

PURPOSE OF PROJECT:  
PROPOSED ACCESS ROAD

WATER BODIES:  
LYNN CANAL AND  
BERNERS BAY

## LOCATION AND VICINITY MAPS

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

## JUNEAU ACCESS IMPROVEMENTS

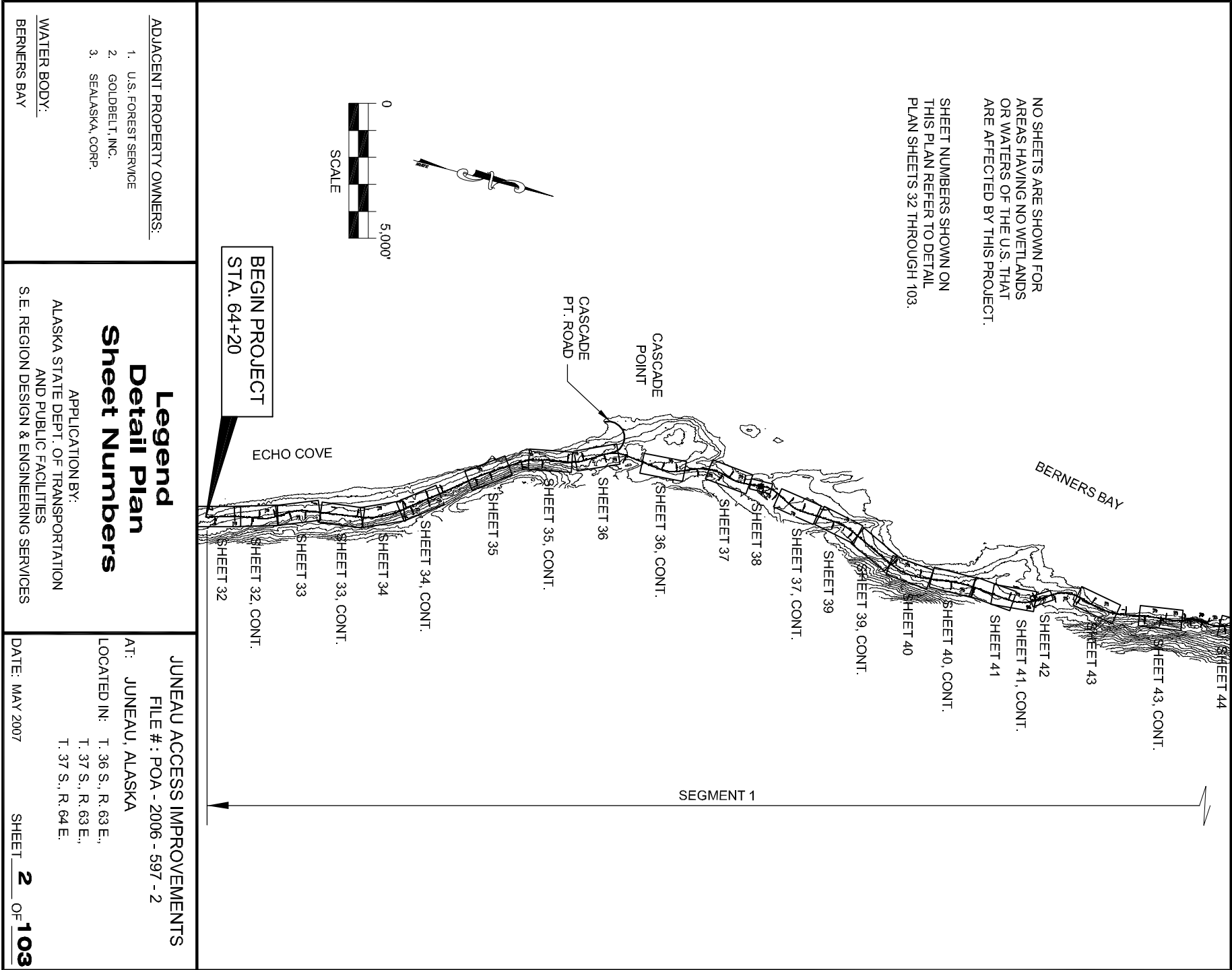
FILE # : POA - 2006 - 597 - 2

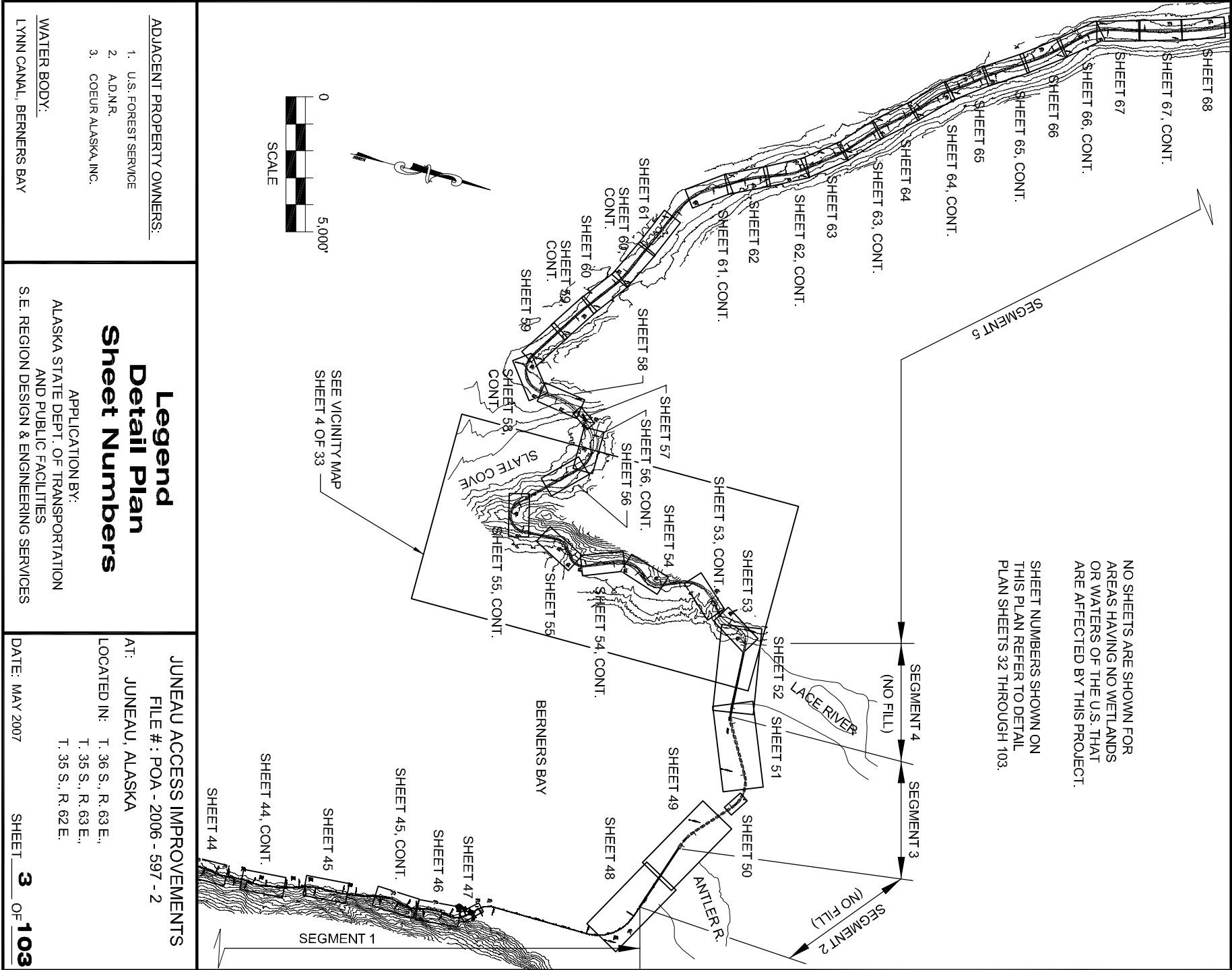
AT: JUNEAU, ALASKA & HAINES, ALASKA

LOCATED IN: T. 31 S. TO T. 37 S. & R. 60 E. TO R. 64 E.

DATE: FEBRUARY, 2006

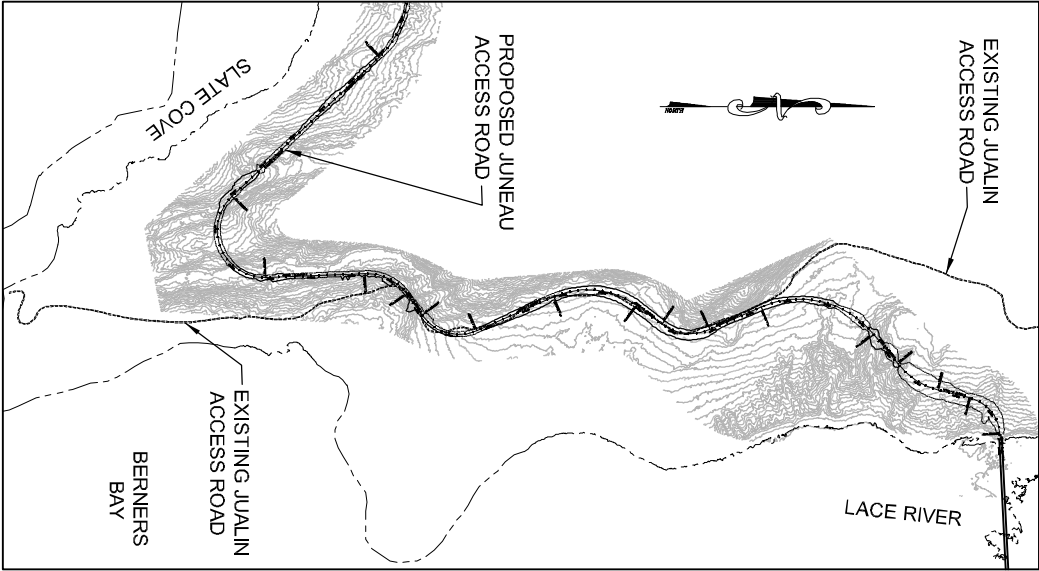
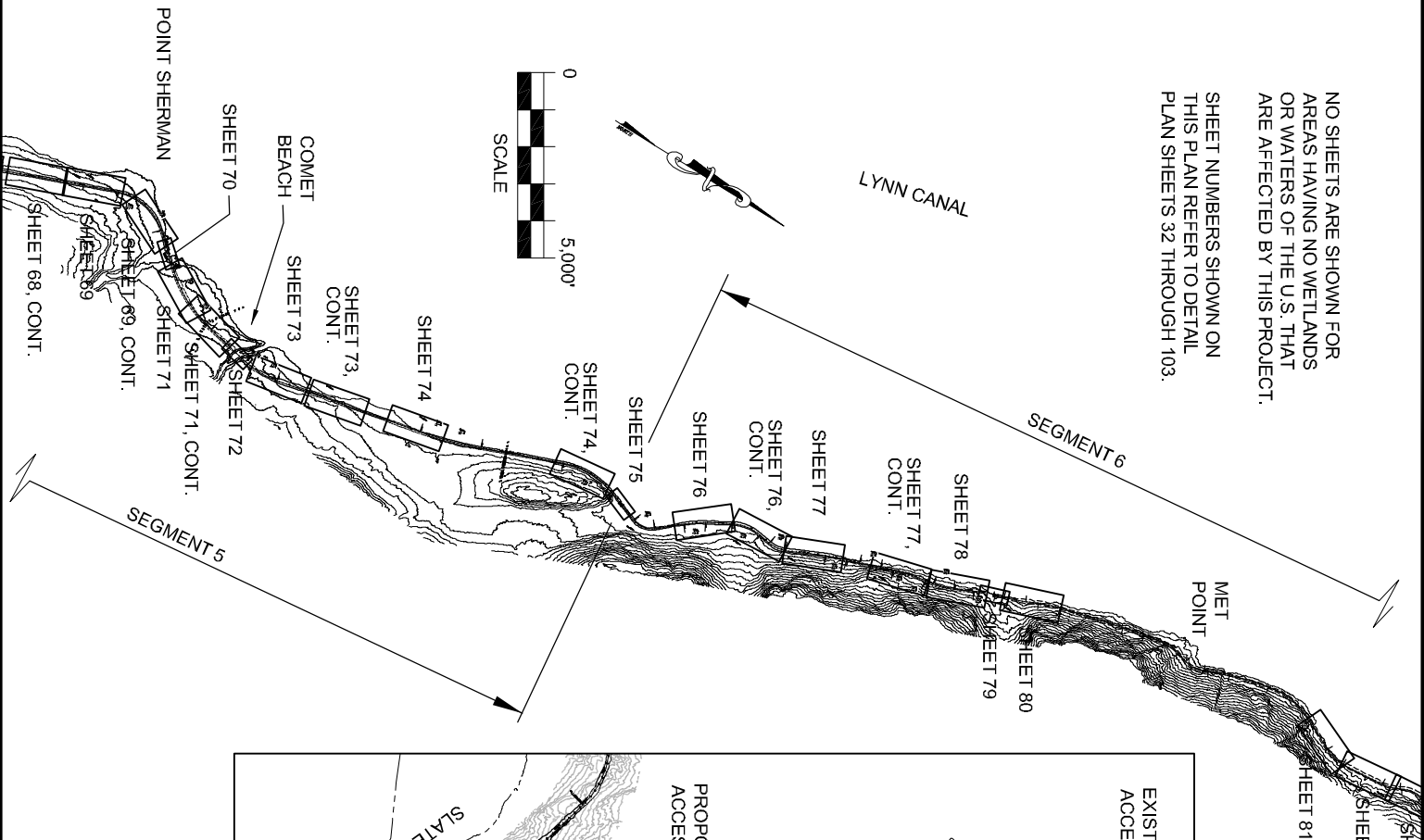
SHEET 1 OF 103





NO SHEETS ARE SHOWN FOR  
AREAS HAVING NO WETLANDS  
OR WATERS OF THE U.S. THAT  
ARE AFFECTED BY THIS PROJECT.

SHEET NUMBERS SHOWN ON  
THIS PLAN REFER TO DETAIL  
PLAN SHEETS 32 THROUGH 103.



VICINITY MAP FOR ROADS

ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE
2. A.D.N.R.
3. COEUR ALASKA, INC.

WATER BODY:

LYNN CANAL

Legend  
Detail Plan  
Sheet Numbers

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
FILE # : POA - 2006 - 597 - 2

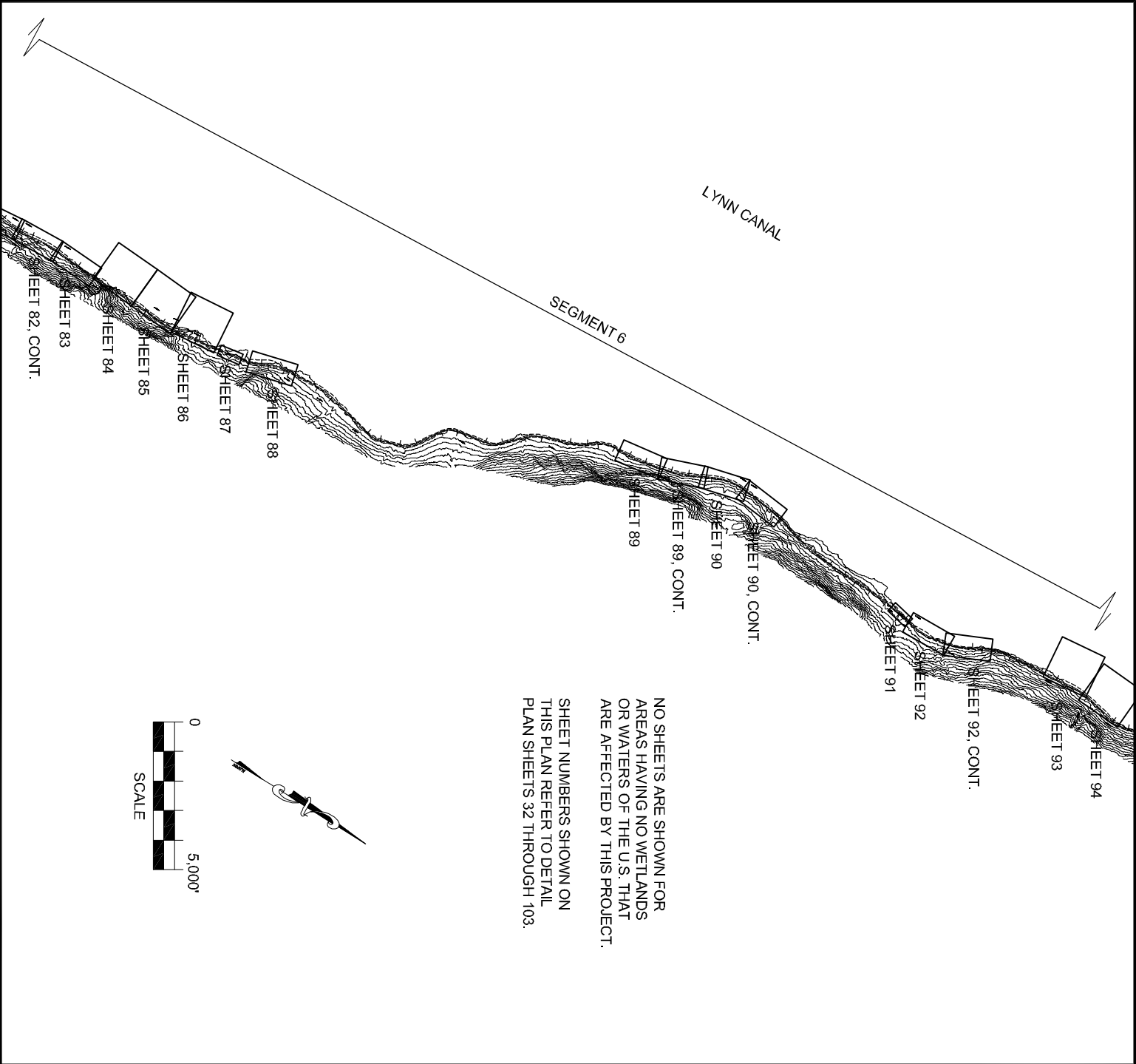
AT: JUNEAU, ALASKA

LOCATED IN: T. 34 S., R. 61 E.,  
T. 34 S., R. 62 E.,  
T. 35 S., R. 62 E.,  
T. 33 S., R. 61 E.

