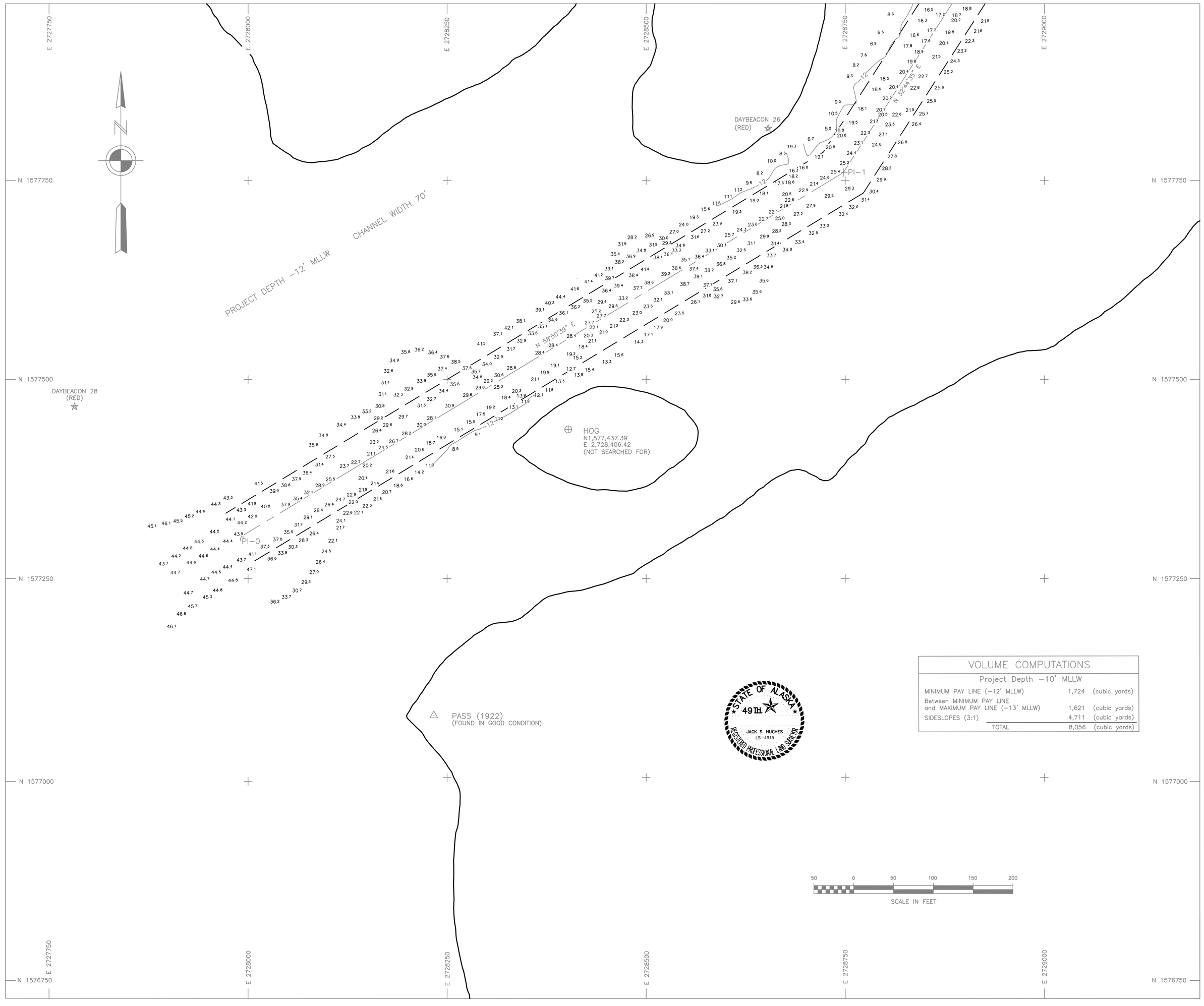
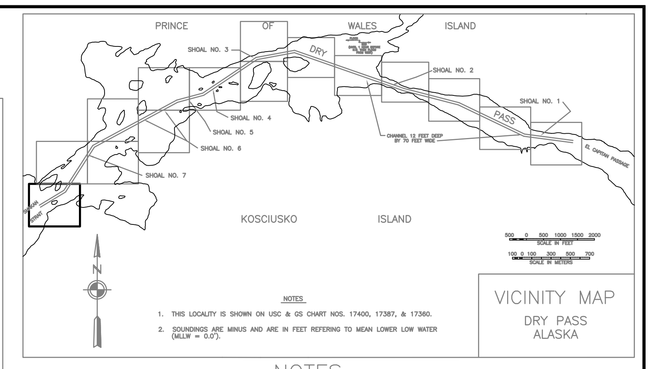
CORPS OF ENGINEERS

U. S. ARMY





VICINITY MAP
DRY PASS
ALASKA

NOTES

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 1, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING "BETSY, 1996" AS N 1,580,863.12, E 2,732,945.98 AND "PASS 1922" AS N 1,577,077.56, E 2,728,233.06.

2. VERTICAL CONTROL IS IN FEET BASED ON MEAN LOWER LOW WATER (MLLW = 0.0'), HOLDING "BETSY, 1996" AT 14.66' AND "PASS 1922" AT 13.68'.

3. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.

4. THE EXISTING PROJECT CONSISTS OF A NAVAGATIION CHANNEL 70' BY 18,310.7', DREDGED TO DEPTHS OF −12' MLLW, BETWEEN SHAKAN STRAIT AND EL CAPITAN PASSAGE.

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LEGEND

- ☆ NAVIGATION AIDS
- ⊕ USACE NON−MONUMENTED CONTROL POINTS
- △ CONTROL MONUMENTS

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
DP−30 TG1 2000	1,579,498.60	2,730,783.52	13.07	DOMED BC
DP−31 2000	1,580,893.14	2,738,894.86	13.37	DOMED BC
PASS 20	1,579,737.60	2,742,932.97	12.12	USACE SBC
LCMF−4	1,581,000.91	2,738,968.15	12.26	BOLT IN ROCK
TERRA−1	1,579,338.76	2,743,655.13	11.75	BOLT IN ROCK
PASS 1922	1,577,077.56	2,728,233.06	13.68	
DP−23 1977	1,578,261.22	2,728,514.83		USACE SBC
DP−22 1977	1,579,437.08	2,729,748.00	13.84	USACE SBC
DP−4 1977	1,581,434.04	2,733,343.31		USACE SBC
DP−5 1977	1,581,485.48	2,732,508.27		USACE SBC
DP−3	1,581,698.80	2,734,721.16		
PASS 11	1,581,774.50	2,734,855.37	9.00	
DP−TG2 2000	1,582,142.60	2,735,443.03	12.99	USACE SBC PREVIOUSLY UNMARKED
DP−24 1977	1,579,670.00	2,732,158.22		USACE SBC
DP−25 1977	1,579,491.43	2,730,845.82		USACE SBC
BETSY 1996	1,580,863.12	2,732,945.98	14.66	3.5" BRASS CAP IN ROCK
PTC	1,580,384.51	2,742,000.09	12.06	PIPE WITH TACK IN CRACK
BENCH MARK 3	1,581,001.30	2,737,113.05	13.48	USCGS BRASS CAP IN ROCK
JO 1996	1,581,013.32	2,738,952.25	13.74	3.5" BRASS CAP IN ROCK
RICK	1,578,757.59	2,729,013.94	14.27	SET 3.5" DOMED BC IN ROCK
DAVE	1,580,939.50	2,739,430.15	33.63	SET 3.5" DOMED BC IN ROCK

CHANNEL CENTER POSITIONS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
PI 0	1,577,302.17	2,727,990.18	PI 6	1,582,013.12	2,735,743.96
PI 1	1,577,760.13	2,728,747.65	PI 7	1,580,909.56	2,739,084.66
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PI 5	1,581,798.91	2,734,585.78			

☆ NAVIGATION AIDS ☆

DESCRIPTION	USGC No.	NORTHING	EASTING
DAYBEACON 2	24785	1,579,527	2,744,280
DAYBEACON 3	24790	1,579,292	2,744,022
DAYBEACON 4	24795	1,579,794	2,742,570
DAYBEACON 5	24800	1,579,646	2,742,357
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DAYBEACON 11	24825	1,581,757	2,734,937
DAYBEACON 13	24830	1,581,562	2,734,481
DAYBEACON 14	24835	1,581,409	2,733,790
DAYBEACON 15	24840	1,581,011	2,733,508
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DAYBEACON 23	24875	1,578,987	2,729,769
DAYBEACON 24	24877	1,578,660	2,729,019
DAYBEACON 25	24880	1,578,460	2,729,314
DAYBEACON 26	24885	1,577,816	2,728,653
DAYBEACON 28	24890	1,577,466	2,727,782

VOLUME COMPUTATIONS

Project Depth −10' MLLW

MINIMUM PAY LINE (−12' MLLW)	1,724	(cubic yards)
Between MINIMUM PAY LINE and MAXIMUM PAY LINE (−13' MLLW)	1,621	(cubic yards)
SIDESLOPES (3:1)	4,711	(cubic yards)
TOTAL	8,056	(cubic yards)

STATE OF ALASKA
49TH
JACK S. HUGHES
LS−4915
REGISTERED PROFESSIONAL LAND SURVEYOR

CONTRACT NO. W911KB−04−D−0007
CONTRACTOR HUGHES & ASSOCIATES
CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: BTH/CSH	DRY PASS, ALASKA
DRAWN: BTH/CSH	DRY PASS
CHECKED: JSH	PROJECT CONDITION SURVEY
SUBMITTED:	APRIL 26−29, 2005

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS−READINESS BRANCH
DATE:

