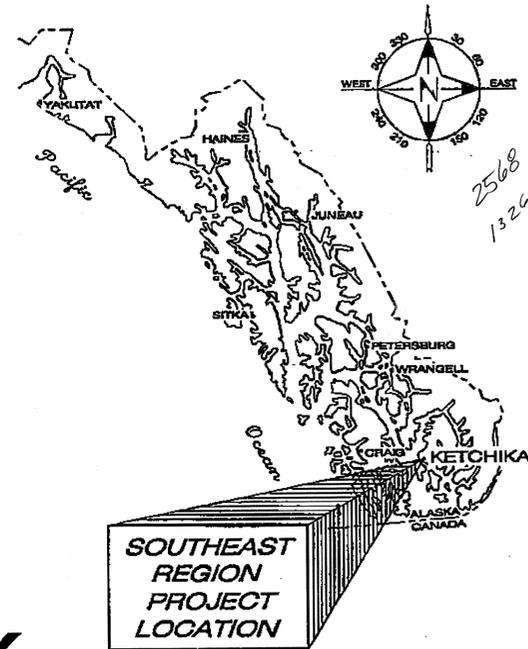


# State of Alaska

Department of Transportation  
and Public Facilities

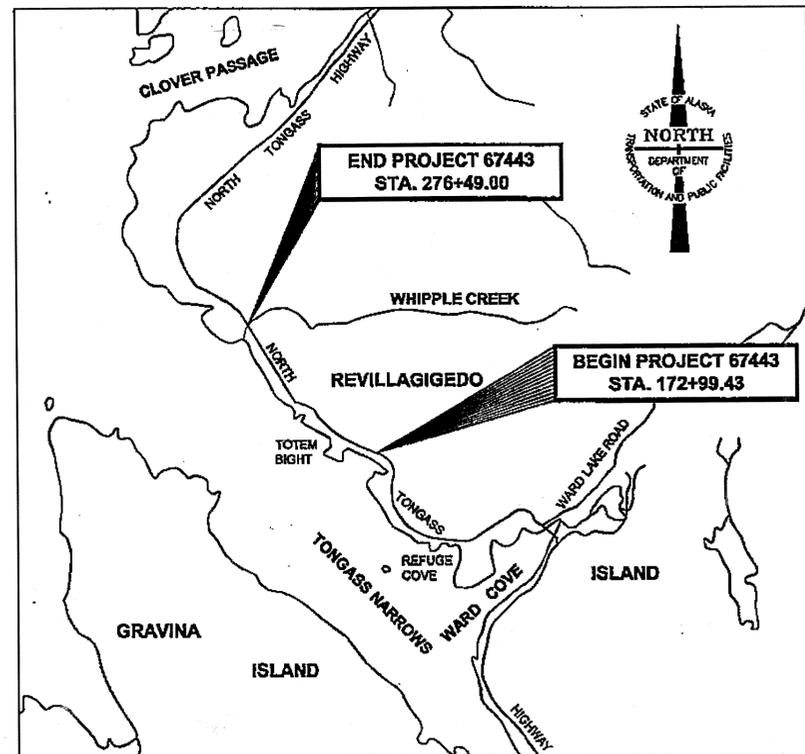
Southeast Region



## KETCHIKAN, ALASKA NORTH TONGASS HIGHWAY

### WARD COVE TO WHIPPLE CREEK STAGE 2 ~ TOTEM BIGHT TO WHIPPLE CREEK GRADING, DRAINAGE, AND PAVING PROJECT NO. NH-ARA-0920(25) - 67443

INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE AND INDEX
A2	LEGEND
A3-A4	SURVEY CONTROL PLAN
B1-B3	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D3	SUMMARY TABLES
E1-E4	MISCELLANEOUS DETAILS
E5-E7	MSE WALL DETAILS
F1-F19	PLAN & PROFILE
F20	8.5 MILE DISPOSAL SITE
G1-G21	APPROACH PLAN & PROFILE
H1-H6	SIGNING, STRIPING & LIGHTING
J1-J3	TRAFFIC CONTROL PLAN
P1-P5	EROSION & SEDIMENT CONTROL PLANS
R1-R13	RIGHT-OF-WAY PLANS
U1-U10	UTILITY PLAN
U11-U13	ELECTRICAL LINE PROFILE
U14-U16	STAKING SHEETS
As-Built	
Contractor: Secon Inc	
Start Date: 4/12/10	
End Date: 9/14/12	
Project Engineer: Jack Lee	



VICINITY MAP

#### DESIGN DESIGNATION

A.D.T. 2008	=	4300
A.D.T. 2030	=	4800
D.H.V. 2030	=	520
% T	=	5.5%
V	=	55 mph
E.A.L.	=	450,000

#### PROJECT SUMMARY

LENGTH OF MAINLINE PAVING	=	8,859 ft. (1.68 miles)
WIDTH OF MAINLINE PAVING	=	36 ft.
LENGTH OF PATH PAVING	=	9,685 ft. (1.83 miles)
WIDTH OF PATH PAVING	=	8 ft.
LENGTH OF PROJECT	=	10,353 ft. (1.96 miles)

#### THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	D-04.21	G-00.01	G-27.11	M-13.01	S-20.10
C-03.10	D-06.10	G-04.07W	G-31.00	M-16.01	S-30.03
C-04.12	D-07.00	G-10.01	I-20.13	M-20.12	T-06.00
C-05.10	D-30.01	G-13.00	I-81.00	M-23.12	T-21.02
D-01.02	E-13.00	G-20.10	L-03.10	S-00.10	T-22.03
		G-25.20W	L-23.01	S-05.01	

#### THE FOLLOWING KETCHIKAN PUBLIC UTILITIES DRAWINGS APPLY TO THIS PROJECT:

A5-1	C8-2	E1-2 A,B,C	G39	M5-1 TO 5-8	VC-1
A6	C8-11	E2-2	J5-J16	M5-9,M5-16	VC1-R
C2-2	C9-N	E3-2,E3-3,E3-10	K5-K16	T-1	VC1-2
C7	C11	F2	M2-2,M2-12	T-11	VC8
C7-1			M2-11	UM5	VC8-R

