

State of Alaska

Department of Transportation
and Public Facilities
Southeast Region

KETCHIKAN, ALASKA NORTH TONGASS HIGHWAY

WARD COVE TO WHIPPLE CREEK
STAGE 3 ~ WARD COVE TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT NO. 68973

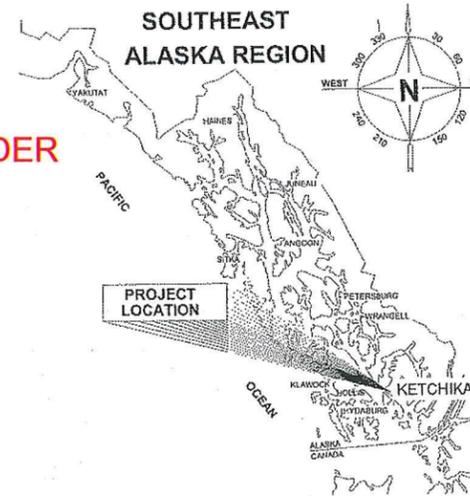
AS-BUILTS

PROJECT ENGINEER: DANIELLE RYDER

CONTRACTOR: SECON, INC.

START DATE: JULY 6, 2013

END DATE: JANUARY 17, 2015



INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3-A4	SURVEY CONTROL
B1-B4	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
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E1-E6	DETAILS
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G1-G17	APPROACH PLAN & PROFILE
H1-H6	SIGNING & STRIPING
J1-J4	HIGHWAY ILLUMINATION
M1-M3	RETAINING WALL DETAILS
P1-P6	EROSION & SEDIMENT CONTROL PLANS
R1-R11	RIGHT-OF-WAY PLANS
T1-T2	TRAFFIC CONTROL PLANS
U1-U5	UTILITY POWER PLANS
U6-U9	UTILITY POWER STAKING SHEETS
V1-V14	UTILITY COMMUNICATION PLANS

DESIGN DESIGNATION

A.D.T. 2010	=	6,580
A.D.T. 2030	=	7,270
D.H.V. (10.8%) 2030	=	780
% T	=	5.5%
V	=	45 M.P.H.
E.A.L.	=	650,000

PROJECT SUMMARY

CDS ROUTE NO.	=	291500
CDS MILEPOINT	=	4.68 to 6.46
LENGTH OF PROJECT	=	9,015 ft (1.71 mi)
LENGTH OF PAVING	=	9,015 ft (1.71 mi)
WIDTH OF PAVING	=	36-60 FT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

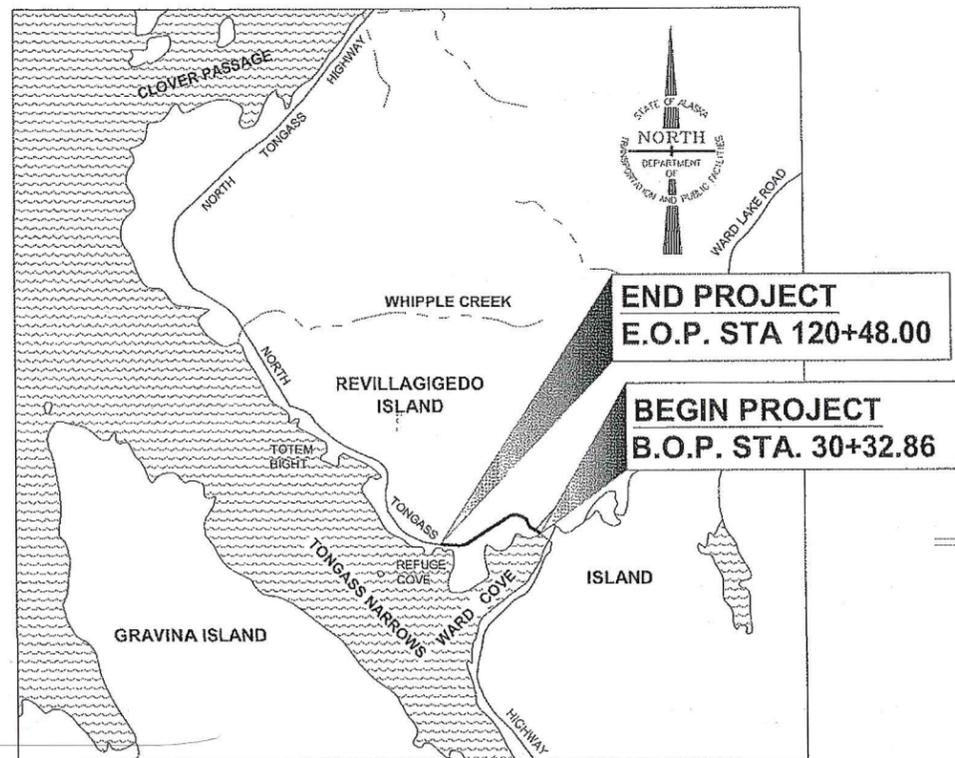
A-1	D-22.01	F-01.01	G-20.11	M-13.01	S-23.00
C-03.10	D-24.00	F-03.01	G-30.00	M-16.01	S-30.03
C-04.12	D-25.00	G-00.02	G-31.00	M-20.13	T-06.00
C-05.20	D-26.02	G-04.06S	I-81.00	M-23.12	T-20.03
D-01.02	D-35.00	G-04.07W	L-03.10	S-00.11	T-21.03
D-04.21	D-36.00	G-10.01	L-23.01	S-05.01	T-22.03
D-06.10	E-13.00	G-13.00	L-26.00	S-20.10	U-03.00

THE FOLLOWING KETCHIKAN PUBLIC UTILITIES DRAWINGS APPLY TO THIS PROJECT:

A5-1	C8-2	E1-2 A, C	F3.16	M2-12	VC1-R
A6	C8-11	E2-2, E2-2TEL	G39	M5-1 TO 5-8	VC2-R
C2-2	C9-N	E2-2A-C	J5-16	M5-9 TO 16	VC7-1
C7	C9-1N	E3-10	K5-16	G310	VC8
C8	E1-2, E1-2TEL	F2	M2-11	G312	VC8-R

UTILITY CONTACTS

KETCHIKAN PUBLIC UTILITIES ELECTRICAL DEPARTMENT	JEFF HARRISON	(907) 228-5442
KETCHIKAN PUBLIC UTILITIES TELECOMMUNICATIONS DIVISION	RAUL MOJE	(907) 228-5483
GCI COMMUNICATIONS	BUZZ HASSON	(907) 220-7111



VICINITY MAP

PATH: Q:\KTN68973\PLANSET\68973_A1_TITLE(REALIGN).DWG TAB:A1
Wednesday, January 23, 2013 2:25:09 PM
PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION



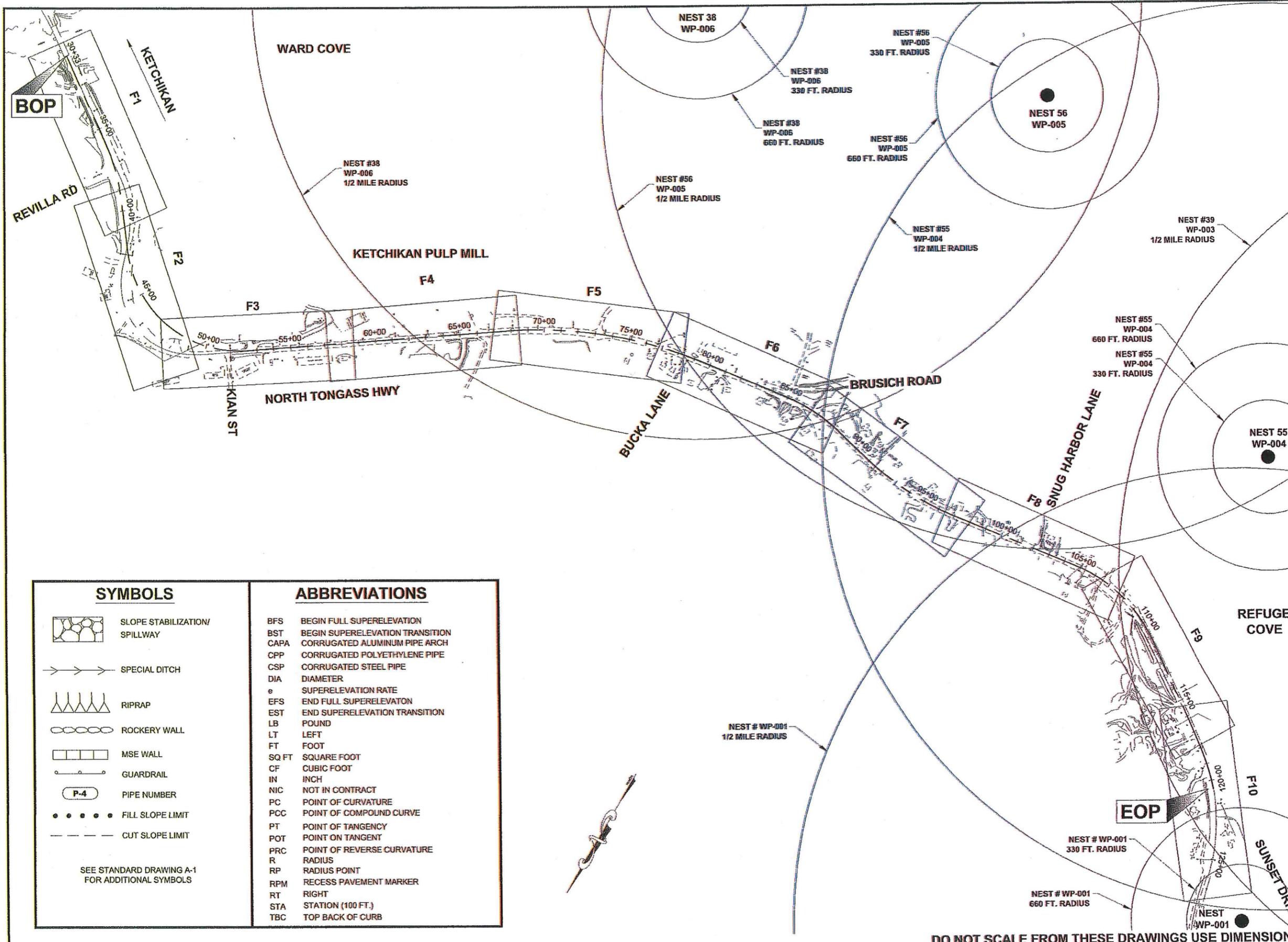
APPROVED: *Chuck Correa* 2/11/13
REGIONAL PRE-CONSTRUCTION ENGINEER
CHUCK CORREA, P.E. DATE

APPROVED: *Chuck Correa* 2/11/13
DIRECTOR, SOUTHEAST REGION
ALBERT H. CLOUGH, CPG DATE

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD
CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68973	2013	A1	100



PATH: Q:\KTN\68973\PLANSET\68973_A2_PROJ_LEGD(REALIG		
GRANTHAM, RICK L (DOT)		
TAB: A2 Friday, January 11, 2013 11:17:34 AM		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
CHECKED BY: K. KARPSTEIN		
DESIGNED BY: N. GEARY		
DRAWN BY: N. GEARY, R. GRANTHAM		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION		
KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973		
LEGEND		
PROJECT DESIGNATION		
68973		
STATE	YEAR	
ALASKA	2013	
SHEET NUMBER	TOTAL SHEETS	
A2	100	

SYMBOLS	ABBREVIATIONS
	BFS BEGIN FULL SUPERELEVATION
	BST BEGIN SUPERELEVATION TRANSITION
	CAPA CORRUGATED ALUMINUM PIPE ARCH
	CPP CORRUGATED POLYETHYLENE PIPE
	CSP CORRUGATED STEEL PIPE
	DIA DIAMETER
	e SUPERELEVATION RATE
	EFS END FULL SUPERELEVATION
	EST END SUPERELEVATION TRANSITION
	LB POUND
	LT LEFT
	FT FOOT
	SQ FT SQUARE FOOT
	CF CUBIC FOOT
	IN INCH
	NIC NOT IN CONTRACT
	PC POINT OF CURVATURE
	PCC POINT OF COMPOUND CURVE
	PT POINT OF TANGENCY
	POT POINT ON TANGENT
	PRC POINT OF REVERSE CURVATURE
	R RADIUS
	RP RADIUS POINT
	RPM RECESS PAVEMENT MARKER
	RT RIGHT
	STA STATION (100 FT.)
	TBC TOP BACK OF CURB

SEE STANDARD DRAWING A-1 FOR ADDITIONAL SYMBOLS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

HORIZONTAL CONTROL

THE BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT WAS DERIVED FROM GPS OBSERVATIONS PERFORMED BY DOT/PF ON PAIRS OF CENTERLINE MONUMENTS AT REVILLA ROAD AND AT WHIPPLE CREEK. A TRAVERSE WAS RUN BY TONER-NORDLING AND ASSOCIATES (CURRENTLY DOWL HKM) BETWEEN SAID PAIRS AND ADJUSTED BY TNA. CONTROL TRAVERSE WAS THEN SCALED TO GROUND DISTANCES AND ROTATED TO GEODETIC BEARINGS.

FOR THIS PHASE OF THIS PROJECT THE CONTROL BASE IS OUTLINED IN COORDINATE TABLES. THESE COORDINATES ARE NOT TRUE STATE PLANE BUT RATHER A LOCAL SYSTEM NEAR STATE PLANE VALUES.

TRANSFORMATION PARAMETERS RELATING THE LOCAL GROUND BASED COORDINATE SYSTEM TO ALASKA STATE PLANE ZONE 1 US FEET WERE COMPUTED POST TRAVERSE BY DOT/PF. OPUS WAS USED TO CONTROL THE BASE STATION ON POINT #435 AND SIX GPS TIES TO NETWORK CONTROL CONFIRMED THE FOLLOWING TRANSFORMATION VALUES.
 GRID SCALE FACTOR : 0.99990085
 ROTATION TO GRID NORTH : 1°35'14"
 LOCAL NORTHING: 1,316,047.0920'
 LOCAL EASTING: 3,079,528.6740'
 AKSPC GRID NORTHING: 1,315,746.0455'
 AKSPC GRID EASTING: 3,079,408.2788'

VERTICAL CONTROL

THE BASIS OF VERTICAL CONTROL IS A BRASS CAP MONUMENT FOUND IN THE NE BRIDGE ABUTMENT OF WHIPPLE CREEK BRIDGE. THE ACCEPTED ELEVATION OF THIS POINT IS 135.79' ABOVE MLLW.

LEVELS WERE RUN THROUGH THE CONTROL NETWORK AND AS SUCH ALL CONTROL MONUMENTS HAVE VALID ELEVATIONS REFERENCED IN THE CONTROL TABLE.

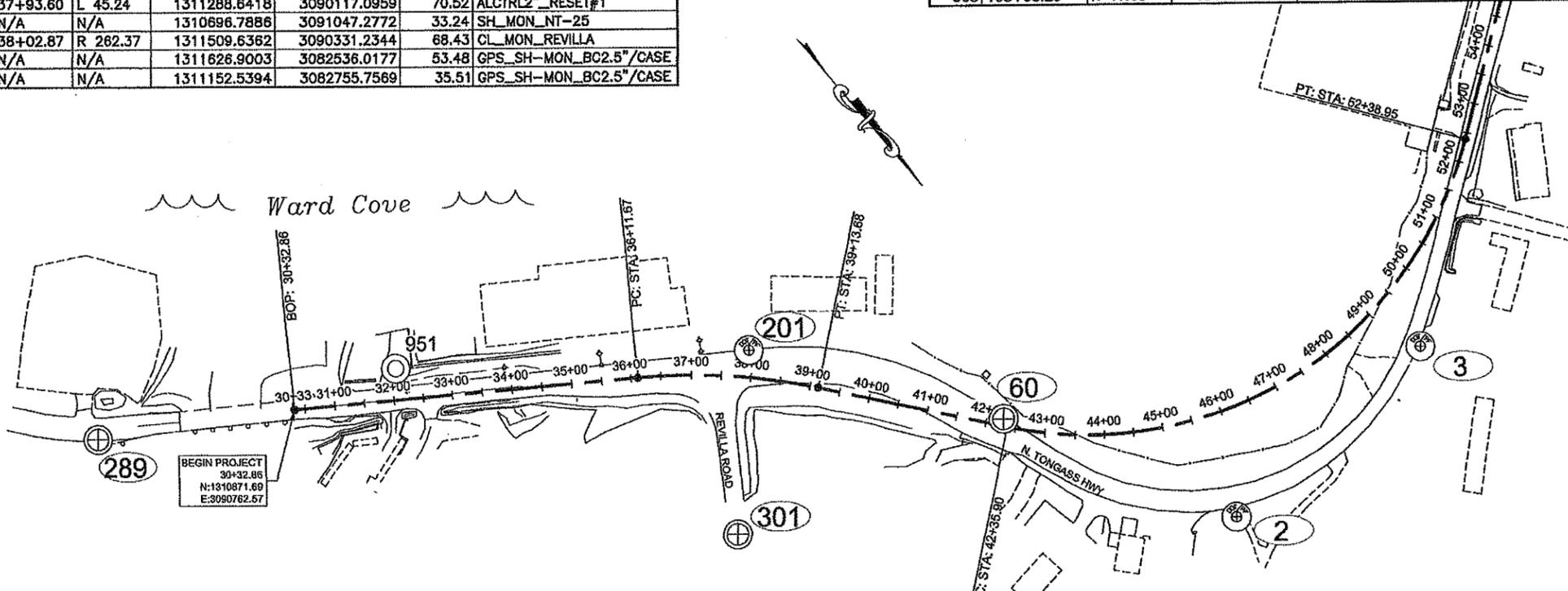
MONUMENT NOTES:

1. If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

2. Whether listed or not, all monuments, property markers, or accessories that will be disturbed or buried shall be referenced prior to being disturbed, and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction engineer for review prior to recording. Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

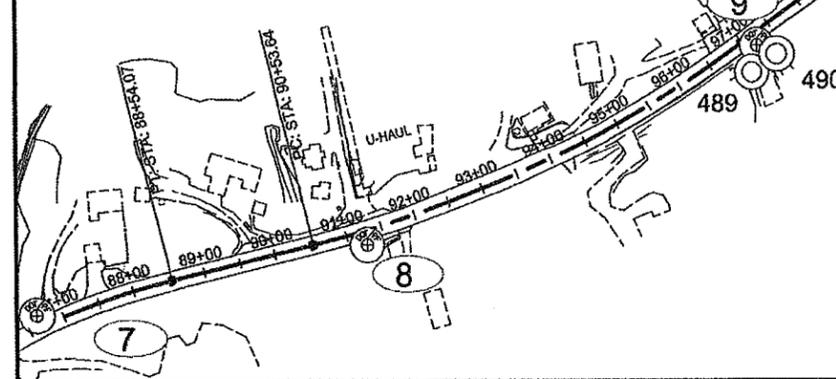
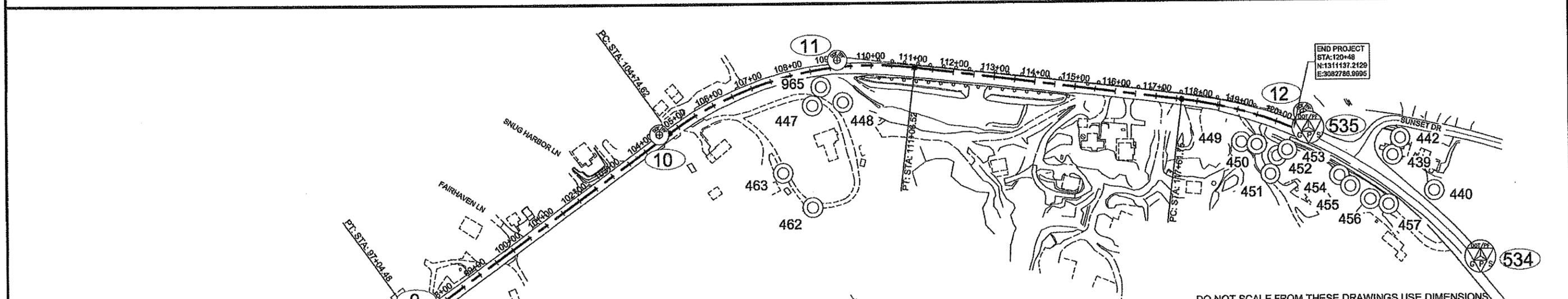
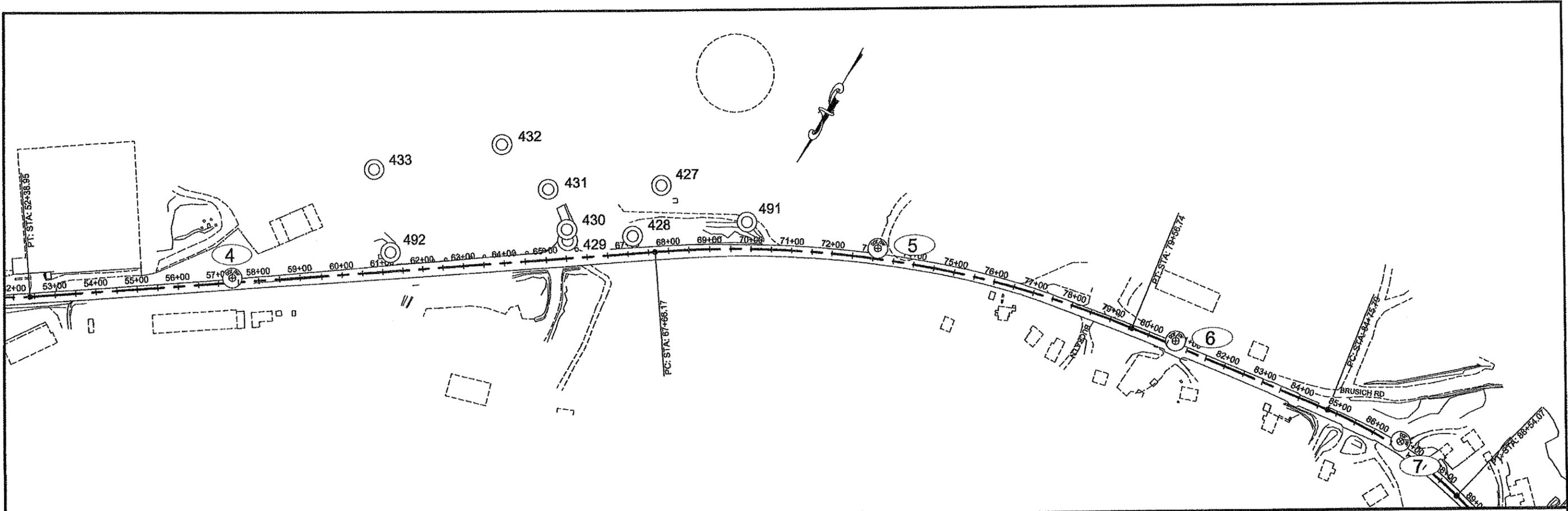
68973 CONTROL						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
2	45+71.57	R 174.33	1312028.8411	3089678.6260	123.17	ALCTRL2_NT-2
3	49+19.63	R 99.99	1312015.6343	3089257.1428	146.65	ALCTRL2_NT-3
4	57+35.23	L 11.60	1311510.3353	3088573.4596	162.38	ALCTRL2_NT-4
5	73+08.92	L 25.18	1310647.1748	3087255.3465	116.71	ALCTRL2_NT-5
6	80+66.03	L 16.26	1310472.5368	3086515.6466	106.78	ALCTRL2_NT-6
7	86+66.97	L 16.56	1310401.4528	3085916.6044	78.63	ALCTRL2_NT-7
8	91+23.79	R 19.19	1310529.6024	3085474.7910	54.83	ALCTRL2_NT-8
9	97+19.12	R 15.33	1310542.3851	3084876.7416	56.74	ALCTRL2_NT-9
10	104+50.49	L 12.85	1310411.3841	3084156.6449	36.93	ALCTRL2_NT-10
11	109+18.07	L 16.95	1310459.6858	3083689.6607	27.35	ALCTRL2_NT-11
12	N/A	N/A	131115.0191	3082748.6300	33.22	ALCTRL2_NT-12
60	42+27.36	L 11.89	1311651.4897	3089868.8286	95.67	SH_MON_NT-27
201	37+93.60	L 45.24	1311288.6418	3090117.0959	70.52	ALCTRL2_RESET#1
289	N/A	N/A	1310896.7886	3091047.2772	33.24	SH_MON_NT-25
301	38+02.87	R 262.37	1311509.6362	3090331.2344	68.43	CL_MON_REVILLA
534	N/A	N/A	1311826.9003	3082536.0177	53.48	GPS_SH-MON_BC2.5"/CASE
535	N/A	N/A	1311152.5394	3082755.7569	35.51	GPS_SH-MON_BC2.5"/CASE

68973 PROPERTY						
POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	
427	67+93.51	L 159.53	1310784.0074	3087788.3140	ALSEC_L2/L3/ROW	
428	67+14.24	L 42.26	1310926.0817	3087787.2971	ALSEC_L2/ROW	
429	65+56.25	L 43.22	1311015.5236	3087917.5363	ALSEC_L1/L2?	
430	65+56.37	L 70.01	1310993.4587	3087932.7333	ALSEC_L1/L2	
431	65+18.66	L 170.33	1310932.6383	3088020.9825	ALSEC_L1/L2	
432	64+15.57	L 286.69	1310895.9921	3088172.0633	ALSEC_L1/L2	
433	60+97.65	L 249.14	1311108.3682	3088411.6958	ALSEC_L1/L2/L3	
439	N/A	N/A	1311309.1690	3082605.6619	ALSEC2.5" SET_LOTD-1A_S2295	
440	N/A	N/A	1311432.4525	3082557.5846	ALSEC2.5" SET_LOTD-1A_S2295	
442	N/A	N/A	1311281.9716	3082569.3385	ALSEC2.5" SET_LOTD-1A_S2295	
447	108+37.37	R 82.71	1310527.4467	3083796.0810	ALSEC2" L2B_TR-A_S2343/ROW_SET	
448	109+21.71	R 86.11	1310556.2313	3083725.8789	ALSEC2" L2B_TR-A_S2343/ROW_SET	
449	119+28.48	R 73.72	1311103.5855	3082919.1092	ALSEC2" TR-C_S2343/ROW_SET	
450	119+69.04	R 68.85	1311126.9496	3082886.7996	ALSEC2" TR-C_S2343/ROW_SET	
451	120+29.73	R 125.34	1311205.9175	3082893.1167	ALSEC2" L1-A_S2295/ROW_SET	
452	120+30.76	R 77.97	1311175.6477	3082856.6685	ALSEC2" L1-A_S2295/ROW_SET	
453	N/A	N/A	1311175.1017	3082826.9745	ALSEC2" L1-A_S2295/ROW_SET	
454	N/A	N/A	1311290.6261	3082743.5280	ALSEC2" ROW_SET	
455	N/A	N/A	1311326.4502	3082732.3960	ALSEC2" LD3_S2295/ROW_SET	
456	N/A	N/A	1311377.4753	3082704.6958	ALSEC2" LD3_S2295/ROW_SET	
457	N/A	N/A	1311408.9993	3082671.8344	ALSEC2" LD3_S2295/ROW_SET	
462	107+56.91	R 321.24	1310743.7076	3083913.1632	PLASCAP_POOL	
463	106+96.50	R 219.04	1310636.3364	3083937.0810	PLASCAP_POOL	
489	96+91.93	R 40.40	1310571.0369	3084900.4093	ALSEC2" L1/ROW	
490	97+34.33	R 40.82	1310565.4728	3084858.0864	ALSEC2" L12/ROW	
491	69+89.21	L 64.61	1310755.3552	3087564.6584	ALSEC2.5" S1754_L1A_B4/ROW	
492	61+22.72	L 45.91	1311260.8912	3088274.9609	ALSEC2" R&M-K	
951	32+07.75	L 52.81	1310928.5933	3090588.9626	ALSEC2" WCWR_L3_TR300	
965	108+68.23	R 41.69	1310497.2000	3083756.2792	PLASCAP_S3248	



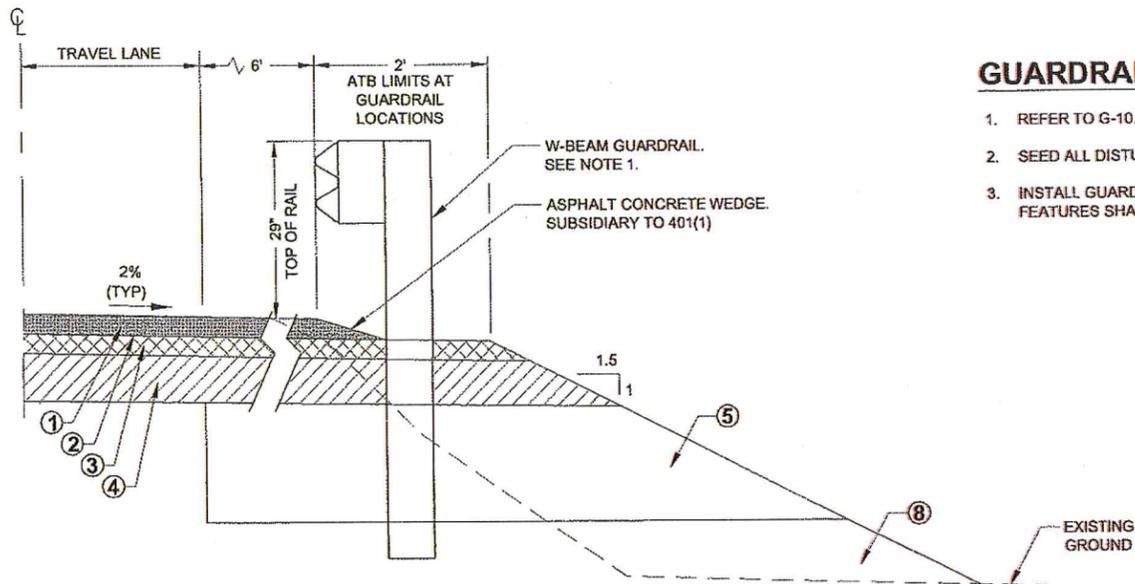
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: R. DAVIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
DESIGNED BY: R. DAVIS	KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973
DRAWN BY: R. DAVIS / NGEARY	SURVEY CONTROL
PATH: Q:\KTN\68973\SV\3D\SOURCE DWGS\BASEMAP\68973_A3_CONTROL.DWG	REVISIONS
TAB: A3 Tuesday, January 08, 2013 12:00:25 PM PAFPI, JAMES M (DOT)	NO. DATE DESCRIPTION
	PROJECT DESIGNATION: 68973
	YEAR: 2013
	SHEET NO. A3
	TOTAL SHEETS 100



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: R. DAVIS 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973																		
DESIGNED BY: R. DAVIS DRAWN BY: R. DAVIS / NGEARY		SURVEY CONTROL																		
PATH: Q:\KTN\68973\SOURCE DWGS\BASEMAP\68973_A3_CONTROL.DWG TAB: A4 Tuesday, January 08, 2013 11:58:08 AM PAPI, JAMES M (DOT)																				
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				<table border="1"> <thead> <tr> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td>68973</td> <td>2013</td> <td>A4</td> <td>100</td> </tr> </tbody> </table>		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	68973	2013	A4	100
REVISIONS																				
NO.	DATE	DESCRIPTION																		
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																	
68973	2013	A4	100																	



GUARDRAIL TYPICAL SECTION NOTES:

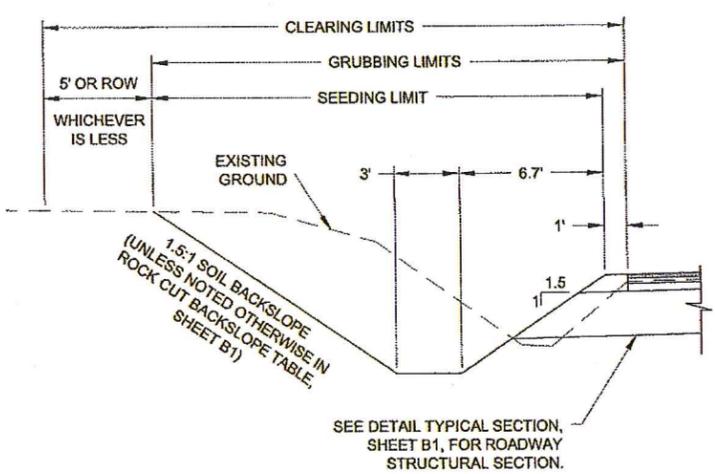
1. REFER TO G-10.01 CASE 2 STANDARD DRAWINGS FOR GUARDRAIL DETAILS.
2. SEED ALL DISTURBED SOIL SLOPES.
3. INSTALL GUARDRAIL AT 29" HIGH. ALL OTHER GUARDRAIL COMPONENTS AND FEATURES SHALL BE INSTALLED PER STANDARD DRAWINGS.

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE: *RK* DATE: 10/23/17

GUARDRAIL TYPICAL SECTION

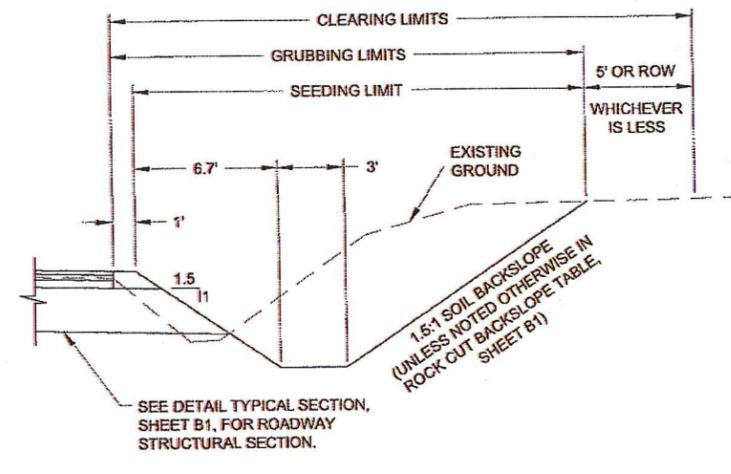
(SEE GUARDRAIL SUMMARY FOR GUARDRAIL LOCATIONS)

NOTE: SEE SHEET B1, TYPICAL SECTION, FOR ROADWAY STRUCTURAL SECTION & EMBANKMENT CONSTRUCTION.



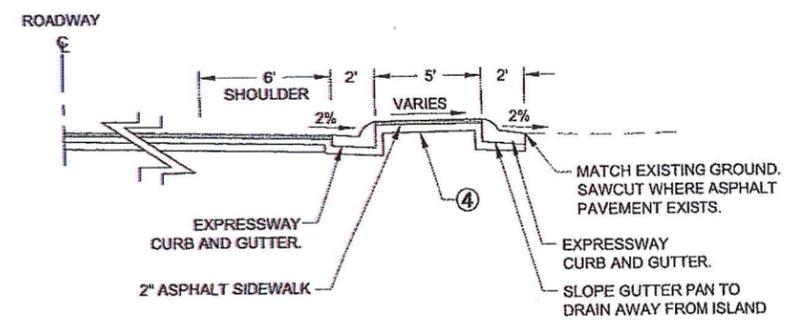
LT DEEPENED DITCH TYPICAL SECTION

("O" STA. 52+95 TO 53+35)



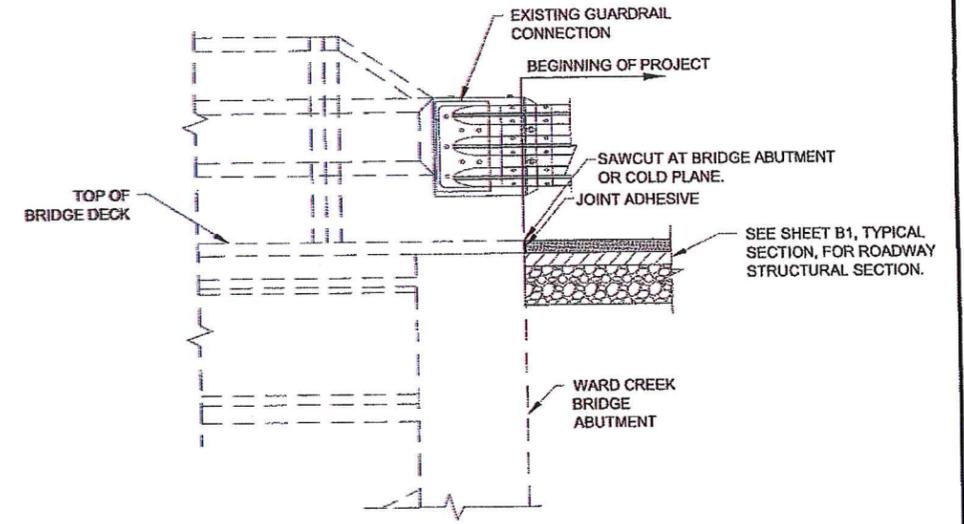
RT DEEPENED DITCH TYPICAL SECTION

("O" STA. 64+25 TO 69+83)
 ("O" STA. 84+15 TO 85+70)



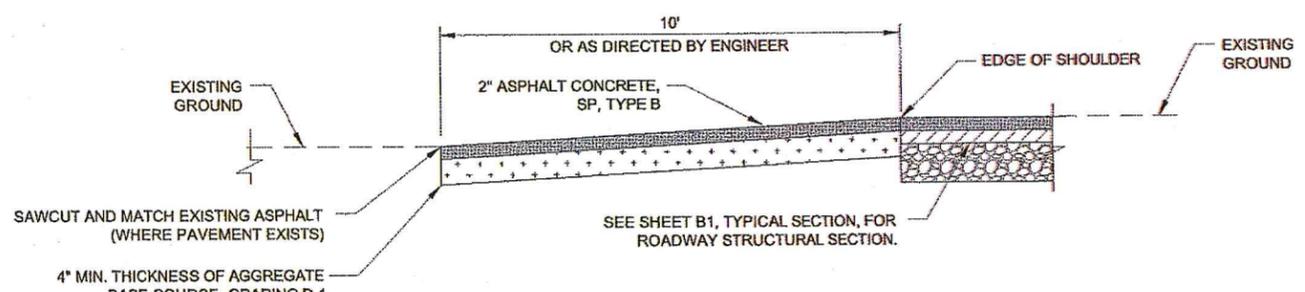
ISLAND SECTION

SEE SHEET E5 FOR END RAMPING
 ("O" STA. 51+57.74 TO STA. 52+70.08)
 ("O" STA. 92+30.17 TO STA. 92+99.65)



BEGINNING OF PROJECT DETAIL

("O" BOP STA. 30+32.86)



TYPICAL DRIVEWAY PROFILE

NTS

NOTE: IF EXISTING EDGE OF DRIVEWAY PAVING IS WITHIN 10' OF THE LIMITS SHOWN, REPLACE THE FULL LENGTH OF THE DRIVEWAY OR TO RIGHT OF WAY, WHICHEVER IS LESS.

LEGEND

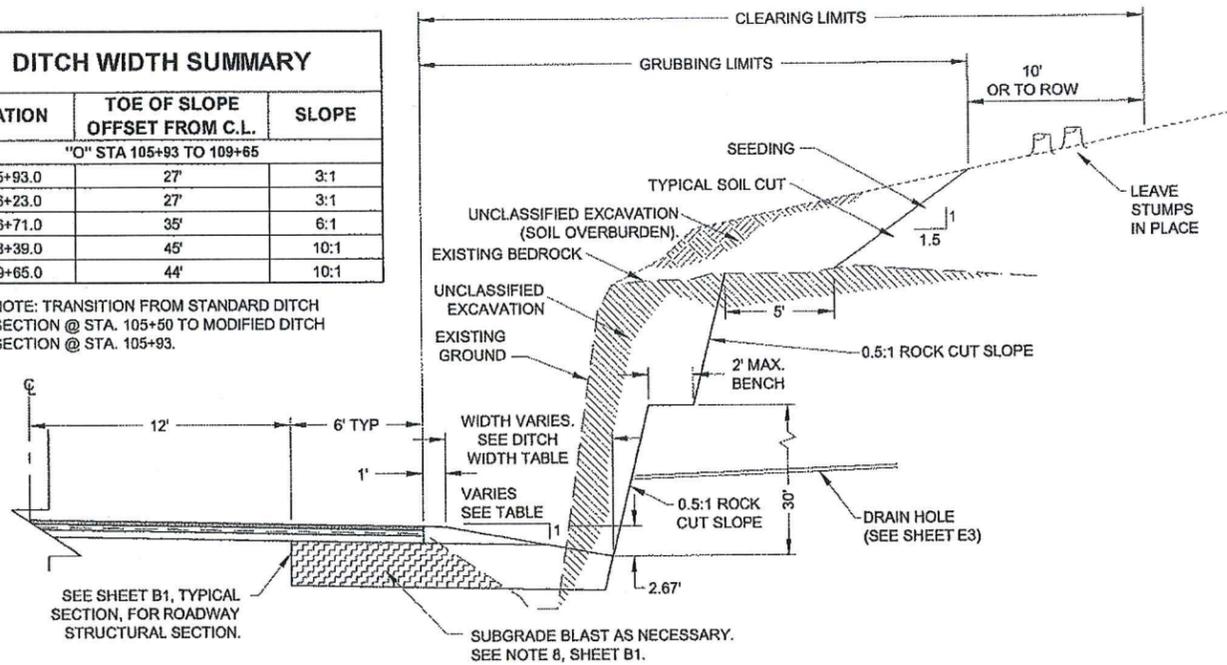
- 1 2" ASPHALT CONCRETE PAVEMENT, SP, TYPE B
- 2 STE-1 ASPHALT FOR TACK COAT
- 3 3" ASPHALT TREATED BASE COURSE
- 4 4" AGGREGATE BASE COURSE, GRADING D-1
- 5 24" SELECTED MATERIAL, TYPE A
- 6 EXISTING PAVEMENT. SEE ASPHALT THICKNESS TABLE, SHEET B3
- 7 AGGREGATE BASE COURSE, GRADING D-1
- 8 USABLE EXCAVATION MEETING REQUIREMENTS OF SELECTED MATERIAL, TYPE C

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

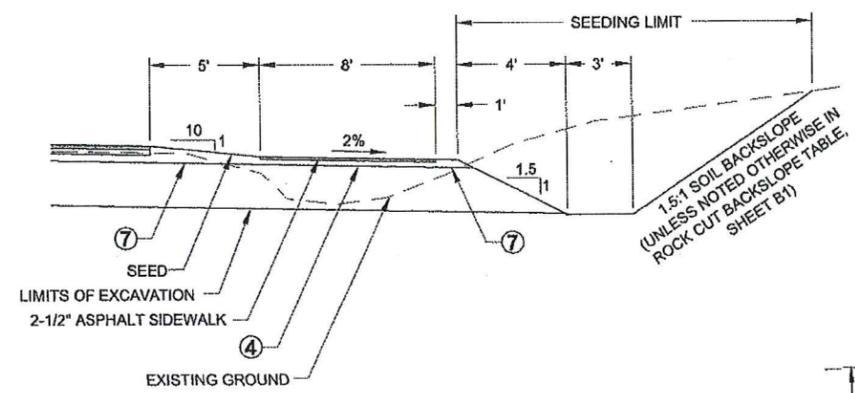
CHECKED BY: K. KARPSTEIN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973				
DESIGNED BY: N. GEARY DRAWN BY: R. GRANTHAM P&T: C:\KTN68973\PLANS\SET68973_B1-4_TYP\REALIGN.DWG T&E: B2 Thursday, January 31, 2013 1:13:03 PM GRANTHAM, RICK L (DOT)		TYPICAL SECTIONS				
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68973	2013	B2	100

DITCH WIDTH SUMMARY		
STATION	TOE OF SLOPE OFFSET FROM C.L.	SLOPE
"O" STA 105+93 TO 109+65		
105+93.0	27'	3:1
106+23.0	27'	3:1
108+71.0	35'	6:1
108+39.0	45'	10:1
109+65.0	44'	10:1

NOTE: TRANSITION FROM STANDARD DITCH SECTION @ STA. 105+50 TO MODIFIED DITCH SECTION @ STA. 105+93.



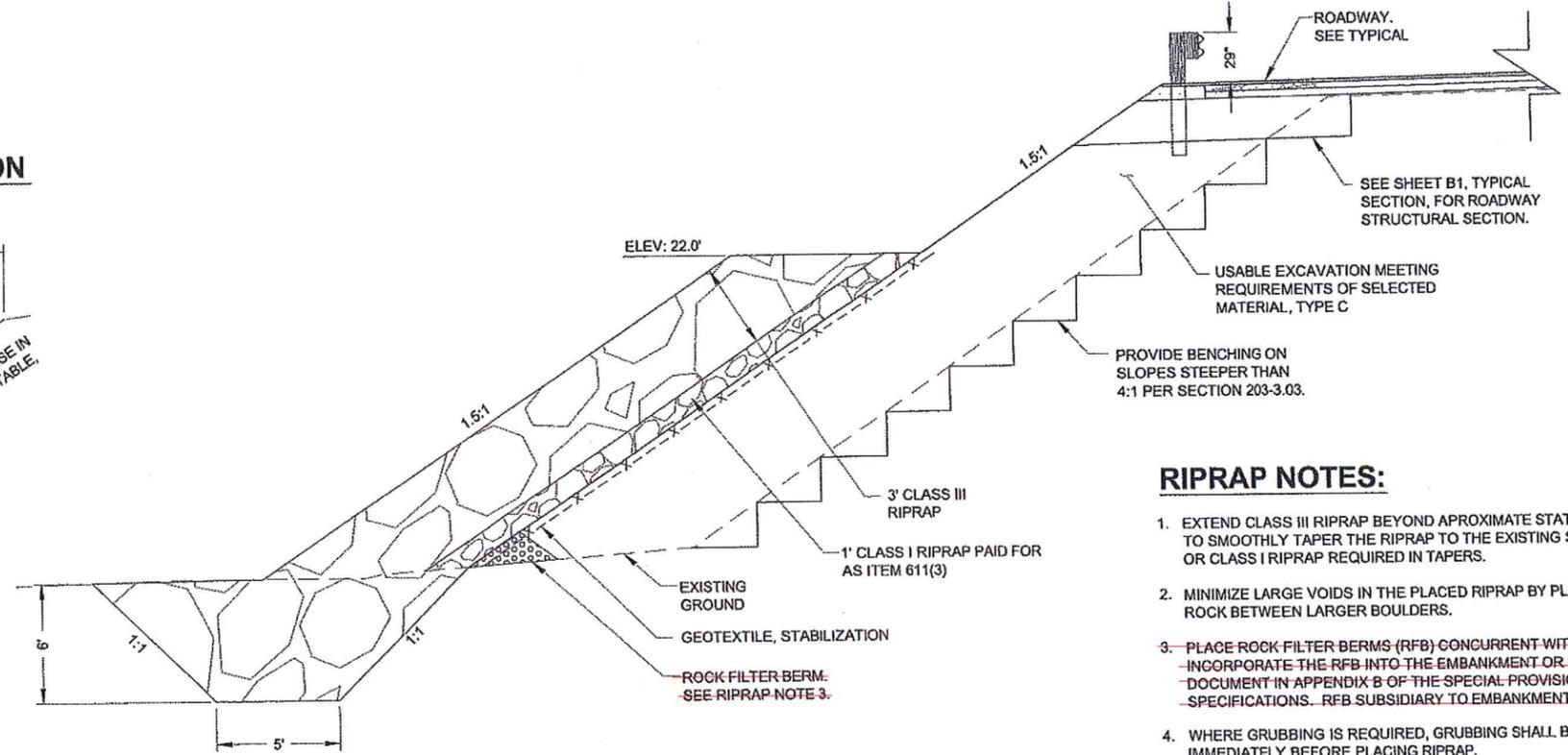
VARIES FORESLOPE ROCK CUT TYPICAL SECTION
("O" STA. 105+93 - 109+65)



RT PATH TYPICAL SECTION
("O" STA. 115+30 TO 120+48)

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE RR DATE 10/23/17

EXISTING ASPHALT THICKNESS					
TEST HOLE NO.	LOCATION	THICKNESS (FT)	TEST HOLE NO.	LOCATION	THICKNESS (FT)
TH-21	51+89.18, 14.3' RT	0.40	TH-14	84+63.38, 5.0' RT	0.30
TH-20	54+74.00, 15.8' RT	0.50	TH-15	89+95.67, 11.8' RT	0.50
TH-19	59+10.08, 21.7' RT	0.50	TH-10	95+49.09., 11.7' RT	0.30
TH-18	64+29.72, 18.7' RT	0.40	TH-11	100+05.66, 7.1' RT	0.10
TH-17	69+43.35, 5.3' LT	0.40	TH-12	103+07.68, 6.2' RT	0.20
TH-16	73+97.09, 5.4' LT	0.50	TH-07	106+36.83, 4.1' RT	0.42
TH-13	79+42.00, 7.6' RT	0.50	TH-08	113+22.71, 10.0' RT	0.35
			TH-09	118+07.41, 9.4' RT	0.55



RIPRAP NOTES:

1. EXTEND CLASS III RIPRAP BEYOND APPROXIMATE STATIONS INDICATED TO SMOOTHLY TAPER THE RIPRAP TO THE EXISTING SLOPE. NO FABRIC OR CLASS I RIPRAP REQUIRED IN TAPERS.
2. MINIMIZE LARGE VOIDS IN THE PLACED RIPRAP BY PLACING SMALLER ROCK BETWEEN LARGER BOULDERS.
3. PLACE ROCK FILTER BERMS (RFB) CONCURRENT WITH GRUBBING AND INCORPORATE THE RFB INTO THE EMBANKMENT OR RIPRAP. SEE THE ESCP DOCUMENT IN APPENDIX B OF THE SPECIAL PROVISIONS FOR MATERIAL SPECIFICATIONS. RFB SUBSIDIARY TO EMBANKMENT CONSTRUCTION.
4. WHERE GRUBBING IS REQUIRED, GRUBBING SHALL BE DONE IMMEDIATELY BEFORE PLACING RIPRAP.

RIPRAP TYPICAL SECTION
APPROXIMATE STATIONS: "O" STA. 108+63 TO STA. 119+90

LEGEND	
①	2" ASPHALT CONCRETE PAVEMENT, SP, TYPE B
②	STE-1 ASPHALT FOR TACK COAT
③	3" ASPHALT TREATED BASE COURSE
④	4" AGGREGATE BASE COURSE, GRADING D-1
⑤	24" SELECTED MATERIAL, TYPE A
⑥	EXISTING PAVEMENT. SEE ASPHALT THICKNESS TABLE, SHEET B3
⑦	AGGREGATE BASE COURSE, GRADING D-1
⑧	USABLE EXCAVATION MEETING REQUIREMENTS OF SELECTED MATERIAL, TYPE C

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

49th
Karl D. Karpstein
REGISTERED PROFESSIONAL ENGINEER
CE-12904
1/31/13

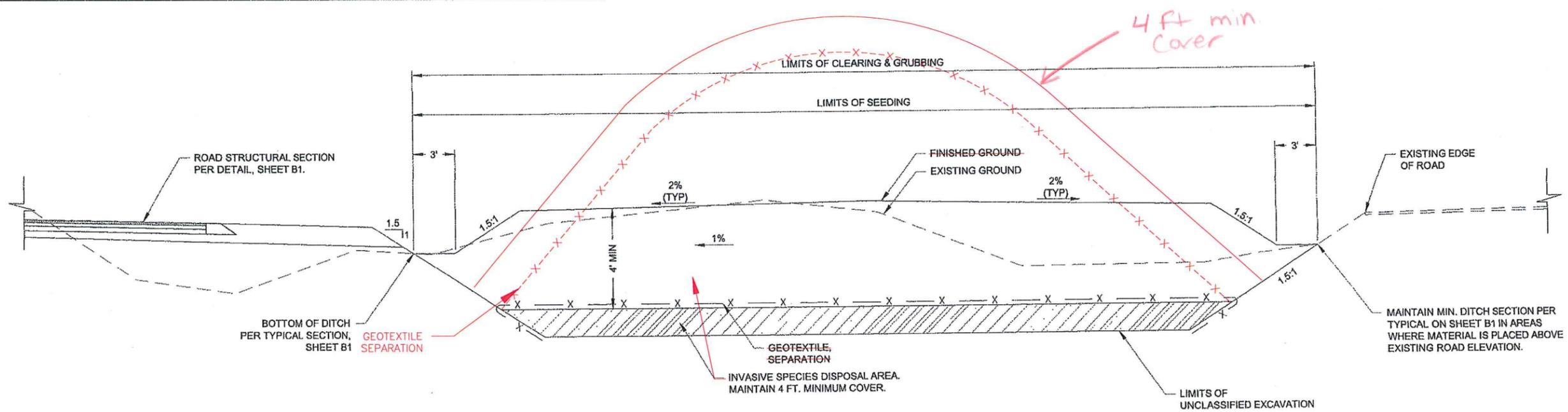
DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

PATH: Q:\KTN\68973\PLANSET\B1-4_TYP\REALIGN.DWG
TAB: B3 Thursday, January 31, 2013 2:17:38 PM GRANTHAM, RICK L (DOT)

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

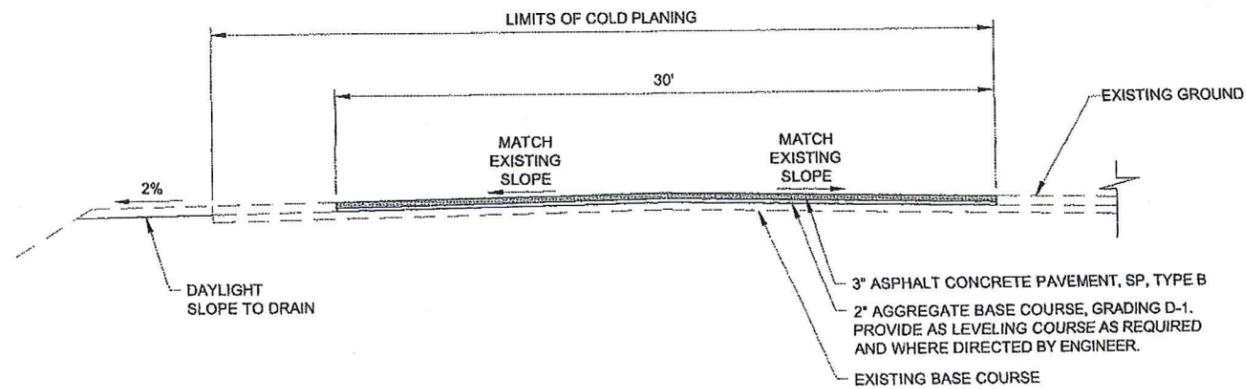
TYPICAL SECTIONS

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68973	2013	B3	100



INVASIVE SPECIES DISPOSAL AREA DETAIL

NTS
STA. 44+50 TO STA. 48+50



WARD COVE MARKET DRIVEWAY SECTION

NTS

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE DK DATE 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION																						
DESIGNED BY: N. GEARY DRAWN BY: R. GRANTHAM		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973																						
PATH: Q:\KTN\68973\PLANSET\68973_B1-4_TYP(REALIGN).DWG TAB: B4 Wednesday, February 13, 2013 9:54:16 AM GRANTHAM, RICK L (DOT)		TYPICAL SECTIONS																						
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>68973</td> <td>2013</td> <td>B4</td> <td>100</td> </tr> </tbody> </table>		REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE	DESCRIPTION								68973	2013	B4	100		
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																		
NO.	DATE	DESCRIPTION																						
			68973	2013	B4	100																		

ESTIMATE OF QUANTITIES			
ITEM NO	ITEM DESCRIPTION	PAY UNIT	QUANTITY
201 (3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202 (4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	2,044-1894.9
202 (8)	REMOVAL OF INLET	EACH	3- 4
202 (10)	SINGLE MAIL BOX INSTALLATION	EACH	10 9
202 (11)	MULTIPLE MAIL BOX INSTALLATION	EACH	4
202 (12)	DOUBLE MAIL BOX INSTALLATION	EACH	6- 4
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	-40,000-0
203 (6A)	BORROW, TYPE A	TON	-3,400-41,780.6
203 (10)	CONTROLLED BLASTING	SQUARE YARD	-3,000-2213.8
203 (11)	DITCHLINE/SUBGRADE BLASTING	SQUARE YARD	-500-0
203 (12)	DRAIN HOLES	LINEAR FOOT	-1,345-1590
203 (13)	STABILIZATION - ROCK BOLT	EACH	-40-18
203 (19)	PRE-BLAST SURVEY	EACH	-15-30
203 (20)	CONTROL OF INVASIVE PLANTS	LUMP SUM	ALL REQUIRED
203 (21)	FLOWABLE FILL	CUBIC YARD	-100-96
203 (22)	SLOPE REPAIR	LUMP SUM	ALL REQUIRED
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	TON	-8,500-14,547.3
306 (1)	ATB	TON	-7,910-6959.88
401 (1)	ASPHALT CONCRETE, SP, TYPE B	TON	-6,330-5876.87
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	TON	-320-384.3
401 (3)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
401 (10)	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	-12-9.69
406 (1)	PAVEMENT COLD PLANING	SQUARE YARD	-55,060-29,196
511 (1)	MECHANICALLY STABILIZED EARTH WALL	SQUARE FOOT	-1,040-3508
530 (1)	GRAVITY BLOCK WALL	SQUARE FOOT	-1,365-0
603 (21)-18	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	-1,172-1438.4
603 (21)-24	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	-338-606
603 (21)-30	30 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	-229-235.5
603 (21)-36	36 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	-705-617.35
603 (22)-36	LINE EXISTING 36 INCH PIPE	LINEAR FOOT	73 72.75
603 (22)-60	LINE EXISTING 60 INCH PIPE	LINEAR FOOT	-65-72.60
603 (22)-72	LINE EXISTING 72 INCH PIPE	LINEAR FOOT	-137-120.11
604 (1)	STORM SEWER MANHOLE	EACH	-1-3
604 (5)	INLET, TYPE A	EACH	-1-0
605 (6)	6 INCH PERFORATED CORRUGATED POLYETHYLENE PIPE FOR UNDERDRAIN	LINEAR FOOT	-360-508

NEW ITEMS ADDED BY CHANGE ORDER			
ITEM NO.	ITEM	UNIT	QUANTITY
203(3A)	Unclassified Excavation (CO #17)	Lump Sum	All Req'd
203(20A)	Control of Invasive Plants (CO #1)	Square Foot	92,505
203(23)	Additional Guardrail Embankment (CO #2)	Lump Sum	All Req'd
203(24)	Rock Excavation and Ditching for P-6 (CO #4)	Lump Sum	All Req'd
203(25)	Rockery Wall (CO #10)	Lump Sum	All Req'd
203(26)	Rockfill Buttress (CO #16)	Lump Sum	All Req'd
203(27)	Rock Reinforced Toe Support (CO #16)	Lump Sum	All Req'd
203(28)	Slope Stabilization and Obstruction Relocation (CO #13)	Lump Sum	All Req'd
401(4)	Asphalt Concrete, Type II (CO #18)	Ton	92.47
603(21)-36A	Price Reduction for 36 inch Culvert (CO#18)	Lump Sum	All Req'd
603(22)-a	Excess Specialty Culvert (CO #11)	Lump Sum	All Req'd
606(12)	Guardrail/Bridge Rail Connection (CO #12)	Each	2
606(13)A	Guardrail Section (CO#7)	Lump Sum	All Req'd
615(7)	Sign Relocation (CO #18)	Lump Sum	All Req'd
626(4)	Sewer Avoidance and Coordination (CO #3)	Lump Sum	All Req'd
639(4)	Driveway Reconstruction (CO #18)	Lump Sum	All Req'd
639(5)	Alignment Reconstruction (CO #18)	Lump Sum	All Req'd
641(1a)	Erosion, Sediment And Pollution Control Administration - Extension (CO #7)	Lump Sum	All Req'd
641(2a)	Temporary Erosion And Pollution Control - Extension (CO #7)	Lump Sum	All Req'd
641(8)	Temporary Erosion And Pollution Control - Extension (CO #7)	Lump Sum	All Req'd
642(1)A	Construction Surveying (CO #17)	Lump Sum	All Req'd
643(2a)	Traffic Maintenance - Extension (CO#7)	Lump Sum	All Req'd
660(14)	Luminaire Base Adjustment (CO #14)	Lump Sum	All Req'd
663(3)	Additional AEF 200 & 300 (CO #15)	Lump Sum	All Req'd
663(3)A	Telecommunications Construction Additions (CO #19)	Lump Sum	All Req'd
670(13A)	Inlaid Methyl Methacrylate Pavement Markings (CO#9)	Lump Sum	All Req'd
670(14)	Additional Striping Changes (CO#5)	Lump Sum	All Req'd

ESTIMATE OF QUANTITIES			
ITEM NO	ITEM DESCRIPTION	PAY UNIT	QUANTITY
606 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	1,634-1824.3
606 (6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	2,097-2215.2
606 (13)	PARALLEL GUARDRAIL TERMINAL	EACH	7
606 (15)	DOWNSTREAM END ANCHOR	EACH	-3-5
607 (3)	CHAIN LINK FENCE	LINEAR FOOT	-241-284.7
607 (4)	RECONSTRUCTED FENCE	LINEAR FOOT	-50-0
607 (5)	DRIVE GATE	EACH	1
607 (10)	REMOVABLE BOLLARD	EACH	2
608 (3)	ASPHALT SIDEWALK	SQUARE YARD	-2,200-865.2
609 (2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	-525-484.2
611 (1)	RIPRAP, CLASS III	CUBIC YARD	-1,970-3757.4
611 (3)	RIPRAP, CLASS I	SQUARE YARD	-2,300-5136.6
615 (1)	STANDARD SIGN	SQUARE FOOT	-395-472.0
618 (1)	SEEDING	ACRE	-3-3.206
625 (3)	ADJUST SANITARY SEWER	EACH	-1-0
629 (1)	GUARDRAIL PAVING	LINEAR FOOT	-1,960-1897
630 (1)	GEOTEXTILE, SEPARATION	SQUARE YARD	-2,425-7778
639 (3)	DRIVEWAY	EACH	-50-56
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640 (4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (5)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED
641 (6)	WITHOLDING	CONTINGENT SUM	ALL REQUIRED
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (3)	THREE PERSON SURVEY PARTY	HOURLY	-80-13.92
642 (4)	SET PRIMARY MONUMENT	EACH	12
642 (6)	REPLACE EXISTING WITH PRIMARY MONUMENT	EACH	-4-1
642 (9)	REFERENCE EXISTING MONUMENT	EACH	-4-0
642 (10)	MONUMENT CASE	EACH	13
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643 (15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643 (23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643 (25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
643 (29)	PUBLIC INFORMATION PROGRAM	LUMP SUM	ALL REQUIRED
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
646 (1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
660 (3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
661 (3)	LOAD CENTER, TYPE 2	EACH	2
662 (1)	POWER LINE CONSTRUCTION	LUMP SUM	ALL REQUIRED
662 (2)	POWER LINE CONSTRUCTION NR	LUMP SUM	ALL REQUIRED
663 (1)	TELECOMMUNICATIONS CONSTRUCTION	LUMP SUM	ALL REQUIRED
663 (2)	TELECOMMUNICATIONS CONSTRUCTION NR	LUMP SUM	ALL REQUIRED
670 (8)	RECESSED PAVEMENT MARKER	EACH	-120-172
670 (13)	INLAID METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE (R2) DATE 4/10/2018

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

ESTIMATE OF QUANTITIES

DESIGNED BY: N. GEARY
 DRAWN BY: R. GRANTHAM

PATH: Q:\KTN68973\PLANSET\68973_C1_EST\REALIGN.DWG
 TAE: C1 Tuesday, February 12, 2013 3:32:03 PM GEARY, NATE (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			68973	2013	C1	100

202 (4) REMOVAL OF CULVERT PIPE

STATION	OFF SET		DIAMETER (IN)	LENGTH (FT)	REMARKS
	LEFT	RIGHT			
31+93		30	18	40.1	DRIVEWAY CSP CULVERT
32+69		27	18	52 50.8	DRIVEWAY CSP CULVERT
37+47		51	24	108	REVELLA ROAD
42+53			36	72	N TONGASS HWY CSP CULVERT
41+10		31	24	49	PARALLEL CSP
42+75		70	30	60	PARALLEL CAP
42+85		70	18	35	DRIVEWAY CSP CULVERT
50+15	20		24	50	REMOVE 50' OF CONCRETE PIPE PER PLAN SHEET
50+25			24	71 75	N TONGASS HWY CSP CULVERT
61+02	26		18	36	DRIVEWAY CULVERT
61+77			30	82 79.5	N TONGASS HWY CSP CULVERT
63+49			24	84 70	N TONGASS HWY CSP CULVERT
65+19		29	18	42	FIRE DEPARTMENT + 69.5 P-7 CO#4
66+06		30	18	28 30	DRIVEWAY CULVERT + 59 P-8 CO#4
76+20		20	12	68	CONCRETE DRIVEWAY CULVERT
77+05	27		18	51 52	DRIVEWAY CSP CULVERT
77+72		24	16	15	IRON PIPE
78+48		25	18	40	BUCKA LANE
78+56	21		18	49 48	DRIVEWAY CSP CULVERT
78+89			24	45	N TONGASS HWY CSP CULVERT
80+80		24	12	36 24	DRIVEWAY CSP CULVERT
80+92			36	124 116	N TONGASS HWY CSP CULVERT
83+95		22	12	39	DRIVEWAY CONCRETE CULVERT
84+75		45	24	38 24	DRIVEWAY CSP CULVERT
85+39		40	24	40	DRIVEWAY CSP CULVERT
91+78		22	18	24	DRIVEWAY CSP CULVERT
94+17		23	24	18	DRIVEWAY CSP CULVERT
95+81			24	55	N TONGASS HWY CSP CULVERT
97+37			24	93 96.4	N TONGASS HWY CSP CULVERT
99+80		21	12	30	DRIVEWAY CSP CULVERT
104+14			60	73	N TONGASS HWY CSP CULVERT
106+06		36	6	20	DRIVEWAY - IRON PIPE
106+57		53	8	20	DRIVEWAY - IRON PIPE
109+55		33	18	28	DRIVEWAY CSP CULVERT
115+16		30	18	60	DRIVEWAY CSP CULVERT
115+82		28	12	21	DRIVEWAY - IRON PIPE
117+02		69	12	21	DRIVEWAY CSP CULVERT
117+11			18	53	N TONGASS HWY CSP CULVERT
117+25		30	18	31	DRIVEWAY CSP CULVERT
118+31			18	56 54	N TONGASS HWY CSP CULVERT
119+54		38	24	72	DRIVEWAY CSP CULVERT
86+20		31	6"	31	6" PIPE

202 (10,11,12) MAIL BOX INSTALLATION

STATION	OFFSET	SINGLE	DOUBLE	MULTIPLE	REMARKS
31+59	33 LT		1		
51+47	38 RT	1			
66+00	33 RT	1			
76+70	20 RT		1		
79+17	20 LT	1			
83+18	40 LT	1			RELOCATE TO ACCOMMODATE DRIVEWAY REALIGNMENT
85+51	37 RT	1			RELOCATE TO NEW DRIVEWAY LOCATION
91+37	20 RT			1	4 BOXES
91+69	20 RT	1			
93+33	20 RT	1			
94+55	20 RT	1			
96+52	20 RT	1			
97+23	20 RT	1			
98+00	20 RT		1		
100+40	20 RT			1	3 BOXES
101+91	20 RT		1		
105+01	20 RT			1	3 BOXES
114+98	20 RT		1		3 BOXES
118+15	20 RT		1		
119+23	20 RT		1		

(603) CULVERT INSTALLATION SUMMARY

PIPE	INLET			OUTLET			LENGTH (FT)	SIZE	REMARKS	APPROX GRADE	
	STATION	OFFSET	INVERT	STATION	OFFSET	INVERT					
P-2	32+96.71	26.6	RT	34.87	31+66.69	32.8	RT	29.52	130.2' 130	36"	4.11%
P-3	36+17.88	43.0	RT	62.04	36+82.75	44.7	RT	55.79	129.1'	36"	4.84%
P-3a	44+28.76	36.8	RT	111.03	43+64.01	37.9	RT	103.76	68.4' 60.0	24"	10.63%
P-3b	50+02.71	34.5	RT	146.42	49+31.54	35.6	RT	142.40	74.9' 75.0	24"	5.34%
P-3c	50+36.90	67.1	RT	140.01	50+17.26	47.7	LT	138.77	116.5' 122.3	30"	CONNECT TO EXISTING INLET
P-3d	43+11.27	83.1	RT	101.04	42+67.36	57.1	RT	98.48	55.1' 60	18"	4.64%
P-4	53+16.41	26.8	LT	155.36	52+24.43	26.7	LT	154.73	92.0' 92.6	18"	0.69%
P-5	61+71.60	47.3	RT	137.08	61+78.01	55.1	LT	133.13	102.6' 104.5	36"	3.85%
P-5a	60+83.63	27.4	LT	153.00	61+23.85	28.2	LT	150.00	40.2' 45.7	18"	NEEDED ADDITION PIPE
P-6	63+47.63	46.6	RT	130.61	63+42.21	54.4	LT	125.13	101.1' 100	24"	5.42%
P-7a	64+92.07	32.8	RT	132.78	65+60.74	32.9	RT	129.94	68.7' 147	18" 24"	4.14%
P-8a	65+88.13	32.4	RT	128.59	66+49.28	29.7	RT	126.48	61.2' 60	18" 24"	3.44%
P-9	70+62.97	69.1	RT	90.00	70+46.79	66.7	LT	85.00	136.7' 120.11	72"	SLIPLINE EXISTING PIPE
P-10	76+37.34	24.3	RT	113.50	75+83.70	24.2	RT	113.50	53.1' 53.5	18"	0.38%
P-11	76+79.52	24.7	LT	114.03	77+49.71	24.7	LT	112.28	70.9' 70.4	18"	2.47%
P-12	78+18.38	24.7	LT	111.04	79+02.10	24.5	LT	108.98	84.5' 83.5	18"	2.44%
P-13	78+25.22	24.2	RT	111.64	78+88.41	24.7	RT	108.44	62.6' 62.2	18"	5.12%
P-14	79+12.06	24.7	LT	108.66	79+71.63	24.7	LT	106.46	60.0' 60.3	18"	3.67%
P-15	79+98.62	24.5	LT	105.53	80+82.21	24.6	LT	103.30	83.6' 85.6	18"	2.67%
P-16	80+42.82	24.7	RT	105.17	80+81.22	24.8	RT	101.52	38.4' 33.0	18"	SEE PROFILE, SHEET E6
P-17	80+67.07	47.5	RT	102.10	81+12.48	24.6	LT	98.70	85.2' 86.2	30"	SEE PROFILE, SHEET E6
P-17a	81+12.48	24.6	LT	98.70	81+27.23	48.0	LT	97.50	27.6' 27	30"	SEE PROFILE, SHEET E6
P-18	84+41.62	27.0	RT	86.44	85+12.80	27.3	RT	82.34	70.1' 70.3	18"	5.85%
P-18a	84+67.96	94.2	LT	68.78	85+21.26	93.5	LT	65	57.69' 49	18"	6.54%
P-18b	84+99.81	77.2	RT	63.21	85+18.14	28.7	RT	81.9	51.50' 50	18"	2.54%
P-18c	85+64.19	71.1	RT	88.16	85+80.35	30.5	RT	79.56	43.37'	18"	19.81%
P-18d	86+29.57	69.3	RT	87.18	86+29.68	28.7	RT	77.17	42.55' 34.5	18"	23.53%
P-19	90+51.67	33.7	RT	42.60	90+44.40	38.2	LT	39.79	72.3' 79.75	36"	ADDED 7' SLIPLINE EXISTING PIPE
P-20	91+99.11	24.5	RT	51.46	91+61.55	23.9	RT	51.02	38.1' 39.8	18"	1.14%
P-24	95+83.22	31.7	RT	49.96	95+81.0	34.8	LT	45.00	66.5' 66.05	36"	7.45%
P-25	97+33.92	25.4	RT	52.62	97+46.72	70.2	LT	44.50	96.4' 96.7	36"	8.42%
P-26	99+57.15	24.4	RT	50.03	100+09.19	24.4	RT	49.52	52.0' 53.2	18"	0.97%
P-27	104+14.79	34.6	RT	24.68	104+15.19	30.0	LT	22.77	64.7' 72.6	60"	SLIPLINE EXISTING PIPE
P-28	105+09.97	24.7	RT	31.11	105+54.44	24.9	RT	30.29	43.2' 45.6	18"	1.89%
P-28a	106+58.19	28.6	RT	27.06	107+01.07	35.1	RT	25.02	41.8' 46	18"	4.90%
P-29	109+48.19	42.0	RT	19.13	109+50.65	47.9	LT	15.28	89.9' 91	36"	4.28%
P-29a	112+15.32	25.3	RT	16.34	112+15.12	42.3	LT	15.70	17.0' 17.7	24"	3.77%
P-30	115+46.55	36.7	RT	21.45	114+67.36	34.9	RT	21.23	79.2' 79.1	18"	0.28%
P-31	117+51.03	36.5	RT	23.55	117+00.53	36.2	RT	23.09	50.5' 50.7	18"	0.92%
P-31a	117+04.87	82.5	RT	27.26	116+98.12	56.6	RT	25.63	26.8' 27.6	18"	ADDED 6', 33.6
P-32	118+35.68	38.9	RT	22.06	118+31.06	37.3	LT	20.49	76.3' 78.9	24"	2.06%
P-33	120+06.45	38.3	RT	29.07	119+23.96	40.2	RT	25.96	79.6' 80	18"	3.91%

*10.8', TOTAL LENGTH IS 56.5', PAID UNDER 641(5)

202(1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS

FROM STA	TO STA	LENGTH (FT)	REMARKS
STA. 41+10	STA. 52+00	1090	REMOVE EXISTING CHAIN LINK FENCE
STA. 56+45	STA. 56+75	30	REMOVE EXISTING CHAIN LINK FENCE

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE DJK DATE 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION
KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973

SUMMARY TABLES

DESIGNED BY: N. GEARY	PROJECT DESIGNATION: 68973	YEAR: 2013	SHEET NO.: D1	TOTAL SHEETS: 100
DRAWN BY: R. GRANTHAM	DATE: Tuesday, February 05, 2013 8:29:36 AM	GEARY, NATE (DOT)		
PATH: Q:\KTN\68973\PLANS\SET1\68973_D1-2_SUM.DWG	REVISIONS			
TAB: D1	NO.	DATE	DESCRIPTION	

(603) CULVERT INSTALLATION SUMMARY

PIPE	INLET-STATION	INLET-OFFSET	INLET-INVERT	OUTLET-STATION	OUTLET-OFFSET	OUTLET-INVERT	LENGTH (FT)	SIZE	REMARKS	APPROX. GRADE
P-3a1	42+36	RT		42+25	LT		76'			2.5%
P-3c1	50+10	LT		EXISTING S-3			3.5'			
P-7							69.5'	18"	REMOVED: REPLACED	
P-8							59.3'	18"	REMOVED: REPLACED	
P-30a	116+14	36'	RT	116+34	36'	RT	16'			

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE DJR Date 10/23/17

Sheet Number
D1.1

604 DRAINAGE STRUCTURE SUMMARY					
STRUCT. NO.	STATION	OFFSET	TOP OF CASTING ELEV.	STRUCT. TYPE	REMARKS
S-1	81+26.83	54.27'L	103.0	TYPE II	INTERCEPT EXISTING OUTLET PIPE
S-2	81+12.10	29.62'L	102.1	TYPE II	FIELD INLET IN BOTTOM OF DITCH
STATION AND OFFSET TAKEN TO CENTER OF STRUCTURE					
ALL TYPE A INLET BOXES AND TYPE I STORM DRAIN MANHOLES SHALL HAVE 18" MIN. SUMP					
S-3	50+10	48'LT		MH, TYPE I	

606 (1) W-BEAM GUARDRAIL			
FROM STA	TO STA	LENGTH	REMARKS
30+53 LT	31+08 LT	52	
30+53 RT	31+08 RT	52	
61+87 LT	65+40 LT	375	
95+09 LT	96+14 LT	104	
103+35 LT	105+24 LT	197	
109+54 LT	118+05 LT	854	

606 (6) REMOVING AND DISPOSING OF GUARDRAIL			
FROM STA	TO STA	LENGTH	REMARKS
30+53 LT	30+89 LT	56	EXISTING GUARDRAIL/BRIDGE RAIL CONNECTION TO REMAIN
30+53 RT	30+89 RT	56	EXISTING GUARDRAIL/BRIDGE RAIL CONNECTION TO REMAIN
61+37 LT	65+30 LT	401	
109+06 LT	118+54 LT	954	

606 (13) PARALLEL GUARDRAIL TERMINAL			
STATION	OFFSET	REMARKS	
31+58	RT		
31+58	LT		
61+37	LT		
94+71	LT	37.5' LONG	
96+52	LT	37.5' LONG	
109+05	LT		
118+54	LT		

606 (15) DOWNSTREAM END ANCHOR		
STATION	OFFSET	REMARKS
65+44	LT	
103+35	LT	
105+25	LT	

607 (3) CHAINLINK FENCE					
FROM STA	OFFSET	TO STA	OFFSET	LENGTH	REMARKS
56+75	71.7L	56+85	86.0R	17	PROVIDE FENCE TO CONNECT NEW GATE TO EXISTING FENCE
106+94	57.5'R	109+04	85.0R	194	
88+20	RT.	88+92	RT.	70'	

607 (5) DRIVE GATE			
STATION	OFFSET	SIZE	REMARKS
56+62	72.5'L	26'	CONNECT EXISTING FENCE TO NEW GATE. FENCE REPAIRS PAID UNDER 607(4).

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE DK DATE 10/23/17

202(8) REMOVAL OF INLET		
STATION	OFFSET	REMARKS
42+44	45'R	EXISTING FIELD INLET
42+63	24'L	CAP INLET AND FILL WITH FLOWABLE FILL
81+27	54.27'L	EXISTING FIELD INLET TO BE REPLACED AND EXISTING 36" OUTLET PIPE TO REMAIN
80+81	24' RT	CONNECTS EXISTING P-16 TO P-17

626(3) ADJUST SANITARY SEWER		
STATION	OFFSET	REMARKS
105+00	32'L	ADJUST AS REQUIRED TO ACCOMMODATE NEW MSE WALL

642(4) SET PRIMARY MONUMENT		
STATION	OFFSET	REMARKS
38+70	28 LT	
44+70	16 RT	
49+00	16 RT	49+30
54+00	16 RT	
60+50	20 LT	
73+50	16 LT	
81+00	16 LT	
88+25	16 LT	
94+00	16 RT	
100+50	16 LT	
107+70	16 LT	
115+00	16 LT	

NOTE:
 THE LOCATIONS OF THE PROPOSED CONTROL MONUMENTS ARE APPROXIMATE. SET PRIMARY MONUMENTS AND CASES IN THE PAVED SHOULDER IN LINE-OF-SIGHT WITH EACH OTHER AND APPROXIMATELY 2' FROM THE EDGE OF PAVEMENT. THE INTENT IS TO PROVIDE A MONUMENTED TRAVERSE LINE FOR THE PROJECT CORRIDOR.

642(6) REPLACE EXISTING WITH PRIMARY MONUMENT		
642(9) REFERENCE EXISTING MONUMENT		
STATION	OFFSET	REMARKS
65+56.25	L 43.22	EXISTING MONUMENT #429
108+37.37	R 82.71	EXISTING MONUMENT #447
119+69.04	R 68.85	EXISTING MONUMENT #450
108+68.23	R 41.69	EXISTING MONUMENT #965

642(10) MONUMENT CASE		
STATION	OFFSET	REMARKS
38+70	28 LT	
44+70	16 RT	
49+00	16 RT	
54+00	16 RT	
60+50	20 LT	
65+56.25	43.22 LT	EXISTING MONUMENT #429
73+50	16 LT	
81+00	16 LT	
88+25	16 LT	
94+00	16 RT	
100+50	16 LT	
107+70	16 LT	
115+00	16 LT	

639 (3) DRIVEWAY					
STATION	OFFSET	RADIUS		DRIVEWAY WIDTH	REMARKS
		R1*	R2*		
31+91	RT	10'	10'	20'	SEE G-SHEETS FOR DETAILS
31+96	LT	10'	10'	36'	
32+59	RT	10'	10'	25'	
44+02.0	RT	30'	30'	30'	POST OFFICE, SEE G-SHEETS FOR DETAILS
49+68.2	RT	40'	40'	30'	CMI ACCESS, SEE G-SHEETS FOR DETAILS
52+51.50	LT	10'	10'	37'	
53+13	RT	10'	10'	44'	
56+51.0	LT	40'	40'	24'	SEE G-SHEETS FOR DETAILS
61+02.7	LT	10'	10'	20'	
65+21	RT	10'	10'	32'	PROVIDE COMMERCIAL LANDING
65+57.4	LT	40'	40'	24'	AMHS, SEE G-SHEETS FOR DETAILS
66+05	RT	10'	5'	12'	SEE G-SHEETS FOR DETAILS
73+20.50	LT	10'	10'	34'	SEE G-SHEETS FOR DETAILS
77+07	LT	10'	10'	38'	
78+50.50	RT	25'	25'	18'	BUCKA LANE, SEE G-SHEETS FOR DETAILS
78+57.50	LT	10'	10'	42'	
79+38	LT	10'	10'	22'	
80+34.50	LT	10'	10'	38'	
80+73	RT	10'	10'	42'	
82+05	LT	10'	10'	38'	
83+17	LT	20'	18'	53'	BRUSICH MARINA, SEE G-SHEETS FOR DETAILS
84+70	RT	15'	15'	22'	SEE G-SHEETS FOR DETAILS
85+94.50	LT	20'	20'	12'	SEE G-SHEETS FOR DETAILS
87+70	LT	10'	10'	53'	SEE G-SHEETS FOR DETAILS
89+74	LT	15'	30'	12'	SEE G-SHEETS FOR DETAILS
91+18	LT	30'	30'	14'	SEE G-SHEETS FOR DETAILS
91+78	RT	10'	10'	13'	
92+05	LT	10'	5'	46'	
93+23	LT	5'	10'	46'	
94+44	LT	2'	20'	14'	SEE G-SHEETS FOR DETAILS. REDUCE TO 12' WIDE AFTER PAVED APRON.
95+02.50	RT	10'	10'	24'	
96+99	LT	10'	10'	70'	
97+03	RT	20'	20'	42'	
97+68.50	LT	10'	20'	12'	SEE G-SHEETS FOR DETAILS
98+96	LT	10'	10'	37'	
99+81	RT	10'	10'	18'	
100+20	LT	20'	20'	15'	FAIRHAVEN RD., SEE G-SHEETS FOR DETAILS
102+28	LT	20'	20'	12'	SNUG HARBOR RD., SEE G-SHEETS FOR DETAILS
103+21	LT	10'	10'	20'	
105+31	RT	10'	10'	20'	
105+71	LT	10'	10'	20'	
106+73	LT	10'	10'	20'	SEE G-SHEETS FOR DETAILS
106+77	RT	10'	10'	14'	SEE G-SHEETS FOR DETAILS
115+22.0	RT	20'	10'	16'	SEE G-SHEETS FOR DETAILS
117+24.1	RT	20'	20'	14'	SEE G-SHEETS FOR DETAILS
117+77.8	RT	20'	20'	20'	SEE G-SHEETS FOR DETAILS
119+14.2	RT	10'	20'	16'	SEE G-SHEETS FOR DETAILS

* SEE DRIVEWAY DETAIL, SHEET E1.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

4911
 Keith D. Karpstein
 CE-12904
 PROFESSIONAL ENGINEER

1/31/17

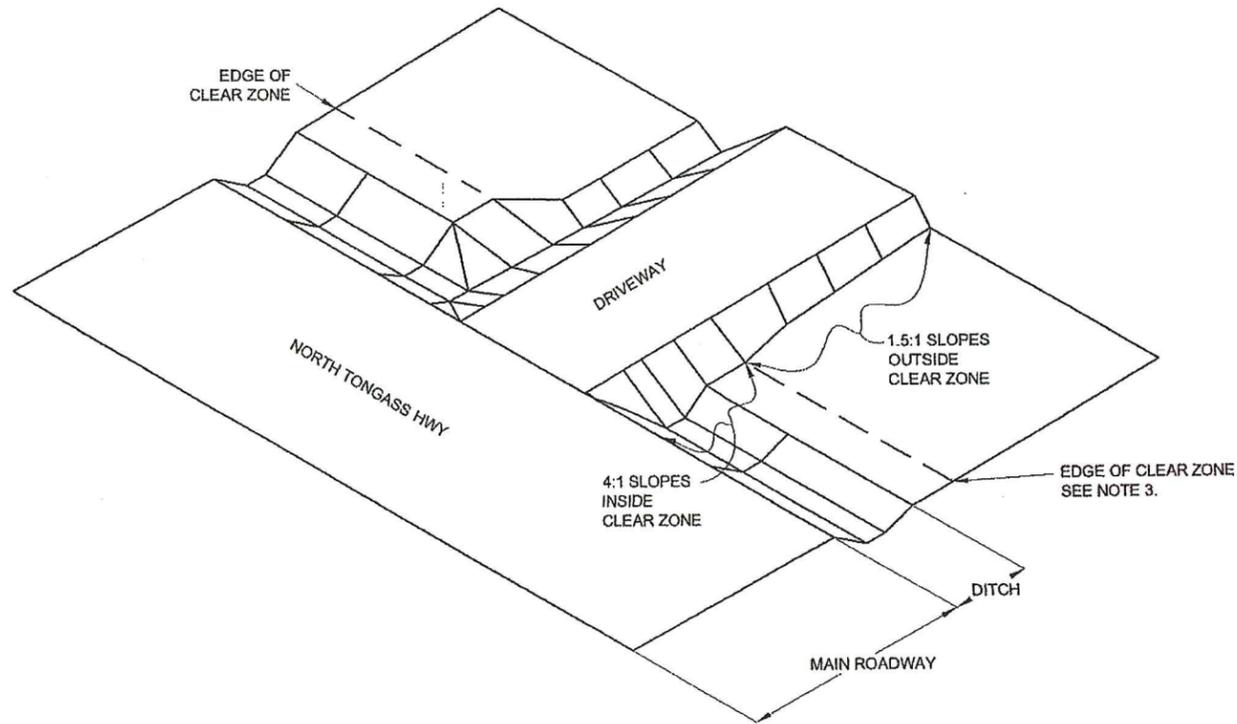
DESIGNED BY: N. GEARY
 DRAWN BY: R. GRANTHAM

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KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

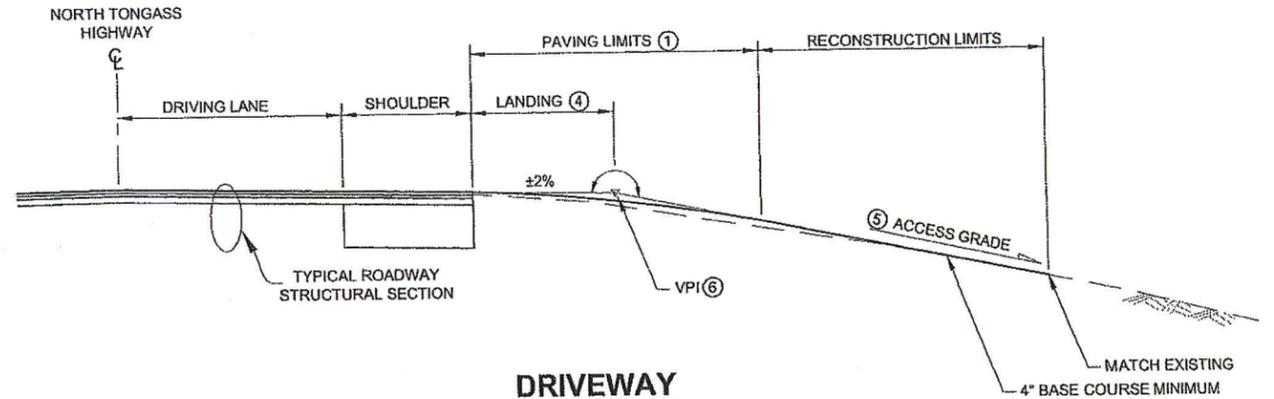
SUMMARY TABLES

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
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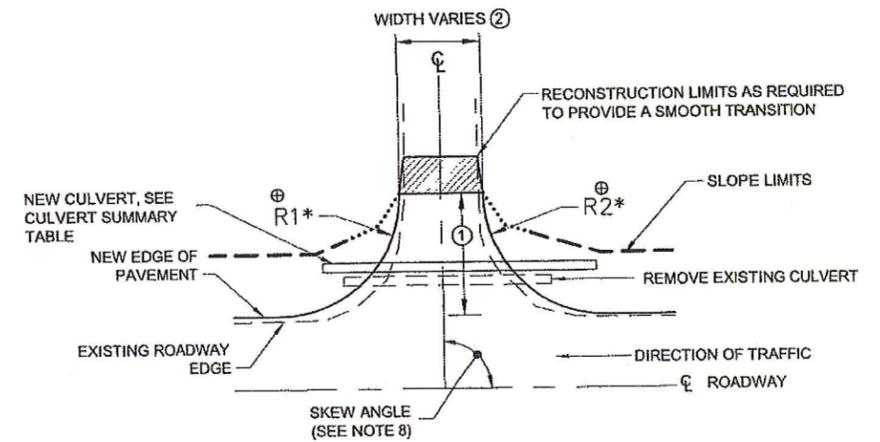


DRIVEWAY SLOPES ③

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE DR DATE 10/23/17

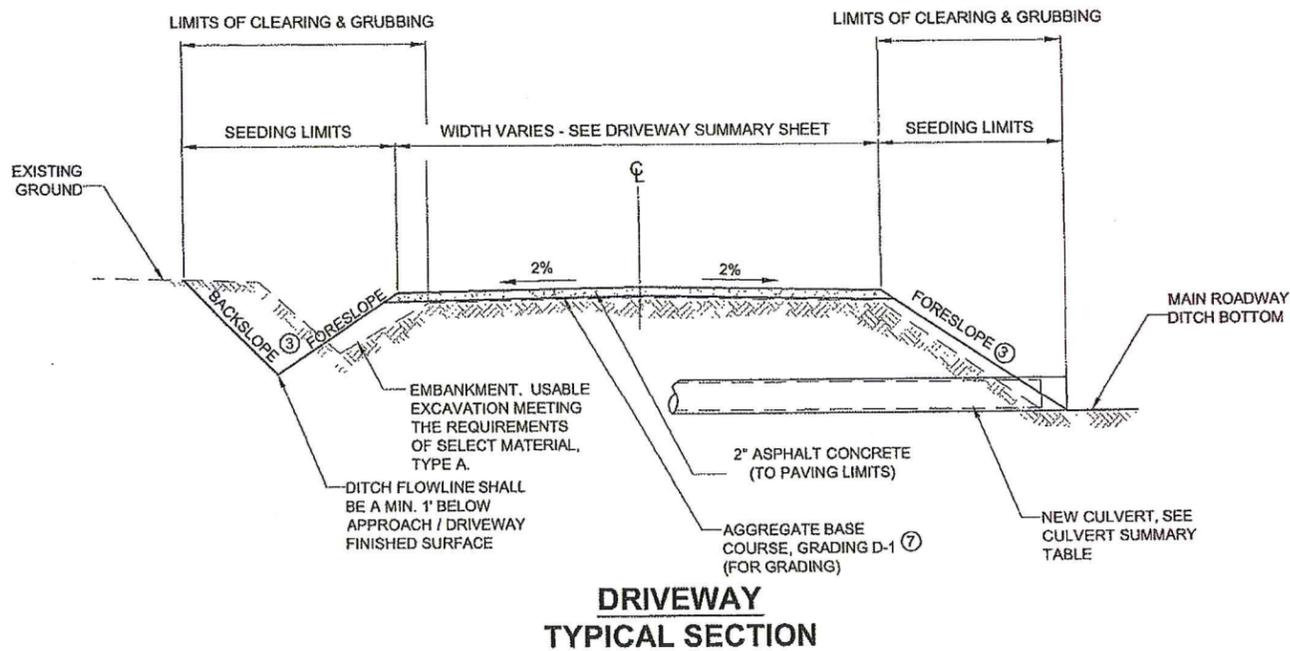


DRIVEWAY TYPICAL PROFILE



* RADIUS VARIES, SEE DRIVEWAY SUMMARY TABLE SHEET D2

DRIVEWAY APRON PLAN VIEW



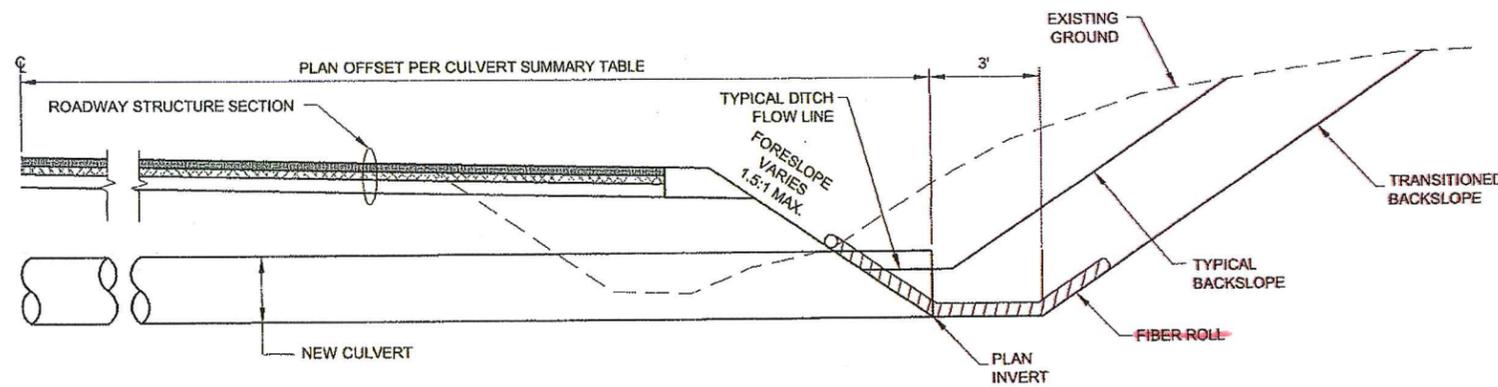
DRIVEWAY TYPICAL SECTION

NOTES

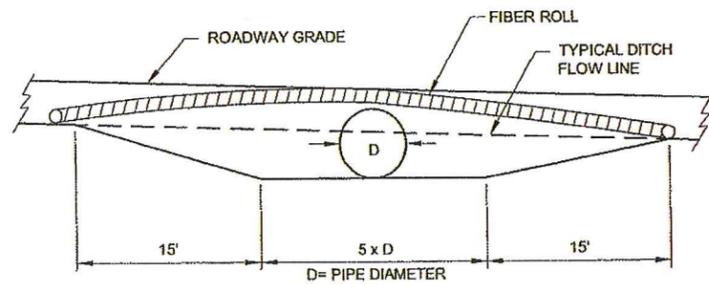
- ① LENGTH OF PAVING VARIES. SEE TYPICAL DRIVEWAY PROFILE DETAIL, SHEET B2 AND THE G SHEETS FOR PAVING LIMITS.
- ② WIDTH OF DRIVEWAY VARIES. SEE SHEET D2 FOR DRIVEWAY SUMMARY TABLES.
- ③ DRIVEWAY FORESLOPES OR DITCH BACKSLOPES SHALL BE 4:1 OR FLATTER INSIDE THE CLEAR ZONE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CLEARZONE IS CONSIDERED TO EXTEND 18' FROM THE EDGE OF THE SHOULDER STRIPE. BEYOND THE CLEAR ZONE THE SLOPE SHALL BE 1.5:1.
- ④ UNLESS SPECIFIED, THE LANDING SHALL BE 10' FOR RESIDENTIAL DRIVEWAYS AND 30' FOR COMMERCIAL DRIVEWAYS.
- ⑤ UNLESS SPECIFIED, THE MAXIMUM GRADE SHALL NOT EXCEED 15% FOR RESIDENTIAL OR 8% FOR COMMERCIAL DRIVEWAYS UNLESS NOTED OTHERWISE IN THE G SHEETS.
- ⑥ ALL VPI SHALL BE SMOOTHED WITH A VERTICAL CURVE. VERTICAL CURVES SHALL NOT HAVE HUMPS OR DEPRESSIONS THAT EXCEED 3 1/2" IN A 10' CHORD.
- ⑦ SUPPLEMENT EXISTING DRIVEWAY BASE COURSE, AS REQUIRED, TO PROVIDE 4" OF AGGREGATE BASE COURSE, GRADING D-1 UNDER THE ASPHALT CONCRETE.
- ⑧ THE SKEW ANGLE IS DEFINED AS A RIGHT ANGLE OR THE ACUTE ANGLE OF THE INTERSECTING CENTERLINES.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: N. GEARY DRAWN BY: R. GRANTHAM		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973	
PATH: Q:\KTN\68973\PLANSET\68973_E1-6_DET.DWG TAB: E1 Friday, January 11, 2013 11:21:17 AM GRANTHAM, RICK L (DOT)		APPROACH/ DRIVEWAY DETAILS	
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION
			68973
			YEAR
			2013
			SHEET NO.
			E1
			TOTAL SHEETS
			100



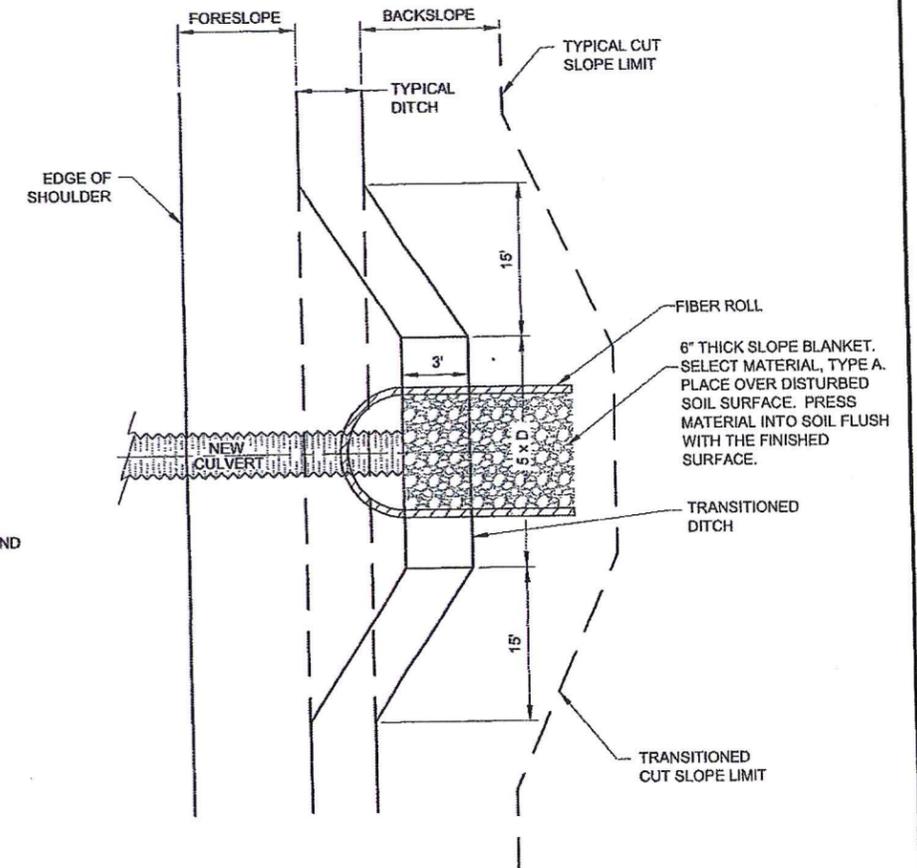
SECTION



ELEVATION

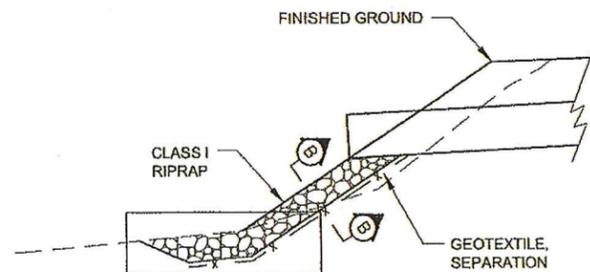
DITCH TRANSITION NOTES:

1. AT THE DIRECTION OF THE ENGINEER, TEMPORARY CHECK DAMS MAY BE REQUIRED AT LOCATIONS OTHER THAN THOSE SPECIFIED.
2. LINE DITCHES WITH CLASS I RIPRAP AS DIRECTED TO CONTROL EROSION AND STABILIZE CHANNEL.
3. TRANSITION NEW DITCH SMOOTHLY TO MATCH EXISTING CONDITIONS AS DIRECTED BY THE ENGINEER.