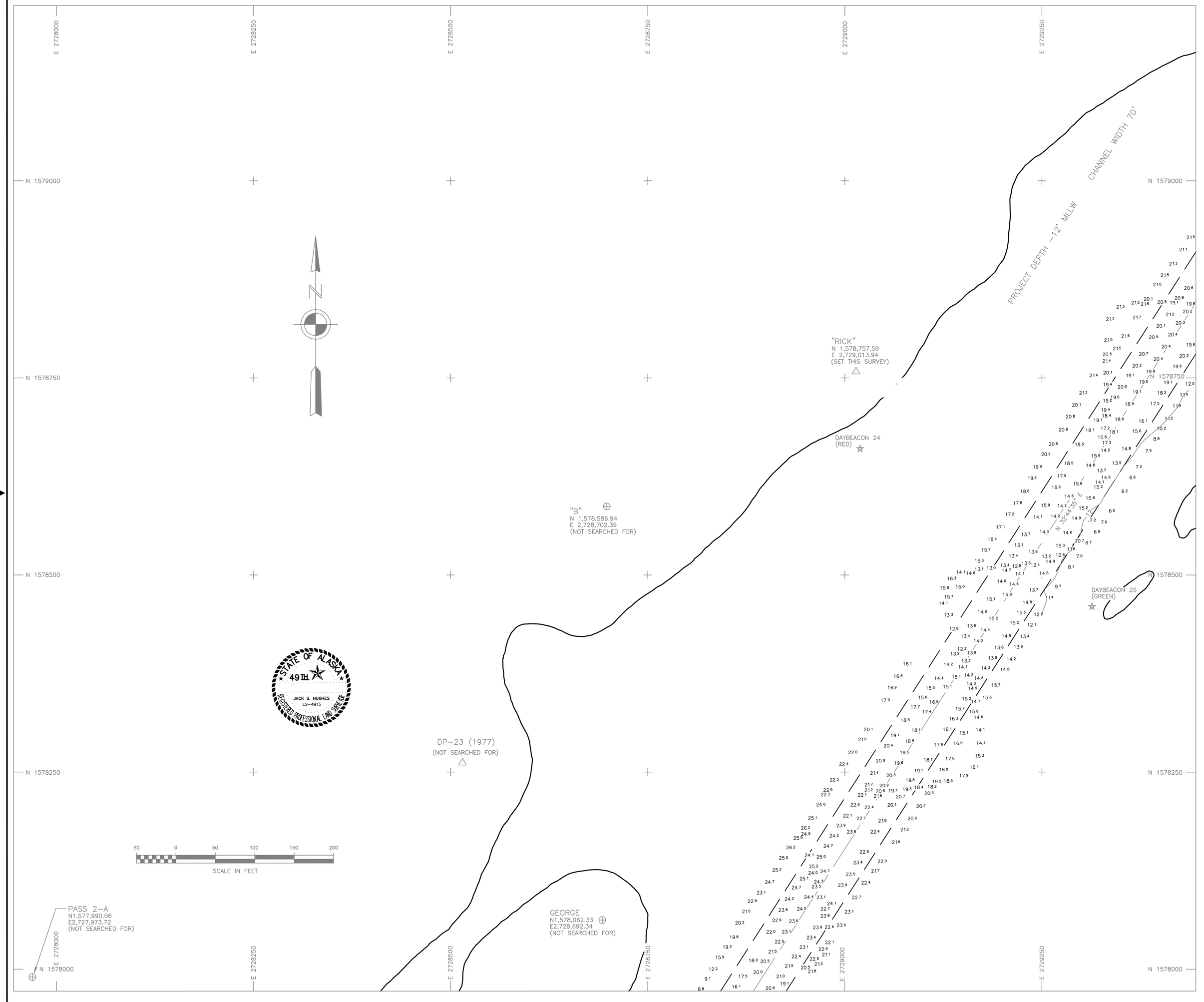
SURVEY NO. 2243−05

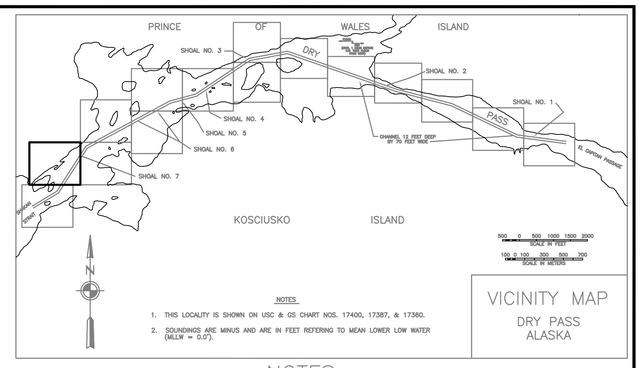
SCALE: 1" = 50'

SHEET 1 OF 15

CORPS OF ENGINEERS

U. S. ARMY





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RECOMMENDED:	APPROVED:	DATE:
PROJECT MANAGER	CHIEF OPERATIONS-READINESS BRANCH	

SURVEY NO. 2243-05

SCALE: 1" = 50'

SHEET 2 OF 15

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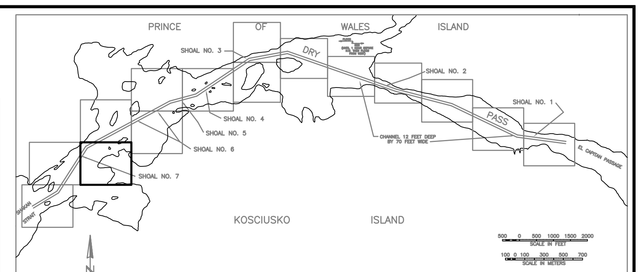

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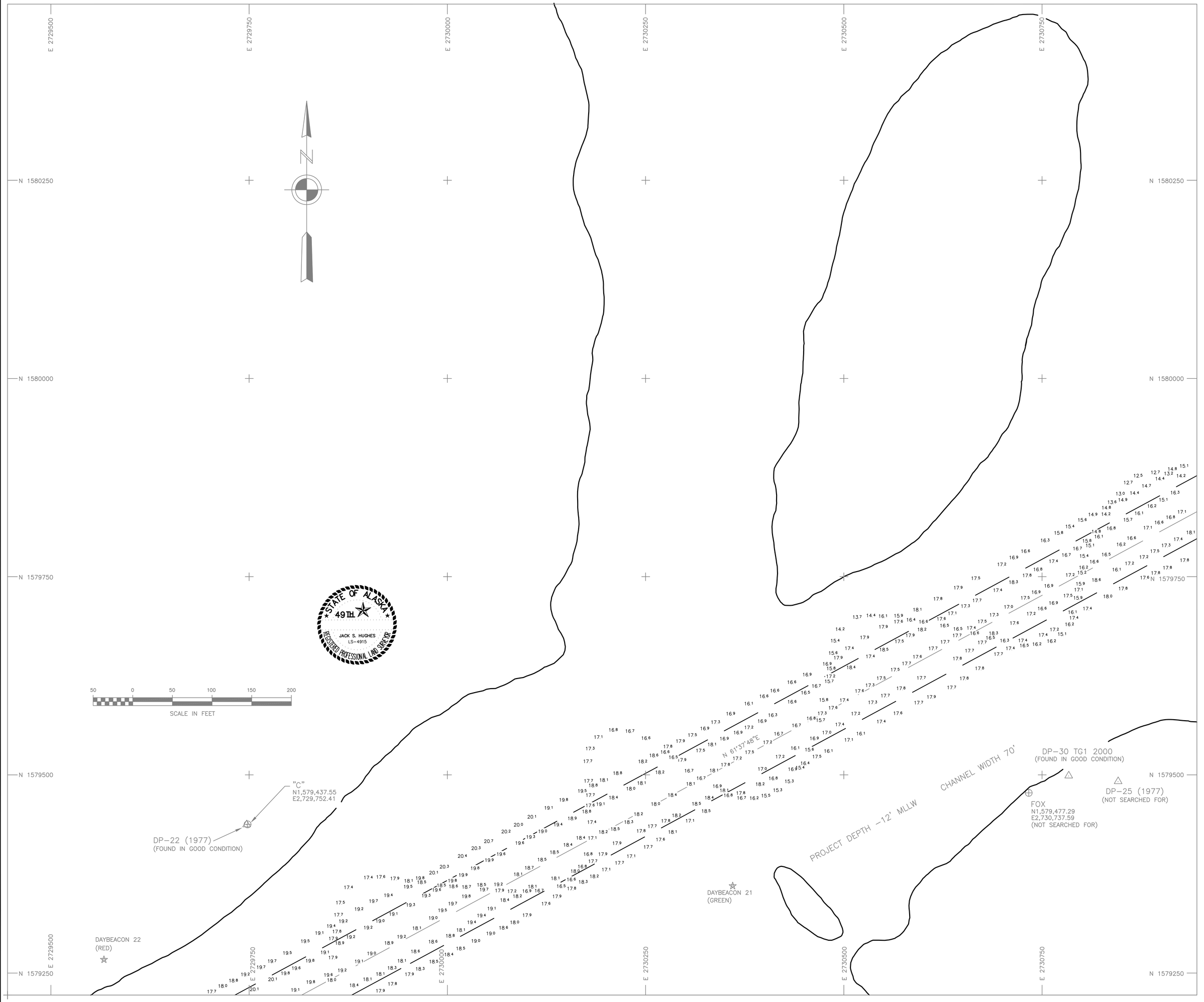

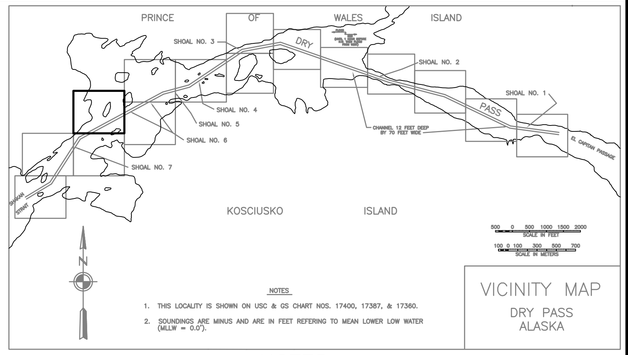

VICINITY MAP
DRY PASS
ALASKA

NOTES

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2. VERTICAL CONTROL IS IN FEET BASED ON MEAN LOWER LOW WATER (MLLW = 0.0'), HOLDING "BETSY, 1996" AT 14.66' AND "PASS 1922" AT 13.68'.

3. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.

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6. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY

LEGEND

- ☆ NAVIGATION AIDS
- ⊕ USACE NON-MONUMENTED CONTROL POINTS
- △ CONTROL MONUMENTS

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
DP-30 TG1 2000	1,579,498.60	2,730,783.52	13.07	DOMED BC
DP-31 2000	1,580,893.14	2,738,894.86	13.37	DOMED BC
PASS 20	1,579,737.60	2,742,932.97	12.12	USACE SBC
LCMF-4	1,581,000.91	2,738,968.15	12.26	BOLT IN ROCK
TERRA-1	1,579,338.76	2,743,655.13	11.75	BOLT IN ROCK
PASS 1922	1,577,077.56	2,728,233.06	13.68	
DP-23 1977	1,578,261.22	2,728,514.83		USACE SBC
DP-22 1977	1,579,437.08	2,729,748.00	13.84	USACE SBC
DP-4 1977	1,581,434.04	2,733,343.31		USACE SBC
DP-5 1977	1,581,485.48	2,732,508.27		USACE SBC
DP-3	1,581,698.80	2,734,721.16		
PASS 11	1,581,774.50	2,734,855.37	9.00	
DP-TG2 2000	1,582,142.60	2,735,443.03	12.99	USACE SBC PREVIOUSLY UNMARKED
DP-24 1977	1,579,670.00	2,732,158.22		USACE SBC
DP-25 1977	1,579,491.43	2,730,845.82		USACE SBC
BETSY 1996	1,580,863.12	2,732,945.98	14.66	3.5" BRASS CAP IN ROCK
PTC	1,580,384.51	2,742,000.09	12.06	PIPE WITH TACK IN CRACK
BENCH MARK 3	1,581,001.30	2,737,113.05	13.48	USCGS BRASS CAP IN ROCK
JO 1996	1,581,013.32	2,738,952.25	13.74	3.5" BRASS CAP IN ROCK
RICK	1,578,757.59	2,729,013.94	14.27	SET 3.5" DOMED BC IN ROCK
DAVE	1,580,939.50	2,739,430.15	33.63	SET 3.5" DOMED BC IN ROCK