DATE: MAY 2007

SHEET 4 OF 103





**ADJACENT PROPERTY OWNERS:**

1. U.S. FOREST SERVICE
2. A.D.N.R.

**WATER BODY:**

LYNN CANAL

**Legend  
Detail Plan  
Sheet Numbers**

**APPLICATION BY:**

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

**JUNEAU ACCESS IMPROVEMENTS**

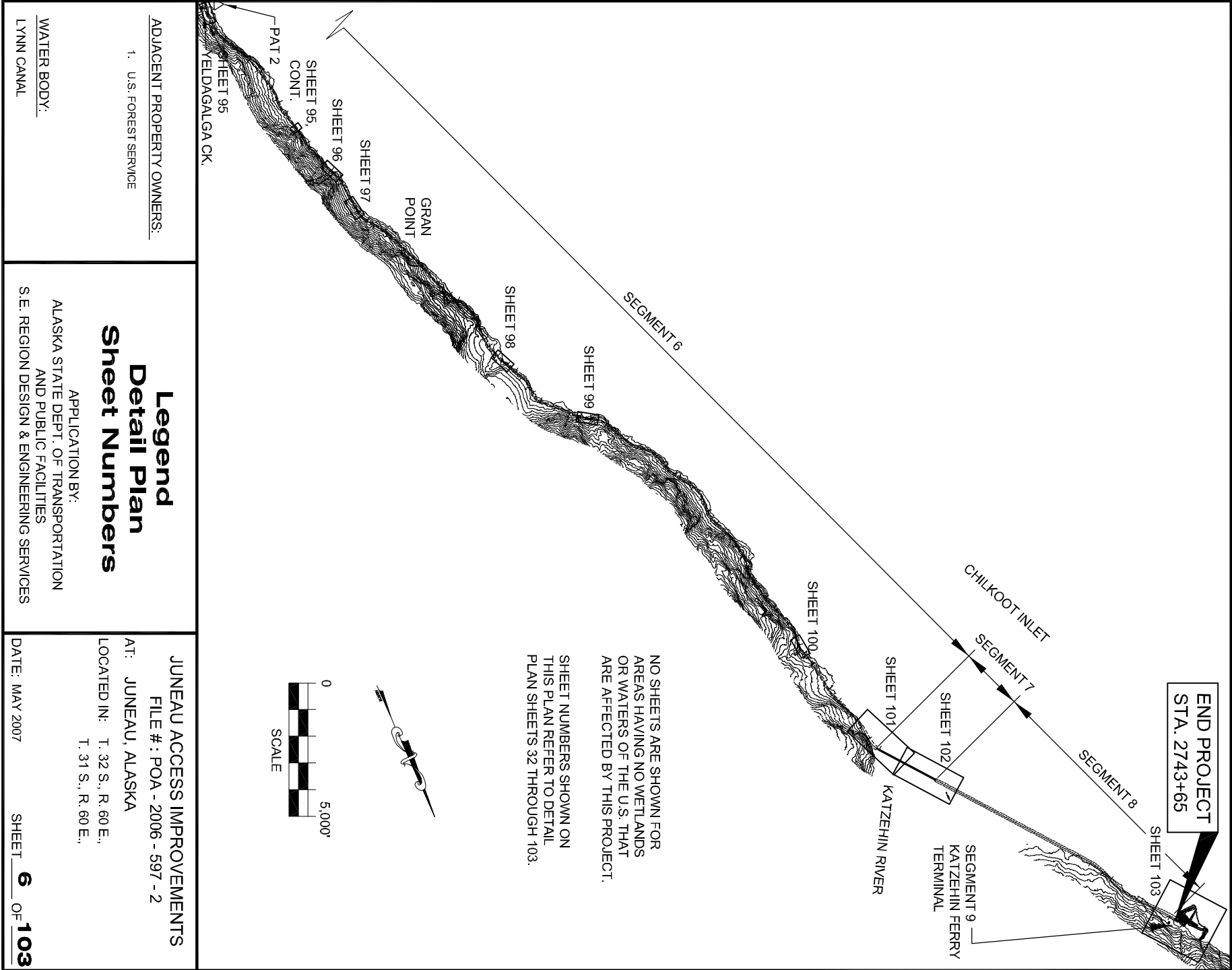
FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: T. 33 S., R. 61 E.,  
T. 32 S., R. 61 E.,

DATE: MAY 2007

SHEET **5** OF **103**



**ADJACENT PROPERTY OWNERS:**

1. U.S. FOREST SERVICE AND OTHERS, VARIES

**WATER BODIES:**

LYNN CANAL AND BERNERS BAY

# **Typical Roadway Section**

APPLICATION BY:

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

**JUNEAU ACCESS IMPROVEMENTS**

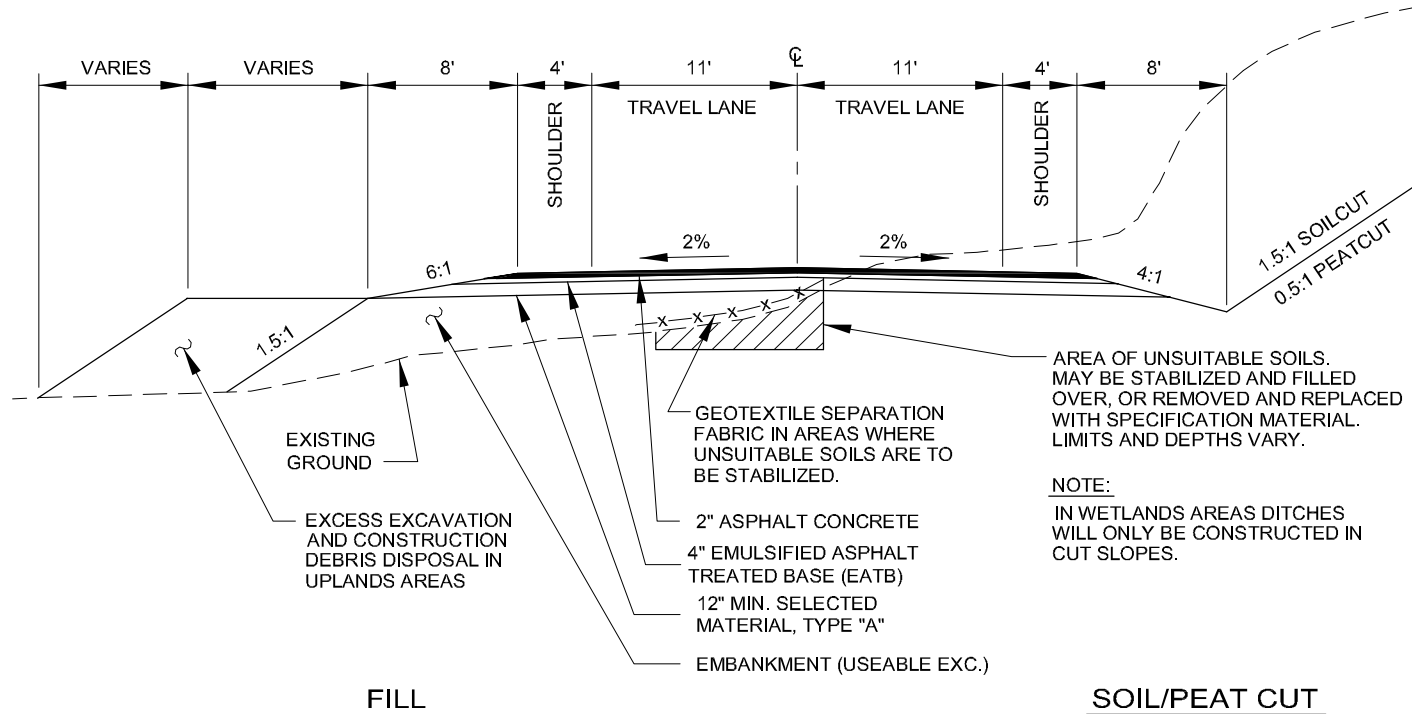
FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

DATE: FEBRUARY, 2006

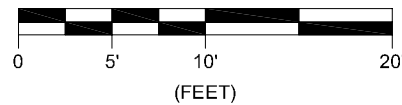
SHEET **7** OF **103**

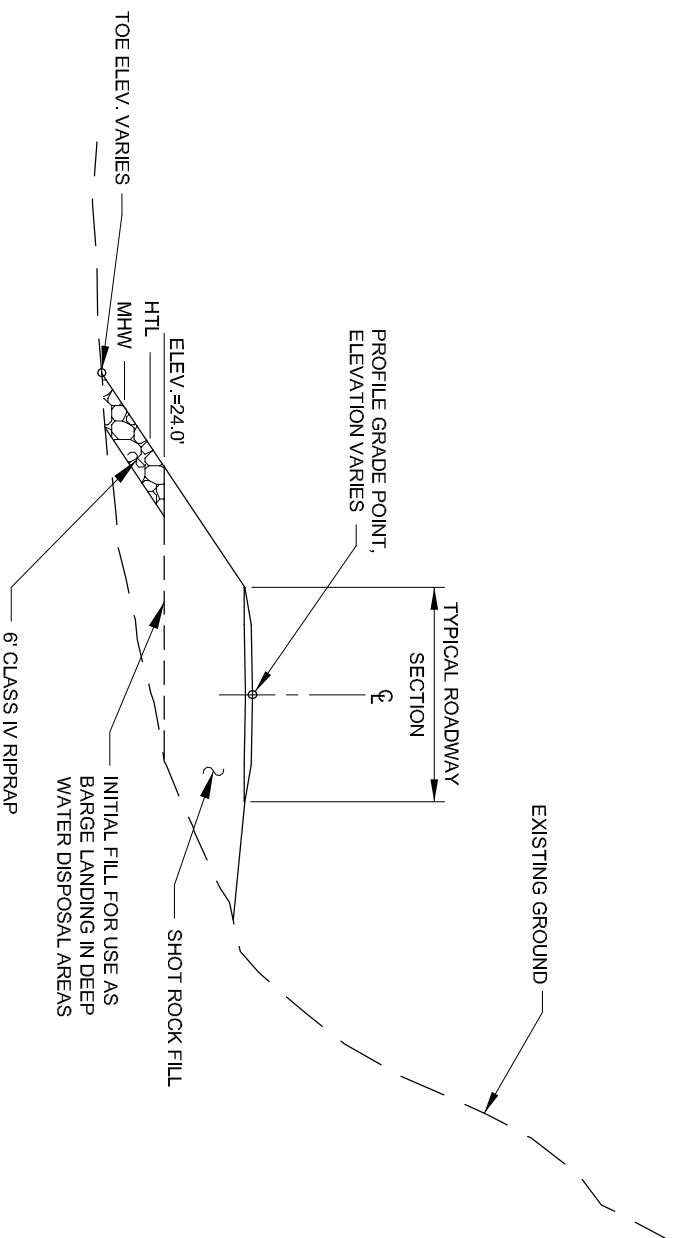


## **TYPICAL ROADWAY SECTION**

CUT AND FILL TYPICAL BOTH SIDES OF ROADWAY

SCALE





## TIDELANDS FILL TYPICAL

NOTE:  
FOR ALL DRAWINGS:  
HIGH TIDE LINE (HTL) = 21.0'  
MEAN HIGH WATER (MHW) = 15.6'  
MEAN LOWER LOW WATER (MLLW) = 0.0'

### ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE AND OTHERS, VARIES.

### WATER BODIES:

LYNN CANAL

## Tidelands Fill Typical

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

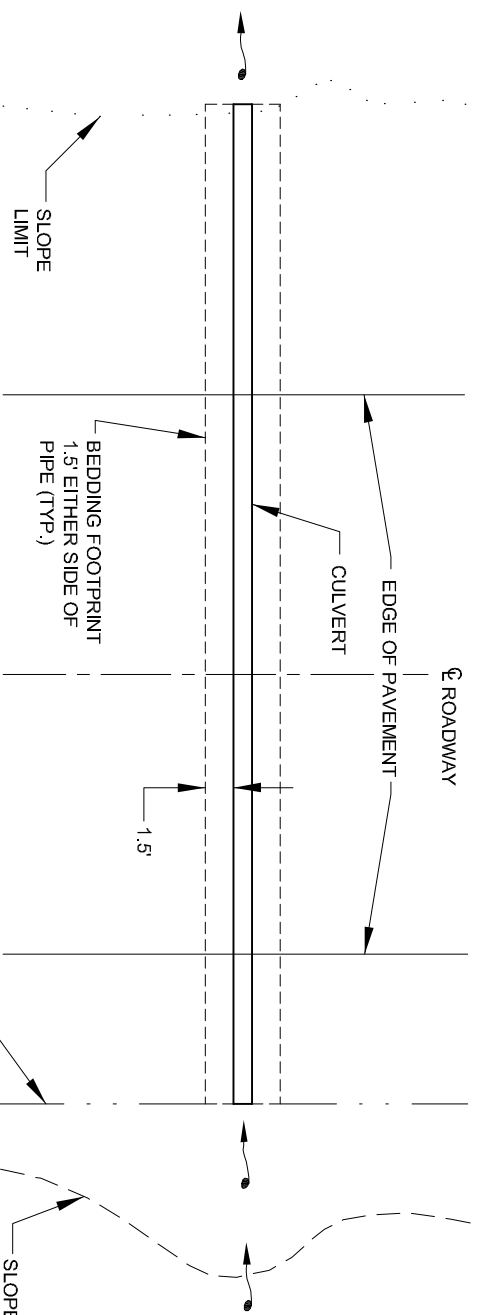
### JUNEAU ACCESS IMPROVEMENTS

FILE #: POA - 2006 - 597 - 2

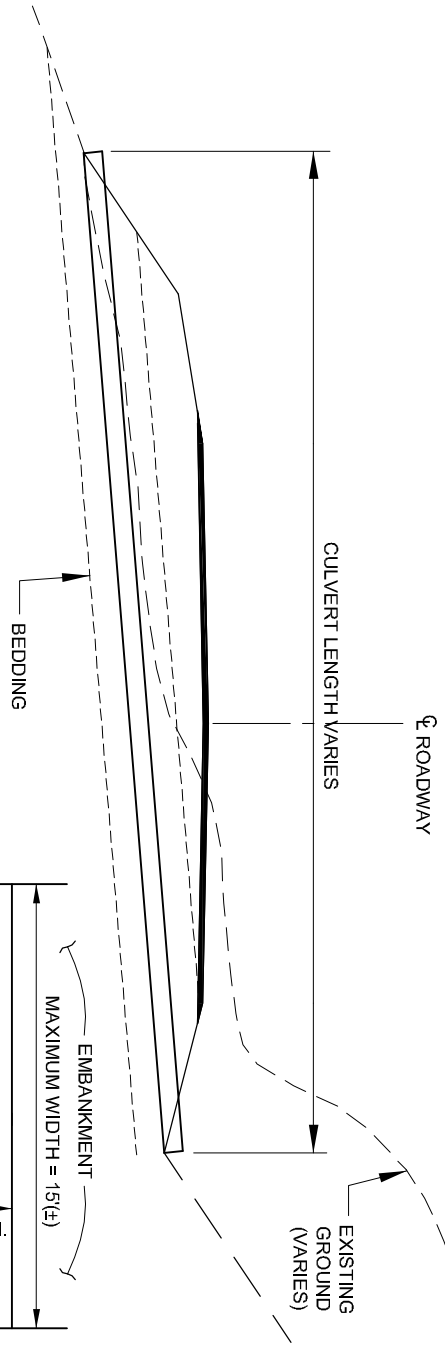
AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

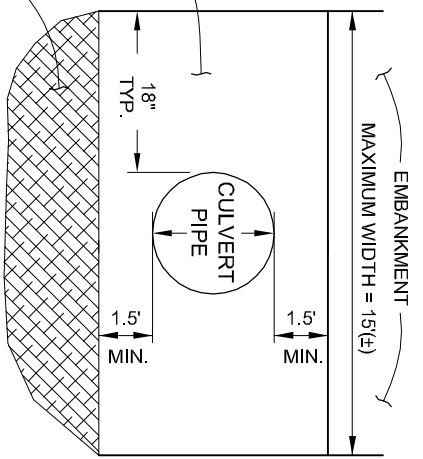
DATE: FEBRUARY, 2006 SHEET **8** OF **103**



**PLAN VIEW**



**SECTION VIEW**



**TYPICAL PIPE TRENCHING & BEDDING DETAIL**

N.T.S.