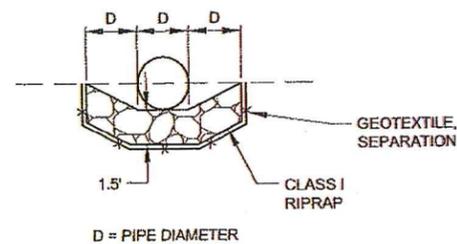


PLAN VIEW

DITCH TRANSITION ROCK OR SOIL CUT

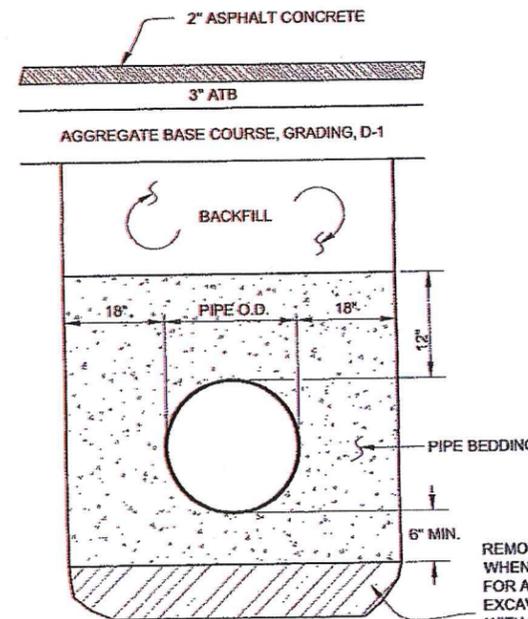


ROADWAY SECTION



SECTION "B-B"

RIPRAP SLOPE STABILIZATION/SPILLWAY DETAILS



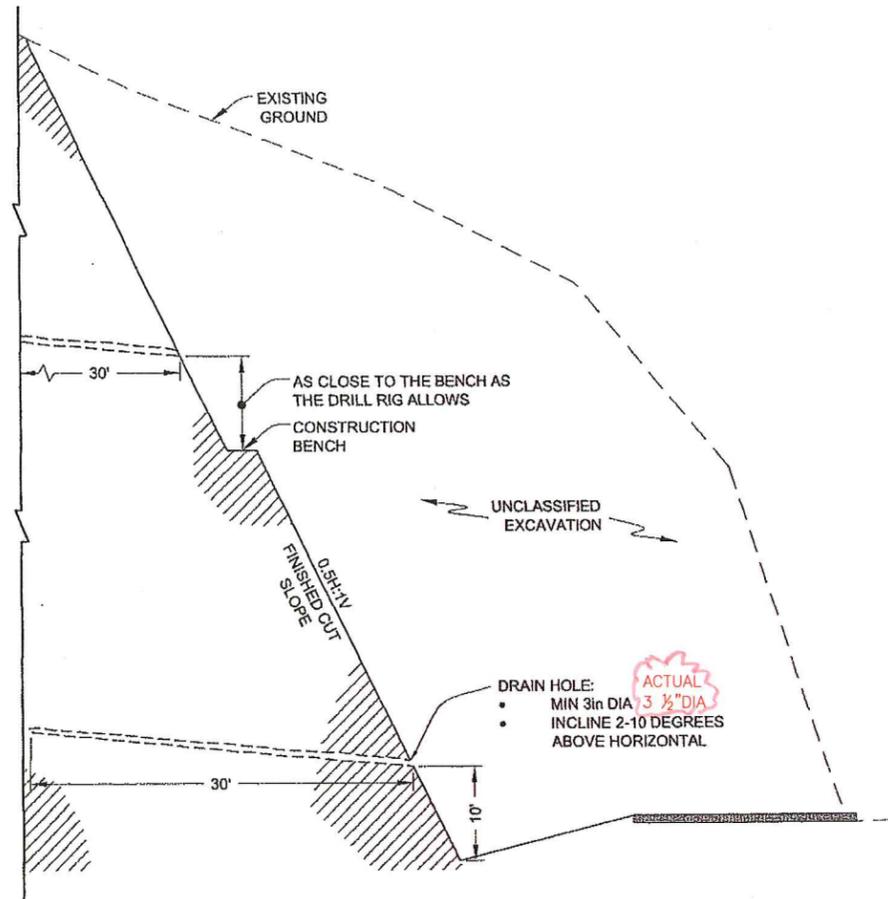
CULVERT BEDDING/BACKFILL DETAIL
N.T.S.

DITCH TRANSITION DETAIL

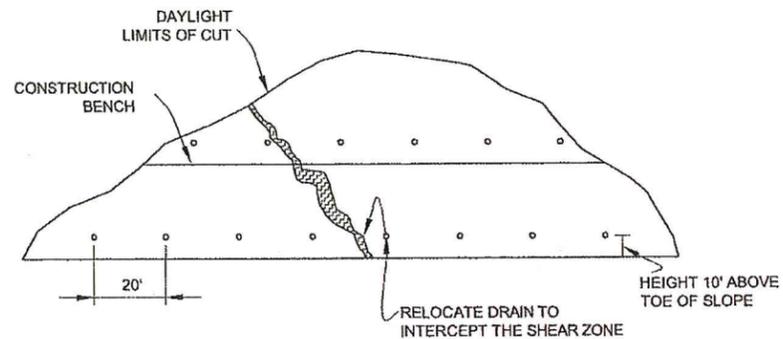
RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE. DR DATE 10/23/17

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CHECKED BY: K. KARPSTEIN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION												
DESIGNED BY: N. GEARY DRAWN BY: R. GRANTHAM		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973 MISCELLANEOUS DETAILS												
PAT#: Q:\KTN\68973\PLANS\SET\68973_E1-6_DET.S.DWG TAB: E2 Friday, January 11, 2013 11:21:21 AM		GRANTHAM, RICK L (DOT)												
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				PROJECT DESIGNATION 68973	YEAR 2013	SHEET NO. E2	TOTAL SHEETS 100
REVISIONS														
NO.	DATE	DESCRIPTION												

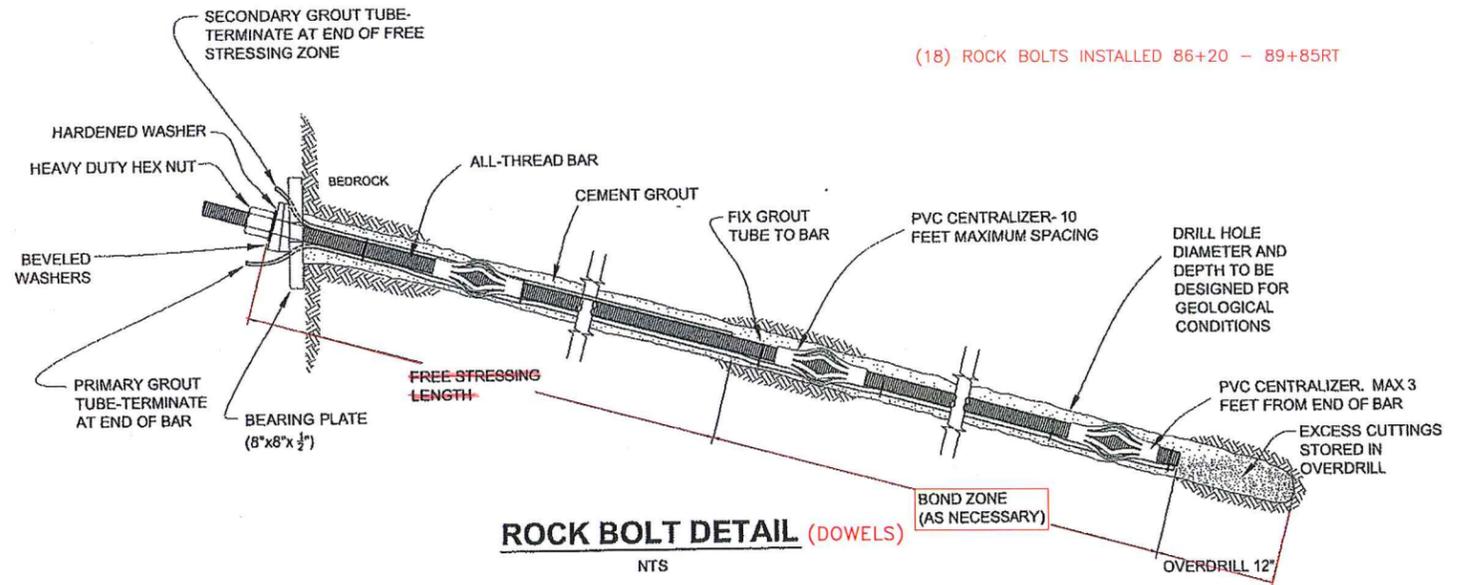


DRAIN HOLE DETAIL
NTS



DRAIN HOLE LAYOUT
NTS

- DRAIN HOLE LOCATION**
- (4) 109+00 - 108+40 RT
 - (4) 108+10 - 107+50 RT
 - (5) 88+26 - 87+69 RT
 - (4) 88+50 - 89+09 RT
 - (16) 89+59 - 86+70 RT
 - (5) 101+52 - 100+73 RT
 - (2) 77+27 - 76+87 RT
 - (7) 74+54 - 75+94 RT
 - (6) 67+63 - 66+43 RT
 - (53) TOTAL = 1,590.0'



ROCK BOLT DETAIL (DOWELS)
NTS

NOTES:

1. ALL ROCK BOLT LOCATIONS, LENGTHS AND ORIENTATIONS WILL BE PROVIDED BY THE ENGINEER OR APPROVED REPRESENTATIVE

MATERIAL SPECIFICATIONS:

STEEL	GRADE 75
Min ULTIMATE STRENGTH	79 KIPS
BAR TYPE	GALVANIZED, ALL-THREAD
Max DIAMETER	#8 BAR WITH A 1 1/4" MAJOR THREAD DIAMETER
LENGTH	30 FEET, CUT SHORTER LENGTHS AS REQUIRED ON SITE
Min HOLE DIAMETER	3 3/8" WITHOUT COUPLERS / 4 3/8" WITH COUPLERS
BEARING PLATE DIMENSIONS	8"x8"x 1/2"
Max GROUT TUBE DIAMETER	8"

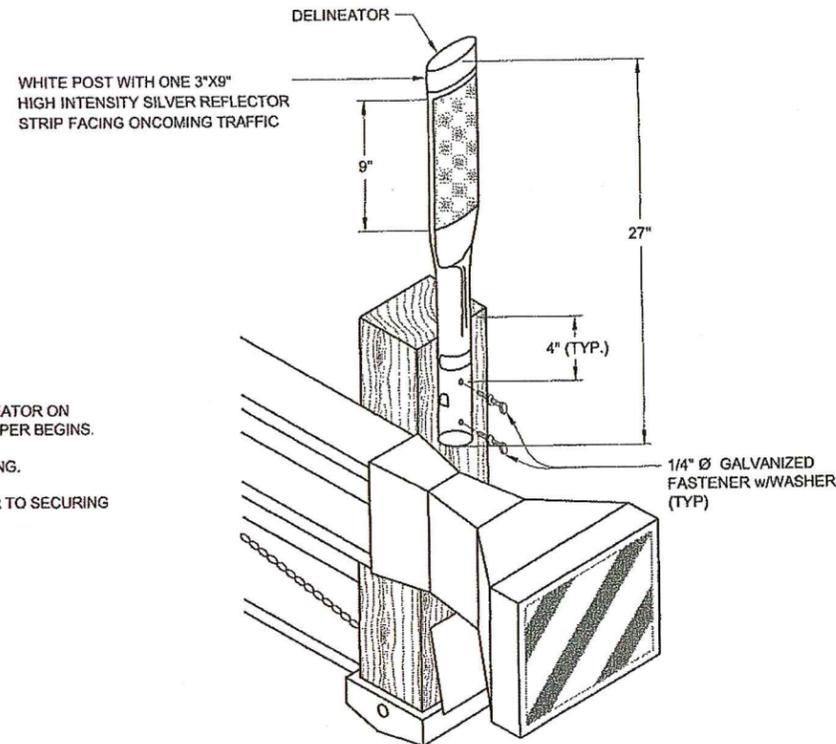
LOAD REQUIREMENTS:

ALIGNMENT LOAD (AL)	5 KIPS
DESIGN LOAD (DL)	47 KIPS
LOCK OFF LOAD	47 KIPS
TEST LOAD (TL)	63 KIPS

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE DK DATE 10/23/17

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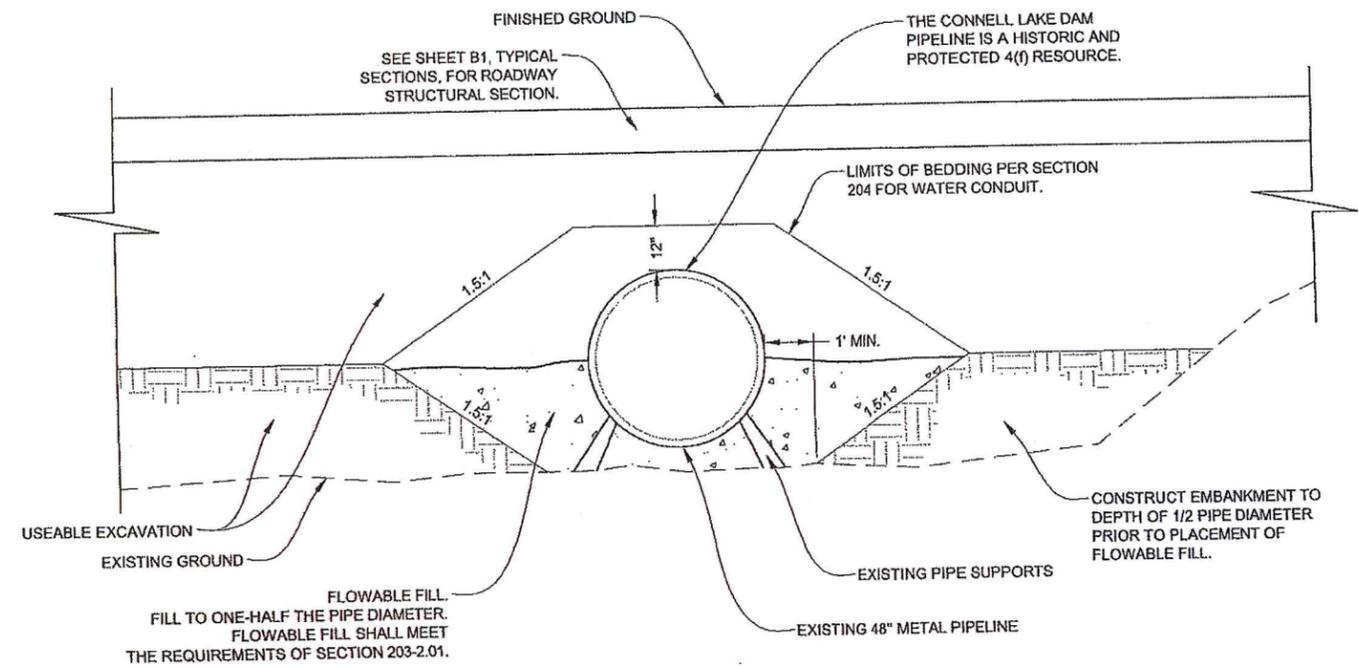
CHECKED BY: K. KARPSTEIN 	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
	KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973 MISCELLANEOUS DETAILS			
DESIGNED BY: N. GEARY DRAWN BY: R. GRANTHAM PATH: Q:\KTN\68973\PLANS\SET\68973_E1-6_DET5.DWG TAB: E3 Friday, January 11, 2013 11:21:25 AM GRANTHAM, RICK L. (DOT)	PROJECT DESIGNATION 68973	YEAR 2013	SHEET NO. E3	TOTAL SHEETS 100



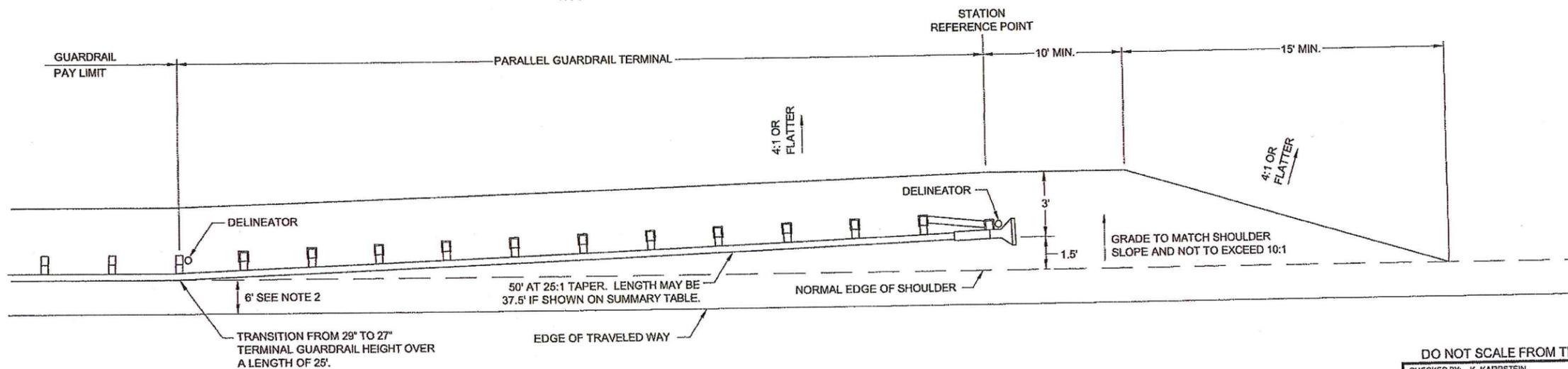
DELINEATOR NOTES:

1. EACH PARALLEL GUARDRAIL END SHALL HAVE A DELINEATOR ON THE END POST OF EACH TERMINAL AND WHERE THE TAPER BEGINS.
2. DELINEATORS SHALL HAVE WHITE REFLECTIVE SHEETING.
3. STEEL POST GUARDRAIL SHALL BE PRE-DRILLED PRIOR TO SECURING DELINEATOR WITH SELF-TAPPING SCREWS.

FLEXIBLE GUARDRAIL DELINEATOR
NTS



METAL PIPE BURIAL DETAIL
NTS



PARALLEL GUARDRAIL TERMINAL INSTALLATION WIDENING DETAILS
NTS

PARALLEL GUARDRAIL TERMINAL NOTES:

1. THE TERMINAL DETAILS SHOWN ARE FOR ILLUSTRATION ONLY. INSTALL TERMINAL SECTIONS ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
2. SEE STD DWG. G-20.10 WIDENING FOR GUARDRAIL END TERMINAL. CONSTRUCT TERMINAL WITH END OFFSET OF 1.5' FROM NORMAL GUARDRAIL FACE.
3. END TERMINALS TO REMAIN AT 27" HEIGHT. TRANSITION FROM 29" TO 27" OVER A LENGTH OF 25'.

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE: *DKR* DATE: *10/23/17*

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

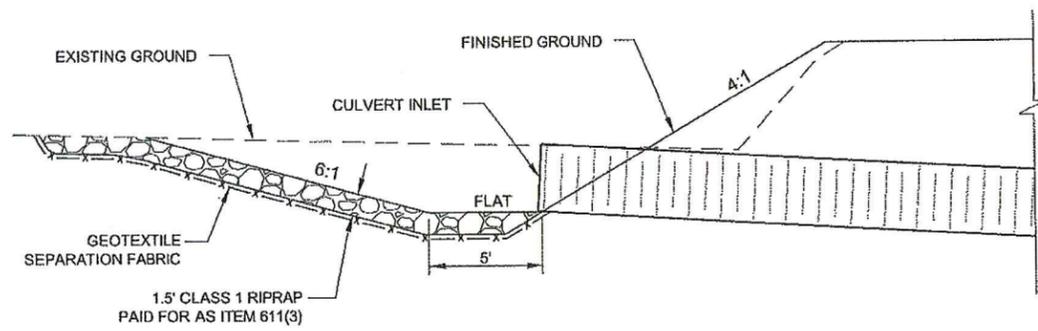
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

MISCELLANEOUS DETAILS

DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM
PATH: Q:\KTN68973\PLANSET\68973_E1-6_DET.DWG
TAB: E4 Monday, February 04, 2013 11:34:37 AM GEARY, NATE (DOT)

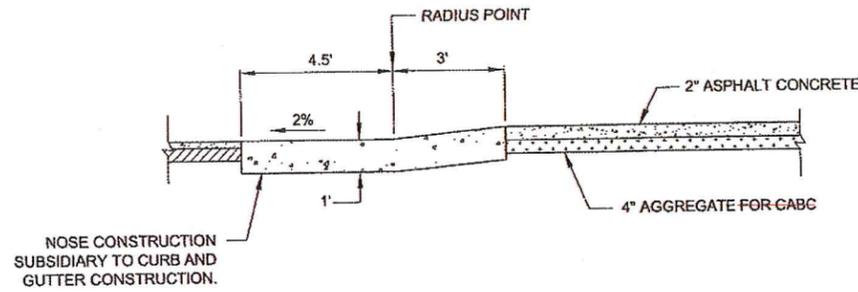
2/4/13

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68973	2013	E4	100



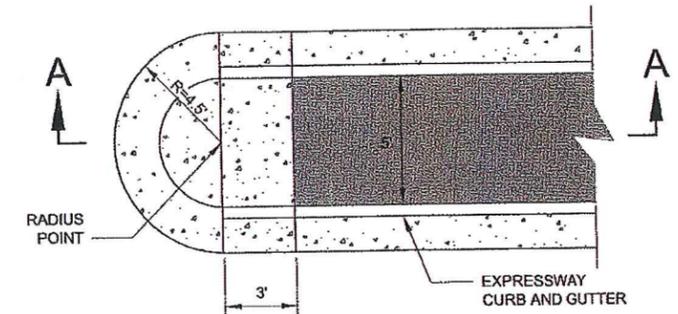
PIPE P-2 AND P-3 INLET DETAIL

NTS



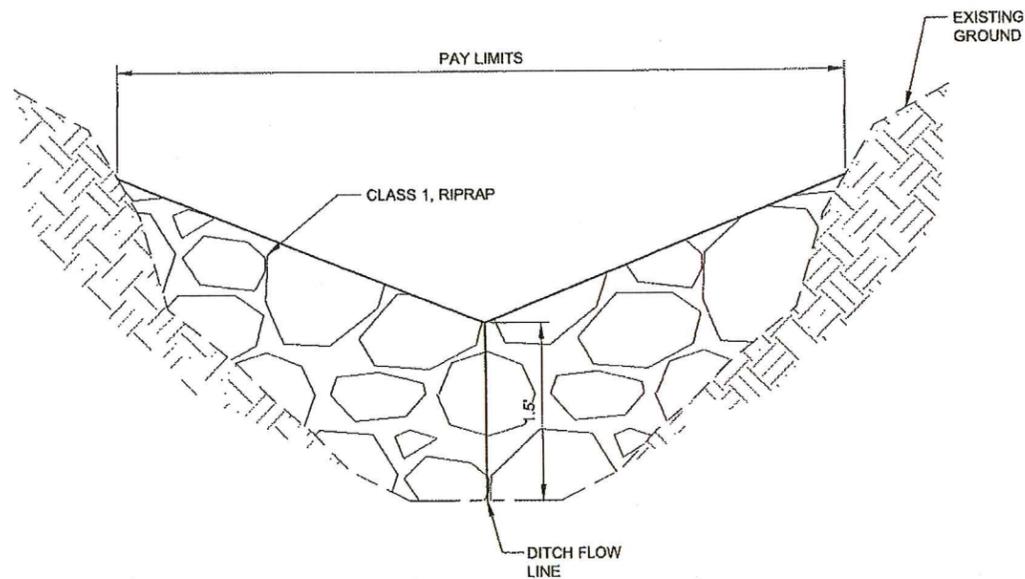
RAMPED ISLAND END SECTION A-A

NTS

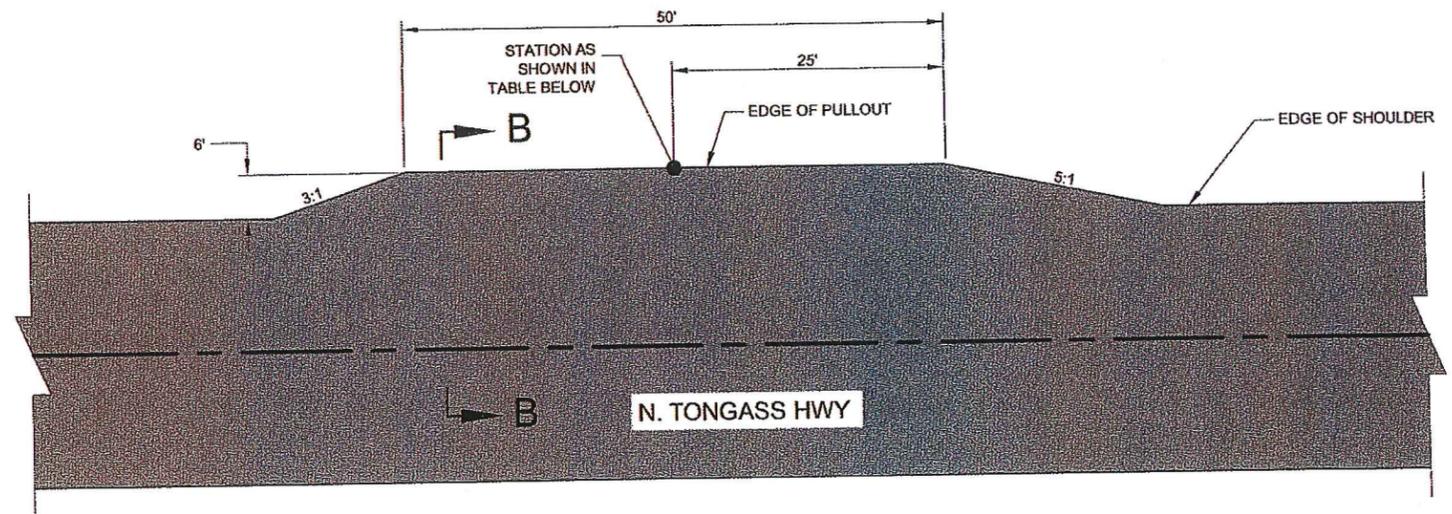


RAMPED ISLAND END PLAN VIEW

NTS

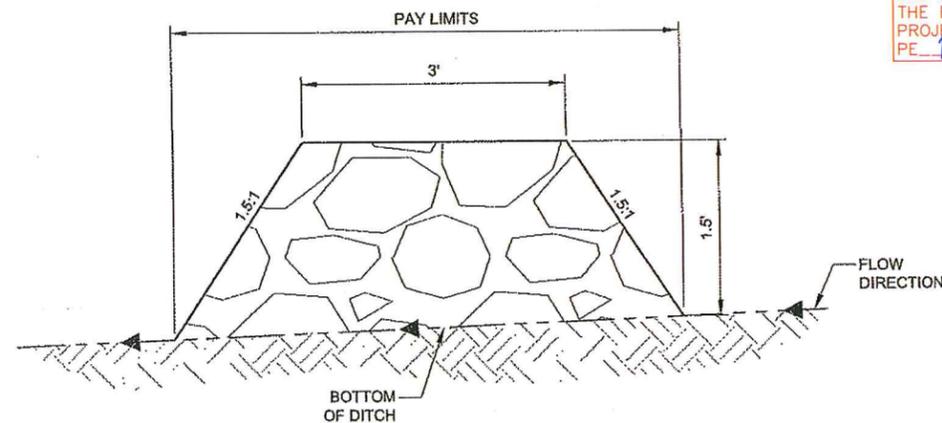


ELEVATION



BUS PULLOUT DIMENSION PLAN

NTS

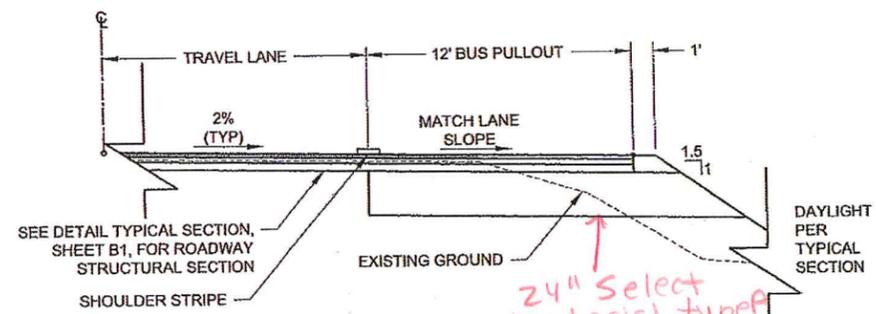


PERMANENT ROCK CHECK DAM

NTS

NOTE: PAID FOR UNDER 611(3).

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE DJK DATE 10/23/17



BUS PULLOUT SECTION B-B

NTS

BUS PULLOUT SUMMARY TABLE	
NO.	STA.
1	45+26 LT
2	45+36 RT
3	64+26 LT
4	64+50 RT
5	107+50 LT
6	107+65 RT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

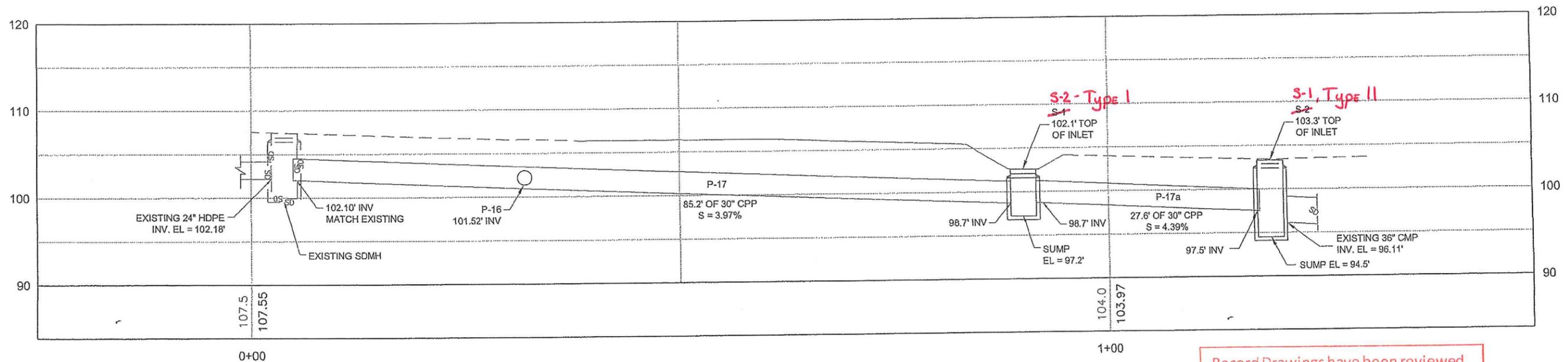
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973
**MISCELLANEOUS
DETAILS**

DATE: 1/31/13

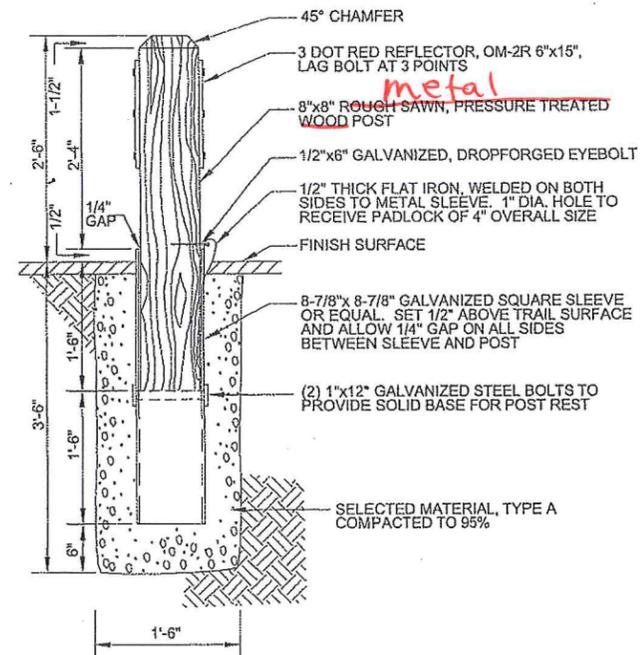
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TAB: E5 Tuesday, January 29, 2013 8:25:47 AM GRANTHAM, RICK L (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	68973	2013	E5	100



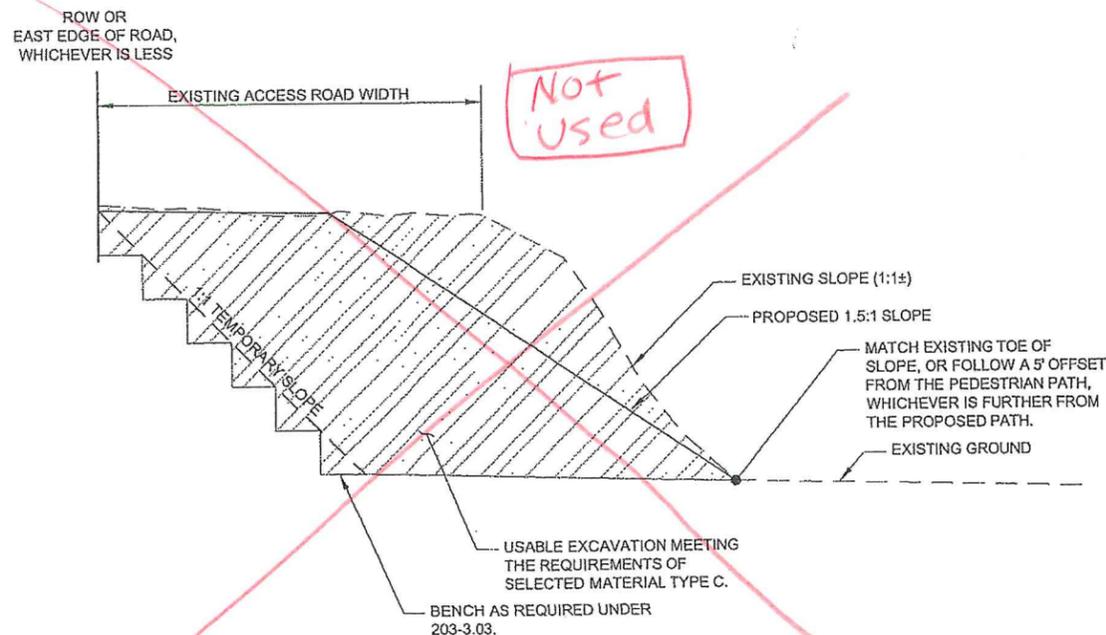
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE DR Date 10/23/17

KTN N. TONGASS DRAINAGE IMPROVEMENTS
 STA. 81+00



- NOTES:
- PADLOCK SHOULD BE LOCATED OUT OF TRAFFIC FLOW.
 - PADLOCK PROVIDED BY AK DOT MAINTENANCE CREW.

REMOVABLE BOLLARD DETAIL
 NTS



SLOPE REPAIR DETAIL
 NTS
 (APPROX. STA. 110+00 RT TO STA. 113+75 RT)

UNCLASSIFIED EXCAVATION	2,200 CY
EMBANKMENT	1,500 CY

MATERIAL TO BE REMOVED

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

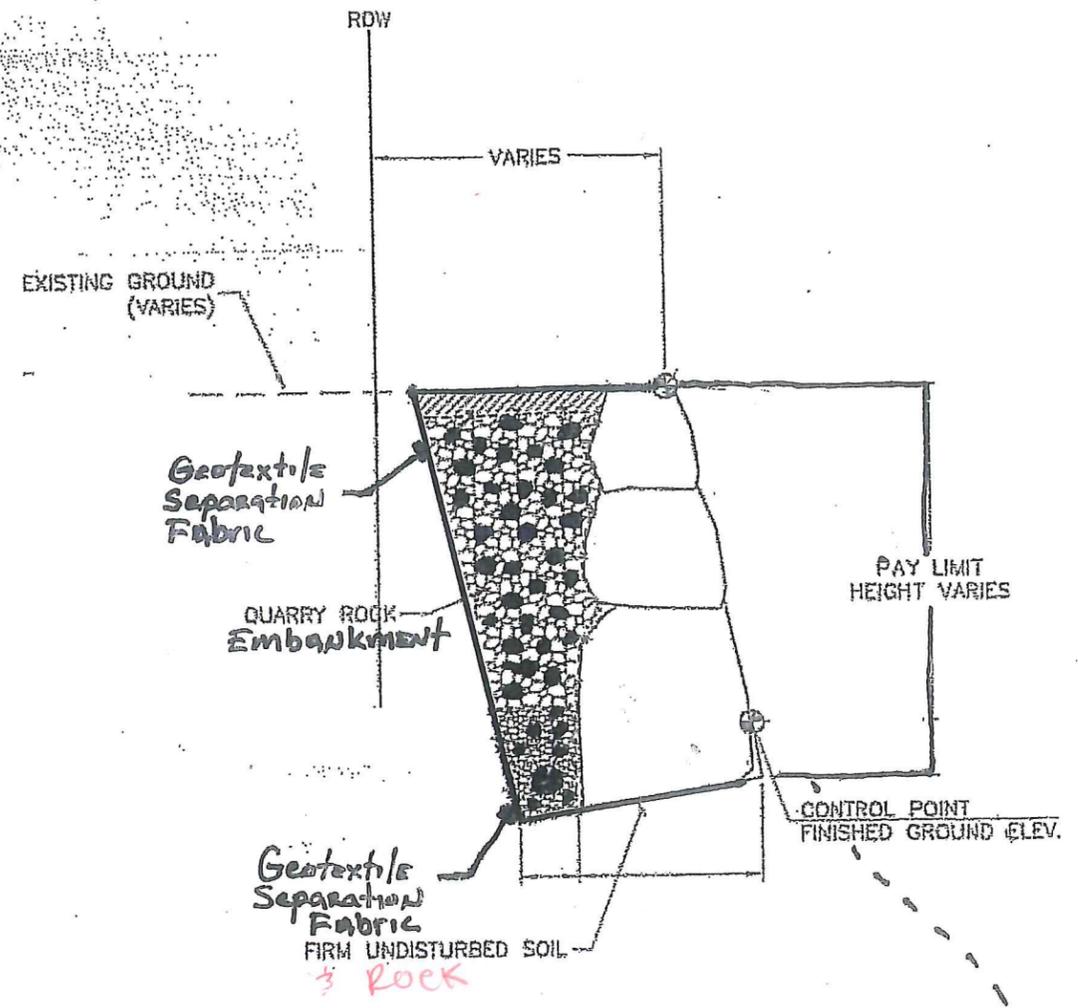
KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

**MISCELLANEOUS
 DETAILS**

DESIGNED BY: N. GEARY
 DRAWN BY: R. GRANTHAM

PATH: Q:\KTN\68973\PLANS\SET\68973_E1-6_DET.DWG
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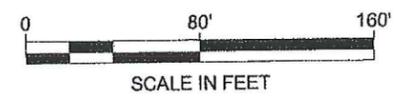
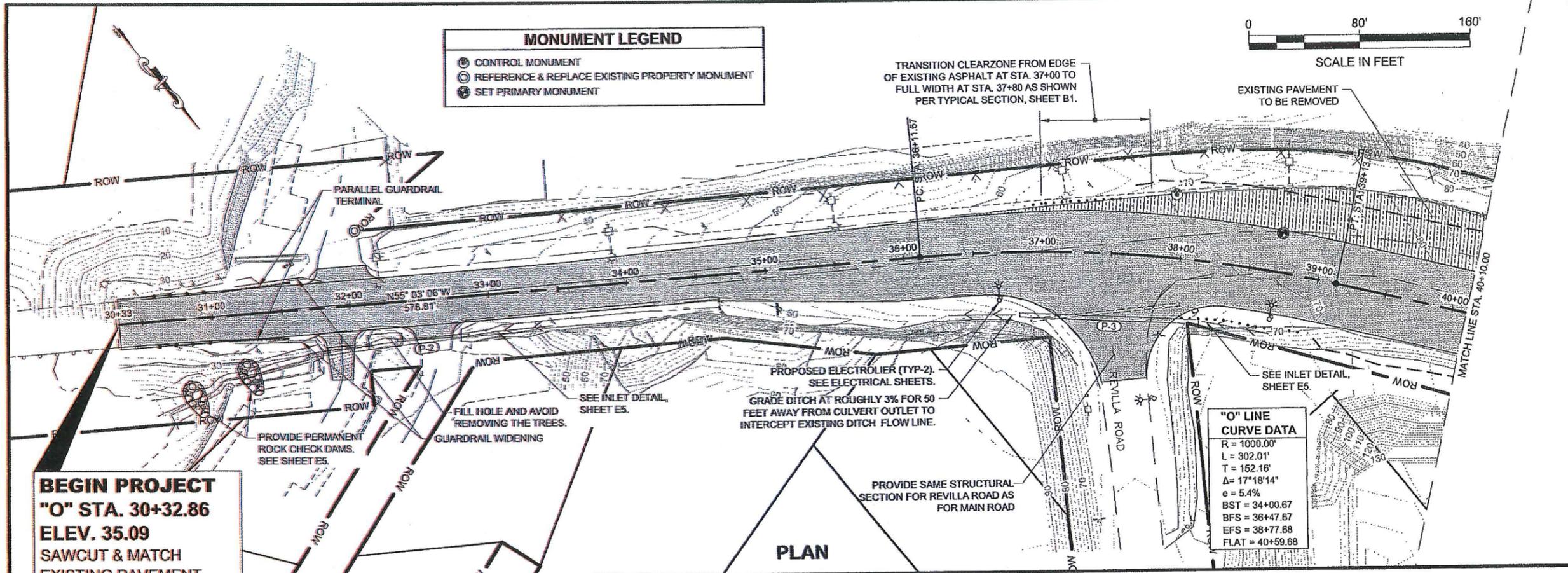
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68973	2013	E6	100



ROCKERY WALL @ CUT SECTION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE DR Date 10/23/17

Sheet Number
 E7



PATH: Q:\KTN\68973\PLANS\68973_F1-10_P&P\REALIGN.DWG

GRANTHAM, RICK L (DOT)

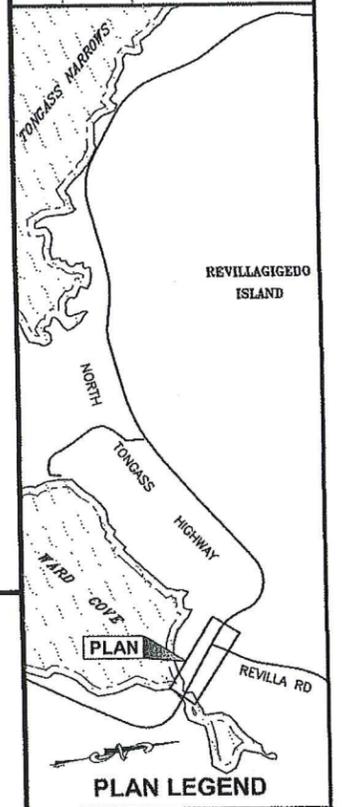
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KARPSTEIN

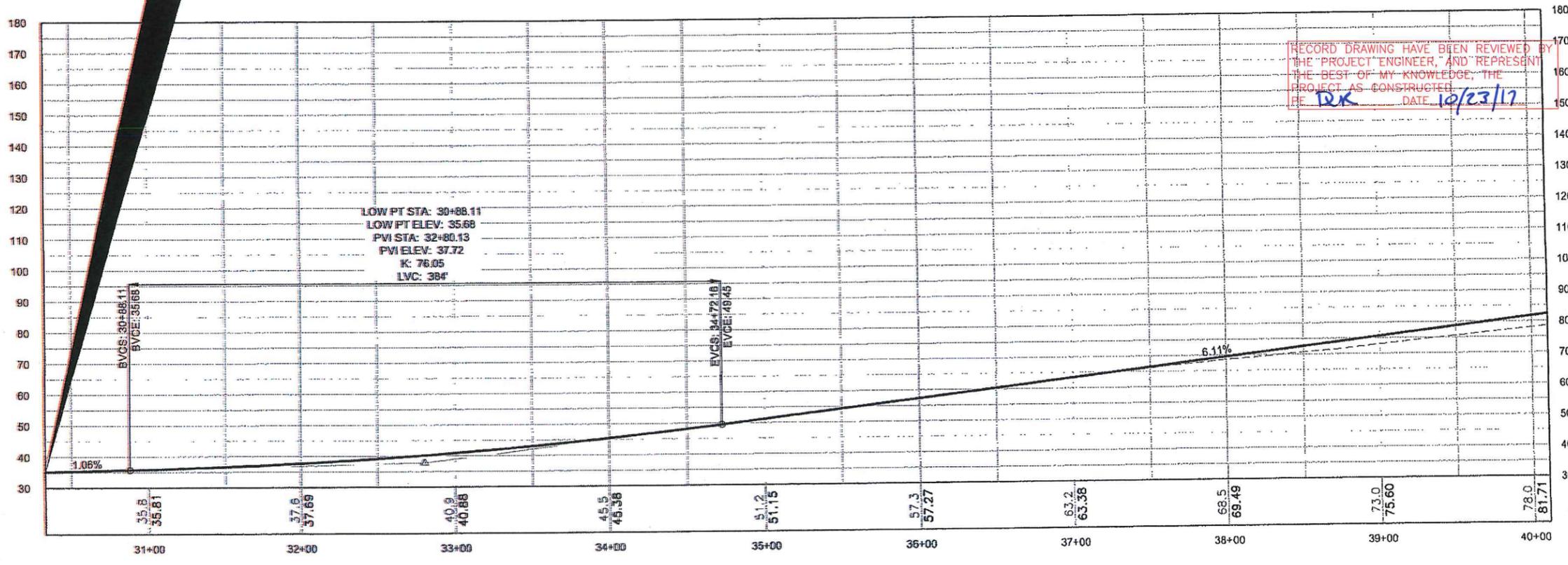
DESIGNED BY: N. GEARY

DRAWN BY: N. GEARY, R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

1/28/13



RECORD DRAWING HAVE BEEN REVIEWED BY THE "PROJECT" ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
RE DK DATE 10/23/17

PLAN & PROFILE

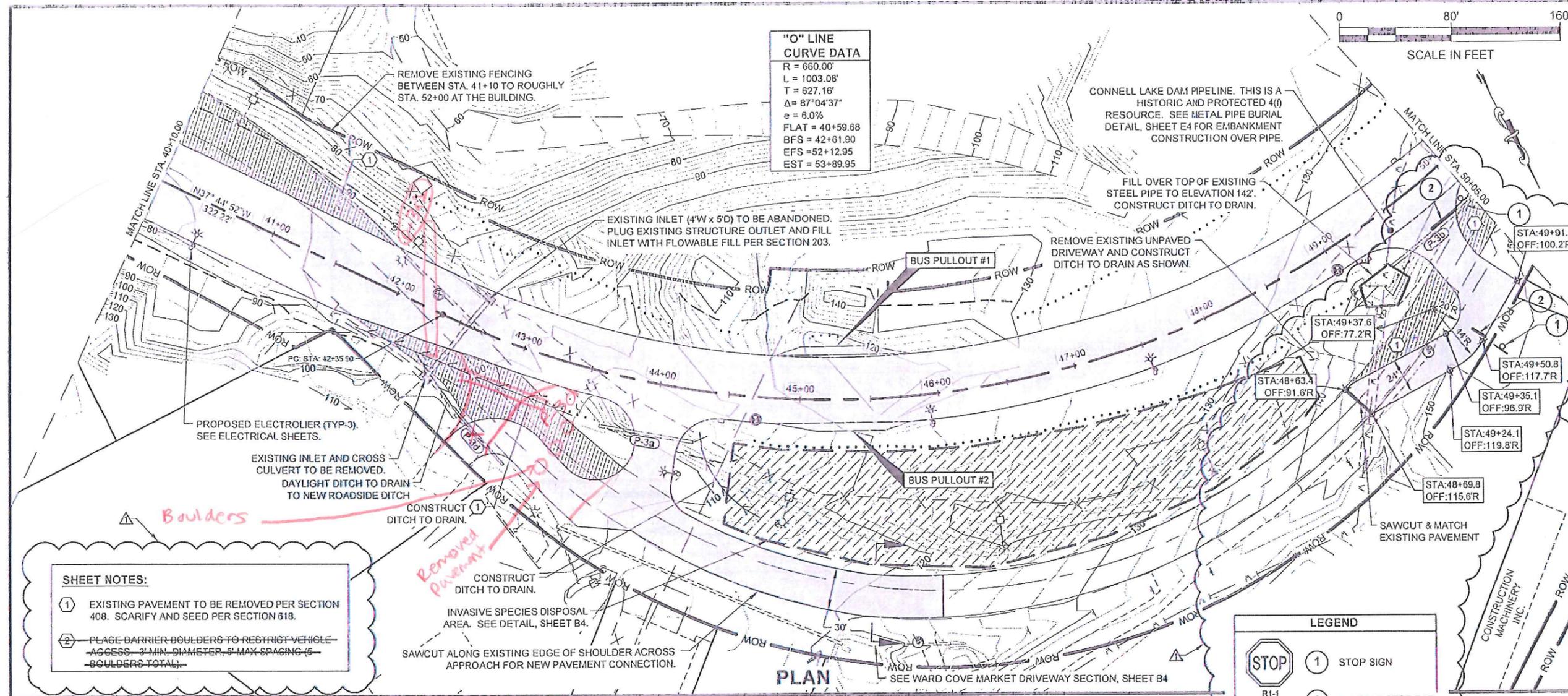
PROJECT DESIGNATION

68973

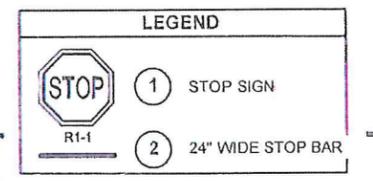
STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F1	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



- SHEET NOTES:**
- ① EXISTING PAVEMENT TO BE REMOVED PER SECTION 408. SCARIFY AND SEED PER SECTION 618.
 - ② PLACE BARRIER BOULDERS TO RESTRICT VEHICLE ACCESS. 3' MIN DIAMETER, 5' MAX SPACING (5' BOULDERS TOTAL).



PATH: Q:\KTN\68973\PLANSET\68973_F1-10_P&P\REALIGN.DWG

GRANTHAM, RICK L (DOT)
 Thursday, September 18, 2014 2:00:23 PM

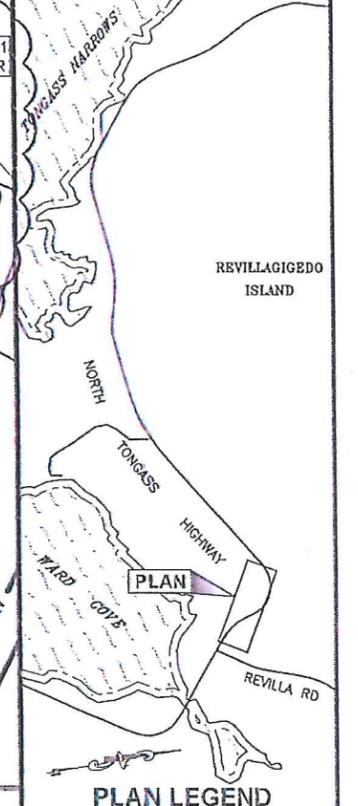
TAB F2

ADDITION NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION
1	9-18-14	DRIVEWAY CHANGE REMOVE BARRIER BOULDERS



CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY

DRAWN BY: N. GEARY, R. GRANTHAM

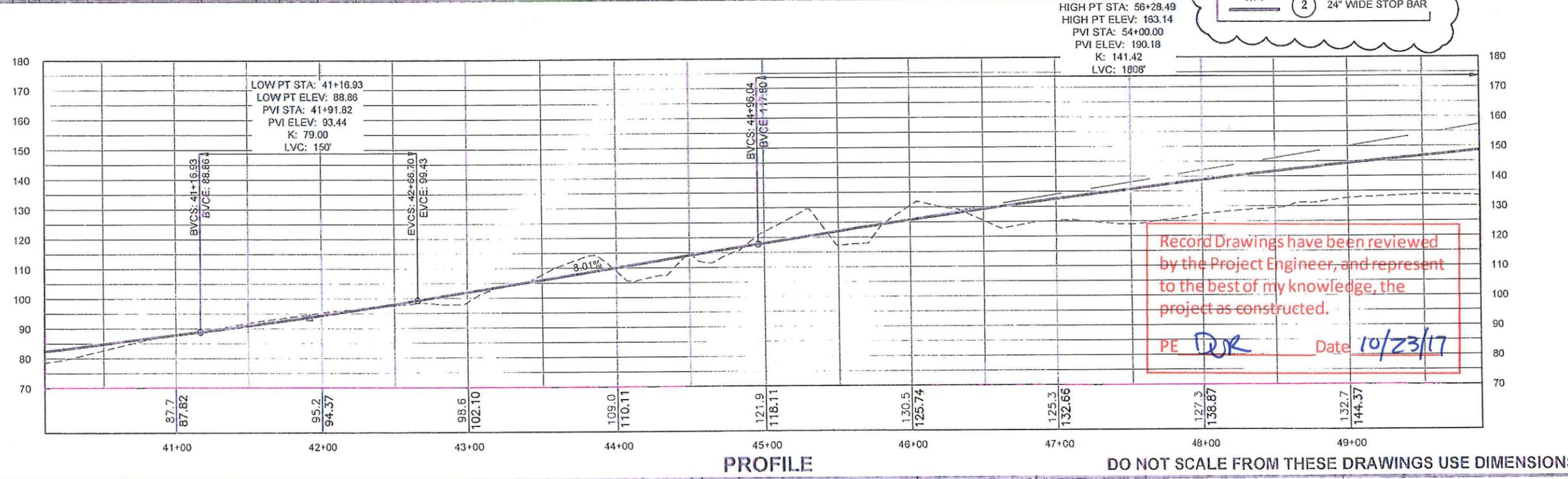
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

PLAN & PROFILE

PROJECT DESIGNATION: 68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
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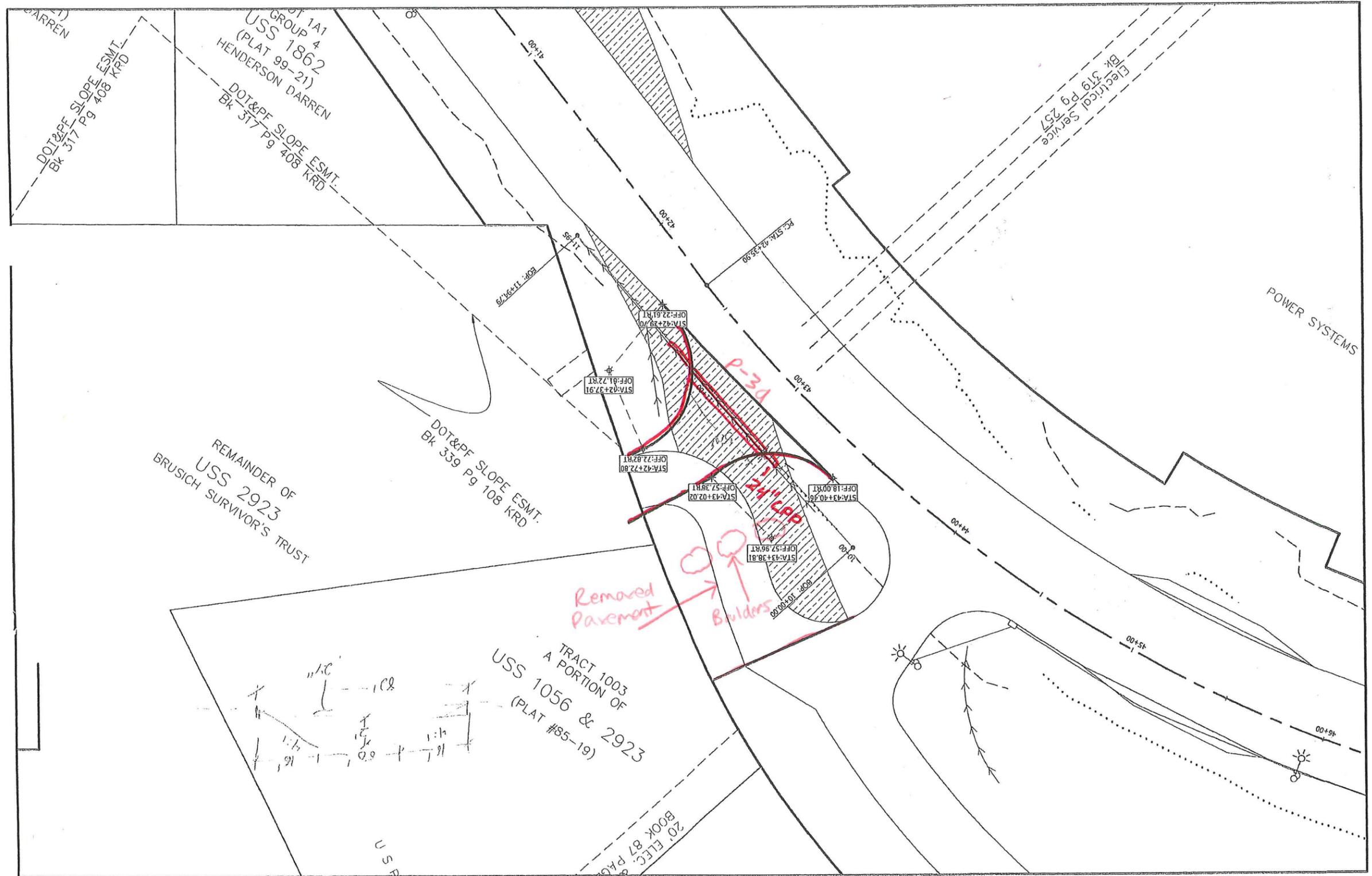


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

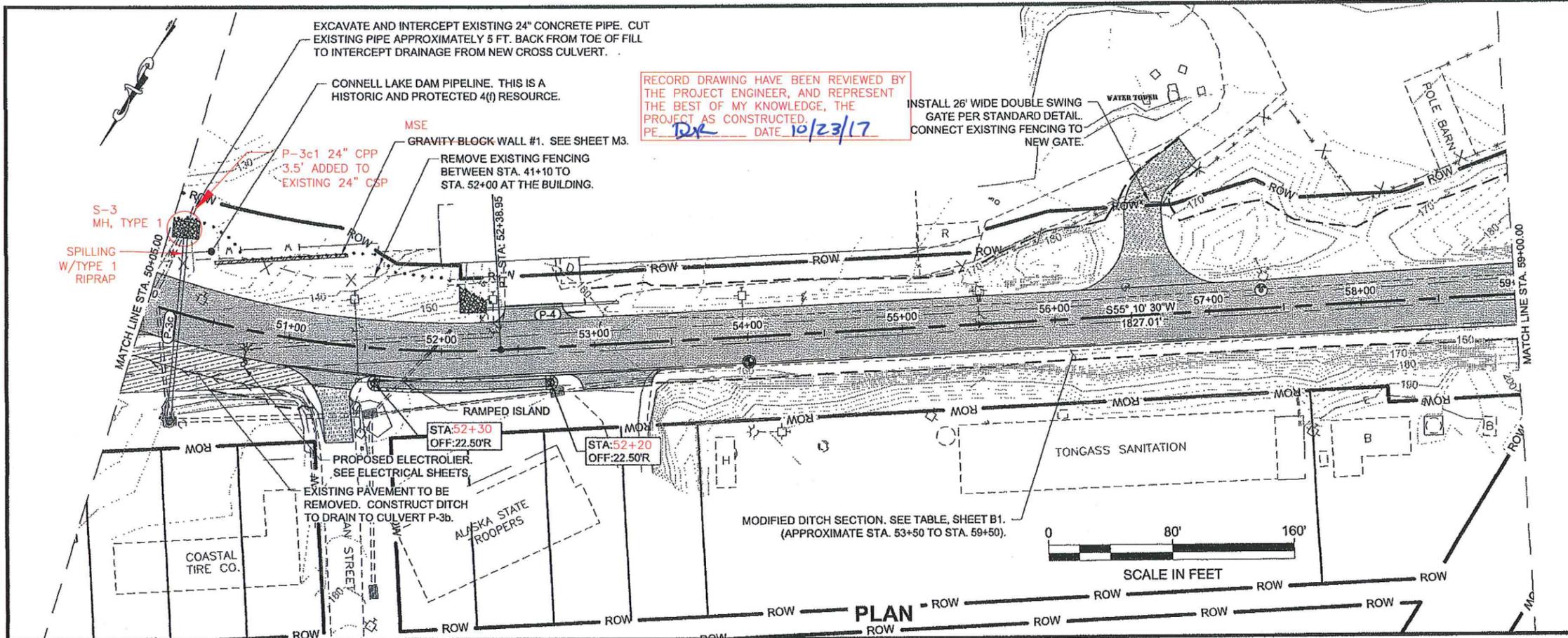
PE DJR Date 10/23/17

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE DK Date 10/23/17

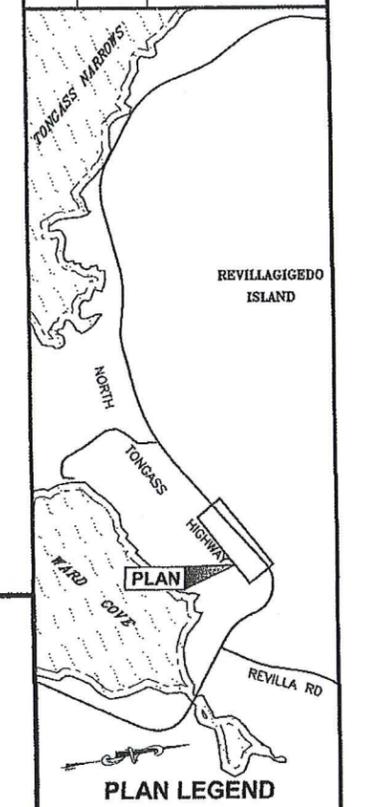


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 ATTACHMENT NUMBER
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION



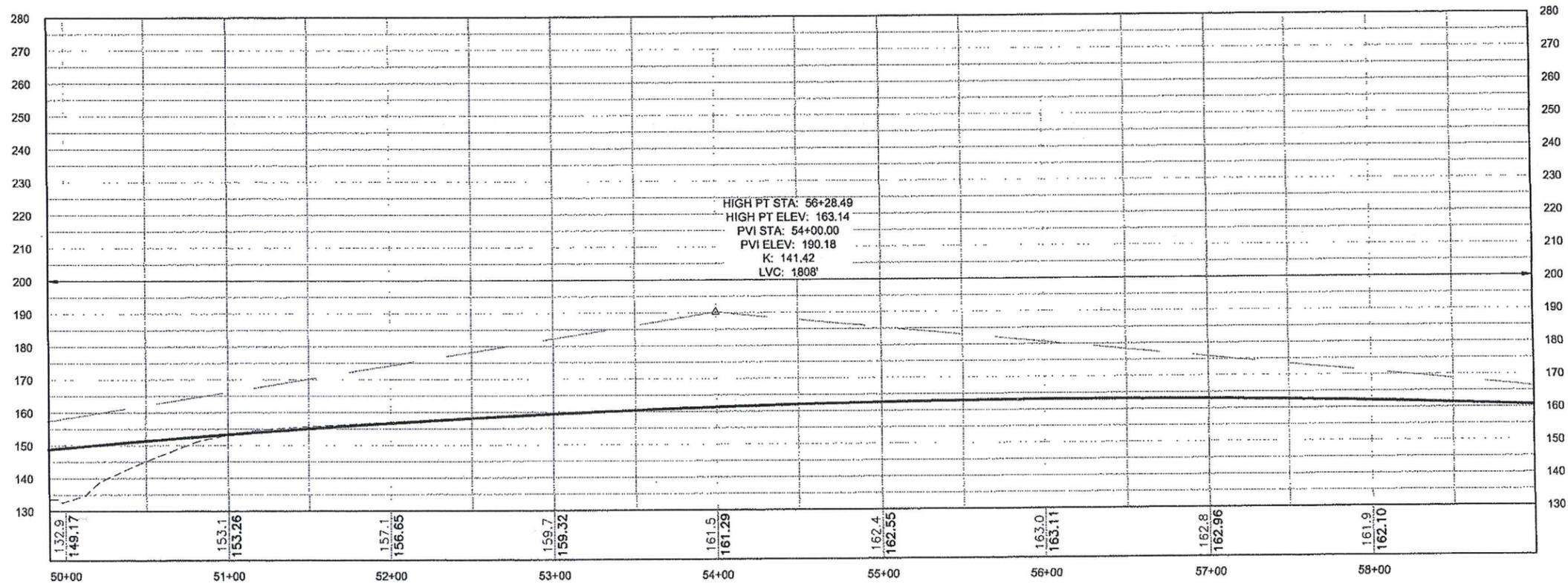
CHECKED BY: K. KARPSTEIN

 DESIGNED BY: N. GEARY
 DRAWN BY: N. GEARY, R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION
 KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

PLAN & PROFILE
 PROJECT DESIGNATION
68973

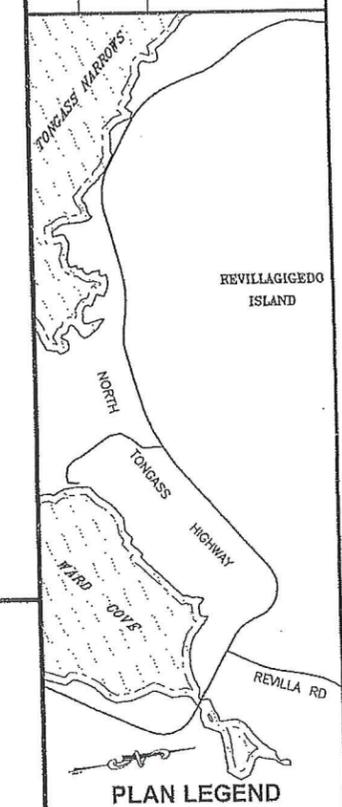
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F3	100



PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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 GRANHAM, RICK L (DOT)
 TAB: F4 Friday, January 11, 2013 11:25:53 AM
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS
 No. DATE DESCRIPTION



CHECKED BY: K. KARPSTEIN

 DESIGNED BY: N. GEARY
 DRAWN BY: N. GEARY, R. GRANHAM

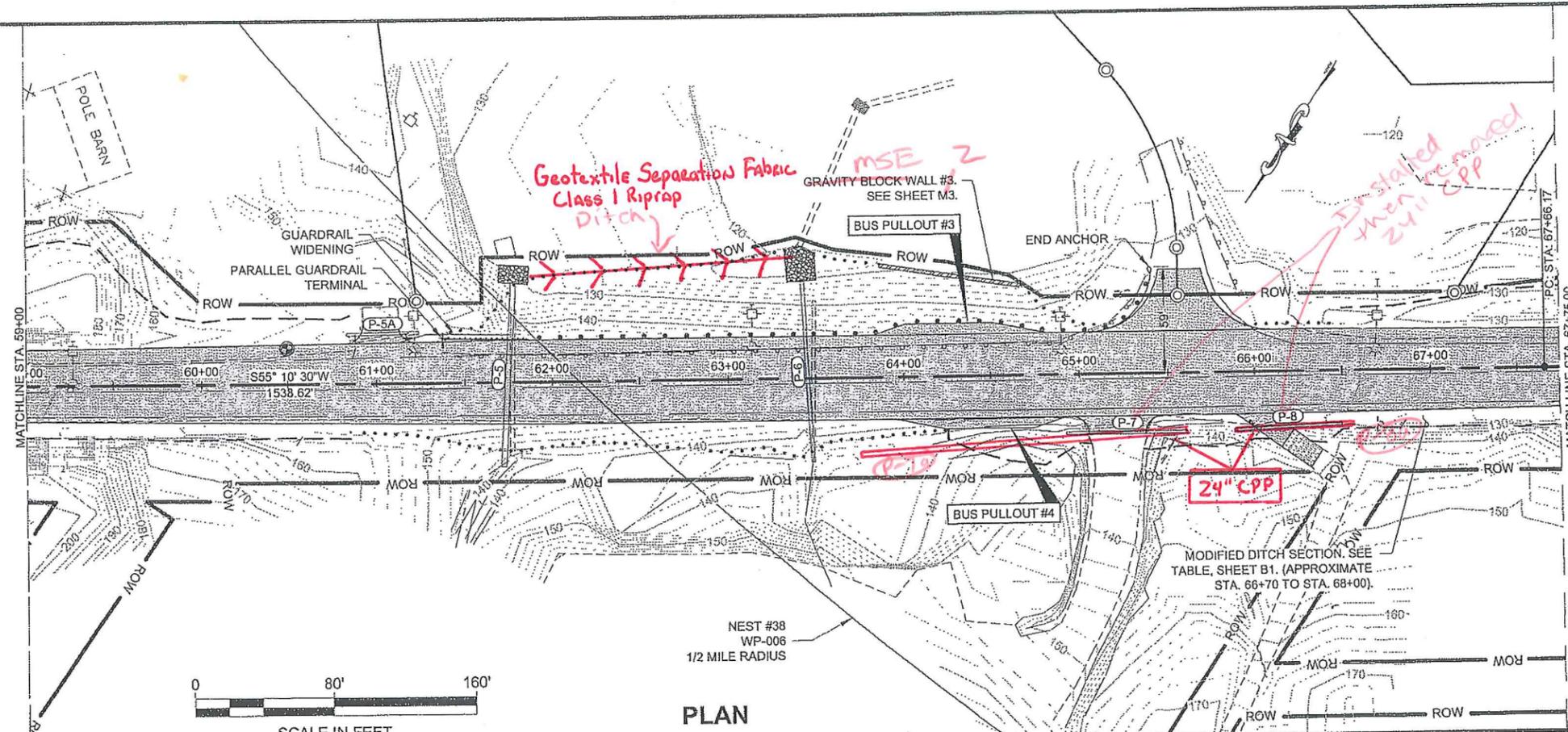
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION
 KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

PLAN & PROFILE

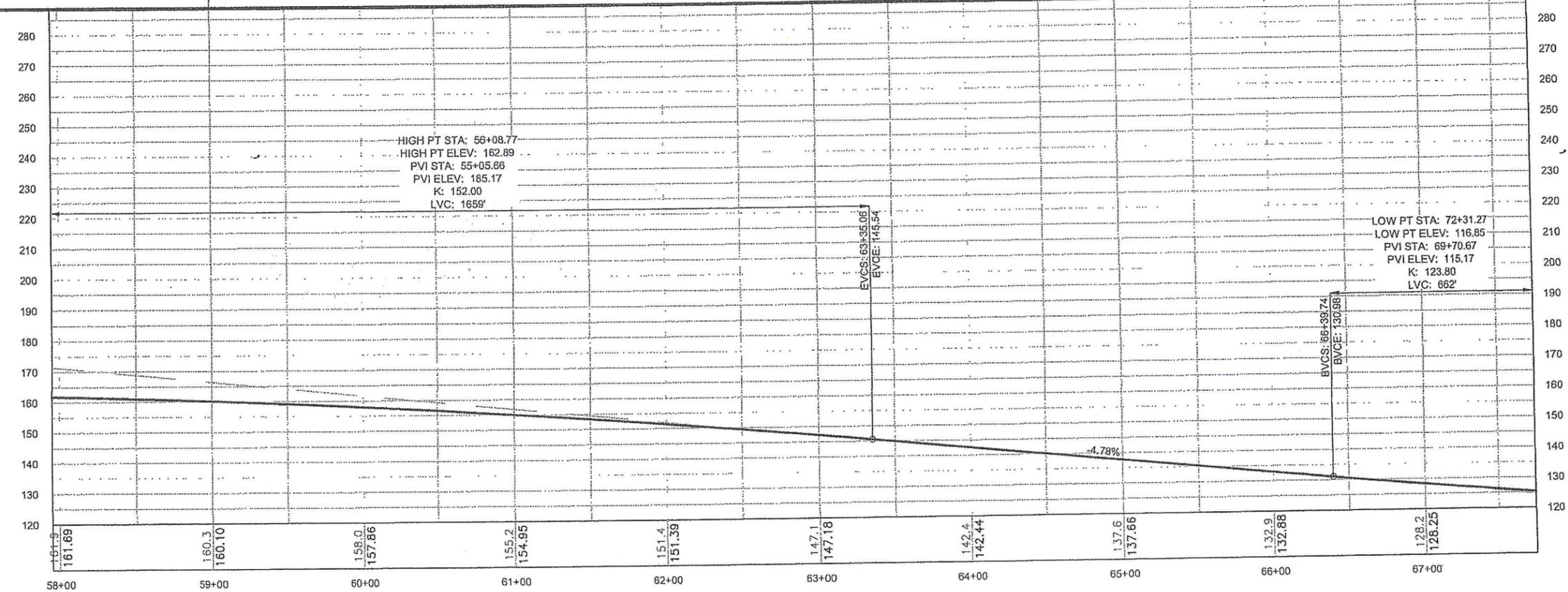
PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F4	100

Record Drawings have been reviewed
 by the Project Engineer, and represent
 to the best of my knowledge, the
 project as constructed.
 PE *DR* Date 10/23/17

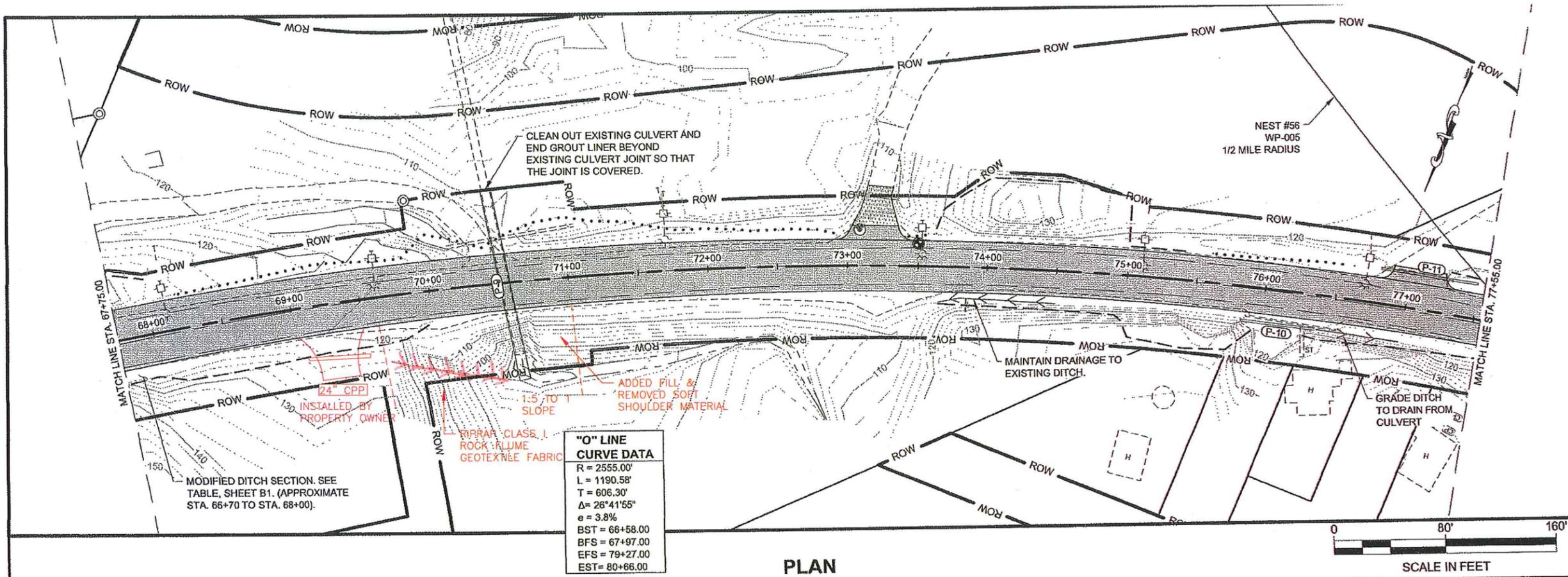


PLAN



PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



"O" LINE CURVE DATA

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L = 1190.58'
T = 606.30'
Δ = 26°41'55"
e = 3.8%
BST = 66+58.00
BFS = 67+97.00
EFS = 79+27.00
EST = 80+66.00

PLAN

PATH:
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GRANTHAM, RICK L (DOT)
TAB: F5 Friday, January 11, 2013 11:25:59 AM

APPENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY

DRAWN BY: N. GEARY, R. GRANTHAM

STATE OF ALASKA
49th
Karl D. Karpstein
CE-12904
REGISTERED PROFESSIONAL ENGINEER
1/28/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

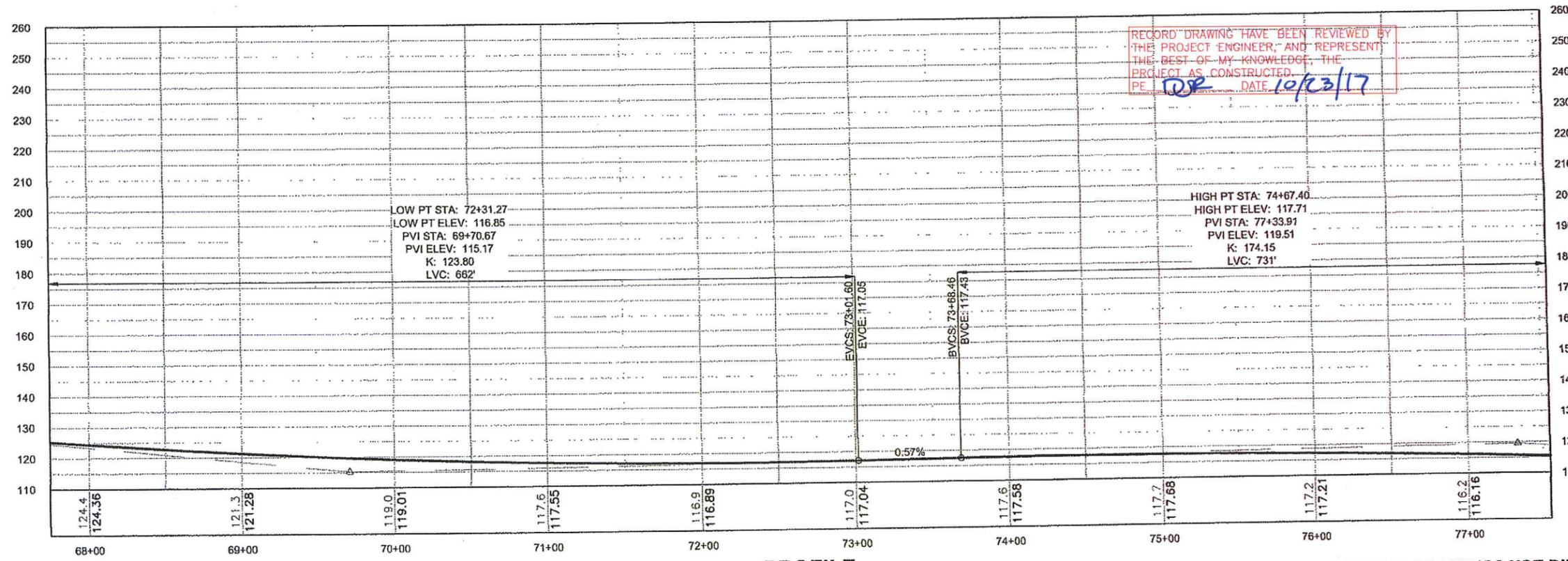
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

PLAN & PROFILE

PROJECT DESIGNATION

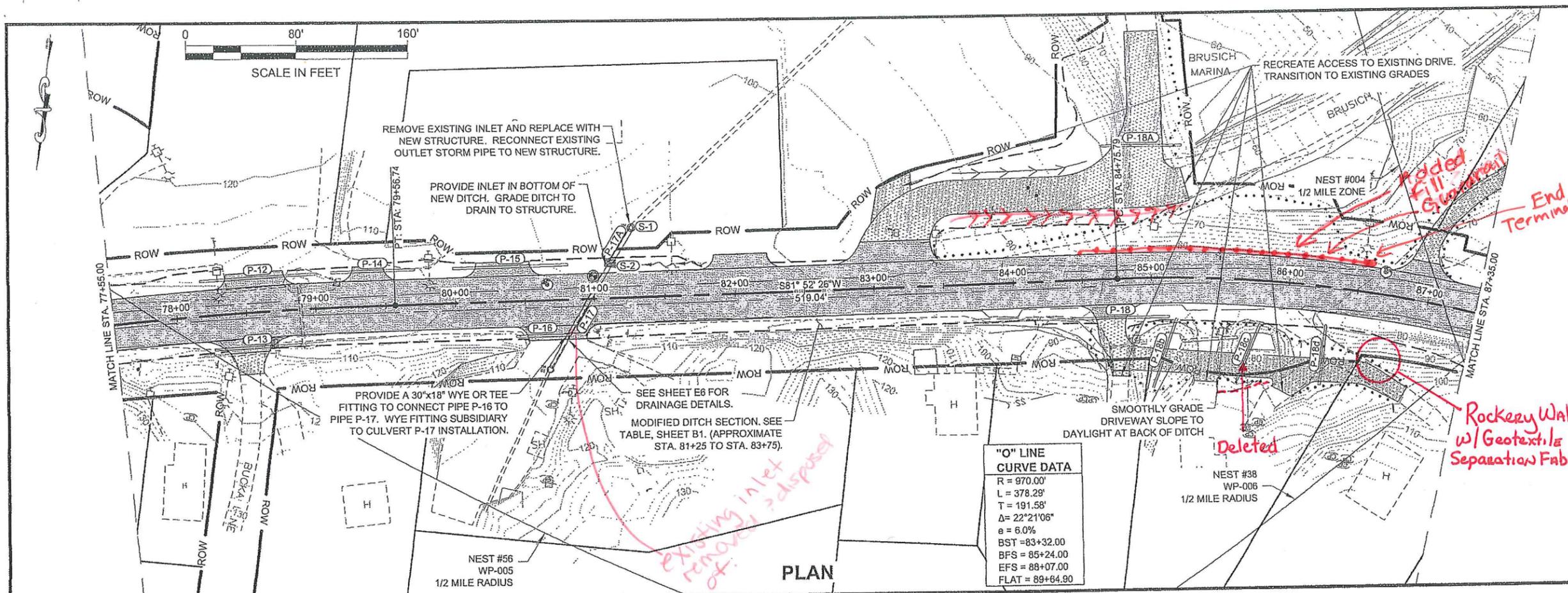
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F5	100