CHANNEL CENTER POSITIONS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
PI 0	1,577,302.17	2,727,990.18	PI 6	1,582,013.12	2,735,743.96
PI 1	1,577,760.13	2,728,747.65	PI 7	1,580,909.56	2,739,084.66
PI 2	1,579,124.63	2,729,625.06	PI 8	1,580,502.23	2,740,770.21
PI 3	1,580,499.83	2,732,171.49	PI 9	1,579,579.97	2,742,779.60
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DAYBEACON 2	24785	1,579,527	2,744,280
DAYBEACON 3	24790	1,579,292	2,744,022
DAYBEACON 4	24795	1,579,794	2,742,570
DAYBEACON 5	24800	1,579,646	2,742,357
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DAYBEACON 11	24825	1,581,757	2,734,937
DAYBEACON 13	24830	1,581,562	2,734,481
DAYBEACON 14	24835	1,581,409	2,733,790
DAYBEACON 15	24840	1,581,011	2,733,508
DAYBEACON 16	24845	1,580,872	2,732,991
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DAYBEACON 19	24857	1,580,161	2,731,813
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DAYBEACON 21	24865	1,579,360	2,730,360
DAYBEACON 22	24870	1,579,267	2,729,567
DAYBEACON 23	24875	1,578,987	2,729,769
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CONTRACT NO. W911KB-04-D-0007
CONTRACTOR HUGHES & ASSOCIATES
CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: BTH/CSH
DRAWN: BTH/CSH
CHECKED: JSH
SUBMITTED:

DRY PASS, ALASKA
DRY PASS
PROJECT CONDITION SURVEY
APRIL 26-29, 2005

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS-READINESS BRANCH
DATE:

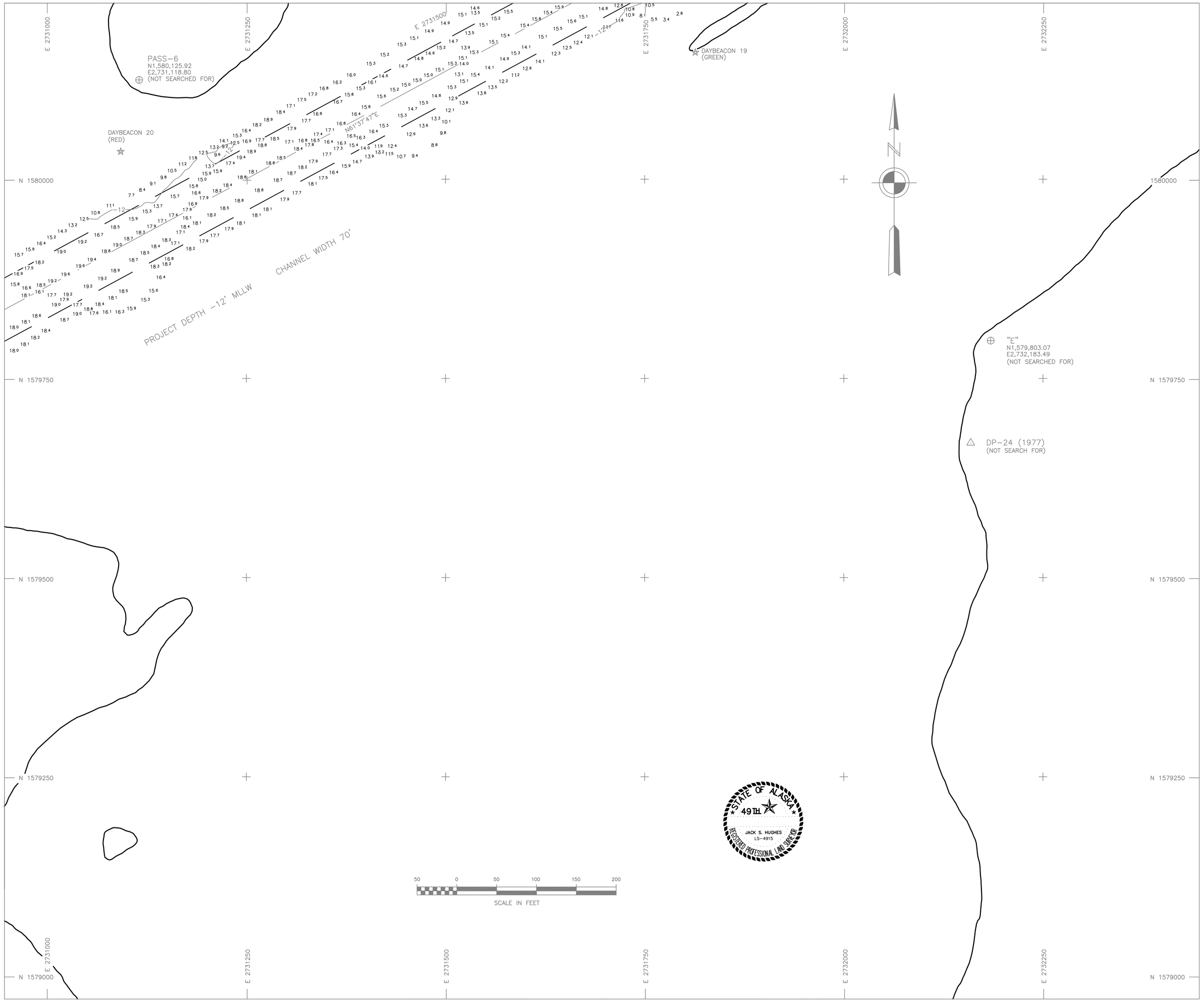
SURVEY NO. 2243-05

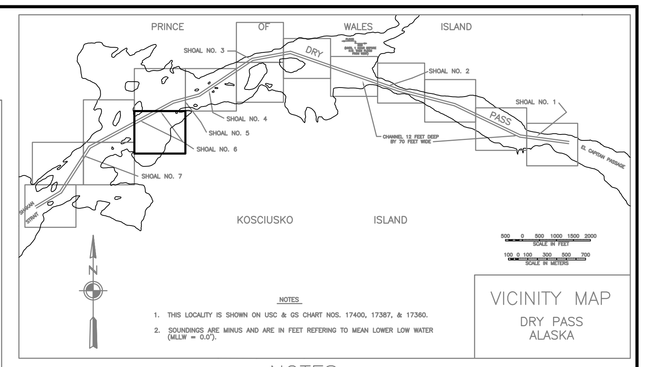
SCALE: 1" = 50'

SHEET 4 OF 15

CORPS OF ENGINEERS

U. S. ARMY





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DRY PASS
ALASKA

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STATE OF ALASKA 49TH
JACK S. HUGHES
LS–4915
REGISTERED PROFESSIONAL LAND SURVEYOR

CONTRACT NO. W911KB–04–D–0007
CONTRACTOR HUGHES & ASSOCIATES
CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: BTH/CSH	DRY PASS, ALASKA
DRAWN: BTH/CSH	DRY PASS
CHECKED: JSH	PROJECT CONDITION SURVEY
SUBMITTED:	APRIL 26–29, 2005

RECOMMENDED:	APPROVED:	DATE:
PROJECT MANAGER	CHIEF OPERATIONS–READINESS BRANCH	

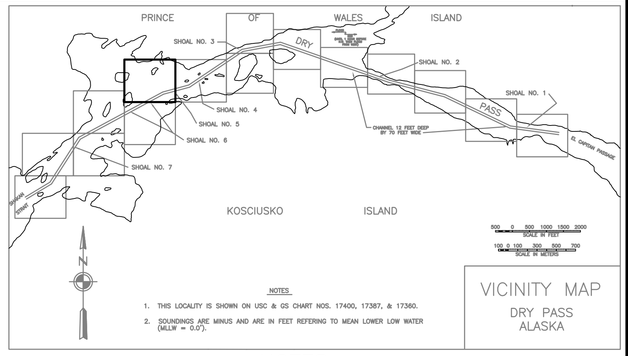
SURVEY NO. 2243–05

SCALE: 1" = 50'

SHEET 5 OF 15

CORPS OF ENGINEERS

U. S. ARMY



VICINITY MAP
DRY PASS
ALASKA

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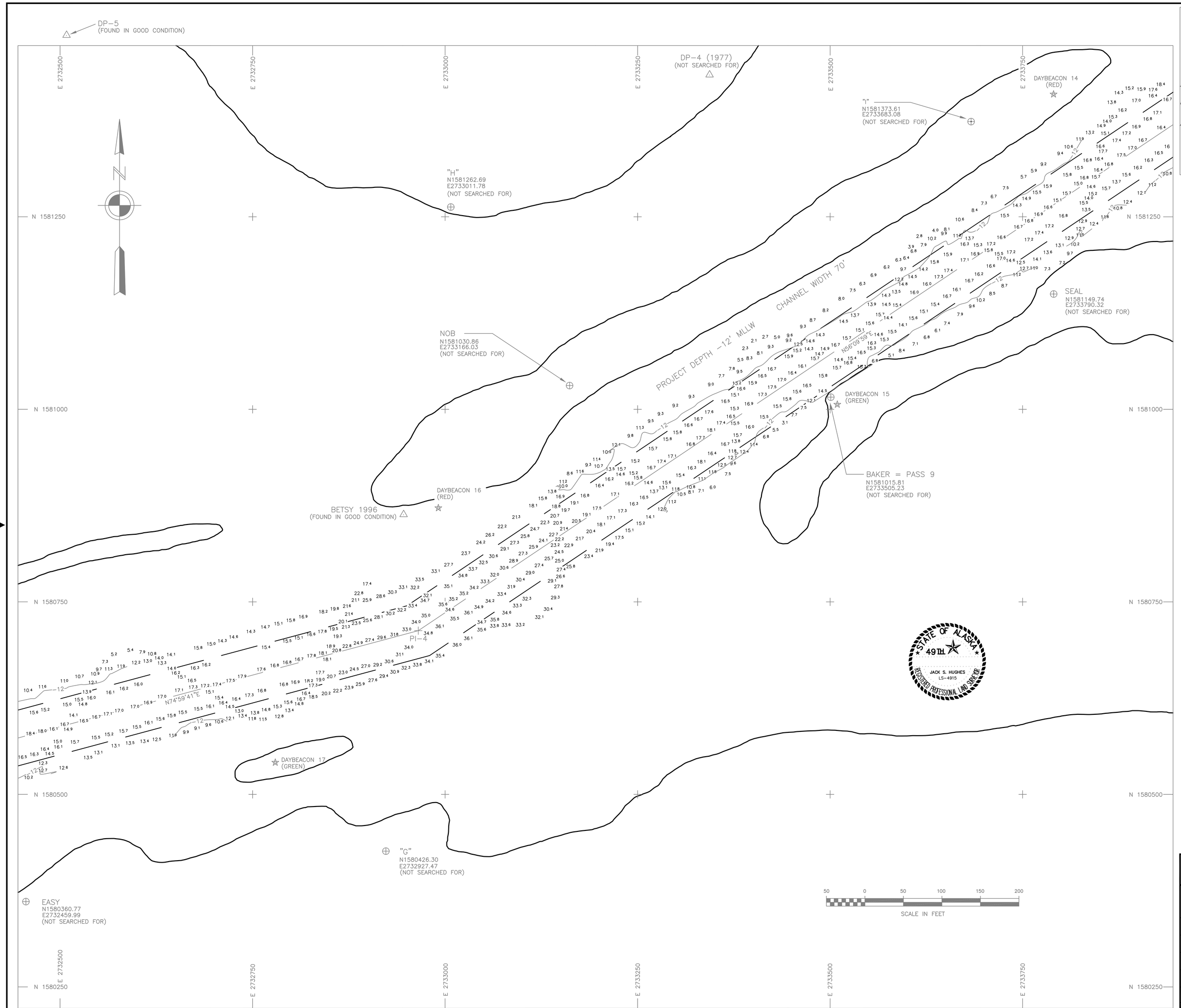