**ADJACENT PROPERTY OWNERS:**

- 1. U.S. FOREST SERVICE AND OTHERS, VARIES

**WATER BODIES:**

LYNN CANAL AND BERNERS BAY

**Typical Culvert Installation Detail**

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

**JUNEAU ACCESS IMPROVEMENTS**

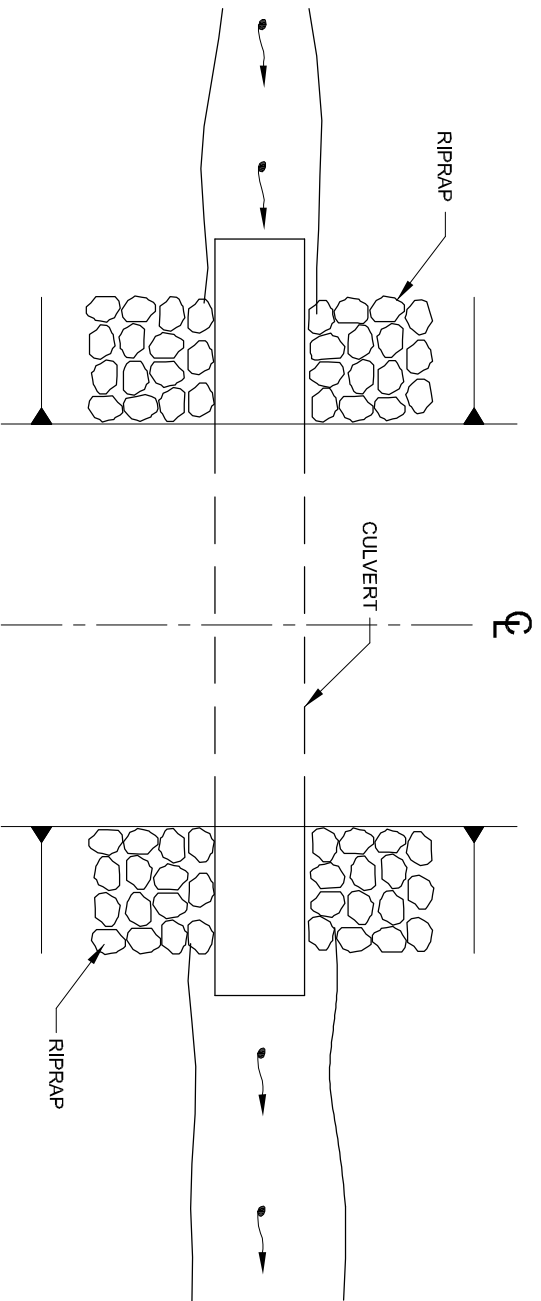
FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

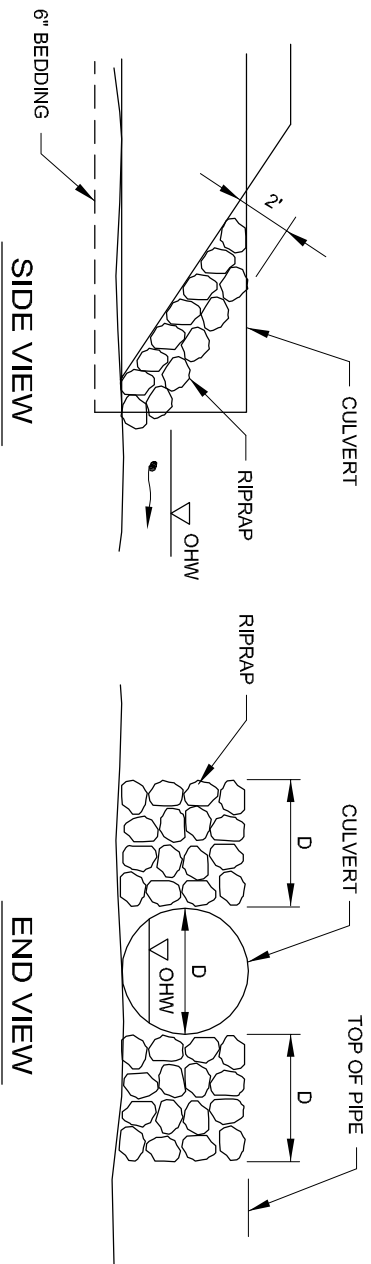
DATE: FEBRUARY, 2006

SHEET **9** OF **103**



**PLAN VIEW**

N.T.S.



## TYPICAL RIPRAP PLACEMENT

N.T.S.

### CULVERT NOTES:

1. PIPE LOCATIONS AS SHOWN ON THE PLAN AND PROFILE SHEETS ARE APPROXIMATE AND MAY BE CHANGED BY THE ENGINEER.
2. PIPE ALIGNMENTS AND GRADIENTS SHALL MATCH THE NATURAL STREAM BEDS.
3. ORDINARY HIGH WATER VARIES.

### ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE AND OTHERS

### WATER BODIES:

LYNN CANAL AND BERNERS BAY

## Typical Culvert Details

### APPLICATION BY:

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

### JUNEAU ACCESS IMPROVEMENTS

FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

DATE: FEBRUARY, 2006

SHEET **10** OF **103**

ADJACENT PROPERTY OWNERS:  
1. U.S. FOREST SERVICE AND  
OTHERS, VARIES.

WATER BODIES:  
LYNN CANAL

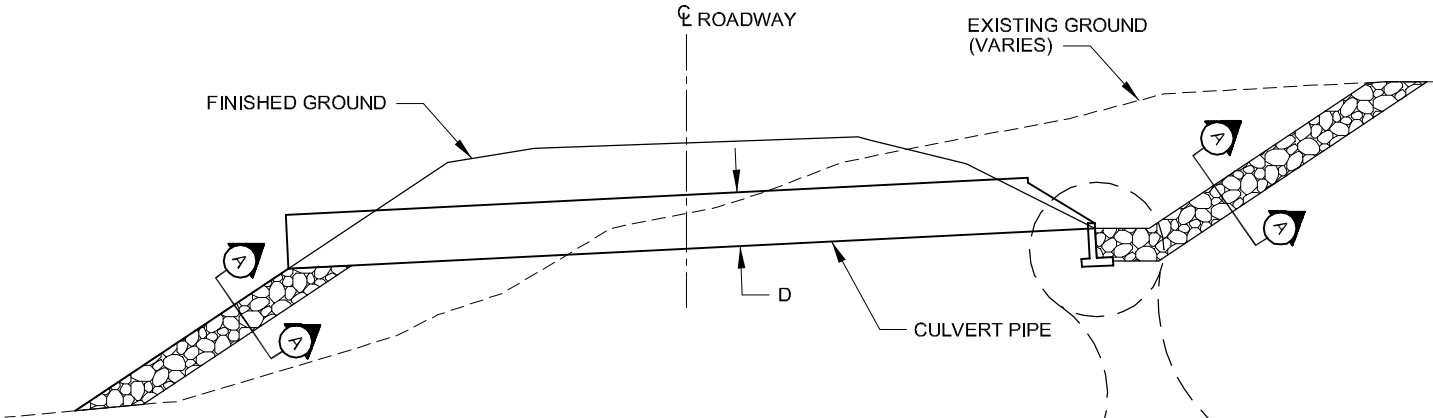
**Rock Flume  
Details**

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

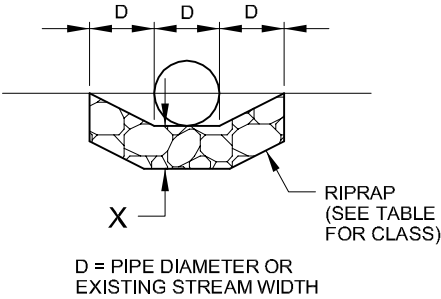
JUNEAU ACCESS IMPROVEMENTS  
FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA  
LOCATED IN: SOUTHEAST ALASKA

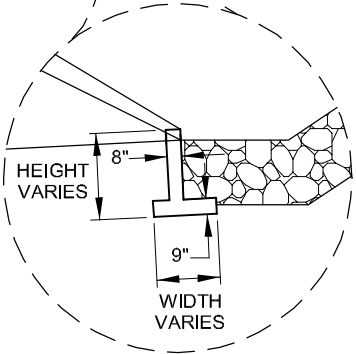
DATE: FEBRUARY, 2006 SHEET **11** OF **103**



ROADWAY SECTION

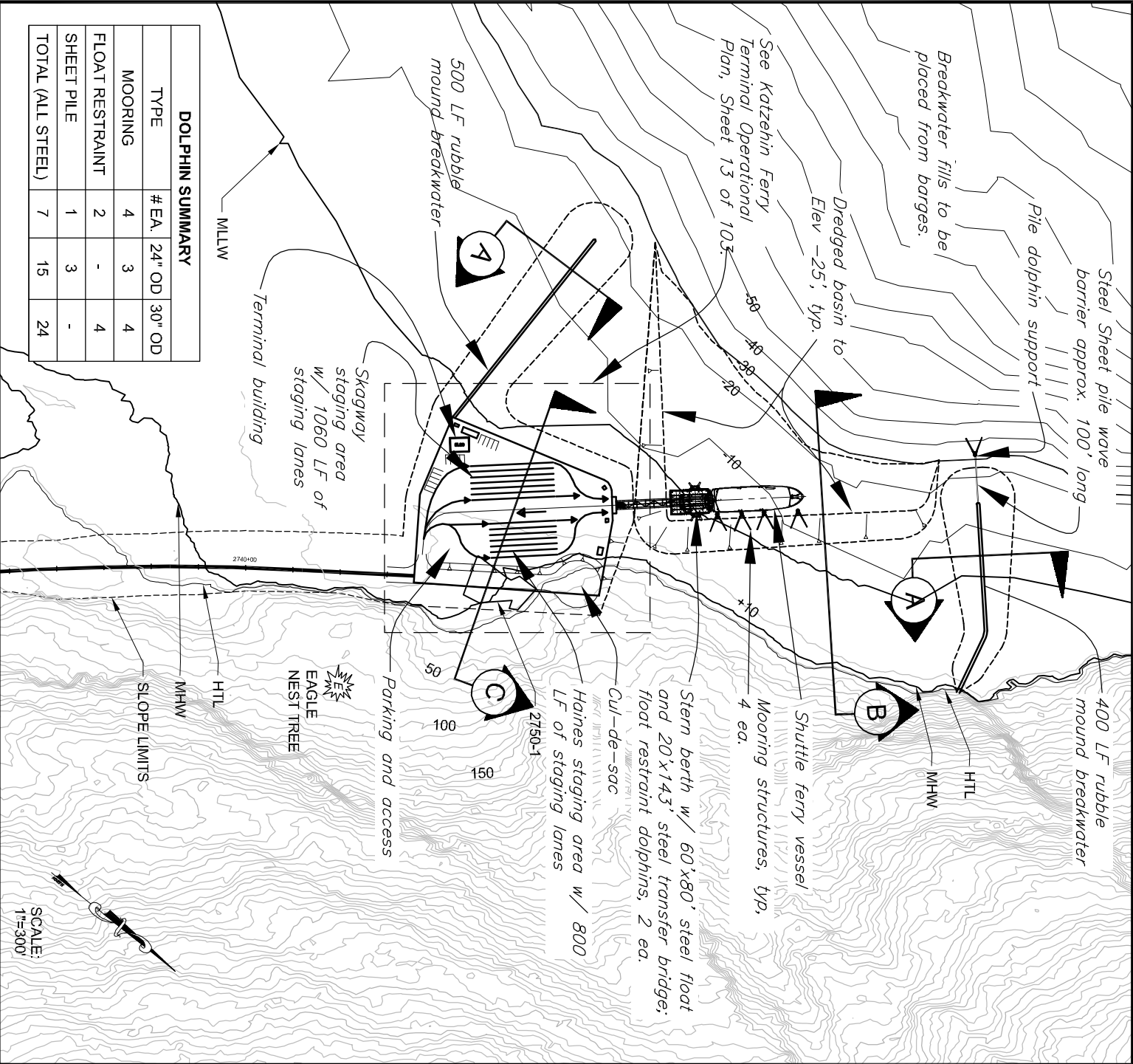


SECTION "A-A"



CONCRETE HEADWALL

PIPE DIA.	X	RIPRAP SIZE
24"	1.5'	CLASS I
36"	1.5'	CLASS I
48"	3.0'	CLASS II
60"	3.0'	CLASS II
72"	4.0'	CLASS III



DOLPHIN SUMMARY			
TYPE	# EA.	24" OD	30" OD
MOORING	4	3	4
FLOAT RESTRAINT	2	-	4
SHEET PILE	1	3	-
TOTAL (ALL STEEL)	7	15	24

ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE
2. D.N.R.

WATER BODY:

LYNN CANAL

Katzechin Ferry  
Terminal Layout

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
FILE # : POA - 2006 - 597 - 2

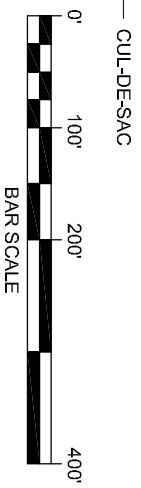
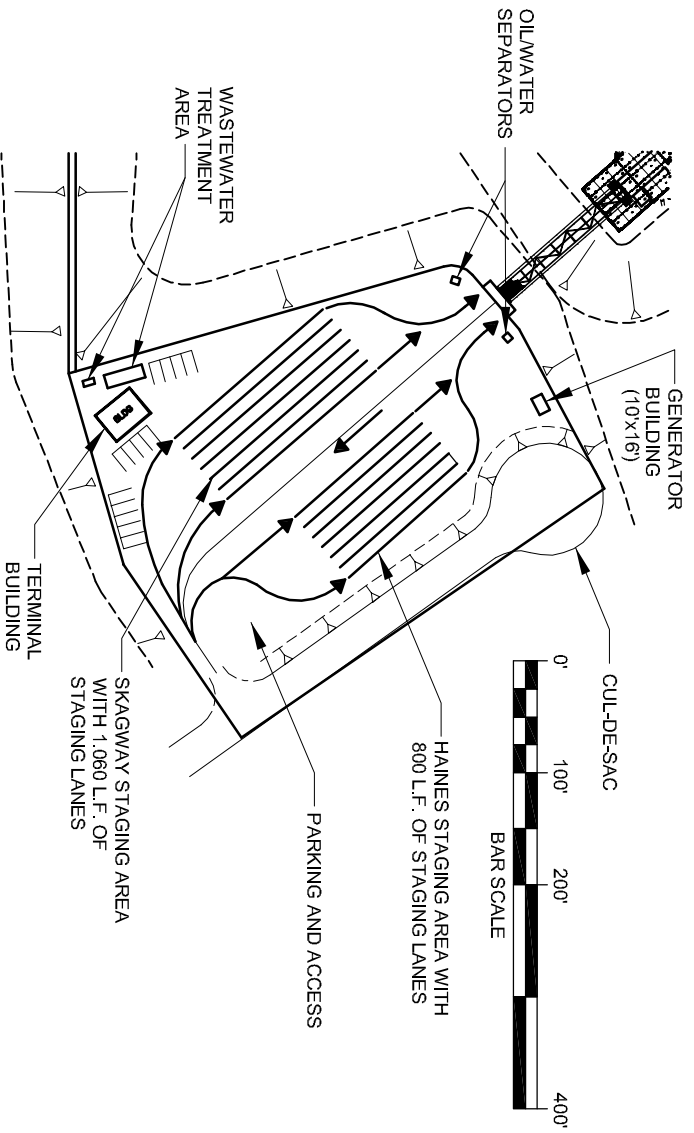
AT: JUNEAU, ALASKA

LOCATED IN: T. 31 S., R. 60 E., SECT. 4, C.R.M.