#### UTILITY CONTACTS

KETCHIKAN PUBLIC UTILITIES ELECTRICAL DEPARTMENT	JEFF HARRISON	(907) 288-5442
KETCHIKAN PUBLIC UTILITIES TELECOMMUNICATIONS DIVISION	LON RAKE	(907) 288-5483
GCI COMMUNICATIONS	BUZZ HASSON	(907) 220-7111

ROUTE:	29L500	MILEPOINT:	7,360-9,350
PATH:	Q:\Ktn\67443\Planset\67443_A1_Ttl.dwg Fri, 29/Jan/10 08:45AM rlganham2		
PLOT:	PSPACE OR MSPACE: 1000mm=1m(F)	TAB:	TSHT

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

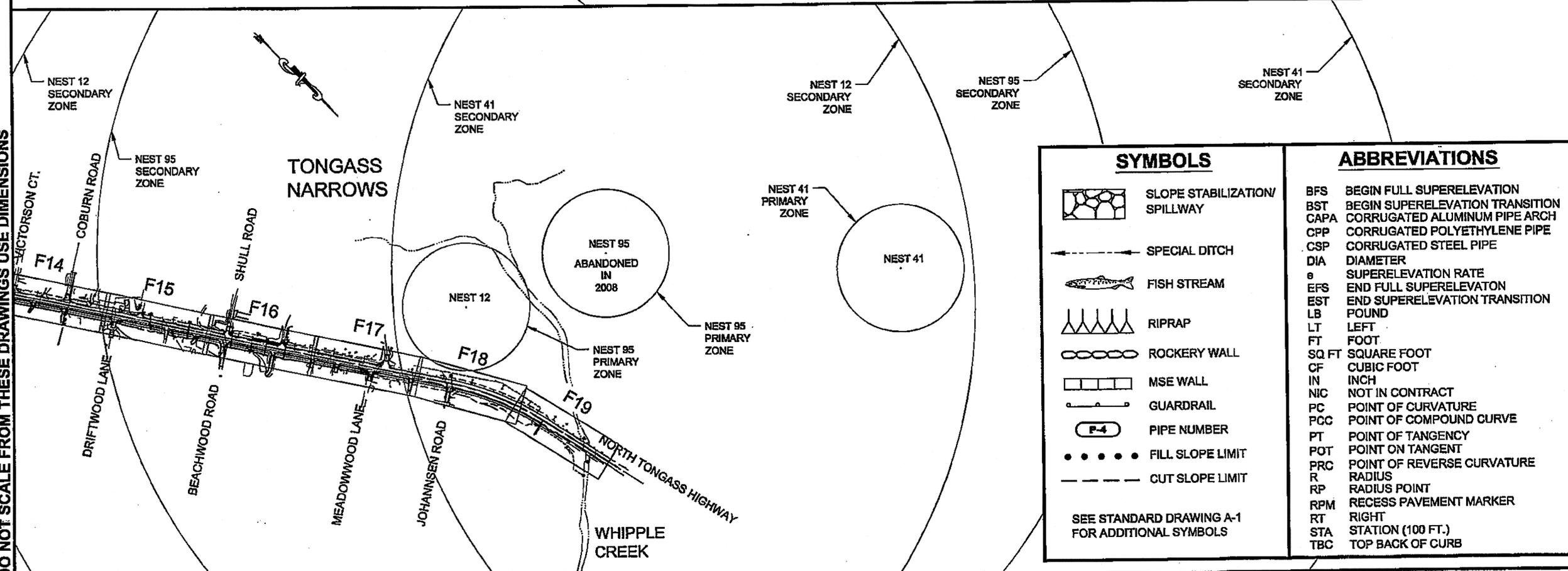
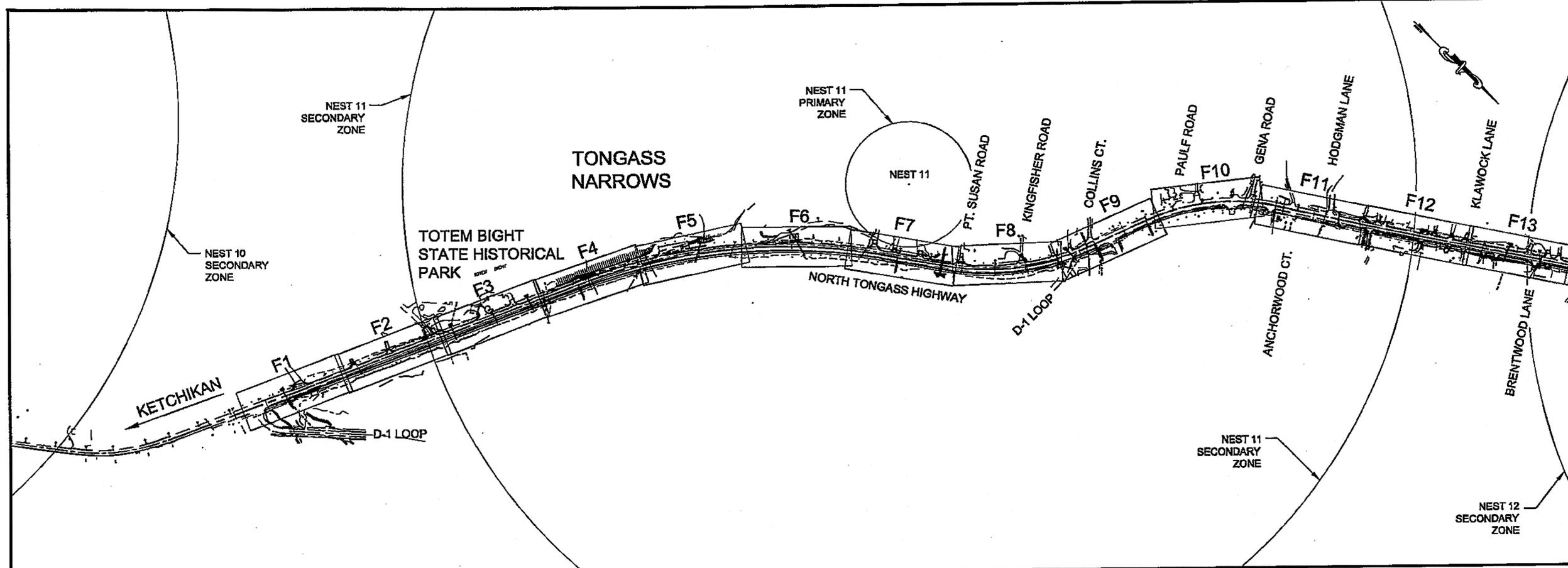