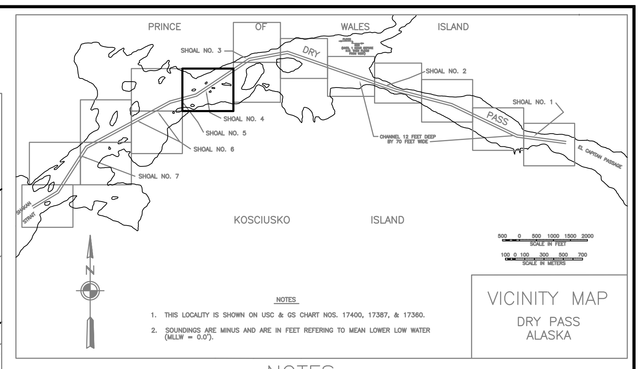

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6. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY

LEGEND

- ☆ NAVIGATION AIDS
- ⊕ USACE NON-MONUMENTED CONTROL POINTS
- △ CONTROL MONUMENTS

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
DP-30 TG1 2000	1,579,498.60	2,730,783.52	13.07	DOMED BC
DP-31 2000	1,580,893.14	2,738,894.86	13.37	DOMED BC
PASS 20	1,579,737.60	2,742,932.97	12.12	USACE SBC
LCMF-4	1,581,000.91	2,738,968.15	12.26	BOLT IN ROCK
TERRA-1	1,579,338.76	2,743,655.13	11.75	BOLT IN ROCK
PASS 1922	1,577,077.56	2,728,233.06	13.68	
DP-23 1977	1,578,261.22	2,728,514.83		USACE SBC
DP-22 1977	1,579,437.08	2,729,748.00	13.84	USACE SBC
DP-4 1977	1,581,434.04	2,733,343.31		USACE SBC
DP-5 1977	1,581,485.48	2,732,508.27		USACE SBC
DP-3	1,581,698.80	2,734,721.16		
PASS 11	1,581,774.50	2,734,855.37	9.00	
DP-TG2 2000	1,582,142.60	2,735,443.03	12.99	USACE SBC PREVIOUSLY UNMARKED
DP-24 1977	1,579,670.00	2,732,158.22		USACE SBC
DP-25 1977	1,579,491.43	2,730,845.82		USACE SBC
BETSY 1996	1,580,863.12	2,732,945.98	14.66	3.5" BRASS CAP IN ROCK
PTC	1,580,384.51	2,742,000.09	12.06	PIPE WITH TACK IN CRACK
BENCH MARK 3	1,581,001.30	2,737,113.05	13.48	USCGS BRASS CAP IN ROCK
JO 1996	1,581,013.32	2,738,952.25	13.74	3.5" BRASS CAP IN ROCK
RICK	1,578,757.59	2,729,013.94	14.27	SET 3.5" DOMED BC IN ROCK
DAVE	1,580,939.50	2,739,430.15	33.63	SET 3.5" DOMED BC IN ROCK

CHANNEL CENTER POSITIONS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
PI 0	1,577,302.17	2,727,990.18	PI 6	1,582,013.12	2,735,743.96
PI 1	1,577,760.13	2,728,747.65	PI 7	1,580,909.56	2,739,084.66
PI 2	1,579,124.63	2,729,625.06	PI 8	1,580,502.23	2,740,770.21
PI 3	1,580,499.83	2,732,171.49	PI 9	1,579,579.97	2,742,779.60
PI 4	1,580,712.58	2,732,965.17	PI 10	1,579,407.64	2,744,265.08
PI 5	1,581,798.91	2,734,585.78			

☆ NAVIGATION AIDS ☆

DESCRIPTION	USGC No.	NORTHING	EASTING
DAYBEACON 2	24785	1,579,527	2,744,280
DAYBEACON 3	24790	1,579,292	2,744,022
DAYBEACON 4	24795	1,579,794	2,742,570
DAYBEACON 5	24800	1,579,646	2,742,357
DAYBEACON 5A	24805	1,580,592	2,739,856
DAYBEACON 6	24810	1,581,446	2,737,843
DAYBEACON 7	24815	1,581,231	2,737,726
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DAYBEACON 13	24830	1,581,562	2,734,481
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DAYBEACON 15	24840	1,581,011	2,733,508
DAYBEACON 16	24845	1,580,872	2,732,991
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DAYBEACON 18	24855	1,580,613	2,732,138
DAYBEACON 19	24857	1,580,161	2,731,813
DAYBEACON 20	24860	1,580,036	2,731,091
DAYBEACON 21	24865	1,579,360	2,730,360
DAYBEACON 22	24870	1,579,267	2,729,567
DAYBEACON 23	24875	1,578,987	2,729,769
DAYBEACON 24	24877	1,578,660	2,729,019
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DAYBEACON 26	24885	1,577,816	2,728,653
DAYBEACON 28	24890	1,577,466	2,727,782

STATE OF ALASKA 49TH
JACK S. HUGHES
LS-4915
REGISTERED PROFESSIONAL LAND SURVEYOR

CONTRACT NO. W911KB-04-D-0007
CONTRACTOR HUGHES & ASSOCIATES
CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: BTH/CSH
DRAWN: BTH/CSH
CHECKED: JSH
SUBMITTED:

DRY PASS, ALASKA
DRY PASS
PROJECT CONDITION SURVEY
APRIL 26-29, 2005

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS-READINESS BRANCH
DATE:

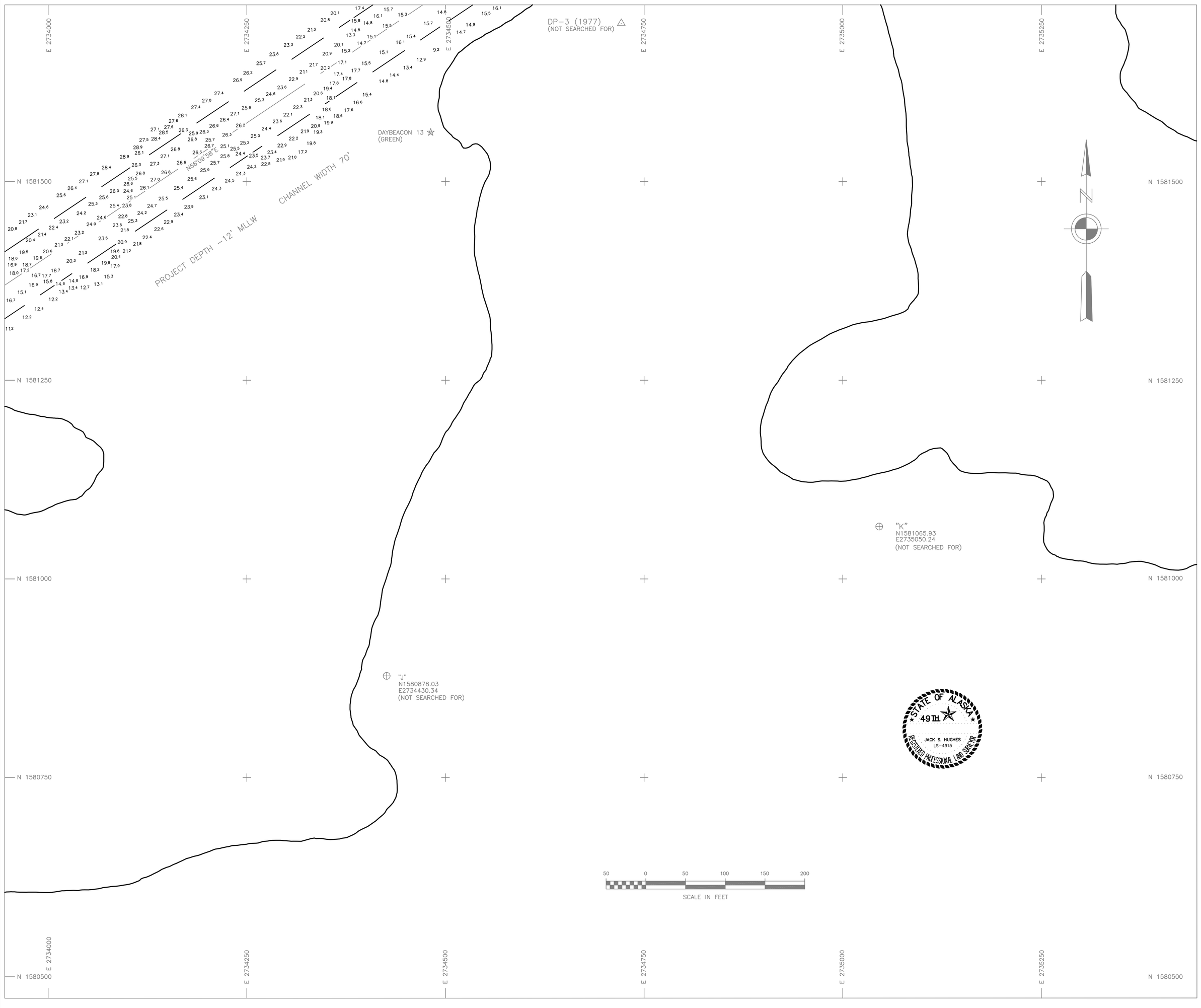
SURVEY NO. 2243-05

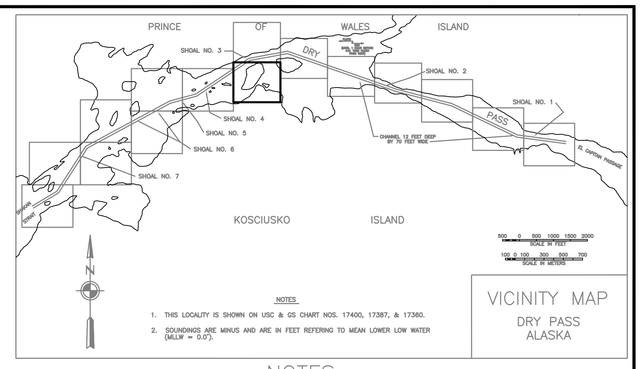
SCALE: 1" = 50'

SHEET 7 OF 15

CORPS OF ENGINEERS

U. S. ARMY





NOTES:
1. THIS LOCALITY IS SHOWN ON USC & GS CHART NOS. 17400, 17387, & 17360.
2. SOUNDINGS ARE MINUS AND ARE IN FEET REFERING TO MEAN LOWER LOW WATER (MLLW = 0.0').

VICINITY MAP
DRY PASS
ALASKA

NOTES

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 1, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING "BETSY, 1996" AS N 1,580,863.12, E 2,732,945.98 AND "PASS 1922" AS N 1,577,077.56, E 2,728,233.06.

2. VERTICAL CONTROL IS IN FEET BASED ON MEAN LOWER LOW WATER (MLLW = 0.0'), HOLDING "BETSY, 1996" AT 14.66' AND "PASS 1922" AT 13.68'.