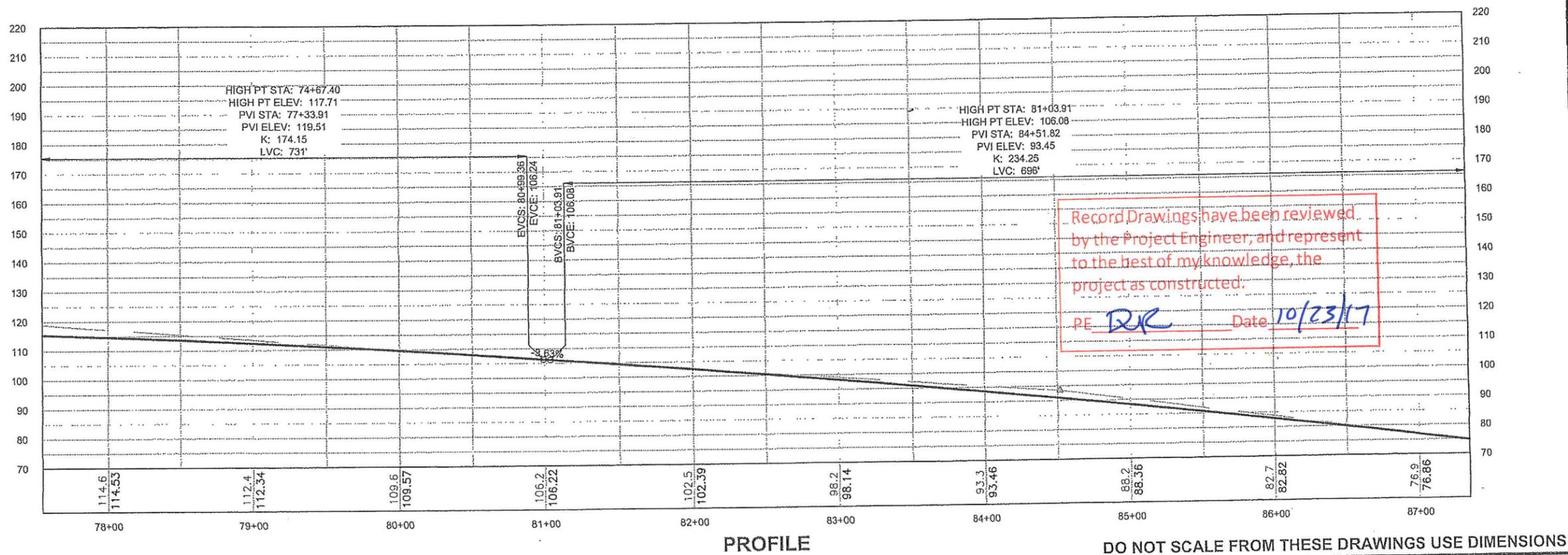
PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



"O" LINE CURVE DATA

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L = 378.29'
T = 191.58'
Δ = 22°21'06"
e = 6.0%
BST = 83+32.00
BFS = 85+24.00
EFS = 88+07.00
FLAT = 89+64.90



PATH: Q:\KTN\68973\PLANSET\68973_F1-10_P&P\REALIGN.DWG

GRANTHAM, RICK L (DOT)

TAB: F6 Tuesday, January 29, 2013 8:22:29 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY

DRAWN BY: N. GEARY, R. GRANTHAM

STATE OF ALASKA
49th
KEITH D. KARPSTEIN
REGISTERED PROFESSIONAL ENGINEER
CE-12904
1/31/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

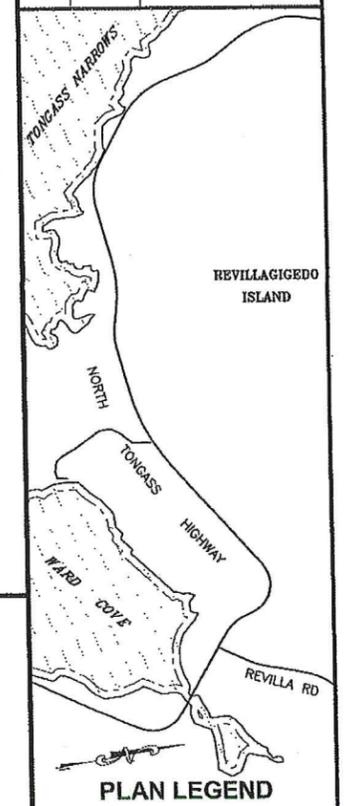
PLAN & PROFILE

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F6	100



CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY

DRAWN BY: N. GEARY, R. GRANHAM

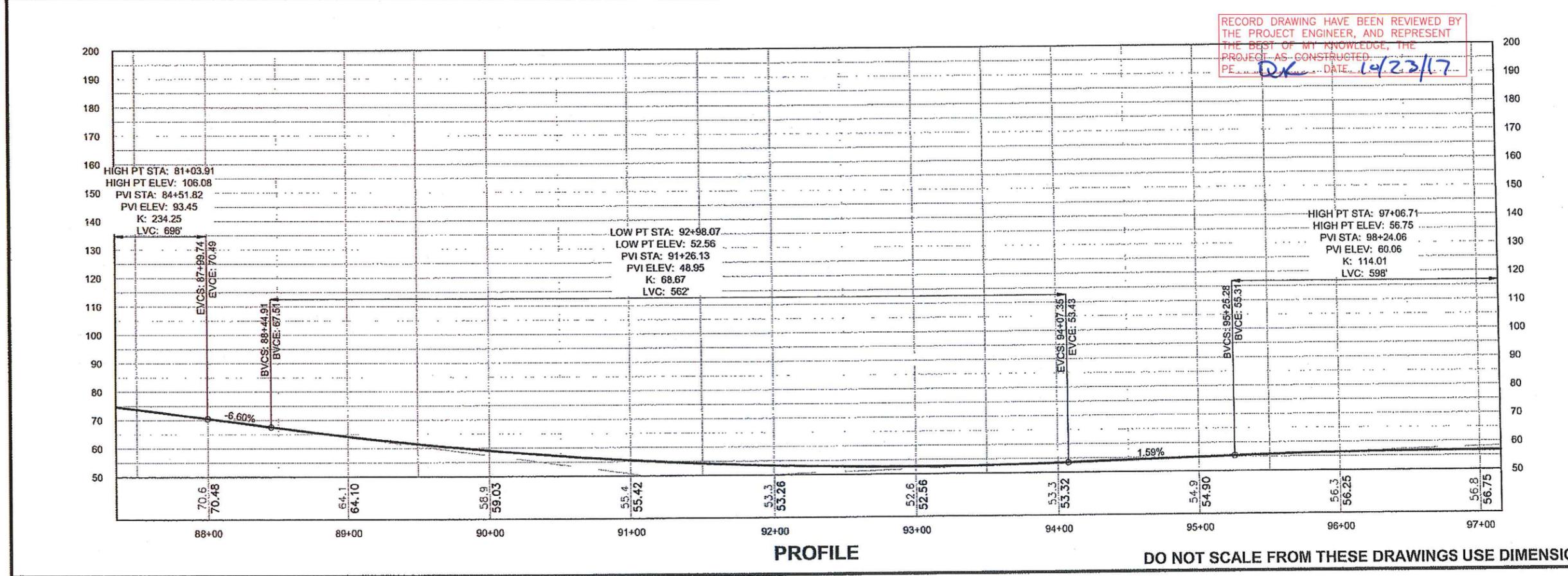
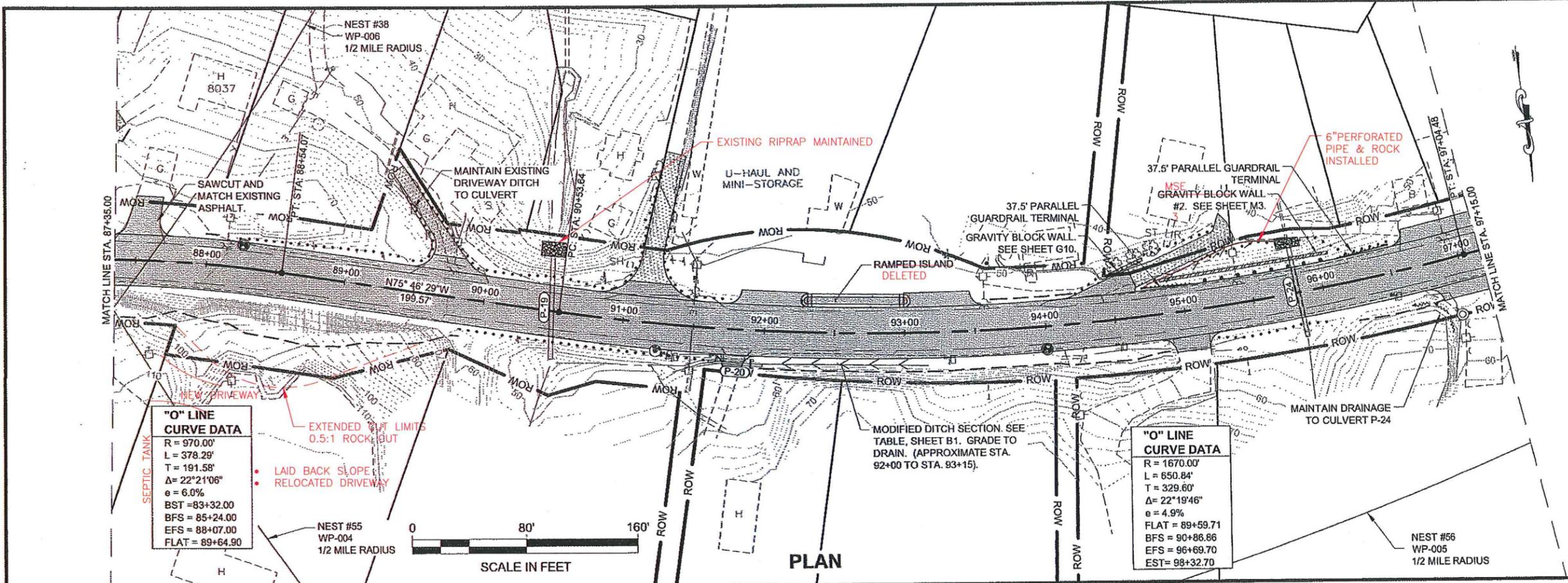
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

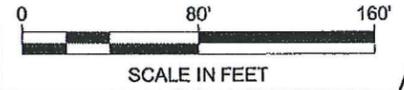
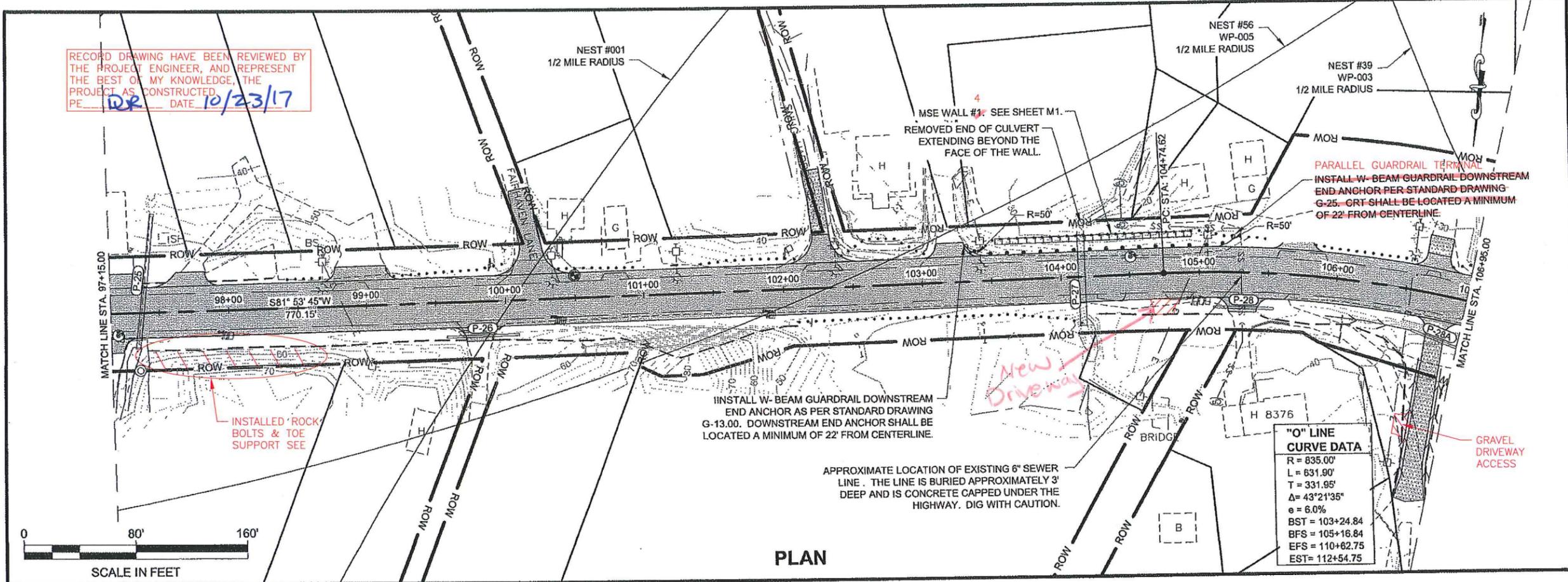
PLAN & PROFILE

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F7	100



RECORD DRAWING HAS BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE: DR DATE: 10/23/17



PLAN

PATH:
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 GRANHAM, RICK L (DOT)
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
 DRAWN BY: N. GEARY, R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

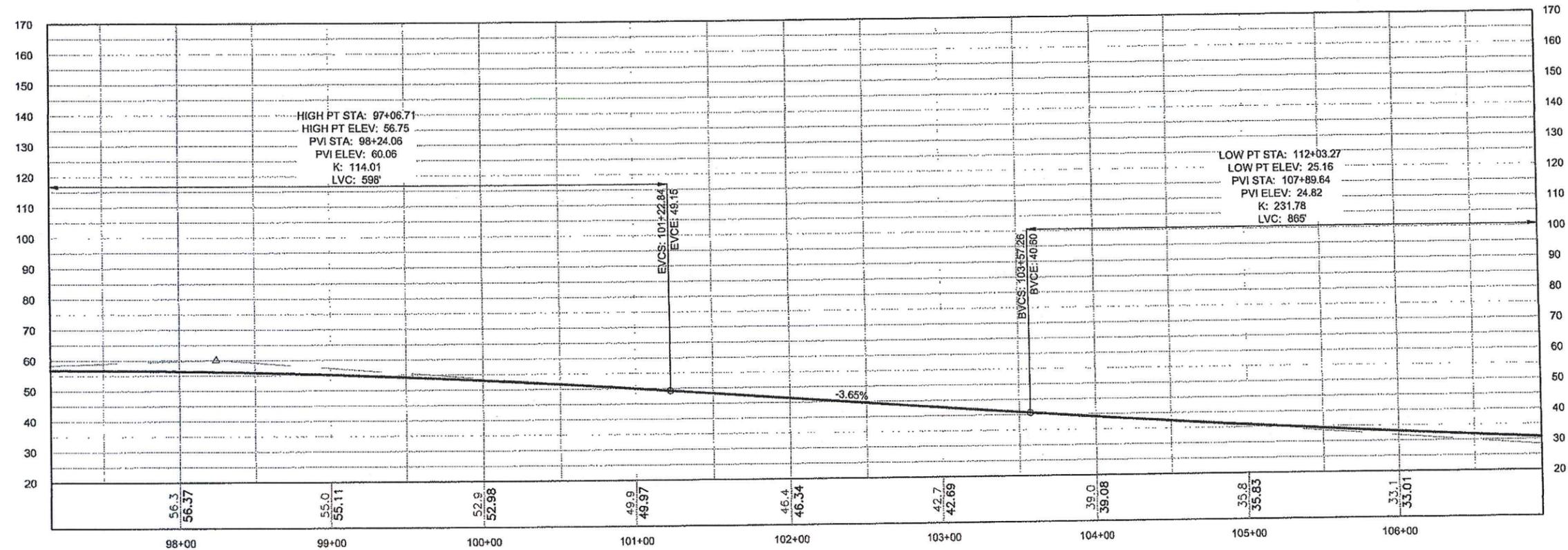
KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

PLAN & PROFILE

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F8	100

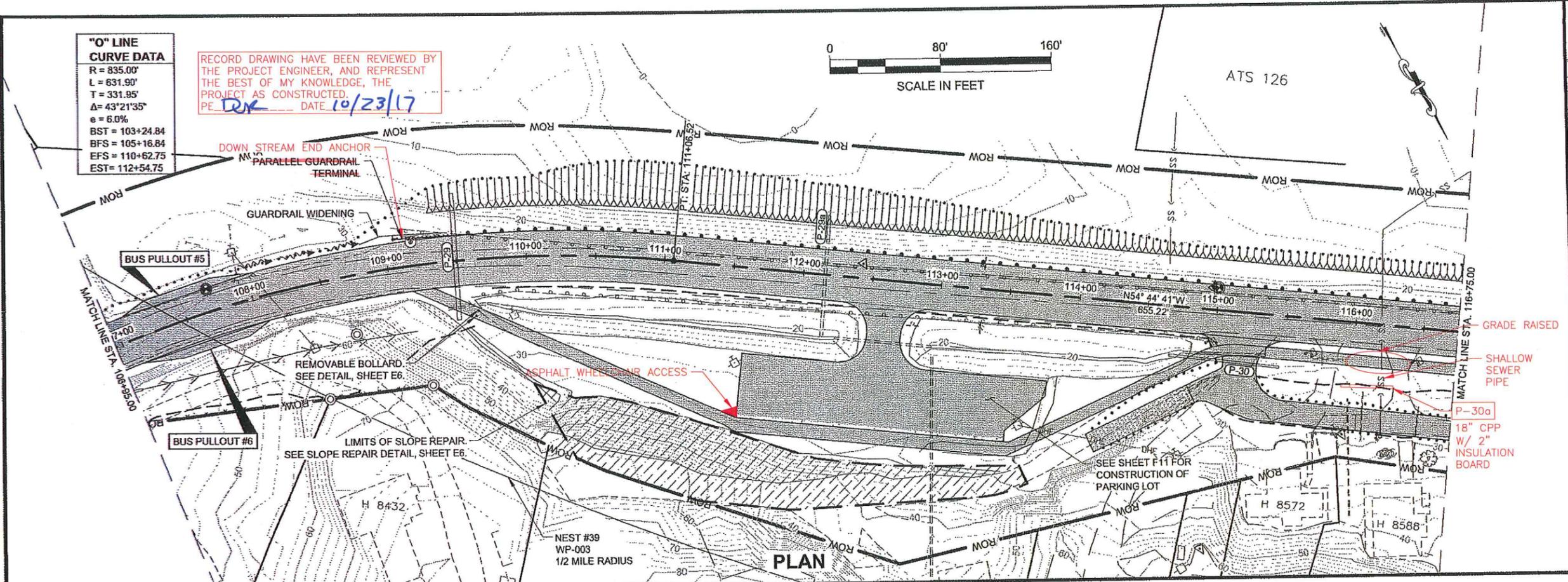
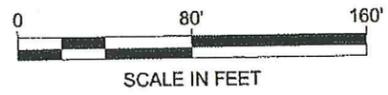


PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

"O" LINE CURVE DATA
 R = 835.00'
 L = 631.90'
 T = 331.95'
 Δ = 43°21'35"
 e = 6.0%
 BST = 103+24.84
 BFS = 105+16.84
 EFS = 110+62.75
 EST = 112+54.75

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE: RJK DATE: 10/23/17



PATH:
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 GRANHAM, RICK L (DOT)
 TAB: F9 Tuesday, January 29, 2013 9:27:15 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
 DRAWN BY: N. GEARY, R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

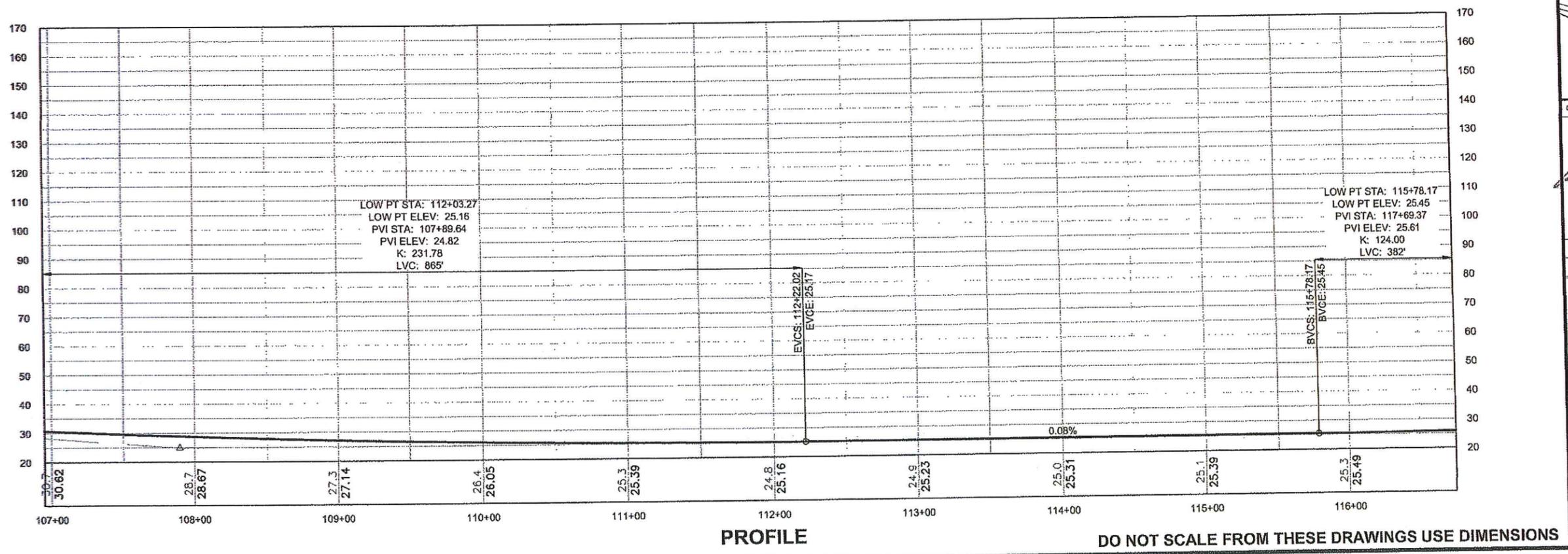
KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

PLAN & PROFILE

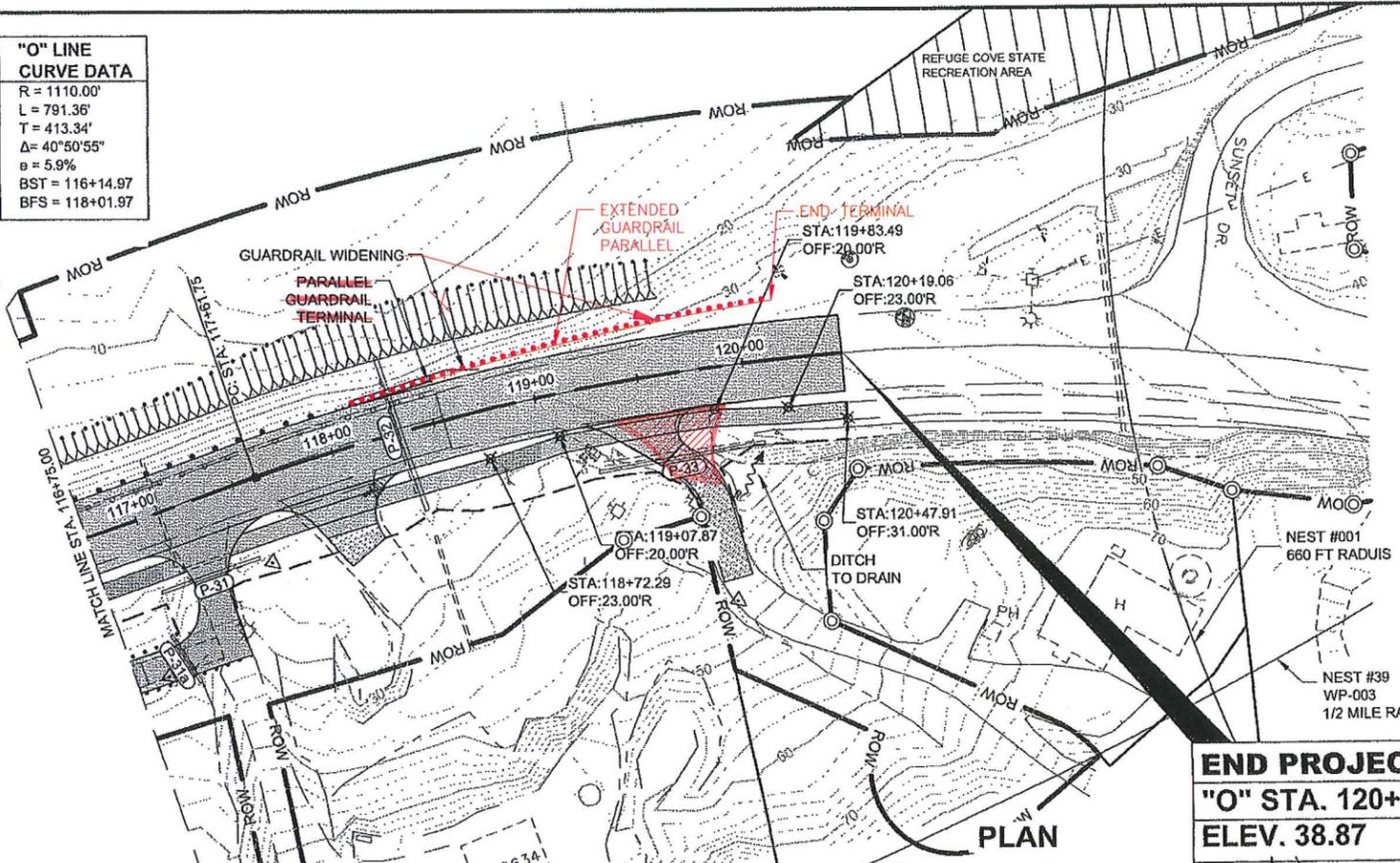
PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F9	100

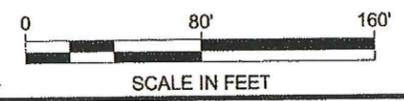


**"O" LINE
CURVE DATA**
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 L = 791.36'
 T = 413.34'
 Δ = 40°50'55"
 e = 5.9%
 BST = 116+14.97
 BFS = 118+01.97



END PROJECT
"O" STA. 120+48.00
ELEV. 38.87

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE: *DK* DATE: 10/23/17



PATH:
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GRANTHAM, RICK L (DOT)
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
 DRAWN BY: N. GEARY, R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

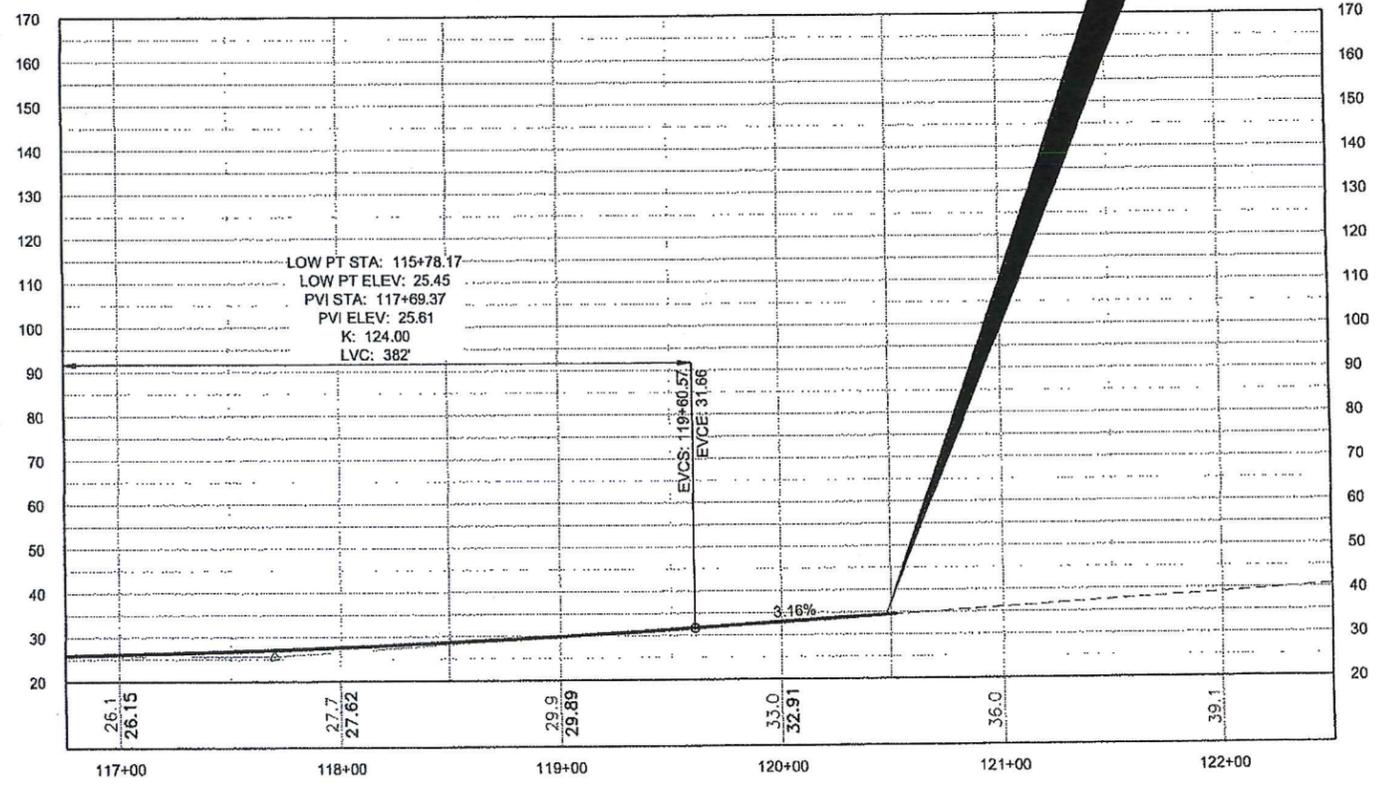
**KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973**

PLAN & PROFILE

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013

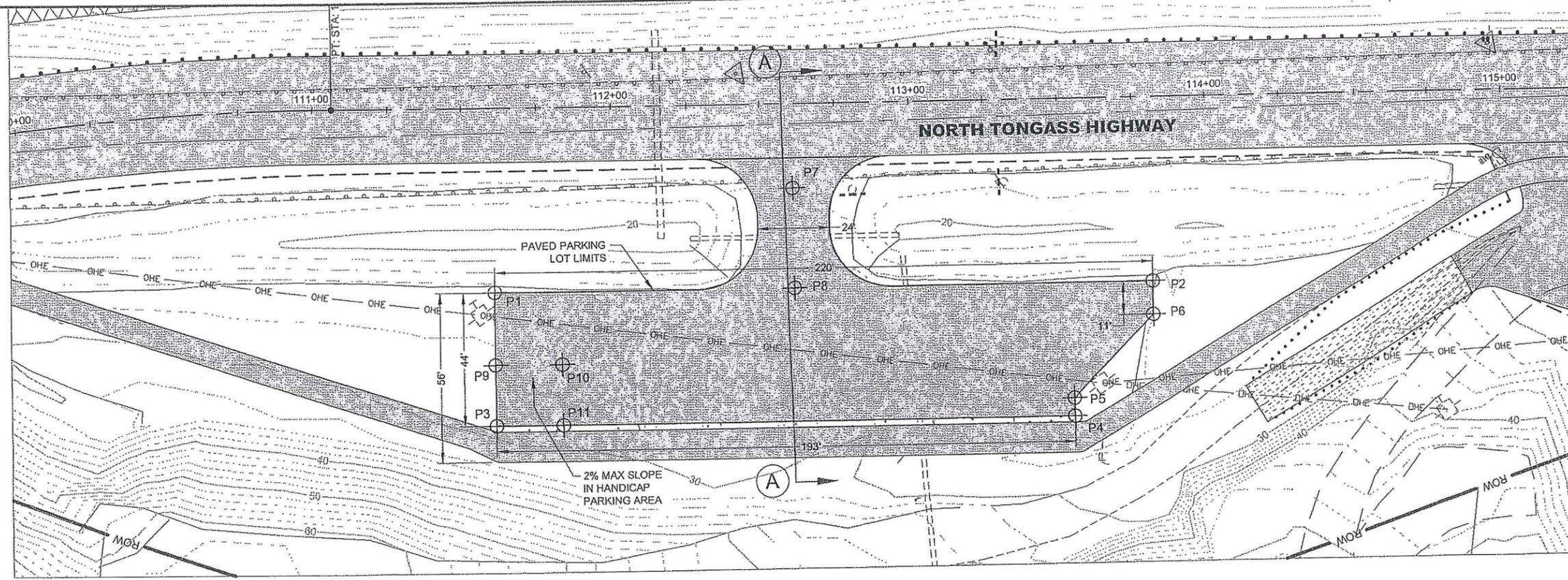
SHEET NUMBER	TOTAL SHEETS
F10	100



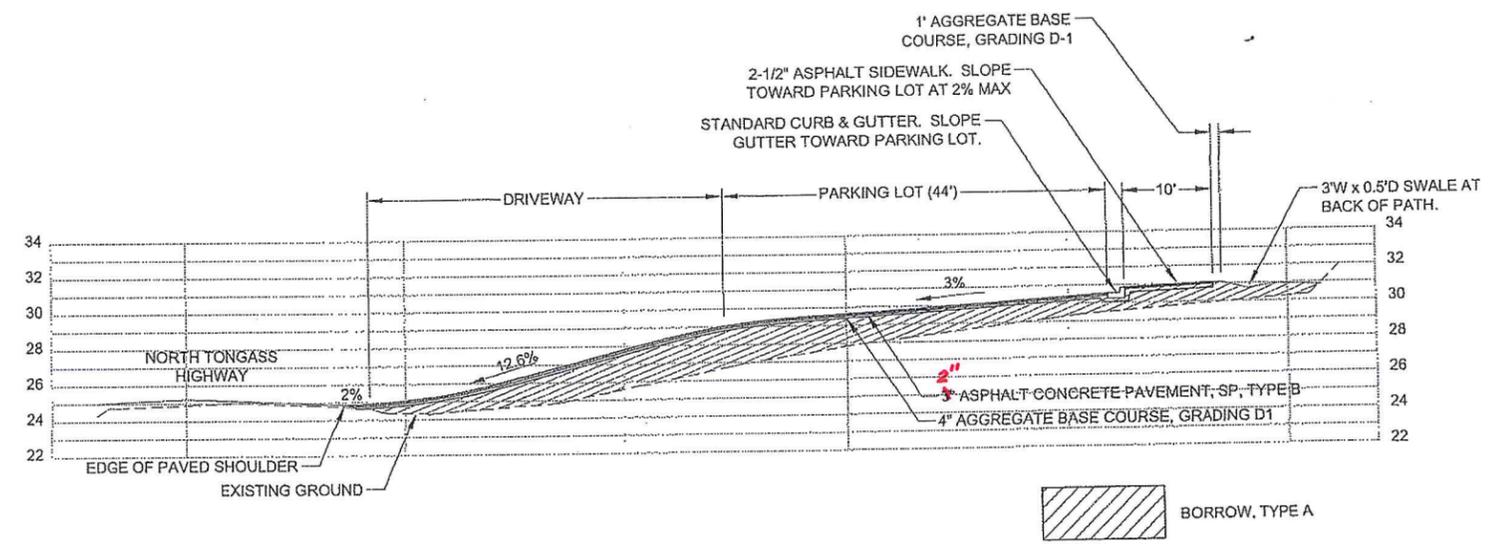
PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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GRANTHAM, RICK L (DOT)
TAB: F11 Friday, January 11, 2013 11:27:21 AM
ADDENDUM NUMBER
ATTACHMENT NUMBER
RECORD OF REVISIONS
No. DATE DESCRIPTION



POINT	NORTHING	EASTING	ASPHALT CONCRETE ELEVATION
P1	1,310,646.693	3,083,523.017	29.17'
P2	1,310,773.680	3,083,343.367	29.68'
P3	1,310,682.632	3,083,548.401	30.49'
P4	1,310,794.037	3,083,390.801	30.55'
P5	1,310,789.137	3,083,387.337	30.43'
P6	1,310,782.674	3,083,349.704	30.02'
P7	1,310,667.494	3,083,422.308	25.26'
P8	1,310,704.440	3,083,441.356	29.64'
P9	1,310,666.240	3,083,536.816	30.09'
P10	1,310,678.939	3,083,518.851	30.09'
P11	1,310,695.330	3,083,530.436	30.49'



SECTION A-A

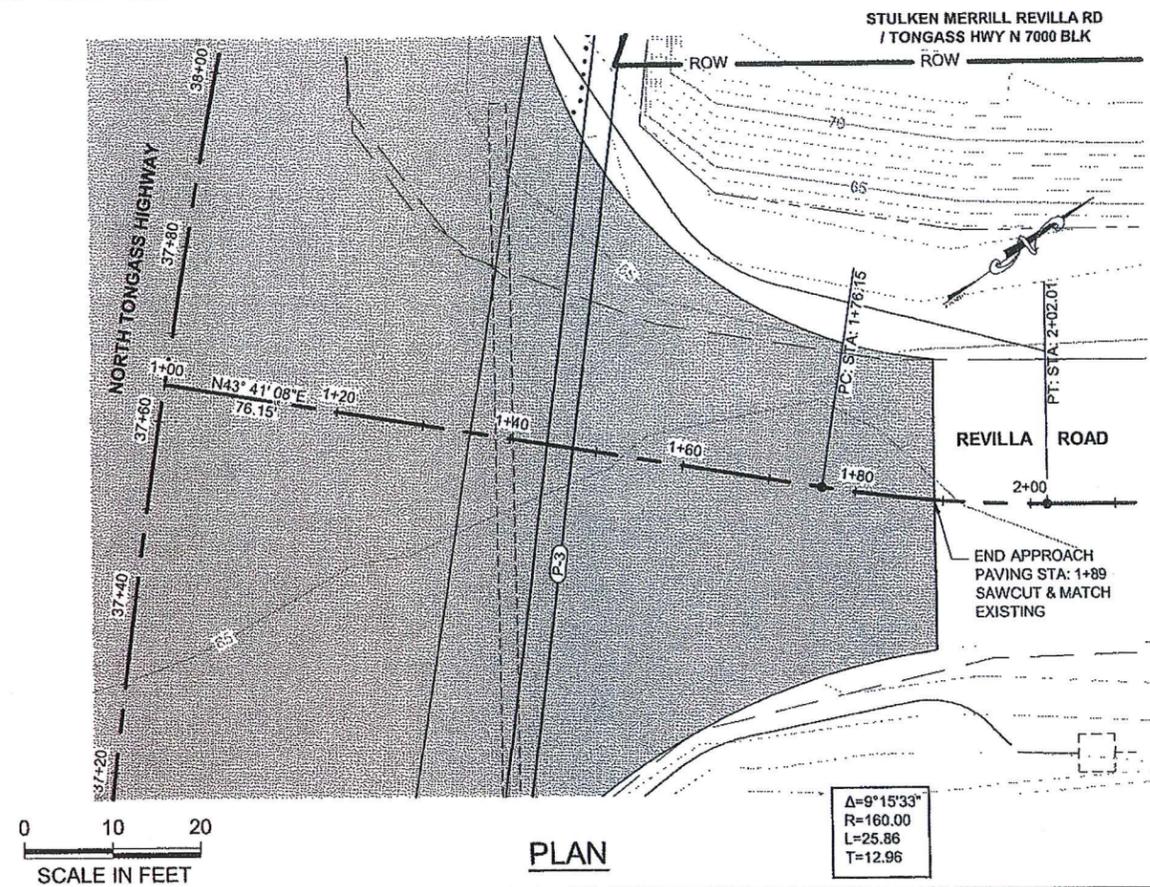
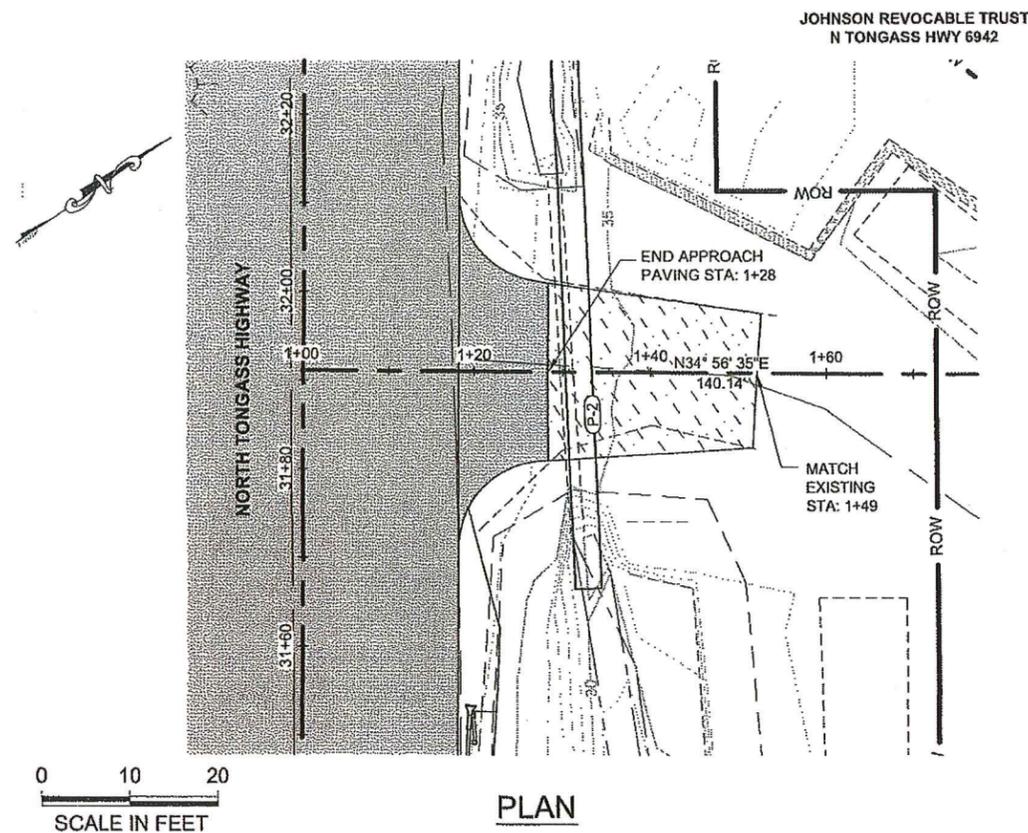
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE DJR Date 10/23/17

CHECKED BY: K. KARPSTEIN
DESIGNED BY: N. GEARY
DRAWN BY: N. GEARY, R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

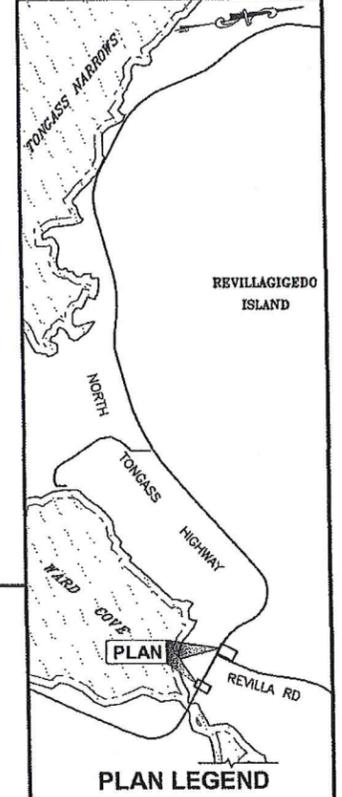
8.5 MILE PARKING LOT SITE PLAN
PROJECT DESIGNATION
68973
STATE ALASKA YEAR 2013
SHEET NUMBER F11 TOTAL SHEETS 100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH:
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(UPDATE).DWG
GRANTHAM, RICK L (DOT)
TAB: G1 Friday, January 11, 2013 11:29:20 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY

DRAWN BY: R. GRANTHAM

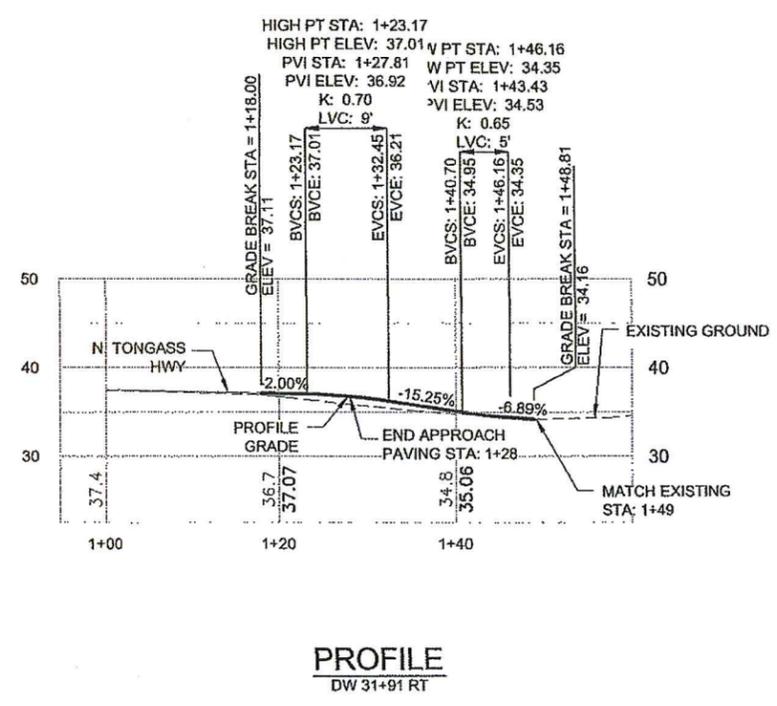
STATE OF ALASKA
49th
Karl D. Karpstein
REGISTERED PROFESSIONAL ENGINEER
CE-12904
1/28/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

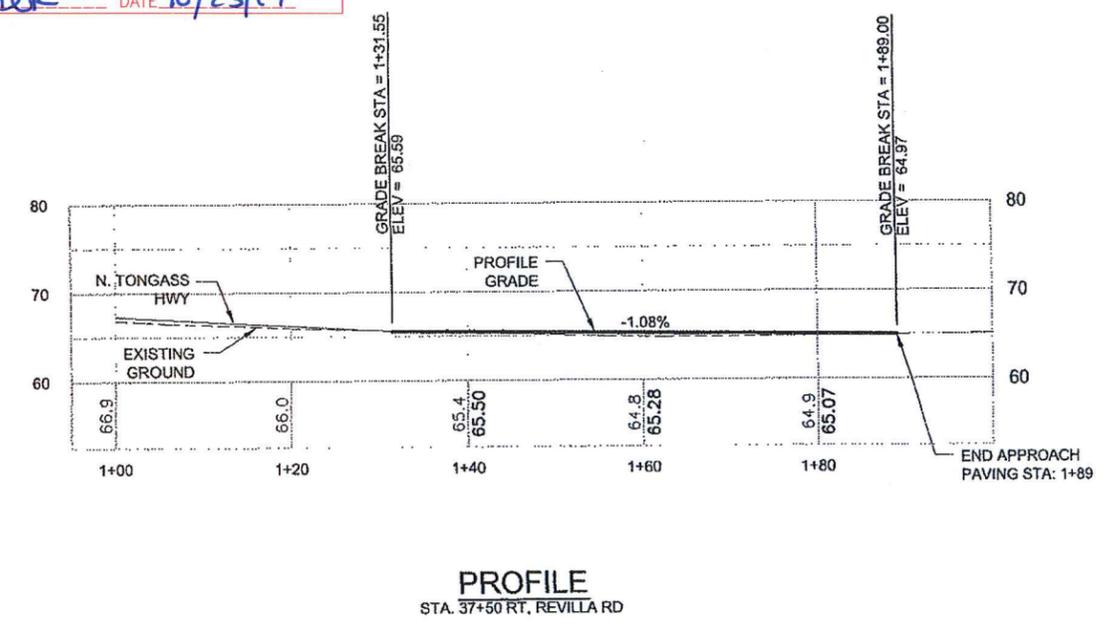
**KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973**

**DRIVEWAY
PLAN & PROFILE**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G1	100



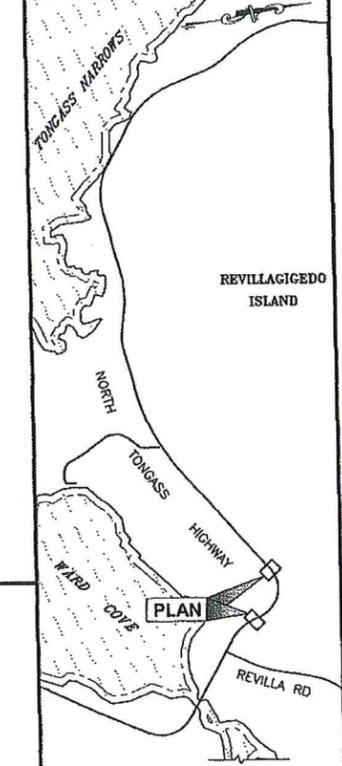
RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE: DR DATE 10/23/17



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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 (UPDATE).DWG
 GRANTHAM, RICK L (DOT)
 TAB: G2 Friday, January 11, 2013 11:29:31 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: K. KARPSTEIN



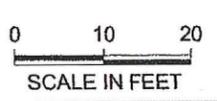
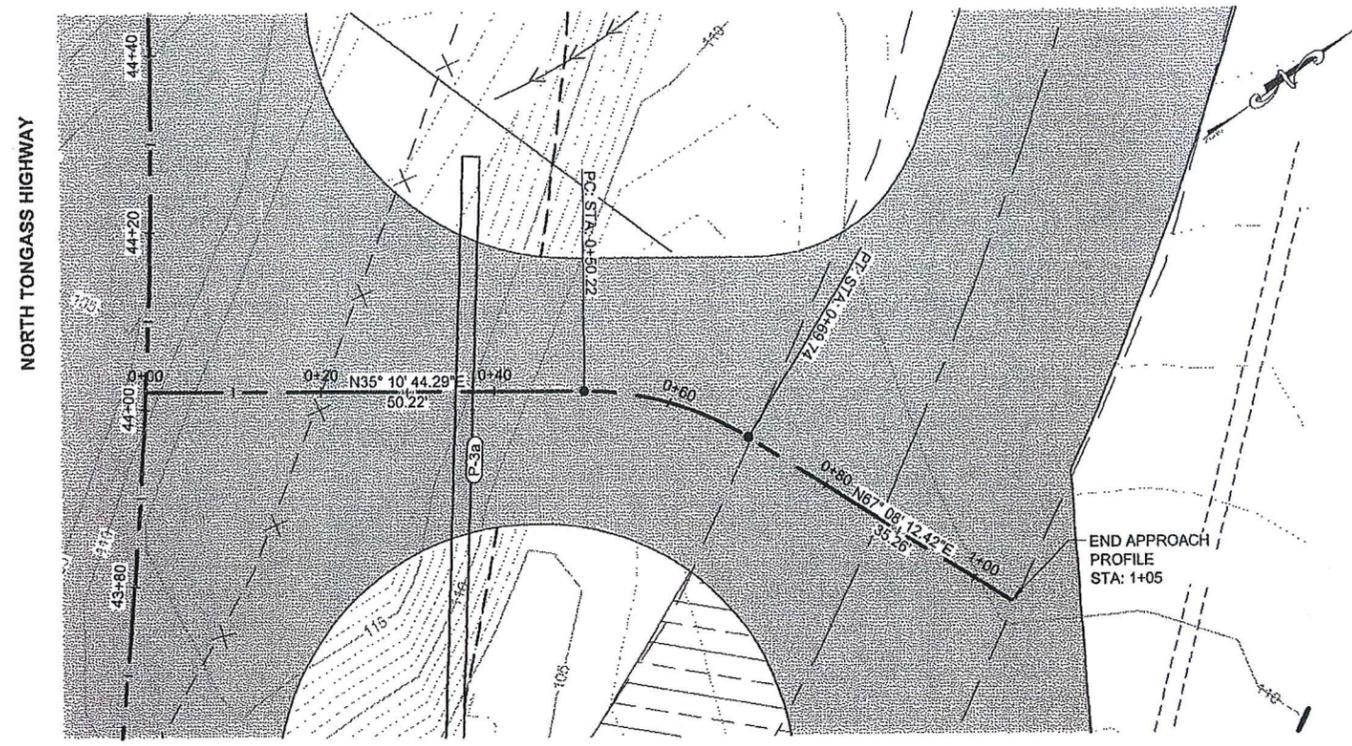
DESIGNED BY: N. GEARY
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

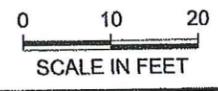
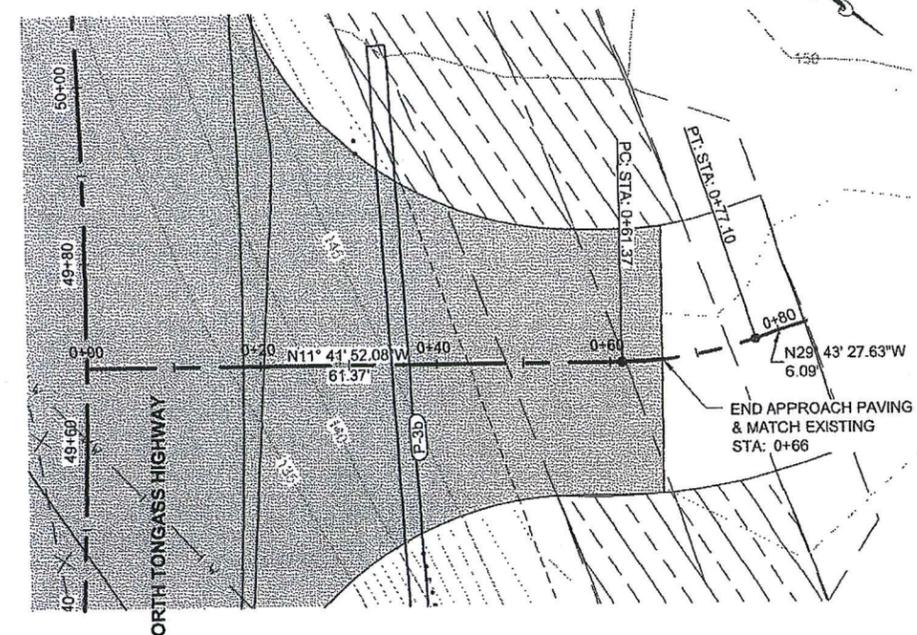
**DRIVEWAY
 PLAN & PROFILE**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G2	100



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 L=19.52
 T=10.02

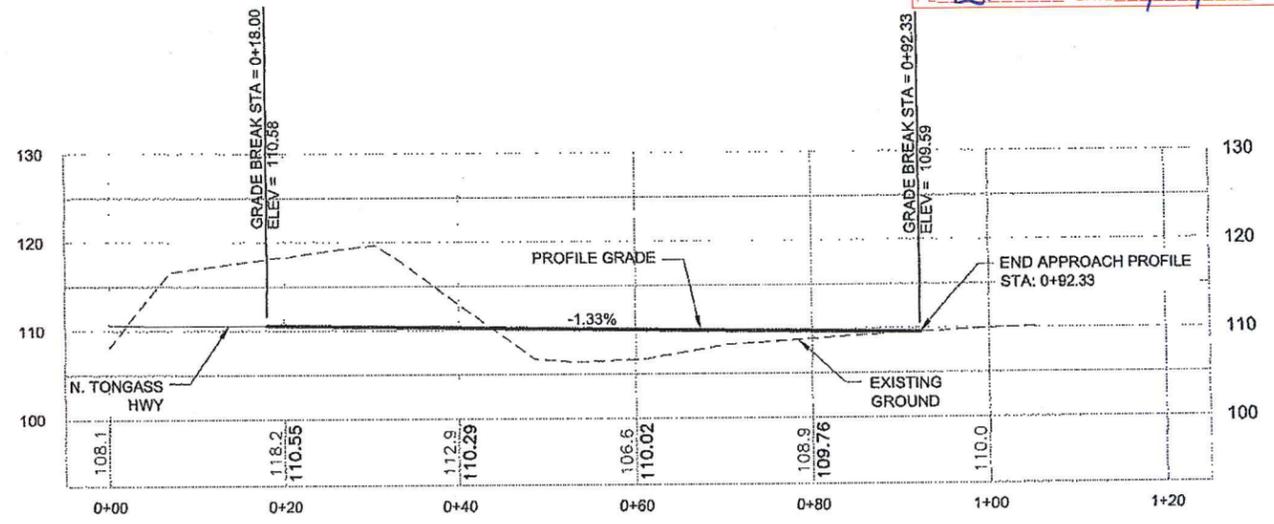
PLAN



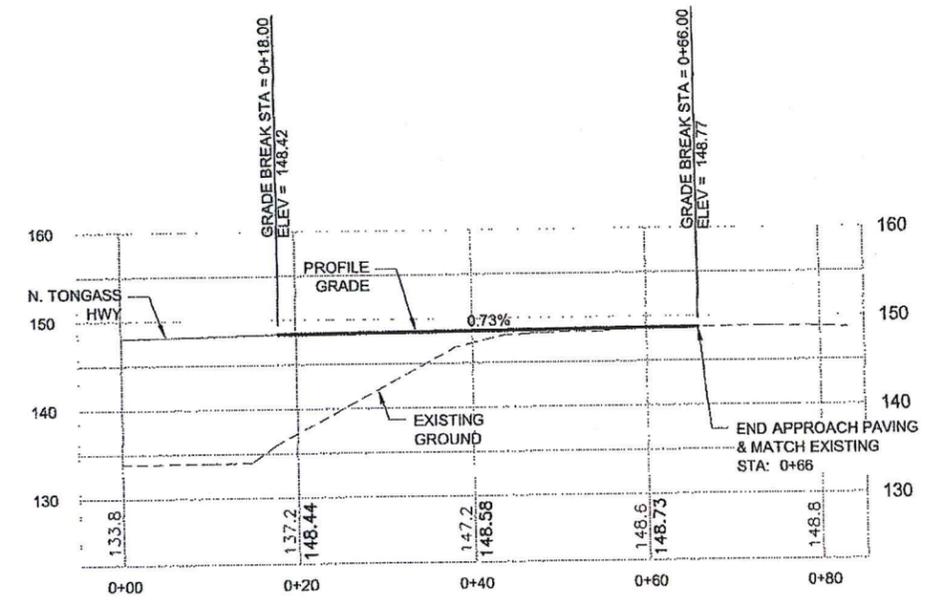
Δ=18°01'36"
 R=50.000
 L=15.731
 T=7.93

PLAN

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE: *RK* DATE: 10/23/17



PROFILE
 DW 44+02 RT



PROFILE
 DW 49+68.2 RT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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 (UPDATE).DWG
 GRANTHAM, RICK L (DOT)
 TAB: G3 Friday, January 11, 2013 11:29:42 AM

ADDENDUM NUMBER
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN



DESIGNED BY: N. GEARY

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

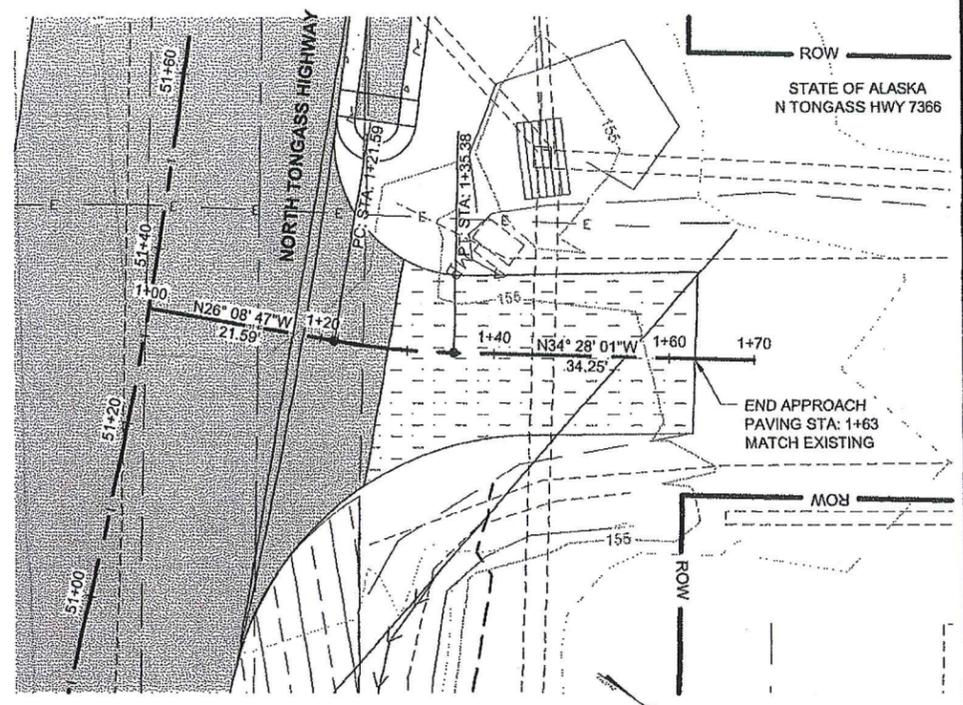
KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

**DRIVEWAY
 PLAN & PROFILE**

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013

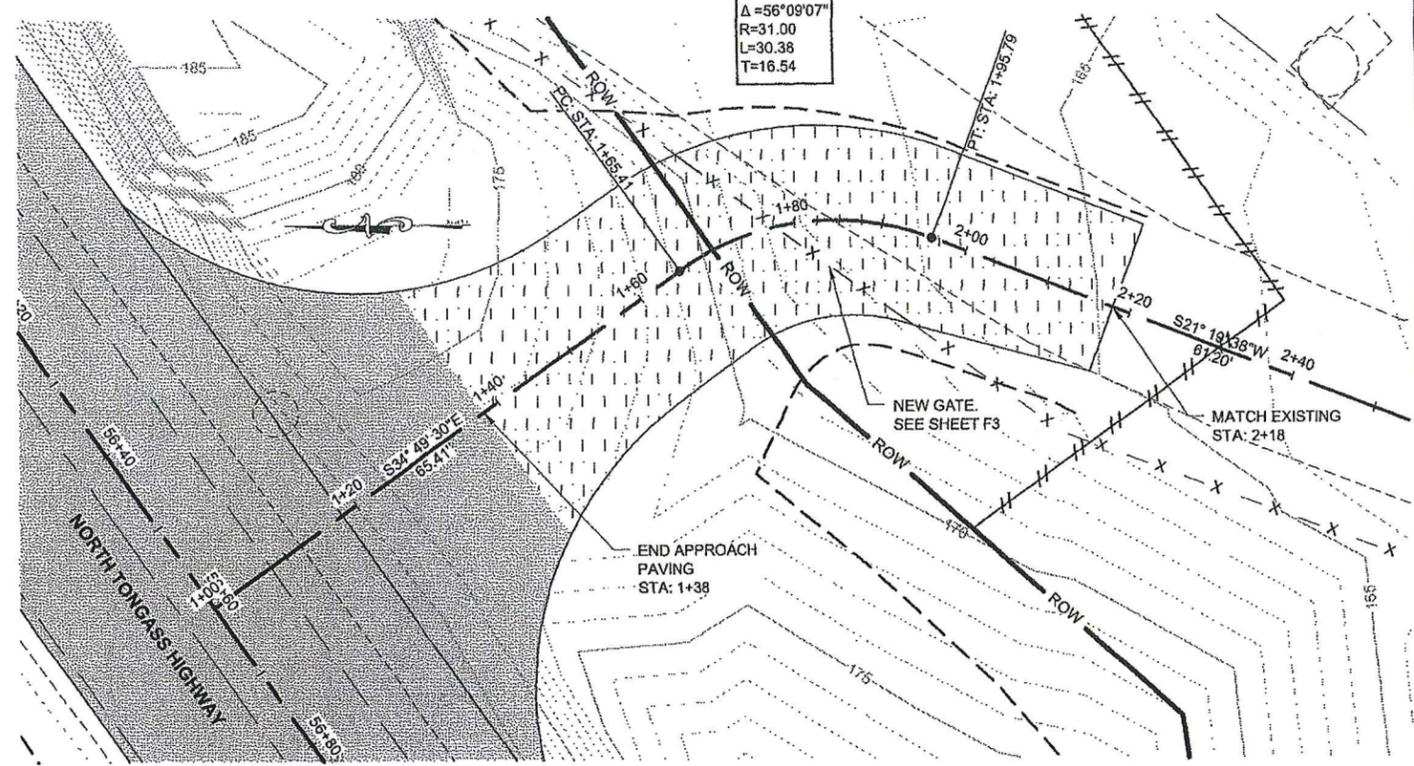
SHEET NUMBER	TOTAL SHEETS
G3	100



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 $T = 6.91$

PLAN

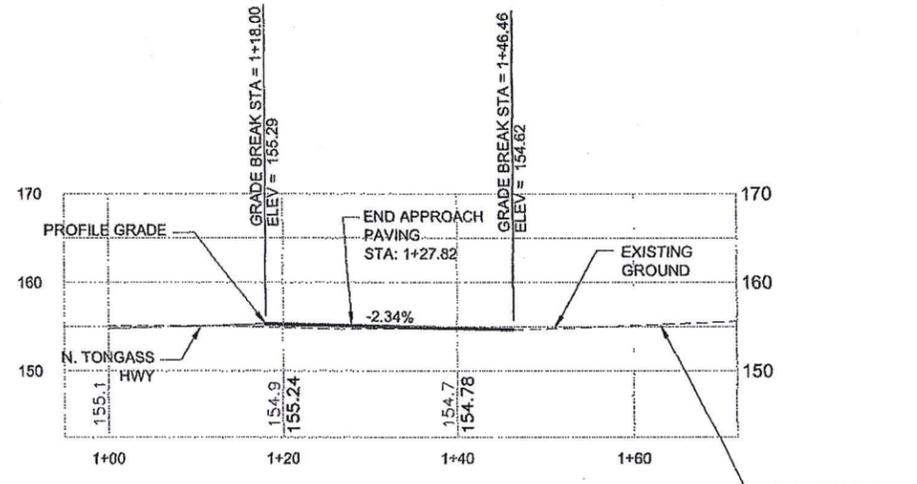
COASTAL TIRE CO.
 GGATS LLC
 N TONGASS HWY 7332



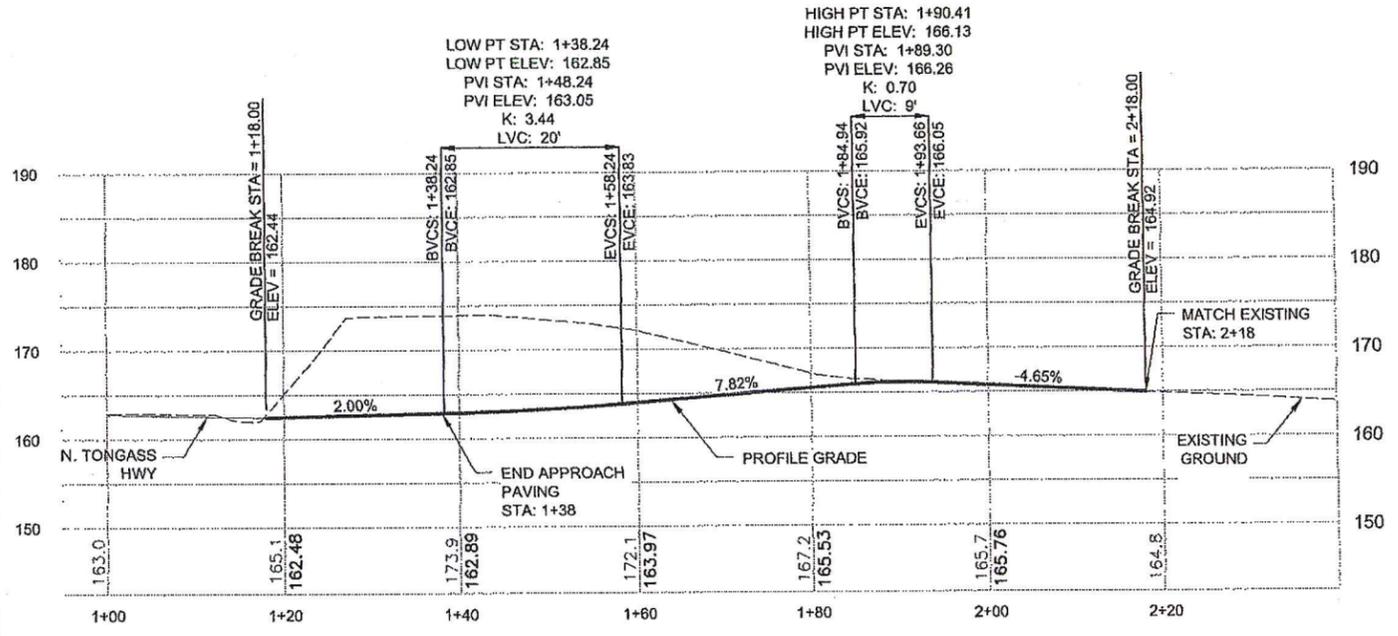
SCALE IN FEET
 0 10 20
 $\Delta = 56^{\circ}09'07''$
 $R = 31.00$
 $L = 30.38$
 $T = 16.54$

PLAN

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE *RJR* DATE 10/23/17



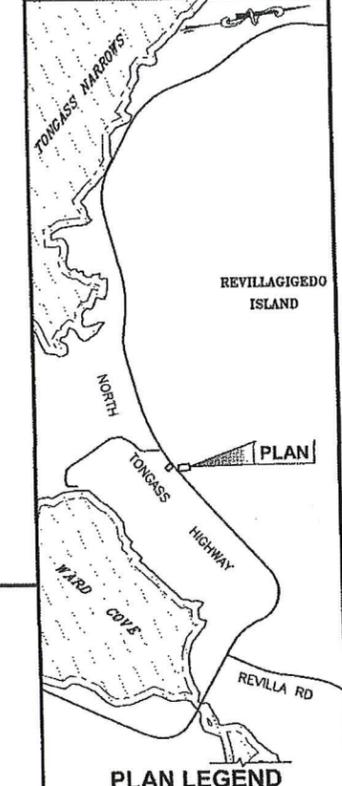
PROFILE
 DW 51+33 RT, KIAN ST.



PROFILE
 DW 56+61 LT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

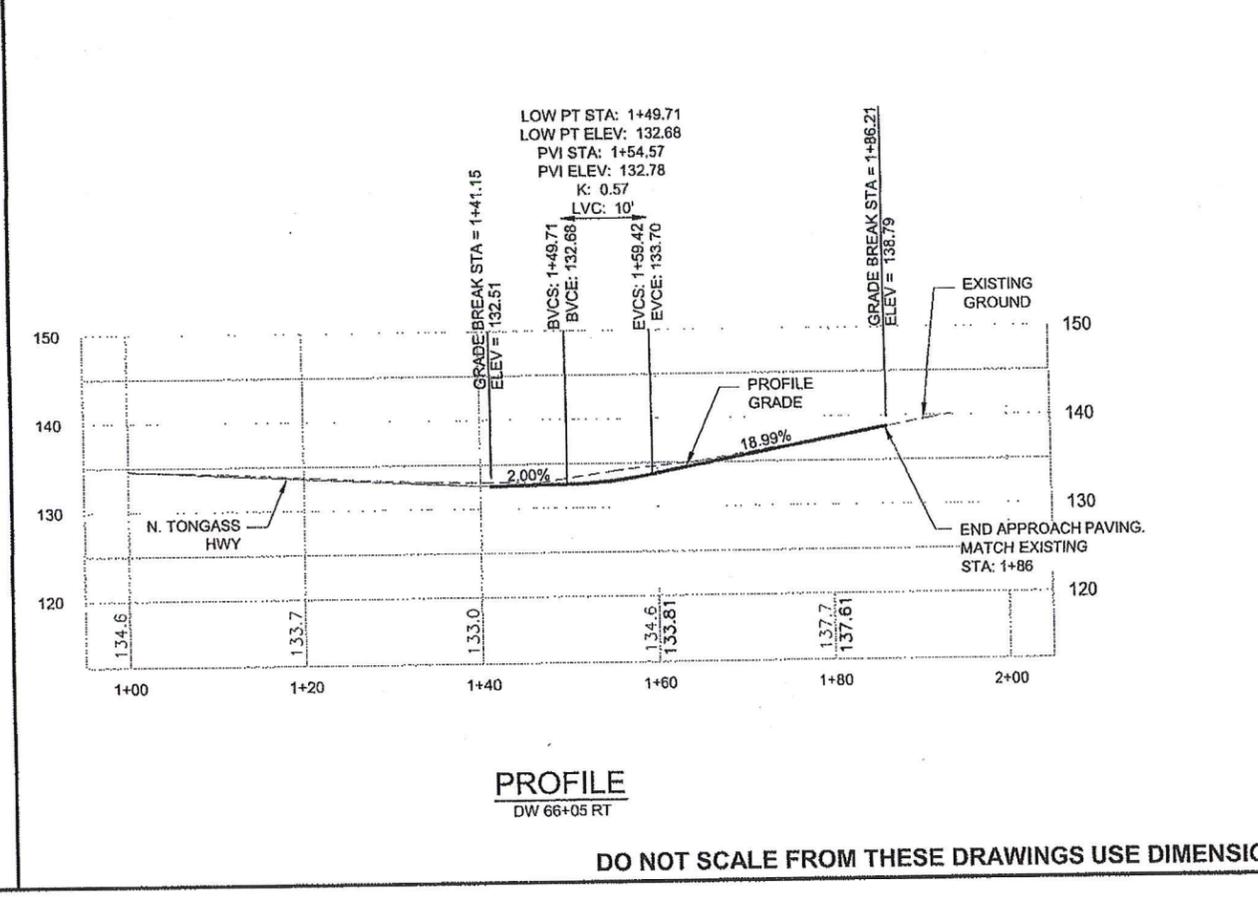
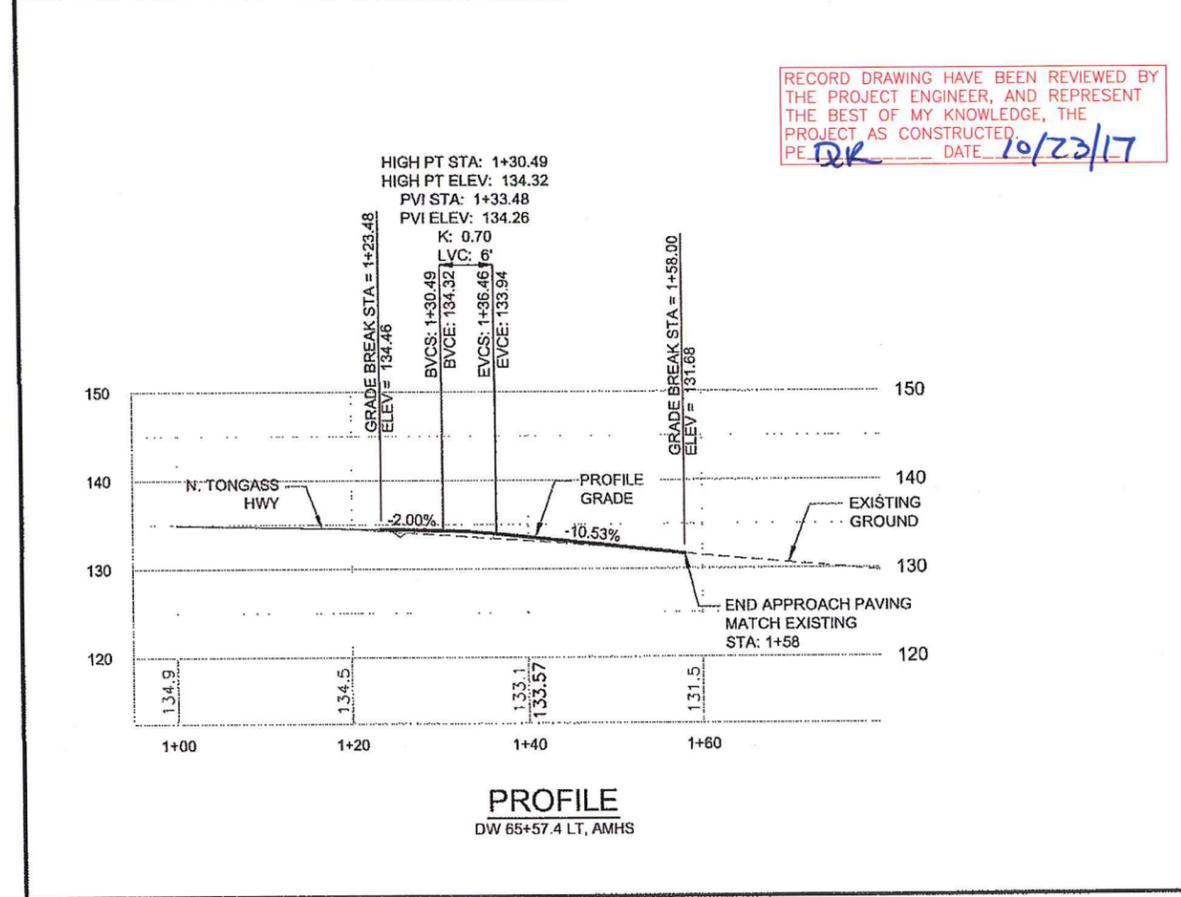
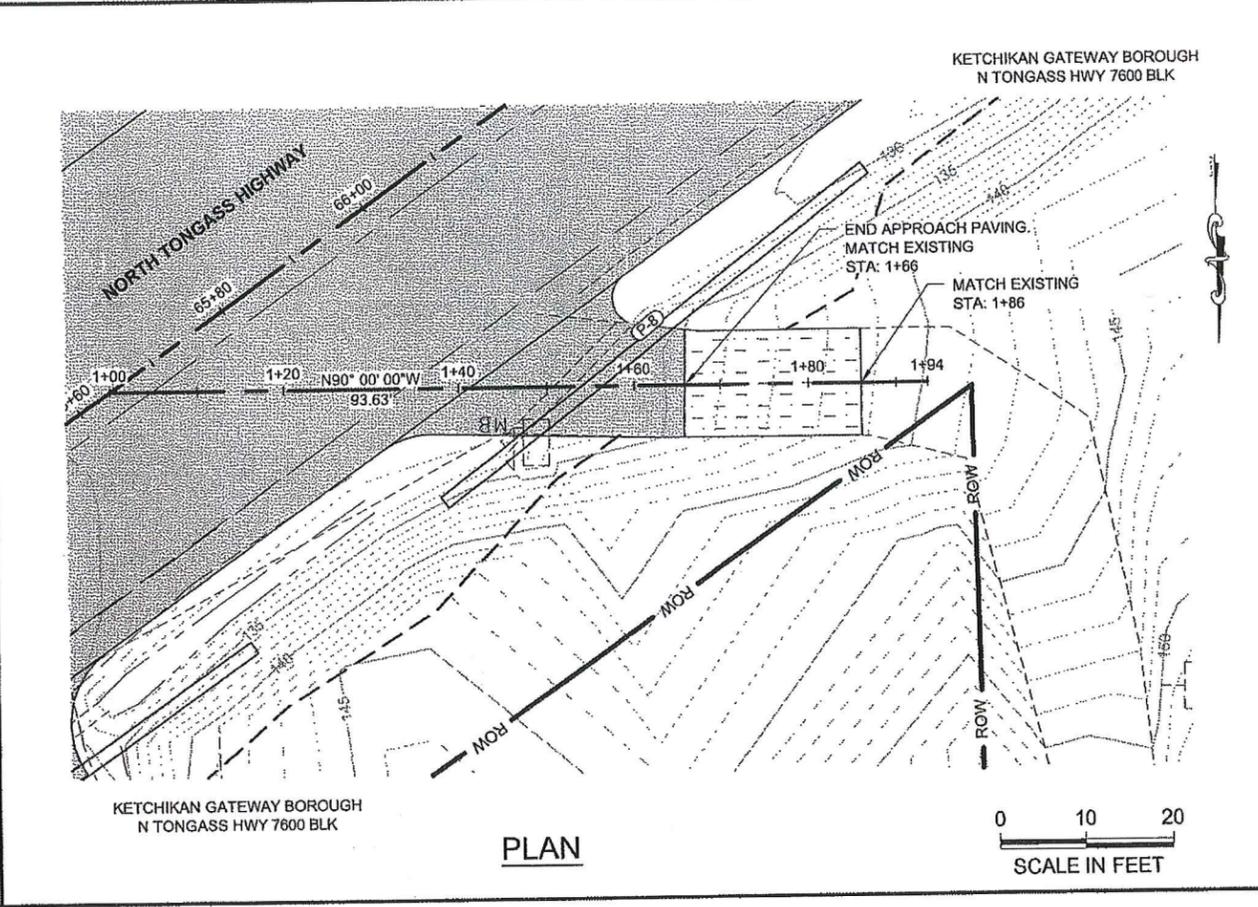
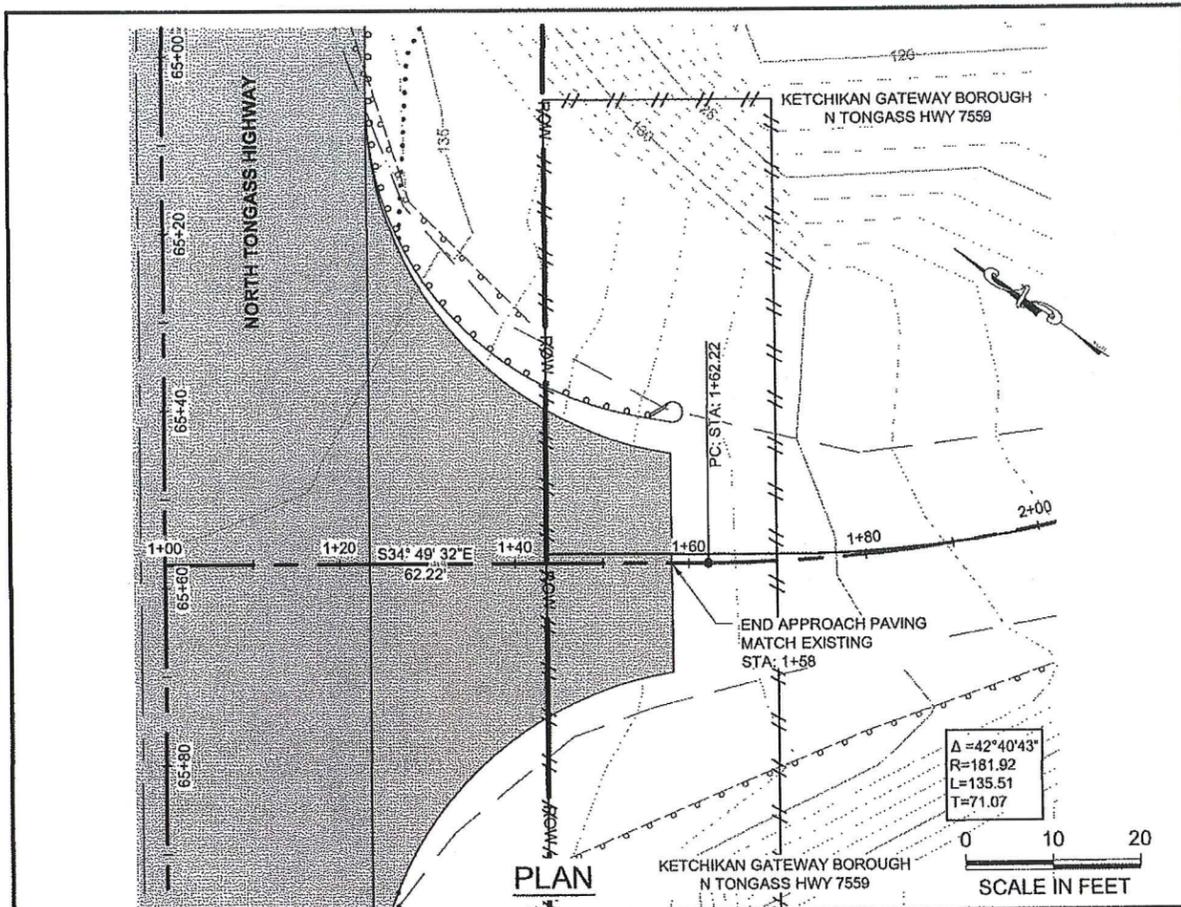
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 TAB: G4 Friday, January 11, 2013 11:29:54 AM
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS
 No. DATE DESCRIPTION



CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
 DRAWN BY: R. GRANHAM
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION
 KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973
**DRIVEWAY
 PLAN & PROFILE**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G4	100



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

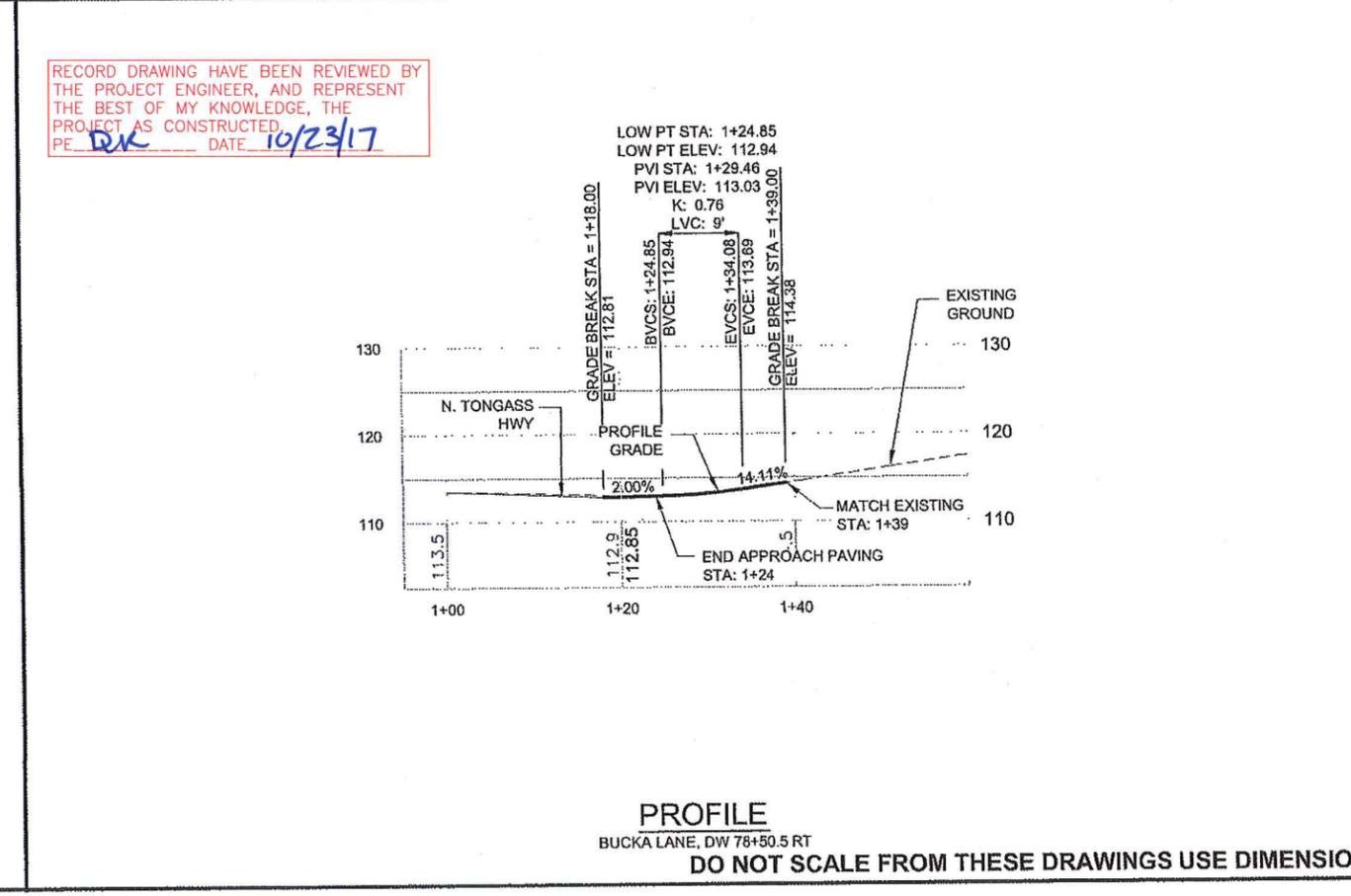
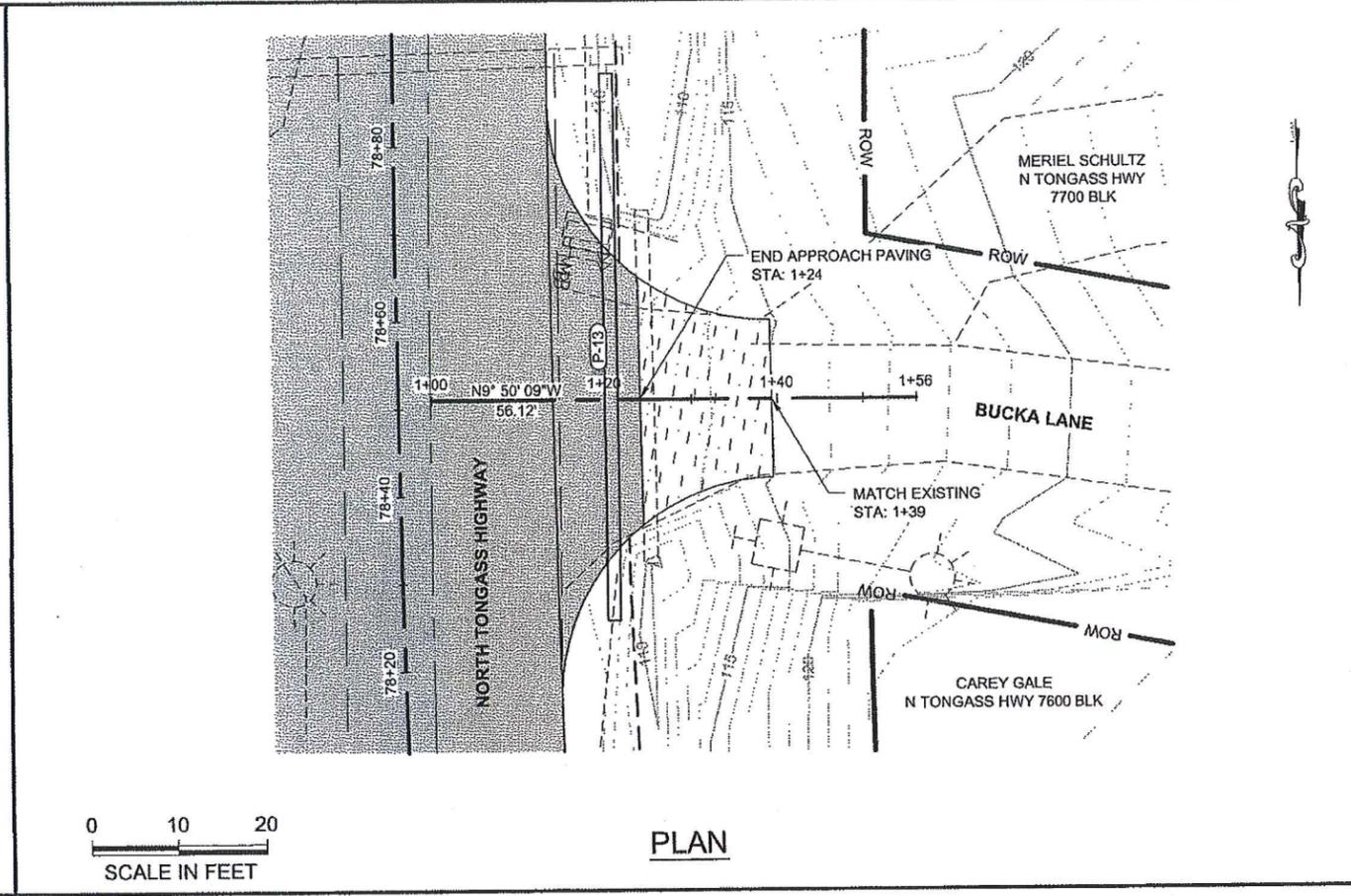
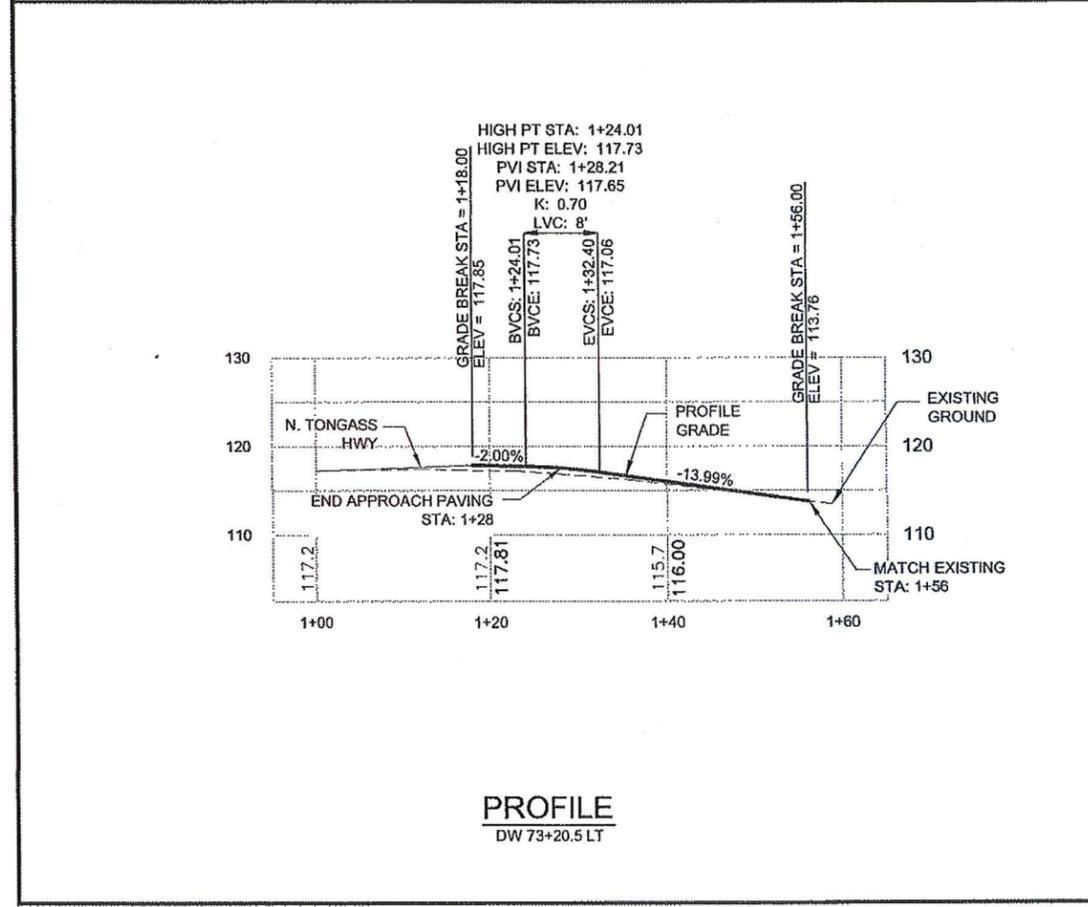
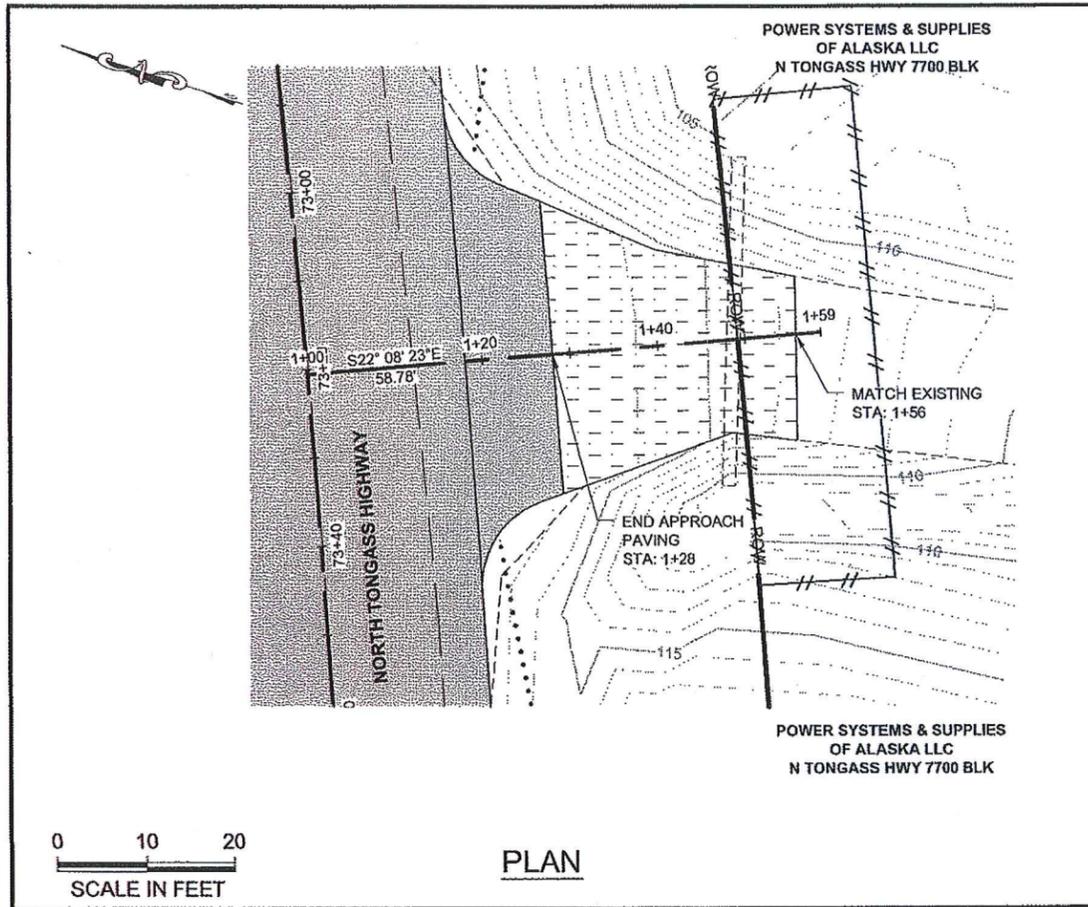
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 (UPDATE).DWG
 GRANHAM, RICK L (DOT)
 TAB: G5 Friday, January 11, 2013 11:30:06 AM
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS
 No. DATE DESCRIPTION