RECOMMENDED FOR APPROVAL:  
*Victor M. Winters* 2/4/10  
DATE  
VICTOR M. WINTERS, P.E.  
REGIONAL PRE-CONSTRUCTION ENGINEER  
APPROVED:  
*Gary L. Davis* 2-4-10  
DATE  
GARY L. DAVIS  
REGIONAL DIRECTOR  
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:  
*Manson A. Hansen* 10-28-13  
DATE  
CONSTRUCTION PROJECT MANAGER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-ARA-0920(25) - 67443	2010	A1	102

PATH: Q:\KTN\67443\PLANSET\67443\_A2\_PROJ-LEG.DWG  
 TAB: A2 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

SYMBOLS		ABBREVIATIONS	
	SLOPE STABILIZATION/ SPILLWAY	BFS	BEGIN FULL SUPERELEVATION
	SPECIAL DITCH	BST	BEGIN SUPERELEVATION TRANSITION
	FISH STREAM	CAPA	CORRUGATED ALUMINUM PIPE ARCH
	RIPRAP	CPP	CORRUGATED POLYETHYLENE PIPE
	ROCKERY WALL	CSP	CORRUGATED STEEL PIPE
	MSE WALL	DIA	DIAMETER
	GUARDRAIL	e	SUPERELEVATION RATE
	PIPE NUMBER	EFS	END FULL SUPERELEVATION
	FILL SLOPE LIMIT	EST	END SUPERELEVATION TRANSITION
	CUT SLOPE LIMIT	LB	POUND
SEE STANDARD DRAWING A-1 FOR ADDITIONAL SYMBOLS		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

**PLAN LEGEND**

CHECKED BY: C. HOWARD



DESIGNED BY: D. LESTER, J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**LEGEND**

PROJECT DESIGNATION

NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
A2	102

**BOP**  
**STA. 172+99.43**  
**N=1315552.8093**  
**E=3080743.9400**

**STA. 173+21.00**  
**BEGIN FULL**  
**WIDTH**  
**CONSTRUCTION**

**STA. 172+99.43**  
**OFF: 31.00' RT**  
**BEGIN PATH**  
**CONSTRUCTION**

**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 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: 3,079,528.5740'  
 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.

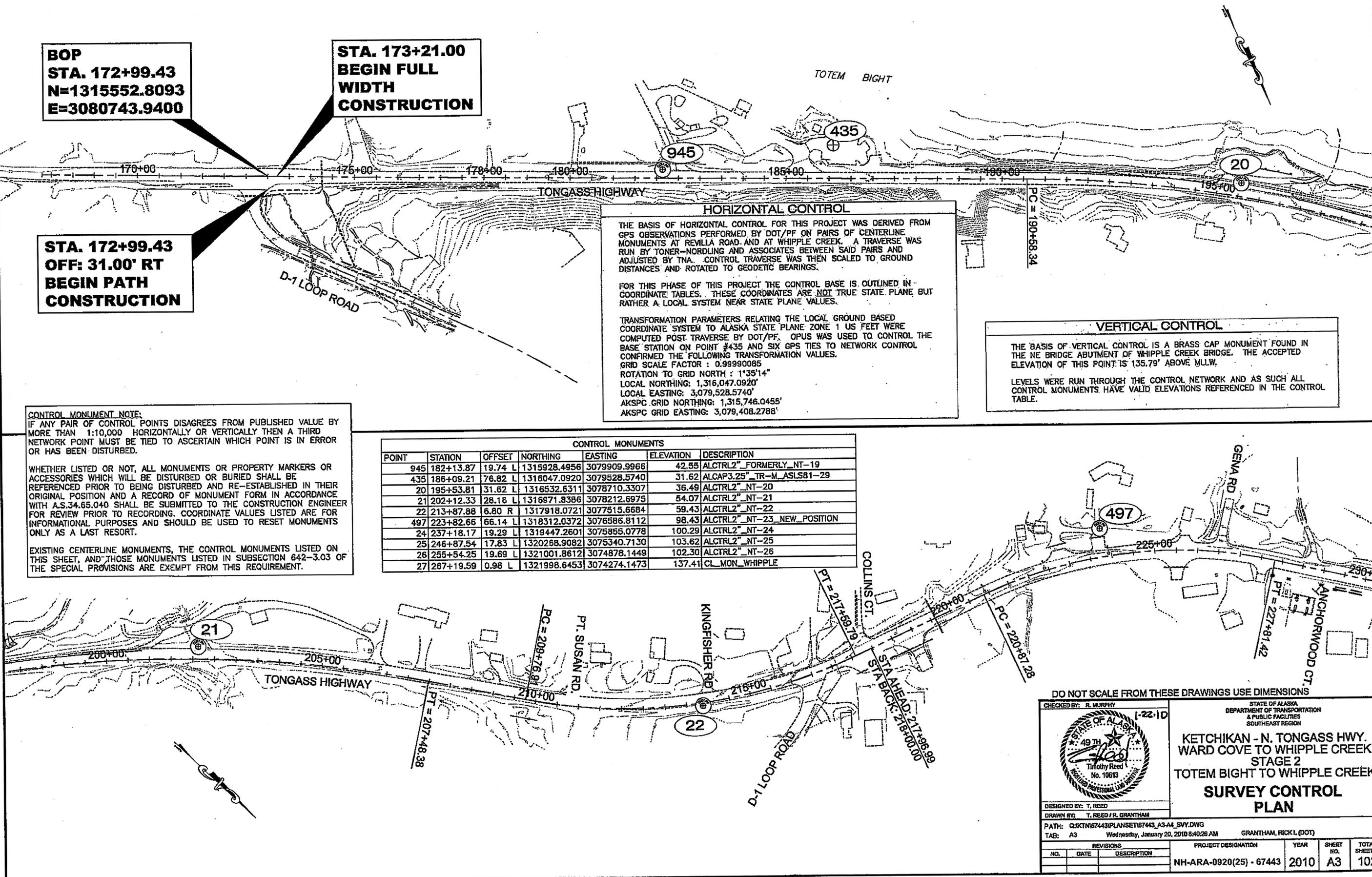
LEVELS WERE RUN THROUGH THE CONTROL NETWORK AND AS SUCH ALL CONTROL MONUMENTS HAVE VALID ELEVATIONS REFERENCED IN THE CONTROL TABLE.