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LEGEND

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- ⊕ USACE NON-MONUMENTED CONTROL POINTS
- △ CONTROL MONUMENTS

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JACK S. HUGHES
LS-4915
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CONTRACT NO. W911KB-04-D-0007
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CITY PALMER STATE ALASKA

ALASKA DISTRICT
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ANCHORAGE, ALASKA

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DRAWN: BTH/CSH
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DRY PASS, ALASKA
DRY PASS
PROJECT CONDITION SURVEY
APRIL 26-29, 2005

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS-READINESS BRANCH
DATE:

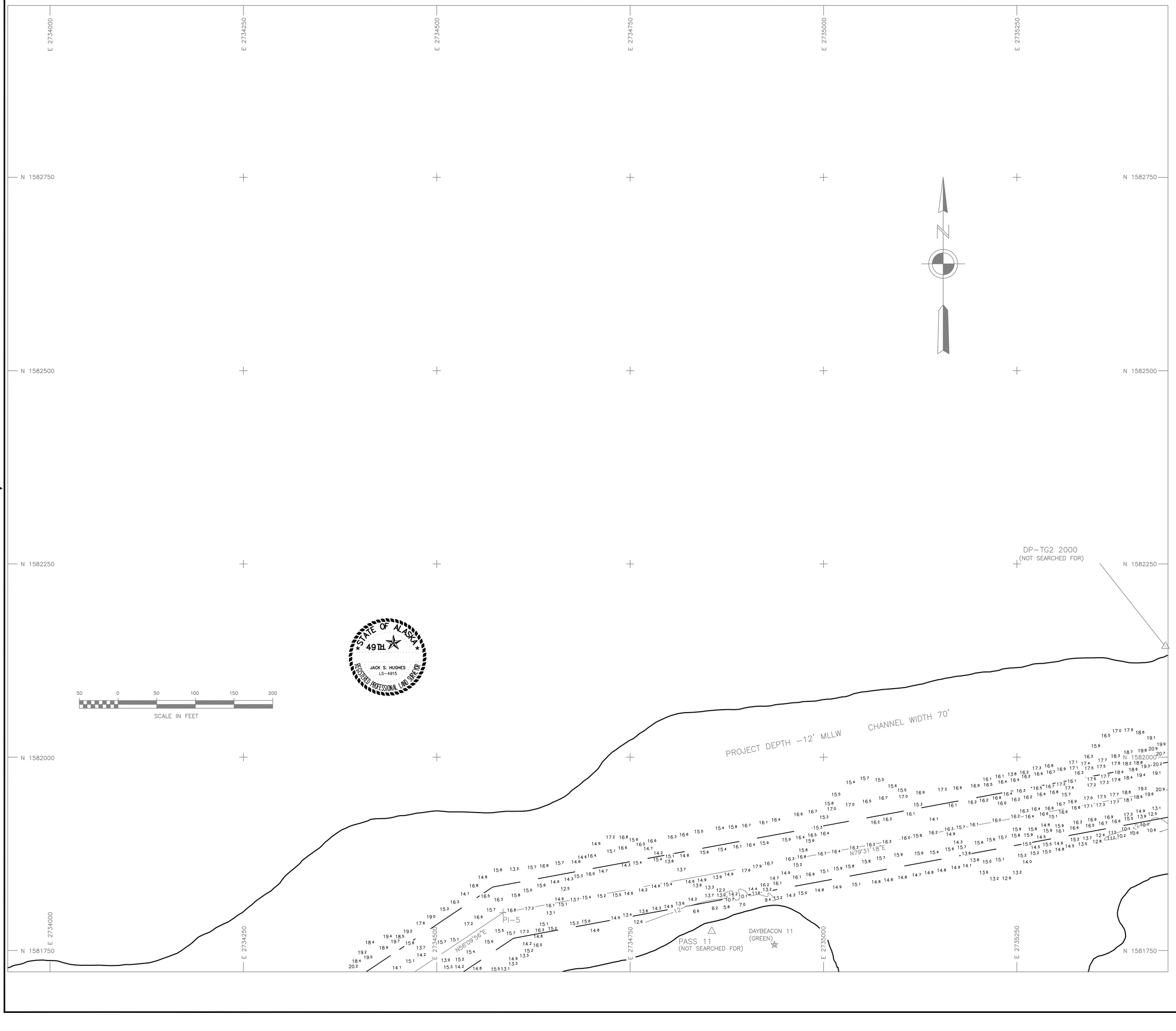
SURVEY NO. 2243-05

SCALE: 1" = 50'

SHEET 8 OF 15

CORPS OF ENGINEERS

U. S. ARMY



STATE OF ALASKA
49TH
JACK S. HUGHES
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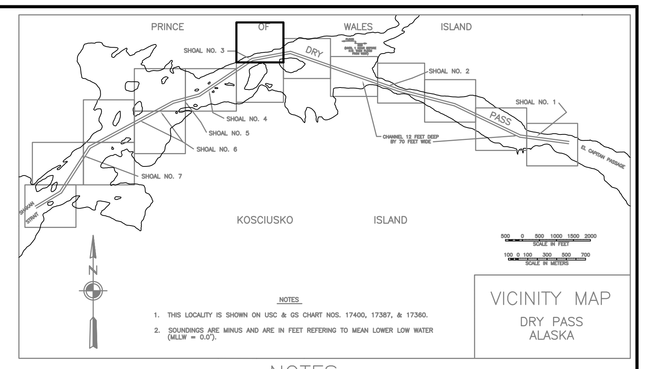
REGISTERED PROFESSIONAL LAND SURVEYOR



VICINITY MAP
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SUBMITTED:	APRIL 26-29, 2005

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SHEET 9 OF 15

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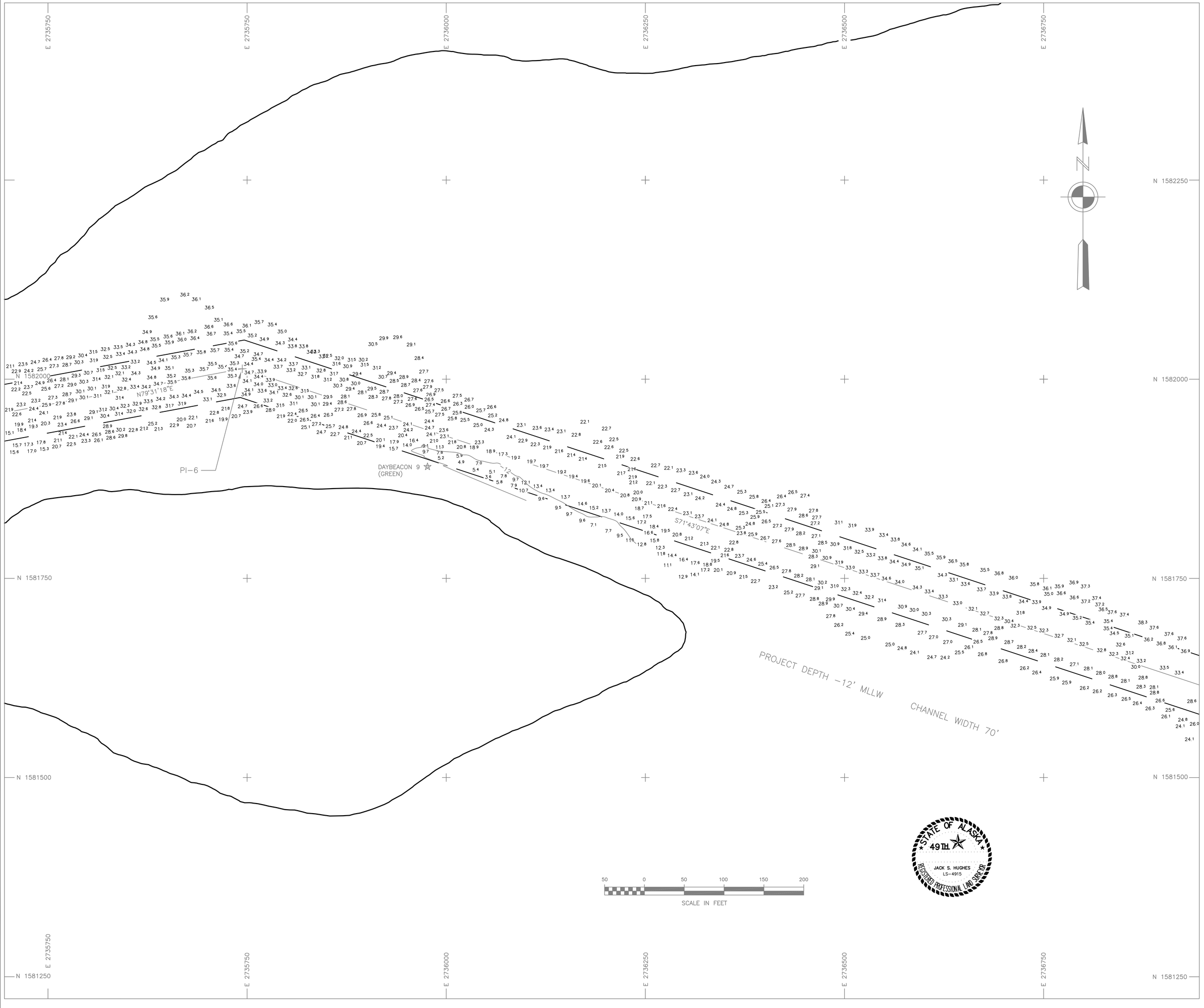

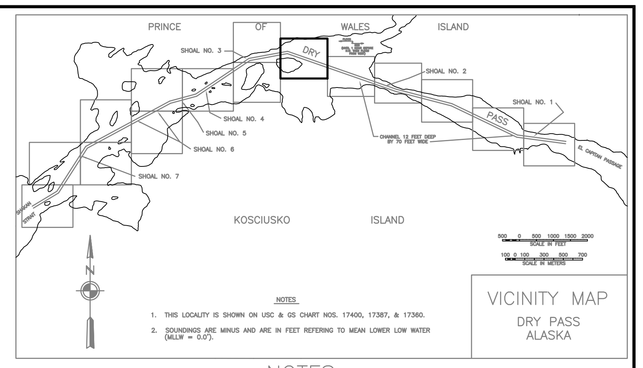

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6. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY

LEGEND

☆ NAVIGATION AIDS

⊕ USACE NON-MONUMENTED CONTROL POINTS

△ CONTROL MONUMENTS

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
DP-30 TG1 2000	1,579,498.60	2,730,783.52	13.07	DOMED BC
DP-31 2000	1,580,893.14	2,738,894.86	13.37	DOMED BC
PASS 20	1,579,737.60	2,742,932.97	12.12	USACE SBC
LCMF-4	1,581,000.91	2,738,968.15	12.26	BOLT IN ROCK
TERRA-1	1,579,338.76	2,743,655.13	11.75	BOLT IN ROCK
PASS 1922	1,577,077.56	2,728,233.06	13.68	
DP-23 1977	1,578,261.22	2,728,514.83		USACE SBC
DP-22 1977	1,579,437.08	2,729,748.00	13.84	USACE SBC
DP-4 1977	1,581,434.04	2,733,343.31		USACE SBC
DP-5 1977	1,581,485.48	2,732,508.27		USACE SBC
DP-3	1,581,698.80	2,734,721.16		
PASS 11	1,581,774.50	2,734,855.37	9.00	
DP-TG2 2000	1,582,142.60	2,735,443.03	12.99	USACE SBC PREVIOUSLY UNMARKED
DP-24 1977	1,579,670.00	2,732,158.22		USACE SBC
DP-25 1977	1,579,491.43	2,730,845.82		USACE SBC
BETSY 1996	1,580,863.12	2,732,945.98	14.66	3.5" BRASS CAP IN ROCK
PTC	1,580,384.51	2,742,000.09	12.06	PIPE WITH TACK IN CRACK
BENCH MARK 3	1,581,001.30	2,737,113.05	13.48	USCGS BRASS CAP IN ROCK
JO 1996	1,581,013.32	2,738,952.25	13.74	3.5" BRASS CAP IN ROCK
RICK	1,578,757.59	2,729,013.94	14.27	SET 3.5" DOMED BC IN ROCK
DAVE	1,580,939.50	2,739,430.15	33.63	SET 3.5" DOMED BC IN ROCK