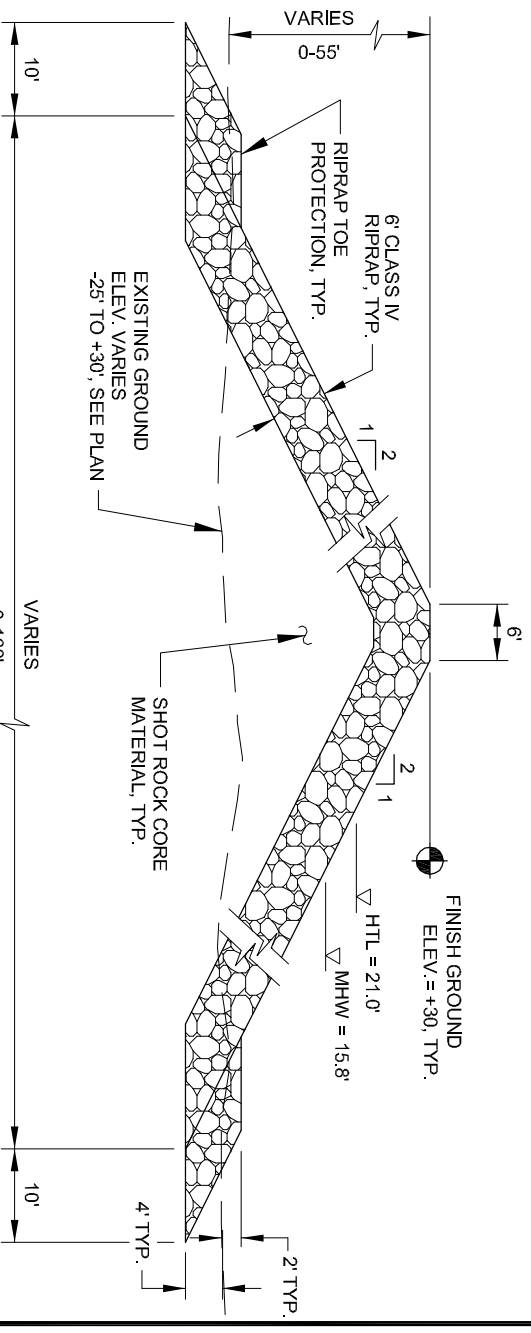
DETAIL PLAN SHEETS  
DATE: MAY 2007

SHEET 12 OF 103





## KATZEIHIN FERRY TERMINAL OPERATIONAL PLAN



## TYPICAL SECTION RUBBLE MOUND BREAKWATER

### ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE AND OTHERS, VARIES.

### WATER BODIES:

LYNN CANAL

## Typical Section

### APPLICATION BY:

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

### JUNEAU ACCESS IMPROVEMENTS

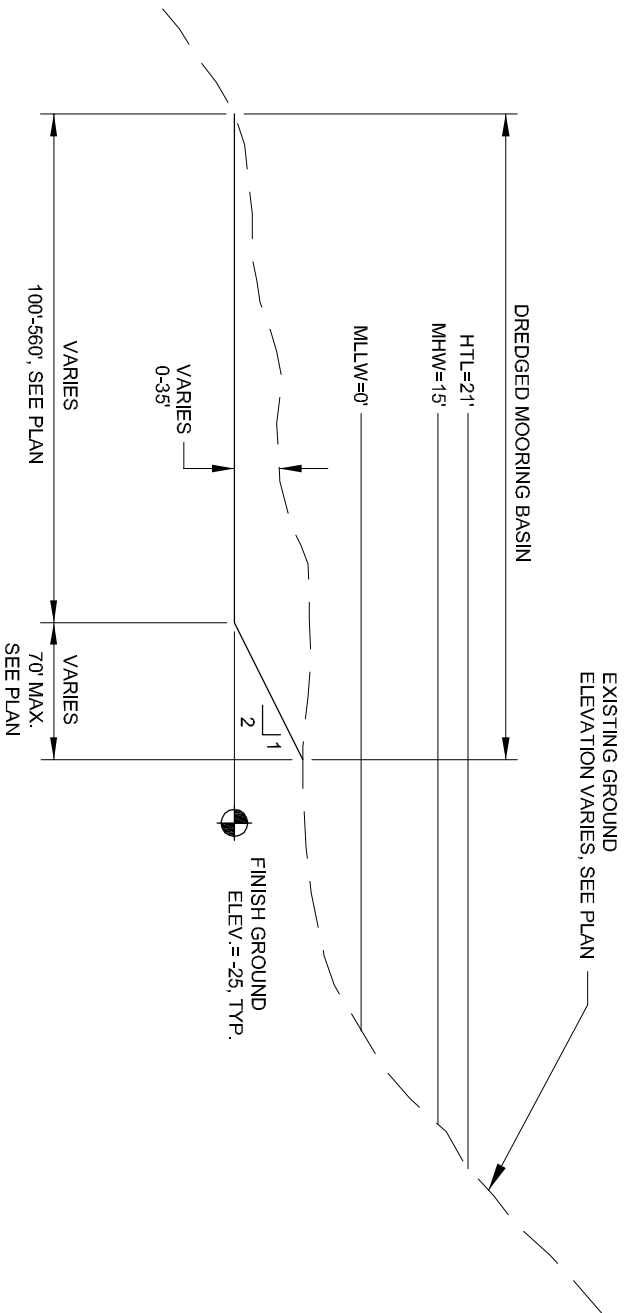
FILE #: POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

DATE: DECEMBER, 2005

SHEET **13** OF **103**



**TYPICAL SECTION**  
**DREDGED MOORING SECTION**

**ADJACENT PROPERTY OWNERS:**

- 1. U.S. FOREST SERVICE AND OTHERS, VARIES.

**WATER BODIES:**

LYNN CANAL

**Typical Section**

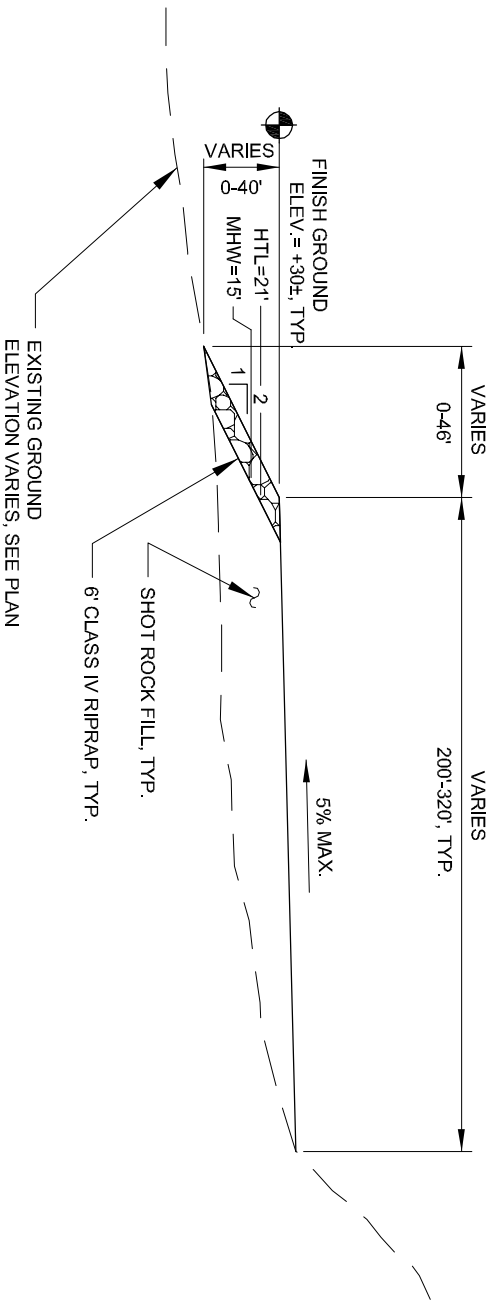
APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

**JUNEAU ACCESS IMPROVEMENTS**

FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA



**TYPICAL SECTION**  
**TERMINAL & STAGING AREA FILL**

ADJACENT PROPERTY OWNERS:

- 1. U.S. FOREST SERVICE AND OTHERS, VARIES.

WATER BODIES:

LYNN CANAL

**Typical Section**

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS

FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

DATE: FEBRUARY, 2006

SHEET **15** OF **103**

ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE AND  
OTHERS, VARIES

WATER BODIES:

LYNN CANAL

# **Deep Water Sidecast Area Typical**

APPLICATION BY:

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS

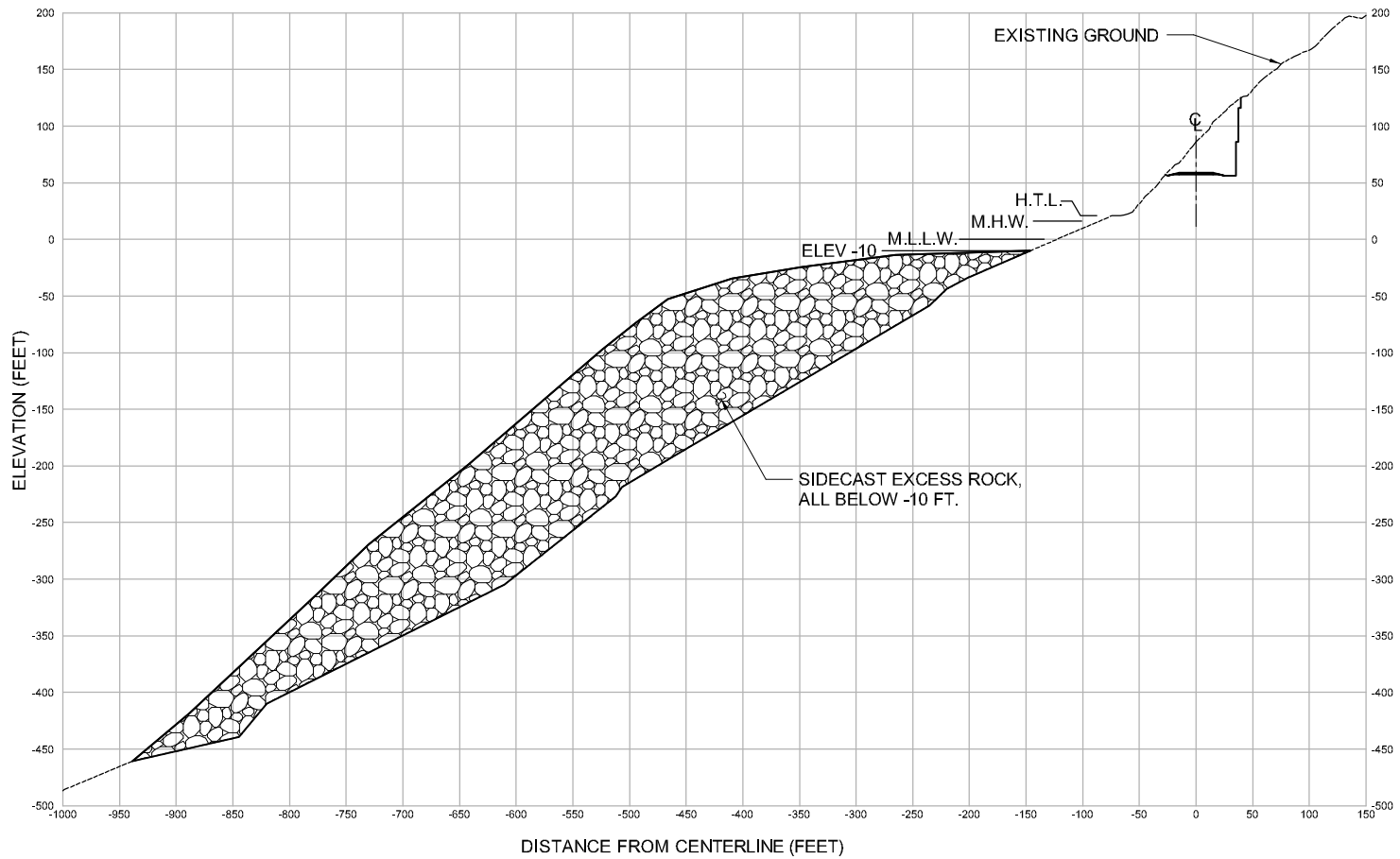
FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

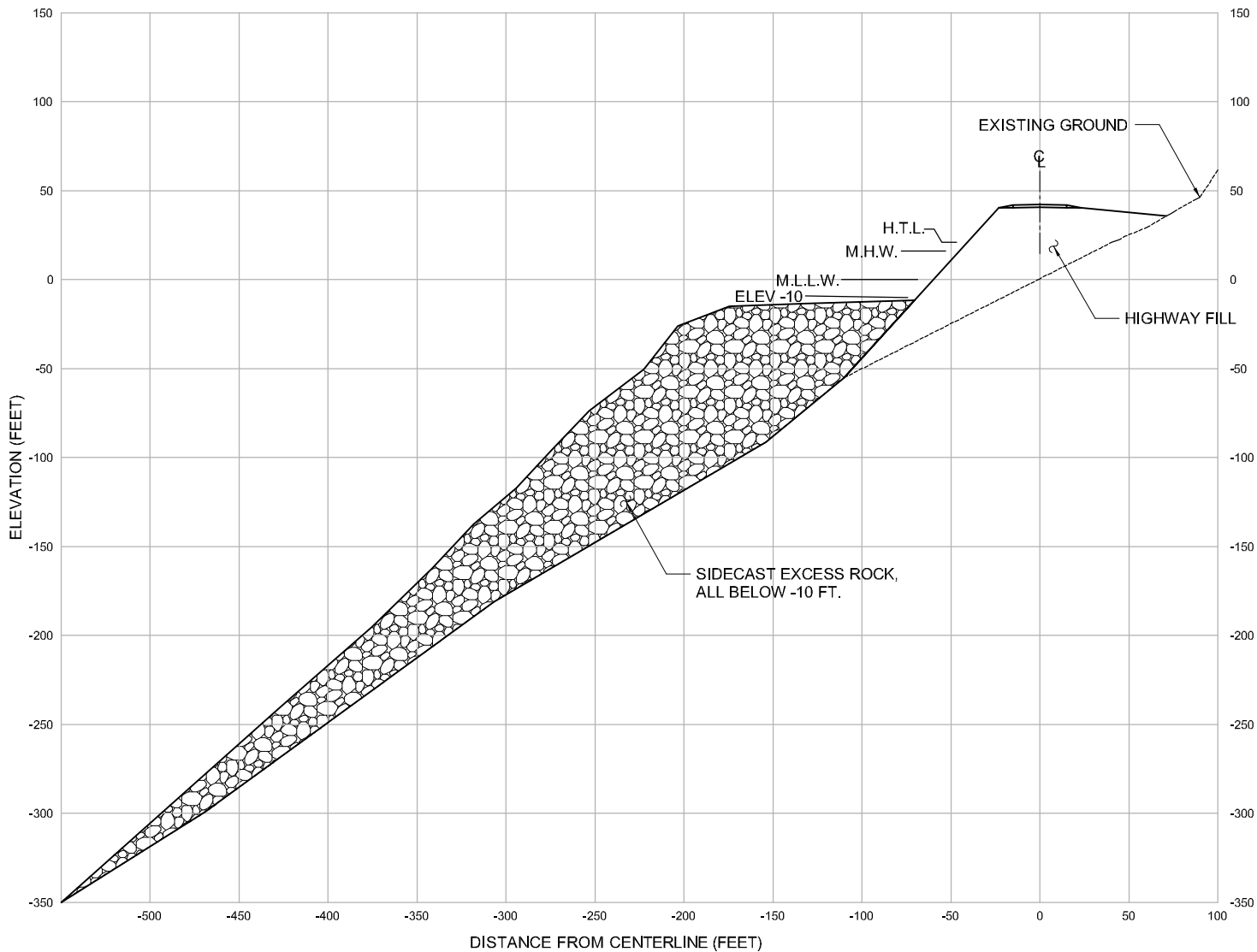
DATE: MAY 2007

SHEET **16** OF **103**



## DEEP WATER SIDECAST AREA STA. 1761+00

TYPICAL OF STA. 1759+00 TO STA. 1763+00 WHERE  
HIGHWAY SLOPE IS IN UPLANDS. SIDECAST  
EXCESS ROCK TO BE PLACED FROM BARGES



## DEEP WATER SIDECAST AREA STA. 1733+00

TYPICAL OF STA. 1732+50 TO STA. 1735+00 WHERE  
HIGHWAY SLOPE IS BELOW HTL.

### ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE AND  
OTHERS, VARIES

### WATER BODIES:

LYNN CANAL

## Deep Water Sidecast Area Typical

### APPLICATION BY:

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

### JUNEAU ACCESS IMPROVEMENTS

FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

DATE: MAY 2007

SHEET **17** OF **103**

ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE AND  
OTHERS, VARIES

WATER BODIES:

LYNN CANAL

# **Deep Water Sidecast Area Typical**

APPLICATION BY:

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS

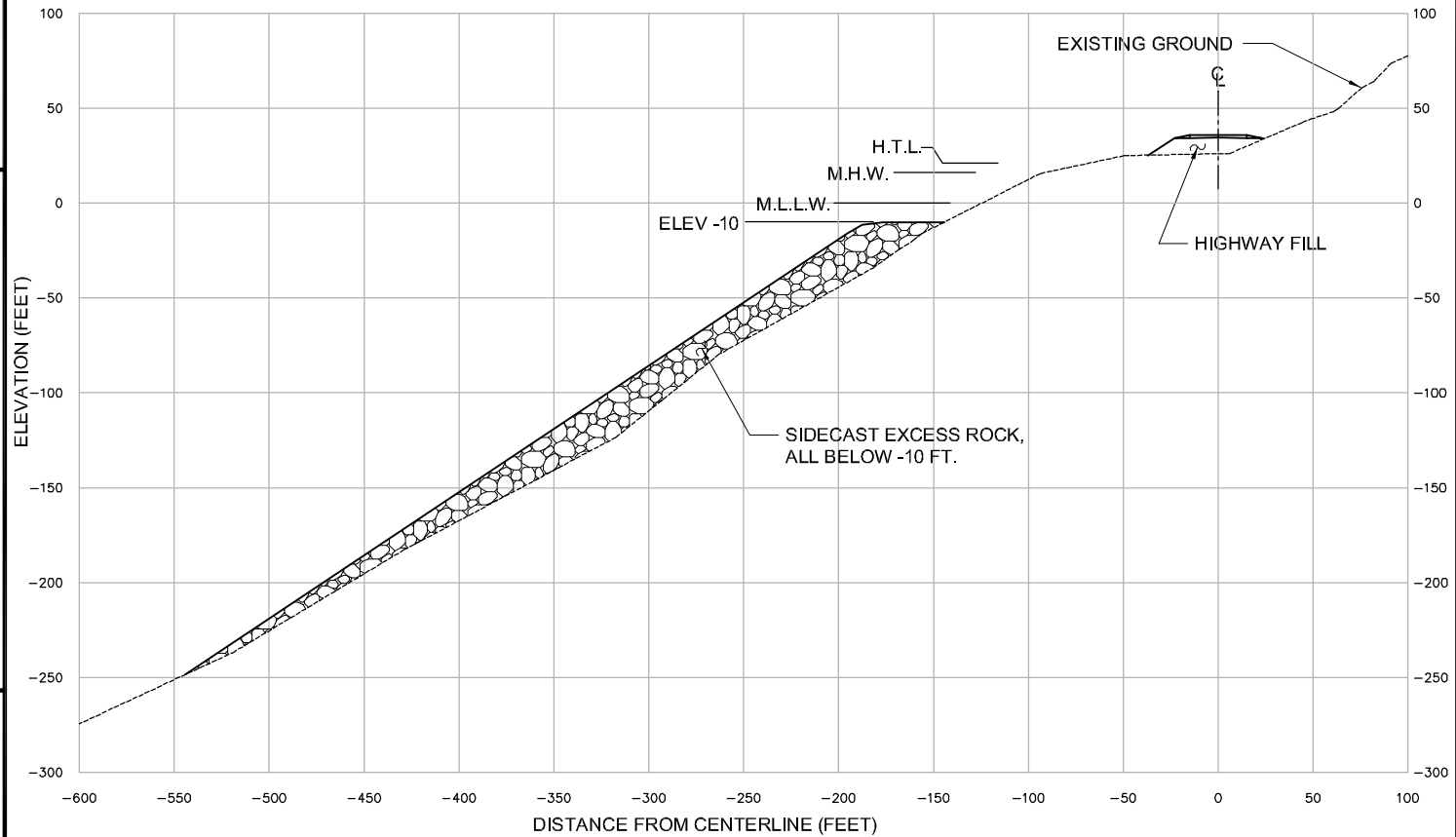
FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

DATE: MAY 2007

SHEET **18** OF **103**



## **DEEP WATER SIDECAST AREA STA. 2085+00**

TYPICAL OF STA. 2085+00 TO STA. 2088+00 WHERE  
HIGHWAY SLOPE IS IN UPLANDS. SIDECAST EXCESS  
ROCK TO BE PLACED FROM BARGES.

ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE AND  
OTHERS, VARIES

WATER BODIES:

LYNN CANAL

**Deep Water  
Sidecast Area  
Typical**

APPLICATION BY:

ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS

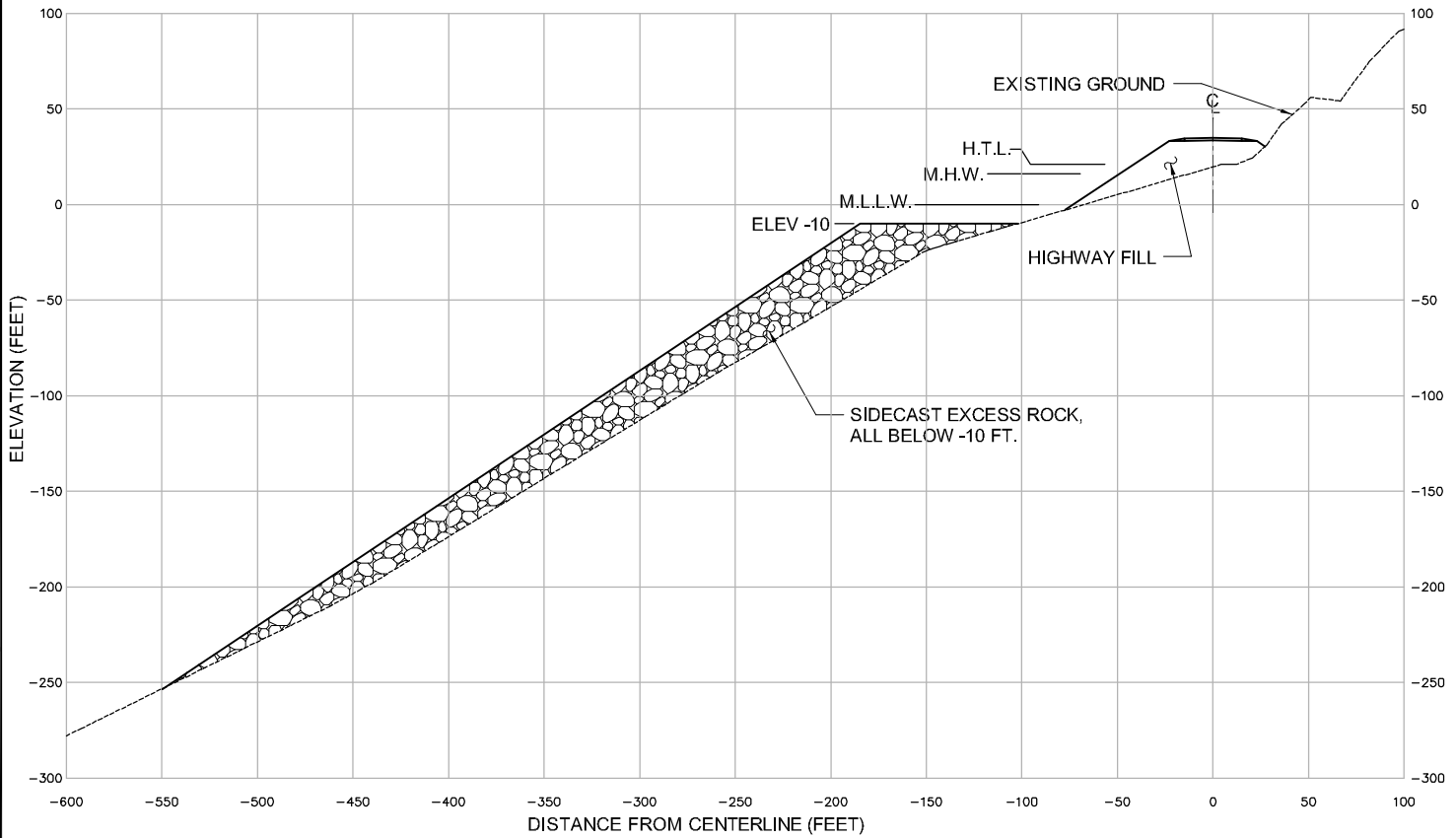
FILE # : POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

LOCATED IN: SOUTHEAST ALASKA

DATE: MAY 2007

SHEET **19** OF **103**



**DEEP WATER SIDECAST AREA STA. 2102+00**

TYPICAL OF STA. 2102+00 TO STA. 2104+00 WHERE  
HIGHWAY SLOPE IS BELOW HTL.

WETLANDS FILL AREAS														
SHEET(S)	ID	STATION	TO	STATION	LENGTH (FT.)	TYPE	FILL IMPACT			** EXCAVATION IMPACT		TOTAL IMPACT		
							S.F.	ACRES	VOL. (C.Y.)	S.F.	ACRES	S.F.	ACRES	
32	115-1	69+90		72+40	250	PFO4B	3434	0.08	600	2197	0.05	5630	0.13	
33	135-1	91+00		93+05	205	PFO4B	2885	0.07	200	1063	0.02	3948	0.09	
33	150-1	98+80		106+50	770	PFO4B	10966	0.25	1400	11945	0.27	22911	0.53	
33	165-1	109+45		115+67	622	PFO4B	5618	0.13	500	6703	0.15	12321	0.28	
33	165-1	119+07		122+64	357	PFO4B	9351	0.21	2000	0	0.00	9351	0.21	
34	165-1	136+95		140+19	324	PFO4B	3873	0.09	500	477	0.01	4349	0.10	
34	190-1	144+10		145+45	135	PFO4B	1146	0.03	50	182	0.00	1328	0.03	
34	195-1	149+30		150+37	107	PFO4B	1201	0.03	100	0	0.00	1201	0.03	
35	235-1	190+50		195+10	460	PFO4B	1799	0.04	800	6146	0.14	7945	0.18	
37	340-1	294+20		299+25	505	PSS1B/PFO4B	20352	0.47	1400	12071	0.28	32422	0.74	
41	415-1	368+30		388+90	2060	PFO4B	112683	2.59	39500	61997	1.42	174680	4.01	
53	800-1	752+46		755+60	314	PFO4B	750	0.02	64	17765	0.41	18515	0.43	
56	895-1	878+90		902+89	2399	PFO4B	110299	2.53	* 20400	103406	2.37	213705	4.91	
57	910-2	905+62		908+18	256	PFO4B	7549	0.17	300	30849	0.71	38398	0.88	
57-61	955-2	910+90		1014+19	10329	PFO4B	589011	13.52	126600	247715	5.69	836726	19.21	
61-63	955-2	1027+46		1075+80	4834	PFO4B	276138	6.34	62300	62811	1.44	338949	7.78	
63-64	955-2	1084+20		1112+87	2867	PFO4B	163688	3.76	29000	29369	0.67	193057	4.43	
64	955-2	1116+79		1127+97	1118	PFO4B	64161	1.47	13700	14065	0.32	78226	1.80	
64-65	1185-1	1127+97		1151+32	2335	PFO4B/PSS1B	117360	2.69	16600	44530	1.03	161890	3.72	
65	1185-1	1156+54		1160+67	413	PFO4B/PSS1B	15944	0.37	2100	12630	0.29	28574	0.66	
66	1185-1	1164+79		1174+99	1020	PFO4B/PSS1B	66447	1.53	17500	6915	0.16	73362	1.68	
66-67	1185-1	1177+73		1194+30	1657	PFO4B/PSS1B	89807	2.06	17000	23818	0.55	113625	2.61	
67	1185-1	1195+17		1203+41	824	PFO4B/PSS1B	41219	0.95	4600	10429	0.24	51648	1.19	
67	1220-1	1205+77		1217+14	1137	PFO4B/PSS1B	59485	1.37	10400	10091	0.23	69576	1.60	
67	1220-1	1219+36		1220+75	139	PFO4B/PSS1B	7263	0.17	1100	1769	0.04	9032	0.21	
68-69	1260-1	1248+55		1260+39	1184	PF04B/PSS4B	59966	1.38	9900	10592	0.24	70558	1.62	
69	1275-1	1264+24		1272+60	836	PFO4B	36748	0.84	2700	10027	0.23	46775	1.07	
73	1360-1	1359+00		1365+62	662	PFO4B	33899	0.78	5300	7840	0.18	41739	0.96	
74	1375-1	1373+16		1377+28	412	PFO4B	12218	0.28	800	13762	0.32	25980	0.60	
103	2750-1	FERRY TERMINAL				E2EM1N	8917	0.20	1600	0	0.00	8917	0.20	
TOTAL FILL IMPACT =							44.40	389014						
							** TOTAL EXCAVATION IMPACT =				17.48			
							TOTAL IMPACT =							61.88

\* Includes 2.4 C.Y., 66 S.F. ditch block (See sheet 56 of 103 for location)

"ID" refers to wetland identification numbers in Wetland Report, Appendix O, of the Final EIS, also found on detail sheets, e.g., ID 115-1 is found on sheet 32 of 103.

\*\* The excavation impacts are outside of the fill impacts.

ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE AND OTHERS, VARIES

## WETLANDS SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
FILE#: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: MAY 2007

SHEET **20** OF **103**



# FILL BELOW HIGH TIDE LINE (21.0')

SHEET(S)	SURVEY #	STATION	TO	STATION	LENGTH (FT.)	FILL				COMMENTS AND CONSTRAINTS
						S.F.	ACRES	VOL - C.Y.		
								↓ 21.0'	↑ 21.0' *	
75	N/A	1441+20		1442+19	40	670	0.01	100	0	Riprap slope protection down to elev. 19.7'
76-77	EIT-36	1474+54		1506+25	111	219281	5.03	42000	85300	Fill catches at elev. -6.0' at lowest point, 3 - avalanche zones and steep terrain
80	EIT-35	1553+11		1558+67	83	31266	0.72	7200	14300	Fill catches at elev. 9.3' at lowest point, eagle tree and very steep terrain
81	EIT-28	1642+21		1643+84	106	1975	0.05	500	5100	Fill catches at elev. 18.8' at lowest point, 2- eagle trees and very steep terrain
81	EIT-26	1655+30		1672+14	61	50153	1.15	10000	8300	Fill catches at elev. -4.0' at lowest point, 3 - eagle nests, an avalanche zone and very steep terrain
82-83	EIT-25	1672+14		1704+60	106	202207	4.64	33000	99600	Fill catches at elev. -10.0' - at lowest point, 3 - eagle nests, an avalanche zone and very steep terrain
83	EIT-24	1705+63		1708+04	70	4574	0.11	2100	900	Fill catches at elev. 21.0' at lowest point, avalanche zone and very steep terrain
84	STN-3	1719+32		1721+57	91	1903	0.04	4400	5200	Fill catches at elev. -7.0' at lowest point. At the base of very steep terrain
84-85	EIT-23	1728+50		1736+13	71	66131	1.52	12000	41400	Fill catches at elev. -40.0' at lowest point, eagle tree, avalanche zones and very steep terrain
85	STN-4	1737+72		1742+14	91	10293	0.24	1500	2300	Fill catches at elev. 14.0 at lowest point, eagle tree, avalanche zones and very steep terrain
88	EIT-22	1776+48		1784+20	76	47109	1.08	10000	44400	Fill catches at elev. -25.0' at lowest point, 2-eagle trees, avalanche zone and very steep terrain
89-90	EIT-21	1915+13		1969+78	145	139352	3.20	34700	35800	Fill catches at elev.10' at lowest point, 2-eagle trees, 2-avalanche zones and very steep terrain
92	EIT-20	2033+98		2038+63	166	36492	0.84	9600	26100	Fill catches at elev. 5.5' at lowest point, 3-avalanche zones and steep terrain
92	EIT-19	2049+07		2052+84	94	3742	0.09	800	1400	Fill catches at elev. 15.8' at lowest point, eagle tree, avalanche zone and steep terrain
93-94	STN-6 to 8	2087+38		2109+27	87	112410	2.58	29600	60200	Fill catches at elev. -25.0' at lowest point, eagle tree, avalanche zones and steep terrain
95	EIT-18	2284+70		2285+46	117	349	0.01	100	1100	Fill catches at elev. 20'+, Very steep terrain
100	EIT-14	2562+07		2565+07	17	4046	0.09	1000	1600	Fill down to elev. 11.4', Very steep terrain. 160' bridge over un-named drainage
101	EIT-13	2603+74		2614+95	180	113106	2.60	18400	55100	Katzehin Bridge and approaches, eagle tree and steep terrain.
103	KATZ 1-4	2736+92		2743+25	124	69406	1.59	16000	63400	Fill catches at elev. 8.8' at lowest point, eagle tree, 2-avalanche zones and steep terrain.
103	KATZ 1-4	FERRY TERMINAL FILL				166728	3.83	61200	14400	Fill catches at elev. 3.7' (Note: Fill area includes 0.2 acre Estuarine Emergent Wetlands)
					TOTALS =	1114465	29.41	294200	565900	
KATZEHIN FERRY TERMINAL BREAKWATER FILL										
						S.F.	ACRES			
	EIT-11/ KATZ 1-4					119388	2.74	49400	1600	
KATZEHIN FERRY TERMINAL DREDGE										
						S.F.	ACRES	VOL.C.Y.		
	KATZ 1-4					191720	4.40	40000		

\* Fill above elevation 21.0', but seaward of the vertical plane of the 21.0' contour.