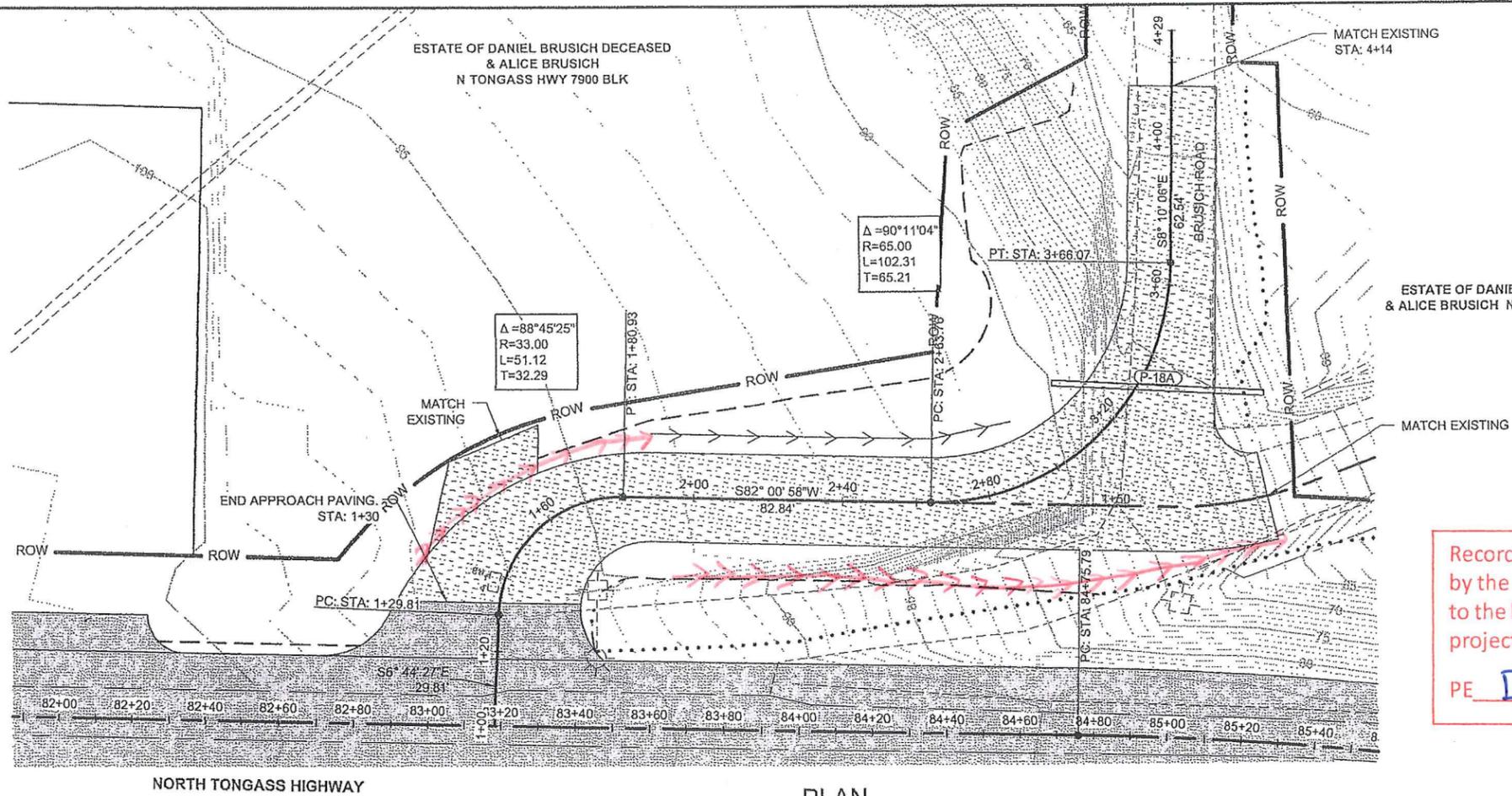
CHECKED BY: K. KARPSTEIN

 DESIGNED BY: N. GEARY
 DRAWN BY: R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION
 KTN - NORTH TONGASS HWY:
 WARD TO REFUGUE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973
**DRIVEWAY
 PLAN & PROFILE**
 PROJECT DESIGNATION
68973
 STATE ALASKA
 YEAR 2013
 SHEET NUMBER G5 TOTAL SHEETS 100



RECORD DRAWING HAVE BEEN REVIEWED BY
 THE PROJECT ENGINEER, AND REPRESENT
 THE BEST OF MY KNOWLEDGE, THE
 PROJECT AS CONSTRUCTED.
 PE RK DATE 10/23/17



PLAN

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE DR Date 10/23/17

PATH:
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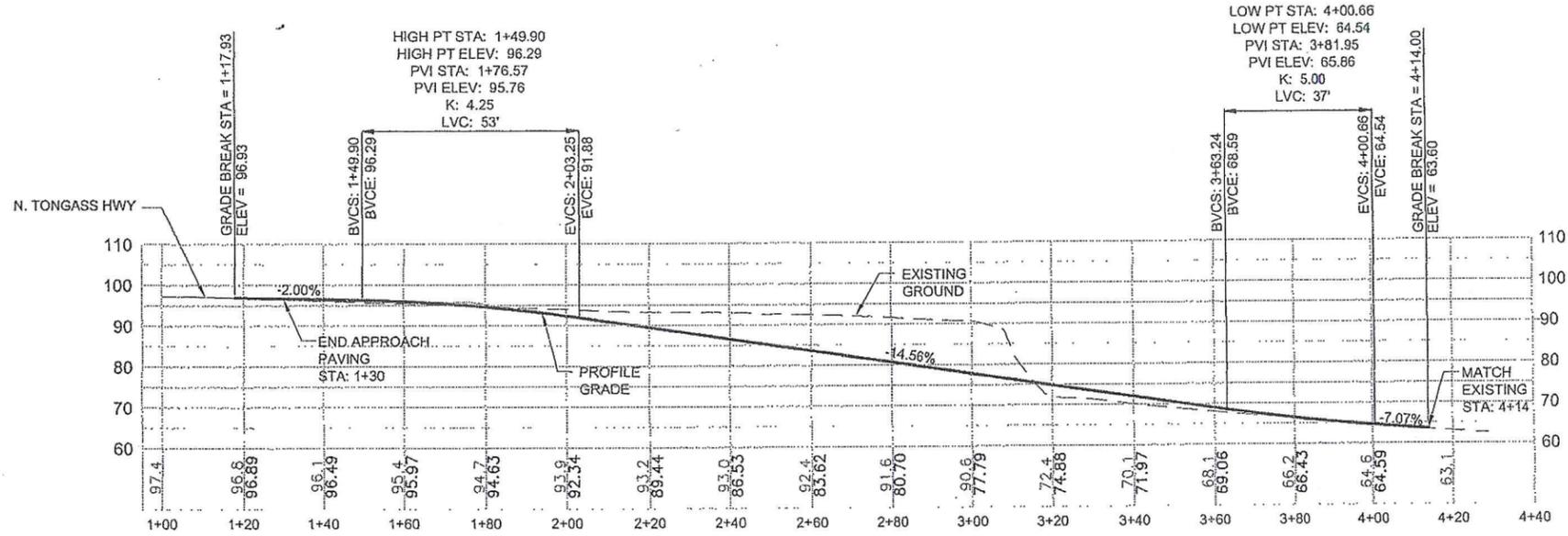
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND



PROFILE
 DW 83+17 LT, BRUSICH MARINA

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CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
 DRAWN BY: R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

**DRIVEWAY
 PLAN & PROFILE**

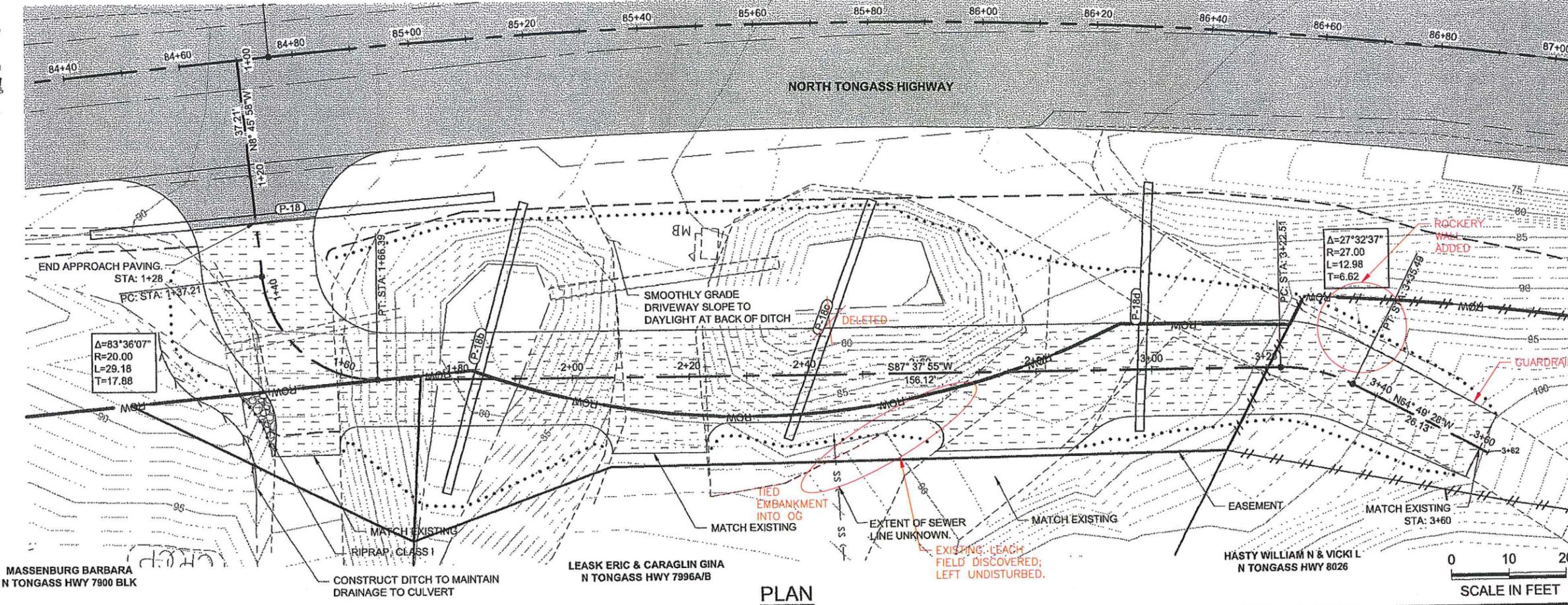
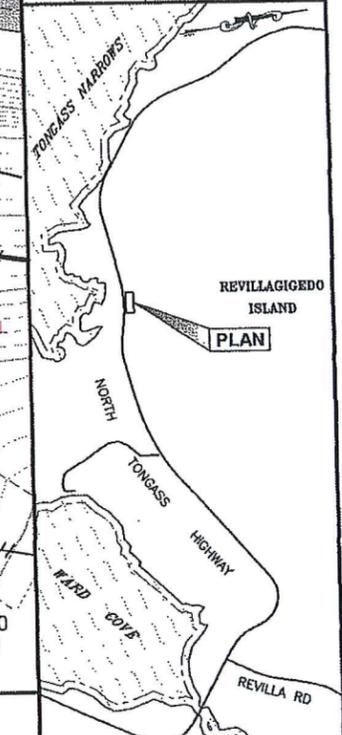
PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013

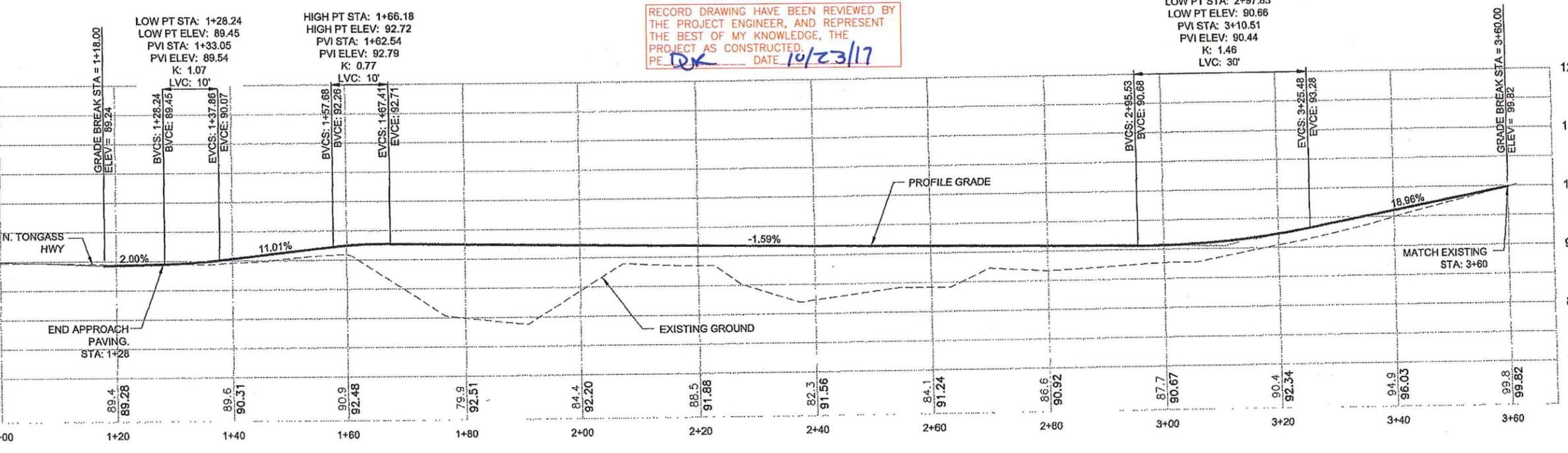
SHEET NUMBER	TOTAL SHEETS
G6	100

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(UPDATE).DWG
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TAB: G7 Tuesday, January 29, 2013 9:14:10 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN



PROFILE
DW 84+70 RT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE *RJK* DATE 1/23/13

PLAN LEGEND

CHECKED BY: K. KARPSTEIN

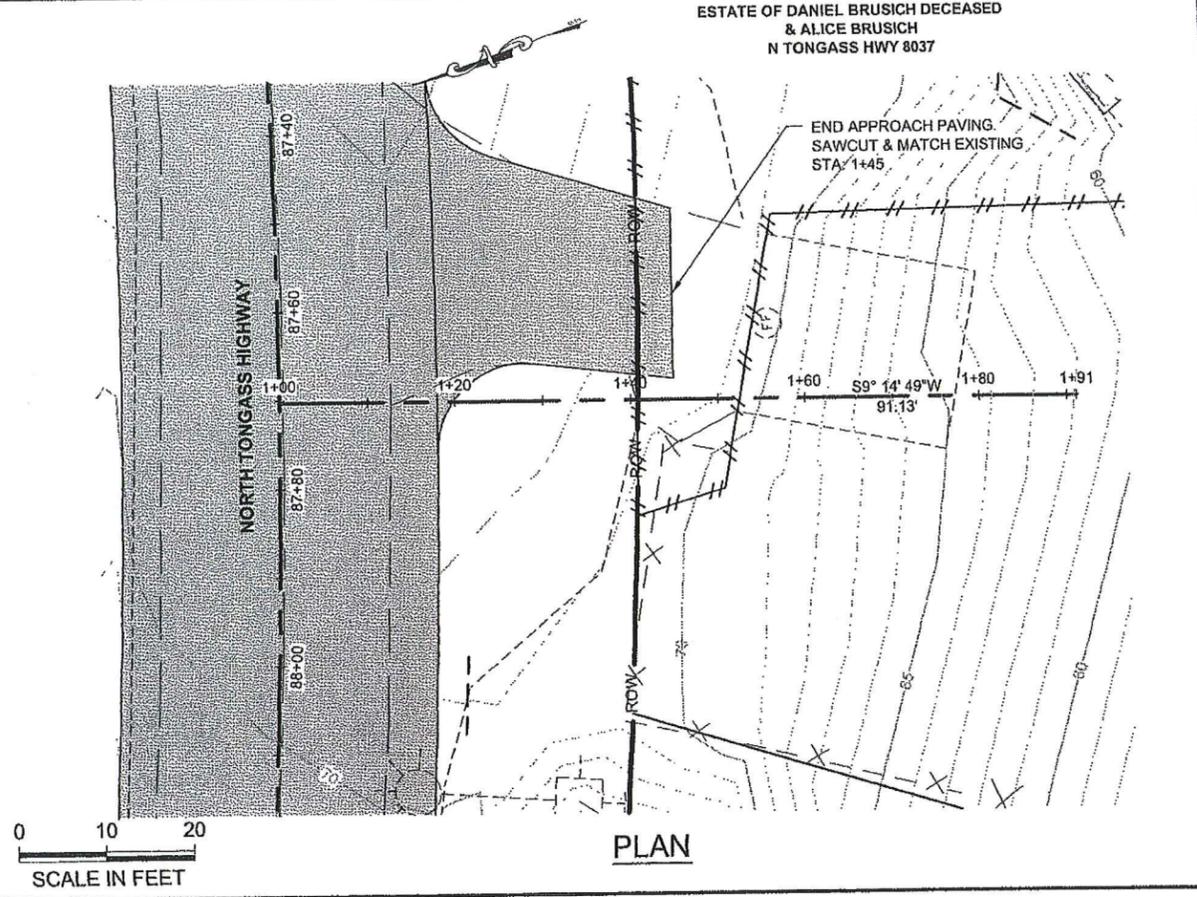
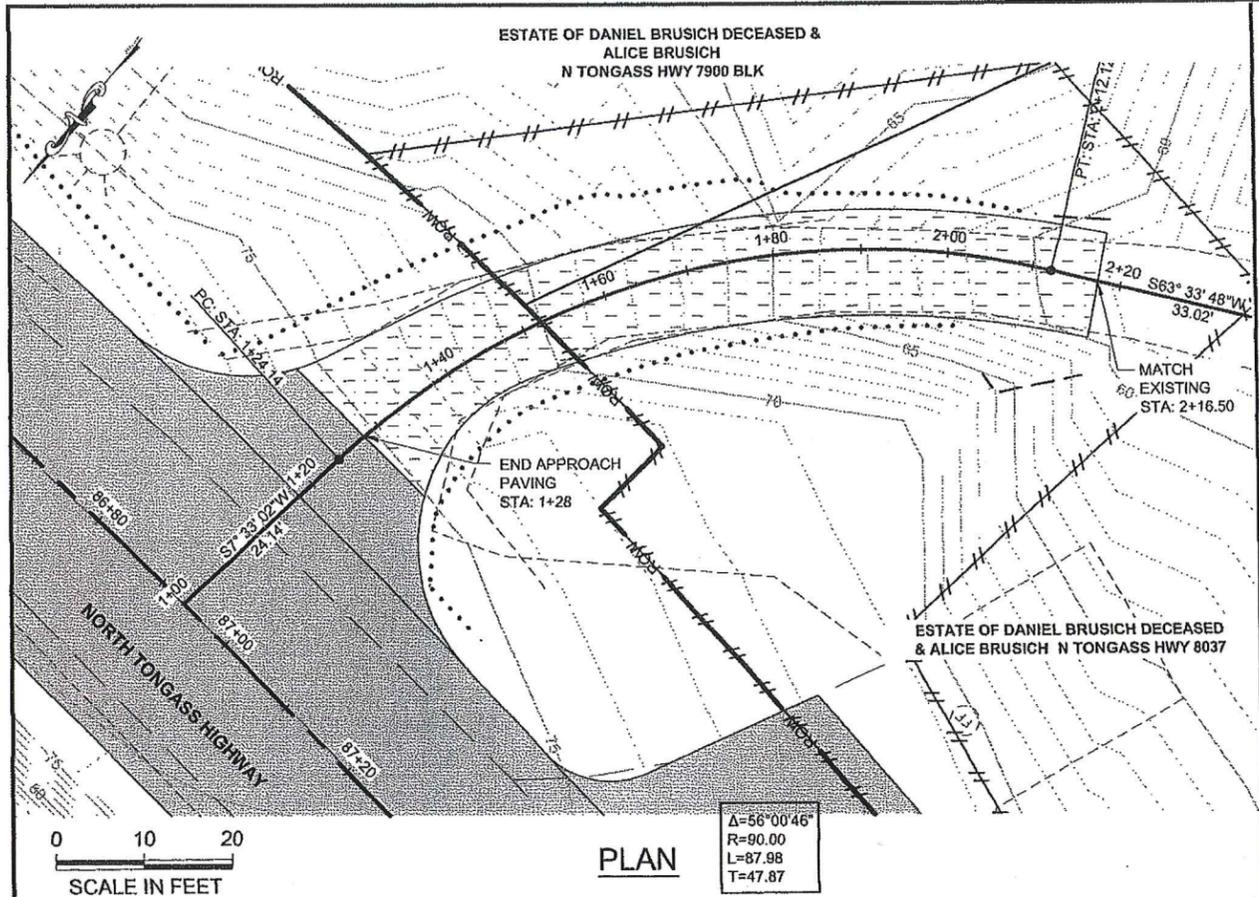
DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

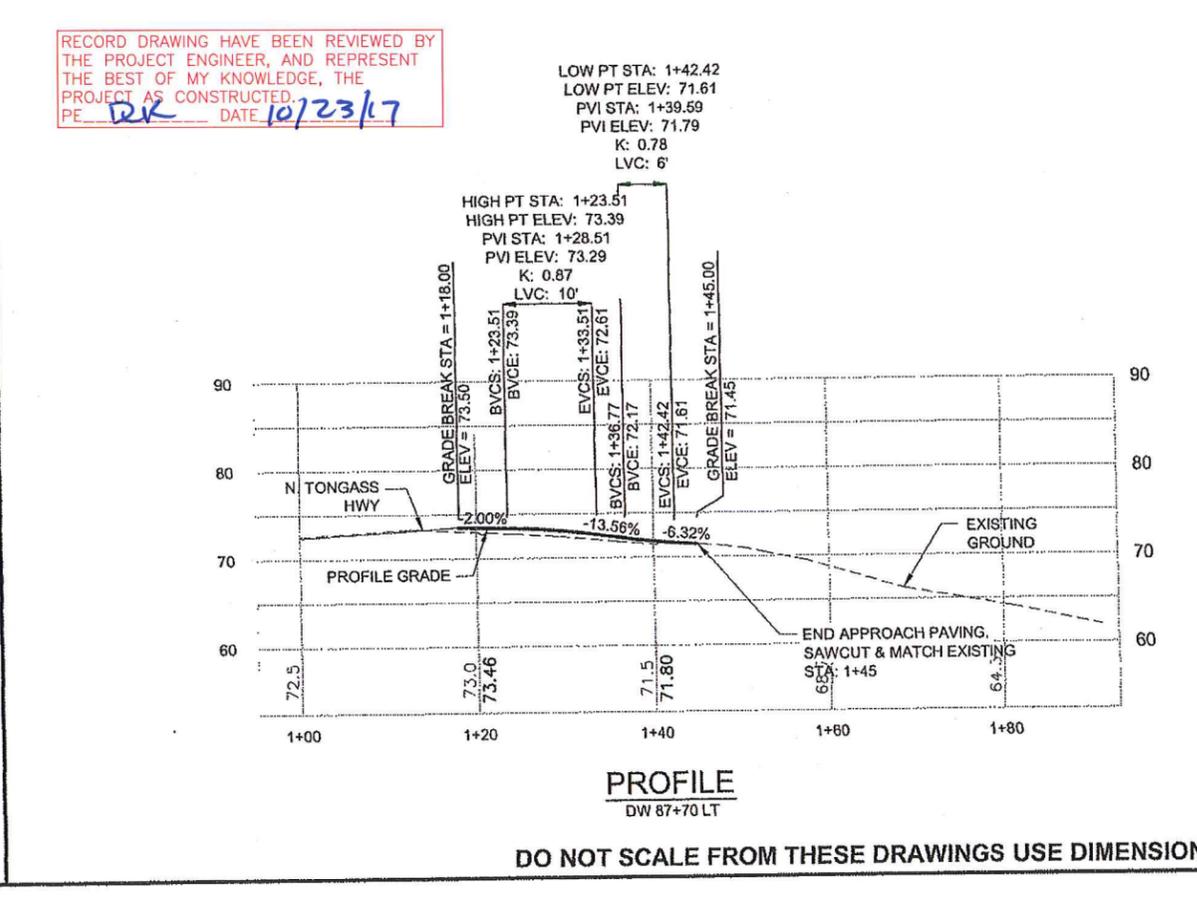
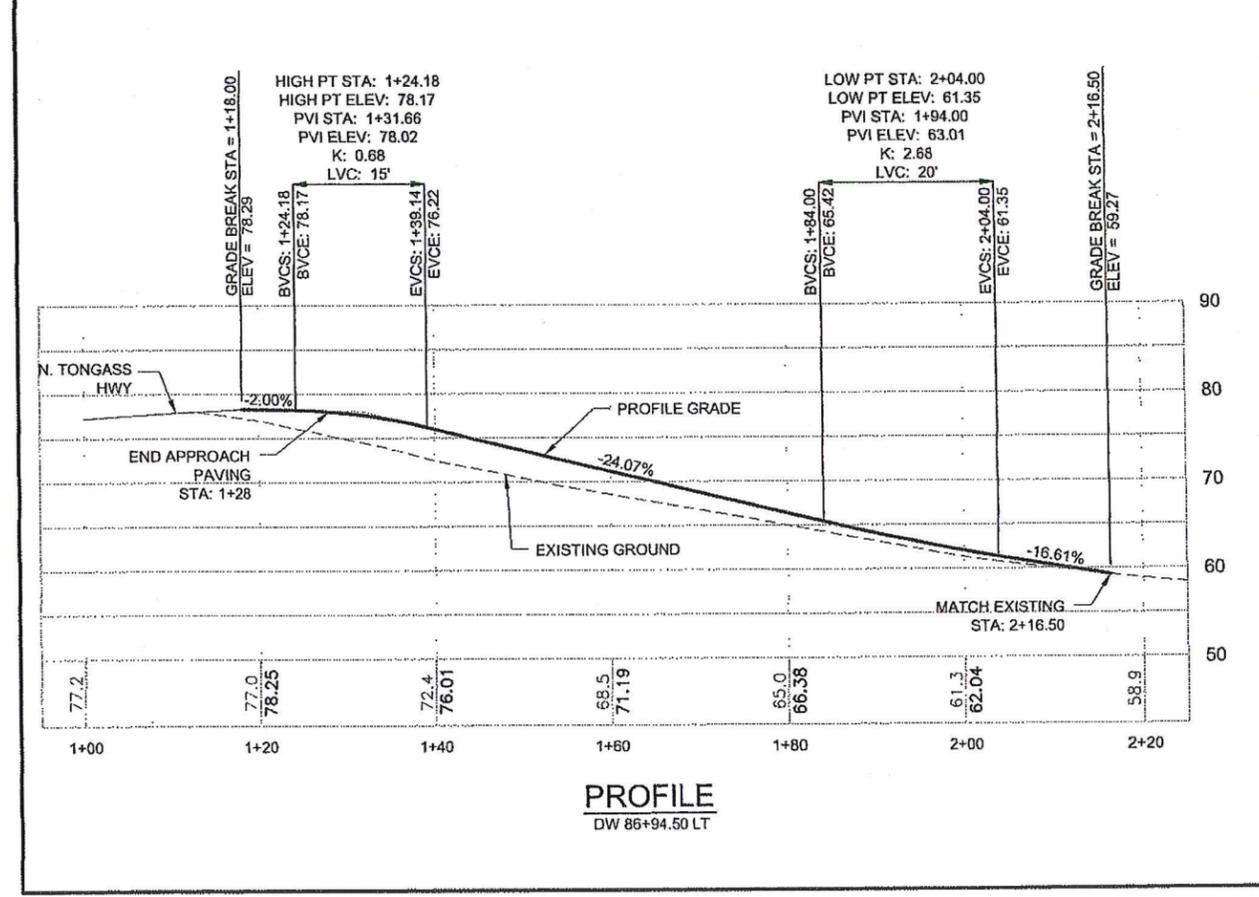
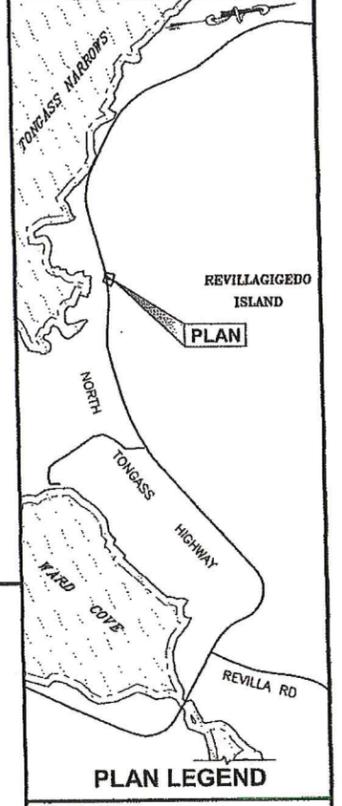
**DRIVEWAY
PLAN & PROFILE**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G7	100



PATH:
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(UPDATE).DWG
GRANTHAM, RICK L (DOT)
TAB: G8 Friday, January 11, 2013 11:30:33 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE RK DATE 10/23/17

CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

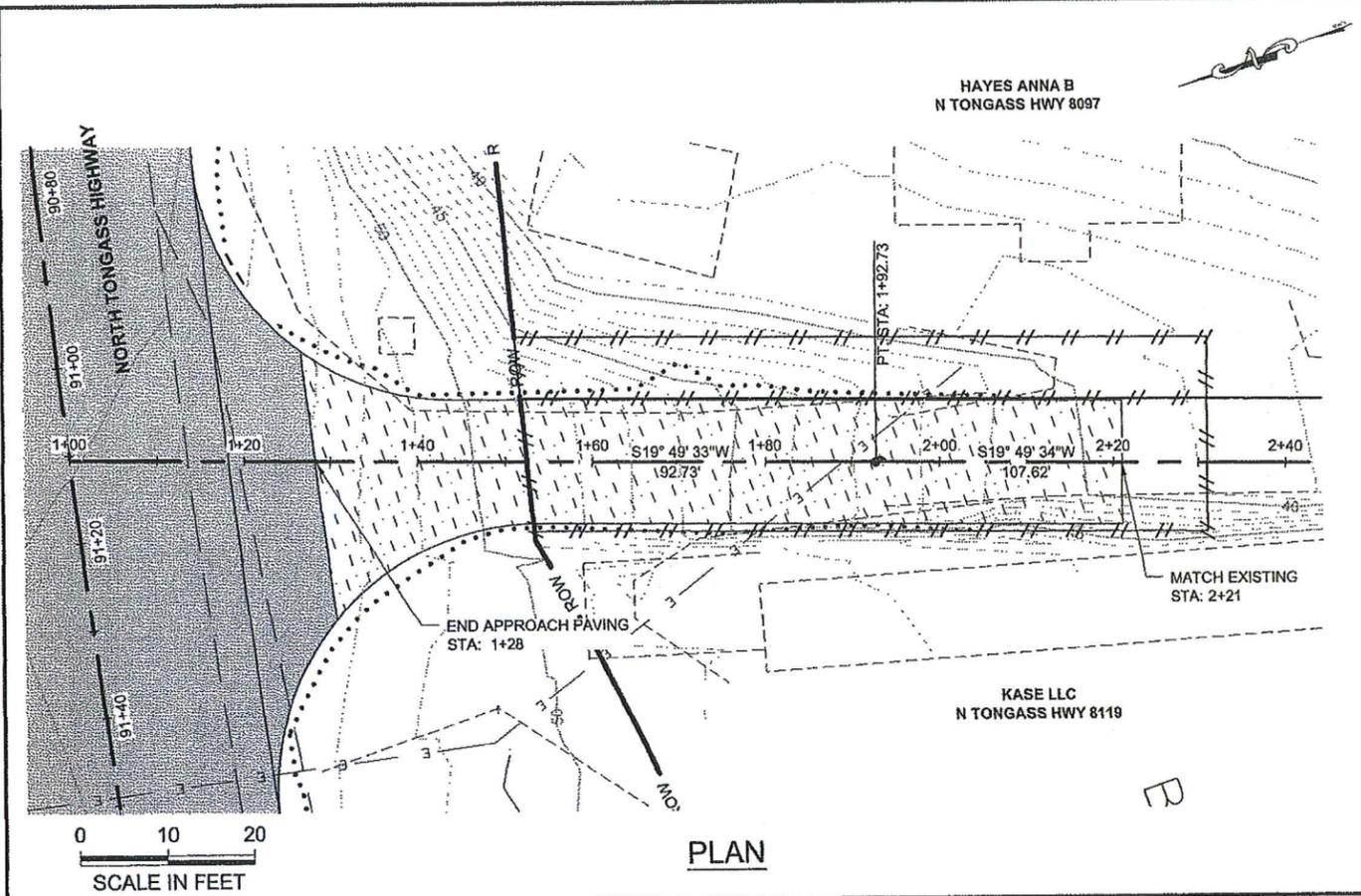
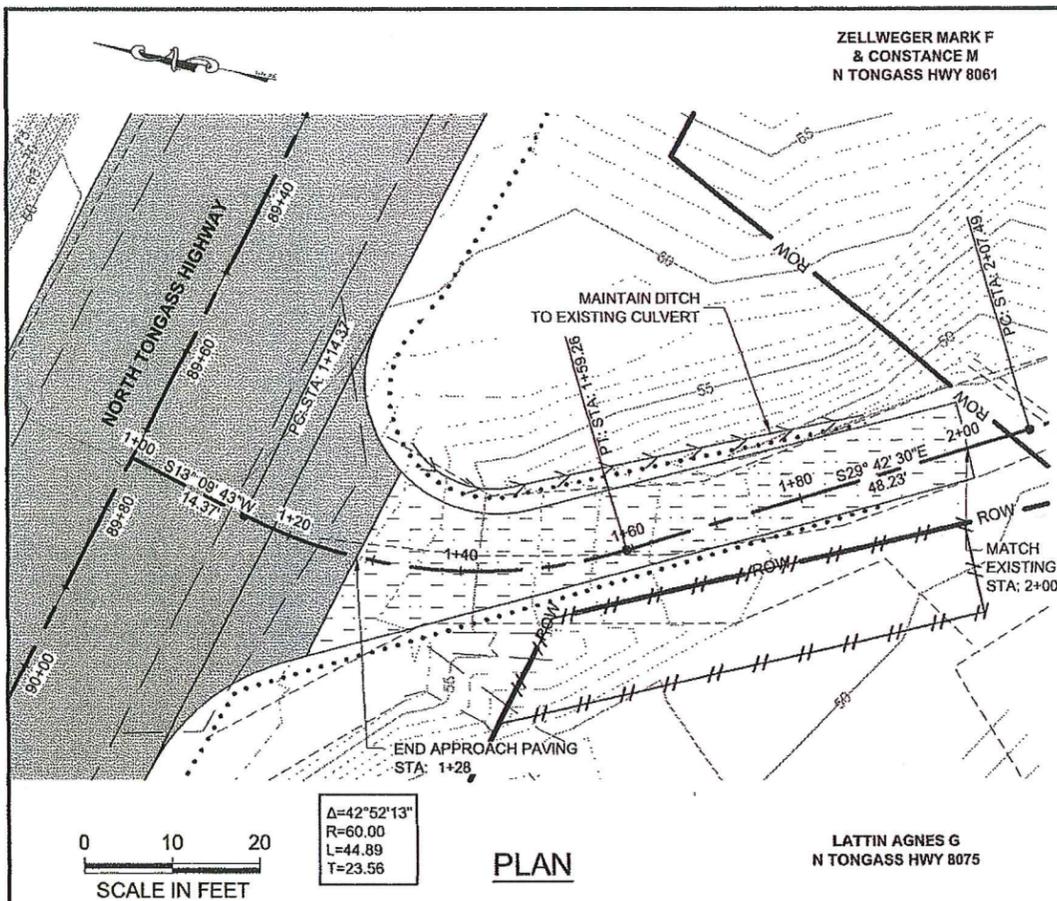
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

**DRIVEWAY
PLAN & PROFILE**

PROJECT DESIGNATION
68973

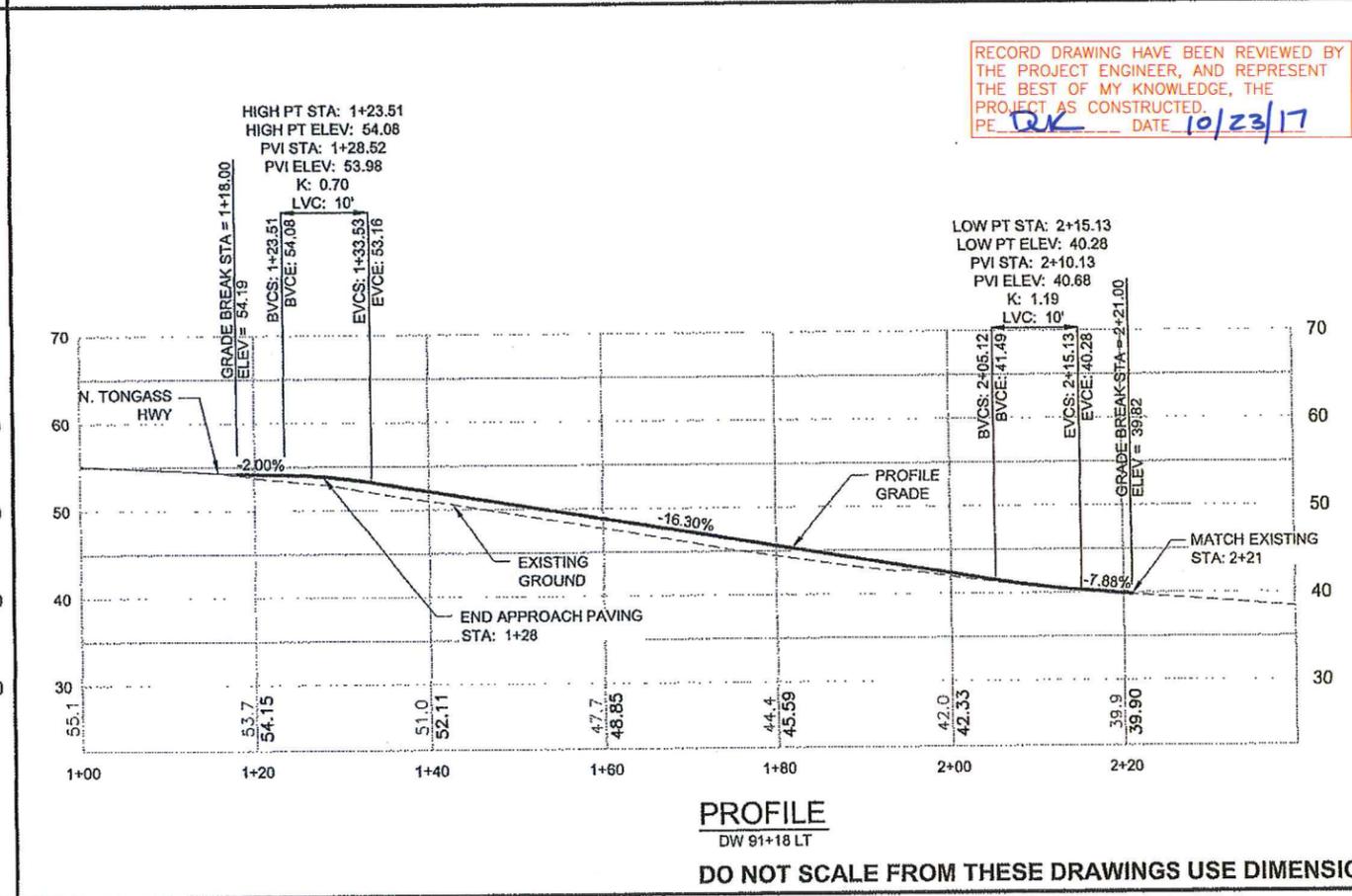
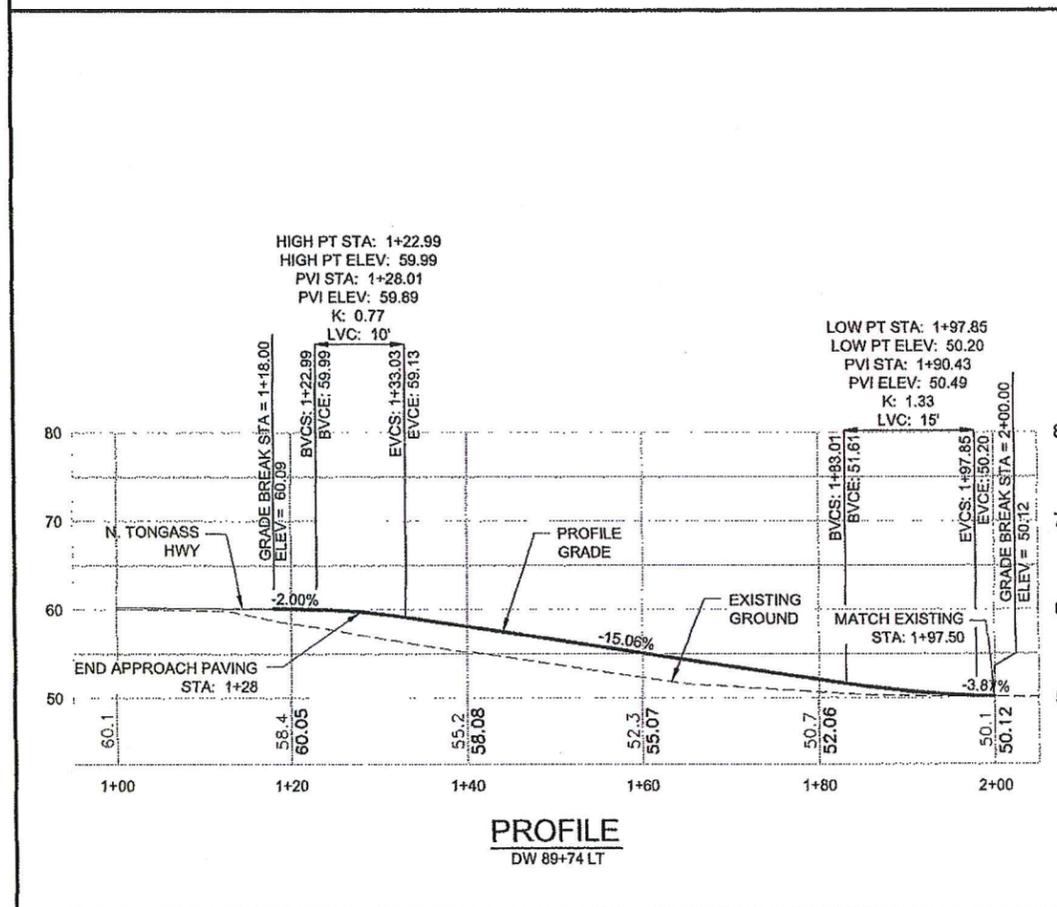
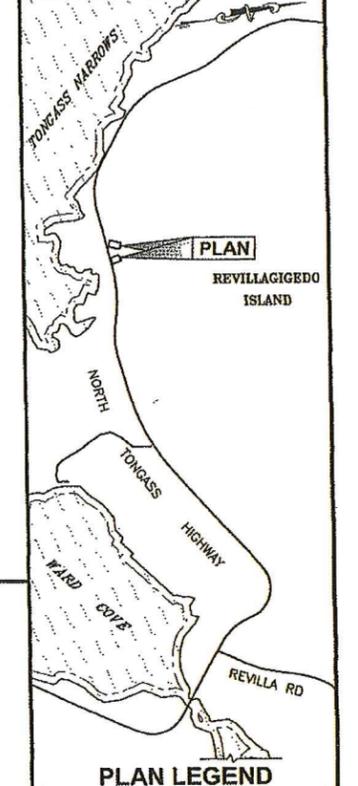
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G8	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH:
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(UPDATE).DWG
GRANTHAM, RICK L (DOT)
TAB: G9 Tuesday, January 29, 2013 9:16:02 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE DJK DATE 10/23/17

CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGUE COVE
PAVEMENT REHABILITATION
PROJECT #68973

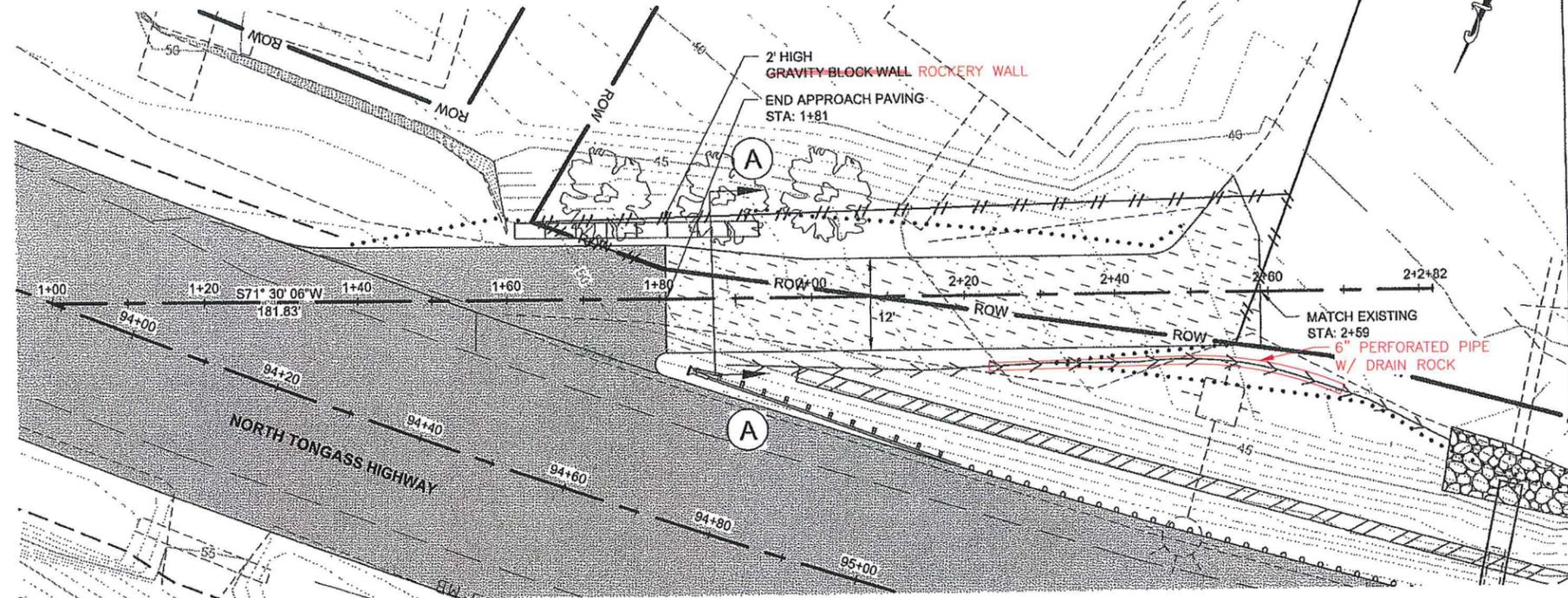
**DRIVEWAY
PLAN & PROFILE**

PROJECT DESIGNATION
68973

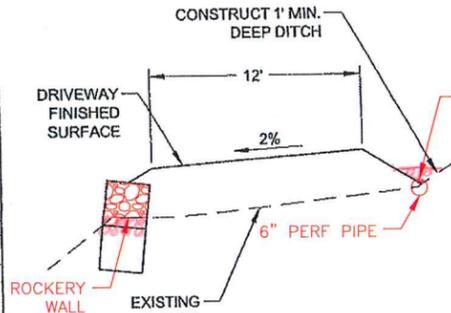
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G9	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

HAMLIN EDWARD D
& ROSANNA M
N TONGASS HWY 8177



PLAN

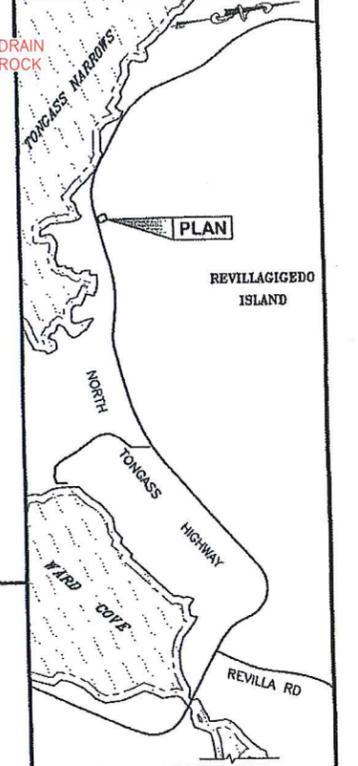


DRIVEWAY SECTION A-A

NOTE: CONSTRUCT 1.5:1 DRIVEWAY FORESLOPES.
TAPER DRIVEWAY WIDTH TO 12' AFTER
PAVED APRON.

PATH:
Q:\KTN\68973\PLANSET\68973_G1-17_DRIVEWAYS
(UPDATE).DWG
GRANTHAM, RICK L (DOT)
TAB: G10 Tuesday, January 29, 2013 8:07:24 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN



DESIGNED BY: N. GEARY

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

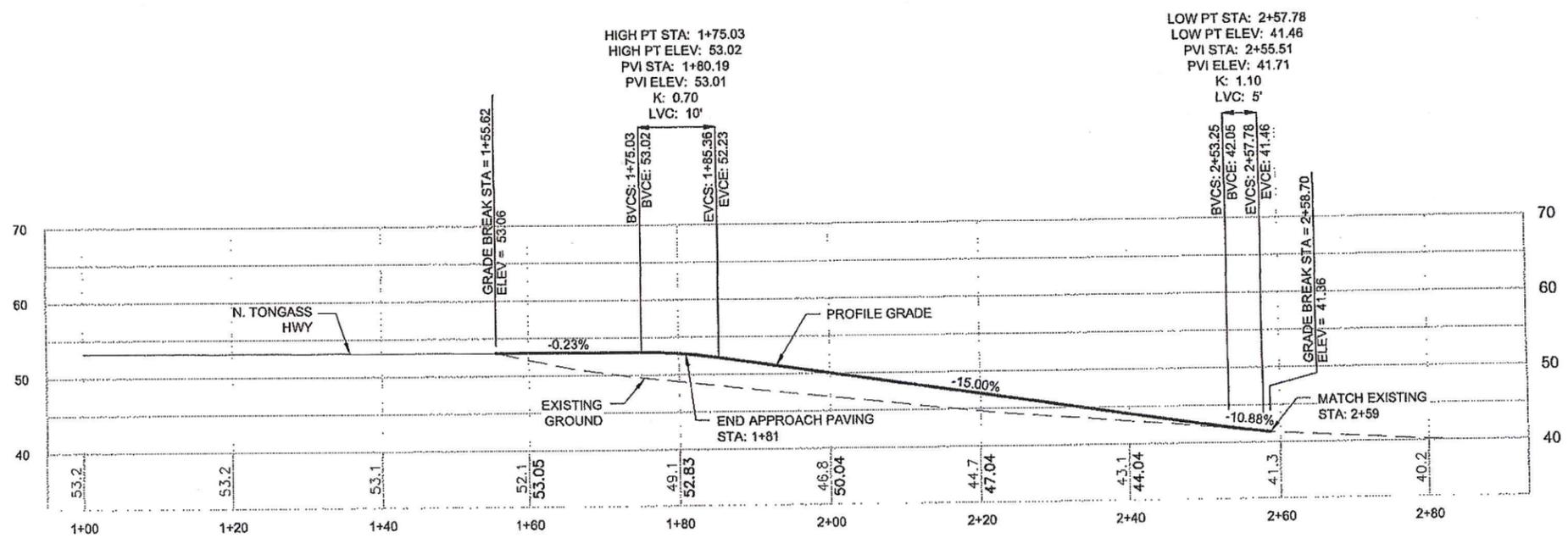
**DRIVEWAY
PLAN & PROFILE**

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013

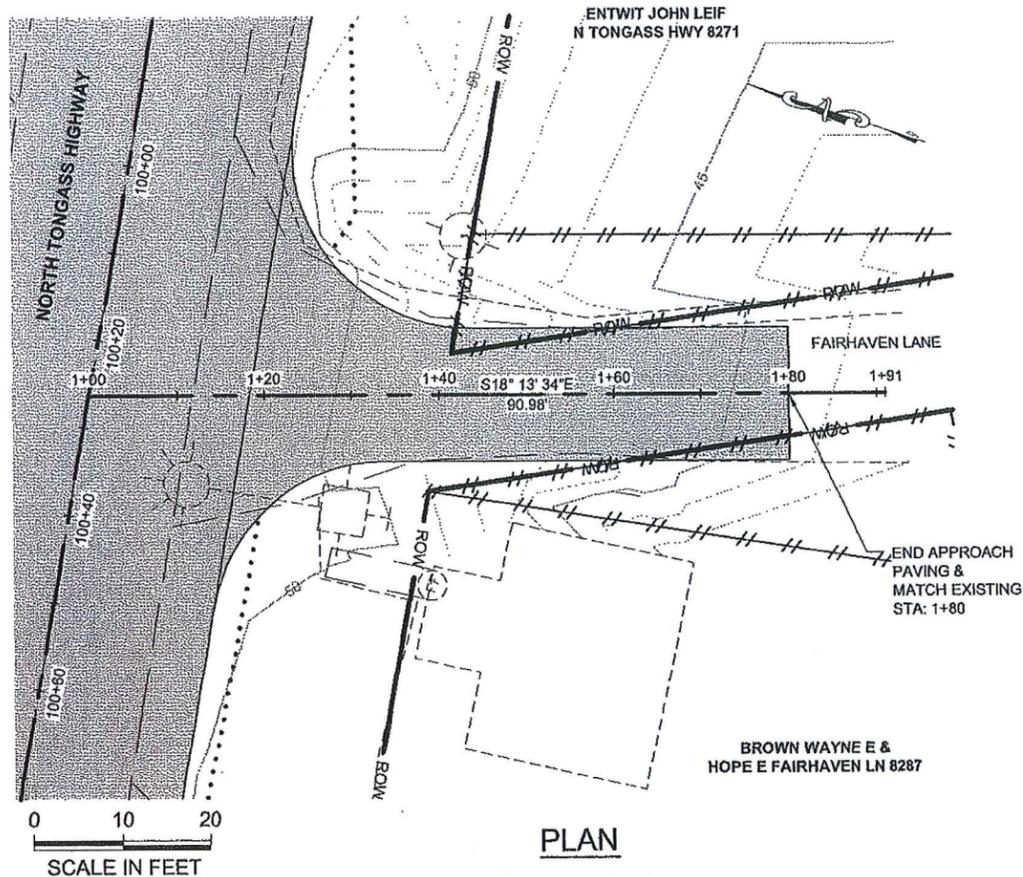
SHEET NUMBER	TOTAL SHEETS
G10	100



PROFILE
DW 94+44 LT

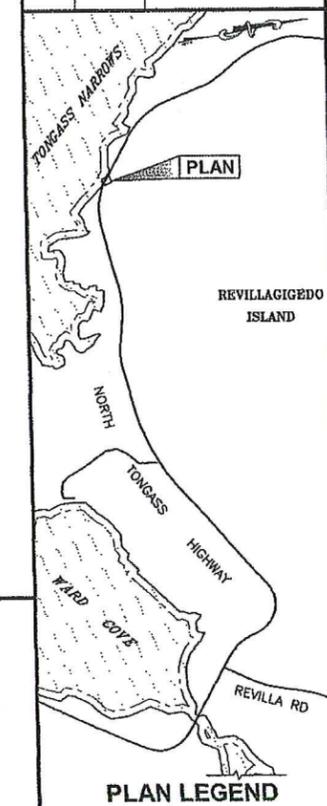
RECORD DRAWING HAVE BEEN REVIEWED BY
THE PROJECT ENGINEER, AND REPRESENT
THE BEST OF MY KNOWLEDGE, THE
PROJECT AS CONSTRUCTED.
PE: RJK DATE: 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

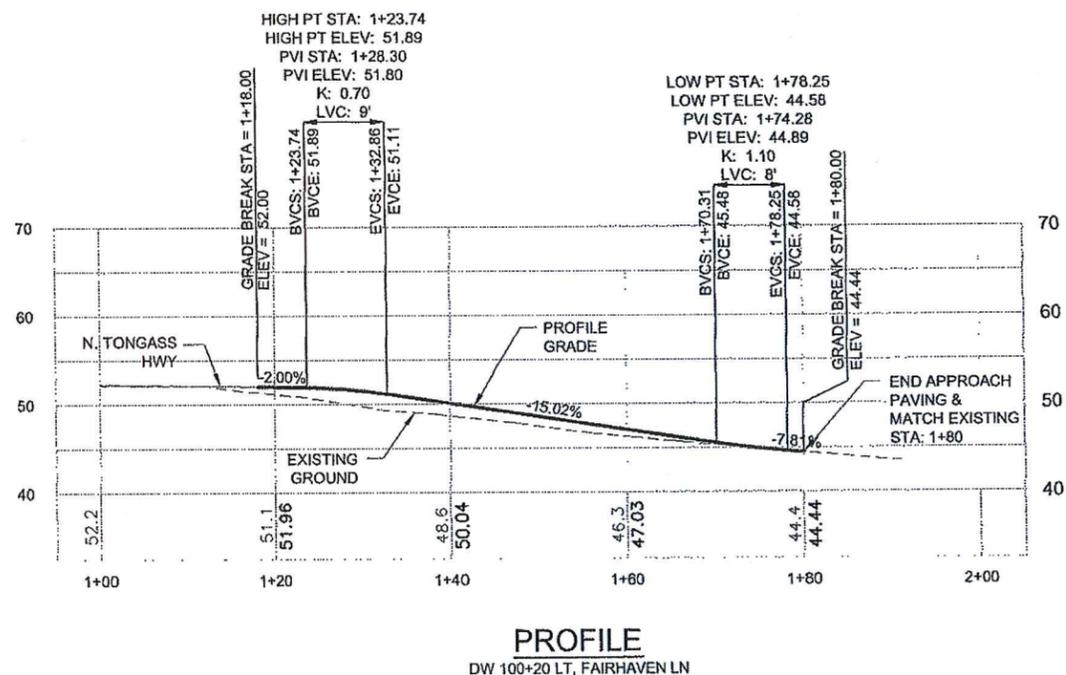


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(UPDATE).DWG
GRANTHAM, RICK L (DOT)
TAB: G11 Friday, January 11, 2013 11:31:00 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



RECORD DRAWING HAVE BEEN REVIEWED BY
THE PROJECT ENGINEER, AND REPRESENT
THE BEST OF MY KNOWLEDGE, THE
PROJECT AS CONSTRUCTED.
PE DK DATE 10/23/17



CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

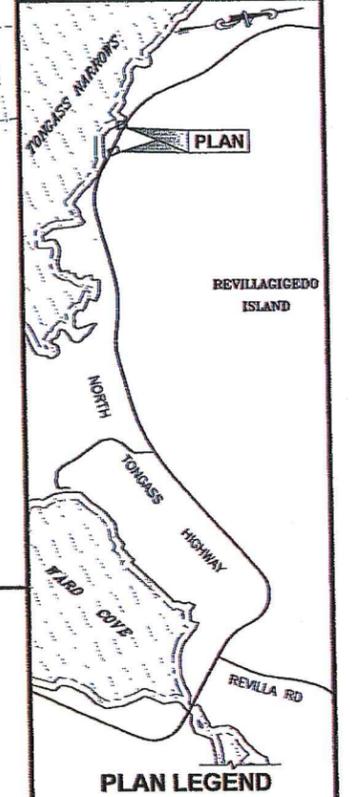
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

**DRIVEWAY
PLAN & PROFILE**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G11	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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 TAB: G12 Tuesday, January 29, 2013 9:23:35 AM
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 RECORD OF REVISIONS
 No. DATE DESCRIPTION

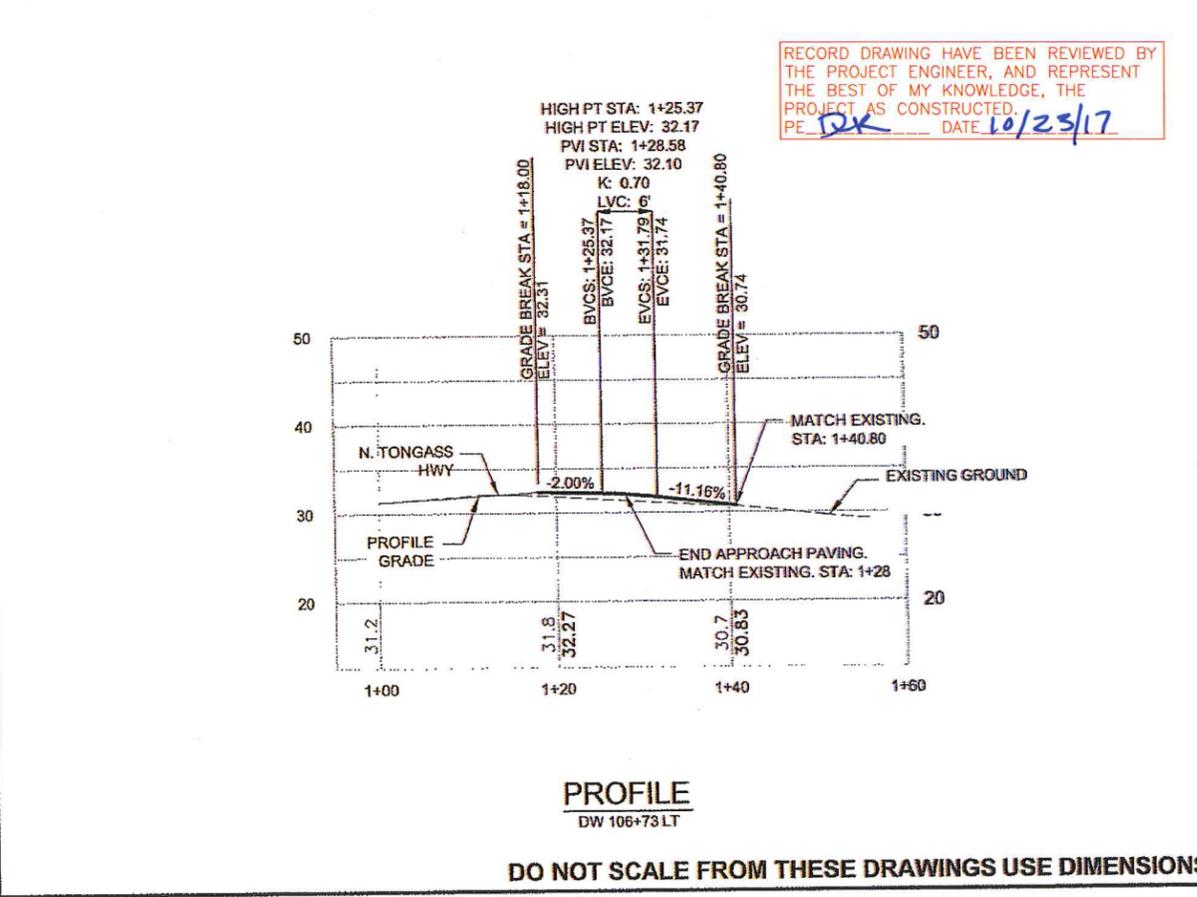
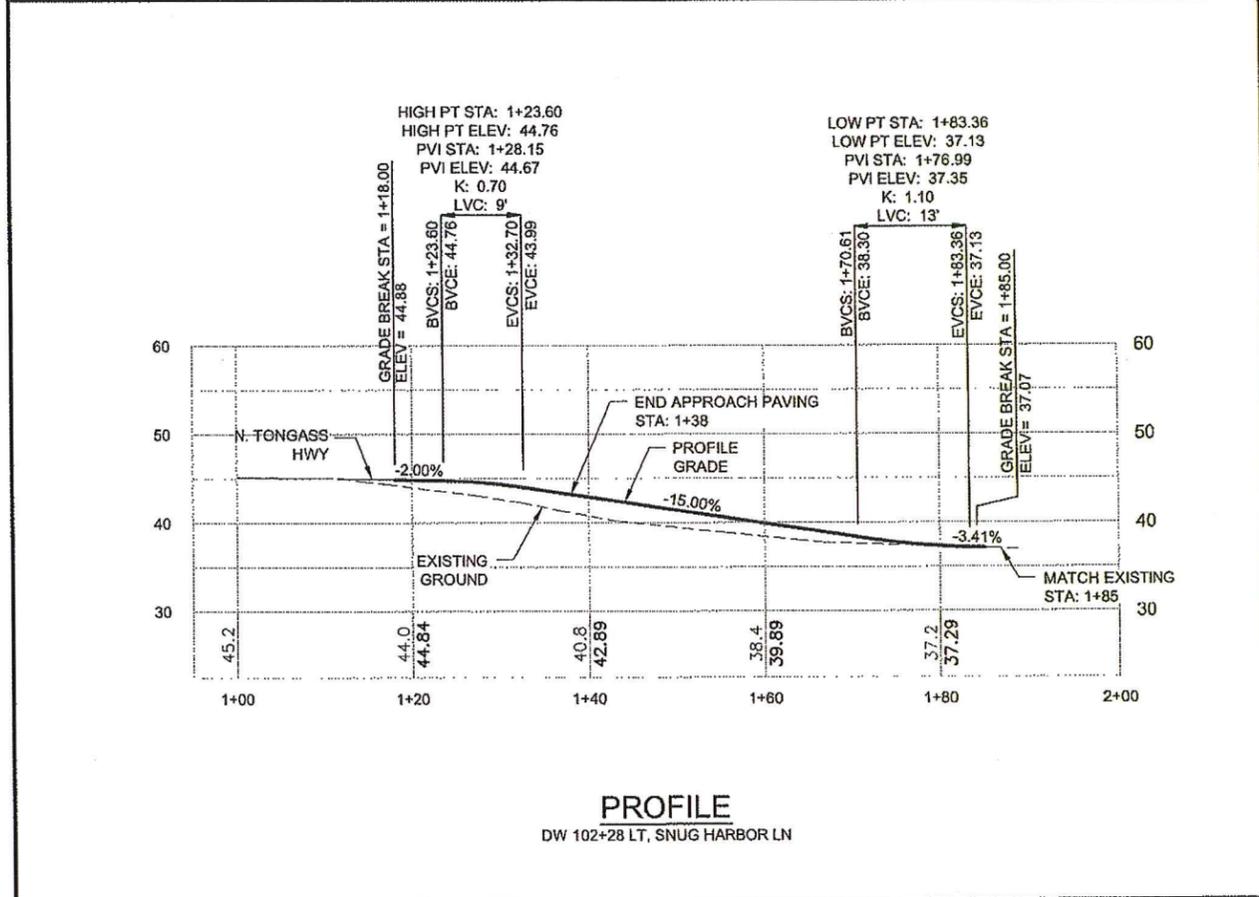
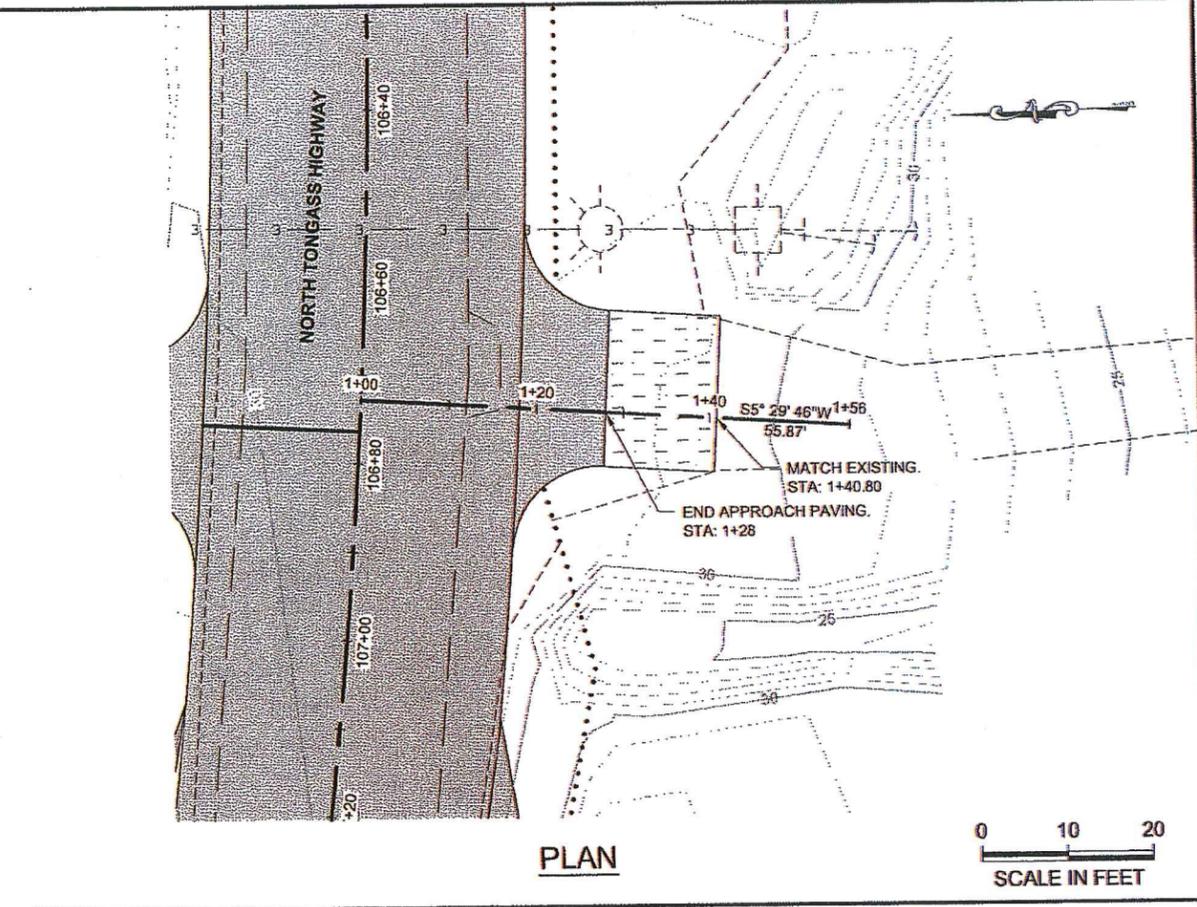
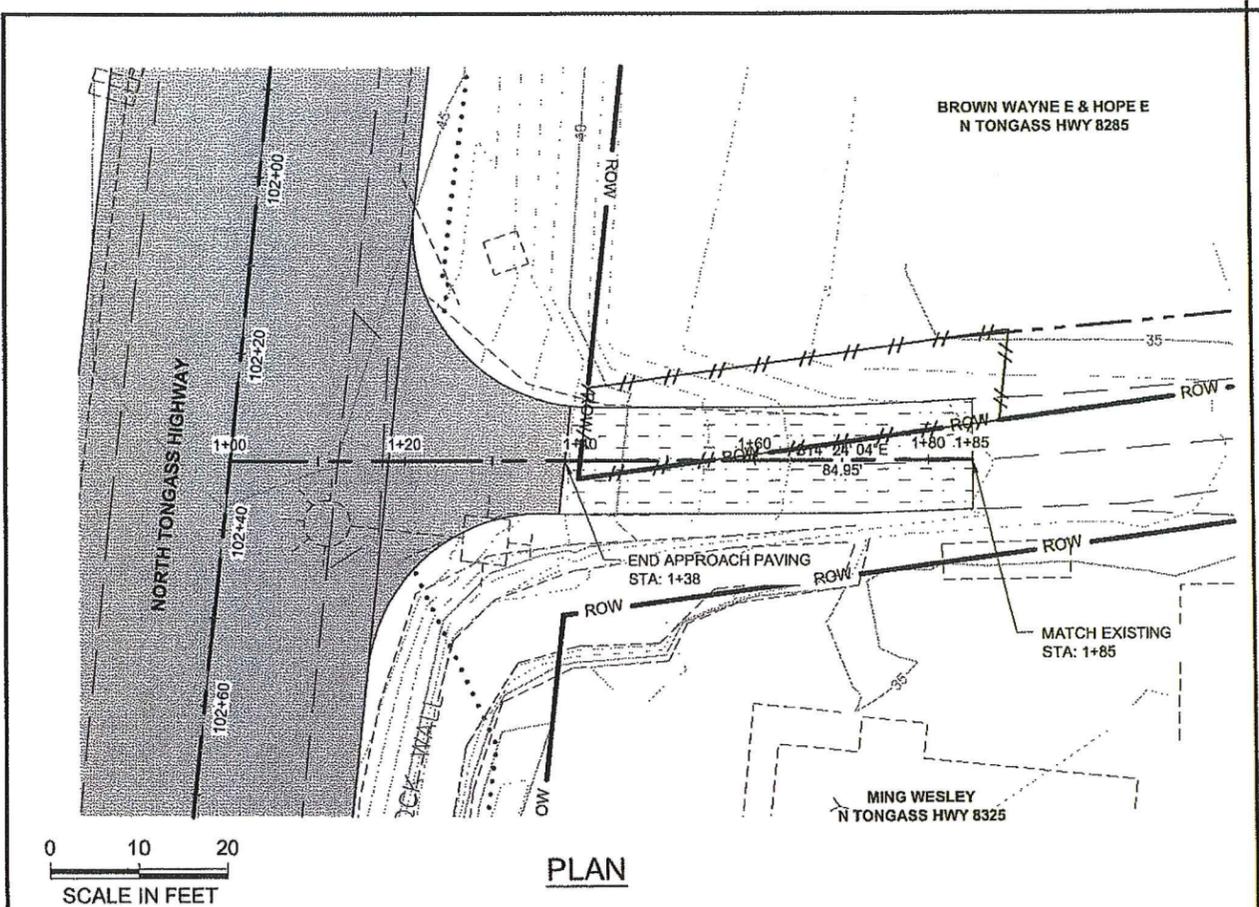


CHECKED BY: R. KARPSTEIN

 DESIGNED BY: N. GEARY
 DRAWN BY: R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION
**KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973**
**DRIVEWAY
 PLAN & PROFILE**
 PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G12	100

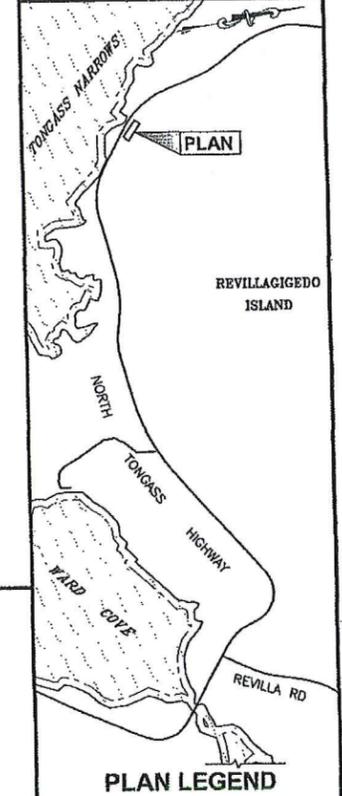


DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

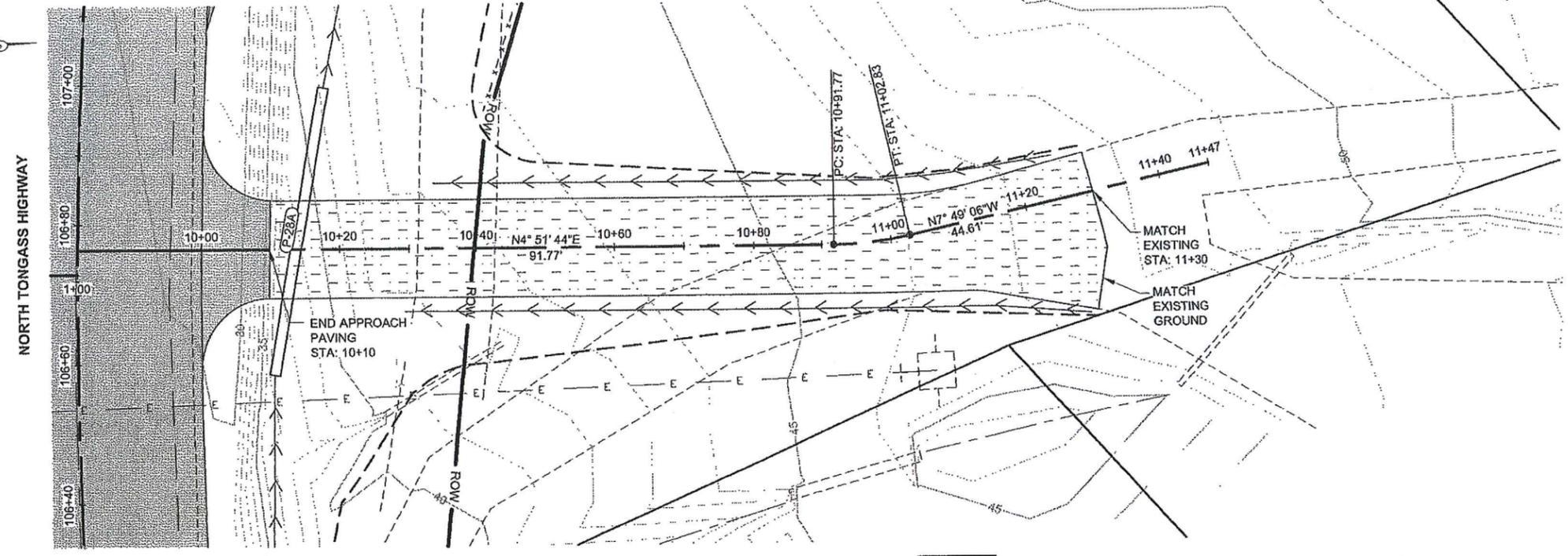
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 GRANTHAM, RICK L (DOT)
 TAB: G13 Tuesday, January 29, 2013 9:01:14 AM

ADDENDUM NUMBER
 ATTACHMENT NUMBER

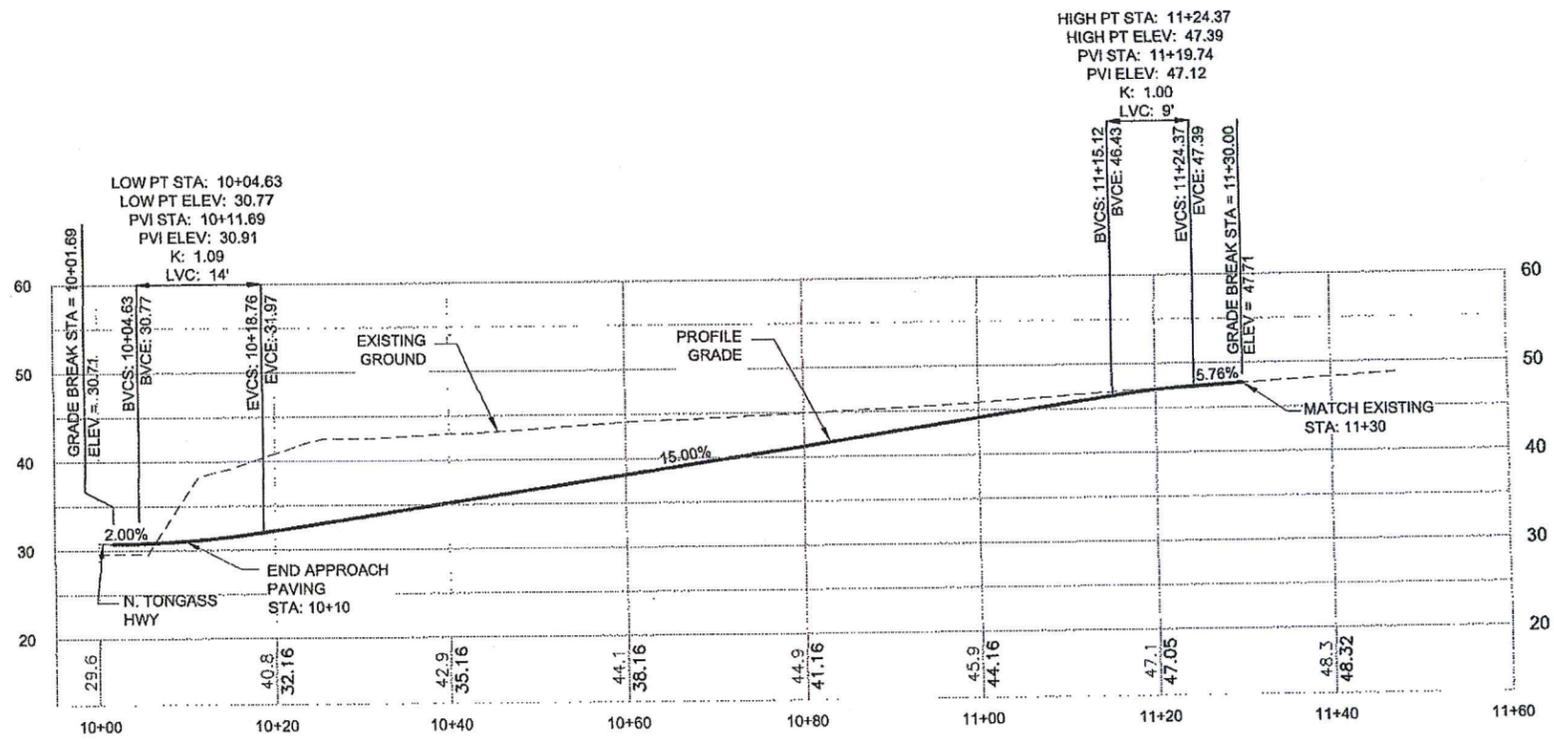
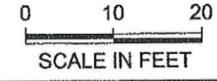
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G13	100

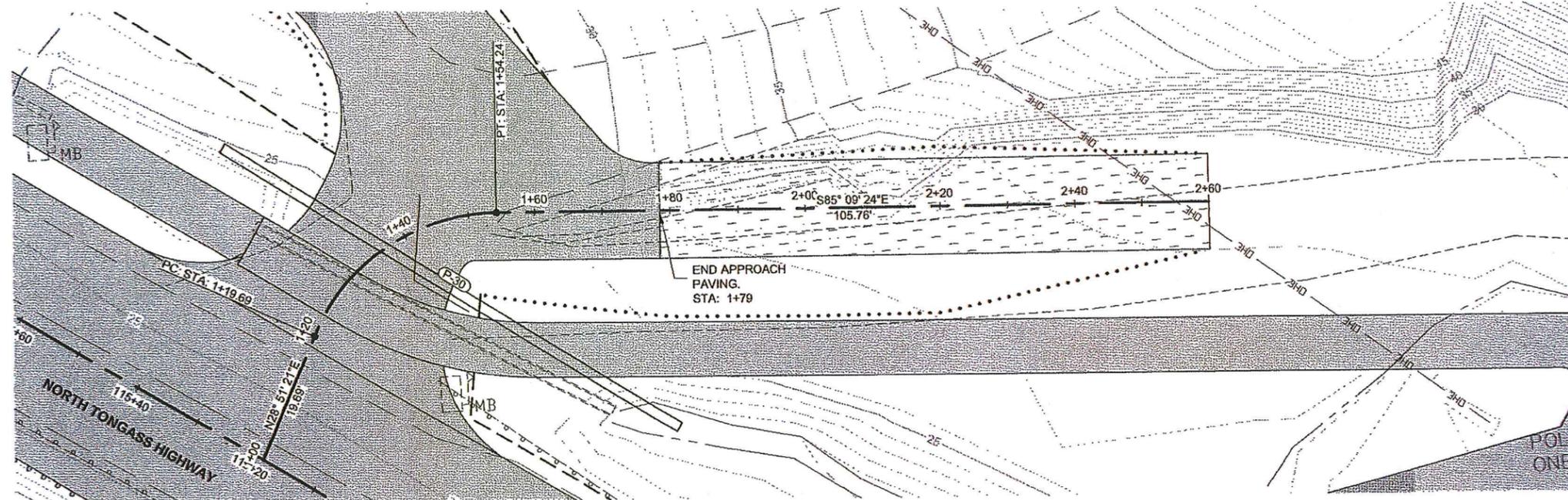


Δ=12°40'50"
 R=50.00
 L=11.07
 T=5.56



RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE DR DATE 10/23/17

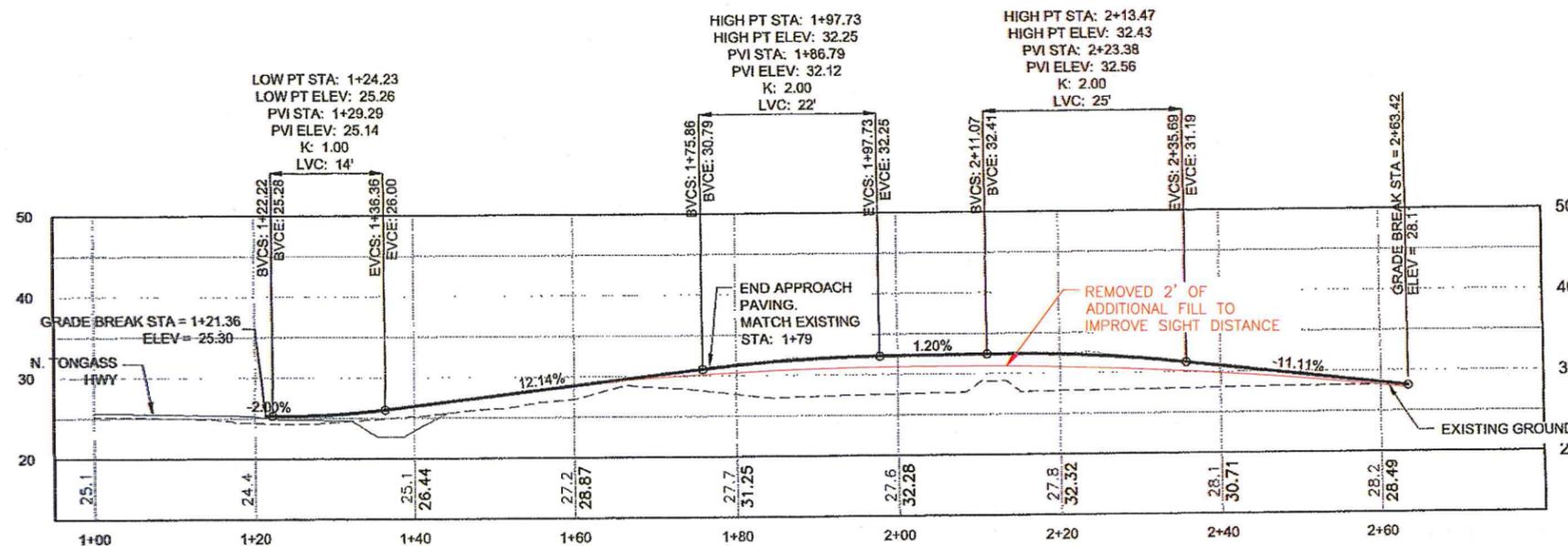
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