**CONTROL MONUMENT NOTE:**  
 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.

WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS OR ACCESSORIES WHICH 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.

EXISTING CENTERLINE MONUMENTS, THE CONTROL MONUMENTS LISTED ON THIS SHEET, AND THOSE MONUMENTS LISTED IN SUBSECTION 642-3.03 OF THE SPECIAL PROVISIONS ARE EXEMPT FROM THIS REQUIREMENT.

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
945	182+13.87	19.74 L	1315928.4956	3079909.9966	42.55	ALCTRL2" FORMERLY_NT-19
435	186+09.21	76.82 L	1316047.0920	3079528.5740	31.62	ALCAP3.25" TR-M_ASLS81-29
20	195+53.81	31.62 L	1316532.6311	3078710.3307	36.49	ALCTRL2" NT-20
21	202+12.33	28.16 L	1316871.8386	3078212.6975	54.07	ALCTRL2" NT-21
22	213+87.88	6.80 R	1317918.0721	3077515.6684	59.43	ALCTRL2" NT-22
497	223+82.66	66.14 L	1318312.0372	3076586.8112	98.43	ALCTRL2" NT-23 NEW POSITION
24	237+18.17	19.29 L	1319447.2601	3075855.0778	100.29	ALCTRL2" NT-24
25	246+87.54	17.83 L	1320268.9082	3075340.7130	103.62	ALCTRL2" NT-25
26	255+54.25	19.69 L	1321001.8612	3074878.1449	102.30	ALCTRL2" NT-26
27	267+19.59	0.98 L	1321998.6453	3074274.1473	137.41	CL_MON_WHIPPLE