CHANNEL CENTER POSITIONS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
PI 0	1,577,302.17	2,727,990.18	PI 6	1,582,013.12	2,735,743.96
PI 1	1,577,760.13	2,728,747.65	PI 7	1,580,909.56	2,739,084.66
PI 2	1,579,124.63	2,729,625.06	PI 8	1,580,502.23	2,740,770.21
PI 3	1,580,499.83	2,732,171.49	PI 9	1,579,579.97	2,742,779.60
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PI 5	1,581,798.91	2,734,585.78			

☆ NAVIGATION AIDS ☆

DESCRIPTION	USGC No.	NORTHING	EASTING
DAYBEACON 2	24785	1,579,527	2,744,280
DAYBEACON 3	24790	1,579,292	2,744,022
DAYBEACON 4	24795	1,579,794	2,742,570
DAYBEACON 5	24800	1,579,646	2,742,357
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DAYBEACON 7	24815	1,581,231	2,737,726
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DAYBEACON 11	24825	1,581,757	2,734,937
DAYBEACON 13	24830	1,581,562	2,734,481
DAYBEACON 14	24835	1,581,409	2,733,790
DAYBEACON 15	24840	1,581,011	2,733,508
DAYBEACON 16	24845	1,580,872	2,732,991
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DAYBEACON 18	24855	1,580,613	2,732,138
DAYBEACON 19	24857	1,580,161	2,731,813
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DAYBEACON 21	24865	1,579,360	2,730,360
DAYBEACON 22	24870	1,579,267	2,729,567
DAYBEACON 23	24875	1,578,987	2,729,769
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DAYBEACON 26	24885	1,577,816	2,728,653
DAYBEACON 28	24890	1,577,466	2,727,782

STATE OF ALASKA 49TH
JACK S. HUGHES
LS-4915
REGISTERED PROFESSIONAL LAND SURVEYOR

CONTRACT NO. W911KB-04-D-0007
CONTRACTOR HUGHES & ASSOCIATES
CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: BTH/CSH
DRAWN: BTH/CSH
CHECKED: JSH
SUBMITTED:

DRY PASS, ALASKA
DRY PASS
PROJECT CONDITION SURVEY
APRIL 26-29, 2005

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS-READINESS BRANCH
DATE:

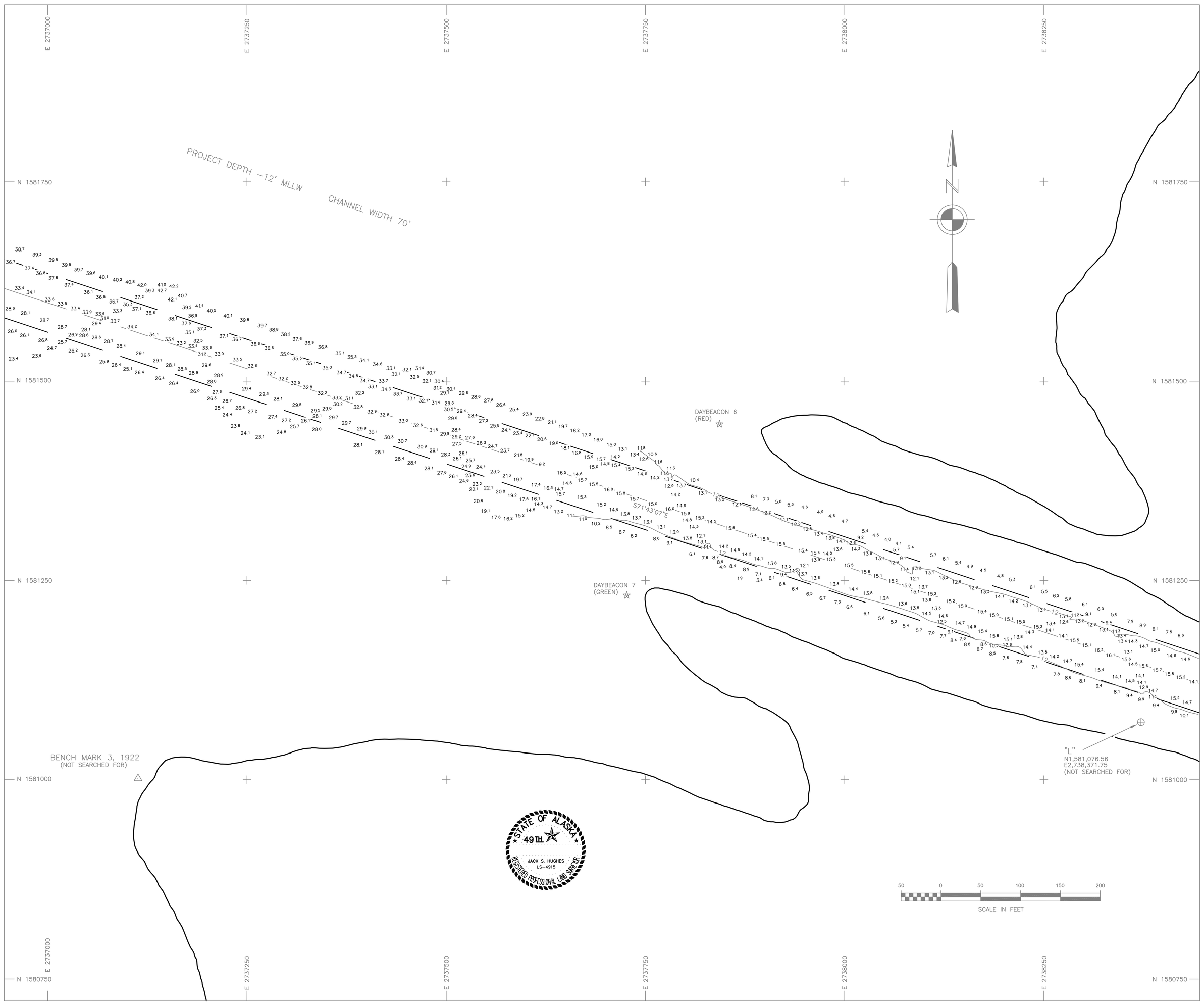
SURVEY NO. 2243-05

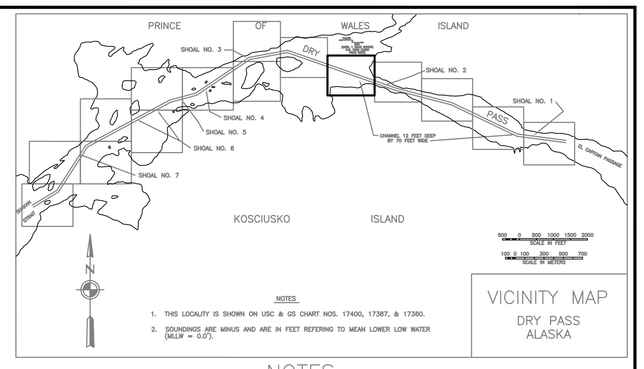
SCALE: 1" = 50'

SHEET 10 OF 15

CORPS OF ENGINEERS

U. S. ARMY





NOTES

1. THIS LOCALITY IS SHOWN ON USC & GS CHART NOS. 17400, 17387, & 17360.
2. SOUNDINGS ARE MINUS AND ARE IN FEET REFERING TO MEAN LOWER LOW WATER (MLLW = 0.0').

VICINITY MAP
DRY PASS
ALASKA

NOTES

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 1, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING "BETSY, 1996" AS N 1,580,863.12, E 2,732,945.98 AND "PASS 1922" AS N 1,577,077.56, E 2,728,233.06.

2. VERTICAL CONTROL IS IN FEET BASED ON MEAN LOWER LOW WATER (MLLW = 0.0'), HOLDING "BETSY, 1996" AT 14.66' AND "PASS 1922" AT 13.68'.

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6. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY

LEGEND

- ☆ NAVIGATION AIDS
- ⊕ USACE NON-MONUMENTED CONTROL POINTS
- △ CONTROL MONUMENTS

CONTROL DATA

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CONTRACT NO. W911KB-04-D-0007

CONTRACTOR HUGHES & ASSOCIATES

CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: BTH/CSH
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CHECKED: JSH
SUBMITTED:

DRY PASS, ALASKA
DRY PASS
PROJECT CONDITION SURVEY
APRIL 26-29, 2005

RECOMMENDED: PROJECT MANAGER

APPROVED: CHIEF OPERATIONS-READINESS BRANCH

DATE:

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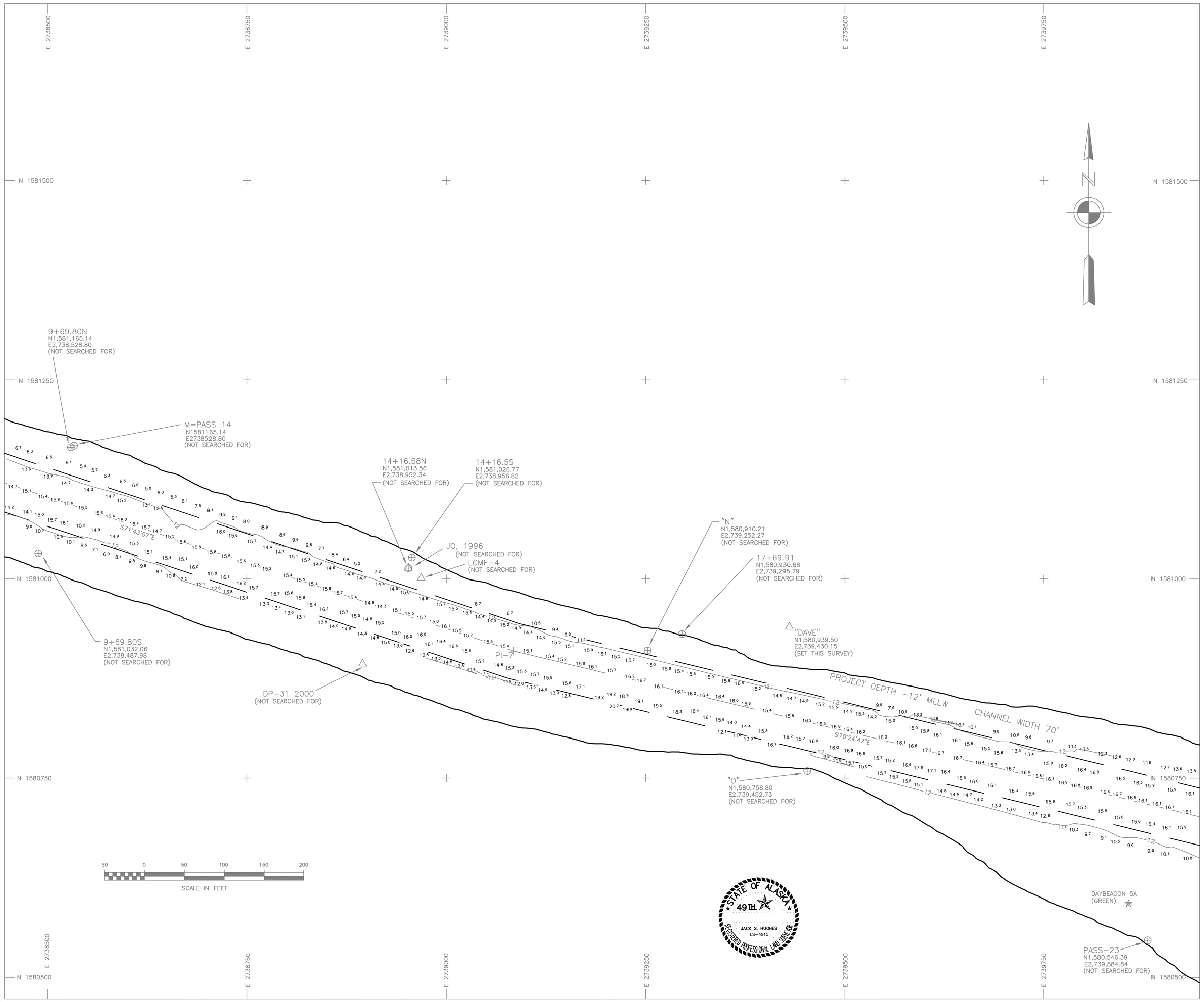
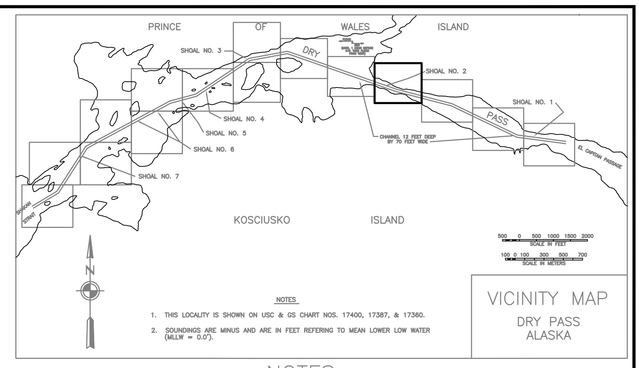
SCALE: 1" = 50'