$\Delta=65^{\circ}59'14''$
 $R=30.00$
 $L=34.55$
 $T=19.48$

PLAN

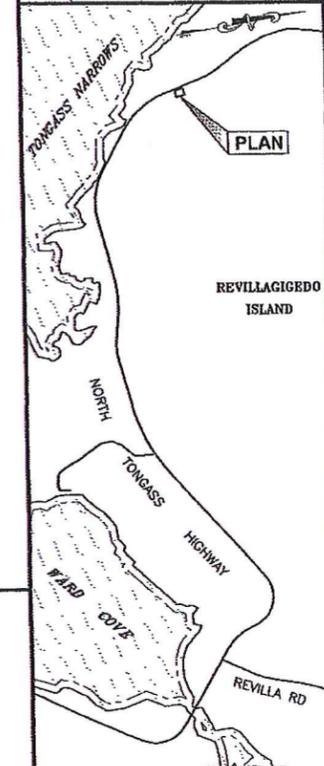
RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE *DK* DATE *10/23/17*



PROFILE
DW 115+22 RT

PATH:
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GRANTHAM, RICK L (DOT)
TAB: G14 Friday, January 11, 2013 11:31:25 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN



DESIGNED BY: N. GEARY

DRAWN BY: R. GRANTHAM

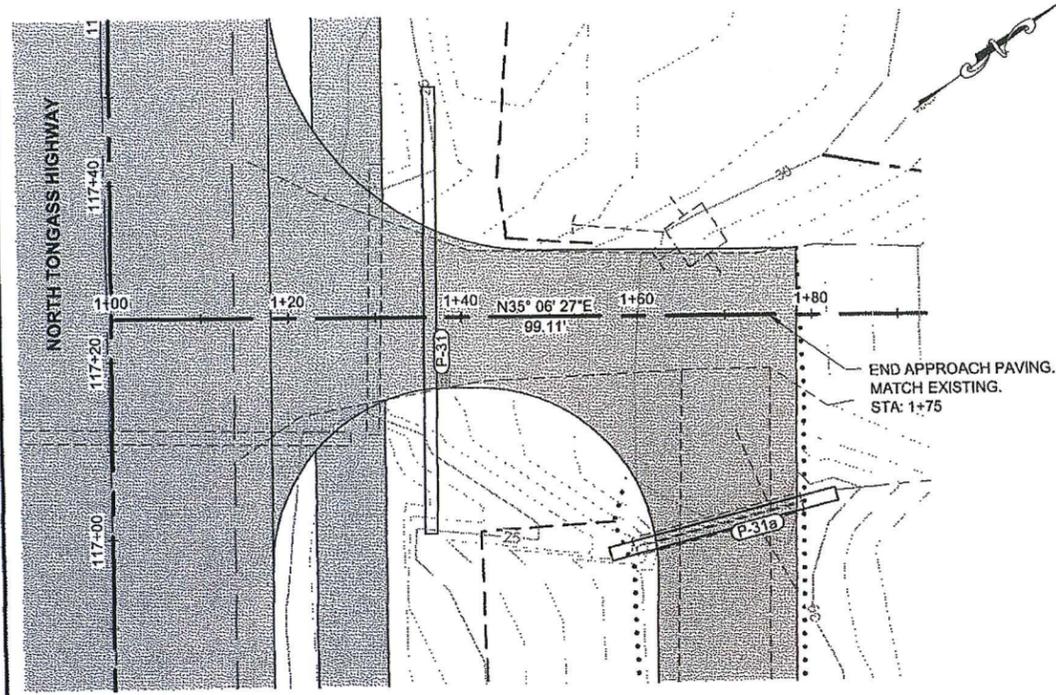
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGUE COVE
PAVEMENT REHABILITATION
PROJECT #68973

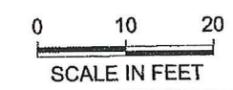
DRIVEWAY PLAN & PROFILE

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G14	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

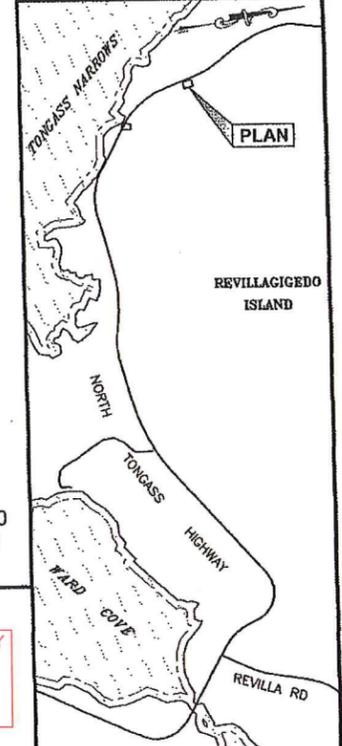


PLAN



PATH:
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(UPDATE).DWG
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TAB: G15 Friday, January 11, 2013 11:31:32 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE *RK* DATE 10/23/17

CHECKED BY: K. KARPSTEIN

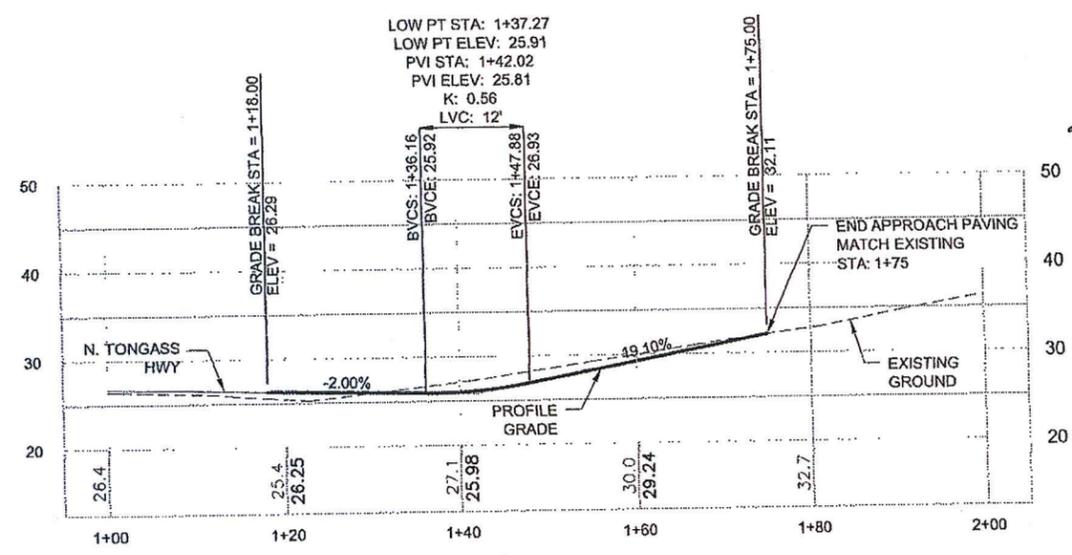


DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

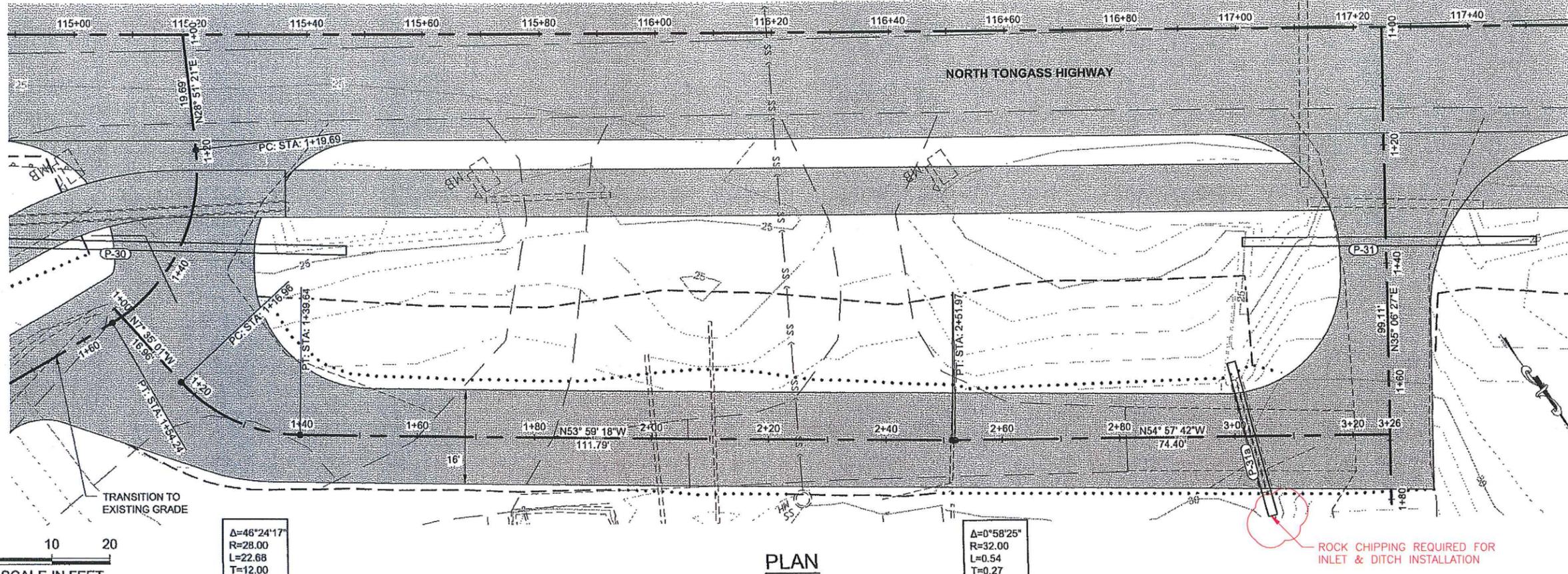
**DRIVEWAY
PLAN & PROFILE**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G15	100



PROFILE
DW 117+24.10 RT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN



PLAN LEGEND

CHECKED BY: K. KARPSTEIN



DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

**DRIVEWAY
PLAN & PROFILE**

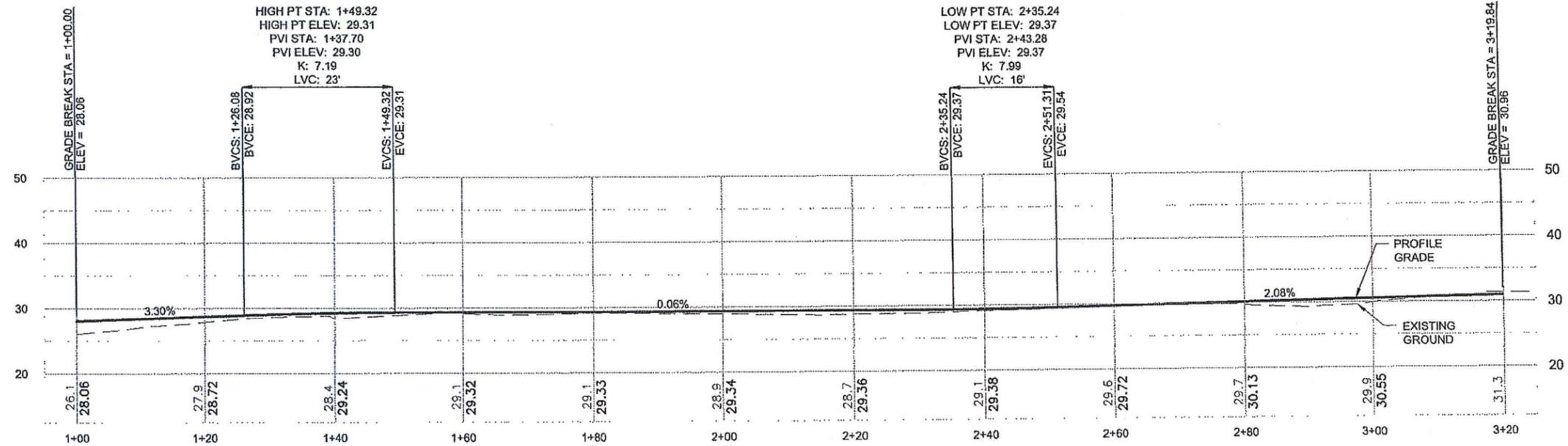
PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
G16	100

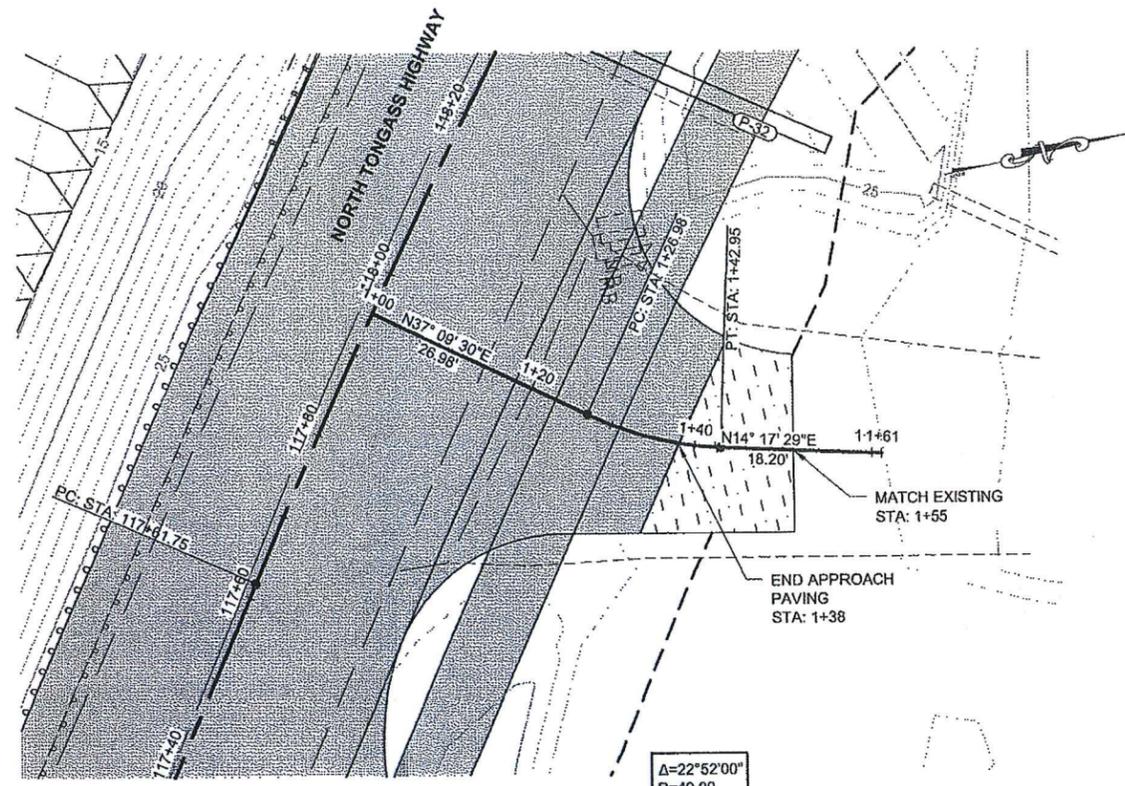
RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE. DR DATE 10/23/17



PROFILE

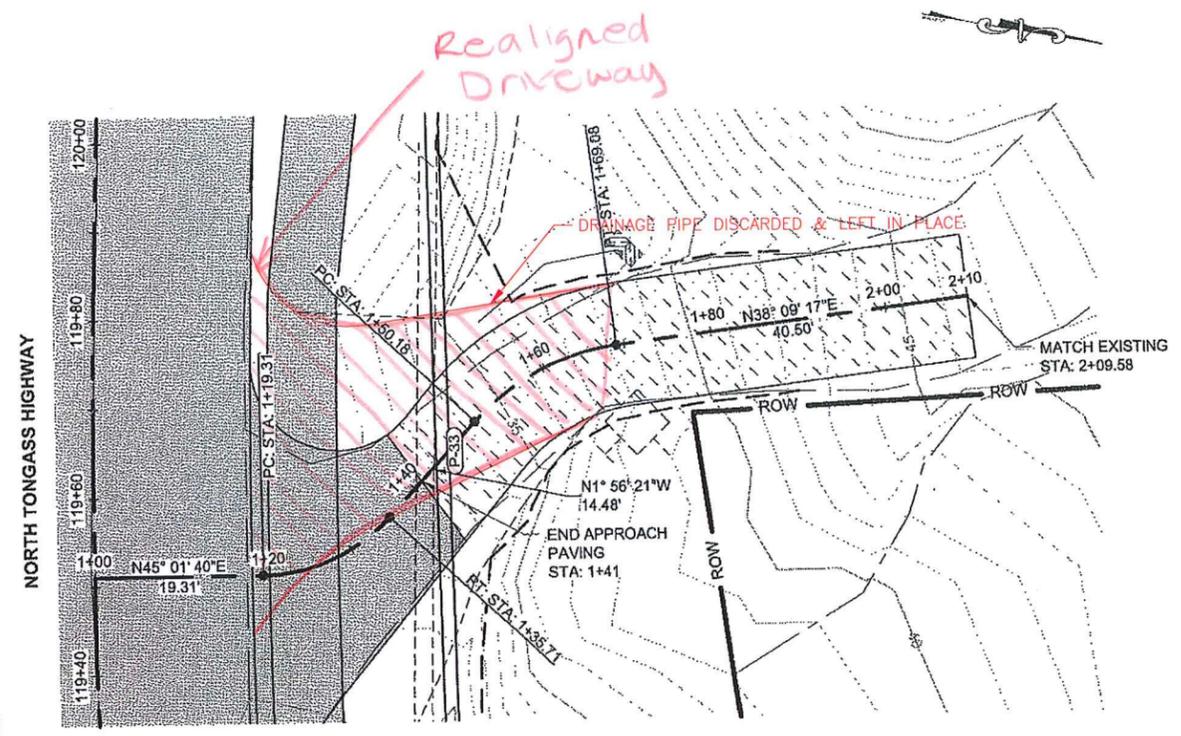
DW 117+77.8 RT, FRONTAGE ROAD

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



0 10 20
SCALE IN FEET

PLAN

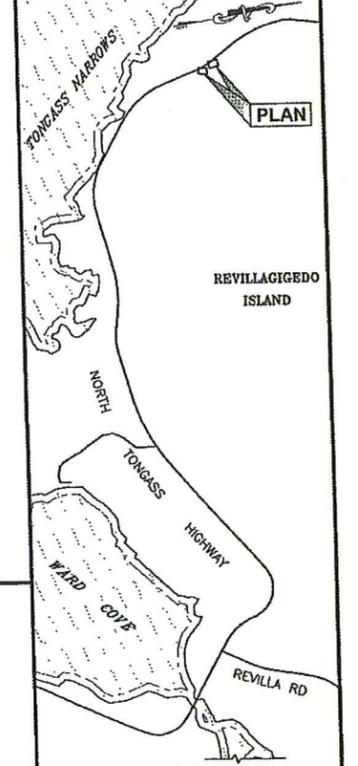


0 10 20
SCALE IN FEET

PLAN

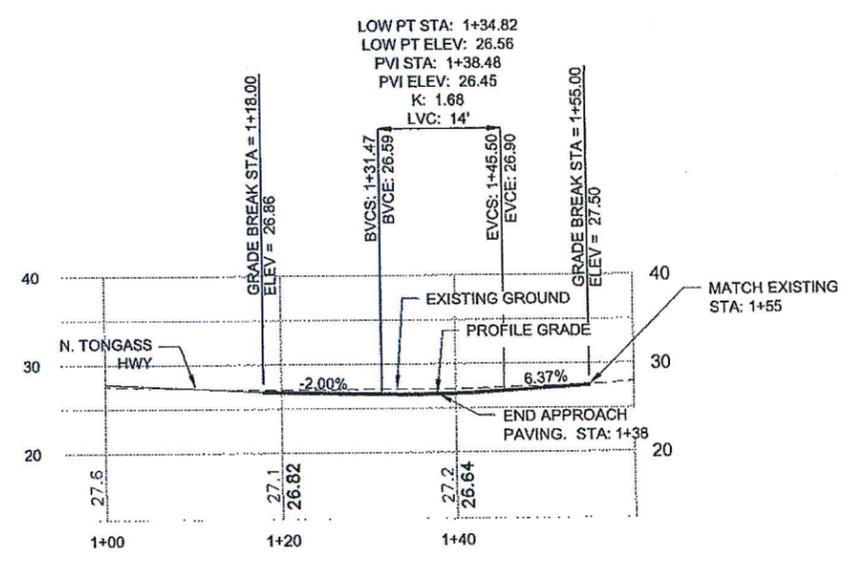
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(UPDATE).DWG
GRANTHAM, RICK L (DOT)
TAB: G17 Friday, January 11, 2013 11:31:50 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

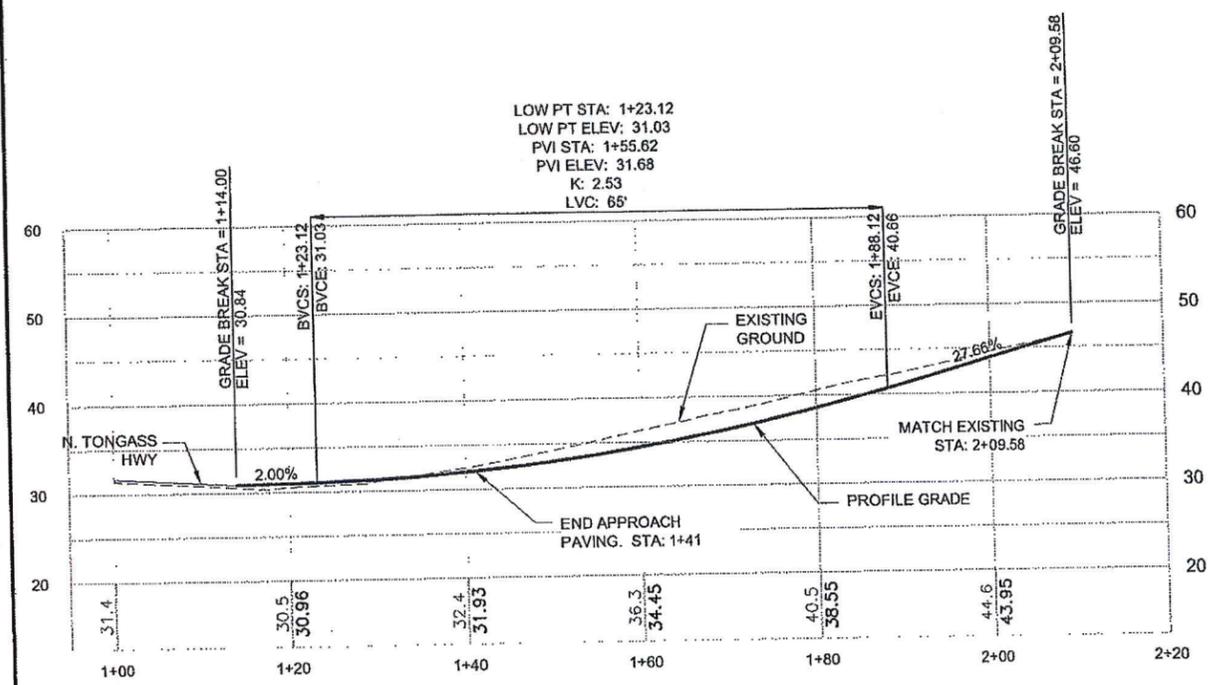


PLAN LEGEND

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE: DJR DATE: 10/23/17



PROFILE
DW 117+77.8 RT



PROFILE
DW 119+14.20 RT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

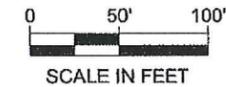
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

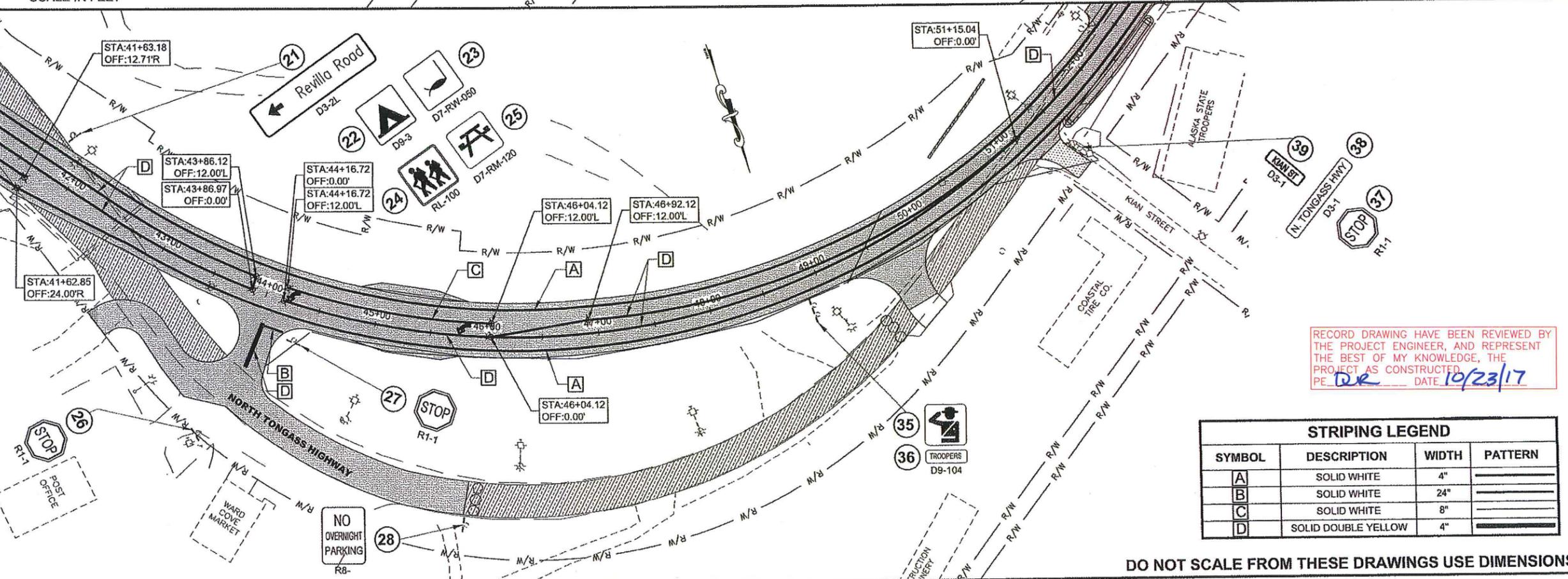
**DRIVEWAY
PLAN & PROFILE**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G17	100

BEGIN PROJECT
"O" STA. 30+32.86



PLAN



STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN
A	SOLID WHITE	4"	=====
B	SOLID WHITE	24"	=====
C	SOLID WHITE	8"	=====
D	SOLID DOUBLE YELLOW	4"	=====

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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GRANTHAM, RICK L (DOT)
TAB: H1 Friday, January 11, 2013 11:39:50 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

REVILLAGIGEDO ISLAND

PLAN

PLAN LEGEND

CHECKED BY: D. EPSTEIN

DESIGNED BY: D. EPSTEIN

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

SIGNING & STRIPING

PROJECT DESIGNATION
68973

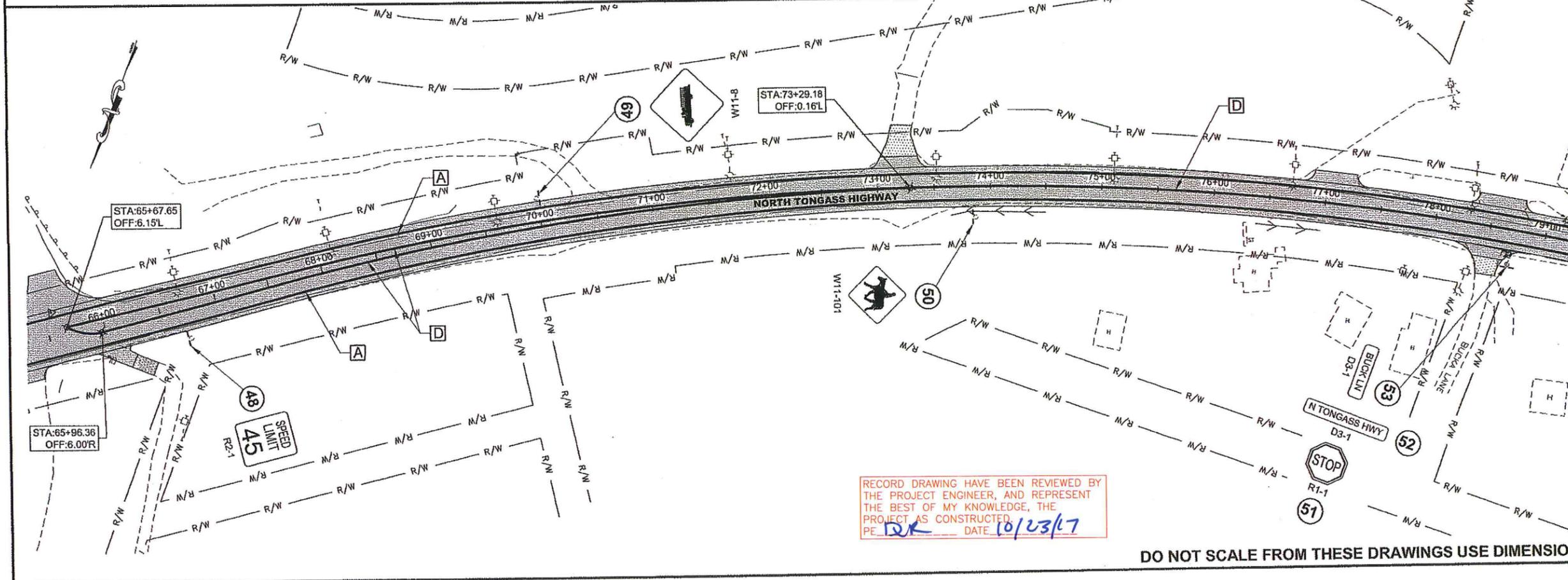
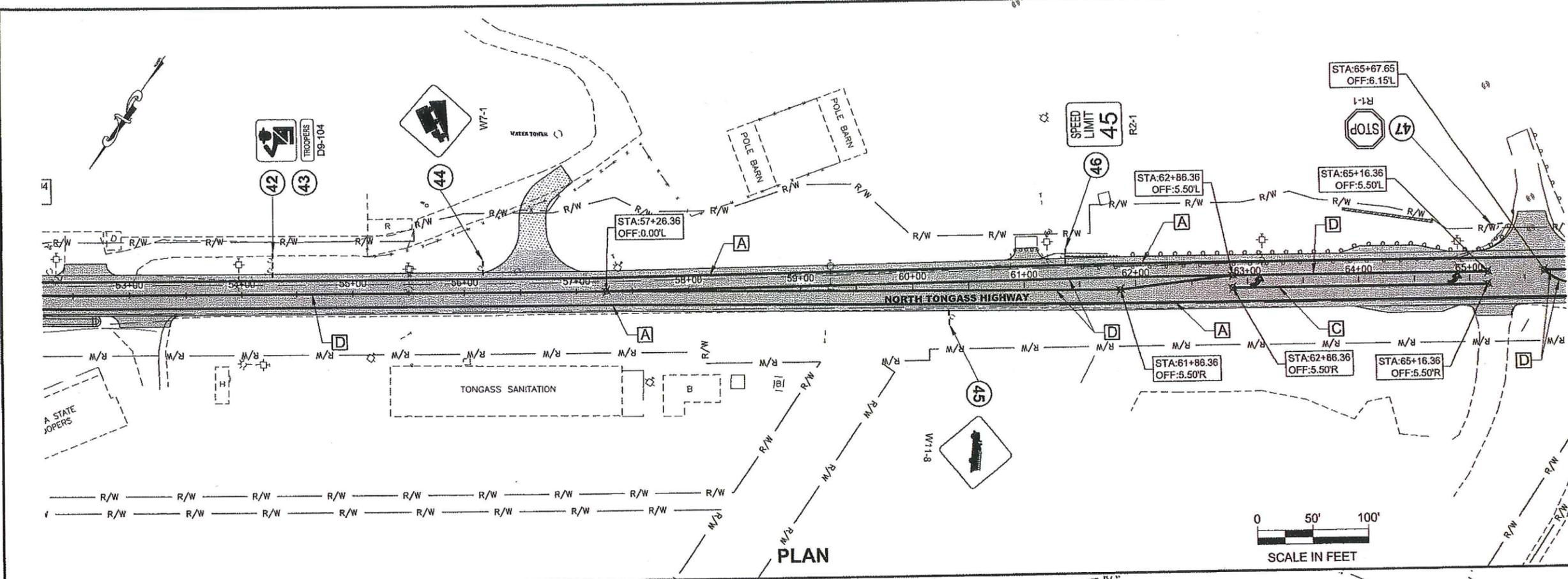
STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
H1	100

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE *DR* DATE *10/23/17*

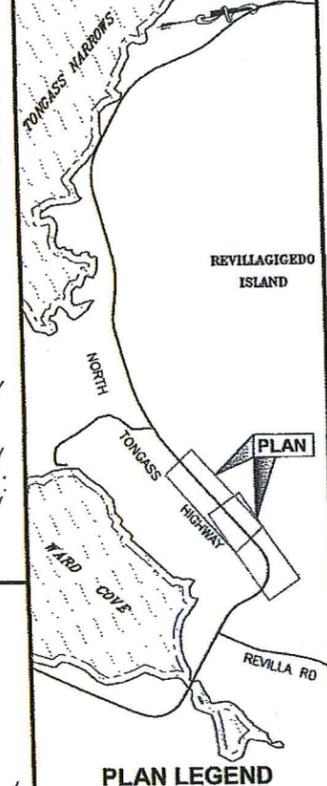
PATH:
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 GRANHAM, RICK L (DOT)
 TAB: H2 Friday, January 11, 2013 11:39:56 AM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE *DK* DATE 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CHECKED BY: D. EPSTEIN



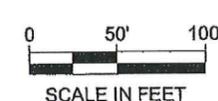
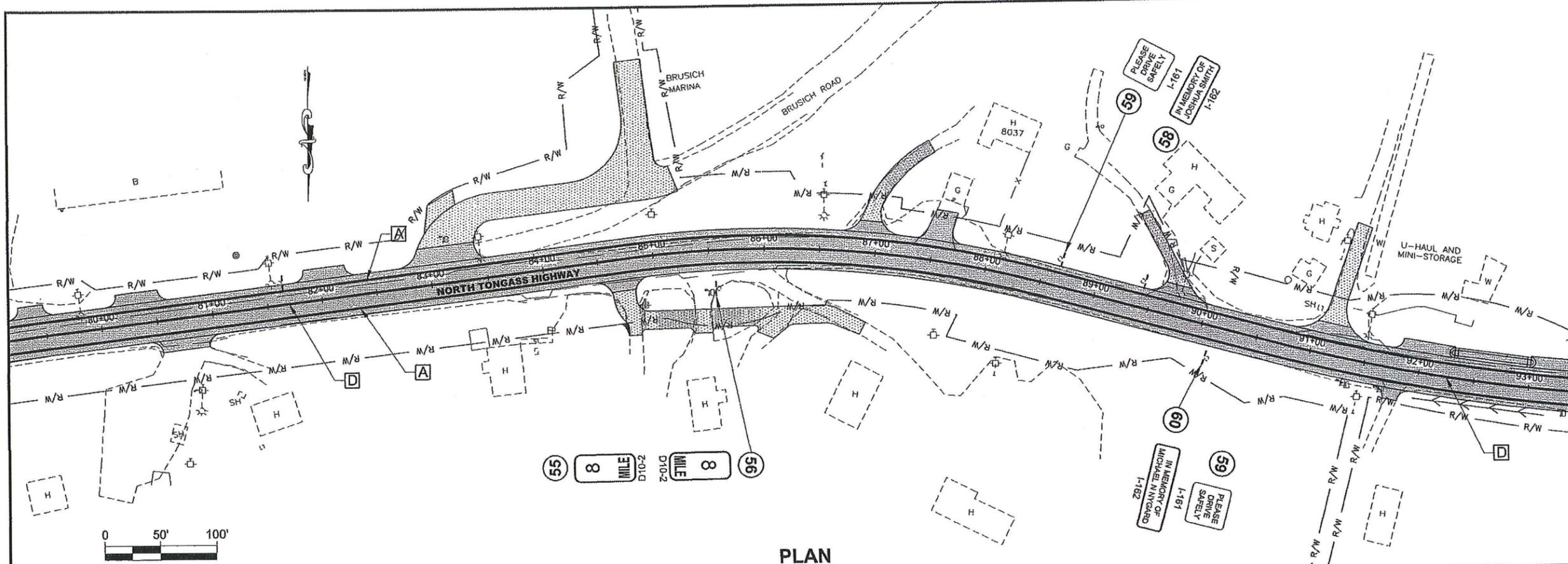
DESIGNED BY: D. EPSTEIN
 DRAWN BY: R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

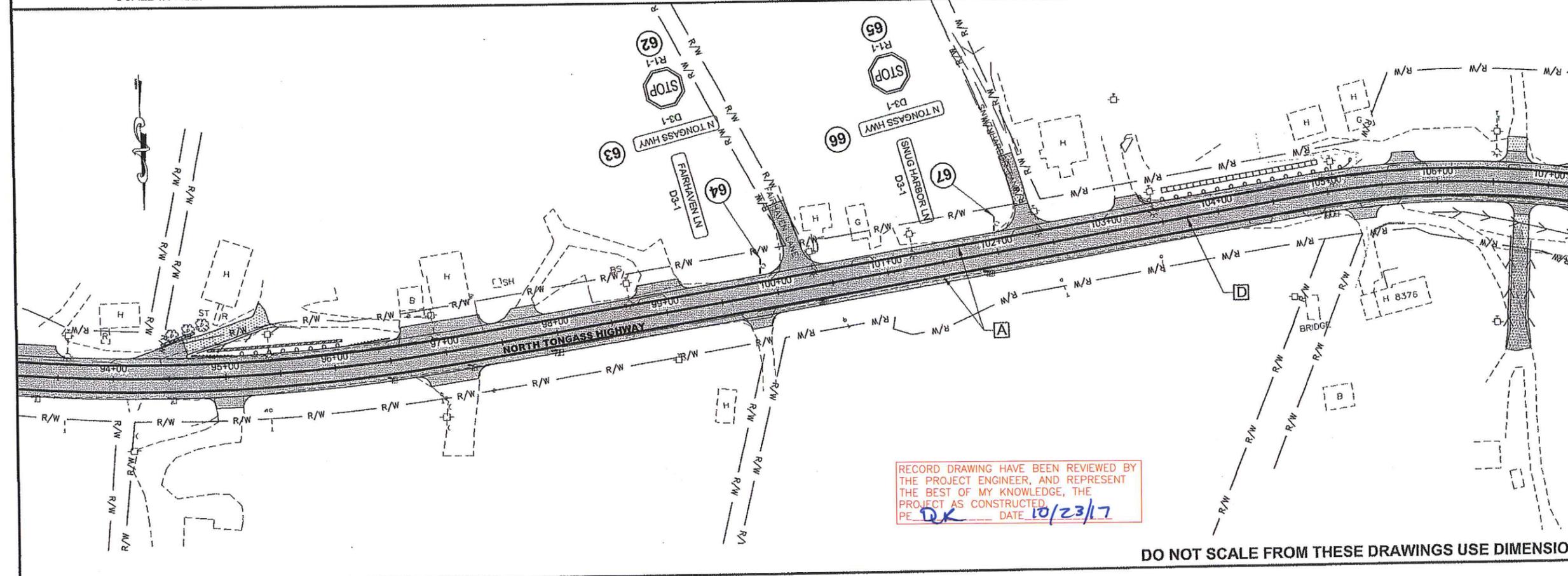
KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

SIGNING & STRIPING

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H2	100



PLAN



RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE DK DATE 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\68973\PLANSET\68973_H1-E_SIGNING_REA

GRANTHAM, RICK L (DOT)
 TAB: H3 Friday, January 11, 2013 11:40:01 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: D. EPSTEIN

DESIGNED BY: D. EPSTEIN

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

SIGNING & STRIPING

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
H3	100

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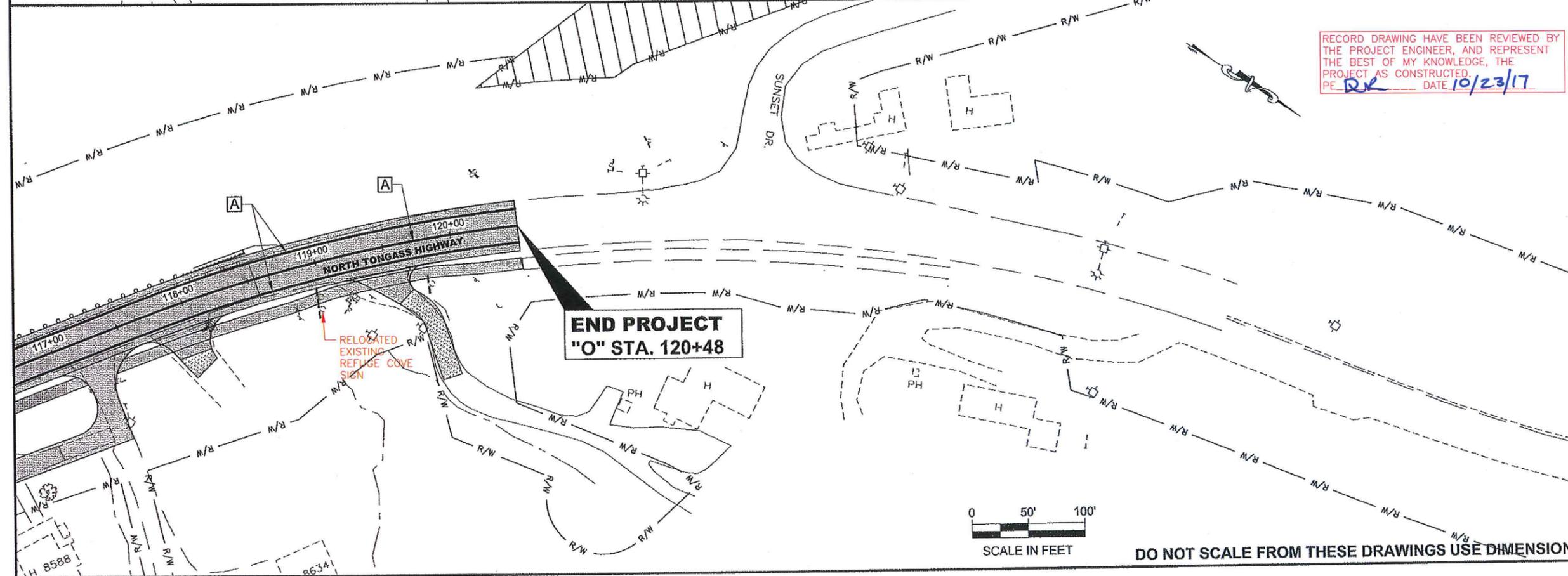
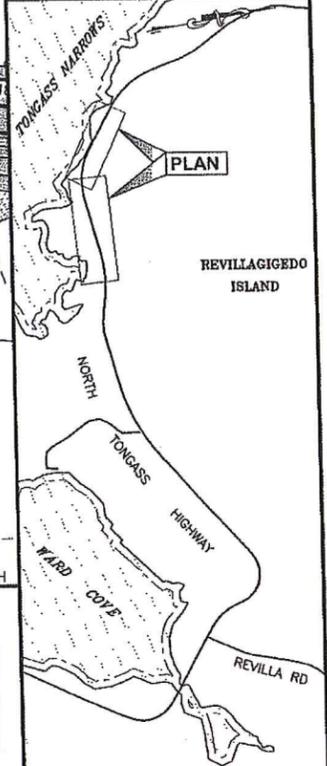
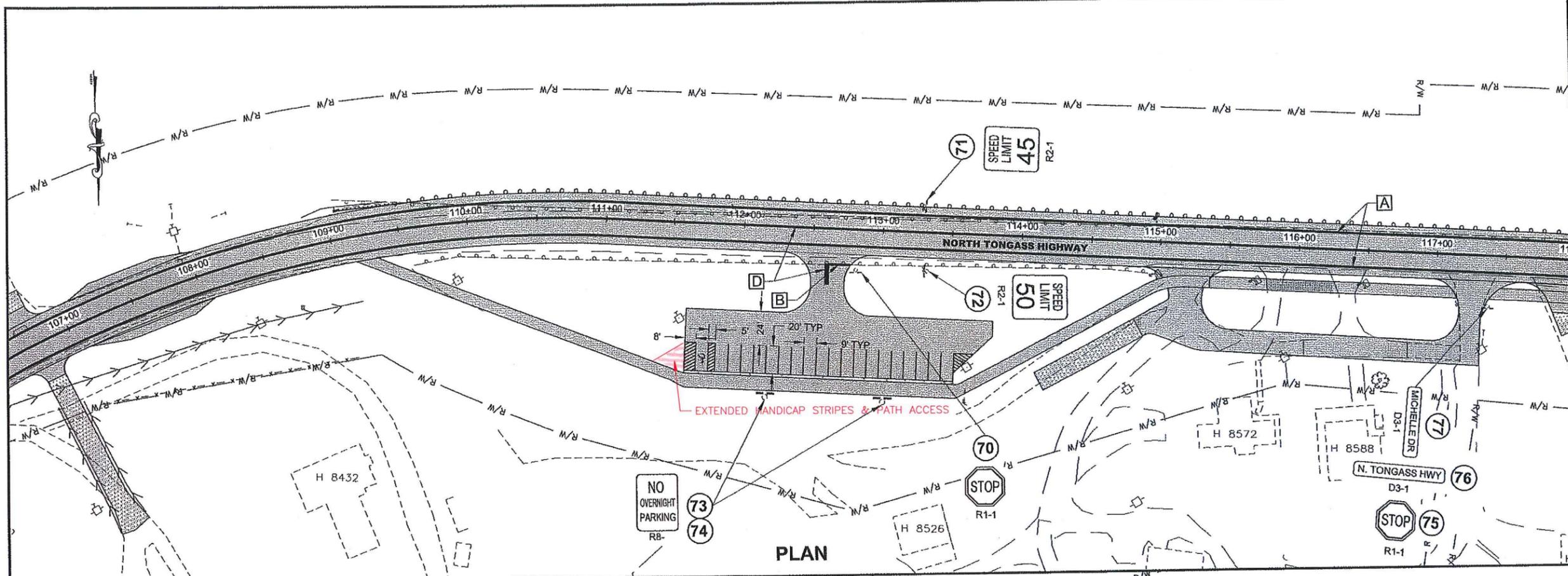
GRANTHAM, RICK L (DOT)
TAB: H4 Friday, January 11, 2013 11:40:05 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: D. EPSTEIN

DESIGNED BY: D. EPSTEIN
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

SIGNING & STRIPING

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H4	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

NOTE:
SIGN FACING DIRECTIONS ARE BASED ON
N. TONGASS ALWAYS ORIENTED NB & SB.

RECORD DRAWING HAVE BEEN REVIEWED BY
THE PROJECT ENGINEER, AND REPRESENT
THE BEST OF MY KNOWLEDGE, THE
PROJECT AS CONSTRUCTED.
PE DR DATE 10/23/17

EXISTING SIGNS TO BE REMOVED		
STA	OFFSET (FT)	REMARKS
STA. 37+99	25 RT	REMOVE EXISTING 35 MPH CURVE ADVISORY
STA. 46+35	177 RT	REMOVE EXISTING CHEVRON LT AND RT
STA. 46+72	173 RT	REMOVE EXISTING CHEVRON LT AND RT
STA. 47+07	168 RT	REMOVE EXISTING CHEVRON LT AND RT
STA. 47+44	170 RT	REMOVE EXISTING CHEVRON LT AND RT
STA. 52+27	21 LT	REMOVE EXISTING 35 MPH CURVE ADVISORY
STA. 81+22	25 RT	REMOVE EXISTING 40 MPH CURVE ADVISORY
STA. 90+83	28 LT	REMOVE EXISTING 40 MPH CURVE ADVISORY
STA. 102+18	24 RT	REMOVE EXISTING 40 MPH CURVE ADVISORY
STA. 111+92	12 LT	REMOVE EXISTING 40 MPH CURVE ADVISORY

615 (1) STANDARD SIGN SUMMARY										
SIGN #	LEGEND	STA.	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST	SIGN FACING	COMMENTS
1	WARD CREEK	28+68	LT	I-3	54	36	13.50	(2) 2.5 PST	NB	8" UPPERCASE LETTERS, 6" LOWERCASE, CLEARVIEW 5W FONT
2	RIGHT CURVE SYMBOL WITH 40 ADVISORY SPEED	29+10	LT	W1-2AR	30	30	6.25	2.5 PST	NB	
3	REVILLA ROAD →	29+25	RT	D3-2R	90	24	15.00	(2) 2.5 PST	SB	
4	CAMPING	29+25	RT	D9-3	24	24	4.00		SB	MOUNT BELOW SIGN # 3.
5	FISHING	29+25	RT	D7-RW-050	24	24	4.00		SB	MOUNT BELOW SIGN # 3.
6	HIKING	29+25	RT	D7-RL-100	24	24	4.00		SB	MOUNT BELOW SIGN # 3.
7	PICNIC BENCH	29+25	RT	D7-RM-120	24	24	4.00		SB	MOUNT BELOW SIGN # 3.
8	BIKE LANE AHEAD	31+17	LT	R3-16	24	30	5.00	2.5 PST	NB	
9	SPEED LIMIT 45	31+57	RT	R2-1	30	36	7.50	2.5 PST	SB	
10	ADOPT A HIGHWAY LITTER CONTROL NEXT MILE	32+88	RT	I-150	30	24	5.00	2.5 PST	SB	KETCHIKAN PULP COMPANY
11	MILE 7	33+30	RT	D10-2	10	27	1.88	2.5 PST	SB	USE 4" LETTERS, FONT SERIES B. USE 6" NUMBERS, FONT SERIES D
12	MILE 7	33+30	RT	D10-2	10	27	1.88		NB	USE 4" LETTERS, FONT SERIES B. USE 6" NUMBERS, FONT SERIES D
13	ADOPT A HIGHWAY LITTER CONTROL NEXT MILE	33+30	LT	I-150	30	24	5.00	2.5 PST	NB	DIXON ENTRANCE CHAPTER SOCIETY OF AMERICAN FORESTERS
14	WARD LAKE → / ↑ SETTLERS COVE 11	33+82	RT	D1-2-2	138	42	40.25	(2) 2.5 PST	SB	USE TWO 3.5" STEEL PIPES FOR SUPPORT.
15	SPEED LIMIT 50	35+82	LT	R2-1	24	30	5.00	2.5 PST	NB	
16	STOP	36+00	RT	R1-1	30	30	6.25	2.5 PST	EB	
17	N TONGASS HWY	36+00	RT	D3-1	42	8	2.33	2.5 PST	EB/WB	MOUNT ABOVE SIGN # 16. USE 4" LETTERS, FONT SERIES C.
18	REVILLA RD	36+00	RT	D3-1	48	12	4.00	-	NB/SB	MOUNT ABOVE SIGN # 16. USE 6" LETTERS, FONT SERIES D.
21	← REVILLA ROAD	40+00	LT	D3-2L	90	24	15.00	(2) 2.5 PST	NB	
22	CAMPING	40+00	LT	D9-3	24	24	4.00	-	NB	MOUNT BELOW SIGN # 21.
23	FISHING	40+00	LT	D7-RW-050	24	24	4.00	-	NB	MOUNT BELOW SIGN # 21.
24	HIKING	40+00	LT	D7-RL-100	24	24	4.00	-	NB	MOUNT BELOW SIGN # 21.
25	PICNIC BENCH	40+00	LT	D7-RM-120	24	24	4.00	-	NB	MOUNT BELOW SIGN # 21.
26	STOP	42+63	RT	R1-1	30	30	6.25	2.5 PST	EB	
27	STOP	44+36	RT	R1-1	30	30	6.25	2.5 PST	EB	
28	MERGE	40+44	RT	W4-2	30	30	6.25	2.5 PST	NB	
29	NO OVERNIGHT PARKING	45+89	RT	R8-	24	30	5.00	2.5 PST	NB	
35	(STATE TROOPERS SYMBOL)	46+33	RT	D9-104	24	24	4.00	2.5 PST	SB	MOUNT BELOW TROOPER SYMBOL. INCLUDED WITH D9-104.
36	TROOPERS PLAQUE	46+33	RT		24	6	1.00	-	SB	
37	STOP	51+42	RT	R1-1	30	30	6.25	2.5 PST	EB	
38	N TONGASS HWY	51+42	RT	D3-1	42	8	2.33	-	EB/WB	MOUNT ABOVE SIGN # 37. USE 4" LETTERS, FONT SERIES C.

PATH:
Q:\KTN\68973\PLANSET\68973_H1-6_SIGNING_REA

GRANTHAM, RICK L (DOT)
TAB: H5 Thursday, January 31, 2013 2:21:36 P

ADDENDUM NUMBER

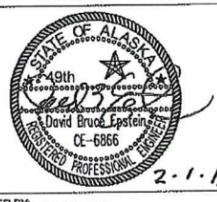
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: D. EPSTEIN



DESIGNED BY: D. EPSTEIN

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGEE COVE
PAVEMENT REHABILITATION
PROJECT #68973

SIGNING & STRIPING

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
H5	100

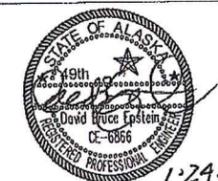
NOTE:
 SIGN FACING DIRECTIONS ARE BASED ON
 N. TONGASS ALWAYS ORIENTED NB & SB.

RECORD DRAWING HAVE BEEN REVIEWED BY
 THE PROJECT ENGINEER, AND REPRESENT
 THE BEST OF MY KNOWLEDGE, THE
 PROJECT AS CONSTRUCTED.
 PE DK DATE 10/23/17

615 (1) STANDARD SIGN SUMMARY										
SIGN #	LEGEND	STA.	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST	SIGN FACING	COMMENTS
39	KIAN ST	51+42	RT	D3-1	42	12	3.50	-	NB/SB	MOUNT ABOVE SIGN # 37. USE 6" LETTERS, FONT SERIES D.
42	(STATE TROOPERS SYMBOL)	54+25	LT	D9-104	24	24	4.00	2.5 PST	NB	
43	TROOPERS PLAQUE	54+25	LT		24	6	1.00	-	SB	MOUNT BELOW TROOPER SYMBOL. INCLUDED WITH D9-104.
44	TRUCK ON HILL (SYMBOL)	56+47	LT	W7-1	36	36	9.00	2.5 PST	NB	
45	FIRE TRUCK (SYMBOL)	60+34	RT	W11-8	36	36	9.00	2.5 PST	SB	
46	SPEED LIMIT 45	61+36	LT	R2-1	30	36	7.50	2.5 PST	NB	
47	STOP	65+25	LT	R1-1	30	30	6.25	2.5 PST	WB	
48	SPEED LIMIT 45	66+71	RT	R2-1	24	30	5.00	2.5 PST	SB	
49	FIRE TRUCK (SYMBOL)	70+00	LT	W11-8	36	36	9.00	2.5 PST	NB	
50	HORSE CROSSING (SYMBOL)	73+87	RT	W11-101	36	36	9.00	2.5 PST	SB	
51	STOP	78+31	RT	R1-1	30	30	6.25	2.5 PST	EB	
52	N TONGASS HWY	78+31	RT	D3-1	42	8	2.33	-	EB/WB	MOUNT ABOVE SIGN # 51. USE 4" LETTERS, FONT SERIES C.
53	BUCKA LN	78+31	RT	D3-1	48	12	4.00	-	NB/SB	MOUNT ABOVE SIGN # 51. USE 6" LETTERS, FONT SERIES D.
54	RIGHT CURVE SYMBOL WITH 40 ADVISORY SPEED	81+10	RT	W1-2AR	30	30	6.25	2.5 PST	SB	
55	MILE 8	85+56	RT	D10-2	10	27	1.88	2.5 PST	SB	
56	MILE 8	85+56	RT	D10-2	10	27	1.88	-	NB	
57	PLEASE DRIVE SAFELY	88+62	LT	I-161	30	30	6.25	2.5 PST	NB	
58	IN MEMORY OF JOSHUA SMITH	88+62	LT	I-162	30	12	2.50	-	NB	MOUNT BELOW SIGN # 57.
59	PLEASE DRIVE SAFELY	90+10	RT	I-161	30	30	6.25	2.5 PST	SB	
60	IN MEMORY OF MICHAEL N NYGARD	90+10	RT	I-162	30	12	2.50	-	SB	MOUNT BELOW SIGN # 59.
61	LEFT CURVE SYMBOL WITH 40 ADVISORY SPEED	90+81	LT	W1-2AL	30	30	6.25	2.5 PST	NB	
62	STOP	99+90	LT	R1-1	30	30	6.25	2.5 PST	WB	
63	N TONGASS HWY	99+90	LT	D3-1	42	8	2.33	-	EB/WB	MOUNT ABOVE SIGN # 62. USE 4" LETTERS, FONT SERIES C.
64	FAIRHAVEN LN	99+90	LT	D3-1	60	12	5.00	-	NB/SB	MOUNT ABOVE SIGN # 62. USE 6" LETTERS, FONT SERIES D.
65	STOP	102+02	LT	R1-1	30	30	6.25	2.5 PST	WB	
66	N TONGASS HWY	102+02	LT	D3-1	42	8	2.33	-	EB/WB	MOUNT ABOVE SIGN # 65. USE 4" LETTERS, FONT SERIES C.
67	SNUG HARBOR LN	102+02	LT	D3-1	72	12	6.00	-	NB/SB	MOUNT ABOVE SIGN # 65. USE 6" LETTERS, FONT SERIES D.
68	RIGHT CURVE SYMBOL WITH 40 ADVISORY SPEED	102+04	RT	W1-2AR	30	30	6.25	2.5 PST	SB	
69	LEFT CURVE SYMBOL WITH 40 ADVISORY SPEED	111+89	LT	W1-2AL	30	30	6.25	2.5 PST	NB	
70	STOP	112+80	RT	R1-1	30	30	6.25	2.5 PST	EB	
71	SPEED LIMIT 45	113+28	LT	R2-1	24	30	5.00	2.5 PST	NB	
72	SPEED LIMIT 50	113+31	RT	R2-1	24	30	5.00	2.5 PST	SB	
73	NO OVERNIGHT PARKING	112+19	RT	R8-	24	30	5.00	2.5 PST	NB	
74	NO OVERNIGHT PARKING	113+03	RT	R8-	24	30	5.00	2.5 PST	NB	
75	STOP	117+14	RT	R1-1	30	30	6.25	2.5 PST	EB	
76	N TONGASS HWY	117+14	RT	D3-1	42	8	2.33	-	EB/WB	MOUNT ABOVE SIGN # 73. USE 4" LETTERS, FONT SERIES C.
77	MICHELLE DR	117+14	RT	D3-1	54	12	4.50	-	NB/SB	MOUNT ABOVE SIGN # 73. USE 6" LETTERS, FONT SERIES D.

PLAN LEGEND

CHECKED BY: D. EPSTEIN



DESIGNED BY: D. EPSTEIN

DRAWN BY: R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

SIGNING & STRIPING

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H6	100

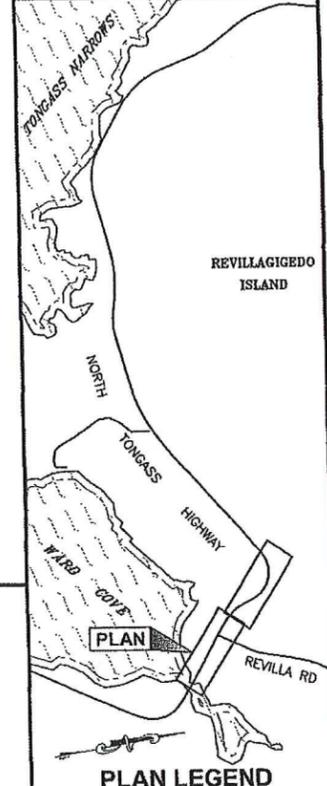
SHEET NOTES:

- ① ALL CONDUIT SHALL BE SCHEDULE 40 PVC, HDPE, OR GRS. USE GRS ELBOWS AND SWEEPS. USE THREE CONDUCTOR CABLE WITH COPPER CONDUCTORS WITH XHHW OR RHW INSULATION RATED AT 600V. USE TWO CONDUCTORS FOR POWER AND ONE AS A SPARE. SPLICE CONDUCTORS ONLY IN LIGHT POLES UNLESS NOTED OTHERWISE. BURY CONDUIT PER TRENCH DETAIL ON SHEET J3. THE CABLE SHALL HAVE AN OUTER JACKET OF XLP OR APPROVED EQUAL. MAINTAIN CONDUIT SEPARATION PER TRENCH DETAIL. INSTALL #8 CU GROUND CONDUCTOR IN ALL CONDUIT IN ACCORDANCE WITH SECTION 660.
- ② NEW TYPE 1A JUNCTION BOX. SEE DOT STANDARD DRAWING L-23. THE LID SHALL BE CAST IRON WITH THE LOGO "LIGHTING" ON TOP. SEE SHEET J3 FOR DETAILS.
- ③ PROVIDE NEW ELECTROLIER PER DETAILS AND SCHEDULES ON SHEETS J3 & J4 AND PER STANDARD DRAWING, L-03. ORIENT ELECTROLIER PERPENDICULAR TO TRAVELED WAY AND AS SHOWN. THE LUMINAIRES SHALL BE 250W HPS WITH MEDIUM CUTOFF OPTICS, TYPE III DISTRIBUTION. THE LUMINAIRE SHALL BE A GE. NO M-250A3, CATALOG NUMBER M2AC25S0M2GMC3 OR APPROVED EQUAL. LUMINAIRE SHALL HAVE MAGNETIC REGULATOR BALLASTS AND HPS LAMPS WITH A 24,000 HOUR RATED LIFE.
- ④ NEW TYPE 2 LOAD CENTER. POWER THE NEW LUMINAIRES FROM THE LOAD CENTER AS SHOWN. PROVIDE A PHOTOCELL ON TOP OF LOAD CENTER AND SHIELD FROM ARTIFICIAL LIGHT. COORDINATE WITH KPU TO PROVIDE A 120/240V, SINGLE PHASE SERVICE TO THE NEW LOAD CENTER.
- ⑤ CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR THE SERVICES OF THE UTILITY, KPU, TO PROVIDE NEW ELECTRICAL SERVICES TO LOAD CENTERS. SEE LOAD CENTER SUMMARY, SHEET J4 AND DOT STANDARD DRAWING L-26.

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE *DR* DATE 10/23/17

PATH:
 Q:\KTYN\68973\PLANSET\68973_J1-4_ILUM
 ELEC.DWG
 GRANHAM, RICK L (DOT)
 TAB: J1 Friday, January 25, 2013 11:41:38 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DESIGNED BY: N. GEARY
 DRAWN BY: N. GEARY, R. GRANHAM

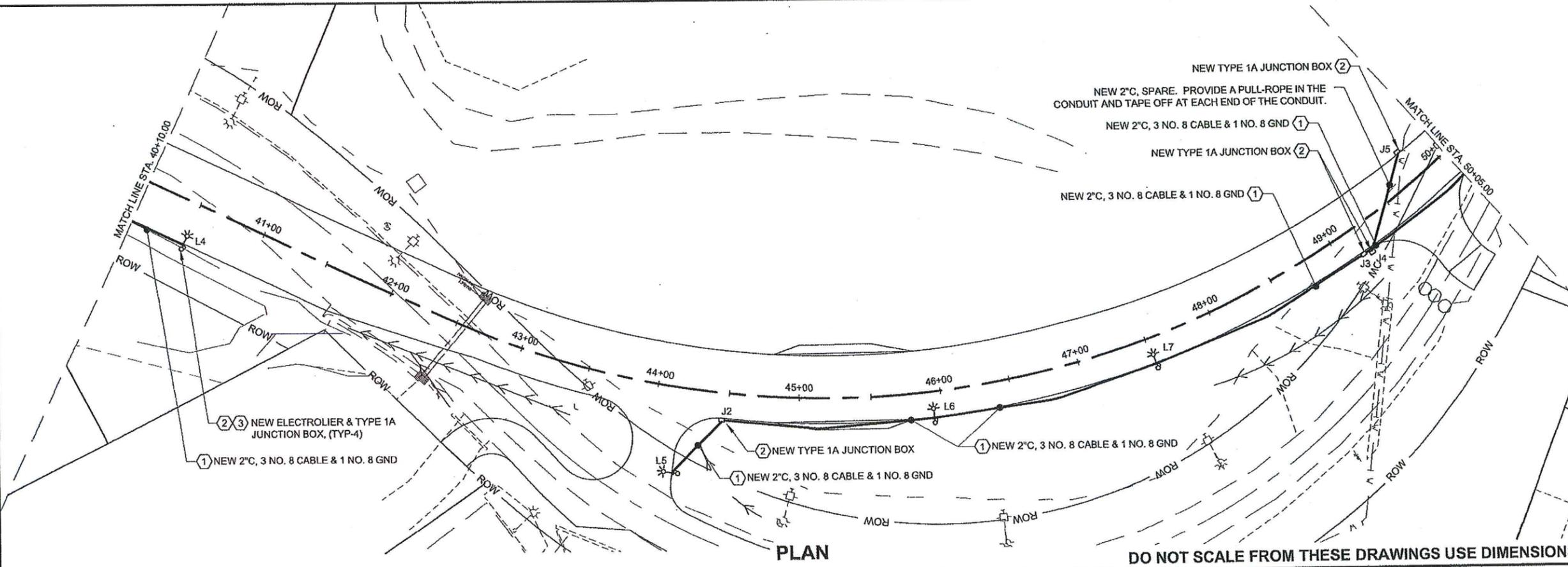
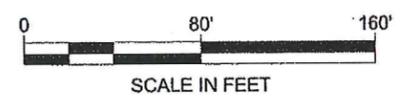
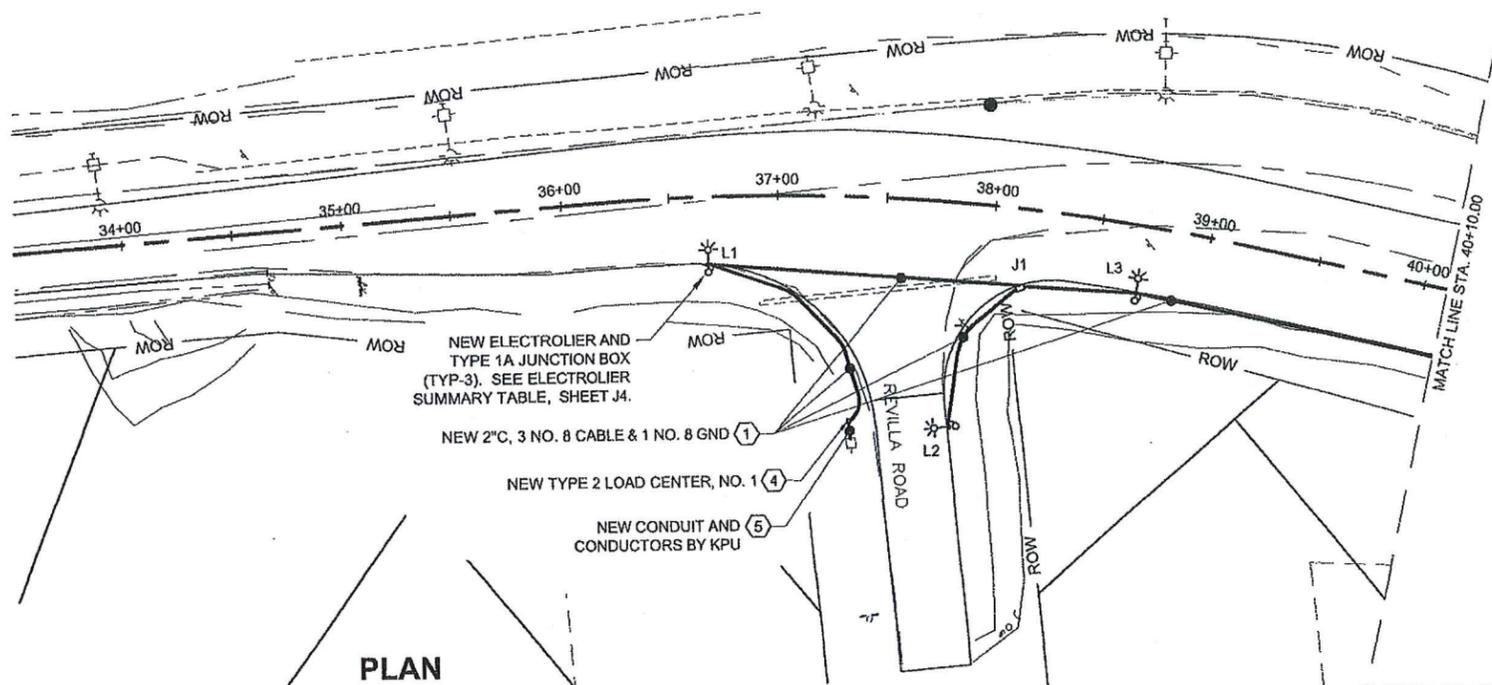
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

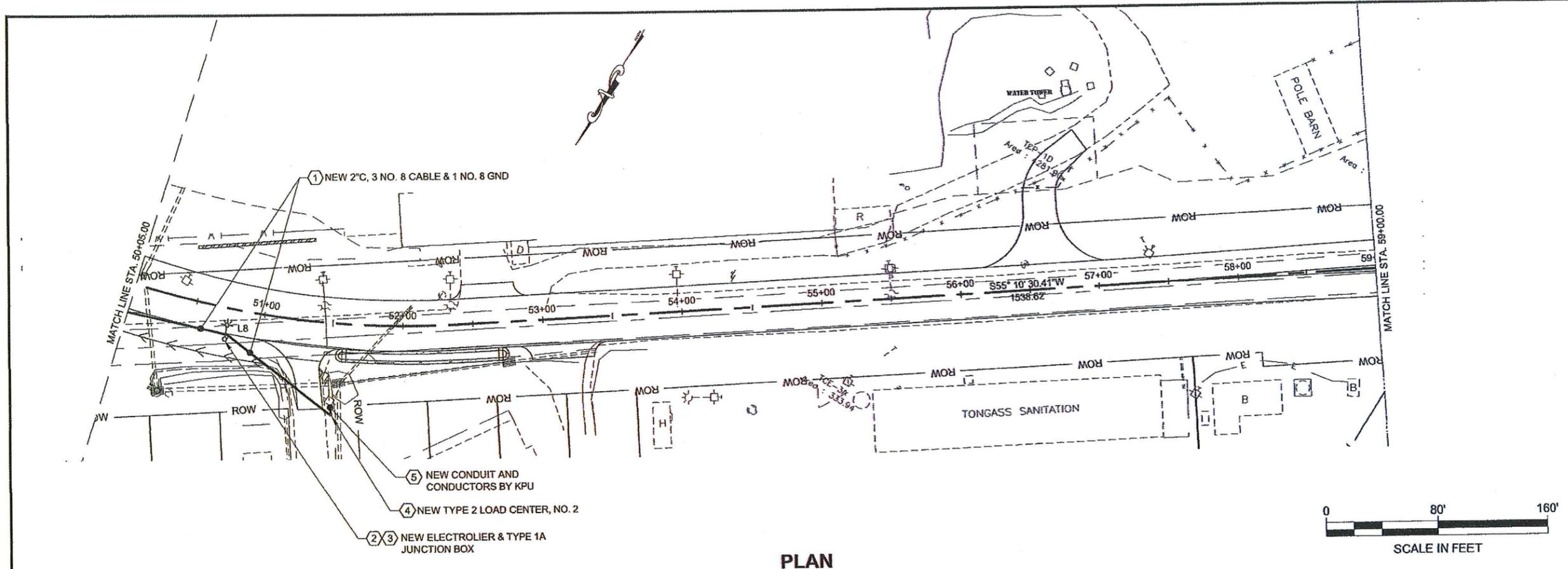
HIGHWAY ILLUMINATION PLAN

PROJECT DESIGNATION
68973

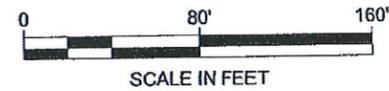
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
J1	100



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN



SHEET NOTES:

- ① ALL CONDUIT SHALL BE SCHEDULE 40 PVC, HDPE, OR GRS. USE GRS ELBOWS AND SWEEPS. USE THREE CONDUCTOR CABLE WITH COPPER CONDUCTORS WITH XHHW OR RHW INSULATION RATED AT 600V. USE TWO CONDUCTORS FOR POWER AND ONE AS A SPARE. SPLICE CONDUCTORS ONLY IN LIGHT POLES UNLESS NOTED OTHERWISE. BURY CONDUIT PER TRENCH DETAIL ON SHEET J3. THE CABLE SHALL HAVE AN OUTER JACKET OF XLP OR APPROVED EQUAL. MAINTAIN CONDUIT SEPARATION PER TRENCH DETAIL. INSTALL #8 CU GROUND CONDUCTOR IN ALL CONDUIT IN ACCORDANCE WITH SECTION 660.
- ② NEW TYPE 1A JUNCTION BOX. SEE DOT STANDARD DRAWING L-23. THE LID SHALL BE CAST IRON WITH THE LOGO "LIGHTING" ON TOP. SEE SHEET J3 FOR DETAILS.
- ③ PROVIDE NEW ELECTROLIER PER DETAILS AND SCHEDULES ON SHEETS J3 & J4 AND PER STANDARD DRAWING, L-03. ORIENT ELECTROLIER PERPENDICULAR TO TRAVELED WAY AND AS SHOWN. THE LUMINAIRE SHALL BE 250W HPS WITH MEDIUM CUTOFF OPTICS, TYPE III DISTRIBUTION. THE LUMINAIRE SHALL BE A GE. NO M-250A3, CATALOG NUMBER M2AC25S0M2GMC3 OR APPROVED EQUAL. LUMINAIRE SHALL HAVE MAGNETIC REGULATOR BALLASTS AND HPS LAMPS WITH A 24,000 HOUR RATED LIFE.
- ④ NEW TYPE 2 LOAD CENTER. POWER THE NEW LUMINAIRE FROM THE LOAD CENTER AS SHOWN. PROVIDE A PHOTOCELL ON TOP OF LOAD CENTER AND SHIELD FROM ARTIFICIAL LIGHT. COORDINATE WITH KPU TO PROVIDE A 120/240V, SINGLE PHASE SERVICE TO THE NEW LOAD CENTER.
- ⑤ CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR THE SERVICES OF THE UTILITY, KPU, TO PROVIDE NEW ELECTRICAL SERVICES TO LOAD CENTERS. SEE LOAD CENTER SUMMARY, SHEET J4 AND DOT STANDARD DRAWING L-26.

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE DK DATE 10/23/17

PATH:
 Q:\KTN\68973\PLANSET\68973_J1-4_ILUM
 ELEC.DWG
 GRANTHAM, RICK L (DOT)
 TAB: J2 Friday, January 25, 2013 10:47:39 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: MAUREEN A. HANSEN

DESIGNED BY: N. GEARY
 DRAWN BY: N. GEARY, R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

HIGHWAY ILLUMINATION PLAN

PROJECT DESIGNATION

68973

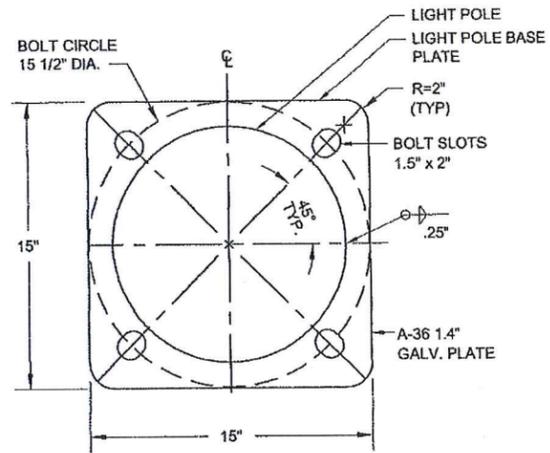
STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
J2	100

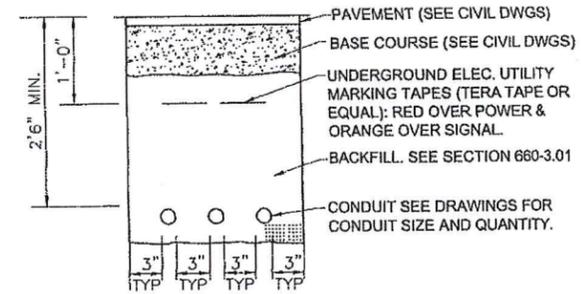
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ILLUMINATION GENERAL NOTES

- EACH NEW ELECTROLIER SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE FOUNDATION AS SHOWN IN THE POLE AND J-BOX WIRING DETAIL.
- ALL JUNCTION BOXES SHALL BE TYPE 1A. SEE STANDARD DRAWING L-23.01.
- NEW ELECTROLIER FOUNDATIONS SHALL BE PRE-CAST. PRE-CAST FOUNDATIONS SHALL BE LIFTED AND TRANSPORTED USING A DEVICE THAT DISTRIBUTES THE LOAD EVENLY BETWEEN THE ANCHOR BOLTS. SEE SHEET J4 FOR FOUNDATION DETAIL.
- ILLUMINATION CIRCUIT WIRES SHALL BE NO. 8 AWG., 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION L-660.
- MAXIMUM SPACING BETWEEN JUNCTION BOXES SHALL BE 190 FEET. PROVIDE ADDITIONAL JUNCTION BOXES AS NECESSARY TO MEET THIS SPACING. THE COST TO INSTALL ADDITIONAL JUNCTION BOXES SHALL BE INCIDENTAL TO THE LIGHTING SYSTEM PAY ITEM.
- COORDINATE WITH GENERAL CONTRACTOR TO ADJUST JUNCTION BOXES SO THAT THE TOP OF EACH JUNCTION BOX IS FLUSH WITH FINISHED GRADE.
- COORDINATE WITH KPU DIRECTLY FOR ALL WORK AT UTILITY POLES.
- PROVIDE GROUNDING BUSHING ON CONDUIT ENTERING J-BOXES, POLES, AND AS REQUIRED PER THE NEC.
- LUMINAIRE MAST ARMS SHALL BE 10 FEET AND POLES SHALL BE 40 FEET UNLESS NOTED OTHERWISE.
- SIZE POLE WITH LUMINAIRE AS REQUIRED FOR SUSTAINED WINDS OF 100 MPH AND GUSTS TO 120 MPH.



LIGHT POLE BASE DETAIL
NO SCALE

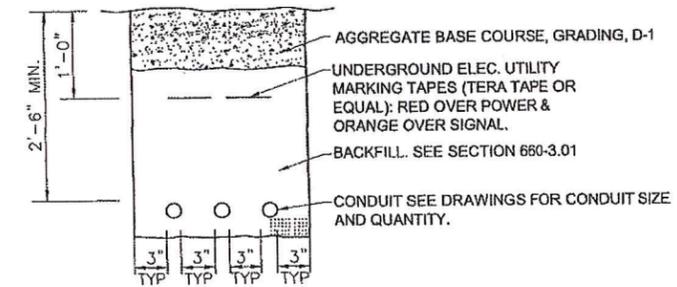


TRENCH DETAIL - ROADWAY PAVED AREAS
NO SCALE

NOTES:

- ALL DIMENSIONS ARE MINIMUM.
- SEE CIVIL DRAWINGS FOR TYPICAL SECTIONS UNDER PAVED AREAS. PROVIDE BACKFILL (MATERIAL, COMPACTION, ETC.) PER THE CIVIL DRAWINGS.
- THE LOCATION OF ALL EXISTING PIPING, CONDUIT, ETC MAY NOT BE WHERE SHOWN AND MAY NOT BE SHOWN. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES AND OTHER CONFLICTS.
- SAWCUT EXISTING ASPHALT AS REQUIRED TO INSTALL CONDUIT AND OTHER ELECTRICAL ITEMS. SAWCUT ASPHALT BACK 18" ON EACH SIDE OF EDGE OF TRENCH OR EXCAVATION AREA (ALL SIDES). THERE SHALL BE 18" OF UNDISTURBED SOIL BETWEEN EDGE OF SAWCUT AND EXCAVATION LIMITS. ALL TRENCHES SHALL BE 18" WIDE MIN. TOP 6" OF MATERIAL SHALL BE D-1. RE-PAVE SAWCUT AREAS PER PAVING SPECIFICATIONS.
- MAINTAIN 12 INCHES MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER EXISTING CONDUITS, PIPES, ETC.

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE. *DR* DATE 10/23/17



TRENCH DETAIL - ROADWAY NON-PAVED AREAS
NO SCALE

NOTES:

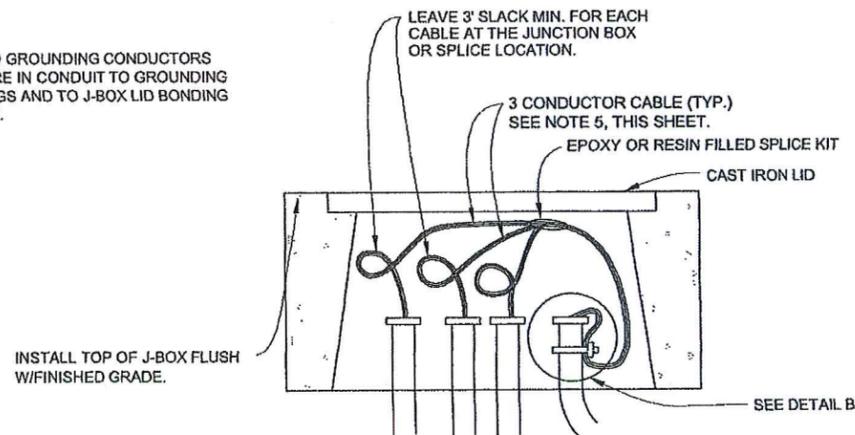
- ALL DIMENSIONS ARE MINIMUM.
- THE LOCATION OF ALL EXISTING PIPING, CONDUIT, ETC MAY NOT BE WHERE SHOWN AND MAY NOT BE SHOWN. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES AND OTHER CONFLICTS.
- MAINTAIN 12 INCHES MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND COMMUNICATION CONDUITS.
- ALL TRENCHES SHALL BE 18" WIDE MIN. TOP 6" OF MATERIAL SHALL BE D-1.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

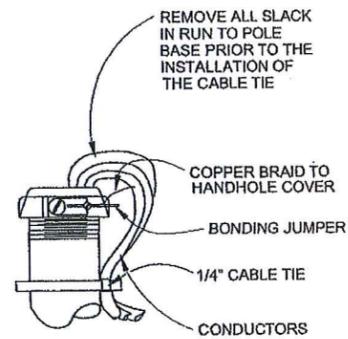
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ELEC.DWG		
GRANTHAM, RICK L (DOT)		
TAB: J3 Friday, January 25, 2013 11:23:39 AM		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

NOTE:

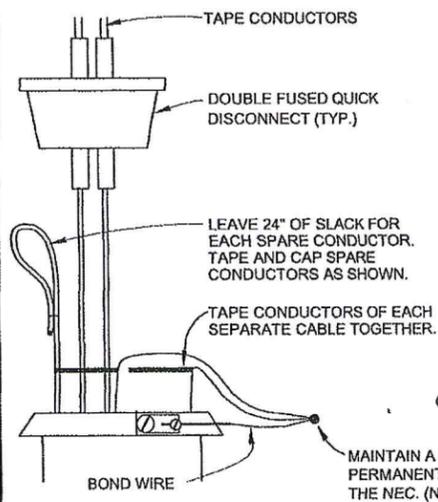
- BOND GROUNDING CONDUCTORS THAT ARE IN CONDUIT TO GROUNDING BUSHINGS AND TO J-BOX LID BONDING JUMPER.



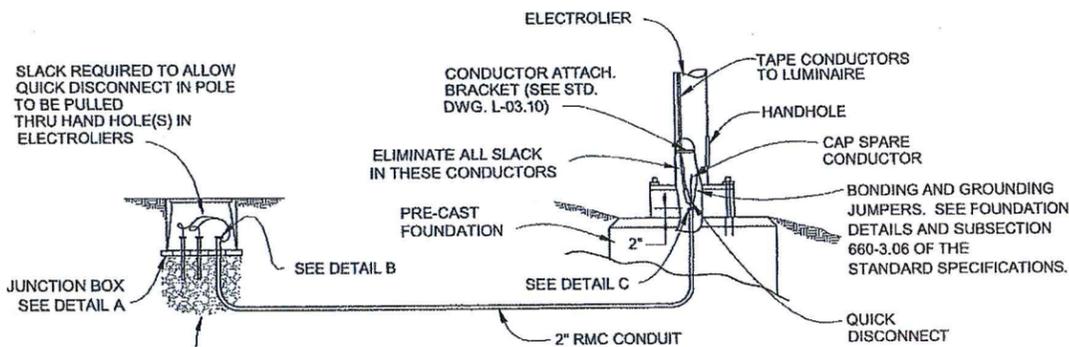
DETAIL A



DETAIL B
(IN J-BOX)



DETAIL C
(IN POLE BASE)



LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS
(BREAKAWAY COUPLINGS)

CHECKED BY: MAUREEN A. HANSEN



DESIGNED BY: N. GEARY

DRAWN BY: N. GEARY, R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

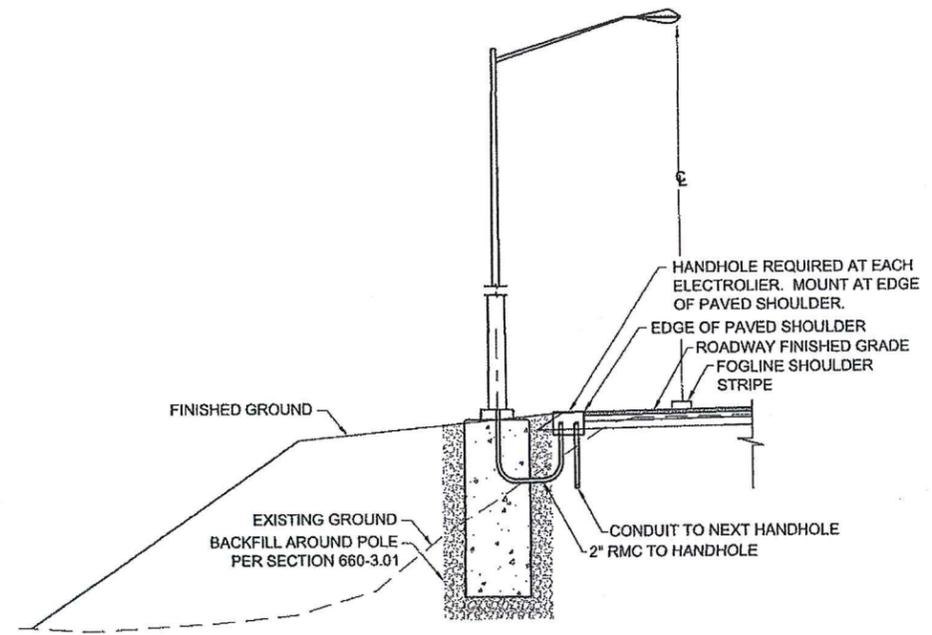
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

ILLUMINATION DETAILS

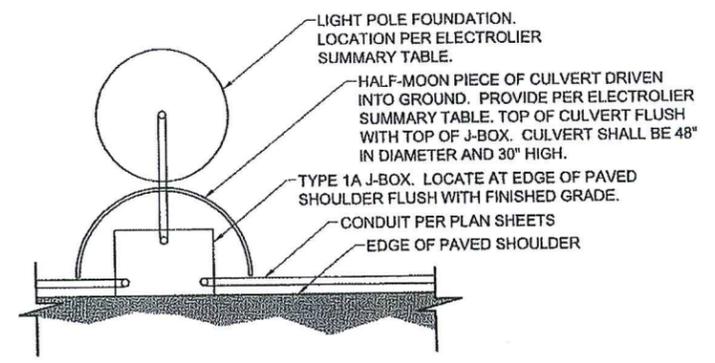
PROJECT DESIGNATION

68973

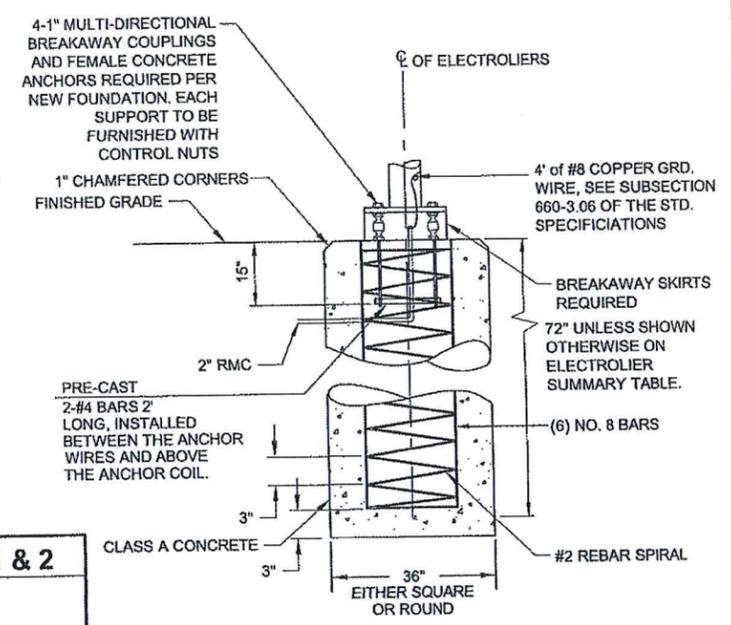
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
J3	100



TYPICAL SECTION FOR ELECTROLIERS L2, L5 - L8
 NO SCALE



ELECTROLIER FOUNDATION / HANDHOLE INSTALLATION DETAIL
 NO SCALE



FOUNDATION WITH BREAKAWAY COUPLINGS

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE DR DATE 10/23/17

SUMMARY OF LIGHTING LOAD CENTERS: NO. 1 & 2

LOCATION DATA: NO 1: STA. 37+35.0, OFFSET 100.0
 NO 2: STA. 51+52.7, OFFSET 65.0
 LOAD CENTER: TYPE 2. SEE STANDARD DRAWING, L-26.00
 POWER SOURCE: UTILITY POLE ADJACENT LOAD CENTER
 PHOTOELECTRIC CONTROL: PROVIDE AT LOAD CENTER

SERVICE VOLTAGE: 1 PHASE, 3-WIRE, 120/240 VOLTS, 60 Hz.
 INTERRUPTING CAPACITY OF CIRCUIT BREAKERS-SERIES RATED: 10,000 AIC
 PROVIDE METER SOCKET? YES SERVICE AMPS 100A

MAIN BREAKER A: 240 VOLT, 2 POLE, 30 AMPERES
 CONTACTOR: 600 VOLT, 4 POLE, 30 AMPERES

LOAD PANEL A SUMMARY				
CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER	
			AMPS	POLES
A1	PHOTO ELECTRIC CONTROL	0.10	15A	1
A2	ROADWAY LIGHTING	1.20	20A	2
A3	-	-	-	-
A4	SPARE	0.00	20A	2
A5	--	--	--	--
A6	SPACE	-	-	-
TOTAL DEMAND LOAD:		1.30 KVA		

NOTE:
 1. THE LIGHTING CONTACTOR SHALL BE CONTROLLED BY THE P.E. CELL WHEN THE HOA SWITCH IS IN AUTOMATIC POSITION.