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: R. MURPHY

DESIGNED BY: T. REED

DRAWN BY: T. REED / R. GRANTHAM

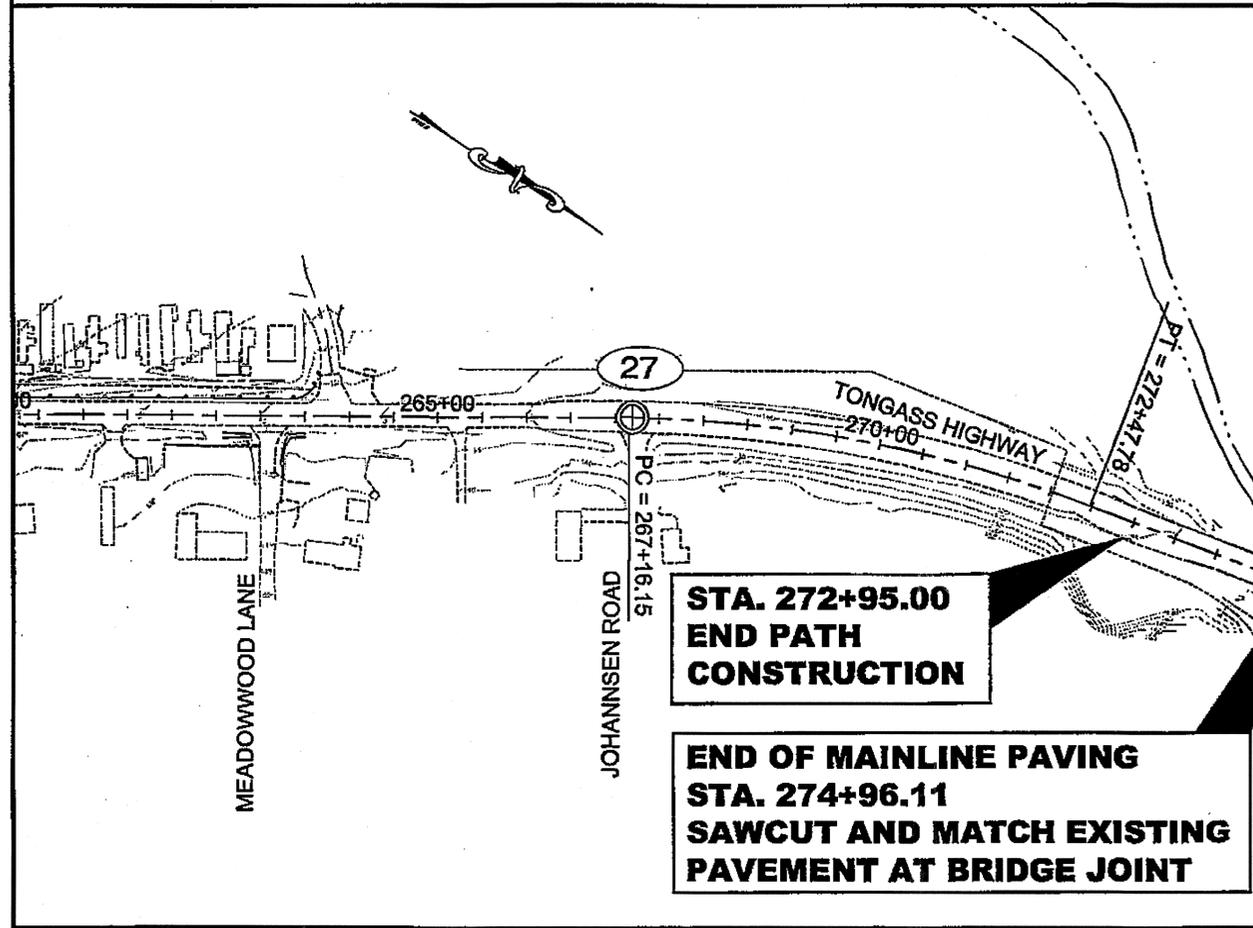
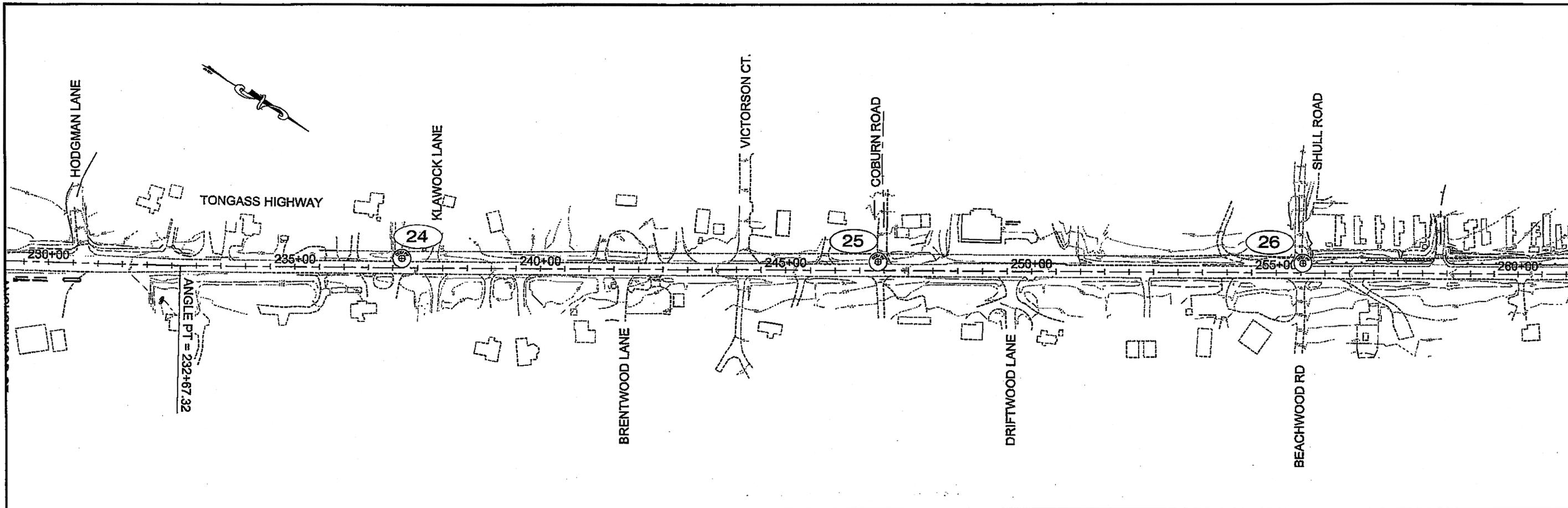
PATH: Q:\KTM67443\PLANSET\67443\_A3-A4\_SVY.DWG

TAB: A3 Wednesday, January 20, 2010 8:40:26 AM GRANTHAM, RICK L (DOT)

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD COVE TO WHIPPLE CREEK  
 STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK  
**SURVEY CONTROL  
 PLAN**

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-ARA-0920(25) - 67443	2010	A3	102



**NORTH TONGASS STAGE II CENTERLINE CONTROL TABLE**

DESC.	STATION	CURVE DATA			TANGENT		NORTHING	EASTING
		DELTA	RADIUS	LENGTH	TANGENT	BEARING		
BOP	172+99.43					N 64° 30' 44" W	1758.92	3080743.940
PC	190+58.34	32° 03' 49"	3020.00	1690.04	867.79			1316309.706
PT	207+48.38					N 32° 26' 55" W	228.53	1317415.434
PC	209+76.91	36° 01' 44"	1245.00	782.88	404.87			1317608.282
PT	217+59.79					N 68° 28' 39" W	330.50	1318098.477
STATION EQUATION: STA BK 218+00.00		STA AHD 217+96.99						
PC	220+87.28	37° 20' 38"	1085.00	694.14	359.90			1318219.725
PT	227+81.42					N 31° 08' 01" W	485.90	1318659.823
ANGLE PT	232+67.32					N 32° 08' 01" W	3448.83	1319075.738
PC	267+16.15	20° 51' 47"	1480.00	531.63	268.79			1321996.243
PT	272+47.78					N 11° 16' 14" W	401.22	1322487.466
EOP	276+49.00							1322880.949

**STA. 272+95.00  
END PATH  
CONSTRUCTION**

**END OF MAINLINE PAVING  
STA. 274+96.11  
SAWCUT AND MATCH EXISTING  
PAVEMENT AT BRIDGE JOINT**

**END OF PROJECT  
STA. 276+49.00  
N=1322880.9491  
E=3074002.8861**

BASIS OF VERTICAL  
BC MON IN NE ABUTMENT  
WHIPPLE CREEK BRIDGE  
135.79' ABOVE M.L.W.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: R. MURPHY

DESIGNED BY: T. REED  
DRAWN BY: T. REED / R. GRANTHAM

PATH: CHAKTIN674431PLANSET67443\_A3-A4\_SVY.DWG  
TAG: A4 Wednesday, January 20, 2010 8:48:52 AM GRANTHAM, RICK L (DOT)