Survey # refers to ID found on detail sheets.

## ADJACENT PROPERTY OWNERS:

- U.S. FOREST SERVICE AND OTHERS, VARIES

## TIDELANDS FILL SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
FILE#: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: MAY 2007

SHEET **21** OF **103**

### CULVERT AND STREAM FILL SUMMARY

STATION	CULVERT DIAMETER						RIPRAP (C.Y.)	BEDDING (C.Y.)	FOOTPRINT (S.F.)	CONCRETE (C.Y.)	COMMENTS
	24"	36"	48"	60"	72"	OTHER					
70+42	36							*	144		EXTEND EXISTING 16' LT, 20' RT.
81+21	32							2.4	128		EXTEND EXISTING 6' LT, 26' RT.
91+44	22							*	88		EXTEND EXISTING 12' LT, 10' RT.
99+06	24							*	96		EXTEND EXISTING 4' LT, 20' RT.
100+74	40							*	160		EXTEND EXISTING 36' LT, 4' RT.
102+43	22							*	88		EXTEND EXISTING 8' LT, 14' RT.
104+53	60							*	240		
107+39			46				8	5.1	276		EXTEND EXISTING 24' LT, 22' RT.
109+72	22							1.6	88		EXTEND EXISTING 16' LT, 6' RT.
110+81	28							*	112		EXTEND EXISTING 8' LT, 20' RT.
112+74	60							4.4	240		
118+48	40						3	3.0	160		EXTEND EXISTING LT.
120+24	44							*	176		EXTEND EXISTING 40' LT, 4' RT.
121+80	30							*	120		EXTEND EXISTING 6' LT, 24' RT.
123+83	34							2.5	136		EXTEND EXISTING 6' LT, 24' RT.
130+81			26					2.9	156		EXTEND EXISTING 6' LT, 20' RT.
137+92		36						3.3	180		EXTEND EXISTING 24' LT, 12' RT.
142+97					50			7.4	400		EXTEND EXISTING 18' LT, 32' RT.
144+46	28							*	112		EXTEND EXISTING 4' LT, 24' RT.
165+87	48							3.6	192		EXTEND EXISTING 34' LT, 14' RT.
191+33	28							*	112		EXTEND EXISTING 22' LT, 8' RT.
193+29	60							4.4	240		
213+55						42		N/A	N/A		CASCADE CREEK 18'0"X5'9" ALUMINUM ARCH
216+73		126						11.7	630		
218+61	90							6.7	360		
221+55	88							6.5	352		
234+42			150					16.7	900		
235+45	100' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED						14.7		792		DRAINAGE FILLED. FLOW INTERCEPTED AT FOLLOWING CULVERT
235+70			132								NOT IN EXISTING DRAINAGE
237+66			114					12.7	684		
242+71	66							4.9	264		
244+90	76							5.6	304		
264+51		110						10.2	550		
266+61		106						9.8	530		
267+69	92							6.8	368		
285+78		95						8.8	475		
296+64		96						8.9	480		
298+80	62							*	248		
300+50	56							4.1	224		
309+40		68						6.3	340		
326+53		92						8.5	460		
336+00			84					9.3	504		
340+37				76			60	9.9	532	1.4	2-TYPE I HEADWALLS, PIPE OUTLET SPILLWAY

\* QUANTITY OF THIS ITEM IS INCLUDED IN WETLANDS FILL VOLUME. NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

## CULVERT SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
ECHO COVE TO ANTLER RIVER  
FILE #: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: FEBRUARY, 2006      SHEET **22** OF **103**

### CULVERT AND STREAM FILL SUMMARY

STATION	CULVERT DIAMETER						RIPRAP (C.Y.)	BEDDING (C.Y.)	FOOTPRINT (S.F.)	CONCRETE (C.Y.)	COMMENTS
	24"	36"	48"	60"	72"	OTHER					
343+80	88							6.5	352		
345+03			132					14.7	792		
351+66		122						11.3	610		
352+79		128						11.9	640		
353+64		146						13.5	730		
357+71		146					39	13.5	730		PIPE OUTLET SPILLWAY
359+90		132					58	12.2	660		PIPE OUTLET SPILLWAY
361+28				140			84	18.1	980	2.8	2-TYPE I HEADWALLS, PIPE OUTLET SPILLWAY
362+19			120				52	13.3	720		PIPE OUTLET SPILLWAY
363+33	114						14	8.4	456		PIPE OUTLET SPILLWAY
372+51	64							4.7	256		
376+86		92					15	8.5	460		PIPE OUTLET SPILLWAY
379+41		98					25	9.1	490		PIPE OUTLET SPILLWAY
396+33		54					28	5.0	270		PIPE OUTLET SPILLWAY
408+50		132					49	12.2	660		PIPE OUTLET SPILLWAY
410+23		136					46	12.6	680		PIPE OUTLET SPILLWAY
412+39		96					65	8.9	480		PIPE OUTLET SPILLWAY
421+95						120	50	31.1	1680	9.2	144" PIPE, 2-TYPE I HEADWALLS, PIPE OUTLET SPILLWAY
432+77	64						18	4.7	256		PIPE OUTLET SPILLWAY
446+36		60						5.6	300		
462+65		60						5.6	300		
477+97	62							4.6	248		
490+51		64					46	5.9	320		PIPE OUTLET SPILLWAY
493+36				54				7.0	378		
493+71				54				7.0	378		
494+49						42	103	N/A	N/A		35'4"x11'x5" STEEL ARCH
514+17		60						5.6	300		
517+78		78						7.2	390		
546+34			70					7.8	420		
564+60	100' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
565+15	100' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
561+55					64			9.5	512	1.9	

\* QUANTITY OF THIS ITEM IS INCLUDED IN WETLANDS FILL VOLUME. NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

## CULVERT SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
ECHO COVE TO ANTLER RIVER  
FILE #: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: FEBRUARY, 2006      SHEET **23** OF **103**

**CULVERT AND STREAM FILL SUMMARY**

STATION	CULVERT DIAMETER						RIPRAP (C.Y.)	BEDDING (C.Y.)	FOOTPRINT (S.F.)	CONCRETE (C.Y.)	COMMENTS
	24"	36"	48"	60"	72"	OTHER					
745+00							59.4				OUTLET DITCH
745+38		60						5.6	300		
746+00	296' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
747+05		54					42.7	5.0	270		BACKSLOPE SPILLWAY RIPRAP
748+19	202' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
748+27		54					41.9	5.0	270		BACKSLOPE SPILLWAY RIPRAP
749+36	169' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
749+95	154' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
750+44	141' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
751+60		54					15.1	5.0	270		SKEW 10°, RT. AHEAD
751+80	140' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
752+69	168' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED						31.0				BACKSLOPE SPILLWAY RIPRAP. THRU-CUT - FLOW CARRIED ALONG DITCH
753+62		54						5.0	270		SKEW 10°, RT. AHEAD
754+36							64.5				BACKSLOPE SPILLWAY RIPRAP
754+43	223' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
756+15							101.3				BACKSLOPE SPILLWAY RIPRAP
756+15	372' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
758+24	146' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
760+66		72					12.6	6.7	360		PIPE OUTLET SPILLWAY RIPRAP
765+01		182					27.6	16.9	910		PIPE OUTLET SPILLWAY RIPRAP
771+80		104						9.6	520		
788+14	122							9.0	488		
794+03	148							11.0	592		
798+30		152						14.1	760		
802+99	128							9.5	512		
828+13		62					76.2	5.7	310		PIPE OUTLET SPILLWAY RIPRAP
830+62	56							4.1	224		
832+81	58						32.6	4.3	232		SKEW 14° - 21', RT. AHEAD, PIPE OUTLET SPILLWAY RIPRAP
846+51		130						12.0	650		SKEW 39° - 9', LT. AHEAD
860+00		78						7.2	390		SKEW 6° - 51', LT. AHEAD
865+28		82					16.7	7.6	410		PIPE OUTLET SPILLWAY RIPRAP
879+30		110						10.2	550		
880+29		92						*	460		
883+20		80						*	400		
884+65				88				*	616	*	SKEW 15° - 42', RT. AHEAD, TYPE 1 HEADWALL
891+75		74						*	370		
893+33		56						5.2	280		

\* QUANTITY OF THIS ITEM IS INCLUDED IN WETLANDS FILL VOLUME. NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

## CULVERT SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
LACE R. TO INDEPENDENCE CR.  
FILE #: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: SEPTEMBER, 2006 SHEET **24** OF **103**

## CULVERT AND STREAM FILL SUMMARY

STATION	CULVERT DIAMETER						RIPRAP (C.Y.)	BEDDING (C.Y.)	FOOTPRINT (S.F.)	CONCRETE (C.Y.)	COMMENTS
	24"	36"	48"	60"	72"	OTHER					
894+62		76						7.0	380		SKEW 28° - 4' LT. AHEAD
895+28		60						5.6	300		SKEW 6° - 53' RT. AHEAD
901+72		52					58.6	4.8	260		BACKSLOPE SPILLWAY RIPRAP
902+25	200' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
931+88	60							4.4	240		
933+10	78							*	312		
935+50		86						*	430		
941+50	52							3.9	208		
944+50	64							*	256		
947+50	66							*	264		
949+46	66							*	264		
952+50	68							*	272		
955+92	66							*	264		
959+00	68							*	272		
962+00	64							*	256		
964+70		62						*	310		
968+00	66							*	264		
972+00	58							*	232		
975+00	62							*	248		
978+63		72						*	360		
981+50	66							*	264		
984+00	64							*	256		
989+00	70							*	280		
992+00	70							*	280		
995+74		76						*	380		
999+50	54							*	216		
1003+75					70			*	560	*	TYPE 1 HEADWALL
1004+00	110' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED *										DRAINAGE FILLED. FLOW INTERCEPTED AT PRECEDING CULVERT
1006+46			80					*	480		
1008+03	68						*	*	272		PIPE OUTLET SPILLWAY RIPRAP
1008+66	74						*	*	296		
1010+11					90		*	*	720	*	SKEW 19° - 12', RT. AHEAD, TYPE 1 HEADWALL
1011+85				136			*	*	952	*	SKEW 11° - 23' LT. AHEAD, TYPE 1 HEADWALL
1014+84	66							4.9	264		SKEW 12° - 50' RT. AHEAD
1015+77	66							4.9	264		
1016+86	60							*	240		SKEW 19° - 28' RT. AHEAD
1029+70		72					*	*	360		PIPE OUTLET SPILLWAY RIPRAP

\* QUANTITY OF THIS ITEM IS INCLUDED IN WETLANDS FILL VOLUME. NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

## CULVERT SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
LACE R. TO INDEPENDENCE CR.  
FILE #: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: SEPTEMBER, 2006 SHEET **25** OF **103**

### CULVERT AND STREAM FILL SUMMARY

STATION	CULVERT DIAMETER						RIPRAP (C.Y.)	BEDDING (C.Y.)	FOOTPRINT (S.F.)	CONCRETE (C.Y.)	COMMENTS
	24"	36"	48"	60"	72"	OTHER					
1038+68	76							*	304		
1039+24	156' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED *										DRAINAGE FILLED. FLOW INTERCEPTED AT PRECEDING CULVERT
1041+50		70					*	*	350		PIPE OUTLET SPILLWAY RIPRAP
1044+50		64					*	*	320		PIPE OUTLET SPILLWAY RIPRAP
1047+52			86					*	516		SKEW 15° - 33' RT. AHEAD
1051+05	64							*	256		
1052+89	62							*	248		SKEW 20° - 34' LT. AHEAD
1054+67	74							*	296		SKEW 33° - 19' RT. AHEAD
1058+00	54							*	216		
1061+00	60							*	240		
1064+00	60							*	240		
1068+78				76				*	532	*	SKEW 34° - 36' LT. AHEAD, TYPE 1 HEADWALL
1073+00		74						*	370		
1074+50		104						9.6	520		
1077+35			114					*	684		SKEW 15° - 11' RT. AHEAD
1083+50		66						6.1	330		
1087+10					60		*	*	480	*	PIPE OUTLET SPILLWAY RIPRAP, TYPE 1 HEADWALL
1090+79		88						*	440		SKEW 30° - 38' RT. AHEAD
1095+00		84						*	420		SKEW 32° - 24' RT. AHEAD
1096+92	68							5.0	272		SKEW 32° - 24' RT. AHEAD
1101+45		68						*	340		SKEW 14° - 05' LT. AHEAD
1102+51		72						*	360		SKEW 20° - 02' LT. AHEAD
1104+50	60							*	240		
1107+82					82			*	656	*	SKEW 8° - 20' RT. AHEAD, TYPE 1 HEADWALL
1111+60	78							*	312		
1123+00		64					*	*	320		PIPE OUTLET SPILLWAY RIPRAP
1127+19				86				*	602	*	SKEW 38° - 33' RT. AHEAD, TYPE 1 HEADWALL
1127+40	132' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED *										DRAINAGE FILLED. FLOW INTERCEPTED AT PRECEDING CULVERT
1129+50	58							*	232		
1134+50		60						*	300		
1138+20	66							*	264		
1140+36				60				*	420	*	TYPE 1 HEADWALL
1142+95	80							*	320		SKEW 28° RT. AHEAD
1149+00		52						4.8	260		
1150+00	410' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED *										DRAINAGE FILLED. FLOW INTERCEPTED AT PRECEDING CULVERT

\* QUANTITY OF THIS ITEM IS INCLUDED IN WETLANDS FILL VOLUME. NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

## CULVERT SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
LACE R. TO INDEPENDENCE CR.  
FILE #: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: SEPTEMBER, 2006 SHEET **26** OF **103**