SHEET 11 OF 15

CORPS OF ENGINEERS

U. S. ARMY





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CONTRACT NO. W911KB-04-D-0007

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CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

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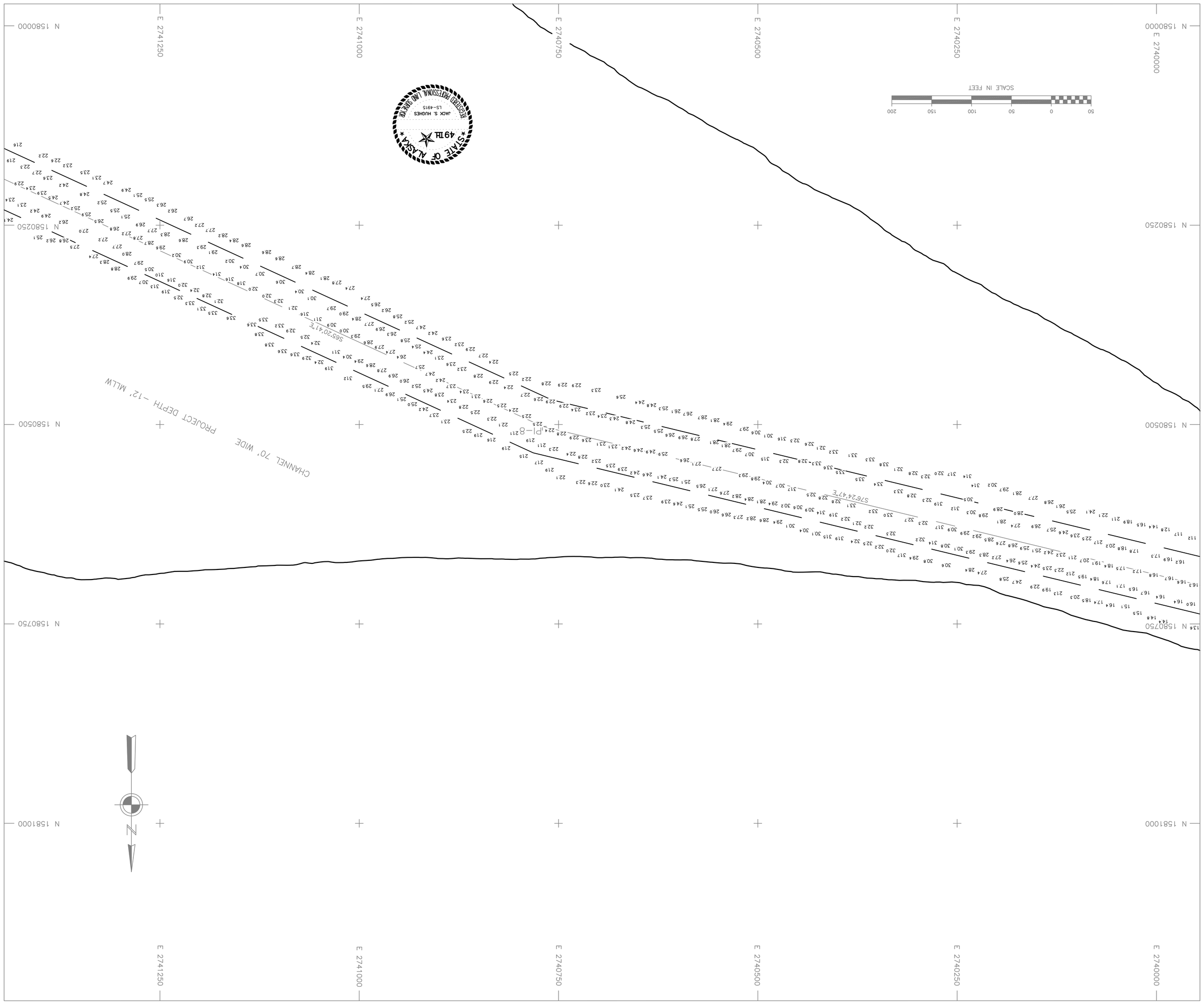
DRAWN: BTH/CSH	DRY PASS
CHECKED: JSH	PROJECT CONDITION SURVEY
SUBMITTED:	APRIL 26-29, 2005

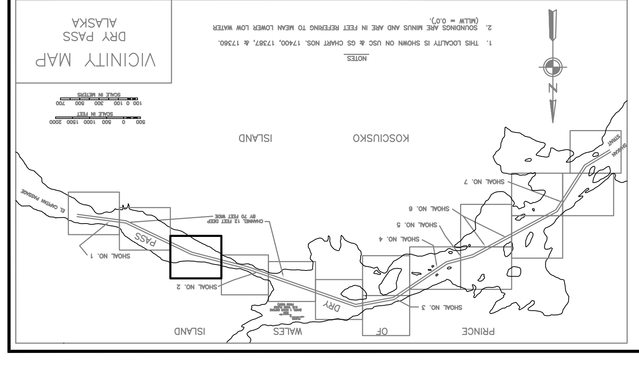
RECOMMENDED: PROJECT MANAGER | APPROVED: CHIEF OPERATIONS-READINESS BRANCH | DATE:

SURVEY NO. 2243-05

SCALE: 1" = 50'

SHEET 12 OF 15





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6. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY

LEGEND

- NAVIGATION AIDS
- USACE NON-MOUUMENTED CONTROL POINTS
- CONTROL MOUUMENTS

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
DP-30 TG1 2000	1,579,498.60	2,730,783.52	13.07	DOMED BC
PASS 20	1,579,737.60	2,742,932.97	12.12	USACE SBC
DP-31 2000	1,580,893.14	2,736,894.86	13.37	DOMED BC
LCMF-4	1,581,000.91	2,743,966.15	12.26	BOLT IN ROCK
TERRA-1	1,579,338.76	2,743,655.13	11.75	BOLT IN ROCK
PASS 1922	1,577,077.56	2,728,233.06	13.68	
DP-23 1977	1,578,261.22	2,728,514.83		USACE SBC
DP-22 1977	1,579,437.08	2,729,748.00	13.84	USACE SBC
DP-4 1977	1,581,436.04	2,733,343.31		USACE SBC
DP-5 1977	1,581,485.48	2,733,508.27		USACE SBC
DP-3	1,581,698.80	2,734,271.16		
PASS 11	1,581,774.50	2,734,855.17	9.00	
DP-102 2000	1,582,142.60	2,735,443.03	12.99	USACE SBC PREVIOUSLY UNMARKED
DP-24 1977	1,579,670.00	2,732,158.22		USACE SBC
DP-25 1977	1,579,491.43	2,730,845.82		USACE SBC
BETSY 1996	1,580,863.12	2,732,946.98	14.66	3.5" BRASS CAP IN ROCK
PTC	1,580,184.51	2,742,000.09	12.06	PIPE WITH TACK IN CRACK
BENCH MARK 3	1,581,001.30	2,737,113.05	13.48	USCGS BRASS CAP IN ROCK
JO 1996	1,581,013.52	2,738,952.25	13.74	3.5" BRASS CAP IN ROCK
RICK	1,579,757.59	2,729,013.94	14.27	SET 3.5" DOMED BC IN ROCK
DAVE	1,580,939.50	2,729,430.15	33.63	SET 3.5" DOMED BC IN ROCK

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
CHANNEL CENTER POSITIONS					
PI 0	1,577,302.17	2,727,990.18	PI 6	1,582,013.12	2,735,743.96
PI 1	1,577,760.13	2,728,747.85	PI 7	1,580,909.56	2,739,084.66
PI 2	1,579,124.63	2,729,625.06	PI 8	1,580,502.23	2,740,770.21
PI 3	1,580,499.83	2,732,171.49	PI 9	1,579,579.97	2,742,779.60
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PI 5	1,581,798.91	2,734,585.78			

DESCRIPTION	USGC No.	NORTHING	EASTING
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DAYBEACON 3	24790	1,579,292	2,744,022
DAYBEACON 4	24795	1,579,794	2,742,570
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DAYBEACON 7	24815	1,581,231	2,737,726
DAYBEACON 9	24820	1,581,890	2,735,976
DAYBEACON 11	24825	1,581,757	2,734,837
DAYBEACON 13	24830	1,581,562	2,734,481
DAYBEACON 14	24835	1,581,409	2,733,790
DAYBEACON 15	24840	1,581,011	2,733,508
DAYBEACON 16	24845	1,580,872	2,732,991
DAYBEACON 17	24850	1,580,541	2,732,779
DAYBEACON 18	24855	1,580,613	2,732,138
DAYBEACON 19	24857	1,580,161	2,731,813
DAYBEACON 20	24860	1,580,036	2,731,091
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DAYBEACON 22	24870	1,579,267	2,729,567
DAYBEACON 23	24875	1,578,987	2,729,769
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DAYBEACON 25	24880	1,578,460	2,729,314
DAYBEACON 26	24885	1,577,816	2,728,653
DAYBEACON 28	24890	1,577,466	2,727,782

CONTRACTOR HUGHES & ASSOCIATES — CONTRACT NO. W91KB-04-D-0007
CITY PALMER — STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED:	BTH/CSH
DRAWN:	BTH/CSH
CHECKED:	BTH/CSH
SUBMITTED:	JSH