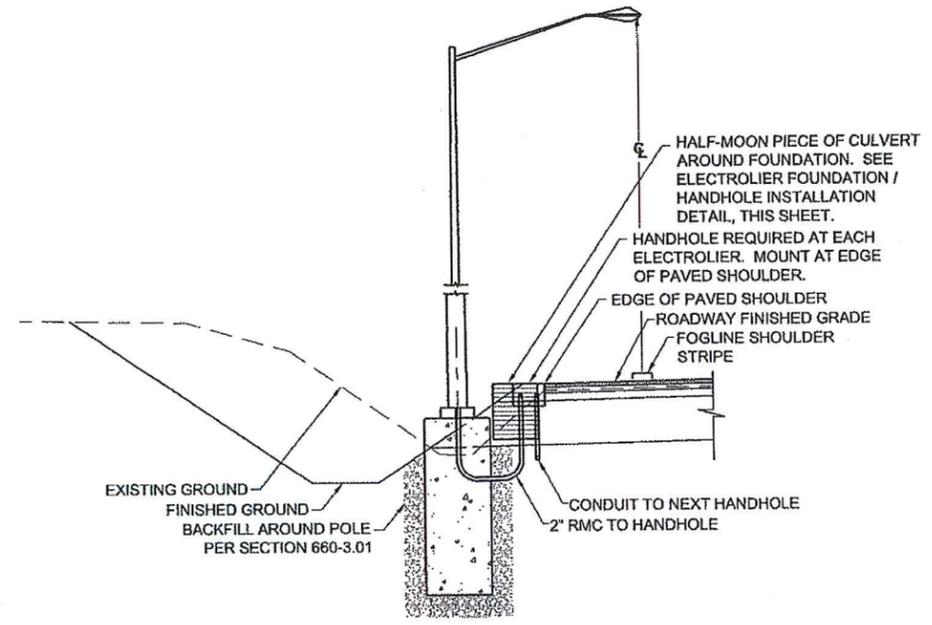
ELECTROLIER SUMMARY				
NO.	*STATION	*OFFSET	**ELEVATION	REMARKS
L1	36+67.0	34.0	58.0	PROVIDE 8 FT FOUNDATION WITH HALF-MOON CULVERT
L2	37+89.1	100.0	64.8	PROVIDE 8 FT FOUNDATION WITH HALF-MOON CULVERT
L3	38+70.0	34.0	70.3	PROVIDE 8 FT FOUNDATION WITH HALF-MOON CULVERT
L4	40+50.0	34.0	82.0	PROVIDE 8 FT FOUNDATION WITH HALF-MOON CULVERT
L5	44+22.0	60.7	108.0	
L6	45+93.5	22.0	125.5	
L7	47+52.1	22.0	136.2	
L8	50+74.3	22.0	152.7	

*STATION AND OFFSET GIVEN TO CENTER OF ELECTROLIER FOUNDATION
 **ELEVATION GIVEN TO TOP OF ELECTROLIER FOUNDATION

SUPPLEMENTAL HANDHOLE SUMMARY			
NO.	STATION	OFFSET	REMARKS
J1	38+15.0	EDGE OF PAVEMENT	MOUNT FLUSH WITH FINISHED GRADE
J2	44+50.0	EDGE OF PAVEMENT	MOUNT FLUSH WITH FINISHED GRADE
J3	49+15.0	EDGE OF PAVEMENT	MOUNT FLUSH WITH FINISHED GRADE
J4	49+20.0	EDGE OF PAVEMENT	MOUNT FLUSH WITH FINISHED GRADE
J5	49+80.0	EDGE OF PAVEMENT	MOUNT FLUSH WITH FINISHED GRADE

NOTE: SUPPLEMENTAL HANDHOLE LOCATIONS GIVEN ARE APPROXIMATE. FIELD ADJUST AS REQUIRED.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



TYPICAL SECTION FOR ELECTROLIERS L1, L3 - L4
 NO SCALE

CHECKED BY: MAUREEN A. HANSEN

DESIGNED BY: N. GEARY
 DRAWN BY: N. GEARY, R. GRANTHAM

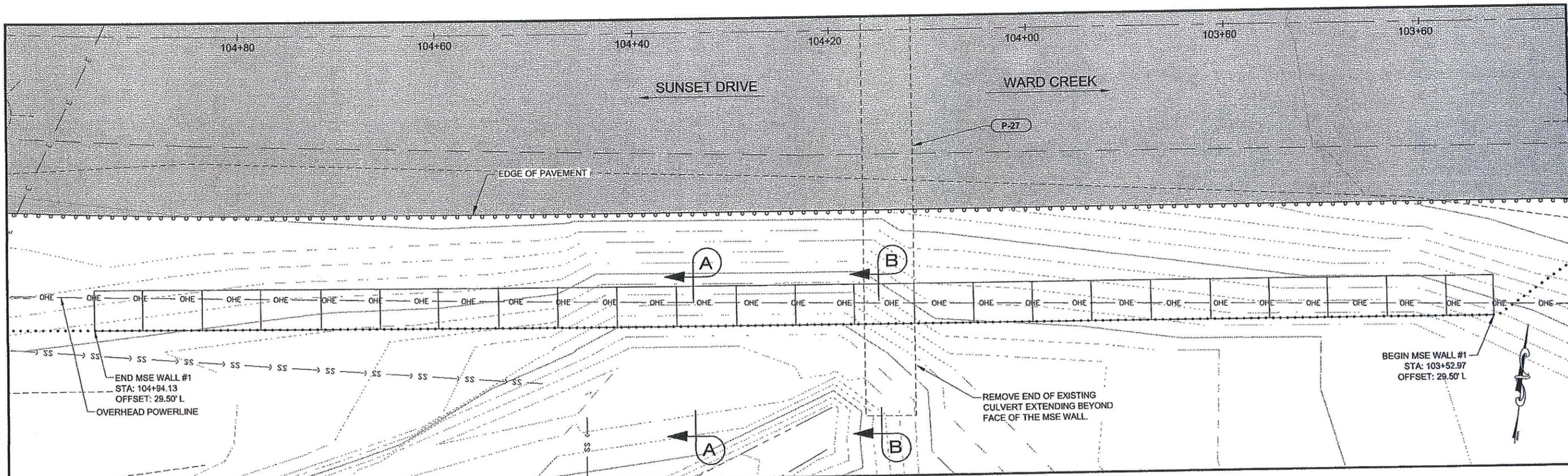
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

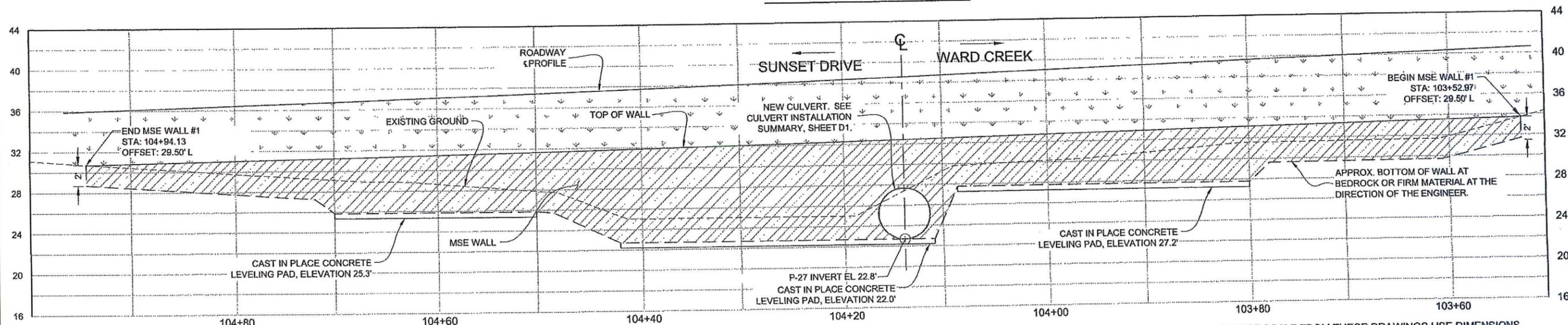
ILLUMINATION DETAILS & SUMMARIES

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
J4	100



MSE WALL #1 PLAN



MSE WALL #1 PROFILE
AREA = 785 SQ. FT.

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE: DR DATE 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

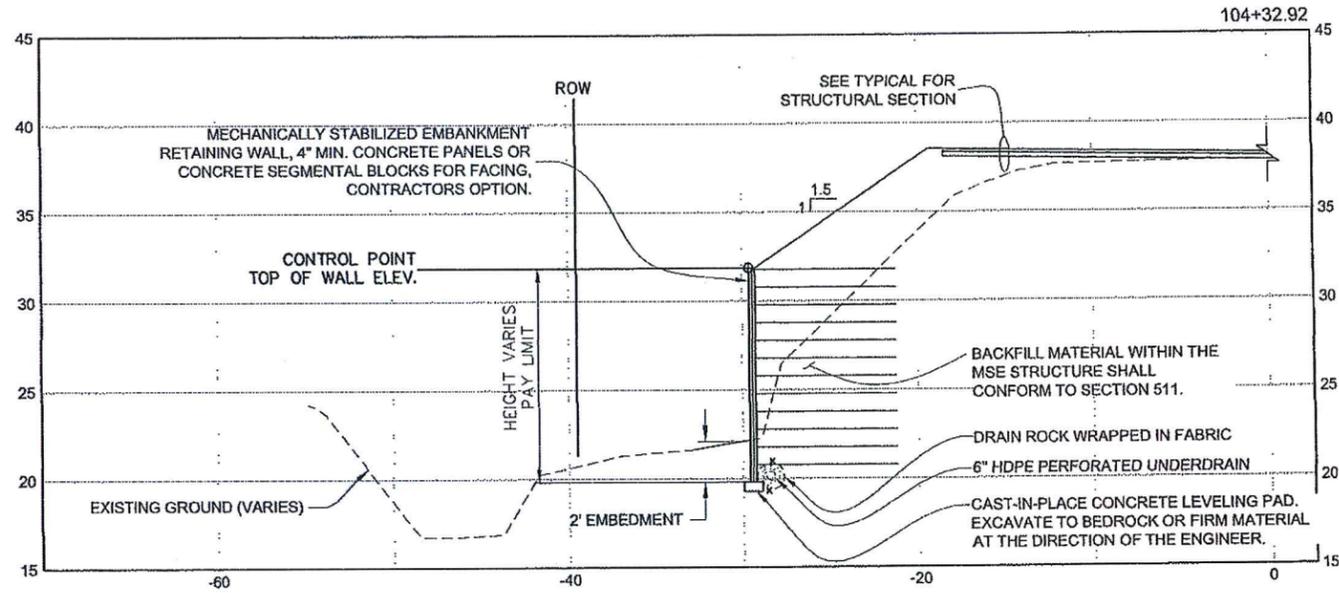
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

**RETAINING WALL
DETAILS**

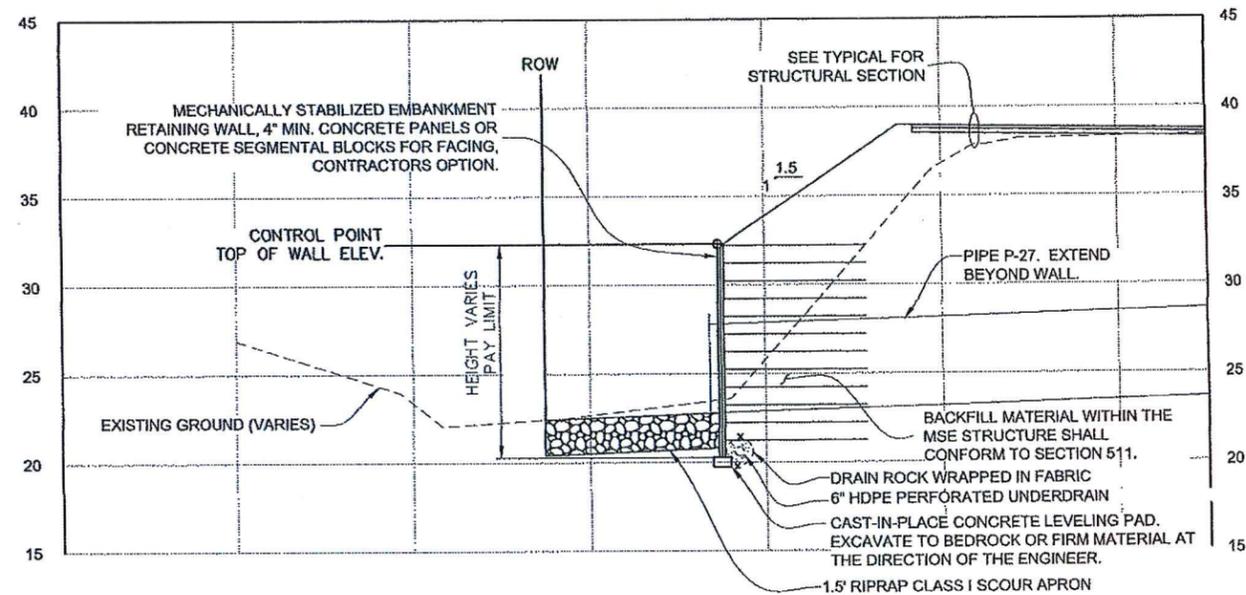
DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM

PATH: Q:\KTN\68973\PLANSET\68973_M1-3_RET WALL DT.LOWG
TAB: M1 Tuesday, January 29, 2013 8:53:38 AM GRANTHAM, RICK L (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	68973	2013	M1	100



MSE WALL #1
SECTION A-A

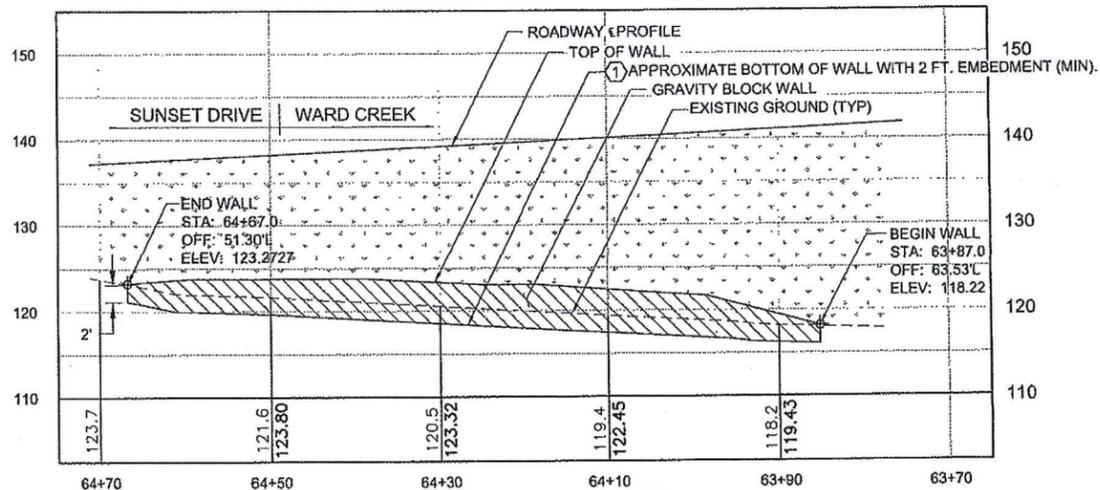


MSE WALL #1
SECTION B-B

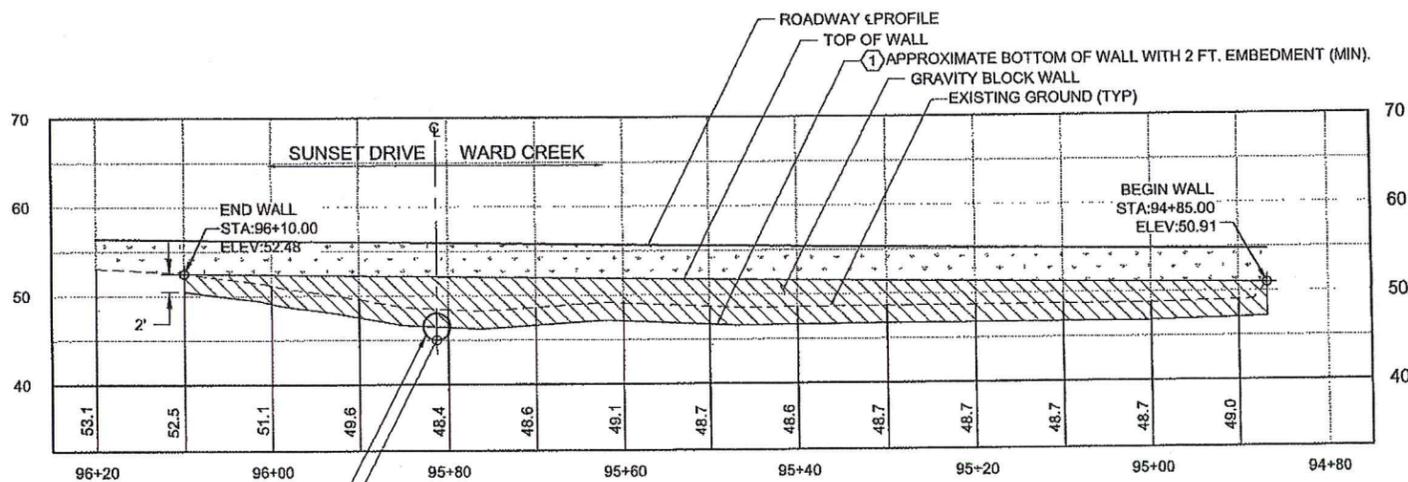
RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE DR DATE 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

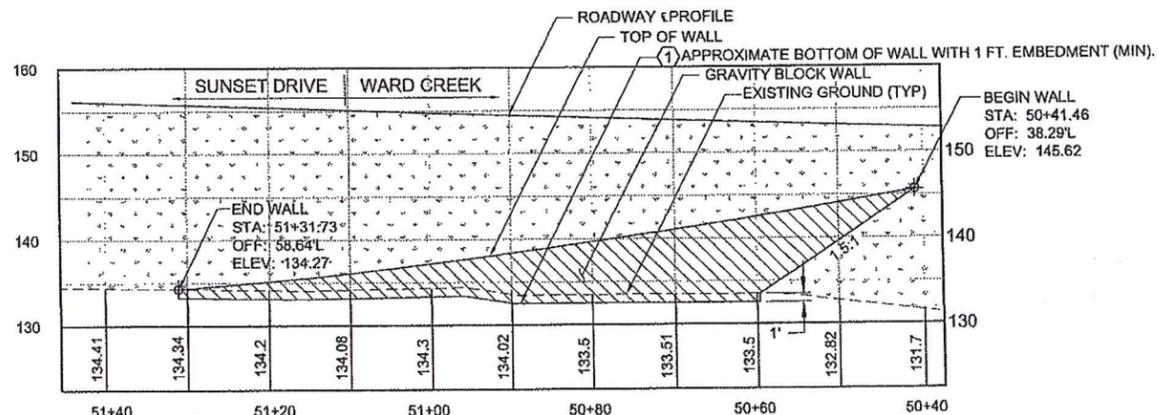
CHECKED BY: K. KARPSTEIN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: N. GEARY DRAWN BY: R. GRANTHAM		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973	
PATH: Q:\KTN\68973\PLANSET\68973_M1-3_RET WALL DTL.DWG TAB: M2 Tuesday, January 29, 2013 8:53:05 AM GRANTHAM, RICK L (DOT)		RETAINING WALL DETAILS	
PROJECT DESIGNATION 68973		YEAR 2013	SHEET NO. M2
REVISIONS NO. DATE DESCRIPTION		TOTAL SHEETS 100	



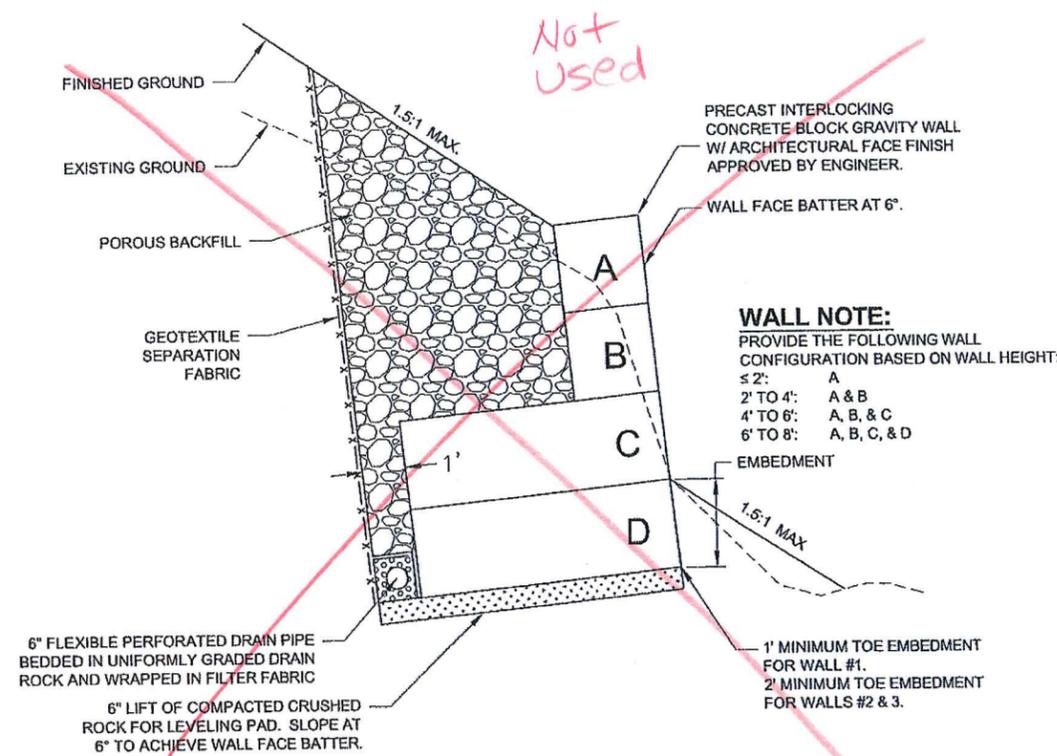
MSE GRAVITY BLOCK WALL #3 PROFILE
AREA = 375 S.F.



MSE GRAVITY BLOCK WALL #2 PROFILE
AREA = 565 S.F.

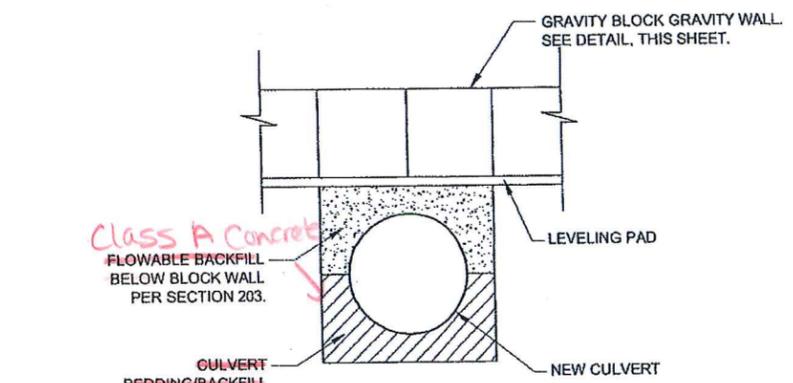


MSE GRAVITY BLOCK WALL #1 PROFILE
AREA = 425 S.F.



GRAVITY WALL TYPICAL SECTION

STA. 50+41 TO STA. 51+32
STA. 63+87 TO STA. 64+67
STA. 94+85 TO STA. 96+10



MSE GRAVITY WALL #1 CULVERT INSTALLATION DETAIL

NTS

- SHEET NOTES:
- ① MODIFY BOTTOM WALL ELEVATION AS REQUIRED TO ACCOMMODATE THE GRAVITY WALL BLOCKS AND MAINTAIN THE MINIMUM EMBEDMENT PER THE TYPICAL DETAILS.
 2. PROVIDE A UNIFORM FACE FINISH FOR ALL GRAVITY WALL BLOCKS.

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
PE: D.K. DATE: 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

RETAINING WALL DETAILS

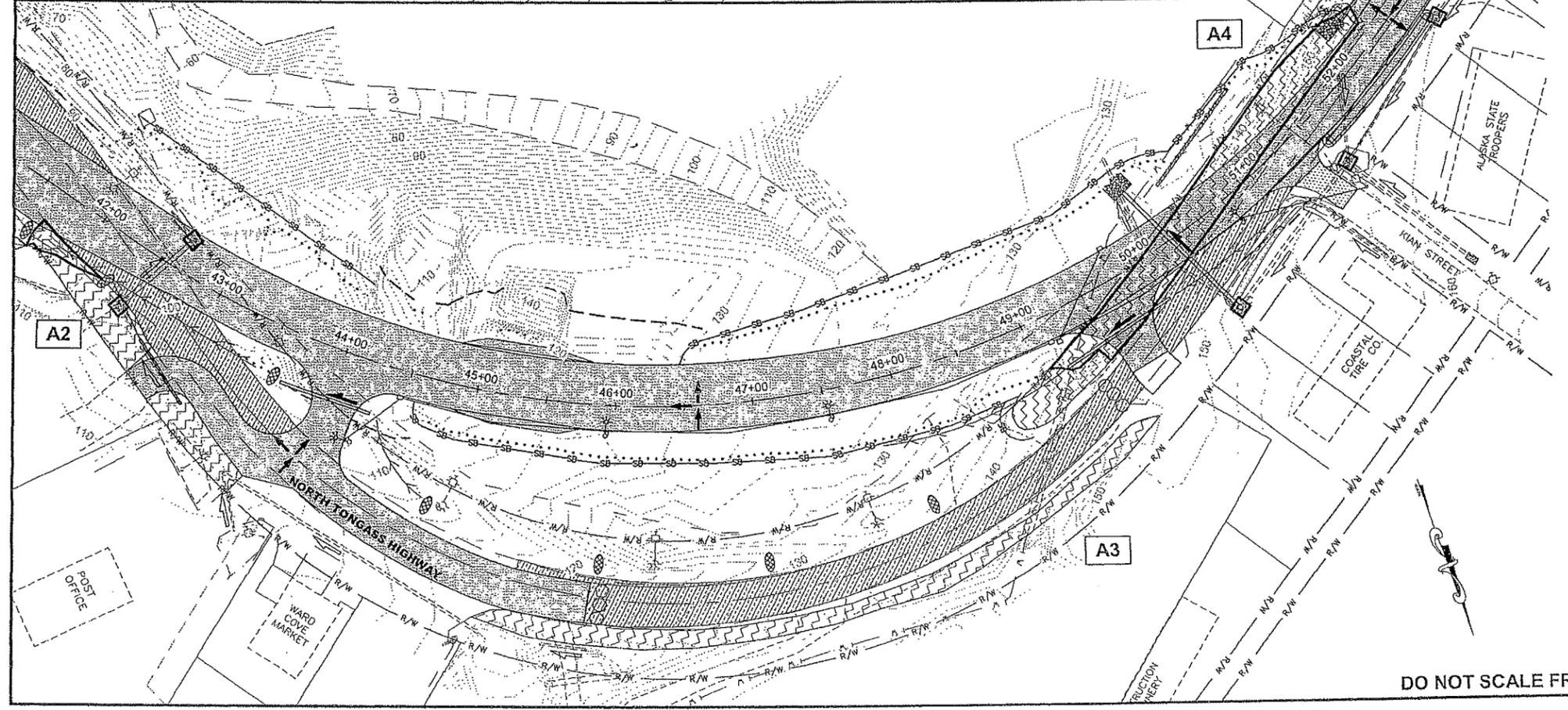
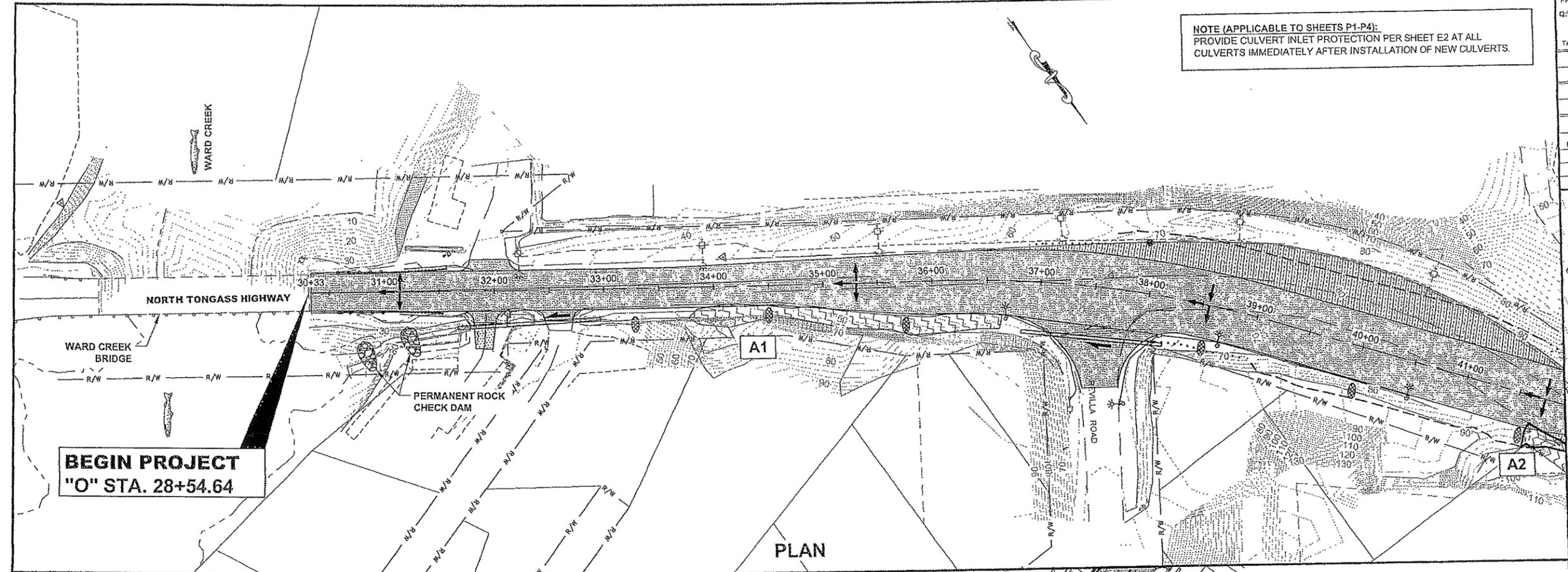
DESIGNED BY: N. GEARY
DRAWN BY: R. GRANTHAM
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TAB: M3 Friday, January 11, 2013 11:41:59 AM GRANTHAM, RICK L (DOT)

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68973	2013	M3	100

NOTE (APPLICABLE TO SHEETS P1-P4):
 PROVIDE CULVERT INLET PROTECTION PER SHEET E2 AT ALL
 CULVERTS IMMEDIATELY AFTER INSTALLATION OF NEW CULVERTS.

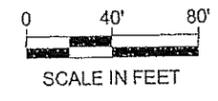
PATH:
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 GRANHAM, RICK L (DOT)
 TAB: P1 Wednesday, January 16, 2013 10:34
 ADDENDUM NUMBER
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



LEGEND

- PROFILE FLOW
- SILT FENCE OR FIBER ROLL
- TEMPORARY CHECK DAM
- MHW — MHW — MEAN HIGH WATER
- EHT — EHT — EXTREME HIGH TIDE
- ▨ INVASIVE PLANT AREA
- SURFACE FLOW
- PROPOSED CULVERT FLOW
- EXISTING CULVERT FLOW
- FISH STREAM
- ▨ WETLAND AREA
- ▨ RIPRAP
- ▨ SLOPE/SPILLWAY STABILIZATION
- ▨ INLET PROTECTION
- ▨ PERMANENT SEEDING
- ▨ INVASIVE AREA LABEL. SEE TABLE, SHEET P6



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: A. ZIMMERMAN

DESIGNED BY: A. ZIMMERMAN
 DRAWN BY: R. GRANHAM

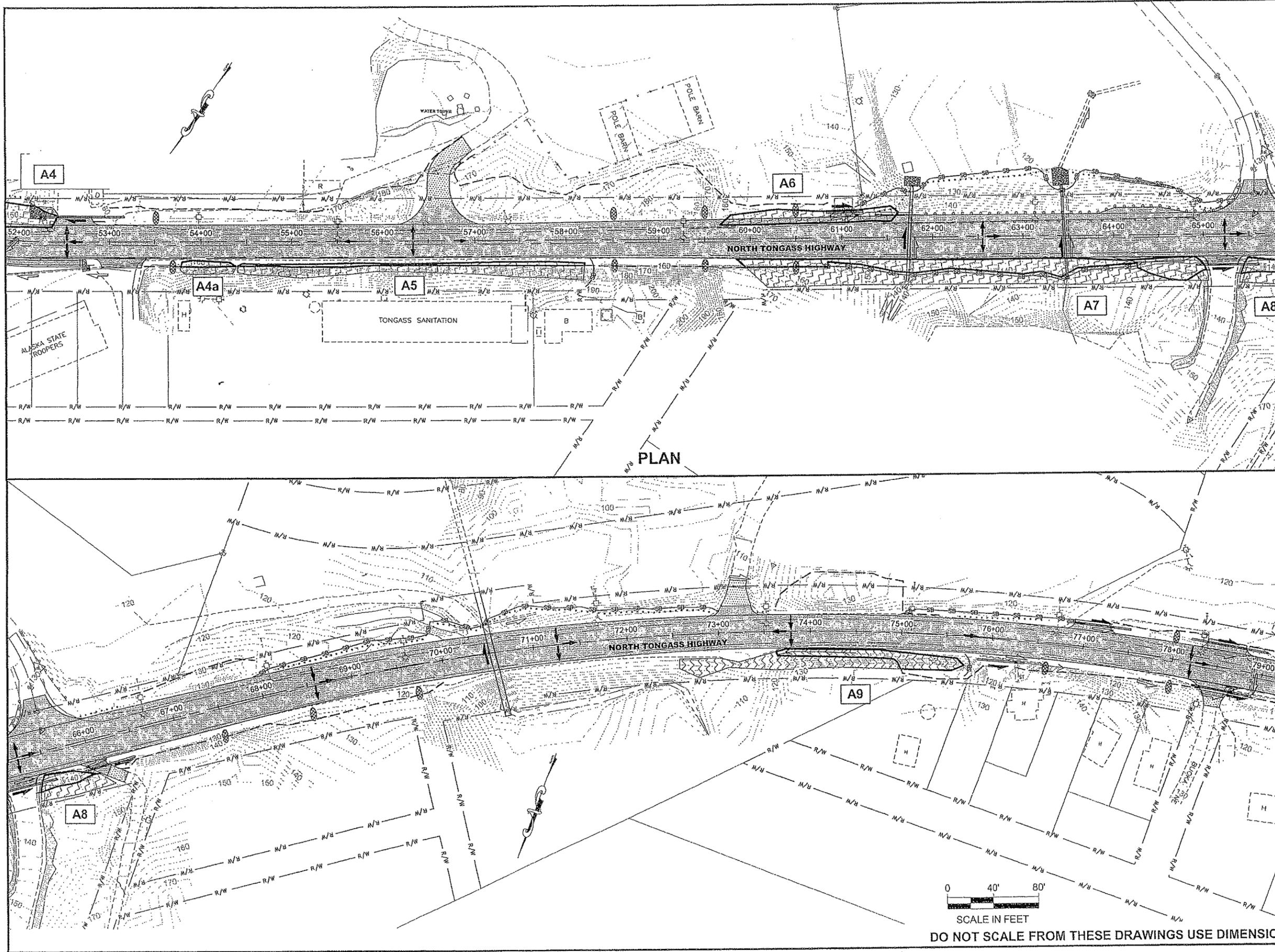
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

**EROSION & SEDIMENT
 CONTROL PLANS**

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P1	100



PATH:
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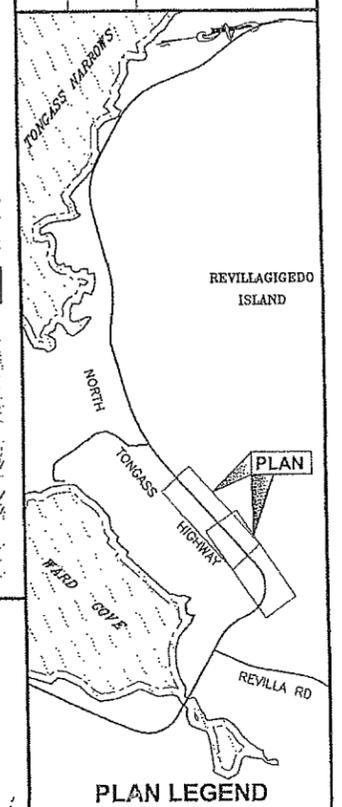
GRANTHAM, RICK L (DOT)
TAB: P2 Tuesday, January 15, 2013 3:56:38 P

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: A. ZIMMERMAN

DESIGNED BY: A. ZIMMERMAN

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

**EROSION & SEDIMENT
CONTROL PLANS**

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P2	100

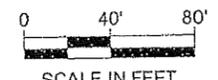
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SCALE IN FEET

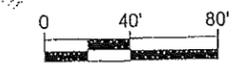
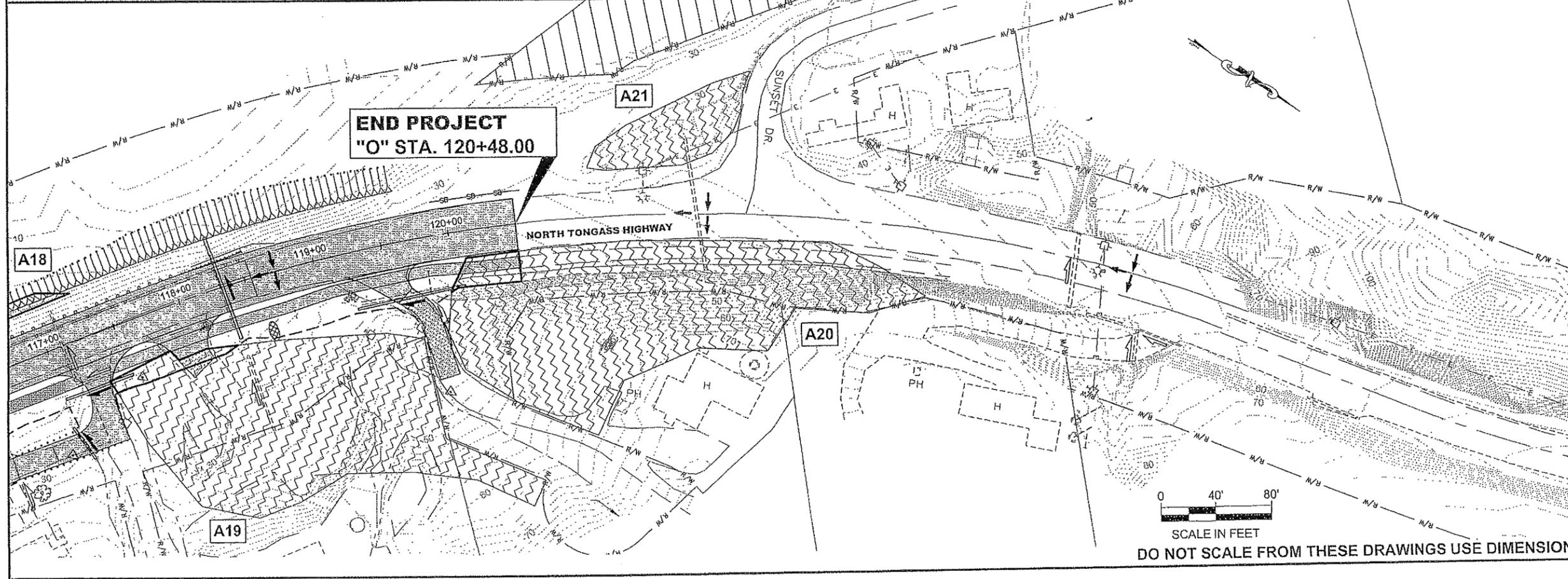
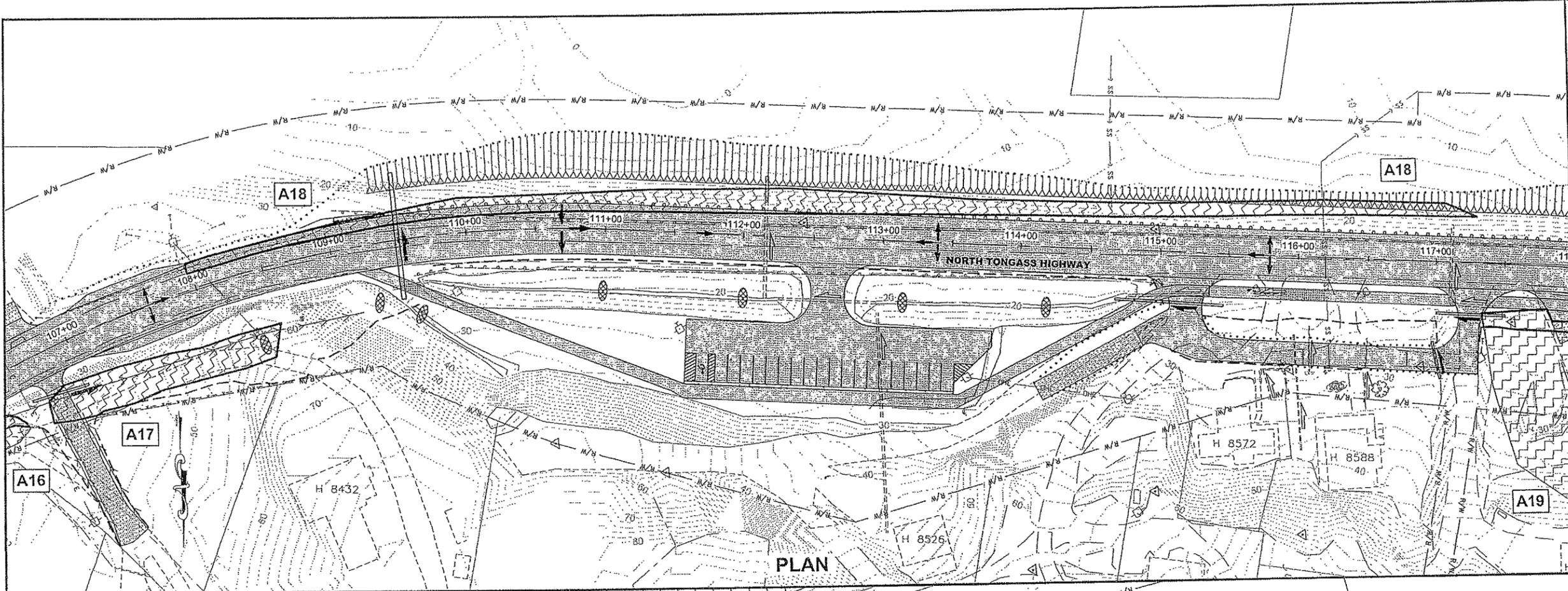
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: Q:\KTN68973\PLANSET\68973_P1-5_ESCP(REALIGN)		
GRANTHAM, RICK L (DOT)		
TAB: P3 Tuesday, January 15, 2013 3:57:12 P		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
CHECKED BY: A. ZIMMERMAN		
DESIGNED BY: A. ZIMMERMAN		
DRAWN BY: R. GRANTHAM		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION		
KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973		
EROSION & SEDIMENT CONTROL PLANS		
PROJECT DESIGNATION		
68973		
STATE	YEAR	
ALASKA	2013	
SHEET NUMBER	TOTAL SHEETS	
P3	100	



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



SCALE IN FEET
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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GRANTHAM, RICK L (DOT)
TAB: P4 Tuesday, January 15, 2013 3:58:53 P
ADDENDUM NUMBER
ATTACHMENT NUMBER
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



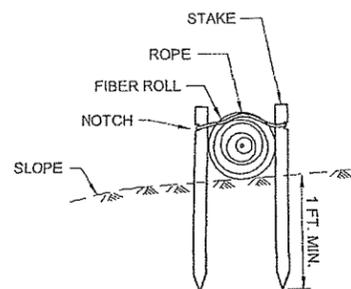
PLAN LEGEND
CHECKED BY: A. ZIMMERMAN

DESIGNED BY: A. ZIMMERMAN
DRAWN BY: R. GRANTHAM
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

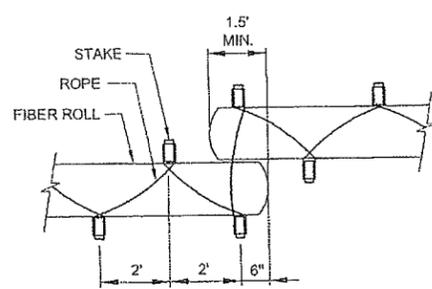
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

**EROSION & SEDIMENT
CONTROL PLANS**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P4	100

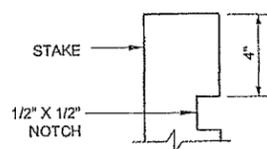


SECTION



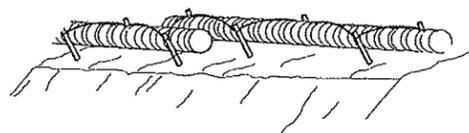
PLAN

FIBER ROLL (TYPE 2)



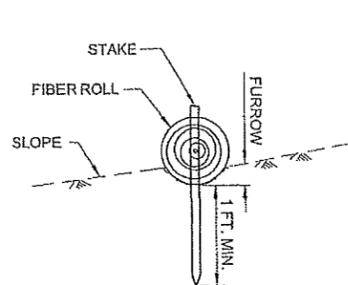
STAKE

TYPICAL FIBER ROLL DETAIL



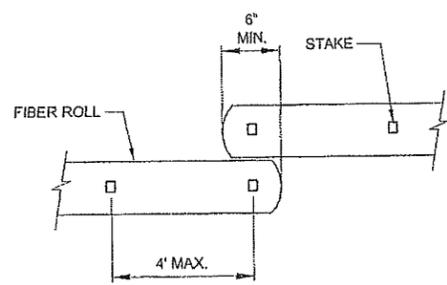
PERSPECTIVE

FIBER ROLL (TYPE 2)

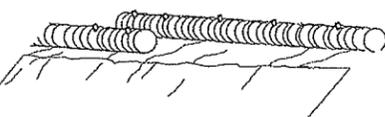


SECTION

FIBER ROLL (TYPE 1)



PLAN

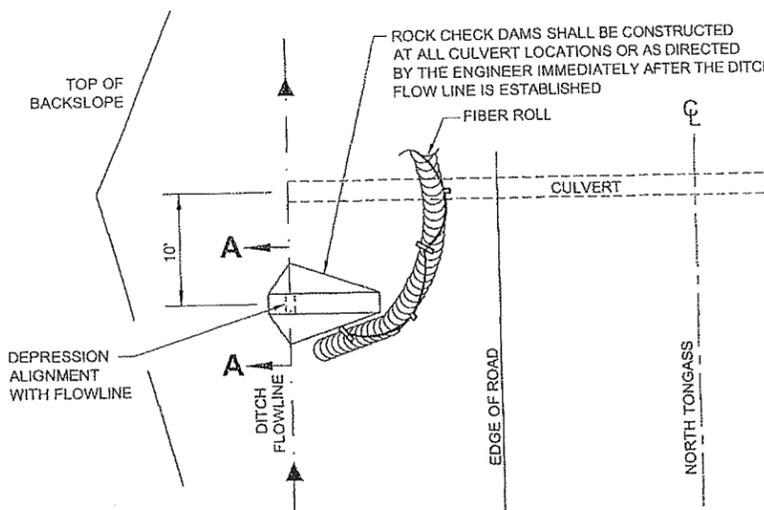


PERSPECTIVE

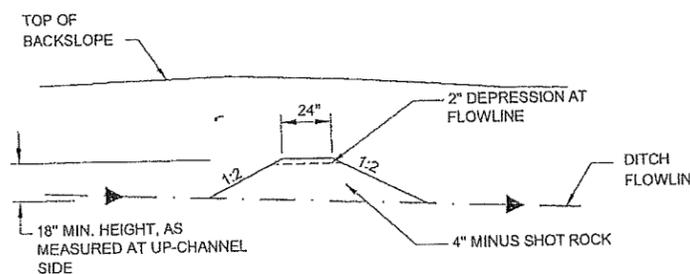
FIBER ROLL (TYPE 1)

GENERAL NOTES:

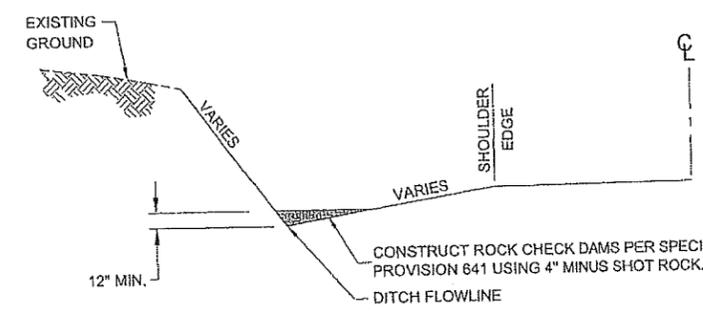
- REFER TO APPENDIX B OF THE SPECIAL PROVISIONS FOR THE ENVIRONMENTAL COMMITMENTS.
- EROSION CONTROL MEASURES WILL BE EVALUATED BY THE ENGINEER BASED ON EFFECTIVENESS. THOSE FOUND INEFFECTIVE MUST BE REPLACED OR REPAIRED WITHIN 24 HOURS FOLLOWING NOTIFICATION.
- THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO SECTION 641 OF THE SPECS.
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING EARTH DISTURBING ACTIVITIES OR AS SPECIFIED ELSEWHERE.
- THE LOCATION AND LENGTH OF FIBER ROLLS IS DEPENDENT ON THE CONDITIONS OF THE SITE.
- ANCHOR AS NECESSARY TO FIRMLY SECURE FIBER ROLLS AND PROVIDE CONTINUOUS CONTACT WITH THE SURFACE ON WHICH IT IS INSTALLED.
- LAP ADJACENT FIBER ROLLS TO PREVENT SEDIMENT BYPASS.



PLAN

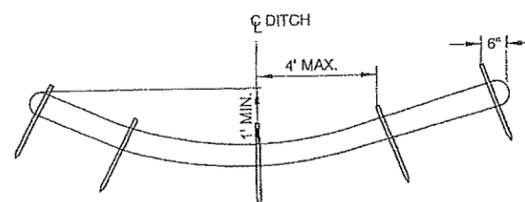


SECTION A-A

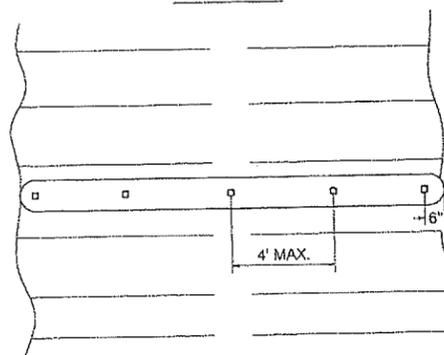


ELEVATION

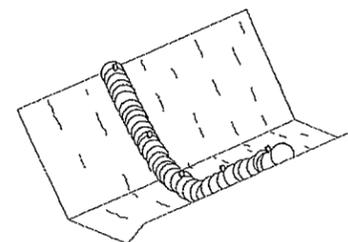
ROCK CHECK DAM DETAILS



SECTION



PLAN



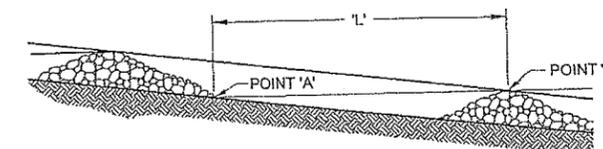
PERSPECTIVE

FIBER ROLL DITCH CHECK

NOTES

- FURROW AND STAKE EMBEDMENT ARE THE SAME AS FIBER ROLL (TYPE 1).
- START STAKE INSTALLATION WITH STAKE IN THE CENTER AND STAKES 6" FROM EACH END. EQUALLY SPACE REMAINING STAKES A MAXIMUM OF 4' O.C.

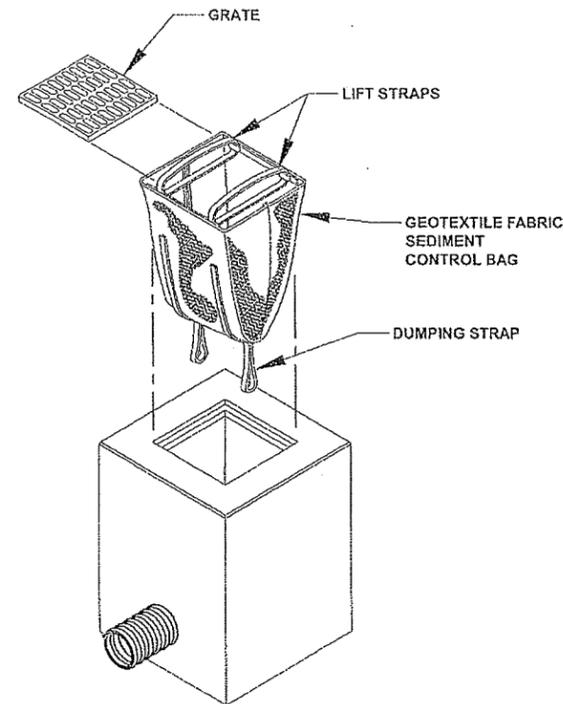
"L" = THE DISTANCE SUCH THAT POINTS 'A' AND 'S' ARE OF EQUAL ELEVATION



SPACING BETWEEN CHECK DAMS

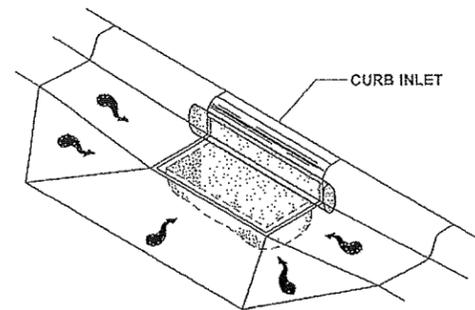
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: A. ZIMMERMAN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION			
DESIGNED BY: A. ZIMMERMAN		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973			
DRAWN BY: R. GRANTHAM		EROSION & SEDIMENT CONTROL PLANS			
PATH: Q:\KTN\68973\PLANS\SET\68973_P1-5_ESCP(REALIGN).DWG		GEARY, NATE (DOT)			
TAB: P5		Monday, January 14, 2013 8:18:32 AM		YEAR	TOTAL SHEETS
REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION	68973	2013	100
				P5	



INLET PROTECTION DETAIL

N.T.S.



INLET PROTECTION DETAIL

N.T.S.

INLET PROTECTION INSTALLATION AND MAINTENANCE

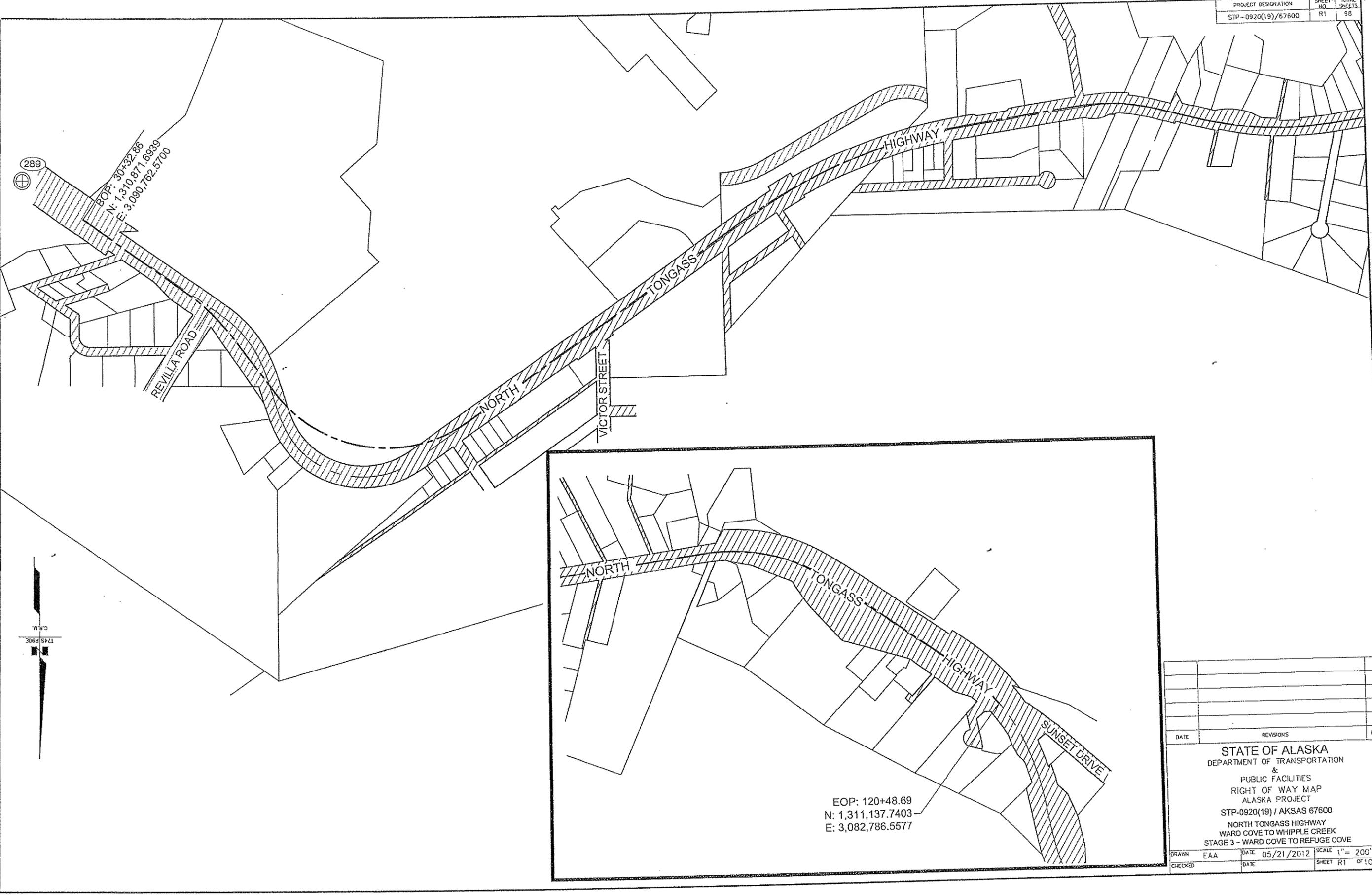
1. **INSTALLATION:** REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE SEDIMENT BAG SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.
2. **MAINTENANCE:** REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE SEDIMENT BAG. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.
3. **INSTALL INLET PROTECTION AT LOCATIONS PRIOR TO EARTH DISTURBING ACTIVITIES AND COLD PLANING.**

203(20) CONTROL OF INVASIVE PLANTS					
SITE NO.	DISTURBED AREAS		AREA (SQ FT)	PERCENT COVER	COVER CLASS
	BEGIN	END			
TANSY RAGWORT					
A1	-	-	0	30	H
A2	41+62 RT	42+22 RT	580	20	M
REED CANARY GRASS					
A4	48+71 RT	52+43 LT	8,702	80	M
A4a	53+78 RT	54+38 RT	314	2	L
A5	54+40 RT	58+19 RT	1,111	10	M
A6	58+67 LT	61+63 LT	2,505	80	H
A7	59+85 RT	65+03 RT	1,069	10	M
A8	65+41 RT	66+04 RT	665	10	M
A9	73+63 RT	75+70 RT	2,095	30	H
A13	88+22 RT	91+25 RT	5,166	30	H
A14				100	H
OXEYE DAISY					
A3	121+14	131+77	0	50	H
A15	126+04	137+88	0	100	H
A17	106+65 RT	108+53 RT	4,162	3	L
A18	107+97 LT	117+29 LT	10,719	10	M
A21	140+74	156+23	0	10	M
ORANGE HAWKWEED					
A11	85+13 LT	86+68 LT	3,315	15	M
A16	105+70 RT	106+47 RT	610	3	L
JAPANESE KNOT WEED					
A10	81+42 LT	81+76 LT	399	AROUND	POWER POLE
A12	87+08 LT	87+25 LT	39	100	H
A19	118+32 RT	118+32 RT	882	100	H
A20	119+96 RT	120+48 RT	136	100	H

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

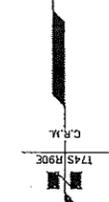
CHECKED BY: A. ZIMMERMAN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: A. ZIMMERMAN		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973 EROSION & SEDIMENT CONTROL PLANS	
DRAWN BY: R. GRANTHAM			
PATH: Q:\KTN\68973\PLANSET\68973_P1-5_ESCP(REALIGN).DWG		GRANTHAM, RICK L (DOT)	
TAB: P6 Friday, January 11, 2013 11:15:54 AM			
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	YEAR
			2013
		68973	P6
			100

PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
STP-0920(19)/67600	R1	98

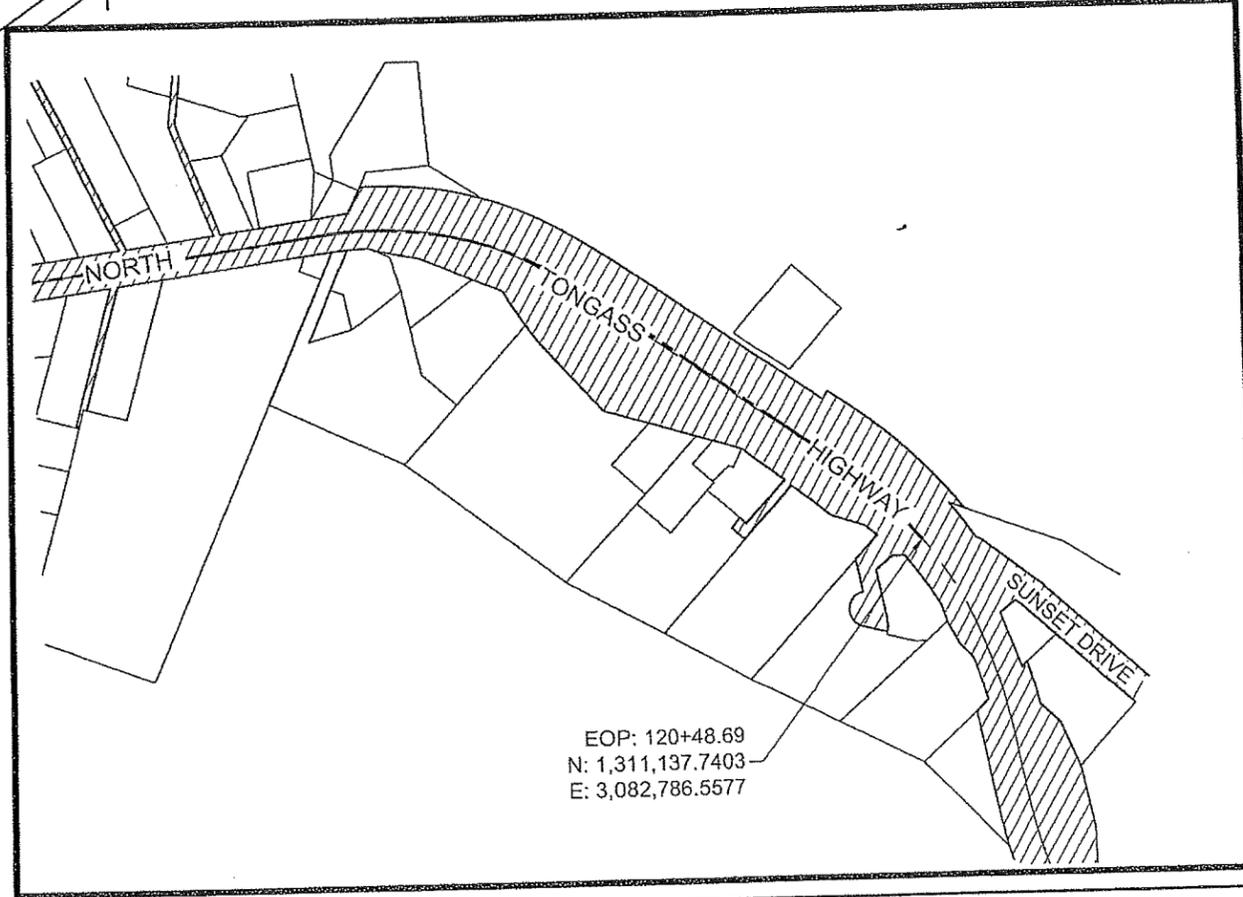


BOP: 30+32.86
 N: 1,310,871.6939
 E: 3,090,762.5700

289



C:\K\IN\68873\PLANSET\68873_R1-R11_ROW.DWG

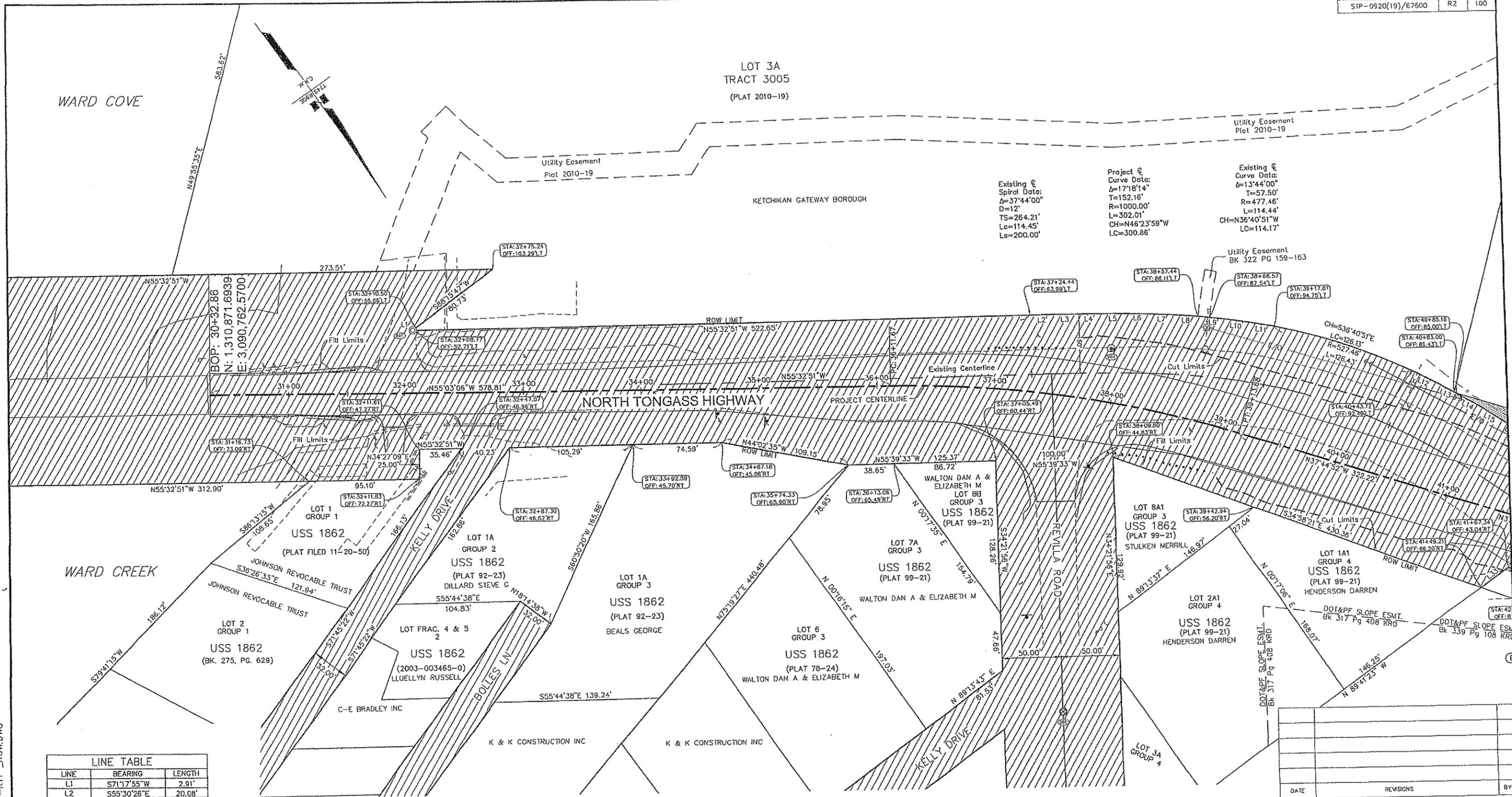


EOP: 120+48.69
 N: 1,311,137.7403
 E: 3,082,786.5577

REVISIONS		BY
DATE		

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

DRAWN	EAA	DATE	05/21/2012	SCALE	1" = 200'
CHECKED		DATE		SHEET	R1 OF 100



Existing & Spiral Data:
 $\Delta=37'44''00''$
 $D=12'$
 $TS=264.21'$
 $Lc=114.45'$
 $Ls=200.00'$

Project & Curve Data:
 $\Delta=17'18''14''$
 $T=152.16'$
 $R=1000.00'$
 $L=302.01'$
 $LC=300.86'$

Existing & Curve Data:
 $\Delta=13'44''00''$
 $T=57.50'$
 $R=477.46'$
 $L=114.44'$
 $CH=N36'40''51''W$
 $LC=114.17'$

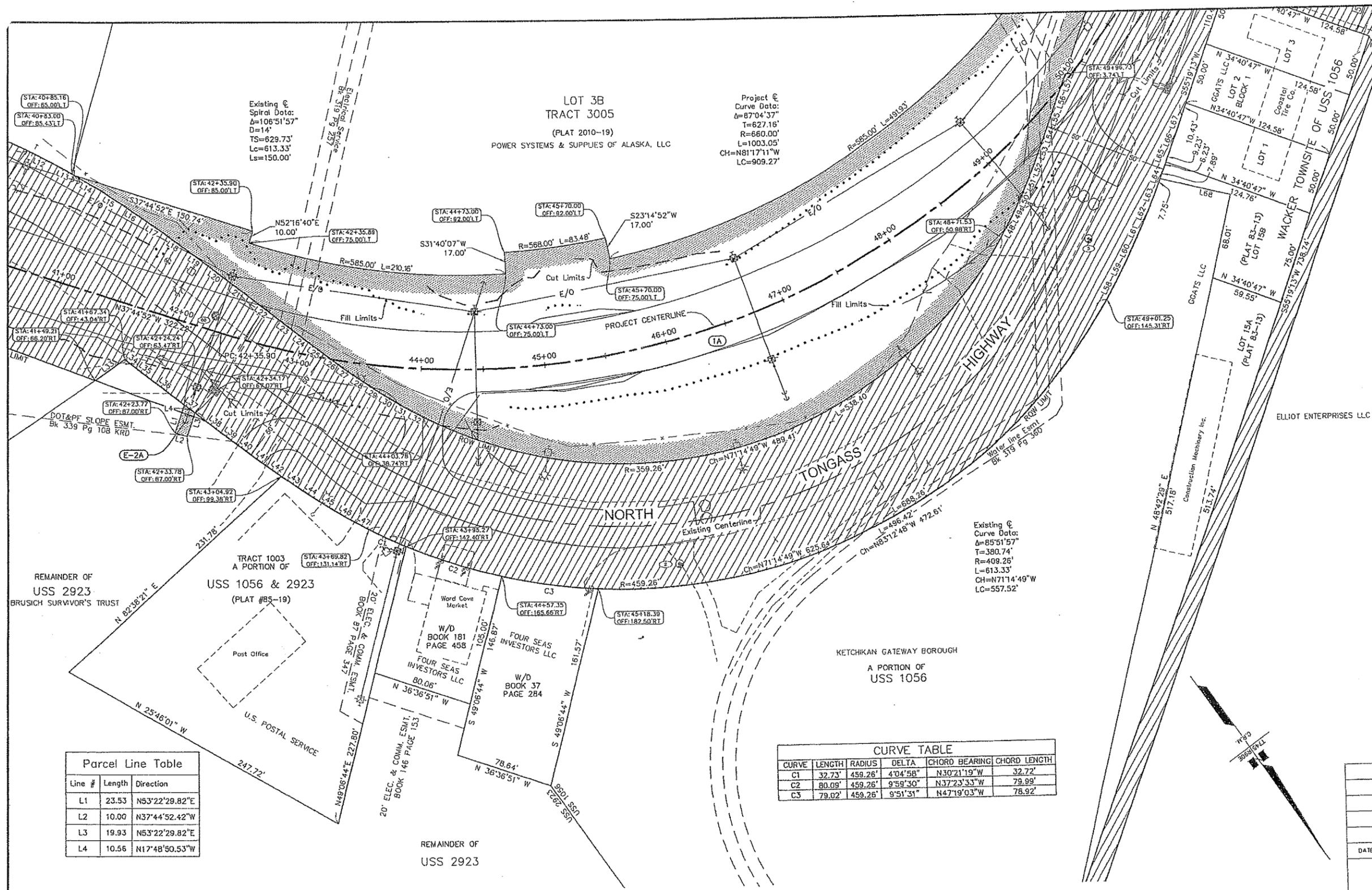
LINE	BEARING	LENGTH
L1	S71°17'55"W	2.91'
L2	S55°30'28"E	20.08'
L3	S55°16'03"E	20.32'
L4	S54°47'15"E	20.52'
L5	S54°04'03"E	20.73'
L6	S53°06'27"E	20.94'
L7	S51°54'27"E	21.15'
L8	S50°28'03"E	21.36'
L9	S48°47'15"E	21.57'
L10	S46°52'04"E	21.77'
L11	S44°42'25"E	22.01'
L12	S28°39'16"E	22.01'
L13	S26°29'37"E	21.77'
L14	S24°34'27"E	21.57'
L15	S22°53'39"E	21.36'

DATE	REVISIONS	BY

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

DRAWN	EAA	DATE	05/21/2012	SCALE	1" = 40'
CHECKED		DATE		SHEET	R2 OF 100

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LINE	BEARING	LENGTH
L12	S28°39'16"E	22.01'
L13	S26°29'37"E	21.77'
L14	S24°34'27"E	21.57'
L15	S22°53'39"E	21.36'
L16	S21°27'15"E	21.15'
L17	S20°15'15"E	20.94'
L18	S19°17'39"E	20.73'
L19	S18°34'27"E	20.52'
L20	S18°05'38"E	20.32'
L21	S17°51'15"E	20.08'
L22	N17°48'51"W	33.10'
L23	S17°50'56"E	14.93'
L24	S18°03'33"E	14.72'
L25	S18°28'45"E	14.54'
L26	S19°06'33"E	14.36'
L27	S19°56'57"E	14.18'
L28	S20°59'57"E	13.99'
L29	S22°15'33"E	13.81'
L30	S23°43'45"E	13.63'
L31	S25°24'34"E	13.45'
L32	S27°17'54"E	13.24'
L33	S29°41'23"E	29.42'
L34	S18°23'24"E	7.53'
L35	S18°05'39"E	19.68'
L36	S17°51'14"E	19.92'
L37	N17°48'51"W	33.10'
L38	N17°50'57"W	15.07'
L39	N18°03'32"W	15.28'
L40	N18°28'45"W	15.46'
L41	N19°06'33"W	15.64'
L42	N19°56'57"W	15.10'
L43	N20°58'23"W	16.73'
L44	N22°15'33"W	16.19'
L45	N23°43'45"W	16.37'
L46	N25°24'31"W	16.55'
L47	N27°17'56"W	16.76'
L48	N29°48'17"E	13.24'
L49	N32°54'56"E	13.45'
L50	N36°14'07"E	13.63'
L51	N39°45'55"E	13.81'
L52	N43°30'19"E	13.99'
L53	N47°27'19"E	14.18'
L54	N51°36'55"E	14.36'
L55	N55°59'07"E	14.54'
L56	N60°36'55"E	14.72'
L57	N65°21'19"E	14.93'
L58	N69°48'20"E	16.76'
L59	N74°54'53"E	16.55'
L60	N80°14'07"E	16.37'
L61	N85°45'55"E	16.19'
L62	N90°30'19"E	16.01'
L63	N95°27'19"E	15.82'
L64	N100°36'55"E	15.64'
L65	N105°59'07"E	15.46'
L66	N111°33'54"E	15.28'
L67	N117°21'19"E	15.07'

CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	32.73'	459.26'	4°04'58"	N30°21'19"W	32.72'
C2	80.09'	459.26'	9°59'30"	N37°23'33"W	79.99'
C3	79.02'	459.26'	9°51'31"	N47°19'03"W	78.92'

Line #	Length	Direction
L1	23.53	N53°22'29.82"E
L2	10.00	N37°44'52.42"W
L3	19.93	N53°22'29.82"E
L4	10.56	N17°48'50.53"W

PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
1A	Power Systems and Supplies of Alaska LLC	2.49 Ac.	191.41 Ac.	xxx-yyy

EASEMENT	OWNER	AREA	PURPOSE	RECORDING DATA
E-2A	Brusich Survivor's Trust	217 S.F.	Utility Anchor	XX-XX

DATE: _____ REVISIONS: _____ BY: _____

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

DRAWN: EAA DATE: 05/21/2012 SCALE: 1"=40'
 CHECKED: _____ DATE: _____ SHEET R3 OF 100

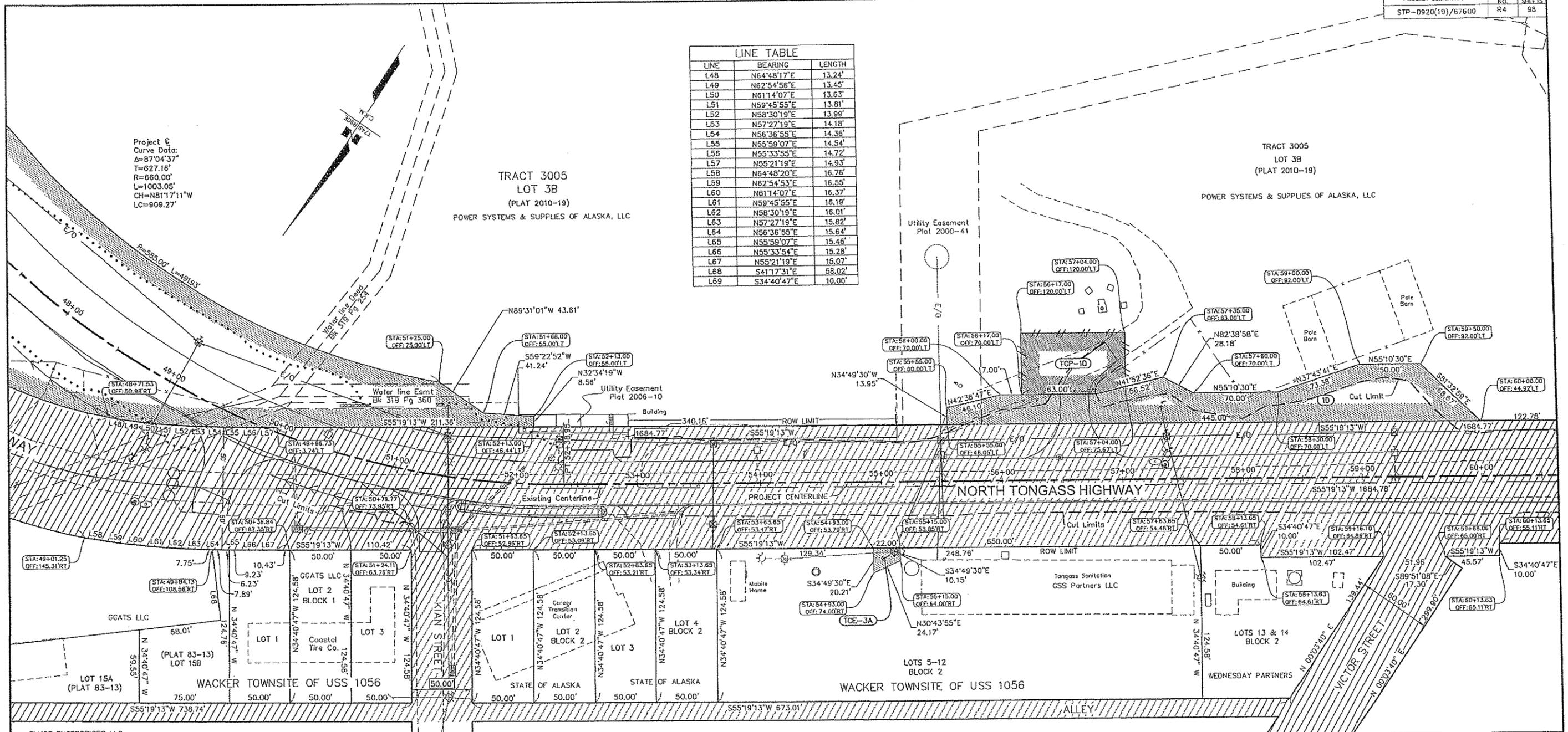
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LINE	BEARING	LENGTH
L48	N64°48'17"E	13.24'
L49	N62°54'56"E	13.45'
L50	N61°14'07"E	13.63'
L51	N59°45'55"E	13.81'
L52	N58°30'19"E	13.99'
L53	N57°27'19"E	14.18'
L54	N56°36'55"E	14.36'
L55	N55°59'07"E	14.54'
L56	N55°33'54"E	14.72'
L57	N55°21'19"E	14.93'
L58	N64°48'20"E	16.28'
L59	N62°54'53"E	16.55'
L60	N61°14'07"E	16.37'
L61	N59°45'55"E	16.19'
L62	N58°30'19"E	16.01'
L63	N57°27'19"E	15.82'
L64	N56°36'55"E	15.64'
L65	N55°59'07"E	15.46'
L66	N55°33'54"E	15.28'
L67	N55°21'19"E	15.07'
L68	S41°17'31"W	58.02'
L69	S34°40'47"E	10.00'

Project @
Curve Data:
Δ=87°04'37"
T=627.16'
R=660.00'
L=1003.05'
CH=N81°17'11"W
LC=909.27'

TRACT 3005
LOT 3B
(PLAT 2010-19)
POWER SYSTEMS & SUPPLIES OF ALASKA, LLC

TRACT 3005
LOT 3B
(PLAT 2010-19)
POWER SYSTEMS & SUPPLIES OF ALASKA, LLC



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TEMPORARY CONSTRUCTION EASEMENT			
TCE NO.	OWNER	AREA	PURPOSE
TCE-3A	GSS Partners LLC	334 S.F.	Utility Pole and Anchor

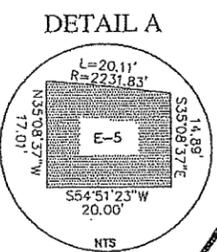
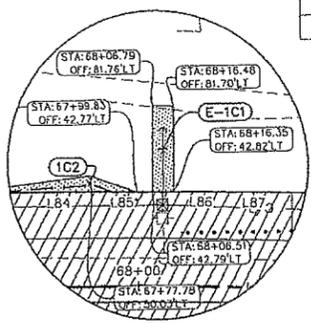
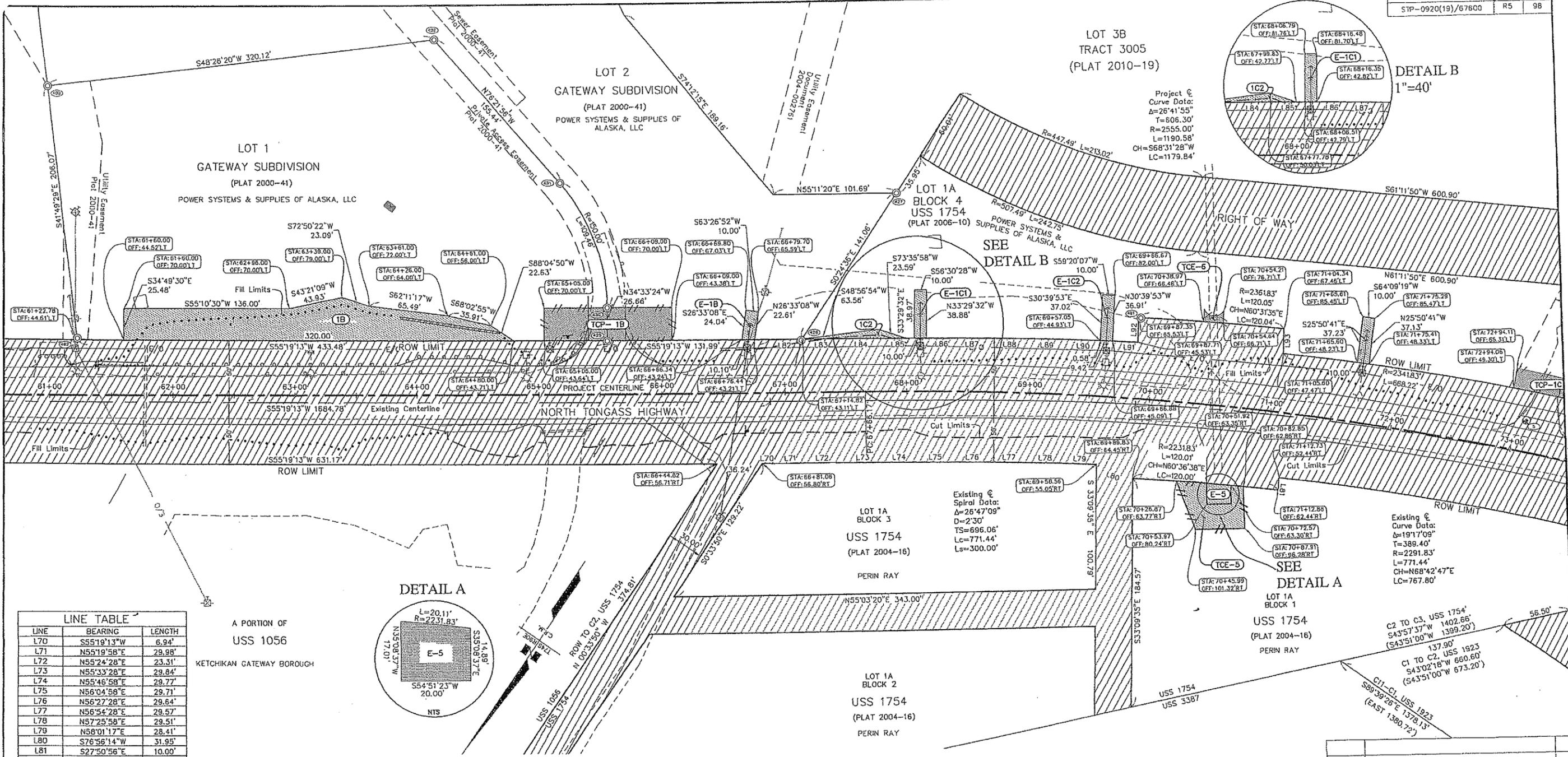
PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
1D	Power Systems & Supplies of Alaska, LLC	0.30 Ac.	193.60 Ac.	XX-XX

TEMPORARY CONSTRUCTION PERMIT			
TCP NO.	OWNER	AREA	PURPOSE
TCP-10	Ketchikan Gateway Borough	4,282 S.F.	Driveway Access Construction

DATE	REVISIONS	BY
4/25/12	Changed E-3A to TCE-3A	J.P.
4/11/12	Revised Area E-3A	J.P.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

DRAWN	EAA	DATE	05/21/2012	SCALE	1" = 40'
CHECKED		DATE		SHEET	R4 of 100



LINE TABLE

LINE	BEARING	LENGTH
L70	S55°10'13"W	6.94'
L71	N55°19'58"E	29.98'
L72	N55°24'28"E	23.31'
L73	N55°33'28"E	29.84'
L74	N55°46'58"E	29.77'
L75	N56°04'58"E	29.71'
L76	N56°27'28"E	29.64'
L77	N56°54'28"E	29.57'
L78	N57°25'58"E	29.51'
L79	N58°01'17"E	28.41'
L80	S76°56'14"W	31.95'
L81	S27°50'56"E	10.00'
L82	N55°19'49"E	24.57'
L83	N55°23'52"E	35.56'
L84	N55°33'28"E	30.16'
L85	N55°46'58"E	30.23'
L86	N56°04'58"E	30.29'
L87	N56°27'28"E	30.36'
L88	N56°54'28"E	30.43'
L89	N57°25'58"E	30.49'
L90	N58°01'58"E	30.55'
L91	N58°42'28"E	30.63'
L92	N30°55'47"W	20.00'
L93	N30°55'47"W	20.03'

EASEMENT	OWNER	AREA	PURPOSE	RECORDING DATA
E-1B	Power Systems & Supplies of Alaska, LLC	233 S.F.	Utility Guy Anchor	XX-XX
E-1C1	Power Systems & Supplies of Alaska, LLC	389 S.F.	Utility Guy Anchor	XX-XX
E-1C2	Power Systems & Supplies of Alaska, LLC	372 S.F.	Utility Guy Anchor	XX-XX
E-5	Ray Perin	319 S.F.	Culvert for Drainage	XX-XX
E-1C2	Power Systems & Supplies of Alaska, LLC	370 S.F.	Utility Guy Anchor	XX-XX

PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
1B	Power Systems & Supplies of Alaska, LLC	7,735 S.F.	83,446 S.F.	XX-XX
1C2	Power Systems & Supplies of Alaska, LLC	308 S.F.	104,110 S.F.	