CULVERT AND STREAM FILL SUMMARY											
STATION	CULVERT DIAMETER						RIPRAP (C.Y.)	BEDDING (C.Y.)	FOOTPRINT (S.F.)	CONCRETE (C.Y.)	COMMENTS
	24"	36"	48"	60"	72"	OTHER					
1152+00		70						*	350		
1156+27		62						*	310		
1156+60	116' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED *										DRAINAGE FILLED. FLOW INTERCEPTED AT PRECEDING CULVERT
1159+54		70						6.5	350		
1161+38	74						20.9	5.5	296		PIPE OUTLET SPILLWAY RIPRAP
1164+10	64						18.4	4.7	256		SKEW 8° - 17' LT. AHEAD, PIPE OUTLET SPILLWAY RIPRAP
1165+67		62					*	*	310		SKEW 12° - 51' RT. AHEAD, PIPE OUTLET SPILLWAY RIPRAP
1167+50	62							*	248		
1170+60		72					*	*	360		SKEW 28° - 42' RT. AHEAD, PIPE OUTLET SPILLWAY RIPRAP
1173+00	68							*	272		SKEW 19° - 46' RT. AHEAD
1174+35	60							*	240		
1180+70	100' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED *										DRAINAGE FILLED. FLOW INTERCEPTED AT FOLLOWING CULVERT
1180+90		80						*	400		
1185+60	132' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED *										DRAINAGE FILLED. FLOW INTERCEPTED AT FOLLOWING CULVERT
1185+78					92			*	736	*	TYPE 1 HEADWALL
1189+00	52							*	208		
1191+50	60							*	240		
1193+55	64							*	256		
1194+68	68							5.0	272		SKEW 19° - 21' RT. AHEAD
1196+06	64							*	256		
1198+50		76						7.0	380		
1201+00	52							3.9	208		
1206+53			80					*	480		
1210+37			60					*	360		
1213+19	66							*	264		
1214+93	62							*	248		
1214+95	72' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED *										DRAINAGE FILLED. FLOW INTERCEPTED AT PRECEDING CULVERT
1217+76		70						6.5	350		
1220+79			54				*	*	324		PIPE OUTLET SPILLWAY RIPRAP
1222+80	52						19.3	3.9	208		PIPE OUTLET SPILLWAY RIPRAP
1225+70	100' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										DRAINAGE FILLED. FLOW INTERCEPTED AT FOLLOWING CULVERT
1225+89		82					31.8		410		NOT IN EXISTING DRAINAGE
1227+60	62						18.4	4.6	248		PIPE OUTLET SPILLWAY RIPRAP

\* QUANTITY OF THIS ITEM IS INCLUDED IN WETLANDS FILL VOLUME. NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

## CULVERT SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
LACE R. TO INDEPENDENCE CR.  
FILE #: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: SEPTEMBER, 2006 SHEET **27** OF **103**

## CULVERT AND STREAM FILL SUMMARY

STATION	CULVERT DIAMETER						RIPRAP (C.Y.)	BEDDING (C.Y.)	FOOTPRINT (S.F.)	CONCRETE (C.Y.)	COMMENTS
	24"	36"	48"	60"	72"	OTHER					
1228+59		60					21.8	5.6	300		PIPE OUTLET SPILLWAY RIPRAP
1232+17		56					12.6	5.2	280		PIPE OUTLET SPILLWAY RIPRAP
1234+07	62						6.7	4.6	248		SKEW 16° - 30' RT. AHEAD, PIPE OUTLET SPILLWAY RIPRAP
1235+80	60							4.4	240		
1250+00	62							*	248		
1252+50	58							*	232		
1255+50	54							*	216		
1258+80		70						*	350		SKEW 20° - 09' LT. AHEAD
1260+60		84						7.8	420		SKEW 20° - 26' LT. AHEAD
1267+00	60							*	240		
1270+00	52							*	208		
1281+43		106						9.8	530		SKEW 36° - 27' LT. AHEAD
1285+17	84							6.2	336		SKEW 25° - 10' LT. AHEAD
1299+32	85' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1304+84	110' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1307+30	105' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1310+05	90' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1310+09	80' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1310+59	65' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1312+66	80' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1313+92	54							4.0	216		
1315+24	58										NOT IN EXISTING DRAINAGE
1315+40	65' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED						4.3		232		DRAINAGE FILLED. FLOW INTERCEPTED AT PRECEEDING CULVERT
1320+78	85' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1321+61	95' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1323+71	110' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1324+93	120' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1334+37	115' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1336+02		84						7.8	420		SKEW 22° - 56' LT. AHEAD
1337+32		98						9.1	490		
1339+74		82									NOT IN EXISTING DRAINAGE
1340+50	240' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED						7.6		410		DRAINAGE FILLED. FLOW INTERCEPTED AT PRECEEDING CULVERT
1342+59		128					25.1	11.9	640		SKEW 31° - 37' LT. AHEAD, PIPE OUTLET SPILLWAY RIPRAP

\* QUANTITY OF THIS ITEM IS INCLUDED IN WETLANDS FILL VOLUME. NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

## CULVERT SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
LACE R. TO INDEPENDENCE CR.  
FILE #: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: SEPTEMBER, 2006 SHEET **28** OF **103**



## CULVERT AND STREAM FILL SUMMARY

STATION	CULVERT DIAMETER						RIPRAP (C.Y.)	BEDDING (C.Y.)	FOOTPRINT (S.F.)	CONCRETE (C.Y.)	COMMENTS
	24"	36"	48"	60"	72"	OTHER					
1350+84		68					12.6	6.3	340		SKEW 17° - 43' LT. AHEAD, PIPE OUTLET SPILLWAY RIPRAP
1357+65	62							4.6	248		
1358+42	66							4.9	264		
1360+80	52						13.4	3.9	208		PIPE OUTLET SPILLWAY RIPRAP
1362+52	72							*	288		
1366+18	88							6.5	352		SKEW 48° - 39' LT. AHEAD
1373+41	58							4.3	232		
1379+76	54							4.0	216		
1388+48		86						8.0	430		
1421+50		68						6.3	340		
1434+88	66							4.9	264		
1461+88				82				10.6	574	1.4	TYPE 1 HEADWALL
1468+00				88				11.4	616	1.4	TYPE 1 HEADWALL
1498+67											FLOW CARRIED ALONG EMBANKMENT TO PRECEEDING CULVERT
1475+37				110				14.3	770	1.4	TYPE 1 HEADWALL
1480+70				92				11.9	644	1.4	TYPE 1 HEADWALL
1486+95				104				13.5	728	1.4	TYPE 1 HEADWALL
1490+00			106					11.8	636		
1496+02			102					11.3	612		
1498+87			100					11.1	600		
1502+51				78				10.1	546	1.4	TYPE 1 HEADWALL
1504+40	200' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED						9.3		504		DRAINAGE FILLED. FLOW INTER- CEPTED AT FOLLOWING CULVERT
1504+90				72						1.4	NOT IN EXISTING DRAINAGE
1513+44	200' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1513+50	80' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1516+03	80' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1517+00		54						5.0	270		
1517+59	70' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1520+60		54						5.0	270		
1520+75	65' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1523+00		54						5.0	270		
1526+00		54						5.0	270		
1527+17	75' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1529+60		54						5.0	270		
1532+00		54						5.0	270		
1533+69	70' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1536+67	75' OF DRAINAGE CHANNEL REMOVED AND RE-ROUTED										THRU CUT - FLOW CARRIED ALONG DITCH
1540+20		54						5.0	270		
<b>** TOTALS</b>	241 CULVERTS						1521	1012	88038	24.8	

**NOTE: EACH CULVERT LISTING  
GIVES LENGTH IN FEET.**

**\* THE QUANTITY OF THIS ITEM IS  
INCLUDED IN WETLANDS FILL  
VOLUME.**

**\*\* THIS TOTAL IS FOR SHEETS 22 TO  
29.**

## CULVERT SUMMARY

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
LACE R. TO INDEPENDENCE CR.  
FILE #: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: SEPTEMBER, 2006 SHEET **29** OF **103**

**CULVERT SUMMARY**

STATION	CULVERT DIAMETER				STATION	CULVERT DIAMETER			
	24"	36"	48"	72"		24"	36"	48"	72"
1555+00		56			1827+00	56			
1559+00	54				1831+00	52			
1563+00	50				1835+00	52			
1567+00		54			1839+00	52			
1571+00	52				1843+00	52			
1579+00	52				1847+00	52			
1583+00	50				1851+00	52			
1588+00	52				1856+00	50			
1591+00	52				1860+00	50			
1595+00		66			1864+00	54			
1604+00	56				1868+00	54			
1608+00	50				1872+00	56			
1613+25		60			1876+00	56			
1618+00	50				1885+00		56		
1624+00	50				1894+00		56		
1628+00	50				1898+00	54			
1632+00	50				1901+00	54			
1635+00	52				1909+00	54			
1642+00			70		1915+00	54			
1645+00	52				1919+00	54			
1649+00	52				1923+00	54			
1654+00	52				1927+00	54			
1659+00		56			1931+00	54			
1662+50			96		1935+00	54			
1665+25			100		1939+00	54			
1668+00	54				1943+00	54			
1676+00	54				1947+00	54			
1680+00	60				1951+50		56		
1684+00	54				1956+00	54			
1688+00			54		1960+00	54			
1692+00	60				1964+00	54			
1696+00	54				1972+00	50			
1700+00	54				1976+00	50			
1704+00		60			1980+00	52			
1708+00	52				1985+00	50			
1712+00	52				1990+00	50			
1716+00	52				1993+00	50			
1720+00	60				1996+00	50			
1729+00	54				2004+00	50			
1731+00		64			2007+00	50			
1736+00		56			2013+00		56		
1739+50		56			2020+61			70	
1741+00		56			2033+00		56		
1758+00		52			2037+00	56			
1761+00		72			2040+00	52			
1775+00	54				2042+00		54		
1779+00	56				2044+00		54		
1783+00	56				2049+00		54		
1787+00	54				2053+50			54	
1794+00	54				2058+00	52			
1798+00	54				2062+00	52			
1803+00	56				2066+00	52			
1811+00				108	2072+00		52		
1815+00	52				2078+00	54			
1819+00	52				2082+00	54			
1823+00	52				2087+00				56

NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

**MORE BEDDING AND FOOTPRINT  
INFORMATION WILL BE PROVIDED  
FOLLOWING GEOTECHNICAL AND  
OTHER SURVEYS IN 2006-07.**

## **PRELIMINARY CULVERT SUMMARY**

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
FILE#: POA-2006-597-2

AT: JUNEAU, ALASKA

DATE: MAY 2007

SHEET **30** OF **103**

CULVERT SUMMARY									
STATION	CULVERT DIAMETER				STATION	CULVERT DIAMETER			
	24"	36"	48"	72"		24"	36"	48"	72"
2090+00	54				2354+33			56	
2094+00	54				2359+00	50			
2098+00	54				2368+00	50			
2102+00				56	2374+50			56	
2106+00	54				2379+00	50			
2109+00	54				2383+00	52			
2113+00	50				2387+00	52			
2117+00	50				2401+00		56		
2119+00	50				2408+00	52			
2123+00	54				2412+00	56			
2127+00			54		2420+00	56			
2131+00	52				2424+00	50			
2135+00	50				2428+00	56			
2140+00	50				2438+00		56		
2144+00	52				2448+00		56		
2148+00	52				2453+00	52			
2152+00	54				2458+00	52			
2156+00	52				2463+00		56		
2160+00	52				2468+00	50			
2165+00	52				2472+00	52			
2169+00	50				2481+00		54		
2179+00	54				2485+50	52			
2183+00	54				2492+00	52			
2189+50			56		2497+00	50			
2191+25		56			2501+00	50			
2198+00	50				2504+00	56			
2201+00	50				2511+50		56		
2205+00	52				2517+00	52			
2209+00	54				2521+00	50			
2213+00	52				2531+00	52			
2217+00	52				2536+00		56		
2221+00	52				2547+00		56		
2223+00			54		2553+00	52			
2227+00	56				2557+00	52			
2237+00			56		2561+00		56		
2241+00	52				2572+00	56			
2246+00		54			2583+00	50			
2252+00	50				2586+00	50			
2266+00			56		2598+00	56			
2270+00			56		2606+00	56			
2274+00	56				2639+00				110
2280+00			56		2647+00				130
2284+00	52				2666+00			118	
2488+00	52				2671+50			120	
2298+00	52				2680+50			120	
2302+00	50				2696+00				120
2312+00	50				2702+00			120	
2316+00	56				2710+00			110	
2319+00	52				2714+00		110		
2327+00	52				2718+00	56			
2332+00	50				2722+00		110		
2335+00	50				2726+00		86		
2340+00	50				2730+00	56			
2344+00	50				2734+00		100		
2349+00	52				2738+00		130		
					2742+00	96			

NOTE: EACH CULVERT LISTING GIVES LENGTH IN FEET.

MORE BEDDING AND FOOTPRINT  
INFORMATION WILL BE PROVIDED  
FOLLOWING GEOTECHNICAL AND  
OTHER SURVEYS IN 2006-07.

## PRELIMINARY CULVERT SUMMARY

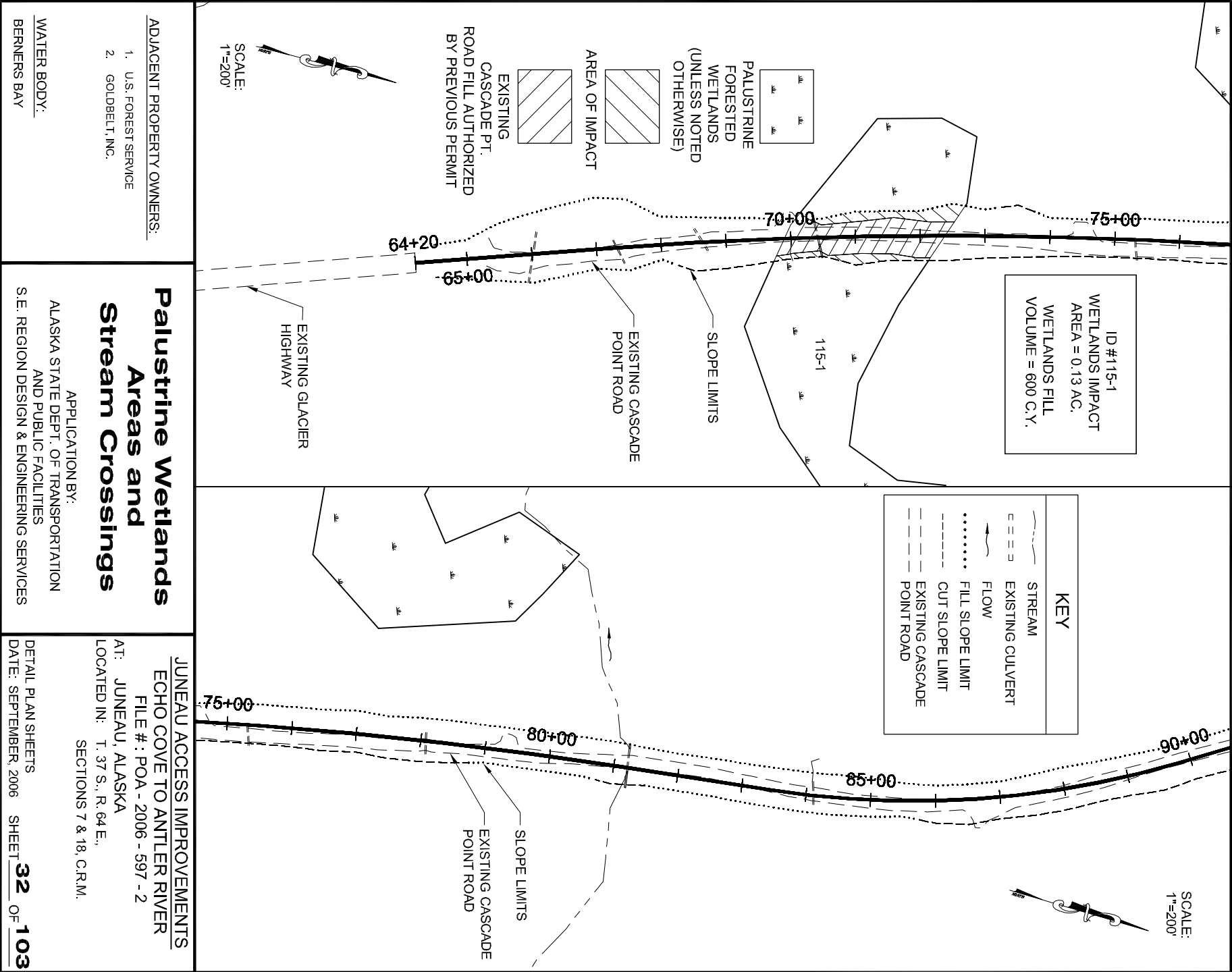
APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