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

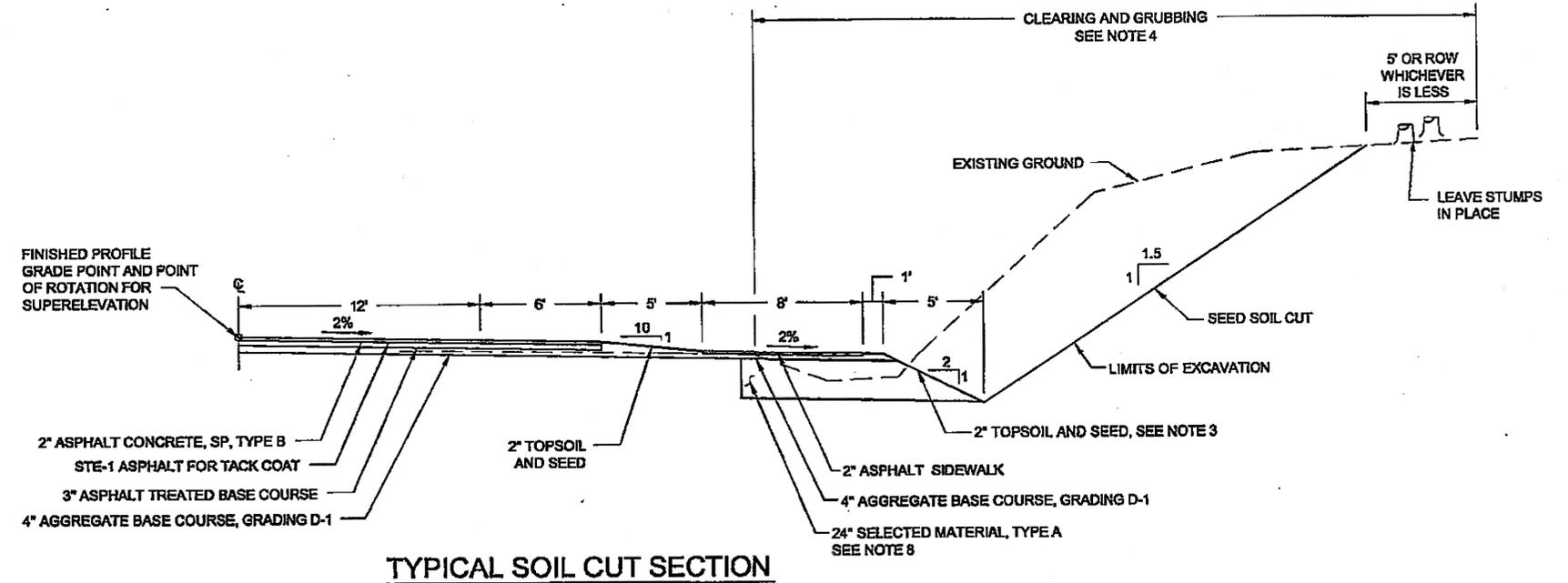
**KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK  
SURVEY CONTROL  
PLAN**

1-22-10

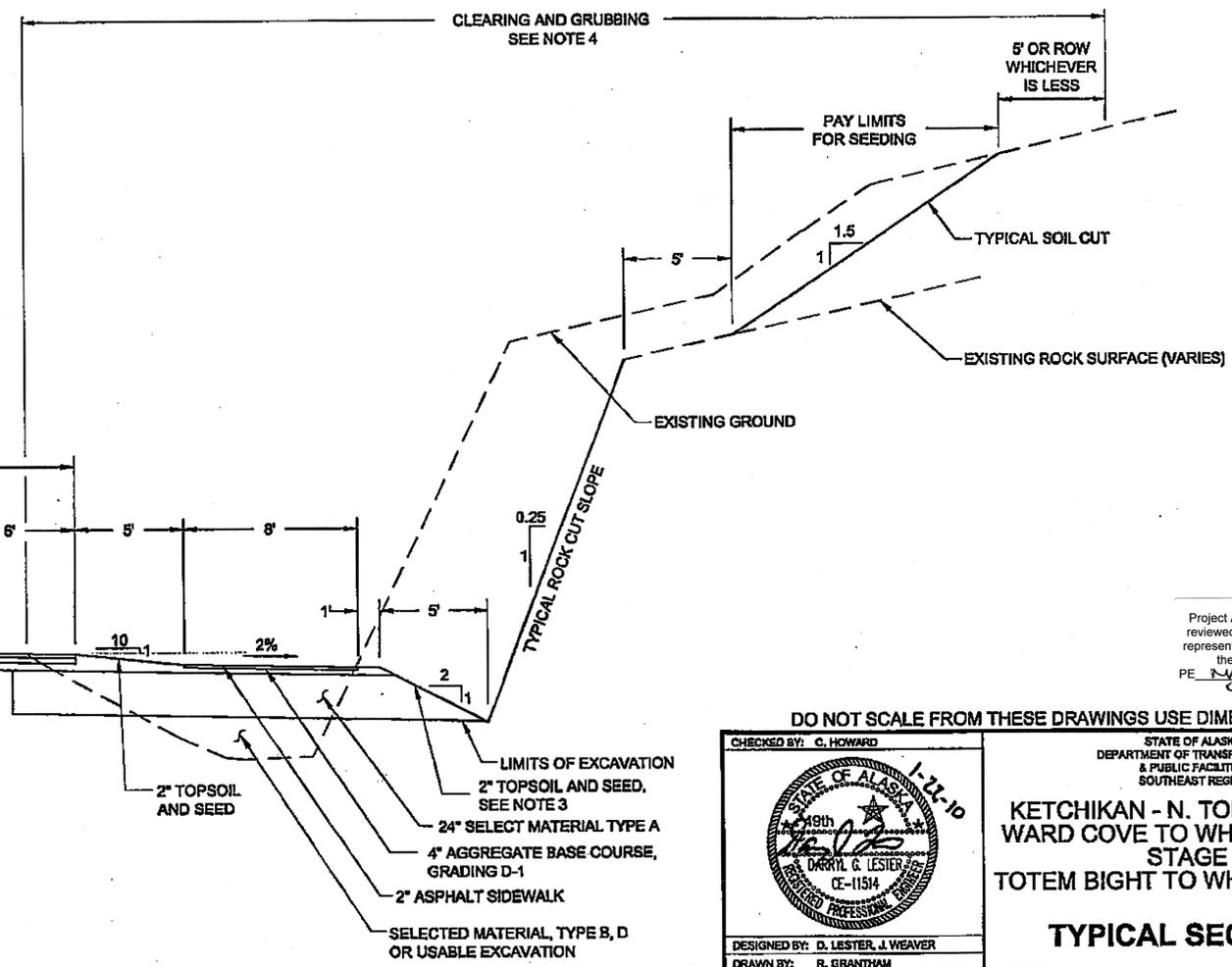
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-ARA-0920(25) - 67443	2010	A4	102