DRY PASS, ALASKA
DRY PASS
PROJECT CONDITION SURVEY
APRIL 26-29, 2005

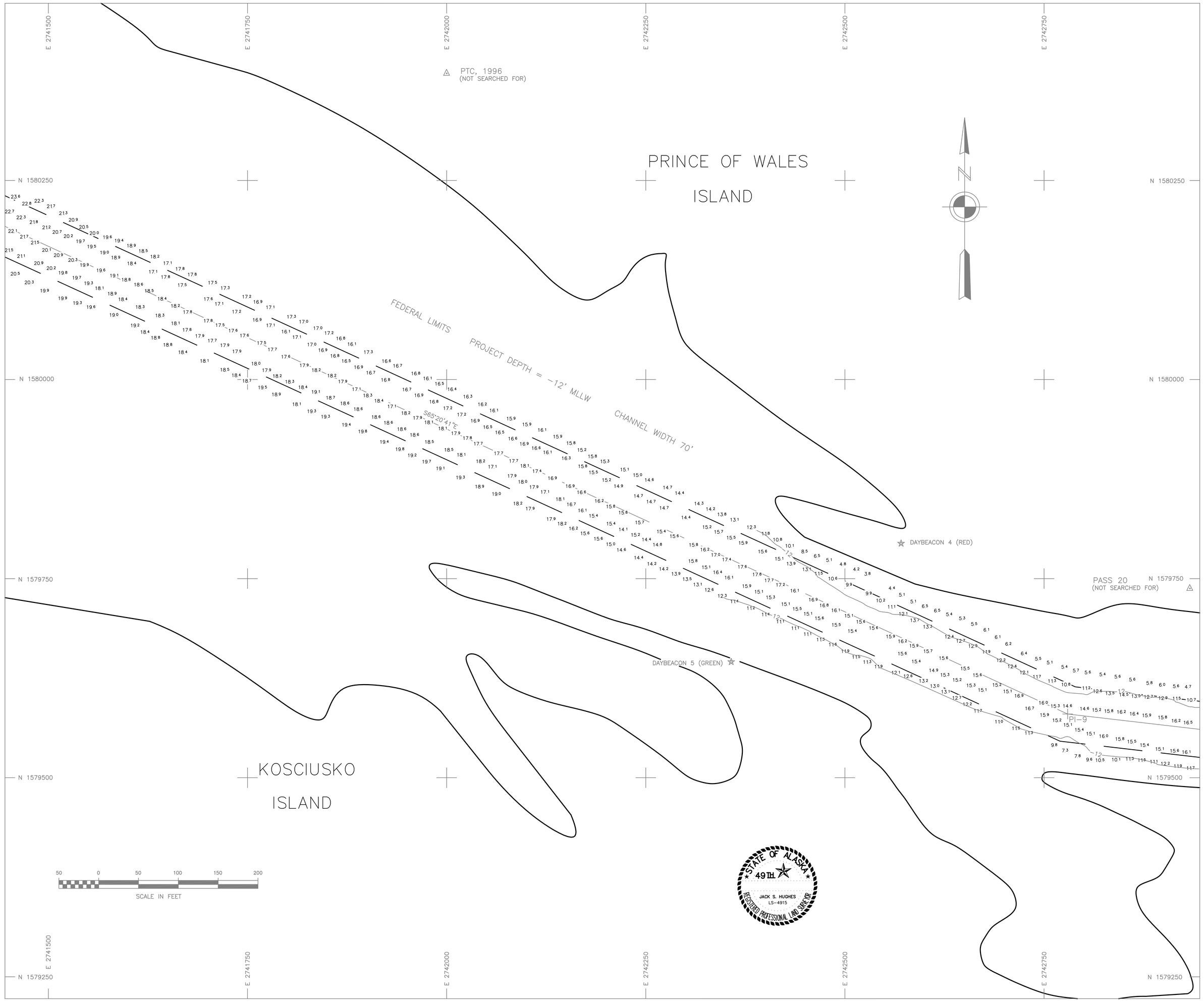
RECOMMENDED: PROJECT MANAGER — APPROVED: CHIEF OPERATIONS-REAGRDS BRANCH — DATE:

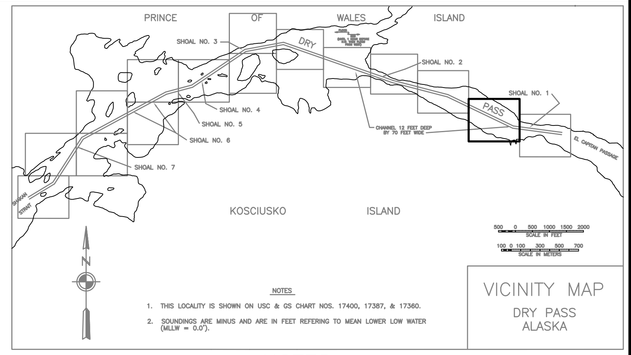
SURVEY NO. 2243-05
SCALE: 1" = 50'
SHEET 13 OF 15

CORPS OF ENGINEERS — U. S. ARMY

CORPS OF ENGINEERS

U. S. ARMY





VICINITY MAP
DRY PASS
ALASKA

NOTES

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 1, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING "BETSY, 1996" AS N 1,580,863.12, E 2,732,945.98 AND "PASS 1922" AS N 1,577,077.56, E 2,728,233.06.

2. VERTICAL CONTROL IS IN FEET BASED ON MEAN LOWER LOW WATER (MLLW = 0.0'), HOLDING "BETSY, 1996" AT 14.66' AND "PASS 1922" AT 13.68'.

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6. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY

LEGEND

- ☆ NAVIGATION AIDS
- ⊕ USACE NON-MONUMENTED CONTROL POINTS
- △ CONTROL MONUMENTS

CONTROL DATA

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CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
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CONTRACT NO. W911KB-04-D-0007

CONTRACTOR HUGHES & ASSOCIATES

CITY PALMER STATE ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

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DRAWN: BTH/CSH	DRY PASS
CHECKED: JSH	PROJECT CONDITION SURVEY
SUBMITTED:	APRIL 26-29, 2005

RECOMMENDED: PROJECT MANAGER

APPROVED: CHIEF OPERATIONS-READINESS BRANCH

DATE:

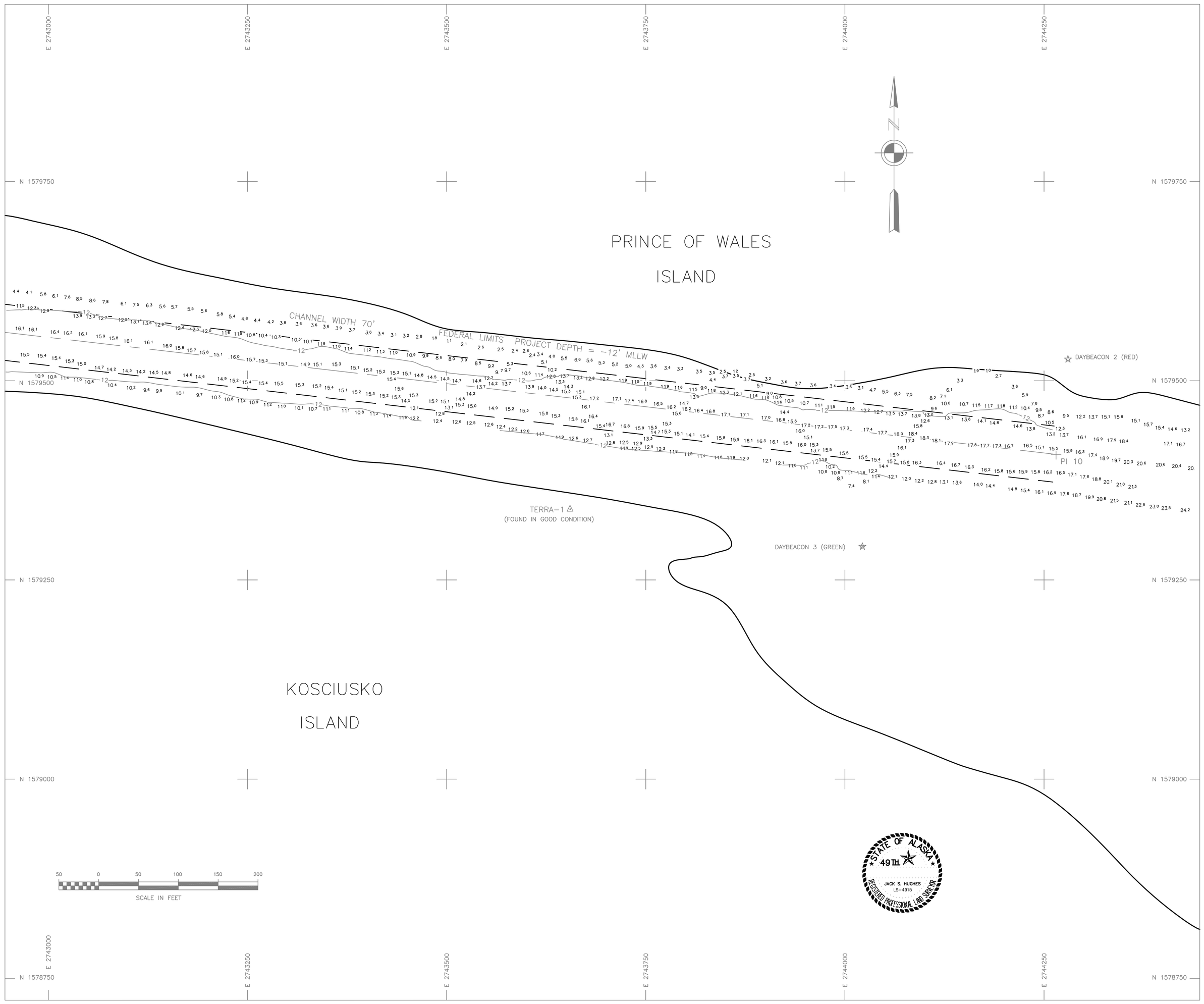
SURVEY NO. 2243-05

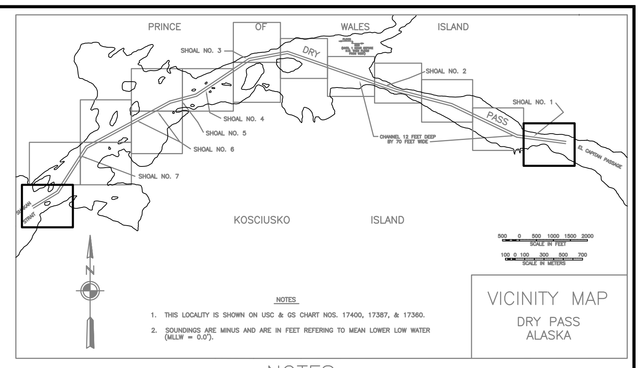
SCALE: 1" = 50'

SHEET 14 OF 15

CORPS OF ENGINEERS

U. S. ARMY





NOTES

1. THIS LOCALITY IS SHOWN ON USC & GS CHART NOS. 17400, 17387, & 17360.
2. SOUNDINGS ARE MINUS AND ARE IN FEET REFERING TO MEAN LOWER LOW WATER (MLLW = 0.0').

VICINITY MAP
DRY PASS
ALASKA

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STATE OF ALASKA 49TH
JACK S. HUGHES
LS-4915
REGISTERED PROFESSIONAL LAND SURVEYOR

CONTRACT NO. W911KB-04-D-0007
CONTRACTOR HUGHES & ASSOCIATES
CITY PALMER STATE ALASKA

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SHEET 15 OF 15