JUNEAU ACCESS IMPROVEMENTS  
FILE#: POA-2006-597-2

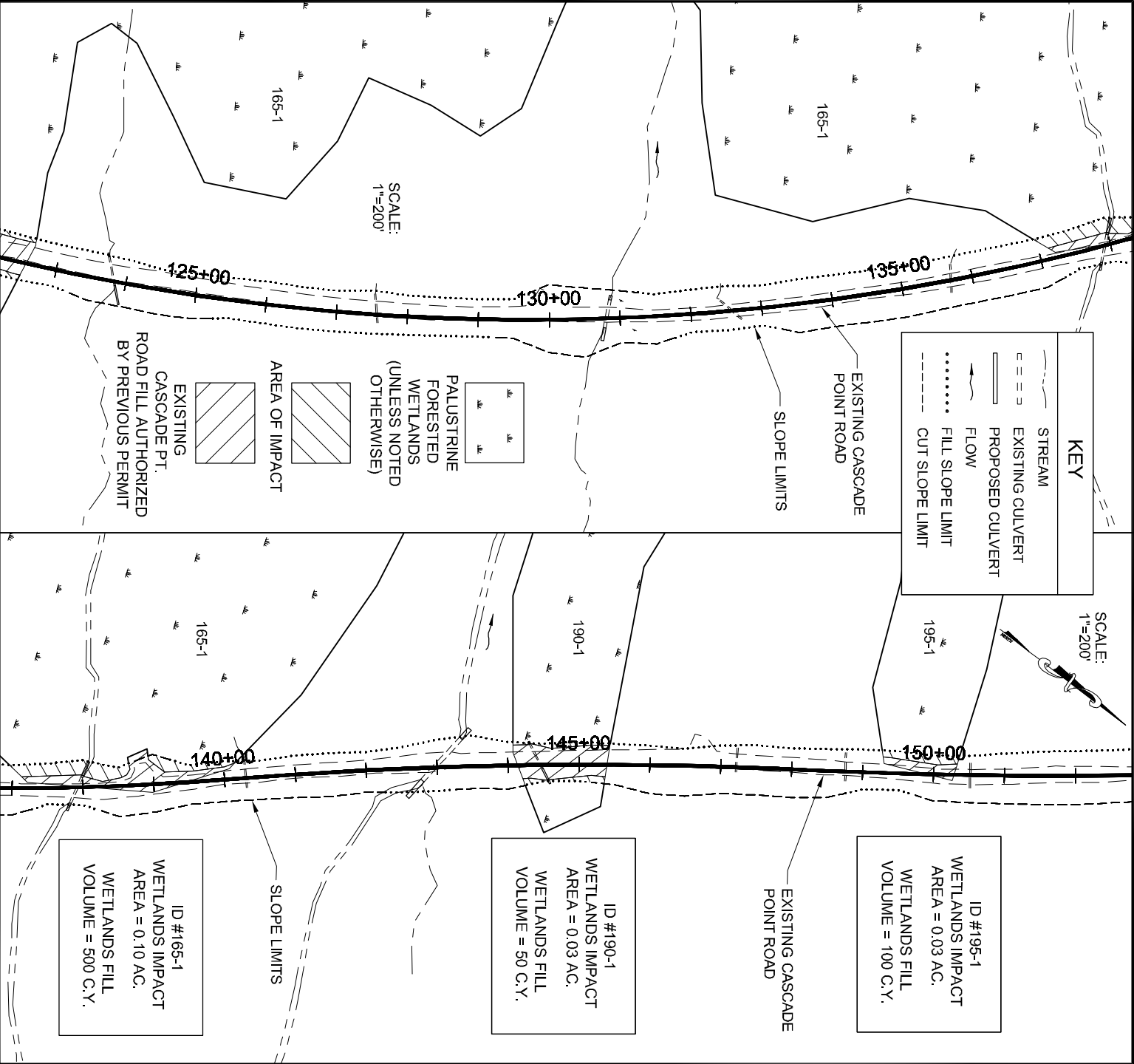
AT: JUNEAU, ALASKA

DATE: MAY 2007

SHEET **31** OF **103**







ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE
2. GOLDBELT, INC.

WATER BODY:  
BERNERS BAY

**Palustrine Wetlands  
Areas and  
Stream Crossings**

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

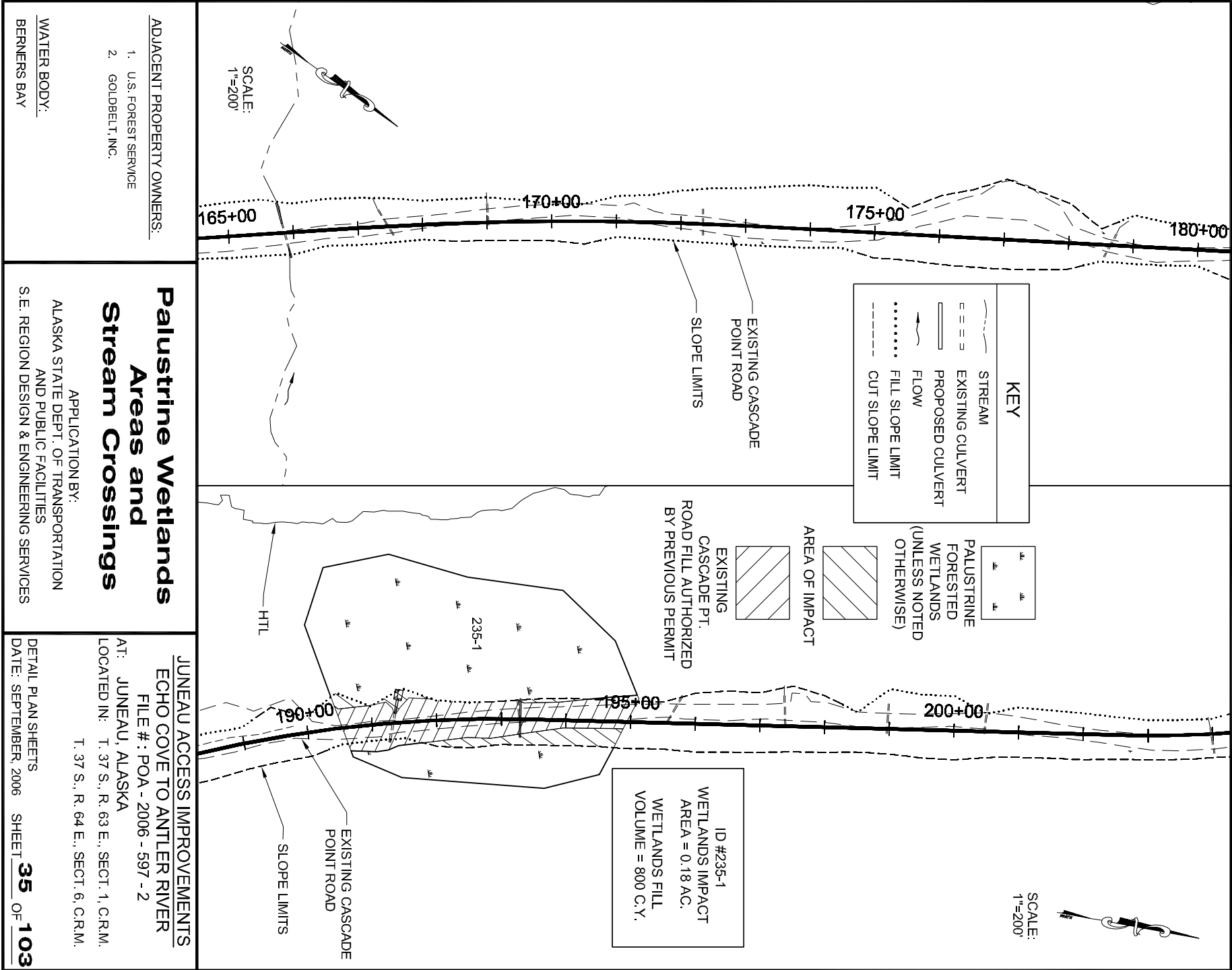
JUNEAU ACCESS IMPROVEMENTS

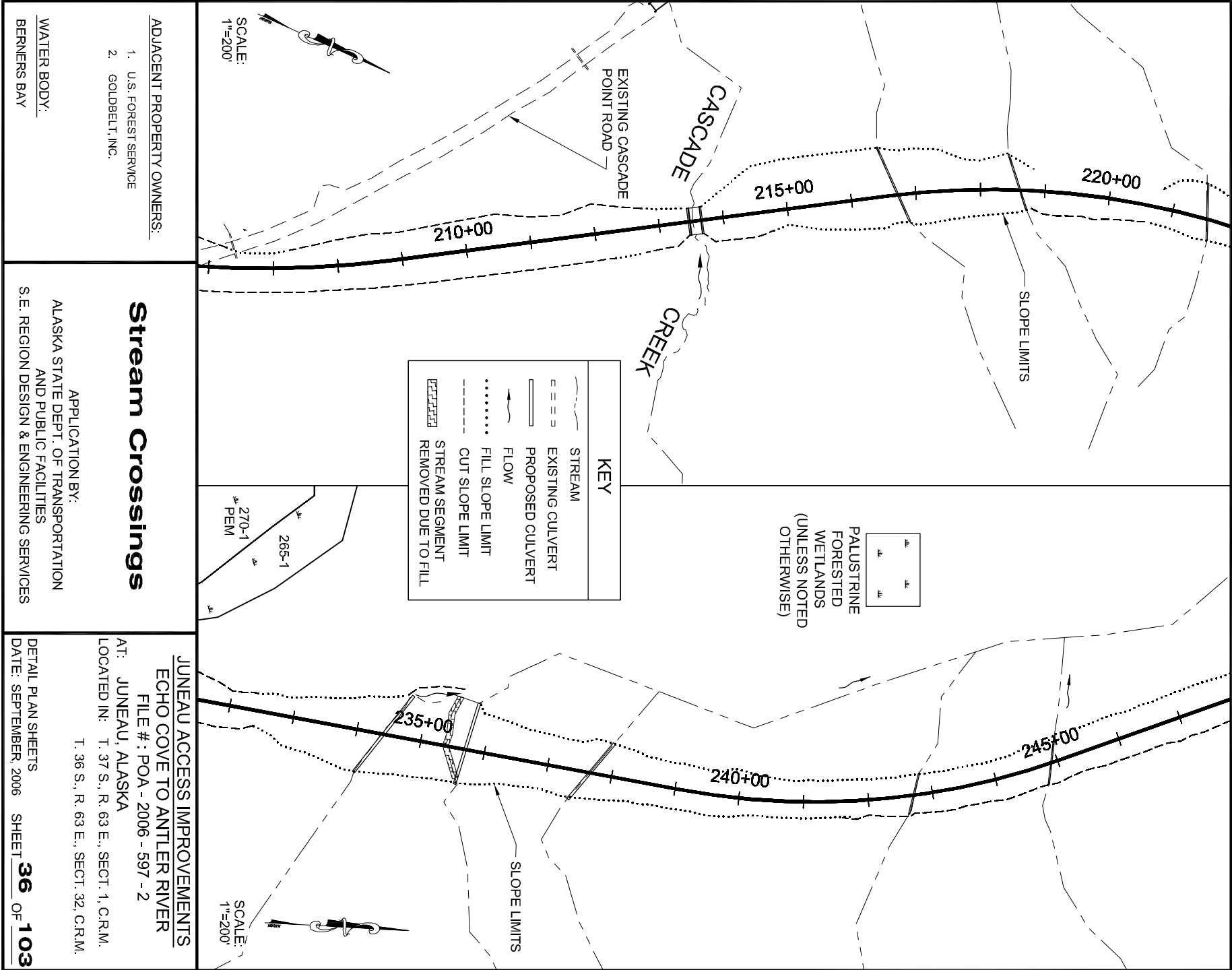
ECHO COVE TO ANTLER RIVER  
FILE #: POA - 2006 - 597 - 2

AT: JUNEAU, ALASKA

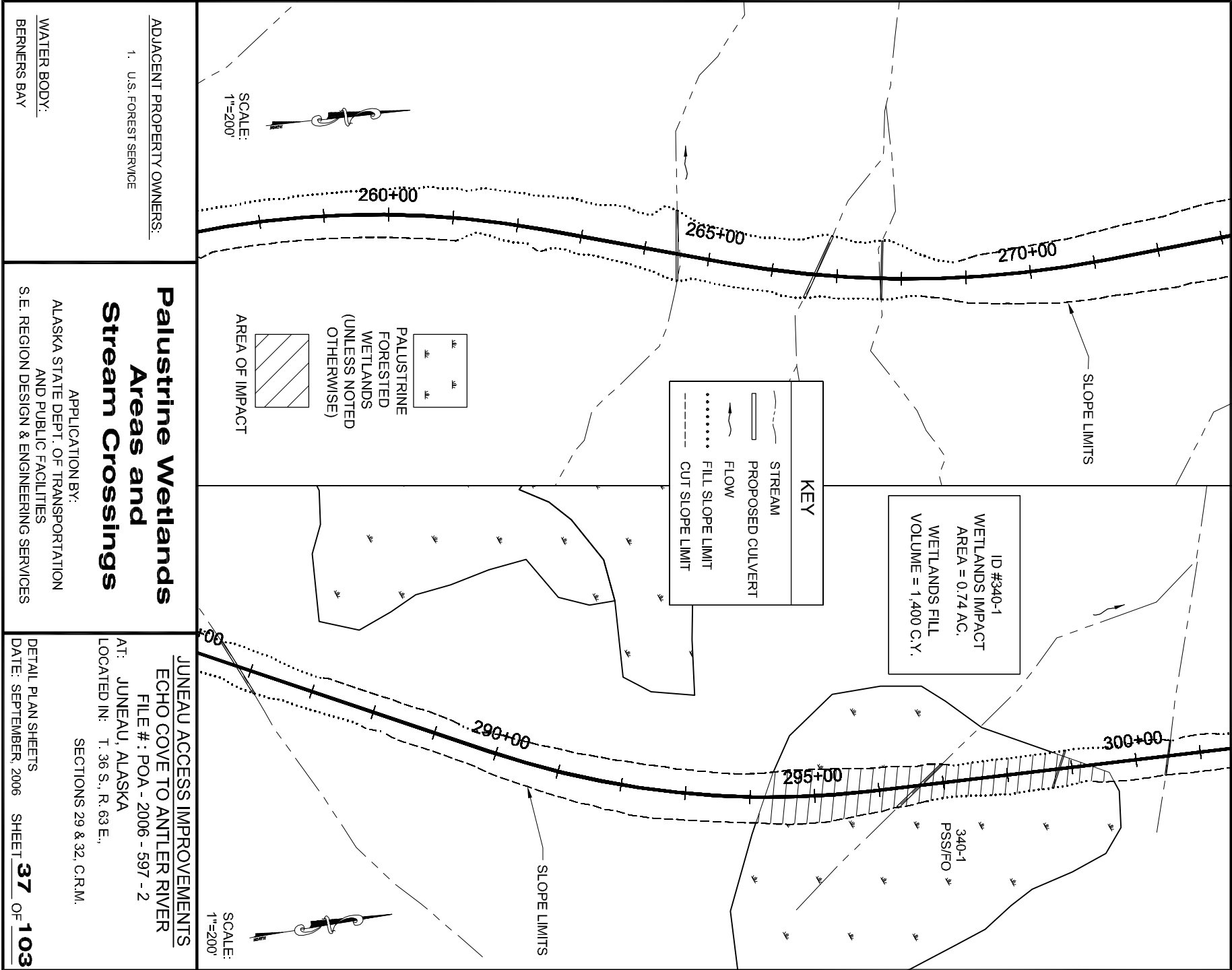
LOCATED IN: T. 37 S., R. 64 E.,

SECTIONS 6 & 7, C.R.M.









ADJACENT PROPERTY OWNERS:

1. U.S. FOREST SERVICE

**Sawmill Creek Bridge  
Bridge No. 1E**

APPLICATION BY:  
ALASKA STATE DEPT. OF TRANSPORTATION  
AND PUBLIC FACILITIES  
S.E. REGION DESIGN & ENGINEERING SERVICES

DETAIL PLAN SHEETS  
DATE: SEPTEMBER, 2006 SHEET **38** OF **103**

JUNEAU ACCESS IMPROVEMENTS  
ECHO COVE TO ANTLER RIVER  
FILE # : POA - 2006 - 597 - 2  
AT: JUNEAU, ALASKA  
LOCATED IN: T. 36 S., R. 63 E., SECT. 29, C.R.M.

NO FILL IN WATERS OF THE U.S.

SCALE:  
1"=100'

280+00

275+00

OHV

— OHW

- SLOPE LIMITS

## KEY

STREAM

PROPOSED CULVERT

RIPRAP

FLOW

FILL SLOPE LIMIT

CUT SLOPE LIMIT

EXISTING  
GROUND

FINISHED  
PROFILE

3'-0"

---

RIPRAP

TYPICAL SECTION

-0.14%

EMBANKMENT,  
(UPLANDS) —

SEE TYPICAL SECTION  
THIS SHEET

— EMBANKMENT,  
(UPLANDS)

EXISTING  
GROUND  
ELEVATION

FINISHED  
ROAD  
ELEVATION

122.4	104.12
274+00	

117.0	103.84
276+00	

92.7	103.55
278+00	

96.7	103.28
280+00	

99.1	104.03
------	--------