**TYPICAL SECTION NOTES:**

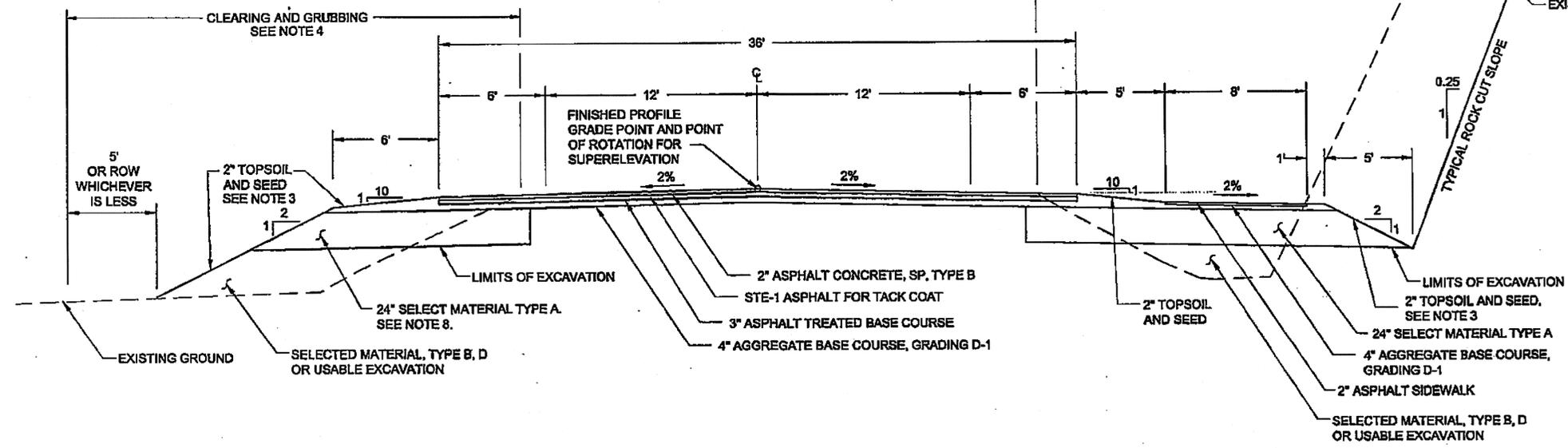
- NO EXISTING ROADWAY PAVEMENT SHALL BE REMOVED WITHOUT WRITTEN APPROVAL.
- ORGANIC MATERIAL FROM THE PROJECT EXCAVATION THAT IS SUITABLE FOR TOPSOIL PER SECTION 726 SHALL BE STOCKPILED IN APPROVED LOCATIONS AWAITING USE AS TOPSOIL FOR SEEDING. SEE THE ENVIRONMENTAL COMMITMENTS FOR HANDLING REQUIREMENTS OF INVASIVE PLANTS.
- ALL NON-ROCK CONSTRUCTION SLOPES THAT ARE 2:1 (H:V) OR FLATTER SHALL BE COVERED WITH 2" COMPACTED TOPSOIL. ALL NON-ROCK CONSTRUCTION SLOPES THAT ARE 1.5:1 (H:V) OR FLATTER SHALL BE SEEDED AND MULCHED. DISTURBED AREAS SHALL BE SEEDED. ALL NON-ROCK SLOPES 1.5:1 (H:V) OR STEEPER WILL BE EVALUATED FOR SLOPE STABILIZATION MEASURES. ALL TOPSOIL, SEEDING, AND STABILIZATION SHALL BE IN ACCORDANCE WITH SECTIONS 618 AND 619 OF THE SPECIFICATIONS AND SPECIAL PROVISIONS.
- CLEARING AND GRUBBING LIMITS SHALL BE DETERMINED FROM THE EDGE OF MAINTAINED DITCH/FORESLOPE, TO THE LIMITS BELOW OR AS DIRECTED. SEE THE ENVIRONMENTAL COMMITMENTS FOR HANDLING REQUIREMENTS OF INVASIVE PLANTS.  
**CLEARING LIMITS SHALL BE:**  
 CLEARING LIMITS SHALL BE 5' BEYOND THE SLOPE LIMITS OR TO THE RIGHT-OF-WAY LINE, WHICHEVER IS CLOSER TO CENTERLINE.  
**GRUBBING LIMITS SHALL BE:**  
 A. ALL AREAS OF CUT.  
 B. TO THE TOE OF SLOPE IN THE EMBANKMENT AREAS.
- EXTEND DITCH FORESLOPE FOR SPECIAL DITCHES, PROFILE SHALL GOVERN OVER TYPICAL SECTION.
- THE AVERAGE THICKNESS OF EXISTING PAVEMENT IS 5".
- RIPRAP WILL BE PLACED WHEREVER THE EMBANKMENT IS CONSTRUCTED BELOW ELEVATION 22' (EHW DATUM). SEE TYPICAL, SHEET B3.
- BENCH SELECTED MATERIAL TYPE A AS SHOWN WHERE EXISTING ROAD BED IS ENCOUNTERED. IN AREAS OF REALIGNMENT AND WHERE ROADWAY PROFILE GRADE IS LOWERED MORE THAN 1 FOOT, CONSTRUCT 24" OF SELECTED MATERIAL, TYPE A FULL WIDTH. SUBEXCAVATE AS DIRECTED, WHEN ROCK IS ENCOUNTERED, FLUFF BLAST TO A DEPTH MATCHING THE BOTTOM LIMIT OF SELECTED MATERIAL, TYPE A TO FACILITATE DRAINAGE. MINIMUM NEW PAVEMENT SECTION CONSISTS OF 2" ASPHALT CONCRETE, 3" ATB, 4" AGGREGATE BASE COURSE, GRADING D-1. AGGREGATE BASE COURSE, GRADING D-1 MAY BE PLACED DIRECTLY ON EXISTING ROADWAY EMBANKMENT AS GRADE AND ALIGNMENT ALLOW, AND AS DIRECTED.
- THE PATH SEPARATION SHALL BE FLATTENED AT DRIVEWAYS AND WHEN APPROACHING AND RECEDING FROM DRIVEWAYS AND INTERSECTIONS. A SHALLOW SWALE SHALL BE CONSTRUCTED AND GRADED TO CONVEY WATER AWAY FROM THE ROAD SURFACE.
- THE MAXIMUM PROFILE GRADE OF THE ADJACENT PAVED PATHWAY SHALL BE 5%, UNLESS THE ROADWAY CENTERLINE GRADE EXCEEDS 5%, IN WHICH CASE THE PATH SHALL MATCH THE ROADWAY CENTERLINE PROFILE.
- FILL SLOPE RATIOS DEPICTED ON ALL "B" SHEETS ARE THE MINIMUM. SLOPES MAY BE CONSTRUCTED FLATTER IF APPROVED. DITCHES ADJACENT TO ROCK CUTS SHALL BE CONSTRUCTED AS SHOWN ON THE TYPICAL SECTIONS, NO FLATTENING OF FORESLOPES WILL BE ALLOWED.
- SEE SLOPE TABLE SHEET B2 FOR MODIFICATION OF TYPICAL CUT AND FILL SLOPE RATIOS.
- SALVAGE ALL EXISTING ASPHALT CONCRETE MATERIAL NOT USED IN THE PROJECT FOR DEPARTMENT USE.