TEMPORARY CONSTRUCTION PERMIT

TCP NO.	OWNER	AREA	PURPOSE
TCP-1B	Power Systems & Supplies of Alaska, LLC	2,755 S.F.	Driveway Access Construction

TEMPORARY CONSTRUCTION EASEMENT

TCE NO.	OWNER	AREA	PURPOSE
TCE-6	Power Systems & Supplies of Alaska, LLC	103 S.F.	Drainage Construction
TCE-5	Ray Perin	1,402 S.F.	Access for Installing Culvert

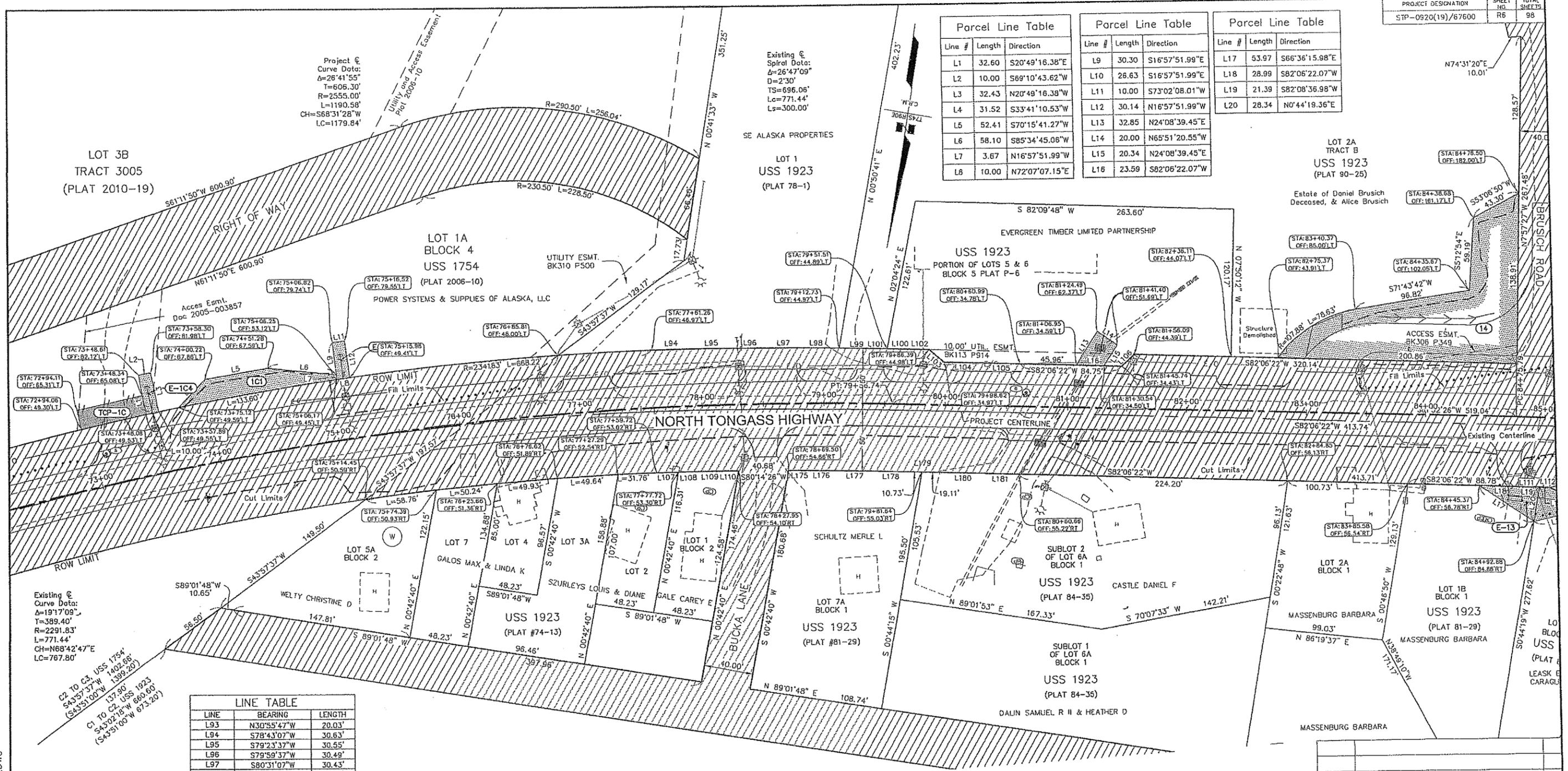
DATE: _____ REVISIONS: _____ BY: _____

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

DRAWN: EAA DATE: 05/21/2012 SCALE: 1" = 40'
 CHECKED: _____ DATE: _____ SHEET: R5 OF 100

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Parcel Line Table			Parcel Line Table			Parcel Line Table		
Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction
L1	32.60	S20°49'16.38"E	L9	30.30	S16°57'51.99"E	L17	53.97	S66°36'15.98"E
L2	10.00	S69°10'43.62"W	L10	26.63	S16°57'51.99"E	L18	28.99	S82°06'22.07"W
L3	32.43	N20°49'16.38"W	L11	10.00	S73°02'08.01"W	L19	21.39	S82°08'36.98"W
L4	31.52	S33°41'10.53"W	L12	30.14	N16°57'51.99"W	L20	28.34	N0°44'19.36"E
L5	52.41	S70°15'41.27"W	L13	32.85	N24°08'39.45"E			
L6	58.10	S85°34'45.06"W	L14	20.00	N65°51'20.55"W			
L7	3.67	N16°57'51.99"W	L15	20.34	N24°08'39.45"E			
L8	10.00	N72°07'07.15"E	L16	23.59	S82°06'22.07"W			



Project C
 Curve Data:
 Δ=26°41'55"
 T=606.30'
 R=2555.00'
 L=1190.58'
 CH=S68°31'28"W
 LC=1179.84'

Existing C
 Spiral Data:
 Δ=26°47'09"
 D=2°30'
 TS=696.06'
 LC=771.44'
 LS=300.00'

Existing C
 Curve Data:
 Δ=19°17'09"
 T=389.40'
 R=2291.83'
 L=771.44'
 CH=N68°42'47"E
 LC=767.80'

C2 TO C3 USS 1754
 S42°57'37"W 400.86'
 S43°51'00"W 1399.20'
 L37.90'
 C1 TO C2 USS 1923
 S43°02'18"W 660.60'
 S43°51'00"W 673.20'

LINE	BEARING	LENGTH
L93	N30°55'47"W	20.03'
L94	S78°43'07"W	30.63'
L95	S79°59'37"W	30.55'
L96	S79°59'37"W	30.49'
L97	S80°31'07"W	30.43'
L98	S80°58'49"W	32.10'
L99	N81°21'12"E	28.56'
L100	N81°38'37"E	19.33'
L101	N81°38'37"E	10.90'
L102	N81°49'25"E	15.64'
L103	S58°50'23"E	15.81'
L104	N82°00'51"E	32.35'
L105	N82°05'37"E	30.02'
L106	S37°58'01"W	14.36'
L107	S78°43'07"W	17.62'
L108	S78°43'07"W	11.75'
L109	S79°23'37"W	29.45'
L110	S79°47'19"W	7.99'
L111	N82°08'37"E	21.39'
L112	N82°16'43"E	8.81'
L175	N80°40'35"E	10.42'
L176	N80°58'07"E	29.64'
L177	N81°20'37"E	29.71'
L178	N81°38'37"E	29.77'
L179	N81°52'07"E	29.84'
L180	N82°01'07"E	29.90'
L181	N82°05'37"E	30.01'

EASEMENT	OWNER	AREA	PURPOSE	RECORDING DATA
E-123	Evergreen Timber Limited Partnership	532 S.F.	Drainage and Catchbasin	XX-XX
E-105	Power Systems & Supplies of Alaska, LLC	302 S.F.	Utility Guy Anchor	XX-XX
E-104	Power Systems & Supplies of Alaska, LLC	325 S.F.	Utility Guy Anchor	XX-XX
E-13	Barbara Massenburg	706 S.F.	Construction for Building New Access Road.	XX-XX

PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
14	Estate of Daniel Brusich deceased, & Alice Brusich	11,593 S.F.	202,280 S.F.	XX-XX
101	Power Systems & Supplies of Alaska, LLC	1,779 S.F.	104,110 S.F.	XX-XX

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

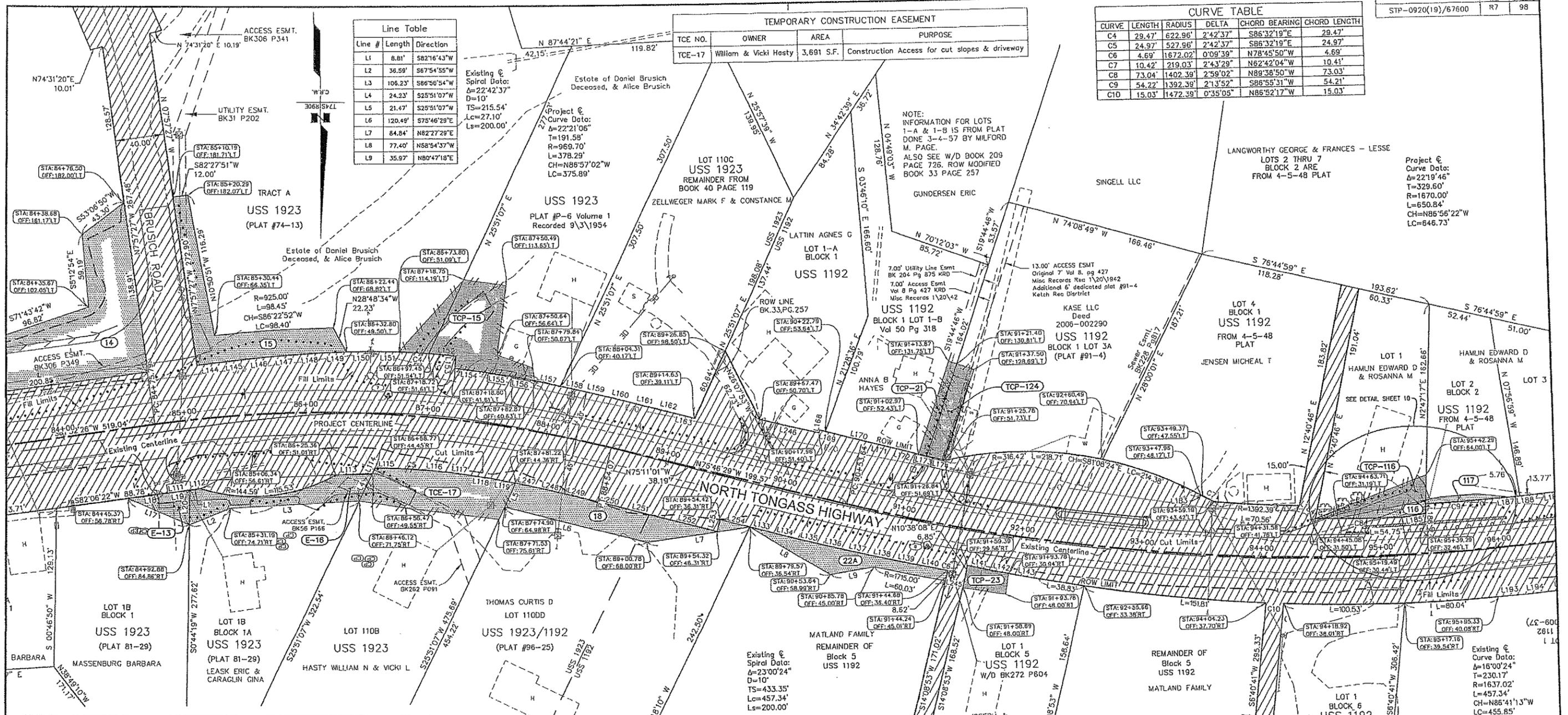
DATE: _____ REVISIONS: _____ BY: _____

DRAWN: EAA DATE: 05/21/2012 SCALE: 1" = 40'
 CHECKED: _____ DATE: _____ SHEET: R6 OF 100

CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C4	29.47'	622.96'	2°42'37"	S86°32'19"E	29.47'
C5	24.97'	527.96'	2°42'37"	S86°32'19"E	24.97'
C6	4.69'	1672.02'	0°09'39"	N78°45'50"W	4.69'
C7	10.42'	219.03'	2°43'28"	N62°42'04"W	10.42'
C8	73.04'	1402.39'	2°58'02"	N89°38'50"W	73.03'
C9	54.22'	1392.39'	2°13'52"	S86°55'31"W	54.21'
C10	15.03'	1472.39'	0°35'05"	N86°52'17"W	15.03'

TEMPORARY CONSTRUCTION EASEMENT				
TCE NO.	OWNER	AREA	PURPOSE	
TCE-17	William & Vicki Hasty	3,691 S.F.	Construction Access for cut slopes & driveway	

Line #	Length	Direction
L1	6.81'	S82°16'43"W
L2	36.59'	S67°54'55"W
L3	106.23'	S86°56'54"W
L4	24.23'	S25°51'07"W
L5	21.47'	S28°51'07"W
L6	120.49'	S75°46'29"E
L7	64.84'	N82°27'29"E
L8	77.40'	N58°54'37"W
L9	35.97'	N80°47'18"E



TEMPORARY CONSTRUCTION PERMIT				
TCP NO.	OWNER	AREA	PURPOSE	
TCP-21	Anna B Hayes	557 S.F.	Construction Access for driveway	
TCP-124	KASE LLC	1,178 S.F.	Construction Access for driveway	
TCP-23	Joseph & Shirley Wharton	627 S.F.	Construction Access for driveway	
TCP-15	Estate of Daniel Brusich Deceased & Alice Brusich	4,358 S.F.	Construction Access for driveway	
TCP-116	Edward D & Rosanna M Hamlin	1,098 S.F.	Construction Access for driveway	

PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
22A	John & Patrice Matland	1,852 S.F.	256,719 S.F.	yyy-xxx
18	Curtis D Thomas	3,360 S.F.	49,283 S.F.	
14	Estate of Daniel Brusich deceased, & Alice Brusich	11,593 S.F.	202,280 S.F.	XX-XX
117	Edward D & Rosanna M Hamlin	275 S.F.	9,765 S.F.	XX-XX
15	Estate of Daniel Brusich Deceased & Alice Brusich	4,290 S.F.	408,660 S.F.	yyy-xxx
116	Edward D & Rosanna M Hamlin	488 S.F.	13,257 S.F.	XX-XX

LINE	BEARING	LENGTH
L169	N75°10'24"W	20.59'
L170	N75°15'14"W	19.91'
L171	N75°24'50"W	19.86'
L172	N75°39'14"W	19.80'
L173	N75°58'26"W	19.75'
L174	N76°13'42"W	6.66'
L183	S61°20'19"E	1.50'
L184	N51°08'11"W	16.72'
L185	N81°57'41"E	19.54'
L186	N02°47'17"E	7.81'
L187	N85°25'23"E	19.46'
L188	N84°42'11"E	19.53'
L193	N85°25'23"E	20.54'
L194	N84°42'11"E	20.47'
L247	N78°15'59"W	16.96'
L248	N77°10'43"W	25.00'
L249	N76°12'00"W	25.00'
L250	N75°33'20"W	25.00'
L251	N75°14'05"W	25.00'
L252	N75°11'01"W	52.77'
L253	N14°47'58"E	10.00'
L254	N75°15'04"W	25.15'

LINE	BEARING	LENGTH
L144	N82°45'12"E	19.31'
L145	N83°20'22"E	20.61'
L146	N84°08'22"E	20.79'
L147	N85°08'22"E	20.96'
L148	N86°20'22"E	21.13'
L149	N87°44'22"E	21.31'
L150	N89°20'21"E	21.48'
L151	S88°51'37"E	21.68'
L152	S84°23'18"E	17.84'
L153	N05°47'00"E	10.00'
L154	N82°33'47"W	24.85'
L155	S80°49'01"E	21.05'
L156	S79°25'01"E	20.91'
L157	S78°10'33"E	22.34'
L160	S75°49'01"E	20.35'
L161	S75°25'01"E	20.22'
L162	S75°13'01"E	20.05'
L163	N75°11'01"W	38.18'
L168	S14°30'22"W	15.42'

EASEMENT	OWNER	AREA	PURPOSE	RECORDING DATA
E-16	Eric Leask & Gina Caraglin	2,216 S.F.	New Access Road Construction	XX-XX
E-13	Barbara Massenburg	706 S.F.	Construction for Building New Access Road.	XX-XX

LINE	BEARING	LENGTH
L111	N82°08'37"E	21.39'
L112	N82°16'43"E	8.81'
L113	S88°47'48"W	29.54'
L114	S25°51'07"W	5.55'
L115	S88°46'19"E	16.79'
L116	S84°13'00"E	18.49'
L117	S82°25'02"E	18.67'
L118	S80°49'01"E	18.82'
L119	S79°24'33"E	19.20'
L120	S25°51'07"W	20.56'

LINE	BEARING	LENGTH
L133	S75°24'13"E	20.46'
L134	S75°36'55"E	20.15'
L135	S75°53'43"E	20.19'
L136	S76°14'43"E	20.24'
L137	S76°39'55"E	20.28'
L138	S77°09'19"E	20.32'
L139	S77°42'58"E	20.36'
L140	S78°20'43"E	20.41'
L141	N77°26'41"W	18.32'
L142	N78°03'14"W	20.47'
L143	N78°46'26"W	20.54'

5/25/12 Delete TCP-20

DATE REVISIONS BY

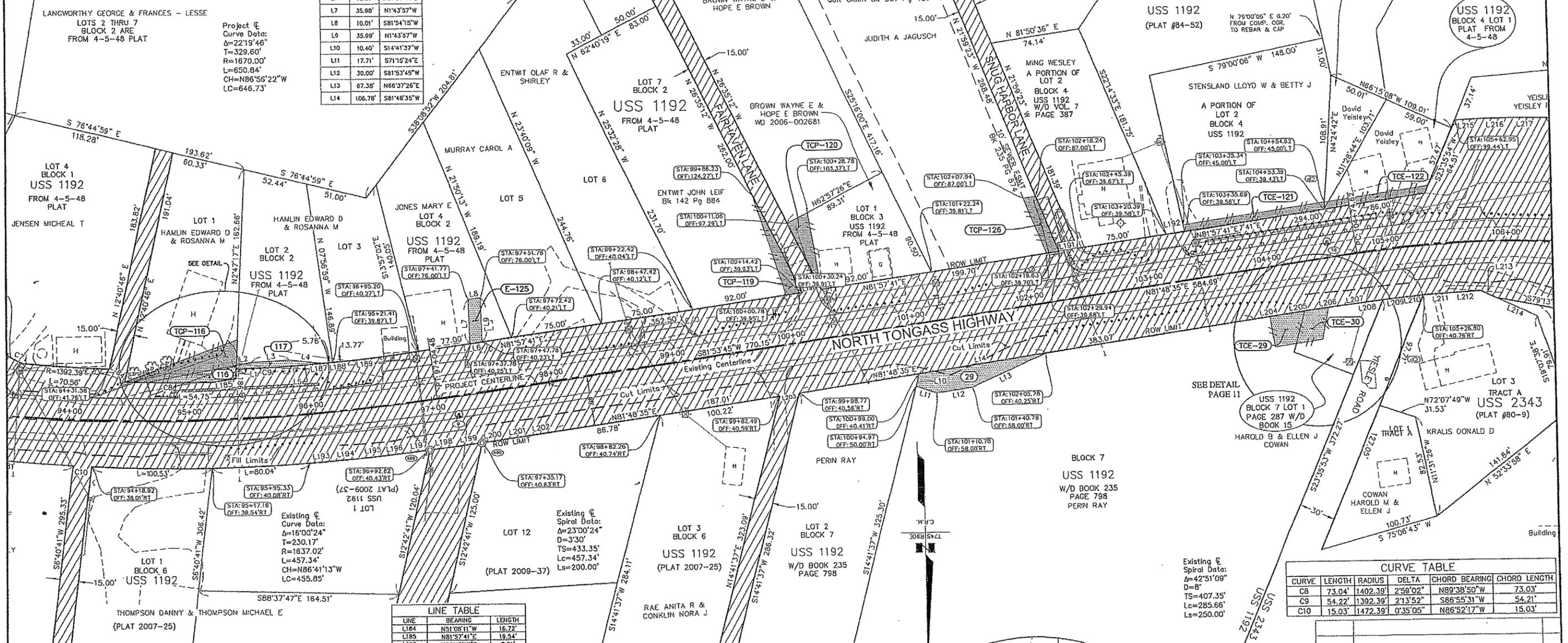
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

DRAWN EAA DATE 05/21/2012 SCALE 1" = 40'
 CHECKED DATE SHEET R7 OF 100

G:\KTR\68973\PLANSET\68973_R1-RT1_ROW.DWG

TEMPORARY CONSTRUCTION EASEMENT			
TCE NO.	OWNER	AREA	PURPOSE
TCE-30	Harold B & Ellen J Cowan	526 S.F.	Drainage, Install Slip Lining
TCE-29	Ray Perin	587 S.F.	Drainage, Install Slip Lining
TCE-121	Stensland Lloyd & Betty	652 S.F.	Building Retaining Wall
TCE-122	Yeisley David	490 S.F.	Building Retaining Wall

Line Table		
Line #	Length	Direction
L1	3.12'	S2°47'17"W
L2	12.29'	S79°37'00"W
L3	31.09'	S86°33'05"W
L4	27.76'	N83°53'31"W
L5	16.80'	S85°25'23"W
L6	10.01'	N81°57'41"E
L7	35.99'	N1°43'57"W
L8	10.01'	S81°54'15"W
L9	35.99'	N1°43'57"W
L10	10.40'	S14°41'37"W
L11	17.71'	S71°15'24"E
L12	30.00'	S81°53'45"W
L13	67.38'	N66°37'26"E
L14	106.78'	S81°48'35"W



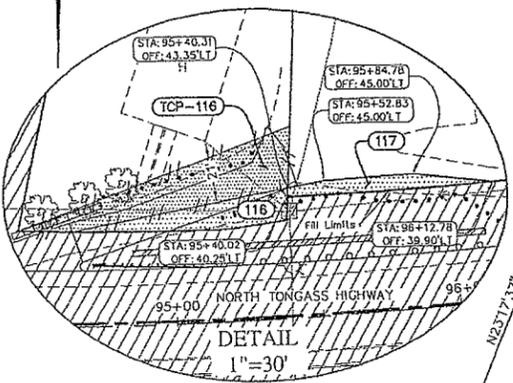
TEMPORARY CONSTRUCTION PERMIT			
TCP NO.	OWNER	AREA	PURPOSE
TCP-120	Wayne E & Hope E Brown	567 S.F.	Driveway Access Construction
TCP-119	John Leif Entwit	575 S.F.	Driveway Access Construction
TCP-126	Tim & Judith Jagusch	487 S.F.	Temporary Access Road Construction
TCP-116	Edward D & Rosanna M Hamlin	1,098 S.F.	Construction Access for driveway

PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
117	Edward D & Rosanna M Hamlin	275 S.F.	9,765 S.F.	XX-XX
29	Ray Perin	1,298 S.F.	310,702 S.F.	XX-XX
116	Edward D & Rosanna M Hamlin	488 S.F.	13,257 S.F.	XX-XX

EASEMENT	OWNER	AREA	PURPOSE	RECORDING DATA
E-125	Mary Jones	358 S.F.	Drainage Easement	xxx-yyy

LINE	BEARING	LENGTH
L184	N51°08'11"W	16.72'
L185	N81°57'41"E	19.54'
L186	N02°47'17"E	7.81'
L187	N85°25'23"E	19.46'
L188	N84°42'11"E	18.53'
L189	N83°58'09"E	24.76'
L190	S81°57'41"W	15.82'
L191	S81°57'41"W	15.46'
L192	N81°57'41"E	15.30'
L193	N85°25'23"E	20.54'
L194	N84°42'11"E	20.47'
L195	N84°03'47"E	20.42'
L196	N83°30'11"E	20.36'
L197	N83°01'23"E	20.31'
L198	N82°37'23"E	20.25'
L199	N82°16'11"E	20.20'
L200	N82°03'47"E	20.14'
L201	N81°54'11"E	20.09'
L202	N81°49'23"E	20.02'
L203	S81°48'35"W	16.28'
L204	N81°50'35"E	24.96'
L205	N82°02'35"E	24.78'
L206	N82°28'35"E	24.65'
L207	N83°02'35"E	24.51'
L208	N83°33'34"E	9.02'
L209	N84°00'34"E	15.35'
L210	N84°04'48"E	19.14'
L211	N86°20'01"E	29.19'
L212	N87°17'07"E	18.91'
L213	S85°13'57"E	13.91'
L214	S85°13'57"E	36.53'

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C8	73.04'	1402.39'	2°58'02"	N89°38'50"W	73.03'
C9	54.22'	1392.39'	2°13'52"	S86°55'31"W	54.21'
C10	15.03'	1472.39'	0°35'05"	N86°52'17"W	15.03'



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

DRAWN: EAA
 DATE: 05/21/2012
 SCALE: 1" = 40'
 CHECKED: []
 DATE: []
 SHEET: R8
 OF: 100

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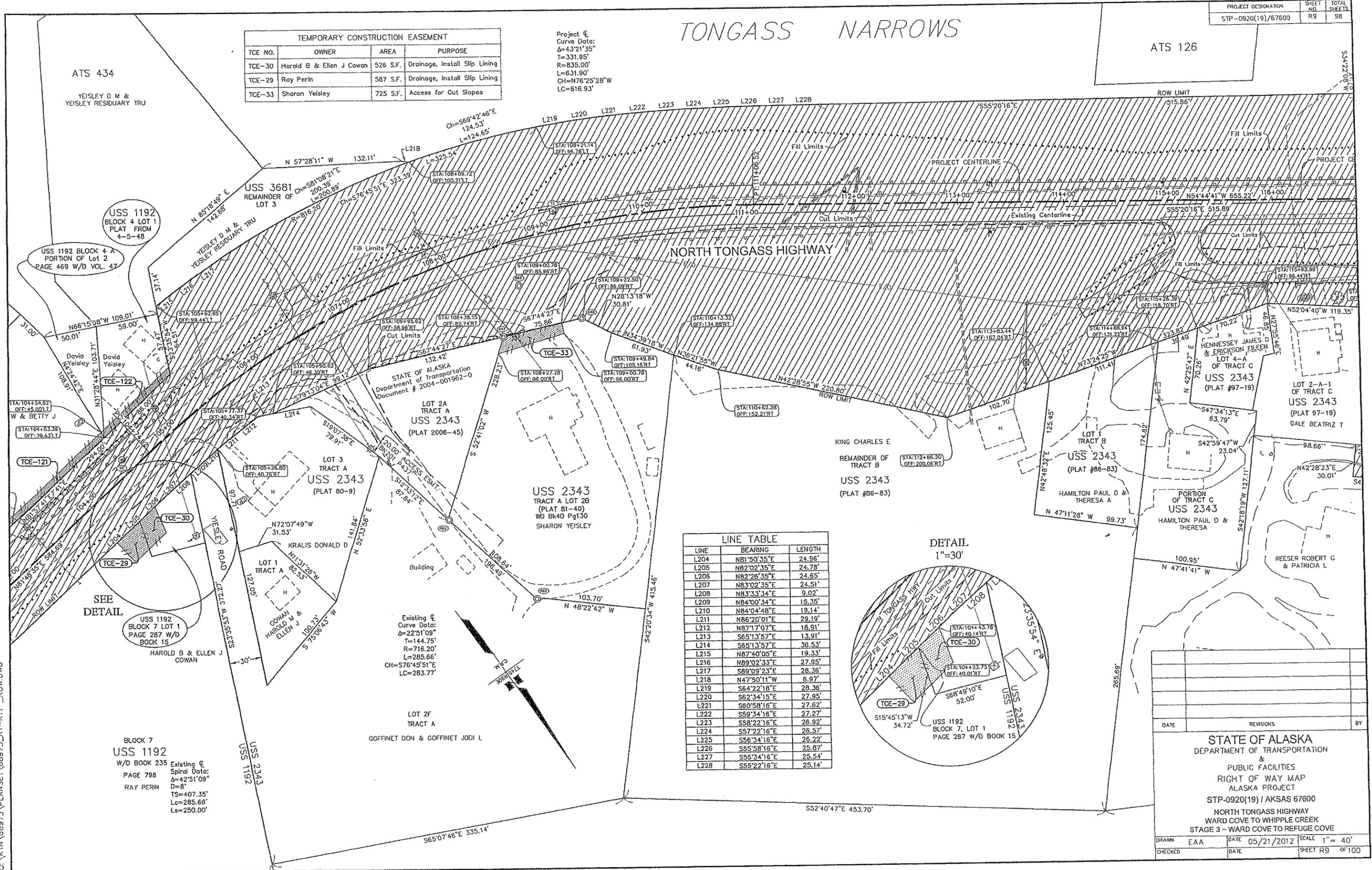
TONGASS NARROWS

PROJECT DESIGNATION: STP-0920(19)/67600
SHEET NO: R9
TOTAL SHEETS: 98

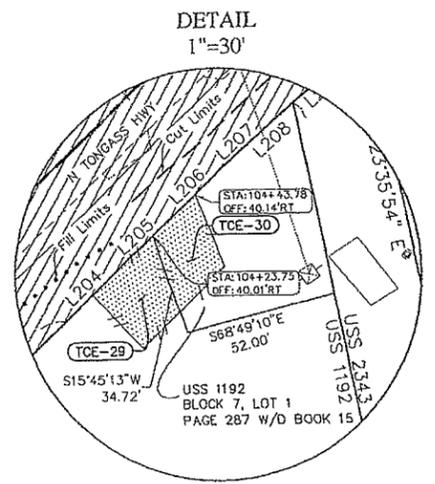
ATS 126

TEMPORARY CONSTRUCTION EASEMENT			
TCE NO.	OWNER	AREA	PURPOSE
TCE-30	Harold B & Ellen J Cowan	526 S.F.	Drainage, Install Slip Lining
TCE-29	Ray Perin	587 S.F.	Drainage, Install Slip Lining
TCE-33	Sharon Yeisley	725 S.F.	Access for Cut Slopes

Project E
Curve Data:
Δ=43°21'35"
R=331.95'
L=835.00'
CH=N76°25'28"W
LC=616.93'



LINE	BEARING	LENGTH
L204	N81°50'35"E	24.96'
L205	N82°02'35"E	24.78'
L206	N82°26'35"E	24.65'
L207	N83°02'35"E	24.51'
L208	N83°33'34"E	9.02'
L209	N84°00'34"E	15.35'
L210	N84°04'48"E	19.14'
L211	N86°20'01"E	29.19'
L212	N87°17'07"E	18.91'
L213	S65°13'57"E	13.91'
L214	S65°13'57"E	36.53'
L215	N87°40'05"E	19.33'
L216	N89°02'33"E	27.95'
L217	S89°09'23"E	26.36'
L218	N47°50'11"W	6.97'
L219	S64°22'18"E	28.36'
L220	S62°34'15"E	27.95'
L221	S60°58'16"E	27.62'
L222	S59°34'16"E	27.27'
L223	S58°22'16"E	26.92'
L224	S57°22'16"E	26.57'
L225	S56°34'16"E	26.22'
L226	S55°58'16"E	25.87'
L227	S55°34'16"E	25.54'
L228	S55°22'16"E	25.14'



BLOCK 7
USS 1192
W/D BOOK 235
PAGE 798
RAY PERIN

Existing E
Spiral Data:
Δ=42°51'09"
D=8"
TS=407.35'
LC=285.66'
Ls=250.00'

LOT 2F
TRACT A
GOFFINET DON & GOFFINET JODI L

DATE	REVISIONS	BY

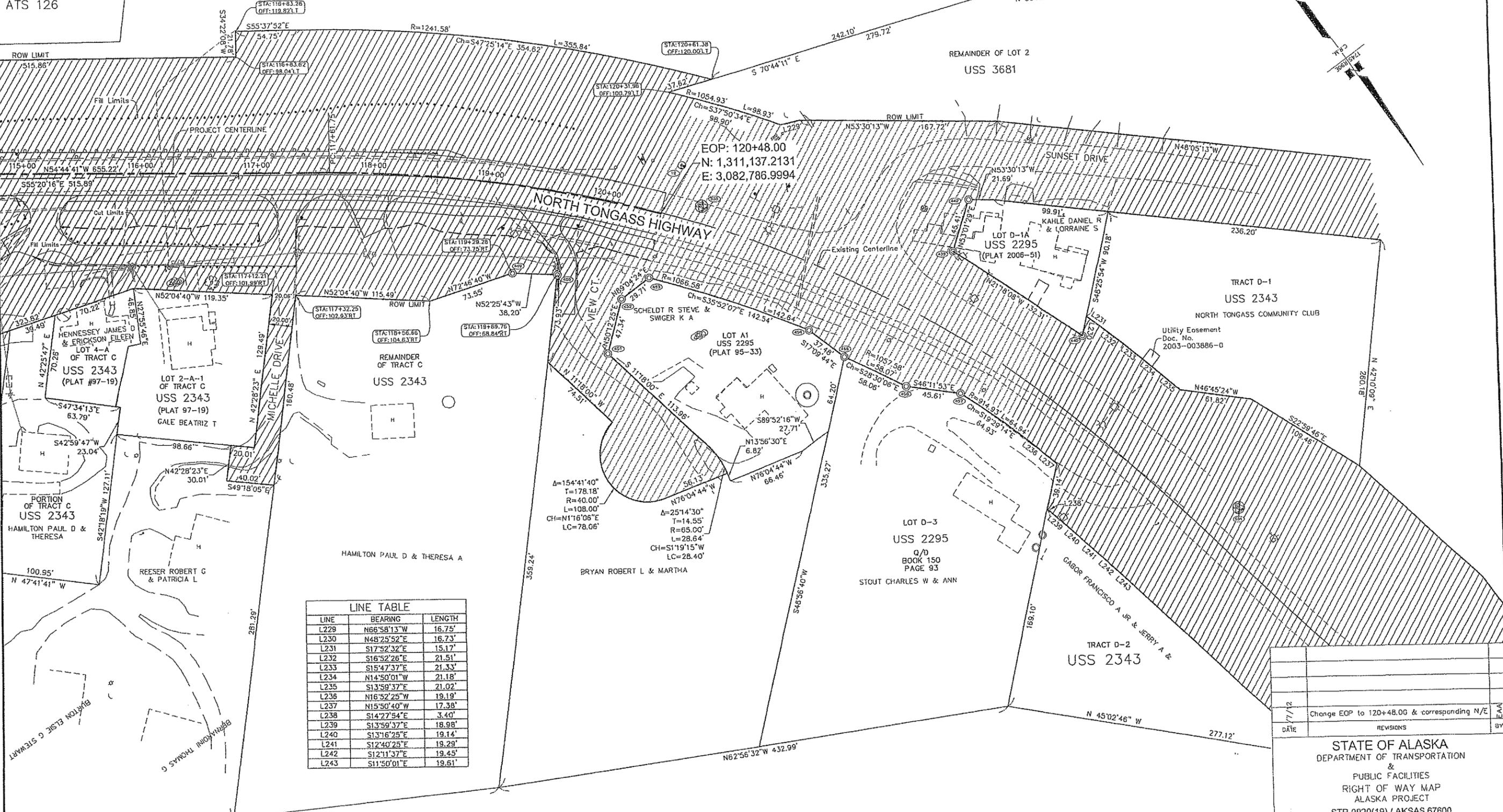
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
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 RIGHT OF WAY MAP
 ALASKA PROJECT
 STP-0920(19) / AKSAS 67600
 NORTH TONGASS HIGHWAY
 WARD COVE TO WHIPPLE CREEK
 STAGE 3 - WARD COVE TO REFUGE COVE

DRAWN: EAA DATE: 05/21/2012 SCALE: 1" = 40'
 CHECKED: DATE: SHEET: R9 OF 100

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ATS 126

TONGASS NARROWS



EOP: 120+48.00
 N: 1,311,137.2131
 E: 3,082,786.9994

LINE	BEARING	LENGTH
L229	N66°58'13"W	16.75'
L230	N48°25'52"E	16.73'
L231	S17°52'32"E	15.17'
L232	S16°52'26"E	21.51'
L233	S15°47'37"E	21.33'
L234	N14°50'01"W	21.18'
L235	S13°59'37"E	21.02'
L236	N16°52'25"W	19.19'
L237	N15°50'40"W	17.38'
L238	S14°27'54"E	3.40'
L239	S13°59'37"E	18.98'
L240	S13°16'25"E	19.14'
L241	S12°40'23"E	19.29'
L242	S12°11'37"E	19.45'
L243	S11°50'01"E	19.61'

DATE	REVISIONS	BY
7/1/12	Change EOP to 120+48.00 & corresponding N/E	J.A.
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES RIGHT OF WAY MAP ALASKA PROJECT STP-0920(19) / AKSAS 67600 NORTH TONGASS HIGHWAY WARD COVE TO WHIPPLE CREEK STAGE 3 - WARD COVE TO REFUGE COVE		
DRAWN	DATE	SCALE
EAA	05/21/2012	1" = 40'
CHECKED	DATE	SHEET NO. OF TOTAL
		R10 OF 100

C:\KTN\68973\PLANSET\68973_R1-R11_ROW.DWG

MONUMENT SUMMARY SHEET

CONTROL MONUMENTS

SHEET 3						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
289	N/A	N/A	1310696.7886	3091047.2772	33.24	SH_MON_NT-25

SHEET 4						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
201	37+93.60	L 45.24	1311288.6418	3090117.0959	70.52	ALCTRL2"_RESET#1
301	38+02.87	R 262.37	1311509.6362	3090331.2344	68.43	CL_MON_REVILLA

SHEET 5						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
2	45+71.57	R 174.33	1312028.8411	3089678.6260	123.17	ALCTRL2"_NT-2
3	49+19.63	R 99.99	1312015.6343	3089257.1428	146.65	ALCTRL2"_NT-3
60	42+27.36	L 11.89	1311651.4897	3089868.8286	95.67	SH_MON_NT-27

SHEET 6						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
4	57+35.23	L 11.60	1311510.3353	3088573.4596	162.38	ALCTRL2"_NT-4

SHEET 8						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
5	73+08.92	L 25.18	1310647.1748	3087255.3465	116.71	ALCTRL2"_NT-5
6	80+66.03	L 16.26	1310472.5368	3086515.6466	106.78	ALCTRL2"_NT-6

SHEET 9						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
7	86+66.97	L 16.56	1310401.4528	3085916.6044	78.63	ALCTRL2"_NT-7
8	91+23.79	R 19.19	1310529.6024	3085474.7910	54.83	ALCTRL2"_NT-8

SHEET 10						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
9	97+19.12	R 15.33	1310542.3851	3084876.7416	56.74	ALCTRL2"_NT-9
10	104+50.49	L 12.85	1310411.3841	3084156.6449	36.93	ALCTRL2"_NT-10

SHEET 11						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
11	109+18.07	L 16.95	1310459.6858	3083689.6607	27.35	ALCTRL2"_NT-11

SHEET 12						
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
12	N/A	N/A	1311115.0191	3082748.6300	33.22	ALCTRL2"_NT-12
534	N/A	N/A	1311626.9003	3082536.0177	53.48	GPS_SH-MON_BC2.5"/CASE
535	N/A	N/A	1311152.5394	3082755.7569	35.51	GPS_SH-MON_BC2.5"/CASE

FOUND PROPERTY MONUMENTS

SHEET 4						
POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	
951	32+07.75	L 52.81	1310928.5933	3090588.9626	ALSEC2"_WCWR_L3_TR300	

SHEET 7						
POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	
427	67+93.51	L 159.53	1310784.0074	3087788.3140	ALSEC_L2/L3/ROW	
428	67+14.24	L 42.26	1310926.0817	3087787.2971	ALSEC_L2/ROW	
429	65+58.25	L 43.22	1311015.5236	3087917.5363	ALSEC_L1/L2?	
430	65+56.37	L 70.01	1310993.4587	3087932.7333	ALSEC_L1/L2	
431	65+18.66	L 170.33	1310932.6383	3088020.9825	ALSEC_L1/L2	
432	64+15.57	L 286.69	1310895.9921	3088172.0633	ALSEC_L1/L2	
433	60+97.65	L 249.14	1311108.3682	3088411.5956	ALSEC_L1/L2/L3	
491	69+89.21	L 64.61	1310755.3552	3087564.6584	ALSEC2.5"_S1754_L1A_B4/ROW	
492	61+22.72	L 45.91	1311260.8912	3088274.9609	ALSEC2"_R&M-K	

SHEET 10						
POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	
489	96+91.93	R 40.40	1310571.0369	3084900.4093	ALSEC2"_L1/ROW	
490	97+34.33	R 40.82	1310565.4726	3084858.0864	ALSEC2"_L12/ROW	

SHEET 11						
POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	
447	108+37.37	R 82.71	1310527.4467	3083796.0610	ALSEC2"_L2B_TR-A_S2343/ROW_SET	
448	109+21.71	R 86.11	1310556.2313	3083725.8789	ALSEC2"_L2B_TR-A_S2343/ROW_SET	
462	107+56.91	R 321.24	1310743.7076	3083913.1632	PLASCAP_POOL	
463	106+96.50	R 219.04	1310636.3364	3083937.0810	PLASCAP_POOL	
965	108+68.23	R 41.69	1310497.2000	3083756.2792	PLASCAP_S3248	

SHEET 12						
POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	
439	N/A	N/A	1311309.1690	3082605.6619	ALSEC2.5"_SET_LOTD-1A_S2295	
440	N/A	N/A	1311432.4525	3082557.5846	ALSEC2.5"_SET_LOTD-1A_S2295	
442	N/A	N/A	1311281.9716	3082569.3385	ALSEC2.5"_SET_LOTD-1A_S2295	
449	119+28.48	R 73.72	1311103.5855	3082919.1092	ALSEC2"_TR-C_S2343/ROW_SET	
450	119+69.04	R 68.85	1311126.9496	3082888.7996	ALSEC2"_TR-C_S2343/ROW_SET	
451	120+29.73	R 125.34	1311205.9175	3082893.1167	ALSEC2"_L1-A_S2295/ROW_SET	
452	120+30.76	R 77.97	1311175.6477	3082856.6685	ALSEC2"_L1-A_S2295/ROW_SET	
453	N/A	N/A	1311175.1017	3082826.9745	ALSEC2"_L1-A_S2295/ROW_SET	
454	N/A	N/A	1311290.6261	3082743.5280	ALSEC2"_ROW_SET	
455	N/A	N/A	1311326.4502	3082732.3960	ALSEC2"_LD3_S2295/ROW_SET	
456	N/A	N/A	1311377.4753	3082704.6958	ALSEC2"_LD3_S2295/ROW_SET	
457	N/A	N/A	1311408.9993	3082671.8344	ALSEC2"_LD3_S2295/ROW_SET	

HORIZONTAL CONTROL

COORDINATE SYSTEM:

This project is located within the 2002 N. Tongass Local Grid (Local Grid) developed by the Alaska Department of Transportation and Public Facilities (ADOT & PF).

BASIS OF COORDINATES:

The basis for this system is ADOT & PF GPS point "435", a 3/4" Aluminum Cap stamped "TRACT M ASLS 8129" and located in the center of the gravel parking area of Fatern Bight.

BASIS OF BEARINGS:

The project bearings are related 1'35"14" to the Local Grid from NAD83 Alaska State Plane Zone 1 (AKSPC). This rotation was derived by coordinate inverting from NAD83 AKSPC Zone 1 values compared to Local Grid values on a pair of centerline monuments located at both Revillo Road and Whipple Creek.

TRANSLATION PARAMETERS:

This transformation information is provided to the contractor to ensure consistent coordinate values in the case that GPS is used for the project. If only conventional instruments are used, then only local coordinates will be necessary.

Transformation to the Local Grid from NAD83 AKSPC Zone 1 expressed in U.S. Survey Feet (USFT):

Zone = NAD83 AKSPC ZONE 1(CORS96)(EPOCH:2002.0006)
Scale Factor = 0.99990085
Rotation to Local Grid North = 1'35"14"

DOT & PF GPS point "435"

(AKSPC) Zone 1
North = 1,315,746.04554 USFT
East = 3,079,408.28789 USFT

2002 N. Tongass Local Grid
North = 1,316,047.09198 USFT
East = 3,079,528.57400 USFT

GENERAL NOTES

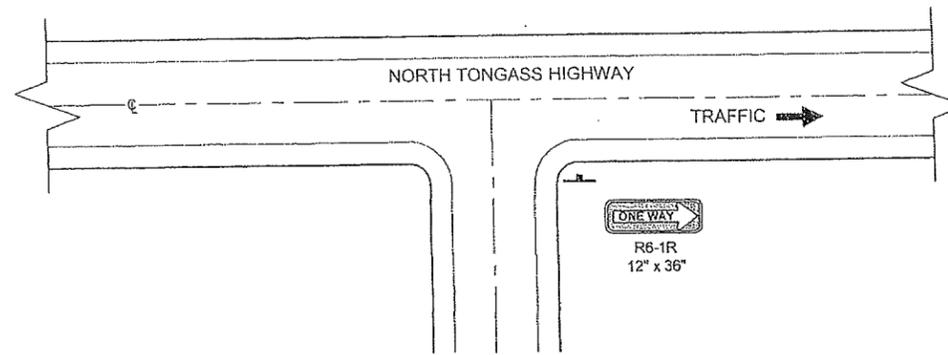
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND COORDINATES ARE U.S. SURVEY FEET.
- THE TOPOGRAPHY SURVEY WAS PERFORMED BY TOWER NORDLING IN 1998 AND SUPPLEMENTED BY ADOT & PF IN MARCH 2012.
- RIGHT-OF-WAY MAPPING WAS PERFORMED BY USKH IN 2002.
- REFER TO STATION AND OFFSETS FOR RIGHT-OF-WAY ANGLE POINT LOCATIONS.
- THE MONUMENTS LISTED ON THE SHEET 13, MONUMENT SUMMARY SHEET, HAVE BEEN VERIFIED BY THE ADOT & PF AS OF 03/15/2012.
- CENTERLINE MONUMENTS ALONG NORTH TONGASS HIGHWAY AS SHOWN ON SHEETS 4 THROUGH 12 HAVE SINCE BEEN DESTROYED BY ROAD CONSTRUCTION.
- WHETHER LISTED OR NOT, UNLESS OTHERWISE NOTED, ALL MONUMENTS OR PROPERTY MARKERS/CORNERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).
- THIS RIGHT-OF-WAY MAP REFERS TO THE TONGASS HIGHWAY WARD COVE TO WHIPPLE CREEK RIGHT-OF-WAY MAP, PLAT 2006-45, KETCHIKAN RECORDING DISTRICT, FOR PHASES I & II.

DATE	REVISIONS	BY
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES RIGHT OF WAY MAP ALASKA PROJECT STP-0920(19) / AKSAS 67600 NORTH TONGASS HIGHWAY WARD COVE TO WHIPPLE CREEK STAGE 3 - WARD COVE TO REFUGE COVE		
DRAWN	EAA	DATE 05/21/2012
CHECKED		DATE
		SCALE 1" = 40'
		SHEET R11 OF 100

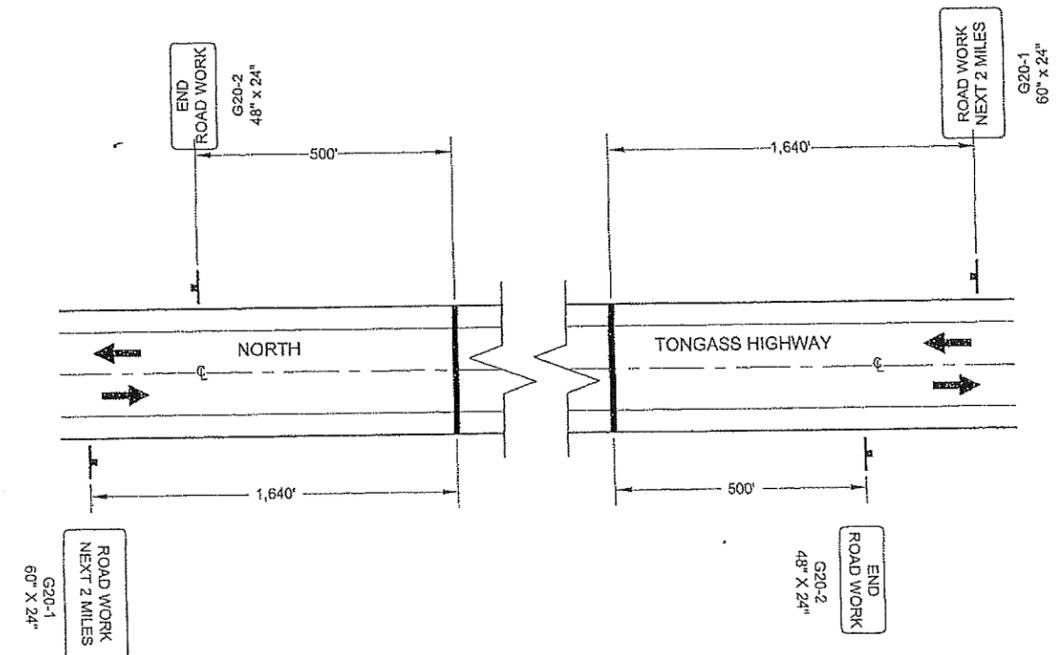
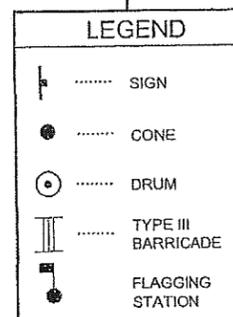
G:\KTR\68973\PLANSET\68973_R1-R11_ROW.DWG

TRAFFIC CONTROL NOTES:

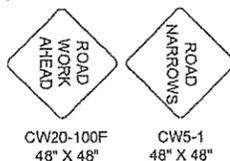
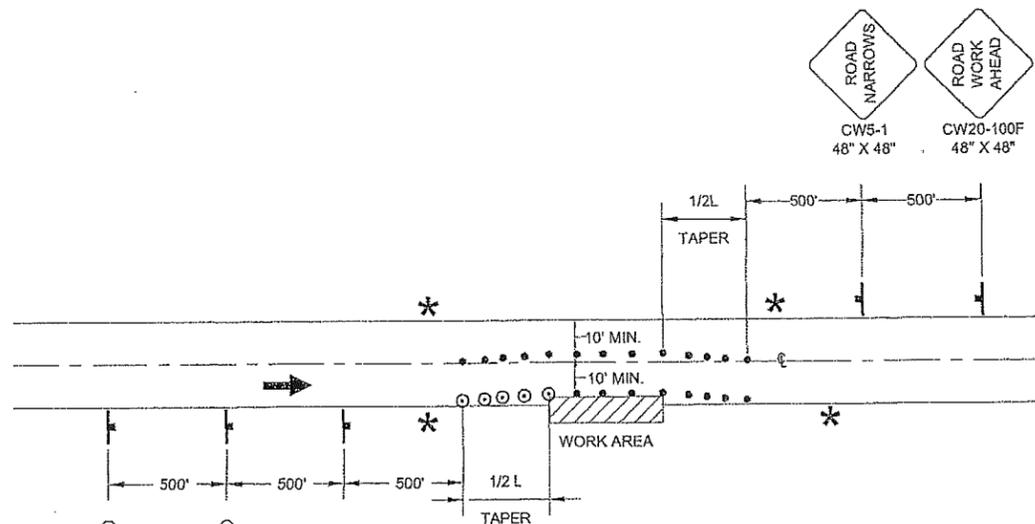
- IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
- TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
- TRAFFIC LANES SHALL BE A MINIMUM OF 10' WIDE.
- CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
- TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.09 OF THE SPECIFICATIONS.
- CHANNELIZATION DEVICES WILL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL IF USED AT NIGHT.
- THE CONTRACTOR SHALL GIVE 24 HOURS ADVANCE NOTICE BEFORE WORKING ON DRIVEWAYS.
- THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, PAVEMENT REMOVAL, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
- THE MAXIMUM LENGTH OF CONSTRUCTION WITH ONE-LANE ROAD CLOSURE IS 1000 FEET. IF VEHICLE STOP TIME EXCEEDS FIVE MINUTES, THE CONTRACTOR SHALL SHORTEN HIS WORK ZONE OR RESCHEDULE HIS WORK TO A LESS BUSY HOUR.
- FLAGGERS SHALL BE IN RADIO CONTACT WITH ONE ANOTHER.
- ACCESS TO HOMES AND BUSINESSES WILL BE KEPT OPEN AT ALL TIMES. WORK ON ACCESS TO ANY HOME OR BUSINESS THAT HAS ONLY ONE ACCESS, WILL BE DONE WITH HALF WIDTH CONSTRUCTION, AND BE CONTROLLED BY A FLAGGER.
- DRIVEWAYS AND APPROACHES SHALL BE SIGNED FOR ONE-WAY TRAFFIC, WHENEVER THE CONDITION APPLIES.



TYPICAL APPROACH / DRIVEWAY SIGNING FOR ONE-WAY TRAFFIC ON NORTH TONGASS HIGHWAY



PERMANENT CONSTRUCTION SIGNING



NOTE:
IF ONLY ONE LANE IS AFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.

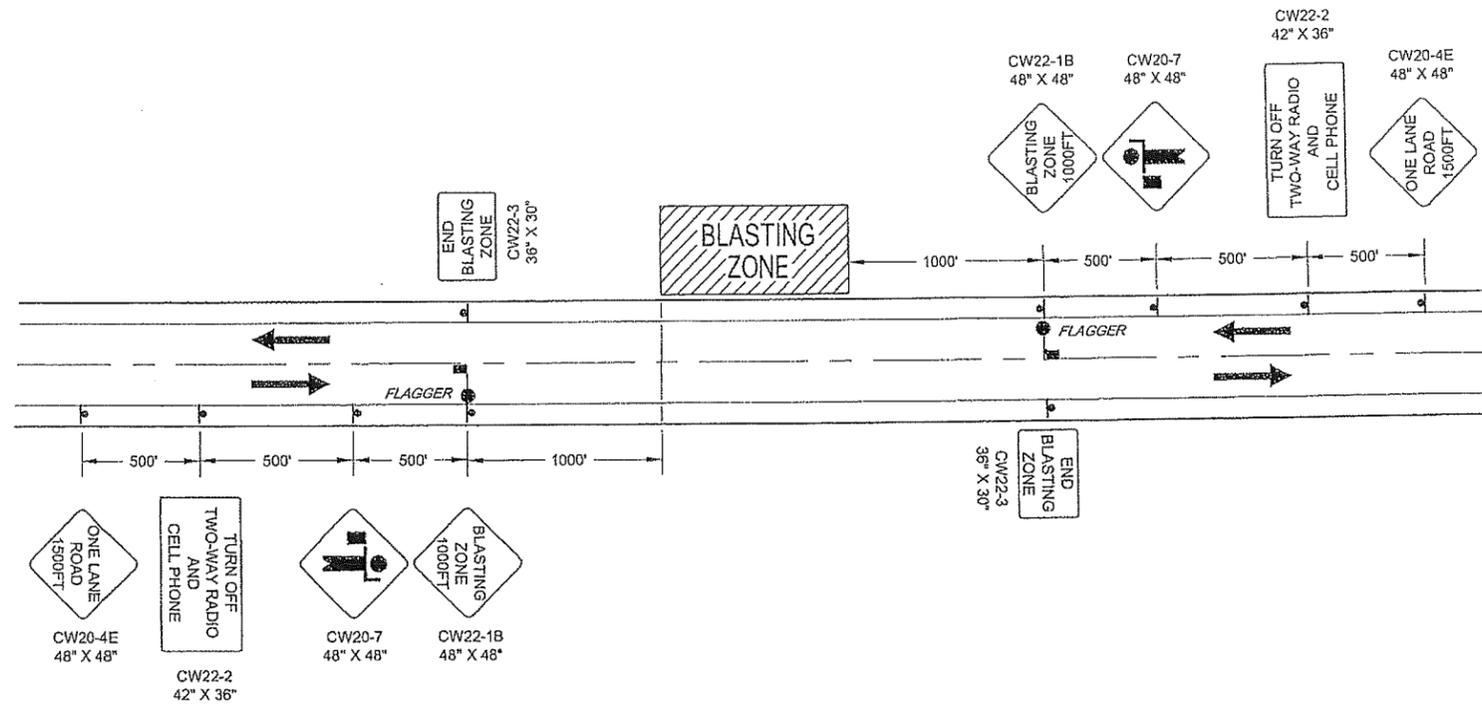
ROADWAY ENCROACHMENT

* NO PARKING WITHIN 200' OF CONES
MAX. LENGTH OF WORK ZONE = 400'

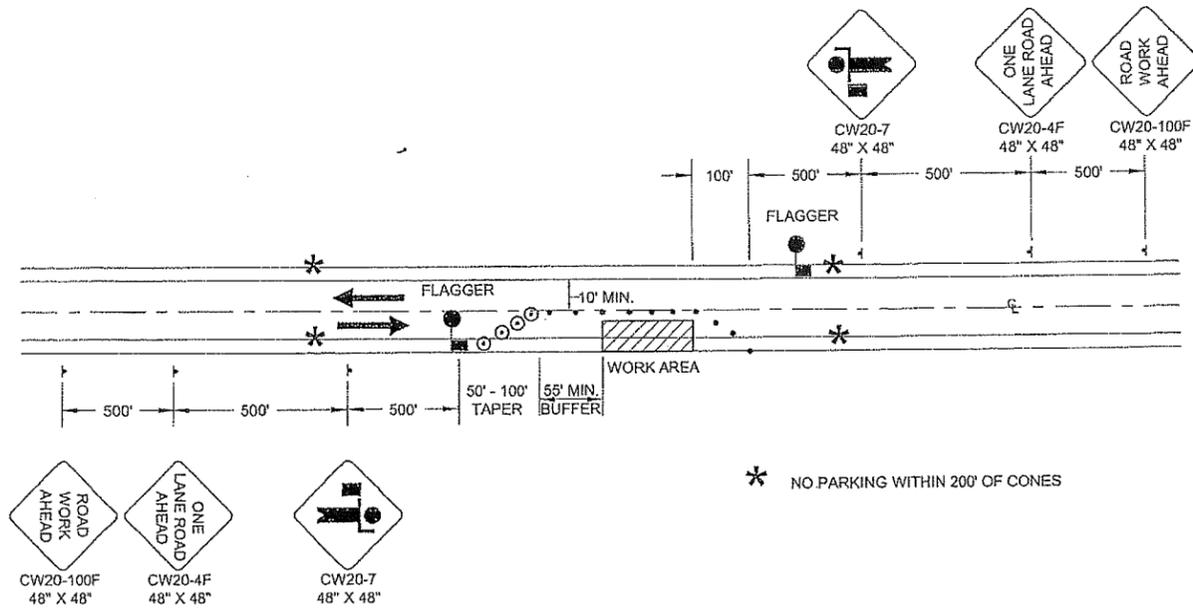
SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE PER THE ATSSA GUIDE (FT)
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
25 OR BELOW	105	115	125	6	6	6	25	50	35 FT FOR 20 MPH
30	150	165	180	6	7	7	30	60	85
35	205	225	245	7	8	8	35	70	120
40	270	295	320	8	9	9	40	80	170
45	450	495	540	11	12	13	45	90	220
50	500	550	600	11	12	13	50	100	280
55	550	605	660	11	12	13	55	110	335
60	600	660	720	11	12	13	60	120	415

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

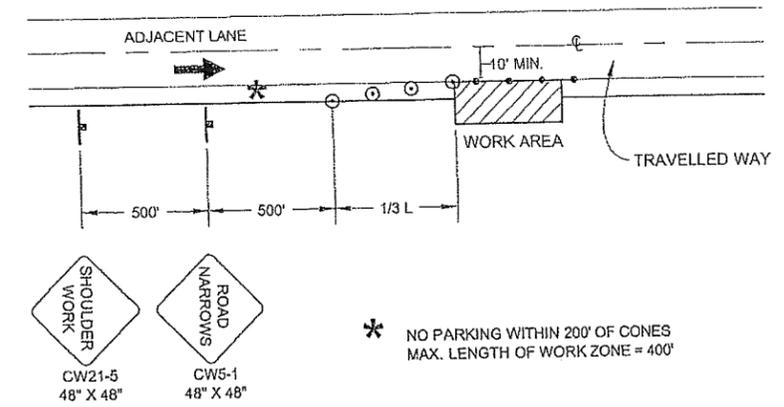
CHECKED BY: DAVID BRUCE EPSTEIN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: N. GEARY		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973	
DRAWN BY: R. GRANTHAM		TRAFFIC CONTROL PLAN	
PATH: Q:\KTN\68973\PLANS\T1-2_TRAF_CTL.DWG		GRANTHAM, RICK L (DOT)	
TAB: T1 Friday, January 11, 2013 11:42:33 AM		PROJECT DESIGNATION	YEAR
REVISIONS		68973	2013
NO.	DATE	DESCRIPTION	SHEET NO.
			T1
		TOTAL SHEETS	100



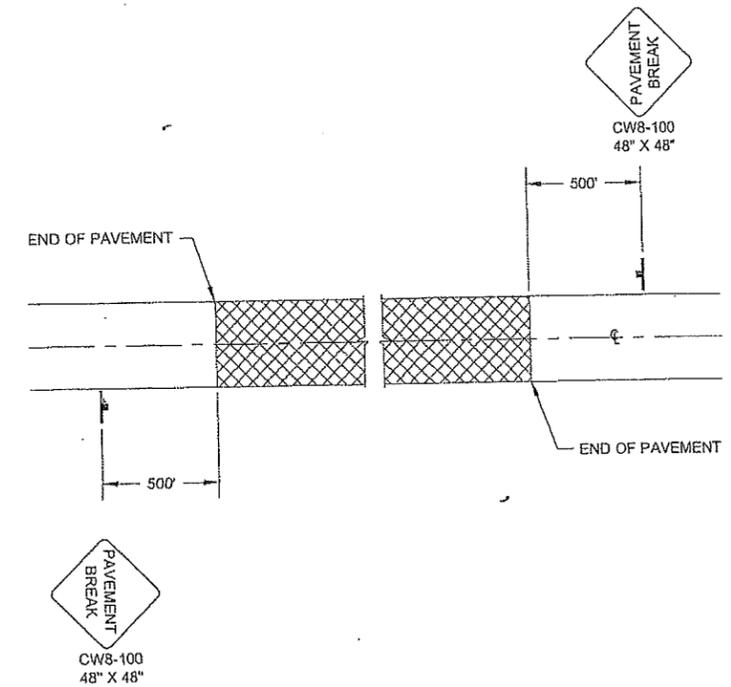
TYPICAL BLASTING ZONE PLAN



**TWO LANE ROAD - SINGLE LANE CLOSURE
DOUBLE FLAGGER**



SHOULDER WORK



SIGNING FOR UNPAVED AREAS

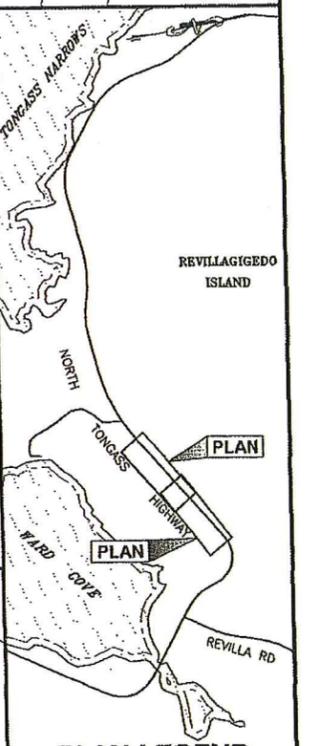
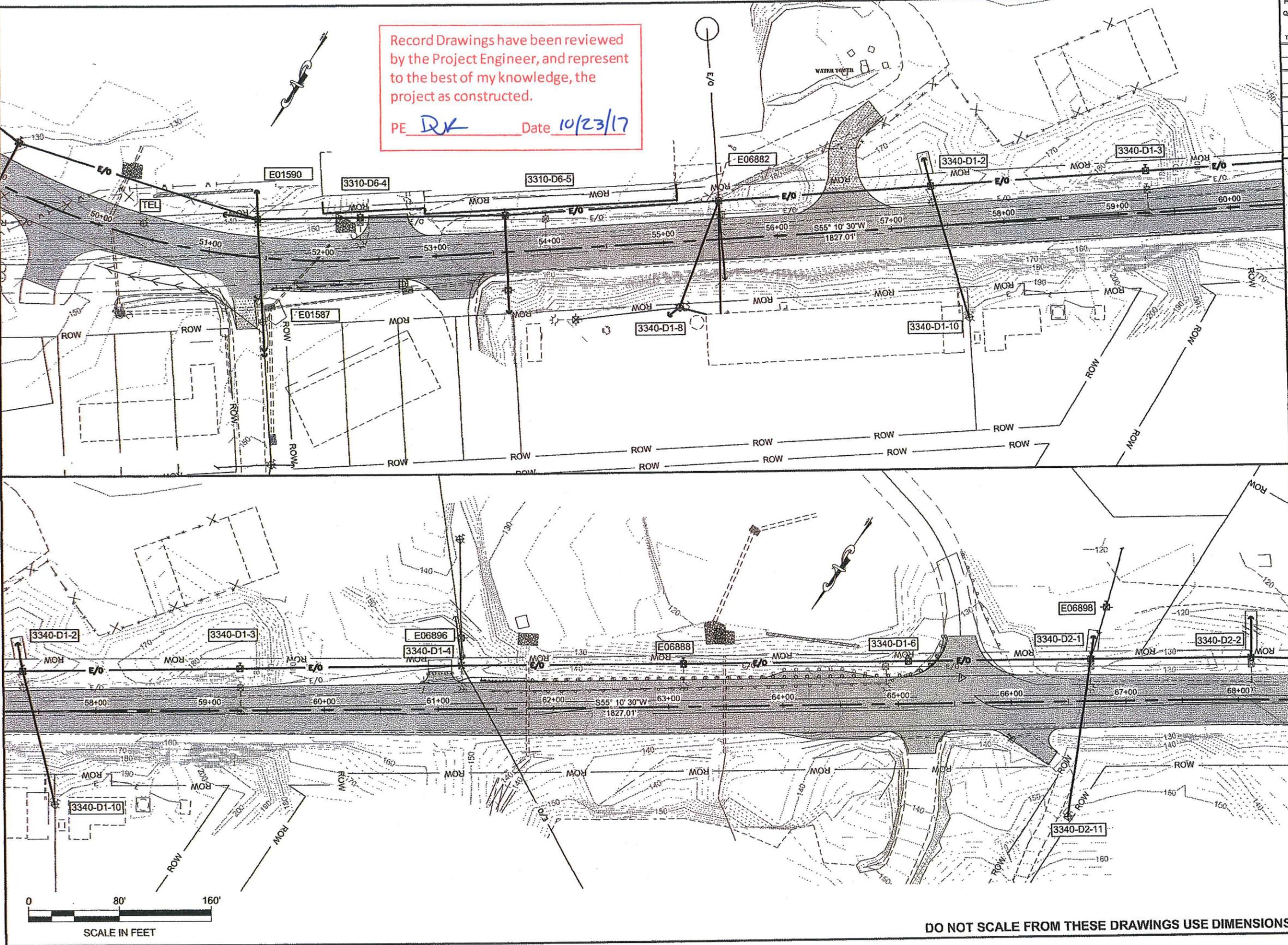
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: DAVID BRUCE EPSTEIN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: N. GEARY		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973	
DRAWN BY: R. GRANTHAM		TRAFFIC CONTROL PLAN	
PATH: Q:\KTN\68973\PLANSET\68973_T1-2_TRAFF_CTL.DWG		PROJECT DESIGNATION	YEAR
TAB: T2 Friday, January 11, 2013 11:42:37 AM GRANTHAM, RICK I. (DOT)		68973	2013
REVISIONS		SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	T2 100

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *DK* Date *10/23/17*

PATH:
 Q:\KTN\68973\PLANSET\68973_U4-U5_ELEC.DWG
 GRANHAM, RICK L (DOT)
 TAB: U2 Wednesday, January 09, 2013 12:30:45 P
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND
 CHECKED BY: M. CARSON

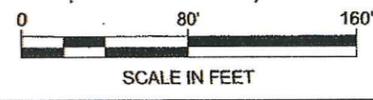


DESIGNED BY: M. CARSON
 DRAWN BY: M. CARSON, R. GRANHAM

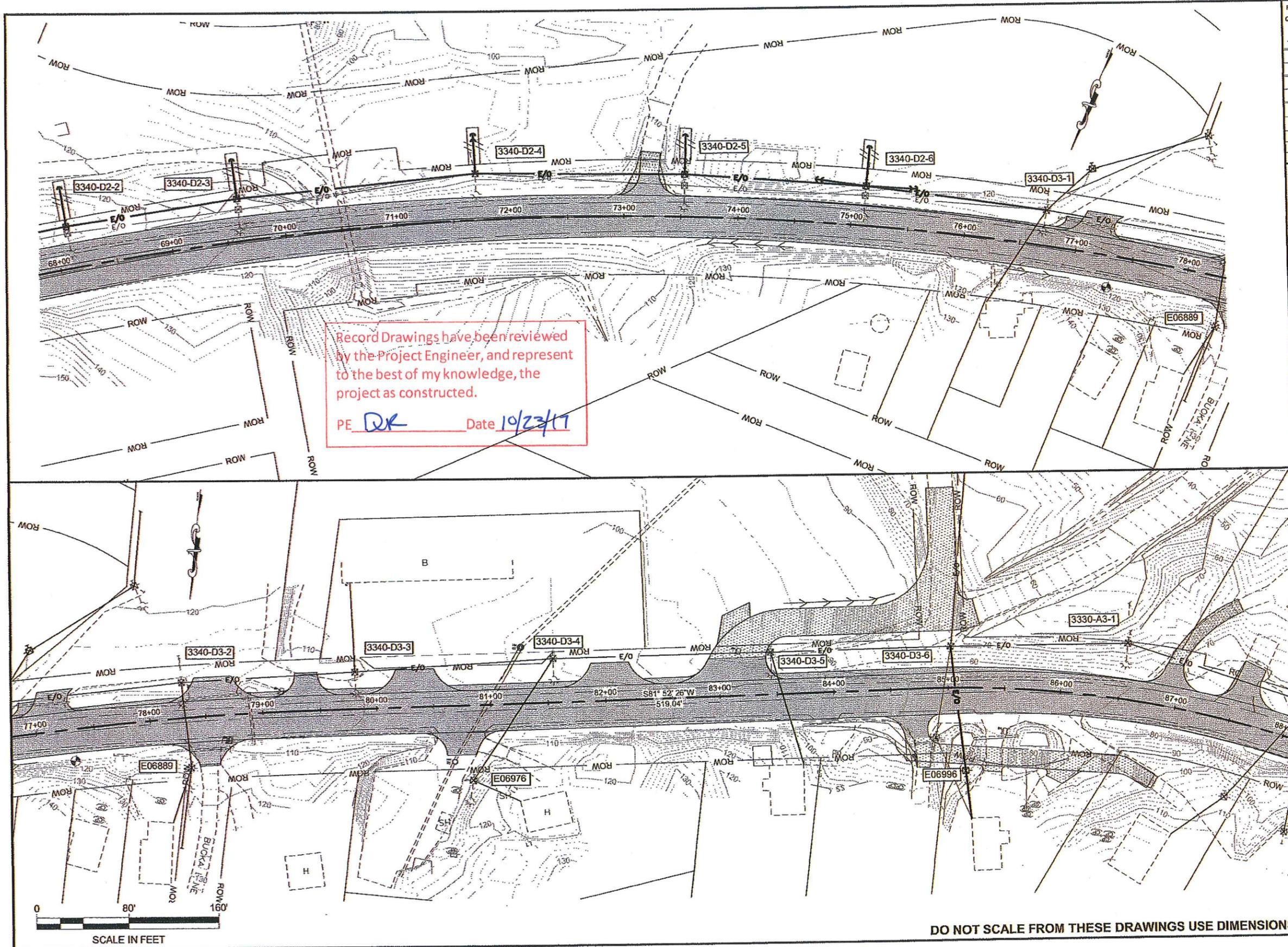
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION
 KTN - NORTH TONGASS HWY.
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

UTILITY PLAN
 PROJECT DESIGNATION

68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U2	100



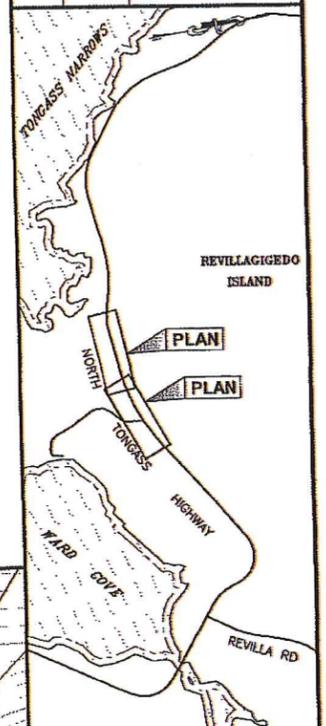
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE DK Date 10/23/17

PATH:
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 GRANHAM, RICK L (DOT)
 TAB: U3 Wednesday, January 09, 2013 12:31:41 P

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: M. CARSON



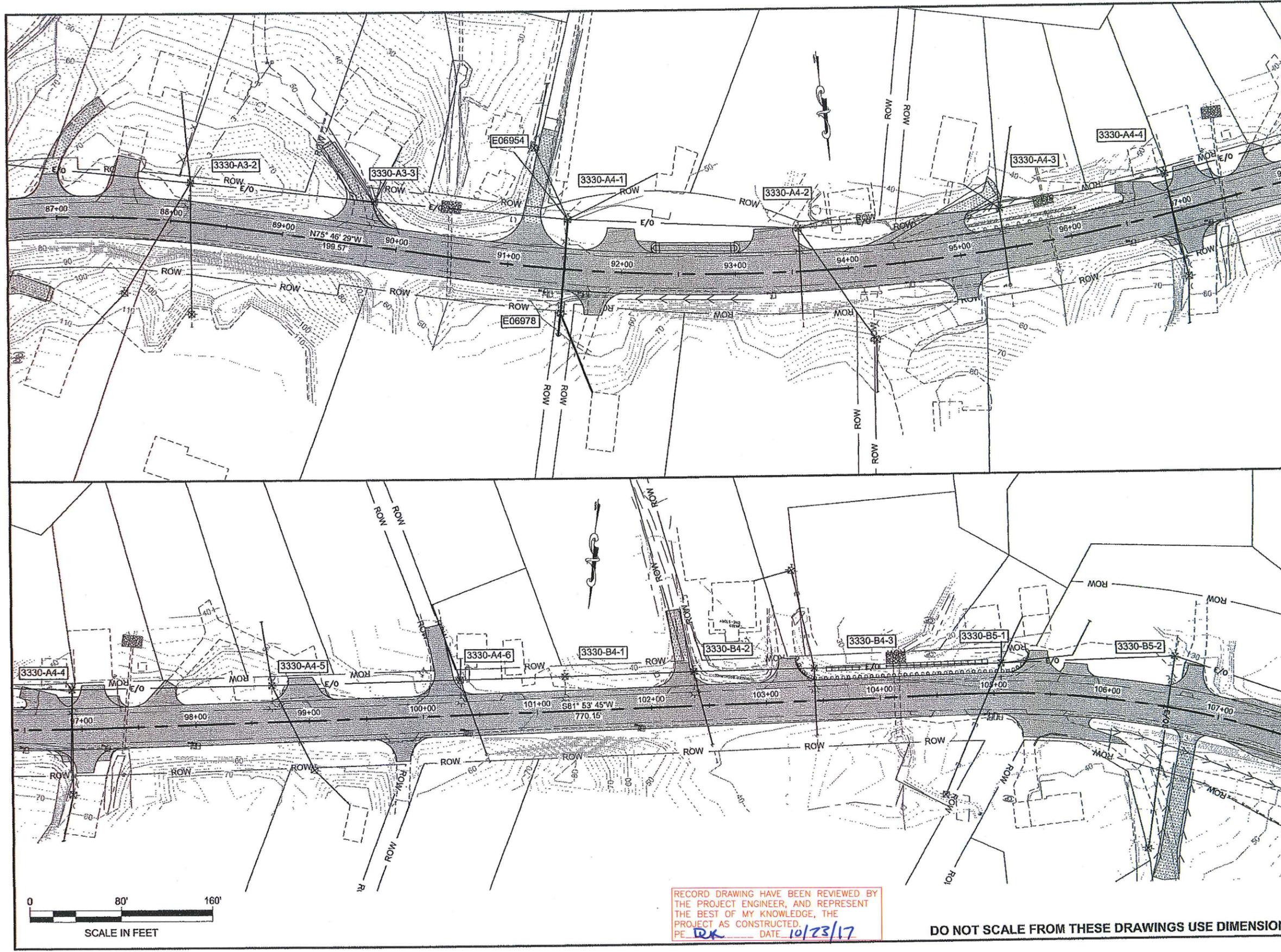
DESIGNED BY: M. CARSON
 DRAWN BY: M. CARSON, R. GRANHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION
 KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

UTILITY PLAN	
PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U3	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

SCALE IN FEET



PATH: Q:\KTN\68973\PLANSET\68973_U1-U5_ELEC.DWG
 GRANHAM, RICK L (DOT)
 TAB: U4 Wednesday, January 09, 2013 12:32:17 P

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN
 REVILLAGGEDO ISLAND
 PLAN
 TONGASS NARROWS
 NORTH
 TONGASS HIGHWAY
 WARD COVE
 REVILLA RO

PLAN LEGEND

CHECKED BY: M. CARSON

DESIGNED BY: M. CARSON

DRAWN BY: M. CARSON, R. GRANHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

UTILITY PLAN

PROJECT DESIGNATION

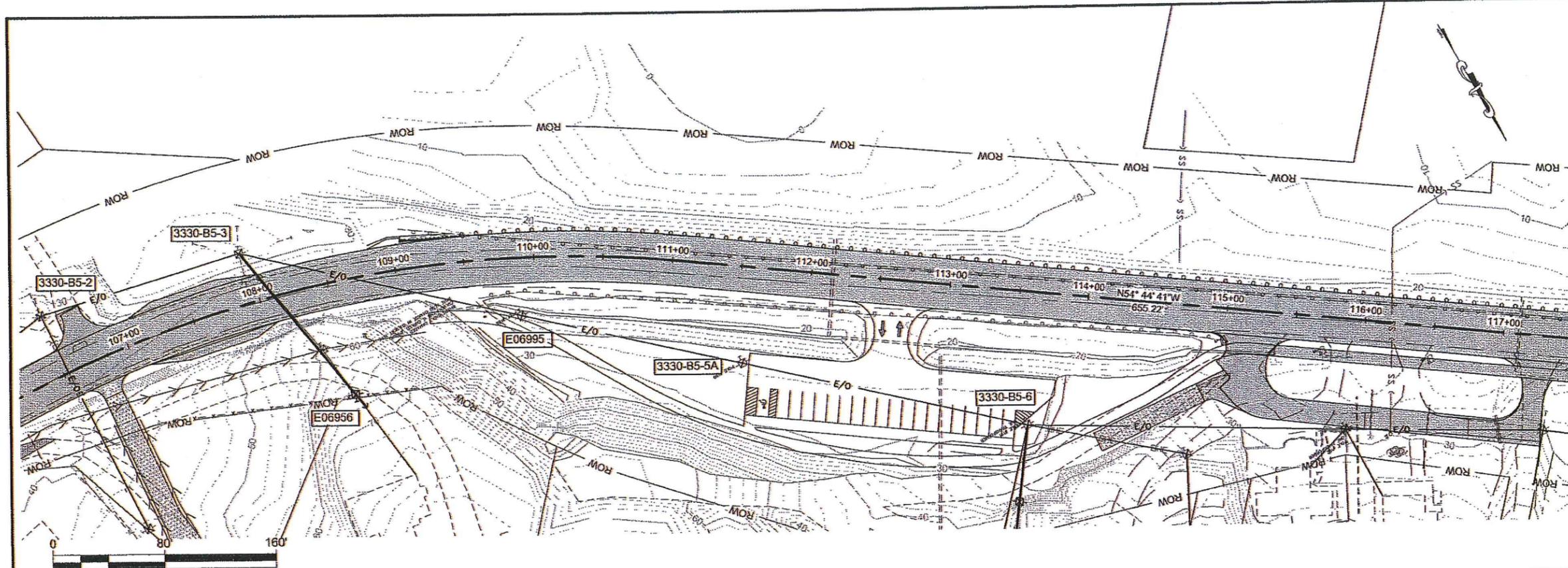
68973

STATE	YEAR
ALASKA	2013

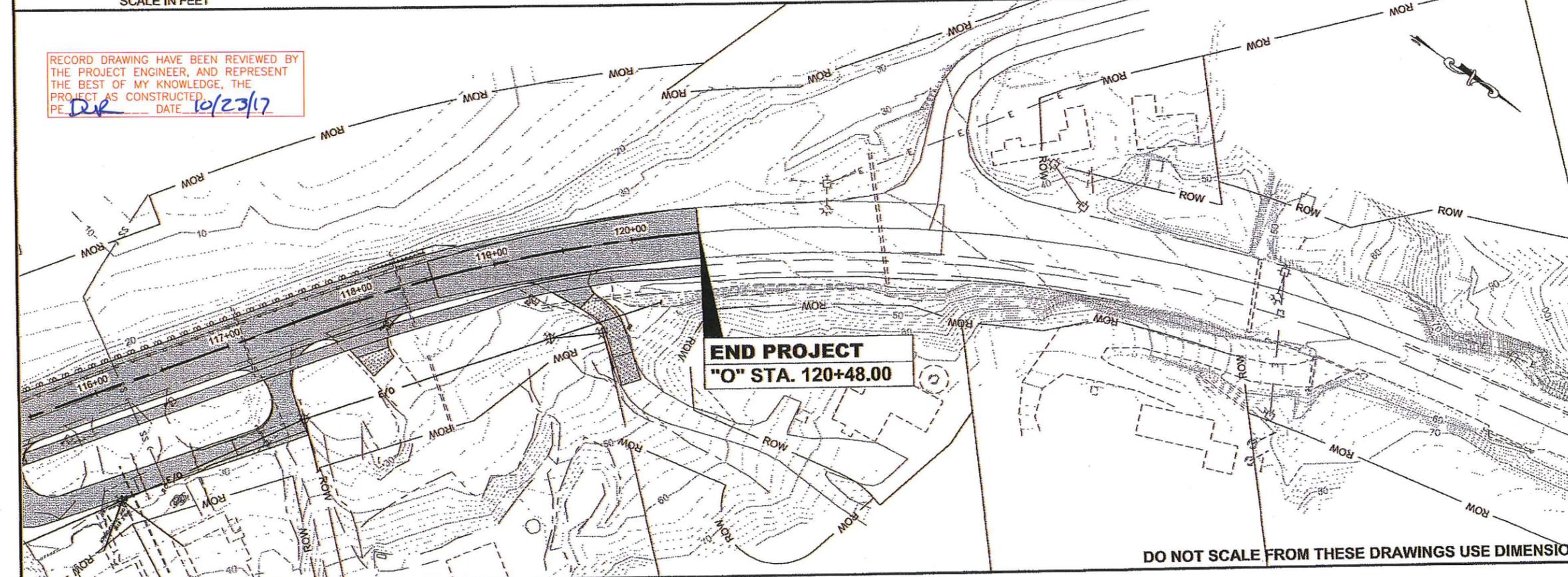
SHEET NUMBER	TOTAL SHEETS
U4	100

RECORD DRAWING HAVE BEEN REVIEWED BY
 THE PROJECT ENGINEER, AND REPRESENT
 THE BEST OF MY KNOWLEDGE, THE
 PROJECT AS CONSTRUCTED.
 PE RK DATE 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



SCALE IN FEET



RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE: *DJR* DATE: 10/23/17

**END PROJECT
 "O" STA. 120+48.00**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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GRANTHAM, RICK L. (DOT)
 TAR: U5 Wednesday, January 09, 2013 9:56:55 A

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN

PLAN

REVILLAGEDO ISLAND

TONGASS MARBOYS

NORTH TONGASS HIGHWAY

WARD COVE

REVILLA RD

PLAN LEGEND

CHECKED BY: M. CARSON

DESIGNED BY: M. CARSON

DRAWN BY: M. CARSON, R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

UTILITY PLAN

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U5	100

STAKING SHEET FOR RELOCATED KPU TRANSMISSION POLES (SHEET 1)
 PROJECT: 68973 DOT NORTH TONGASS HIGHWAY STAGE 3 ELECTRICAL DESIGN
 STAKED:
 RELEASED:
 REVISION:

NORTHSTAR POWER ENGINEERING
 VOLTAGE: 34.5 kV TRANSMISSION/12.5 kV UNDERBUILD
 TRANSMISSION CONDUCTOR: 4/0 ACSR PENGUIN
 UB CONDUCTOR: 336.4 KCM ACSR MERLIN
 NEUTRAL: 4/0 ACSR PENGUIN

LOCATION: REVILLA ROAD- BUCKA LANE REALIGNMENT
 RULING SPAN: 200 FT
 MAP REFERENCE:
 DATE: 10/12/2011

POLE NUMBER	STATION	OFFSET	LINE ANGLE	BACK SPAN	POLE H & C	POLE ELEVATION	TRANSM UNIT	DISTRIBUTION UNIT	TELCO UNIT	MISC UNIT	GRND	CONDUCTORS		GUYING				TRANSFORMER		SECONDARY			REMARKS		
												4/0 ACSR	336 ACSR	No.	GUY (E1-2)	LEAD	No.	ANC. (F2)	UNIT	SIZE	SIZE (#4 AL)	TYPE (DU)		LENGTH	UNIT (J 5)
(3310-C6-1)	38+66.33	78.75 LT			(50-2)	EG	(VC 2)	(C 2-2)		(ST LT)	(M2-12)	(645)	(484)	3	(E1-2)		2	(F2)	(G39)	25 kVA	(#4 AL)	DU	185	(2J 15)	STREET LIGHT TRANSFORMER
(3310-C6-2)	40+46.06	80.66 LT	11d. 34'54" RT	183.47	(55-2)	EG	(VC 2)/VC 8	(C 2-2)/C 8-11		(M5-9) (ST LT)	M2-11	(734)	(550)	3	(E1-2)		1	(F2)			(#4 AL)	DU		(J 15)	
(3310-C6-3)*	41+98.34	39.90 LT		157.64	(50-2)*	EG	(VC 1)*	(C9-1N)*			(M2-12)*	(631)*	(473)*								(#4 AL)	DU	190	J 5	
NEW 3310-C6-3	42+31.03	46.02 LT	19d. 24'8" LT	188.19	65-2	93.0	VC 2-R	C 2-2		(ST LT)	M2-12	753	565	1	E2-2A	93					(#4 AL)	DU			
NEW GUY STUB	42+29.56	47.00 RT			35-2	95.8								3	E1-2	25/30	2	F 2							
(3310-C6-4)*	43+52.51	12.14 RT		161.16	(55-2)*	EG	(VC 2)*	(C 2-2)*			(M2-12)*	(645)*	(483)*	3	(E1-2)*		1	(F2)*			(#4 AL)	DU	200	J 15	#2 ACSR THREE PHASE TAP TO POST OFFICE
NEW 3310-C6-4	44+43.76	46.00 LT	19d. 18'36" LT	197.39	65-2	111.9	VC 2-R	C 2-2		(3/M5-9) (ST LT)	M2-11	790	592	1	E1-2A	25	1	F 2			(#4 AL)	DU			
NEW GUY STUB	44+44.35	42.00 RT			35-2	113.7								1	E2-2A	88	1	E3-10							
NEW GUY STUB	44+44.35	42.00 RT			35-2	113.7								1	E2-2C	88									
NEW GUY STUB	44+44.35	42.00 RT			35-2	113.7								1	E2-2TEL	88									
NEW GUY STUB	44+44.35	42.00 RT			35-2	113.7								3	E1-2	30/35	2	F 2							
NEW E06883 TAP	43+89.51	146.49 RT	4d. 08'05" LT	200.82	50-2 (45-2)*	111.8 EG		C 8 (C 1NP)*			M2-12	#2 ACSR	804	1	E1-2A	12	1	F 2							POST OFFICE
(3310-C6-5)*	44+95.40	89.60 RT		161.88	(55-2)*	EG	(VC 2)*	(C 2-2)*			(M2-12)*	(648)*	(486)*	3	(E1-2)*		1	(F2)*							
(3310-C6-6)*	46+29.03	95.47 RT		152.25	(55-2)*	EG	(VC 2)*	(C 2-2)*			(M2-12)*	(609)*	(457)*	3	(E1-2)*		1	(F2)*							
NEW 3310-C6-6	46+75.53	46.01 LT	18d. 24'36" LT	214.51	65-2	129.1	VC 2-R	C 2-2		(ST LT)	M2-12	858	644	1	E2-2A	86									J 15
NEW GUY STUB	46+24.27	39.97 RT			40-2	125.8								1	E2-2C	86									
NEW GUY STUB	46+24.27	39.97 RT			40-2	125.8								1	E2-2TEL	86									
NEW GUY STUB	46+24.27	39.97 RT			40-2	125.8								3	E1-2	30/35	2	F 2							
(3310-C6-7)*	47+65.07	82.82 RT		154.65	(55-2)*	EG	(VC 2)*	(C 2-2)*			(M2-12)*	(619)*	(464)*	3	(E1-2)*		1	(F2)*			(#4 AL)	DU			(J 15)
(3310-D6-1)*	49+02.69	39.11 RT		156.23	(55-2)*	EG	(VC 2)*	(C 2-2)*			(M2-12)*	(625)*	(469)*	3	(E1-2)*		1	(F2)*			(#4 AL)	DU			(J 5)
NEW 3310-D6-1	49+06.00	39.71 LT	20d. 03'39" LT	214.50	65-2	141.3	VC 2-R	C 2-2		(ST LT)	M2-12	858	644	1	E2-2A	78			(G39)	10 kVA	(#4 AL)	DU	215	2J 15	STREET LIGHT TRANSFORMER
NEW GUY STUB	49+03.91	37.99 RT			40-2	141.4								1	E2-2C	78									FAN GUY TO AVOID WATER LINE
NEW GUY STUB	49+03.91	37.99 RT			40-2	141.4								1	E2-2TEL	78									TELEPHONE LIFT POLE
(TELEPHONE)*	50+38.93	12.26 LT		147.87	(45-2)*	EG								4	E1-2	33/33	2	F 2							
(E01590)*	51+39.87	30.15 LT		99.22	(65-2)*	EG	(VC 1)*	(C9-1N)* (C 7)*			(M2-12)*	(988)*	(741)*	2	(E1-2)*		1	(F2)*			(#4 AL)	DU			(2J 15)
NEW E01590	51+39.37	33.00 LT	18d. 21'36" LT	219.46	65-2	152.3	VC 2-R	C 2-2		(3/M5-9) (ST LT)	M2-11	878	658	2	E1-2A	25/30	2	F 2			(#4 AL)	DU	220	J 5	#2 ACSR THREE PHASE TAP TO KIAN STREET
NEW GUY STUB	51+39.37	33.00 LT	18d. 21'36" LT	219.46	65-2	152.3	VC 2-R	C 2-2		(3/M5-9) (ST LT)	M2-11	878	658	1	E2-2A	90	2	E3-10							
NEW GUY STUB	51+39.37	33.00 LT	18d. 21'36" LT	219.46	65-2	152.3	VC 2-R	C 2-2		(3/M5-9) (ST LT)	M2-11	878	658	1	E2-2C	90									
NEW GUY STUB	51+39.37	33.00 LT	18d. 21'36" LT	219.46	65-2	152.3	VC 2-R	C 2-2		(3/M5-9) (ST LT)	M2-11	878	658	1	E2-2TEL	90									
(E01587) TAP	51+51.16	55.29 RT		89.09	(50-2)	EG	(C9-1N)/C 8-2			(3/M5-9) M 5-16	(M2-11)	#2 ACSR	356	2	E1-2C	25/30	2	F 2	(G310)	3/50 kVA	(2-4/0 AL)	QPLEX	120	(2/K 15)	ALASKA STATE TROOPERS OFFICE LOWER CUTOOTS AND TRANSFORMER BANK
(E01587) TAP	51+51.16	55.29 RT		89.09	(50-2)	EG	(C9-1N)/C 8-2			(3/M5-9) M 5-16	(M2-11)	#2 ACSR	356	1	E1-2TEL	25/30	2	E3-10			(#4 AL)	DU			(J 15)

() INDICATES EXISTING UNITS; * INDICATES REMOVAL UNITS; {} INDICATES REMOVE & INSTALL UNITS

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE. DJK DATE 10/23/17

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: M. CARSON

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - N. TONGASS HWY STAGE 3
 WARD COVE TO REFUGE COVE

ELECTRICAL STAKING SHEET 1

DESIGNED BY: M. CARSON
 DRAWN BY: M. CARSON, R. GRANTHAM

PATH: Q:\KTN\68973\PLANSET\68973_U6-UB_STAKING.DWG
 TAB: U6 Wednesday, January 05, 2013 12:33:40 PM GRANTHAM, RICK L (DGT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68973	2013	U6	100

STAKING SHEET FOR RELOCATED KPU TRANSMISSION POLES (SHEET 2)

NORTHSTAR POWER ENGINEERING

PROJECT: 68973 DOT NORTH TONGASS HIGHWAY STAGE 3 ELECTRICAL DESIGN

VOLTAGE: 34.5 KV TRANSMISSION/12.5 KV UNDERBUILD

LOCATION: REVILLA ROAD- BUCKA LANE REALIGNMENT

STAKED:

TRANSMISSION CONDUCTOR: 4/0 ACSR PENGUIN

RULING SPAN: 200 FT

RELEASED:

UB CONDUCTOR: 336.4 KCM ACSR MERLIN

MAP REFERENCE:

REVISION:

NEUTRAL: 4/0 ACSR PENGUIN

DATE: 10/12/2011

POLE NUMBER	STATION	OFFSET	LINE ANGLE	BACK SPAN	POLE H & C	POLE ELEVATION	TRANSM UNIT	DISTRIBUTION UNIT	TELCO UNIT	MISC UNIT	GRND	CONDUCTORS		GUYING				TRANSFORMER		SECONDARY				REMARKS		
												4/0 ACSR	338 ACSR	No.	GUY	LEAD	No.	ANC.	UNIT	SIZE	TYPE	LENGTH	UNIT		SIZE	TYPE
(3310-D6-4)*	52+35.16	32.49 LT		90.71	(55-2)*	EG	(VC 1)*	(C9-1N)*			(M2-12)*	(363)*	(272)*							(#4 AL)	DU*		(J 15)*			
NEW 3310-D6-4	52+35.26	36.72 LT		90.81	65-2	157.2	VC1-R	C9-N		(ST LT)	M2-12	363	272							#4 AL	DU	95	J 15	MINIMUM CLEARANCE FROM POLE TO BLDG 20.3 FT MOVE OUTSIDE PHASE TO NEAR BRACE BOLT		
(3310-D6-5)*	53+97.42	26.69 LT		162.18	(55-2)*	EG	(VC 1)*	(C9-1N)*			(M2-12)*	(649)*	(487)*										(J 15)*			
NEW 3310-D6-5	53+62.06	32.00 LT	2d, 50°33' LT	126.69	65-2	161.6	VC 8-RM	C 8-2		(ST LT)	M2-12	507	380	1	E2-2A	65							J 15	INVERT CROSSARM BRACES FOR FUTURE 35 KV CB MINIMUM CLEARANCE FROM POLE TO BLDG 19.6 FT MOVE OUTSIDE PHASE TO NEAR BRACE BOLT ROCK ANCHOR MAY BE USED		
NEW GUY STUB	53+60.94	33.00 RT			30-2	165.7								3	E1-2	20	1	F 2								
(E06882)*	55+49.82	21.74 LT		152.46	(55-2)*	EG	(VC 1)*	(C9-1N)*			(M2-11)*	(610)*	(457)*	1	(E1-2)*					(#4 AL)	DU*		(2J 15)*			
NEW E06882	55+49.75	33.43 LT		187.69	65-2	164.8	VC 1-R	C9-1N		(3/M5-9) (ST LT)	M2-11	751	563	1	E1-2C	70	1	(F 2)	(G312)	3/25 KVA	4/0 AL	QPLX	100	2/K 15	35 KV THREE PHASE TAP TO SUBSTATION TONGASS SANITATION BUILDING	
SUBSTATION TAP	55+50.00	183.00 LT		150.00		EG	VC 7-1			3/M5-5		1/0 ACSR	(450)							4/0 AL	QPLX	125	2/K 15	TONGASS SANITATION BUILDING		
NEW 3340-D1-8 SP	55+09.89	56.82 RT			35-3 (35-3)*	187.7								1	E1-2A	12	1	F 3.16					2/K 15	TONGASS SANITATION BUILDING		
(3340-D1-2)*	57+37.41	20.55 LT		187.35	(60-2)*	EG	(VC 1)*	(C9-1N)*			(M2-12)*	(749)*	(562)*	1	(E1-2)*					(#4 AL)	DU*		(2J 15)*			
NEW 3340-D1-2	57+37.41	34.86 LT		187.24	65-2	162.6	VC1-R	C9-1N		(ST LT)	M2-12	749	562	1	E1-2A	25	1	F 2					J 5			
(3340-D1-10)TAP	57+63.59	80.92 RT		118.79	(45-2)	EG		(A 5)		(M5-9) (2/UM 5)	M2-11	#2 ACSR	238	1	(E1-2)		1	(F3.16)	(G9)	50	(2-1/0 AL)	TRI		(K 15)	EXISTING UG SERVICES	
(3340-D1-3)*	59+26.96	19.62 LT		189.81	(55-2)*	EG	(VC 2)*	(C 2-2)*			(M2-12)*	(759)*	(569)*	1	(E1-2)*					(#4 AL)	DU*		(2J 15)*			
NEW 3340-D1-3	59+26.86	36.30 LT		189.87	65-2	159.8	VC1-R	C9-1N		(ST LT)	M2-12	759	570							#4 AL	DU	190	J 15	SET POLE 2.0 FT DEEP RAISE B PHASE 32" WITH G1HAR124AH BRACKETS AND MACLEAN NPVN20XGO09S0 POST INSULATORS		
(3340-D1-4)	61+20.90	37.77 LT	0d, 33°21' RT	194.04	(55-2)	EG	(VC 2)	(C 2-2) (C 7)/(A 5-1)		(3/M5-9) (UM 5) (ST LT)	M2-11	(779)* 776	(584)* 582	1	(E1-2C)	40	1	(F 2) (E3-10)			(#4 AL) (#2 AL)	DU* UG		(2J 15) (K 15)	1/0 ACSR THREE PHASE TAP TO AMHS #2 ACSR SINGLE PHASE TAP ACROSS HIGHWAY	
(E06896)3 PH TAP	61+20.65	61.92 LT		24.05	(45-2)	EG		(C 8)		(M5-9)	(M2-11)	1/0 ACSR	(96)	2	(E1-2)		1	(F 2)	(G39)	15	(1/0 AL)	TRI		(K 15)	EXISTING SERVICE TO POLE 3340-D1-4	
(T101)1 PH TAP	62+28.21	167.67 RT		231.69	(50-2)	EG		(A 5)		(M5-9)	(M2-11)	#2 ACSR	(463)	1	(E1-2)		1	(F3.16) (E3-10)	(G9)	25	(1/0 AL)	TRI		(K 15)	EXISTING SERVICES	
(E06888)*	63+13.59	36.49 LT		192.70	(65-2)*	EG	(VC 1)*	(C9-1N)*				(771)*	(578)*							(1/0 AL)	TRI*		(2K 15)*			
NEW E06888	63+13.59	37.37 LT		192.70	65-2	139.1	VC1-R	C9-1N		(ST LT)	M2-12	771	578							#4 AL	DU	195	J 5			
(3340-D1-6)*	64+89.80	32.41 LT		176.25	(60-2)*	EG	(VC 1)*	(C9-1N)*			(M2-12)*	(705)*	(529)*							(1/0 AL)	TRI*		(2K 15)*			
NEW 3340-D1-6	65+09.72	36.96 LT		196.12	65-2	134.5	VC1-R	C9-1N		M5-9 (ST LT)	M2-11	785	588							G39	15	#4 AL	DU	200	J 15 K 15	AMHS ADMINISTRATION ENTRANCE MOVE POLE 20 FT AHEAD ON LINE TRANSFORMER FURNISHED BY KPU
(3340-D2-1)*	66+70.43	30.37 LT		180.65	(55-2)*	EG	(VC 1)*	(C9-1N)*			(M2-12)*	(723)*	(542)*							(1/0 AL)	TRI*		(3/K 15)*			
NEW 3340-D2-1	66+70.43	36.62 LT		160.72	65-2	128.6	VC 1-R	C 9-1N C 7		(3/M5-9) (ST LT)	M2-11	643	482	1	E1-2A	20	1	F 2 E3-10			1/0 AL	TRI	180	2/K 15 J 15	1/0 ACSR THREE PHASE TAP SET POLE 2.0 FT DEEP	
(E06898)TAP	66+85.08	81.32 LT		47.04	(45-2)	EG		(C 8)		3/M5-5		1/0 ACSR	(188)	2	(E1-2)		1	(F 2) (E3-10)			1/0 AL	TRI	140	(K 15) (MOP)	EXISTING SERVICE ACROSS HWY	
(3340-D2-11)SP	66+46.81	99.96 RT			(35-3)	EG								1	(E1-2)		1	(F3.16) (E3-10)								

() INDICATES EXISTING UNITS; * INDICATES REMOVAL UNITS; () INDICATES REMOVE & INSTALL UNITS

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CHECKED BY: M. CARSON 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: M. CARSON DRAWN BY: M. CARSON, R. GRANTHAM		KTN - N. TONGASS HWY STAGE 3 WARD COVE TO REFUGE COVE	
PATH: Q:\KTN\68973\PLANSET\68973_U6-U9_STAKING.DWG TAB: U7 Wednesday, January 09, 2013 12:34:16 PM GRANTHAM, RICK L (BOT)		ELECTRICAL STAKING SHEET 2	
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION 68973	
YEAR 2013		SHEET NO. U7	
TOTAL SHEETS 100			

RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE *TRX* DATE 10/23/17

STAKING SHEET FOR RELOCATED KPU TRANSMISSION POLES (SHEET 3)
 PROJECT: 68973 DOT NORTH TONGASS HIGHWAY STAGE 3 ELECTRICAL DESIGN
 STAKED:
 RELEASED:
 REVISION:

NORTHSTAR POWER ENGINEERING
 VOLTAGE: 34.5 kV TRANSMISSION/12.5 kV UNDERBUILD
 TRANSMISSION CONDUCTOR: 4/0 ACSR PENGUIN
 UB CONDUCTOR: 336.4 kCM ACSR MERLIN
 NEUTRAL: 4/0 ACSR PENGUIN

LOCATION: REVILLA ROAD-BUCKA LANE REALIGNMENT
 RULING SPAN: 200 FT
 MAP REFERENCE:
 DATE: 10/12/2011

POLE NUMBER	STATION	OFFSET	LINE ANGLE	BACK SPAN	POLE H & C	POLE ELEVATION	TRANSM UNIT	DISTRIBUTION UNIT	TELCO UNIT	MISC UNIT	GRND	CONDUCTORS		GUYING			TRANSFORMER		SECONDARY				REMARKS					
												4/0 ACSR	336 ACSR	No.	GUY	LEAD	No.	ANC.	UNIT	SIZE	SIZE	TYPE		LENGTH	UNIT			
(3340-D2-2)*	68+11.54	30.51	LT		141.53	(55-2)*	EG	(VC 2)*	(C 2-2)*			(2/UM 5)*	(566)*	(425)*	1	(E1-2)*					(#4 AL)	DU*		(2/K 15)*				
NEW 3340-D2-2	68+11.54	36.56	LT	2d. 25'30" RT	141.61	60-2	124.8	VC 2-R	C 2-2			(ST LT)	M2-12	568	425	1	E1-2A	35	1	F 2		#4 AL	DU	145	J 5			
(3340-D2-3)*	69+62.27	27.29	LT		152.32	(60-2)*	EG	(VC 1)*	(C9-1N)*			(M2-12)*	(609)*	(457)*								(#4 AL)	DU*		(2/K 15)*			
NEW 3340-D2-3	69+62.09	36.56	LT	3d. 17'23" RT	152.76	65-2	116.7	VC 2-R	C 2-2			(ST LT)	M2-12	611	458	1	E1-2A	35	1	F 2		#4 AL	DU	155	J 15			
(3340-D2-4)*	71+70.68	39.85	LT		211.61	(65-2)*	EG	(VC 2)*	(C 2-2)*				(846)*	(635)*	3	(E1-2)*						(#4 AL)	DU*		(2/K 15)*			
NEW 3340-D2-4	71+70.68	39.85	LT	6d. 19'49" RT	211.65	70-2	108.0	VC 2-R	C 2-2			(ST LT)	M2-12	847	635	1	E1-2A	30/35	2	F 2					J 15	ADD 2 FT FILL AROUND POLE FOR 60 FT AFG MAX.		
(3340-D2-5)*	73+52.82	27.01	LT		185.10	(60-2)*	EG	(VC 1)*	(C9-1N)*			(M2-12)*	(740)*	(555)*												(K 15)*		
NEW 3340-D2-5	73+52.84	36.94	LT	3d. 37'12" RT	185.05	65-2	114.2	VC 2-R	C 2-2			(ST LT)	M2-12	740	555	1	E1-2A	35	1	F 2		#4 AL	DU	185	J 5			
(3340-D2-6)*	75+10.67	26.87	LT		159.59	(60-2)*	EG	(VC 2)*	(C 2-2)*			(M2-11)*	(638)*	(479)*	1	(E1-2)*						(#4 AL)	DU*		(2/K 15)*			
NEW 3340-D2-6	75+10.64	35.43	LT	4d. 2'11" RT	160.19	60-2	122.4	VC 8-R	C 8-2			(M5-9)	M2-11	641	481	3	E1-2A	35	5	F 2	{G39 15}	#4 AL	DU	160	J 15			
												(ST LT)				3	E1-2C	40/45 AHBK	5	E3-10					K 15			
																3	E1-2TEL											
(3340-D3-1)	76+69.89	32.91	LT	2d. 13'22" RT	161.46	(60-2)	EG	(VC 2)	(C 2-2)			(ST LT)	(M2-12)	(646)	(484)	2	(E1-2)					1/0 AL	TRI	165	(3/K 15)	1/0 ACSR THREE PHASE TAP		
																						(#2 AL)	TRI		(MOH)	EXISTING SERVICE ACROSS HWY		
(E06881)TAP	77+03.17	74.65	LT		53.84	(45-2)	EG		(C 8)				1/0 ACSR	(215)	2	(E1-2)												
(3340-D3-2)	78+30.24	34.63	LT	2d. 56'15" RT	162.53	(50-2)	EG	(VC 2)	(C 2-2)			(M5-9)	(M2-11)	(650)	(488)	3	(E1-2)					(#4 AL)	DU	165	(J 15)	#2 ACSR SINGLE PHASE TAP		
												(ST LT)																
(E06889)TAP	78+33.70	39.76	LT		74.46	(45-2)	EG		(A 1)			(M5-9)	(M2-11)	#2 ACSR	(149)							(G39 15)	(#2 AL)	TRI		(K 15)	BUCKA LANE	
												(ST LT)															(MOH)	EXISTING SERVICE

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 PE DK DATE 10/23/17

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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - N. TONGASS HWY STAGE 3
 WARD COVE TO REFUGE COVE

ELECTRICAL STAKING SHEET 3

DESIGNED BY: M. CARSON
 DRAWN BY: M. CARSON, R. GRANHAM

PATH: Q:\KTN\68973\PLANSET\68973_U6-U9_STAKING.DWG
 TAB: U8 Wednesday, January 09, 2013 12:34:46 PM GRANHAM, RICK L (DOT)

REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE				
		68973	2013	U8	100

STAKING SHEET FOR RETAINED KPU TRANSMISSION POLES (SHEET 1)

NORTHSTAR POWER ENGINEERING

PROJECT: 68973 DOT NORTH TONGASS HIGHWAY STAGE 3 ELECTRICAL DESIGN

VOLTAGE: 34.5 kV TRANSMISSION/12.5 kV UNDERBUILD

LOCATION: BUCKA LANE TO REFUGE COVE

STAKED:

TRANSMISSION CONDUCTOR: 4/0 ACSR PENGUIN

RULING SPAN: 200 FT

RELEASED:

UB CONDUCTOR: 336.4 kCM ACSR MERLIN

MAP REFERENCE:

REVISION:

NEUTRAL: 4/0 ACSR PENGUIN

DATE: 10/12/2011

POLE NUMBER	STATION	OFFSET	LINE ANGLE	BACK SPAN	POLE H & C	POLE ELEVATION	TRANSM UNIT	DISTRIBUTION UNIT	TELCO UNIT	MISC UNIT	GRND	GUYING				TRANSF				SECONDARY		REMARKS			
												No.	GUY	LEAD	No.	ANC.	UNIT	SIZE	SIZE	TYPE	LENGTH		UNIT		
(3340-D3-6)	85+03.00	40.78 LT	1d. 30'00" RT	---	(60-2)	EG	(VC 1)	(C 9-1N)		(M5-9)	(M2-12)	1	(E1-2A)	1	(F 2)			(1/0 AL)	TRI)			(2/K15)	EXISTING SERVICE ACROSS HIGHWAY		
(E06996)* SP	84+88.75	38.08 RT			(40-3)*	EG		(A 5-1)		(ST LT)		1	(E1-2TEL)					(#2 AL)	TRI)*	160		(2/K 15)*			
NEW E06996 SP	85+11.42	68.00 RT			45-2	91.0						1	E1-2A	12	1	F 3.16		1/0 AL	TRI	155		2/K 15	NEW SERVICE POLE		
												1	E1-2TEL		1	E3-10						(MOH)	EXISTING METER/DISCONNECT		
(3330-A4-1)	91+48.77	43.50 LT	2d. 48'52" LT	---	(55-2)	EG	(VC 1)	(C9-1N)		(ST LT)	(M2-12)	1	(E2-2)*	75				(1/0 AL)	TRI)			(2/K15)	EXISTING SERVICE ACROSS HIGHWAY		
(E06954)TAP	91+12.77	103.13 LT			(45-2)	EG		(C 7)				1	E2-2A	82										1/0 ACSR THREE PHASE TAP	
								(C 8)				2	(E1-2)		1	(F3,16)									
(E06978)*GS-SP	91+47.97	31.10 RT			(40-2)*	EG						2	(E1-2)*		1	(F 2)*		(1/0 AL)	TRI)*	75		(2/K15)*			
NEW E06978 GS-SP	91+47.96	38.51 RT			45-2	51.0						1	E1-2A	20	1	F 2		1/0 AL	TRI	85		2/K15	NEW GUY STUB-SERVICE POLE		
												1	E1-2TEL		1	E3-10		(1/0 AL)	TRI)	75		(MOH)	EXISTING METER/DISCONNECT		
(3330-B4-3)	103+42.36	28.52 LT			(55-2)	EG	(VC 1)	(C9-1N)		(M5-9)	(M2-11)	1	(E2-2)		1		(G39	10)	(1/0 AL)	TRI)			(2/K15)	EXISTING SERVICE	
										(ST LT)														VERIFY CLEARANCE TO RETAINING WALL	
(3330-B4-7)GS-SP	103+42.03	30.21 RT			(35-2)	EG						1	(E1-2)		1	(F 2)								EXISTING GUY STUB	
(3330-B5-1)	105+05.49	26.34 LT		164.15	(55-2)	EG	(VC 1)	(C9-1N)		(M5-9)	(M2-11)						(G39	25)	(4-#2-1/0 AL)	TRI)			(4/K15)	FOUR EXISTING SERVICES	
								(ST LT)															(4/MOH)	VERIFY CLEARANCE TO RETAINING WALL	
(3330-B5-3)	107+93.63	35.85 LT	29d. 36'47" RT	---	(50-2)	EG	(VC 8)	(C 8-2)		(ST LT)	(M2-11)	3	(E1-2A)		5	(F 2)		(1/0 AL)	TRI)				(2/K15)	EXISTING SERVICE ACROSS HIGHWAY	
												3	(E1-2C)												
												2	(E1-2TEL)												
(E06956)* SP	108+34.69	45.25 RT			(20-2)*	EG												(1/0 AL)	TRI)*	95			(K 15)*		
NEW E06956 SP	108+52.50	83.00 RT			35-2	EG						1	E1-2A	12	1	F 3.16		1/0 AL	TRI	135		K 15	INTERCEPT 4/0 AL TRIPLEX UNDERGROUND SERVICE		
												1	E1-2TEL		1	E3-10							(RISER)	RELOCATE UG SERVICE RISER	
																							(2/MOH)		
(3330-B5-6)	113+62.30	92.42 RT	11d. 12'47" LT	---	(55-2)	EG	(VC 2)	(C 2-2)		(M5-9)	(M2-11)	3	(E1-2)*		1	(F 2)*	(G39	10)	(2-#2 AL)	TRI)			(2/K15)	TWO EXISTING SERVICES	
										(ST LT)		1	E2-2A	55										(2/MOH)	
												1	E2-2C	55											
												1	E2-2TEL	55											
NEW GUY STUB	113+60.78	149.40			35-2	EG						3	E1-2	20/25	2	F 2									ROCK ANCHORS MAY BE USED
															2	E3-10									

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RECORD DRAWING HAVE BEEN REVIEWED BY THE PROJECT ENGINEER, AND REPRESENT THE BEST OF MY KNOWLEDGE, THE PROJECT AS CONSTRUCTED.
 PE. DK DATE 10/23/17

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CHECKED BY: M. CARSON

DESIGNED BY: M. CARSON
 DRAWN BY: M. CARSON, R. GRANTHAM

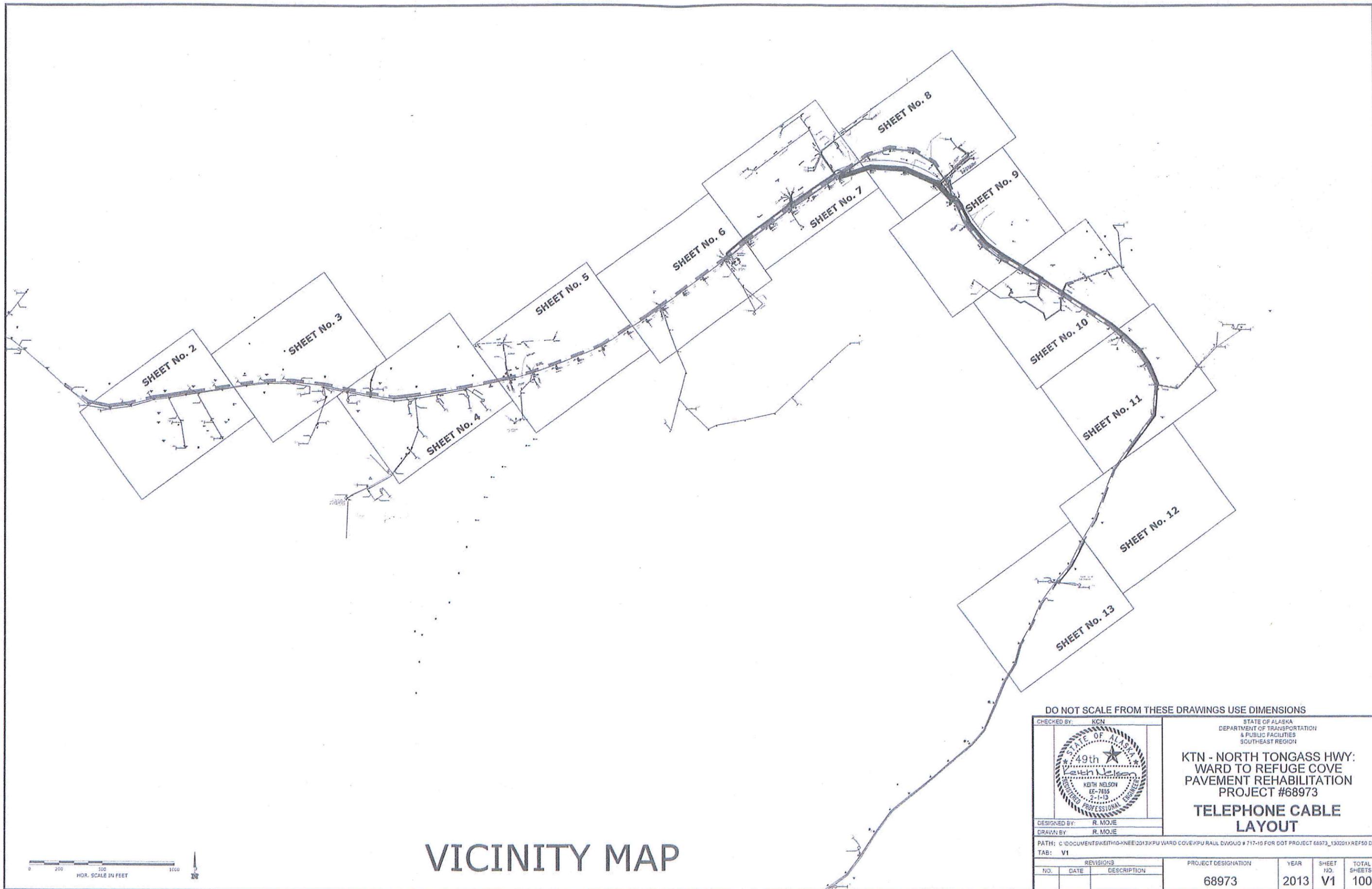
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - N. TONGASS HWY STAGE 3
 WARD COVE TO REFUGE COVE

STAKING SHEET 4

PATH: Q:\KTN\68973\PLANSET\68973_U5-U9_STAKING.DWG
 TAB: U9 Wednesday, January 05, 2013 12:35:10 PM GRANTHAM, RICK L (DOT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68973	2013	U9	100



VICINITY MAP

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: KCN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION												
DESIGNED BY: R. MOJE DRAWN BY: R. MOJE		KTN - NORTH TONGASS HWY: WARD TO REFUGE COVE PAVEMENT REHABILITATION PROJECT #68973 TELEPHONE CABLE LAYOUT												
PATH: C:\DOCUMENTS\KETH\04-NNE\2013\KPU WARD COVE\KPU RAUL DWG\0 717-10 FOR DOT PROJECT 68973_130201X\REF50.DWG TAB: V1														
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				PROJECT DESIGNATION 68973	YEAR 2013	SHEET NO. V1	TOTAL SHEETS 100
REVISIONS														
NO.	DATE	DESCRIPTION												

TAB V2

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

---+---+---	PROP. AERIAL FOC
---+---	PROP. FOC LONG TAIL TERM.
---	PROP. AERIAL COPPER CABLE
---	EXISTING AERIAL FOC
---+---	EX. FOC LONG TAIL TERM.
---	EX. AERIAL COPPER CABLE
---	EX. AER. FOC TO BE REMOVED
---	EX. FOC LONG TAIL TO BE REMOVED
---	EX. COPPER CABLE TO BE REMOVED
⊗	PROPOSED POLE
⊗	EXISTING POLE
⊗	PROP. DOUBLE X-ARM ON PROP. POLE
⊗	EX. POLE & EX. DOUBLE X-ARM TO BE REMOVED
⊗	EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
⊗	EX. DOUBLE X-ARM ON EX. POLE
⊗	EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
⊗	EX. GUY & ANCHOR TO BE REMOVED
⊗	PROP. GUY & ANCHOR WITH PROP. LEAD
⊗	EXISTING FIBER SLACK LOOP
⊗	PROP. FIBER SLACK LOOP
⊗	EX. AER. FIBER TERMINAL
⊗	EX. AER. COPPER TERMINAL
⊗	EX. FOC SPLICE POINT
⊗	PROP. SPLICE ON EX. FIBER SPLICE POINT

PLAN LEGEND

CHECKED BY: KCN

DESIGNED BY: R. MOJE
DRAWN BY: R. MOJE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

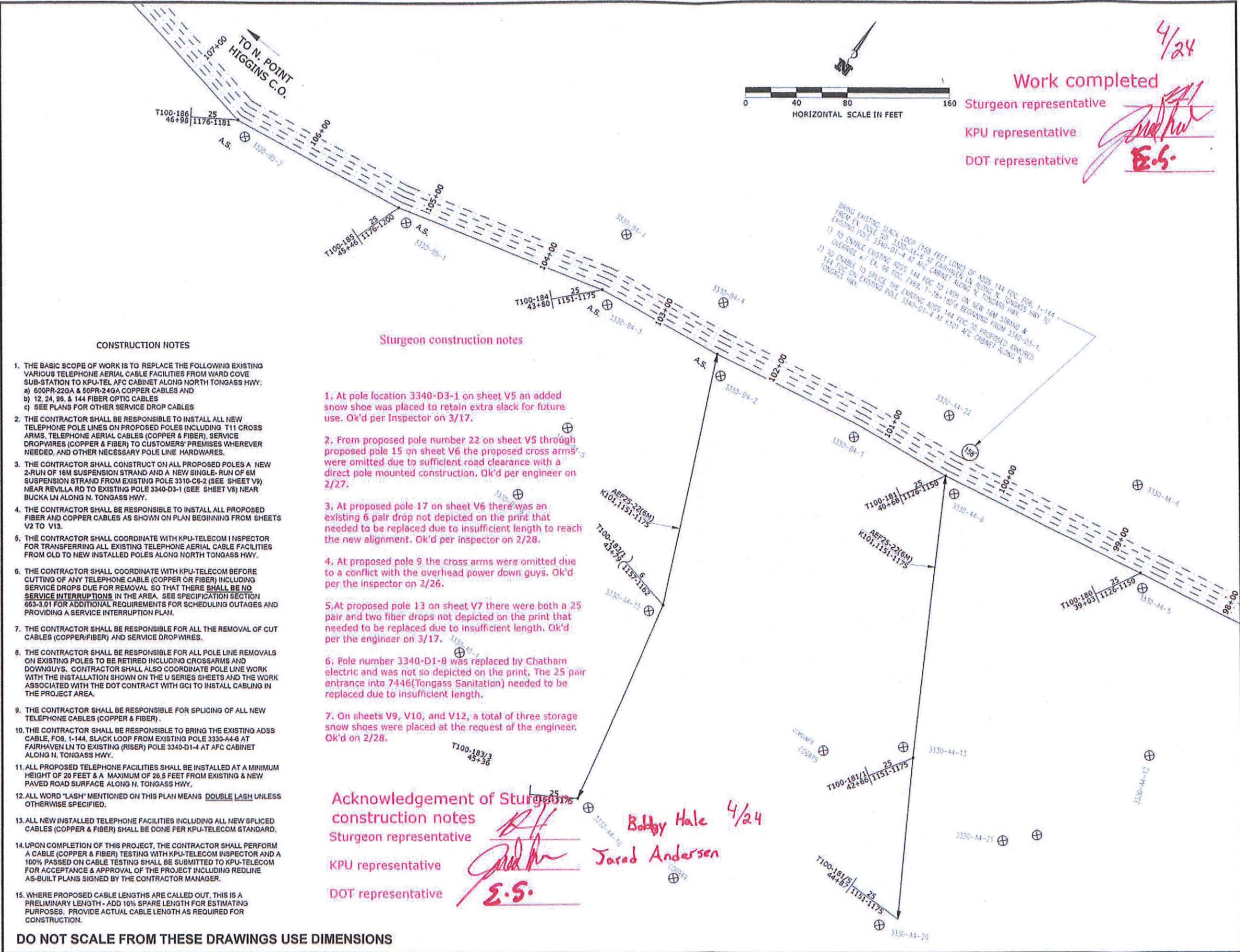
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

TELEPHONE CABLE LAYOUT

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
V2	100



4/24

Work completed
Sturgeon representative
KPU representative
DOT representative

[Signatures]

CONSTRUCTION NOTES

- THE BASIC SCOPE OF WORK IS TO REPLACE THE FOLLOWING EXISTING VARIOUS TELEPHONE AERIAL CABLE FACILITIES FROM WARD COVE SUB-STATION TO KPU-TEL AFC CABINET ALONG NORTH TONGASS HWY:
 - 600PR-22GA & 50PR-24GA COPPER CABLES AND
 - 12, 24, 96, & 144 FIBER OPTIC CABLES
 - SEE PLANS FOR OTHER SERVICE DROP CABLES
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL NEW TELEPHONE POLE LINES ON PROPOSED POLES INCLUDING T11 CROSS ARMS, TELEPHONE AERIAL CABLES (COPPER & FIBER), SERVICE DROP WIRES (COPPER & FIBER) TO CUSTOMERS' PREMISES WHEREVER NEEDED, AND OTHER NECESSARY POLE LINE HARDWARES.
- THE CONTRACTOR SHALL CONSTRUCT ON ALL PROPOSED POLES A NEW 2-RUN OF 16M SUSPENSION STRAND AND A NEW SINGLE-RUN OF 6M SUSPENSION STRAND FROM EXISTING POLE 3330-C6-2 (SEE SHEET V9) NEAR REVILLA RD TO EXISTING POLE 3340-D3-1 (SEE SHEET V5) NEAR BUCKA LN ALONG N. TONGASS HWY.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL PROPOSED FIBER AND COPPER CABLES AS SHOWN ON PLAN BEGINNING FROM SHEETS V2 TO V13.
- THE CONTRACTOR SHALL COORDINATE WITH KPU-TELECOM INSPECTOR FOR TRANSFERRING ALL EXISTING TELEPHONE AERIAL CABLE FACILITIES FROM OLD TO NEW INSTALLED POLES ALONG NORTH TONGASS HWY.
- THE CONTRACTOR SHALL COORDINATE WITH KPU-TELECOM BEFORE CUTTING OF ANY TELEPHONE CABLE (COPPER OR FIBER) INCLUDING SERVICE DROPS DUE FOR REMOVAL SO THAT THERE SHALL BE NO SERVICE INTERRUPTIONS IN THE AREA. SEE SPECIFICATION SECTION 663-3.01 FOR ADDITIONAL REQUIREMENTS FOR SCHEDULING OUTAGES AND PROVIDING A SERVICE INTERRUPTION PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE REMOVAL OF CUT CABLES (COPPER/FIBER) AND SERVICE DROP WIRES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POLE LINE REMOVALS ON EXISTING POLES TO BE RETIRED INCLUDING CROSSARMS AND DOWNGUYS. CONTRACTOR SHALL ALSO COORDINATE POLE LINE WORK WITH THE INSTALLATION SHOWN ON THE U SERIES SHEETS AND THE WORK ASSOCIATED WITH THE DOT CONTRACT WITH GCI TO INSTALL CABLING IN THE PROJECT AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPLICING OF ALL NEW TELEPHONE CABLES (COPPER & FIBER).
- THE CONTRACTOR SHALL BE RESPONSIBLE TO BRING THE EXISTING ADSS CABLE, F06, 1-144, SLACK LOOP FROM EXISTING POLE 3330-A4-6 AT FAIRHAVEN LN TO EXISTING (RISER) POLE 3340-D1-4 AT AFC CABINET ALONG N. TONGASS HWY.
- ALL PROPOSED TELEPHONE FACILITIES SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 20 FEET & A MAXIMUM OF 26.5 FEET FROM EXISTING & NEW PAVED ROAD SURFACE ALONG N. TONGASS HWY.
- ALL WORD "LASH" MENTIONED ON THIS PLAN MEANS DOUBLE LASH UNLESS OTHERWISE SPECIFIED.
- ALL NEW INSTALLED TELEPHONE FACILITIES INCLUDING ALL NEW SPLICED CABLES (COPPER & FIBER) SHALL BE DONE PER KPU-TELECOM STANDARD.
- UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL PERFORM A CABLE (COPPER & FIBER) TESTING WITH KPU-TELECOM INSPECTOR AND A 100% PASSED ON CABLE TESTING SHALL BE SUBMITTED TO KPU-TELECOM FOR ACCEPTANCE & APPROVAL OF THE PROJECT INCLUDING REDLINE AS-BUILT PLANS SIGNED BY THE CONTRACTOR MANAGER.
- WHERE PROPOSED CABLE LENGTHS ARE CALLED OUT, THIS IS A PRELIMINARY LENGTH - ADD 10% SPARE LENGTH FOR ESTIMATING PURPOSES. PROVIDE ACTUAL CABLE LENGTH AS REQUIRED FOR CONSTRUCTION.

Sturgeon construction notes

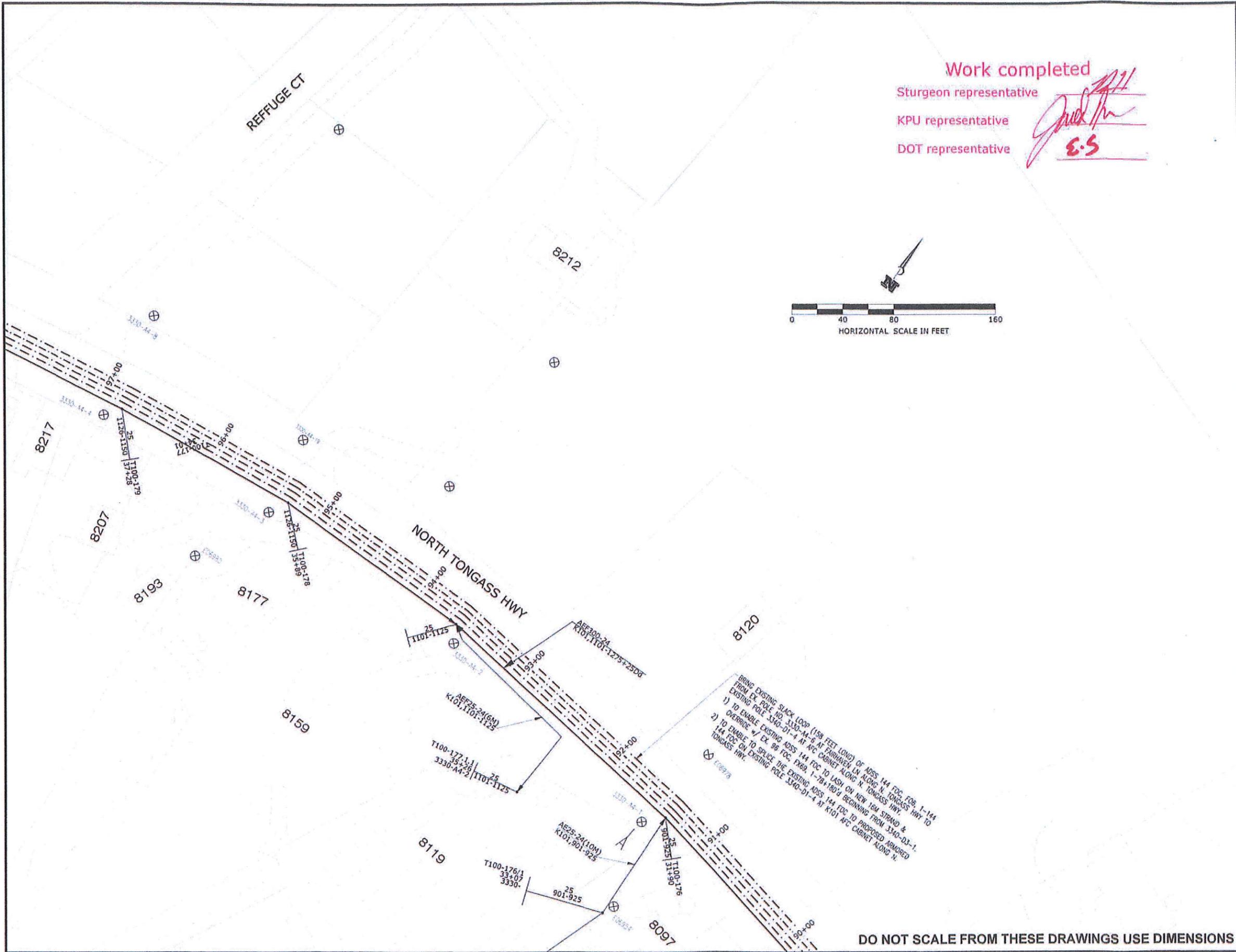
- At pole location 3340-D3-1 on sheet V5 an added snow shoe was placed to retain extra slack for future use. Ok'd per Inspector on 3/17.
- From proposed pole number 22 on sheet V5 through proposed pole 15 on sheet V6 the proposed cross arms were omitted due to sufficient road clearance with a direct pole mounted construction, Ok'd per engineer on 2/27.
- At proposed pole 17 on sheet V6 there was an existing 6 pair drop not depicted on the print that needed to be replaced due to insufficient length to reach the new alignment. Ok'd per inspector on 2/28.
- At proposed pole 9 the cross arms were omitted due to a conflict with the overhead power down guys. Ok'd per the inspector on 2/26.
- At proposed pole 13 on sheet V7 there were both a 25 pair and two fiber drops not depicted on the print that needed to be replaced due to insufficient length. Ok'd per the engineer on 3/17.
- Pole number 3340-D1-8 was replaced by Chatham electric and was not so depicted on the print. The 25 pair entrance into 7446 (Tongass Sanitation) needed to be replaced due to insufficient length.
- On sheets V9, V10, and V12, a total of three storage snow shoes were placed at the request of the engineer. Ok'd on 2/28.

Acknowledgement of Sturgeon
construction notes
Sturgeon representative

[Signature] Bobby Hale 4/24
KPU representative

[Signature] Jared Andersen
DOT representative

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



Work completed
 Sturgeon representative *[Signature]*
 KPU representative *[Signature]*
 DOT representative *[Signature]*

PATH: C:\DOCUMENTS\KEITH\6-KNEE\2013\KPU
 WARD COVE\KPU RAUL DWG\JO # 717-10
 FOR DOT PROJECT
 68973_130201XREF59V2.DWG

TAB V3

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PLAN LEGEND

---●---●---	PROP. AERIAL FOC
---AF---	PROP. FOC LONG TAIL TERM.
---	PROP. AERIAL COPPER CABLE
---	EXISTING AERIAL FOC
---	EX. FOC LONG TAIL TERM.
---	EX. AERIAL COPPER CABLE
---	EX. AER. FOC TO BE REMOVED
---	EX. FOC LONG TAIL TO BE REMOVED
---	EX. COPPER CABLE TO BE REMOVED
⊗	PROPOSED POLE
⊗	EXISTING POLE
⊗	PROP. DOUBLE X-ARM ON PROP. POLE
⊗	EX. POLE & EX. DOUBLE X-ARM TO BE REMOVED
⊗	EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
⊗	EX. DOUBLE X-ARM ON EX. POLE
⊗	EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
⊗	EX. GUY & ANCHOR TO BE REMOVED
⊗	PROP. GUY & ANCHOR with PROP. LEAD
⊗	EXISTING FIBER SLACK LOOP
⊗	PROP. FIBER SLACK LOOP
⊗	EX. AER. FIBER TERMINAL
⊗	EX. AER. COPPER TERMINAL
⊗	EX. FOC SPLICE POINT
⊗	PROP. SPLICE ON EX. FIBER SPLICE POINT

CHECKED BY: KCN

DESIGNED BY: R. MOJE
 DRAWN BY: R. MOJE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

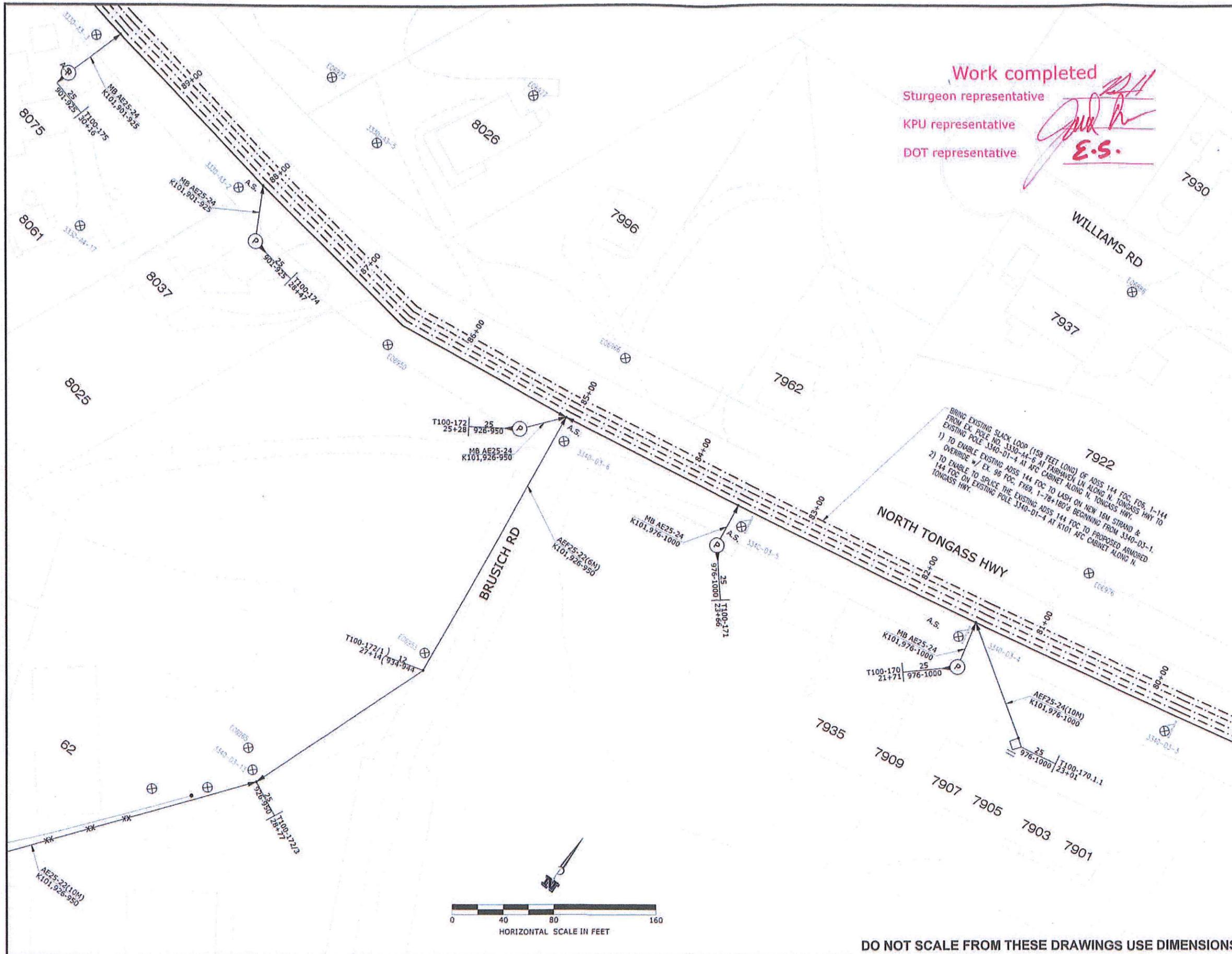
KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

TELEPHONE CABLE LAYOUT

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
V3	100



Work completed
 Surgeon representative
 KPU representative
 DOT representative

[Handwritten signatures and initials]
 E.S.

PATH C:\DOCUMENTS\KEITH\KNEE\2013\KPU
 WARD COVE\KPU RAUL DWG\JO #717-10
 FOR DOT PROJECT
 68973_130201XREF50V2.DWG

TAB V4

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PLAN LEGEND

	PROP. AERIAL FOC
	PROP. FOC LONG TAIL TERM.
	PROP. AERIAL COPPER CABLE
	EXISTING AERIAL FOC
	EX. FOC LONG TAIL TERM.
	EX. AERIAL COPPER CABLE
	EX. AER. FOC TO BE REMOVED
	EX. FOC LONG TAIL TO BE REMOVED
	EX. COPPER CABLE TO BE REMOVED
	PROPOSED POLE
	EXISTING POLE
	PROP. DOUBLE X-ARM ON PROP. POLE
	EX. POLE & EX. DOUBLE X-ARM TO BE REMOVED
	EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
	EX. DOUBLE X-ARM ON EX. POLE
	EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
	EX. GUY & ANCHOR TO BE REMOVED
	PROP. GUY & ANCHOR WITH PROP. LEAD
	EXISTING FIBER SLACK LOOP
	PROP. FIBER SLACK LOOP
	EX. AER. FIBER TERMINAL
	EX. AER. COPPER TERMINAL
	EX. FOC SPLICE POINT
	PROP. SPLICE ON EX. FIBER SPLICE POINT

CHECKED BY: KCM

DESIGNED BY: R. MOJE
 DRAWN BY: R. MOJE

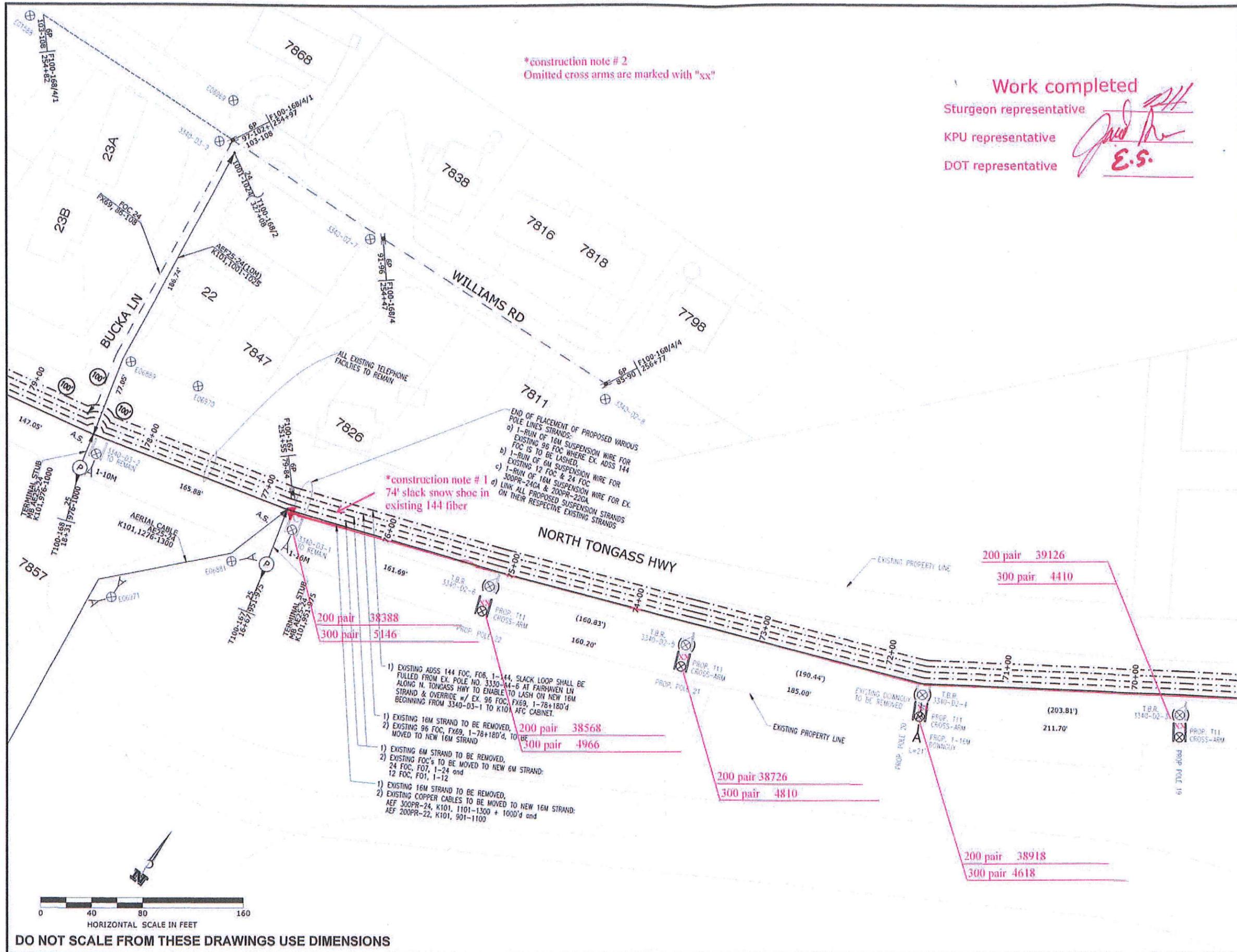
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

**TELEPHONE
 CABLE LAYOUT**

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
V4	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



*construction note # 2
Omitted cross arms are marked with "xx"

Work completed
 Sturgeon representative *[Signature]*
 KPU representative *[Signature]*
 DOT representative *[Signature]*

*construction note # 1
74' slack snow shoe in existing 144 fiber

200 pair 38388
300 pair 5146

1) EXISTING ADSS 144 FOC, FOR 1-144 SLACK LOOP SHALL BE FULLED FROM EX. POLE NO. 3330-04-B AT FAIRHAVEN LN ALONG N. TONGASS HWY TO ENABLE TO LASH ON NEW 16M STRAND & OVERRIDE w/ EX. 96 FOC, FX69, 1-78+180'd BEGINNING FROM 3340-03-1 TO K101 AFC CABINET.

1) EXISTING 16M STRAND TO BE REMOVED,
2) EXISTING 96 FOC, FX69, 1-78+180'd, TO BE MOVED TO NEW 16M STRAND

1) EXISTING 6M STRAND TO BE REMOVED,
2) EXISTING FOC's TO BE MOVED TO NEW 6M STRAND:
24 FOC, F07, 1-24 and
12 FOC, F01, 1-12

1) EXISTING 16M STRAND TO BE REMOVED,
2) EXISTING COPPER CABLES TO BE MOVED TO NEW 16M STRAND:
AEF 300PR-24, K101, 1101-1300 + 1000'd and
AEF 200PR-22, K101, 901-1100

200 pair 39126
300 pair 4410

200 pair 38726
300 pair 4810

200 pair 38918
300 pair 4618

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TAB V5

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PLAN LEGEND

---	PROP. AERIAL FOC
---	PROP. FOC LONG TAIL TERM.
---	PROP. AERIAL COPPER CABLE
---	EXISTING AERIAL FOC
---	EX. FOC LONG TAIL TERM.
---	EX. AERIAL COPPER CABLE
---	EX. AER. FOC TO BE REMOVED
---	EX. FOC LONG TAIL TO BE REMOVED
---	EX. COPPER CABLE TO BE REMOVED
⊗	PROPOSED POLE
⊗	EXISTING POLE
⊗	PROP. DOUBLE X-ARM ON PROP. POLE
⊗	EX. POLE & EX. DOUBLE X-ARM TO BE REMOVED
⊗	EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
⊗	EX. DOUBLE X-ARM ON EX. POLE
⊗	EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
⊗	EX. GUY & ANCHOR TO BE REMOVED
⊗	PROP. GUY & ANCHOR with PROP. LEAD
⊗	EXISTING FIBER SLACK LOOP
⊗	PROP. FIBER SLACK LOOP
⊗	EX. AER. FIBER TERMINAL
⊗	EX. AER. COPPER TERMINAL
⊗	EX. FOC SPLICE POINT
⊗	PROP. SPLICE ON EX. FIBER SPLICE POINT

CHECKED BY: KCN

DESIGNED BY: R. MOJE
DRAWN BY: R. MOJE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

TELEPHONE CABLE LAYOUT

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
V5	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

---	PROP. AERIAL FOC
---	PROP. FOC LONG TAIL TERM.
---	PROP. AERIAL COPPER CABLE
---	EXISTING AERIAL FOC
---	EX. FOC LONG TAIL TERM.
---	EX. AERIAL COPPER CABLE
---	EX. AER. FOC TO BE REMOVED
---	EX. FOC LONG TAIL TO BE REMOVED
---	EX. COPPER CABLE TO BE REMOVED
⊗	PROPOSED POLE
⊗	EXISTING POLE
⊗	PROP. DOUBLE X-ARM ON PROP. POLE
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⊗	EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
⊗	EX. DOUBLE X-ARM ON EX. POLE
⊗	EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
⊗	EX. GUY & ANCHOR TO BE REMOVED
⊗	PROP. GUY & ANCHOR WITH PROP. LEAD
⊗	EXISTING FIBER SLACK LOOP
⊗	PROP. FIBER SLACK LOOP
⊗	EX. AER. FIBER TERMINAL
⊗	EX. AER. COPPER TERMINAL
⊗	EX. FOC SPICE POINT
⊗	PROP. SPICE ON EX. FIBER SPICE POINT

CHECKED BY: KCN

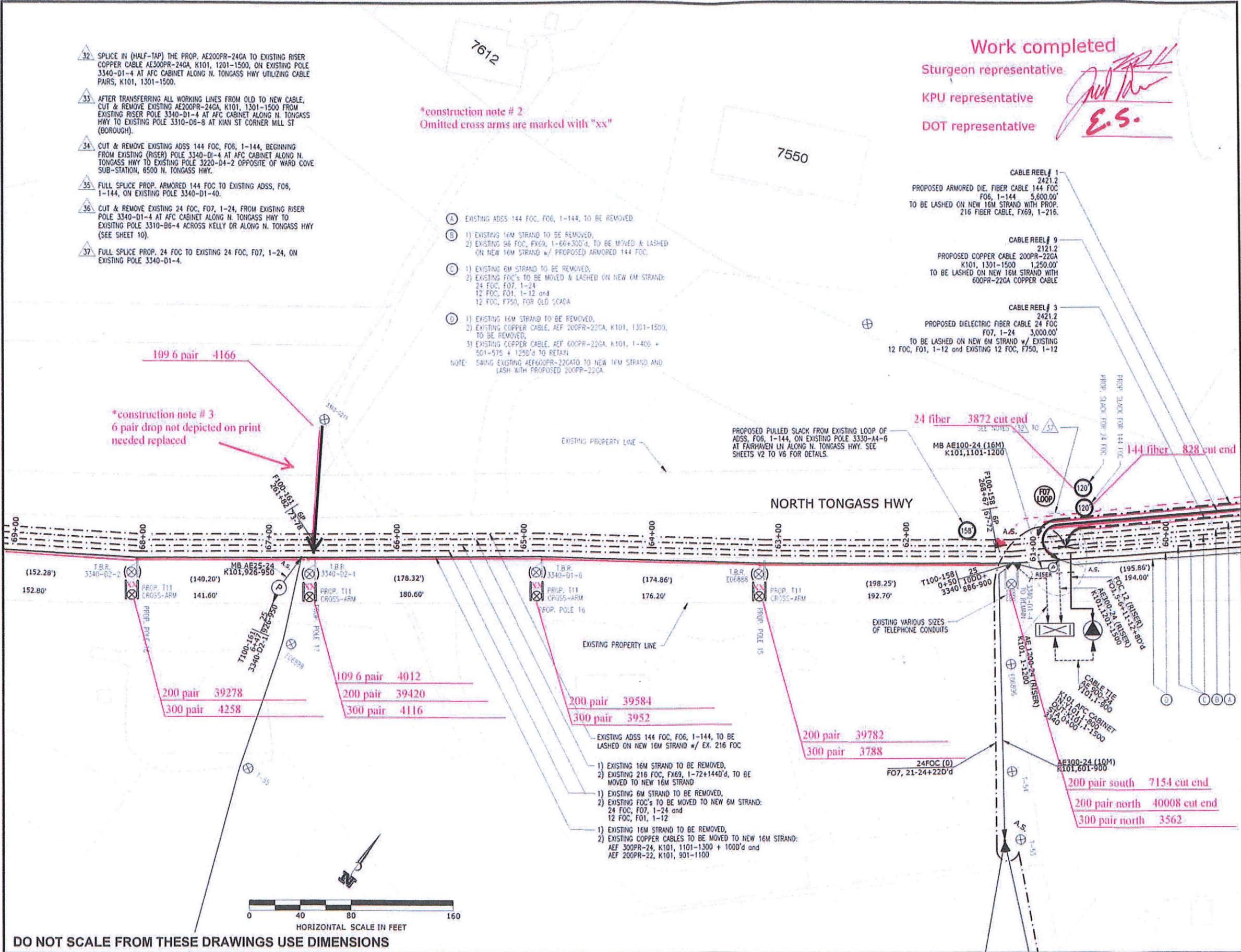


DESIGNED BY: R. MOJE
 DRAWN BY: R. MOJE

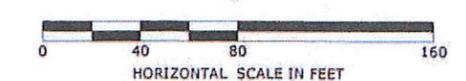
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION
 KTN - NORTH TONGASS HWY.
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

TELEPHONE CABLE LAYOUT

PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
V6	100



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

---	PROP. AERIAL FOC
---	PROP. FOC LONG TAIL TERM.
---	PROP. AERIAL COPPER CABLE
---	EXISTING AERIAL FOC
---	EX. FOC LONG TAIL TERM.
---	EX. AERIAL COPPER CABLE
---	EX. AER. FOC TO BE REMOVED
---	EX. FOC LONG TAIL TO BE REMOVED
---	EX. COPPER CABLE TO BE REMOVED
⊗	PROPOSED POLE
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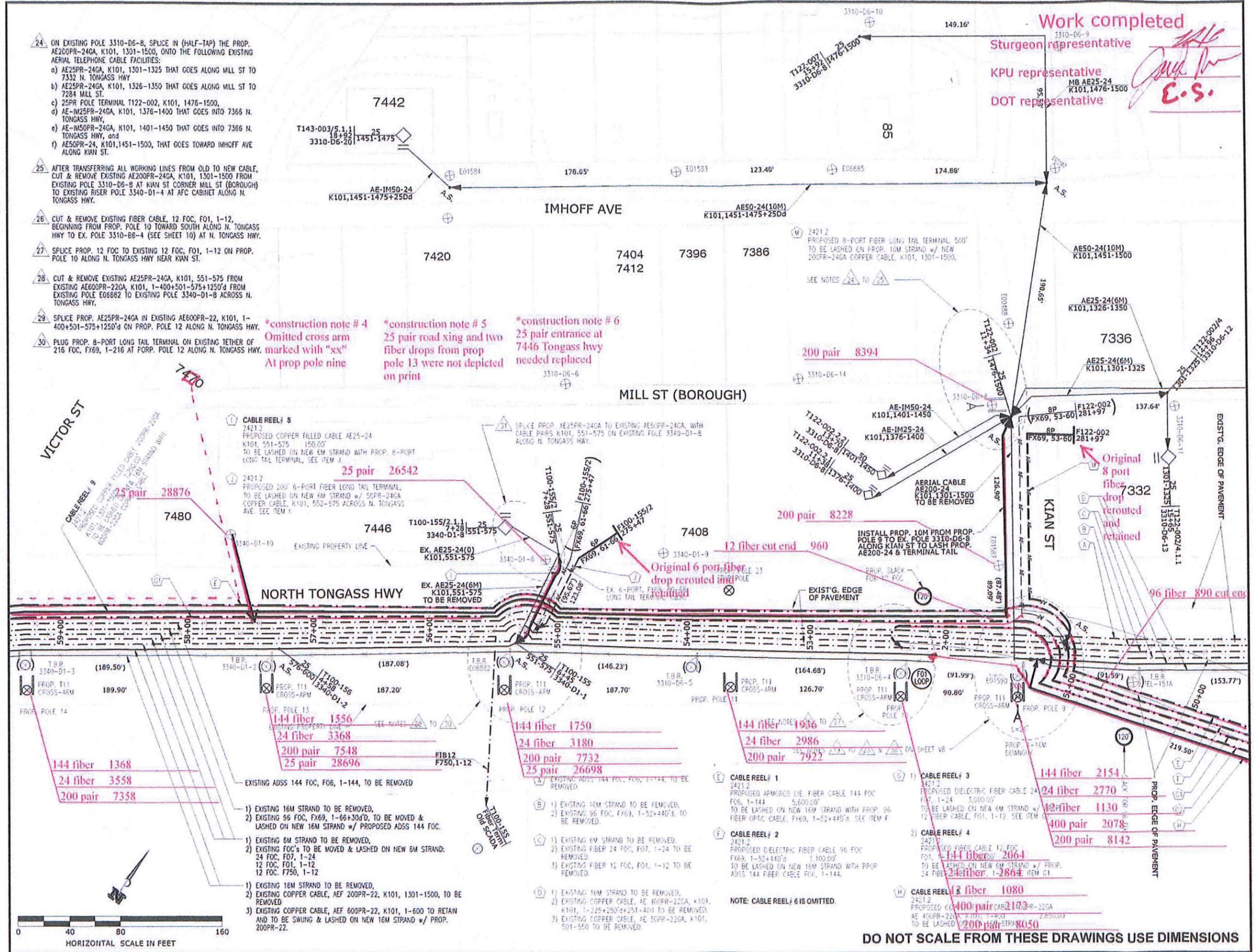
CHECKED BY: KCN

DESIGNED BY: R. MOJE
 DRAWN BY: R. MOJE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY:
 WARD TO REFUGUE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

TELEPHONE CABLE LAYOUT	
PROJECT DESIGNATION	
68973	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
V7	100



TAB: V8

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

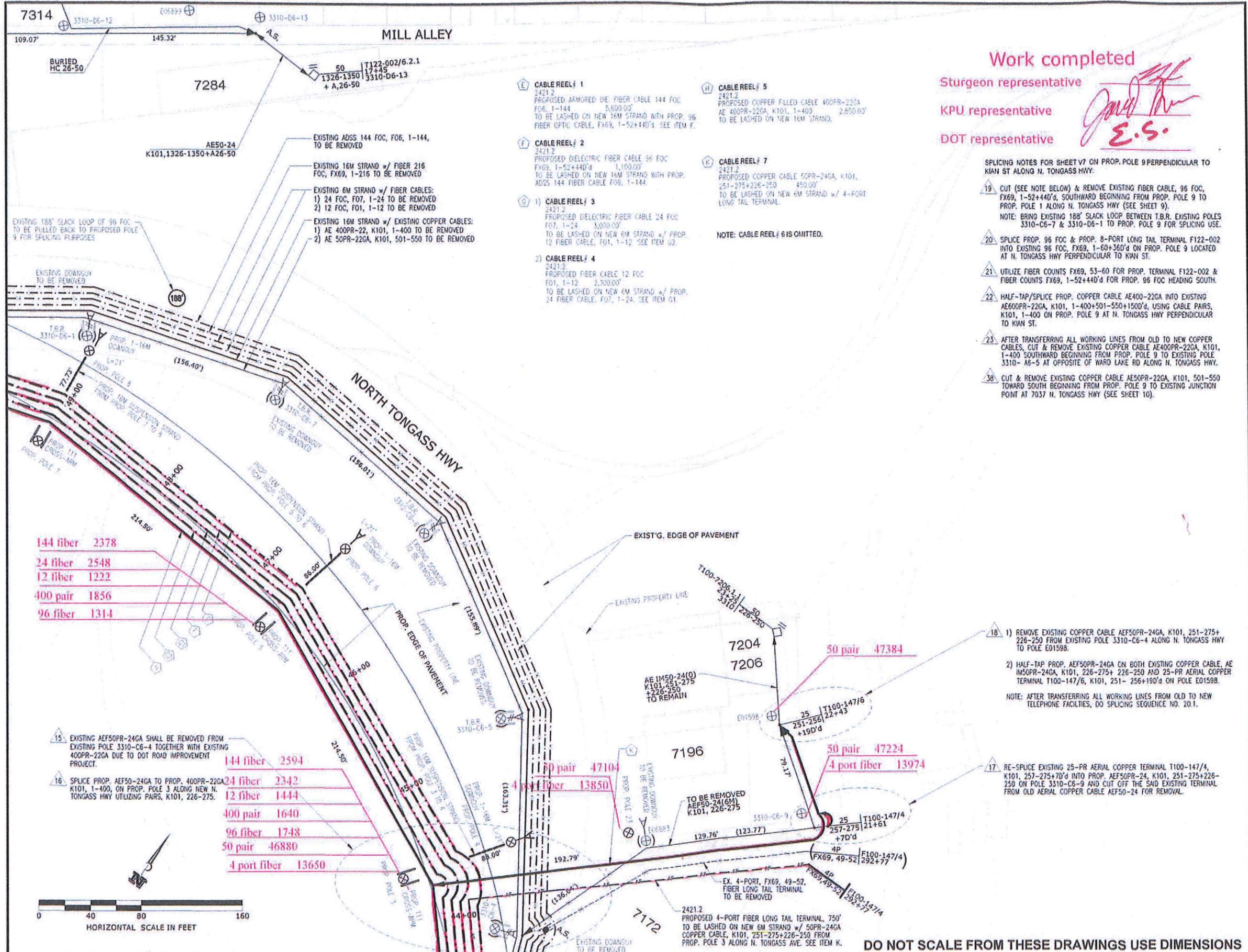
Work completed
Surgeon representative
KPU representative
DOT representative

[Signature]
E.S.

- SPlicing NOTES FOR SHEET V7 ON PROP. POLE 9 PERPENDICULAR TO KIAN ST ALONG N. TONGASS HWY:
- 19. CUT (SEE NOTE BELOW) & REMOVE EXISTING FIBER CABLE, 96 FOC, FX69, 1-52+440'D, SOUTHWARD BEGINNING FROM PROP. POLE 9 TO PROP. POLE 1 ALONG N. TONGASS HWY (SEE SHEET 9).
NOTE: BRING EXISTING 188' SLACK LOOP BETWEEN T.B.R. EXISTING POLES 3310-C6-7 & 3310-D6-1 TO PROP. POLE 9 FOR SPlicing USE.
 - 20. SPlice PROP. 96 FOC & PROP. 8-PORT LONG TAIL TERMINAL F122-002 INTO EXISTING 96 FOC, FX69, 1-60+360'D ON PROP. POLE 9 LOCATED AT N. TONGASS HWY PERPENDICULAR TO KIAN ST.
 - 21. UTILIZE FIBER COUNTS FX69, 53-60 FOR PROP. TERMINAL F122-002 & FIBER COUNTS FX69, 1-52+440'D FOR PROP. 96 FOC HEADING SOUTH.
 - 22. HALF-TAP/SPlice PROP. COPPER CABLE AE400-22GA INTO EXISTING AE600PR-22GA, K101, 1-400+501-550+1500'D, USING CABLE PAIRS, K101, 1-400 ON PROP. POLE 9 AT N. TONGASS HWY PERPENDICULAR TO KIAN ST.
 - 23. AFTER TRANSFERRING ALL WORKING LINES FROM OLD TO NEW COPPER CABLES, CUT & REMOVE EXISTING COPPER CABLE AE400PR-22GA, K101, 1-400 SOUTHWARD BEGINNING FROM PROP. POLE 9 TO EXISTING POLE 3310-A6-5 AT OPPOSITE OF WARD LAKE RD ALONG N. TONGASS HWY.
 - 28. CUT & REMOVE EXISTING COPPER CABLE AE50PR-22GA, K101, 501-550 TOWARD SOUTH BEGINNING FROM PROP. POLE 9 TO EXISTING JUNCTION POINT AT 7037 N. TONGASS HWY (SEE SHEET 10).

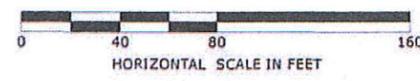
PLAN LEGEND

--- A ---	PROP. AERIAL FOC
--- AS ---	PROP. FOC LONG TAIL TERM.
--- P ---	PROP. AERIAL COPPER CABLE
--- E ---	EXISTING AERIAL FOC
--- AF ---	EX. FOC LONG TAIL TERM.
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⊗	PROP. FIBER SLACK LOOP
⊗	EX. AER. FIBER TERMINAL
⊗	EX. AER. COPPER TERMINAL
⊗	EX. FOC SPlice POINT
⊗	PROP. SPlice ON EX. FIBER SPlice POINT



- 144 fiber 2378
- 24 fiber 2548
- 12 fiber 1222
- 400 pair 1856
- 96 fiber 1314

- 144 fiber 2594
- 24 fiber 2342
- 12 fiber 1444
- 400 pair 1640
- 96 fiber 1748
- 50 pair 46880
- 4 port fiber 13650



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: KCN

DESIGNED BY: R. MOJE

DRAWN BY: R. MOJE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KEITH NELSON
REGISTERED PROFESSIONAL ENGINEER
EE-7655
2-1-13

KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

TELEPHONE
CABLE LAYOUT

PROJECT DESIGNATION
68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
V8	100

TAB V9

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

---	PROP. AERIAL FOC
---	PROP. FOC LONG TAIL TERM.
---	PROP. AERIAL COPPER CABLE
---	EXISTING AERIAL FOC
---	EX. FOC LONG TAIL TERM.
---	EX. AERIAL COPPER CABLE
---	EX. AER. FOC TO BE REMOVED
---	EX. FOC LONG TAIL TO BE REMOVED
---	EX. COPPER CABLE TO BE REMOVED
⊗	PROPOSED POLE
⊗	EXISTING POLE
⊗	PROP. DOUBLE X-ARM ON PROP. POLE
⊗	EX. POLE & EX. DOUBLE X-ARM TO BE REMOVED
⊗	EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
⊗	EX. DOUBLE X-ARM ON EX. POLE
⊗	EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
⊗	EX. GUY & ANCHOR TO BE REMOVED
⊗	PROP. GUY & ANCHOR WITH PROP. LEAD
⊗	EXISTING FIBER SLACK LOOP
⊗	PROP. FIBER SLACK LOOP
⊗	EX. AER. FIBER TERMINAL
⊗	EX. AER. COPPER TERMINAL
⊗	EX. FOC SPLICE POINT
⊗	PROP. SPLICE ON EX. FIBER SPLICE POINT

CHECKED BY: KCN

DESIGNED BY: R. MOJE
DRAWN BY: R. MOJE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

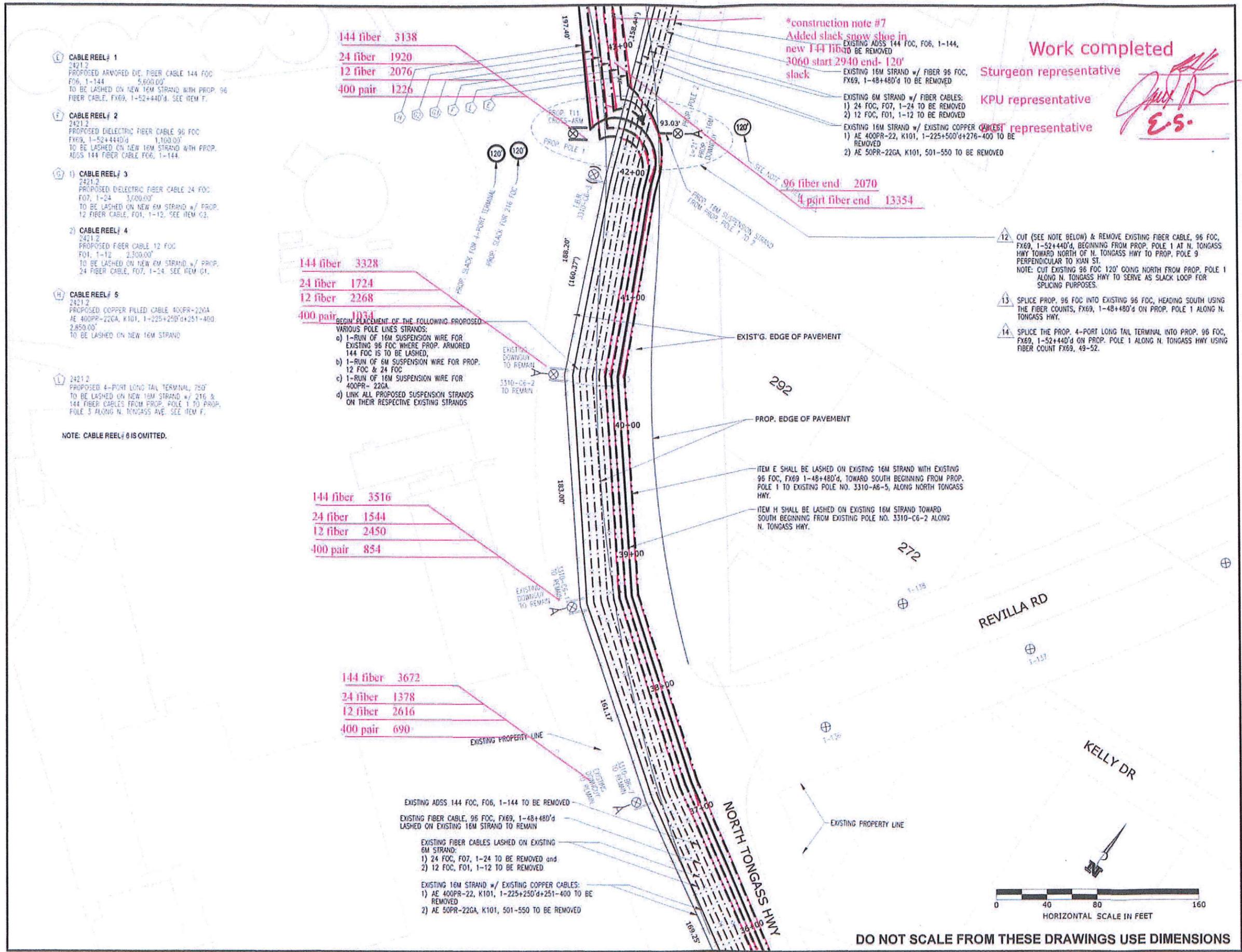
KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973

TELEPHONE CABLE LAYOUT

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
V9	100



TAB: V10

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

---+---+---	PROP. AERIAL FOC
---+---+---	PROP. FOC LONG TAIL TERM.
---	PROP. AERIAL COPPER CABLE
---	EXISTING AERIAL FOC
---	EX. FOC LONG TAIL TERM.
---	EX. AERIAL COPPER CABLE
---	EX. AER. FOC TO BE REMOVED
---	EX. FOC LONG TAIL TO BE REMOVED
---	EX. COPPER CABLE TO BE REMOVED
⊗	PROPOSED POLE
⊗	EXISTING POLE
⊗	PROP. DOUBLE X-ARM ON PROP. POLE
⊗	EX. POLE & EX. DOUBLE X-ARM TO BE REMOVED
⊗	EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
⊗	EX. DOUBLE X-ARM ON EX. POLE
⊗	EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
⊗	EX. GUY & ANCHOR TO BE REMOVED
⊗	PROP. GUY & ANCHOR WITH PROP. LEAD
⊗	EXISTING FIBER SLACK LOOP
⊗	PROP. FIBER SLACK LOOP
⊗	EX. AER. FIBER TERMINAL
⊗	EX. AER. COPPER TERMINAL
⊗	EX. FOC SPlice POINT
⊗	PROP. SPlice ON EX. FIBER SPlice POINT

PLAN LEGEND

CHECKED BY: KCN



DESIGNED BY: R. MOJE
DRAWN BY: R. MOJE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

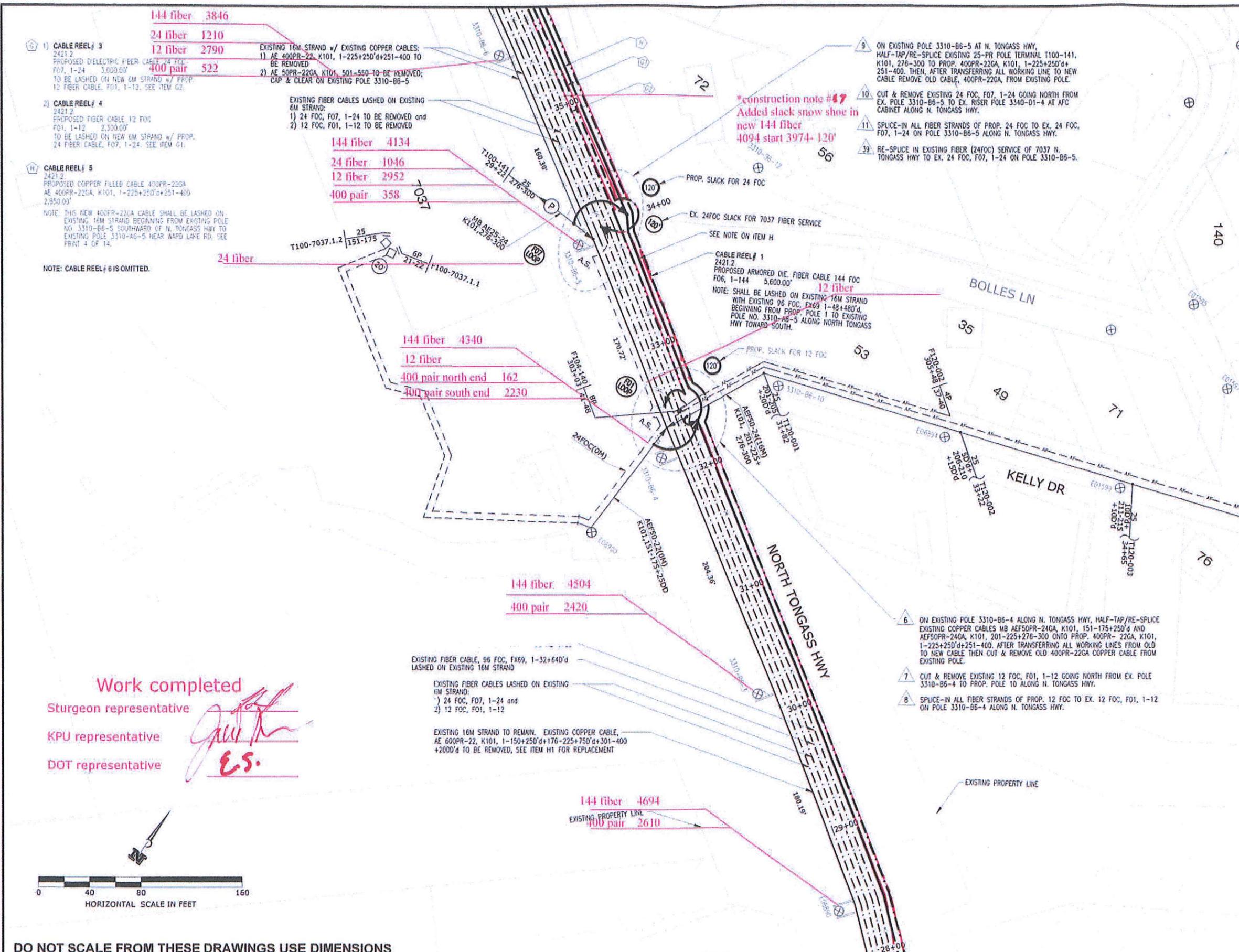
**KTN - NORTH TONGASS HWY.
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #68973**

**TELEPHONE
CABLE LAYOUT**

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
V10	100

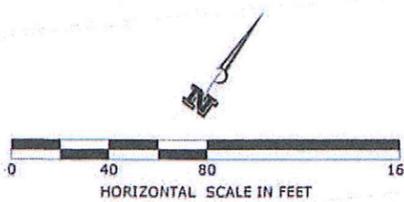


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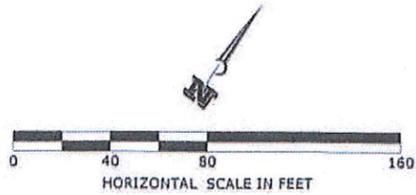
Sturgeon representative *[Signature]*

KPU representative *[Signature]*

DOT representative *[Signature]*



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Work completed
 Surgeon representative
 KPU representative
 DOT representative

144 fiber 5634

144 fiber 5400

144 fiber 5196
 400 pair cut end 3126

144 fiber 5050
 400 pair 2976

144 fiber 4930
 400 pair 2858

144 fiber 4810
 400 pair 2734

- 3 ON EXISTING POLE 3310-A6-5, HALF-TAP/RE-SPLICE PROP. COPPER CABLE 400PR-22GA (MC#04-081-27), K101, 1-400, TO EXISTING COPPER CABLE 600PR-22GA, K101, 1-600 THAT RUNS SOUTHWARD OF N. TONGASS HWY.
- 4 AFTER TRANSFERRING ALL EXISTING WORKING LINES FROM OLD TO NEW CABLE, CUT & REMOVE OLD COPPER CABLE, 600PR-22GA FROM EXISTING POLE 3310-A6-5 AT N. TONGASS HWY ALL THE WAY TO PROP. POLE 9 LOCATED AT N. TONGASS HWY PERPENDICULAR TO KIAN ST.

EXISTING ADSS 144 FOC, F06, 1-144 TO BE REMOVED
 EXISTING FIBER CABLES ON EX. 6M STRAND:
 1) 24 FOC, F07, 1-24 and
 2) 12 FOC, F01, 1-12
 EXISTING COPPER CABLE, AEF 600PR-22, K101, 1-225+250'd+251-400+200'd ON EXISTING 16M STRAND TO REMAIN.

EXISTING ADSS 144 FOC, F06, 1-144 TO BE REMOVED
 EXISTING FIBER CABLE, 96 FOC, FX69, 1-28+680'd ON EXISTING 16M STRAND
 EXISTING FIBER CABLES LASHED ON 6M STRAND:
 1) 24 FOC, F07, 1-24 and
 2) 12 FOC, F01, 1-12
 EXISTING 16M STRAND TO REMAIN. EXISTING COPPER CABLE, AE 400PR-22GA, K101, 1-200+500'd+251-275+250'd+301-365+100'd+376-400 TO BE REMOVED, SEE ITEM H FOR REPLACEMENT

CABLE REEL # 1
 2421.2
 PROPOSED ARMORED DIE. FIBER CABLE 144 FOC F06, 1-144 5,600.00'
 NOTE: SHALL BE LASHED ON EXISTING 16M STRAND WITH EXISTING 12 FOC, F01 1-12, AND 24 FOC, F07, 1-24 FROM EX. POLE 3310-A6-5 OPPOSITE OF WARD LAKE RD. TO EX. POLE 3220-D4-2 (SEE SHEET 13 OF 14) OPPOSITE SIDE OF WARD COVE SUB-STATION ALONG NORTH TONGASS HWY.

CABLE REEL # 1
 2421.2
 PROPOSED ARMORED DIE. FIBER CABLE 144 FOC F06, 1-144 5,600.00'
 NOTE: SHALL BE LASHED ON EXISTING 16M STRAND WITH EXISTING 96 FOC, FX69 1-48+480'd, BEGINNING FROM PROP. POLE 1 TOWARD SOUTH TO EXISTING POLE NO. 3310-A6-5 ALONG NORTH TONGASS HWY.

5 ON EXISTING POLE 3310-A6-6 AT N. TONGASS HWY, HALF-TAP/RE-SPLICE EXISTING AE25PR-24GA COPPER CABLE & TERMINAL T100-135 TO PROPOSED 400PR-22GA, K101, 1-225+250'd+251-400 USING THE PAIR COUNTS, K101, 150'd+366-375. AFTER RE-SPLICING, CABLE K101 WILL HAVE A COUNT OF 1-150+250'd+176-225+750'd+301-365+100'd+376-400. AFTER TRANSFERRING ALL EXISTING LINES, CUT OFF EXISTING AE25PR-24GA CABLE & TERMINAL T100-135 FROM OLD 400PR-22GA COPPER CABLE, WHICH IS DUE FOR REMOVAL.

CABLE REEL # 5
 2421.2
 PROPOSED COPPER FILLED CABLE 400PR-22GA AE 400PR-22GA, K101, K101, 1-225+250'd+251-400 2,850.00'
 NOTE: THIS NEW 400PR-22GA SHALL BE LASHED ON EXISTING 16M STRAND BEGINNING FROM EXISTING POLE NO. 3310-B6-5 SOUTHWARD OF N. TONGASS AVE TO EXISTG. POLE NO. 3310-A6-5 NEAR WARD LAKE RD.

PATH: C:\DOCUMENTS\KEITH0-KNER\2013\KPU WARD COVE\KPU RAUL DWG\JO # 717-10 FOR DOT PROJECT 68973_130201XREF50V2.DWG
 KCN
 TAB V11 Thursday, February 07, 2013 2:47:53 PM

ADDENDUM NUMBER
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

- PROP. AERIAL FOC
- AF--- PROP. FOC LONG TAIL TERM.
- PROP. AERIAL COPPER CABLE
- EXISTING AERIAL FOC
- AF--- EX. FOC LONG TAIL TERM.
- EX. AERIAL COPPER CABLE
- EX. AER. FOC TO BE REMOVED
- AF--- EX. FOC LONG TAIL TO BE REMOVED
- EX. COPPER CABLE TO BE REMOVED
- ⊗ PROPOSED POLE
- ⊗ EXISTING POLE
- ⊗ PROP. DOUBLE X-ARM ON PROP. POLE
- ⊗ EX. POLE & EX. DOUBLE X-ARM TO BE REMOVED
- ⊗ EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
- ⊗ EX. DOUBLE X-ARM ON EX. POLE
- ⊗ EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
- ⊗ EX. GUY & ANCHOR TO BE REMOVED
- Y L=21' PROP. GUY & ANCHOR WITH PROP. LEAD
- ⊗ EXISTING FIBER SLACK LOOP
- ⊗ PROP. FIBER SLACK LOOP
- ⊗ EX. AER. FIBER TERMINAL
- ⊗ EX. AER. COPPER TERMINAL
- EX. FOC SPLICE POINT
- PROP. SPLICE ON EX. FIBER SPLICE POINT

PLAN LEGEND

CHECKED BY: KCN



DESIGNED BY: R. MOJE
 DRAWN BY: R. MOJE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
 WARD TO REFUGE COVE
 PAVEMENT REHABILITATION
 PROJECT #68973

TELEPHONE CABLE LAYOUT

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
V11	100

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

TAB V13

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

No.	DATE	DESCRIPTION

- PROP. AERIAL FOC
- AF--- PROP. FOC LONG TAIL TERM.
- PROP. AERIAL COPPER CABLE
- EXISTING AERIAL FOC
- AF--- EX. FOC LONG TAIL TERM.
- EX. AERIAL COPPER CABLE
- EX. AER. FOC TO BE REMOVED
- AF--- EX. FOC LONG TAIL TO BE REMOVED
- EX. COPPER CABLE TO BE REMOVED
- ⊗ PROPOSED POLE
- ⊗ EXISTING POLE
- ⊗ PROP. DOUBLE X-ARM ON PROP. POLE
- ⊗ EX. POLE & EX. DOUBLE X-ARM TO BE REMOVED
- ⊗ EX. POLE & EX. SINGLE X-ARM OR ALLEY-ARM TO BE REMOVED
- ⊗ EX. DOUBLE X-ARM ON EX. POLE
- ⊗ EX. SINGLE X-ARM OR ALLEY-ARM ON EX. POLE
- ⊗ EX. GUY & ANCHOR TO BE REMOVED
- ⊗ PROP. GUY & ANCHOR WITH PROP. LEAD
- ⊗ EXISTING FIBER SLACK LOOP
- ⊗ PROP. FIBER SLACK LOOP
- ⊗ EX. AER. FIBER TERMINAL
- ⊗ EX. AER. COPPER TERMINAL
- ⊗ EX. FOC SPLICE POINT
- ⊗ PROP. SPLICE ON EX. FIBER SPLICE POINT

PLAN LEGEND

CHECKED BY: KCN



DESIGNED BY: R. MOJE

DRAWN BY: R. MOJE

STATE OF ALASKA
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KTN - NORTH TONGASS HWY:
WARD TO REFUGE COVE
PAVEMENT REHABILITATION
PROJECT #88973

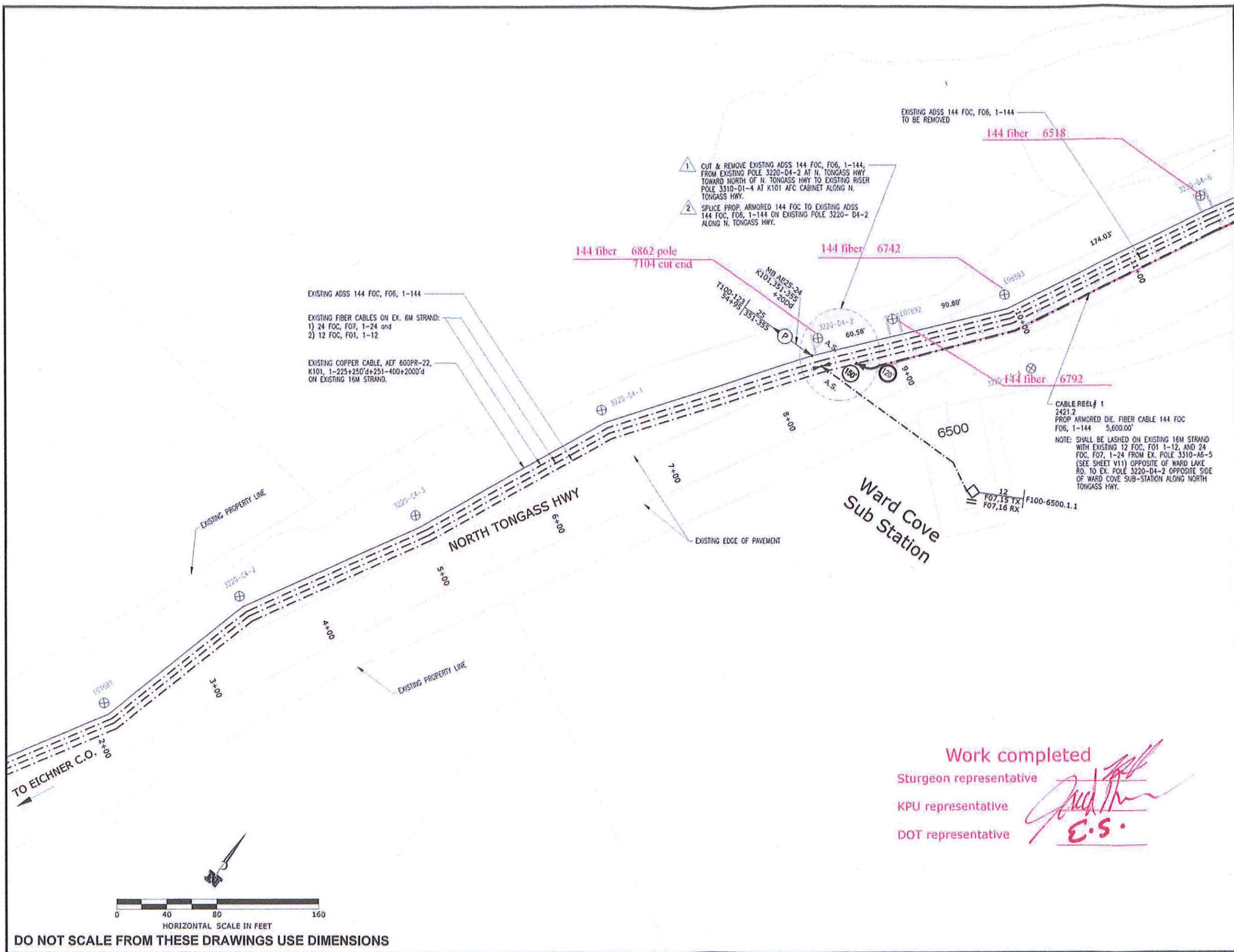
**TELEPHONE
CABLE LAYOUT**

PROJECT DESIGNATION

68973

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
V13	100



Work completed

Sturgeon representative

KPU representative

DOT representative

[Signature]

E.S.