**TYPICAL SOIL CUT SECTION**



**TYPICAL SECTION OF ALL PAVED IMPROVEMENTS**  
(EXCEPT WHERE MODIFIED BY OTHER TYPICAL SECTIONS)



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 4/15/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

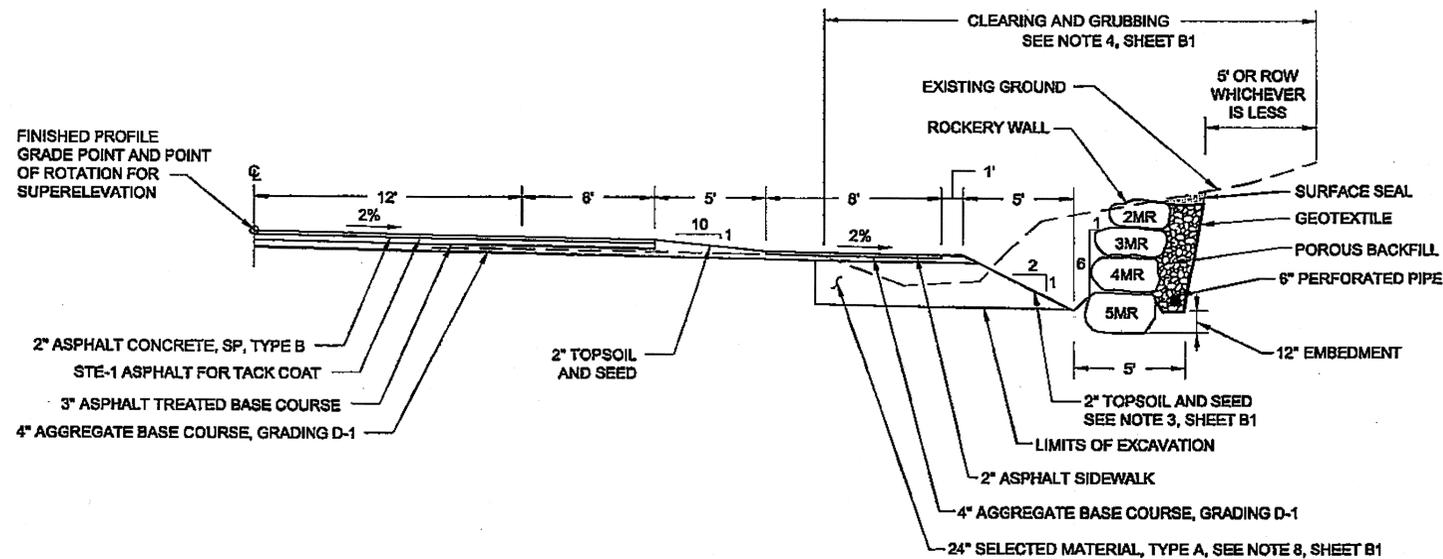
KETCHIKAN - N. TONGASS HWY.  
 WARD COVE TO WHIPPLE CREEK  
 STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**TYPICAL SECTIONS**

DESIGNED BY: D. LESTER, J. WEAVER  
 DRAWN BY: R. GRANTHAM

PATH: Q:\KTN67443\PLANSET\67443\_B1-B3\_TYP.DWG  
 TAB: B1 Thursday, January 28, 2010 9:42:50 AM GRANTHAM, RICK L (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-ARA-0920(25) - 67443	2010	B1	102



**TYPICAL SOIL CUT USING ROCKERY WALL**

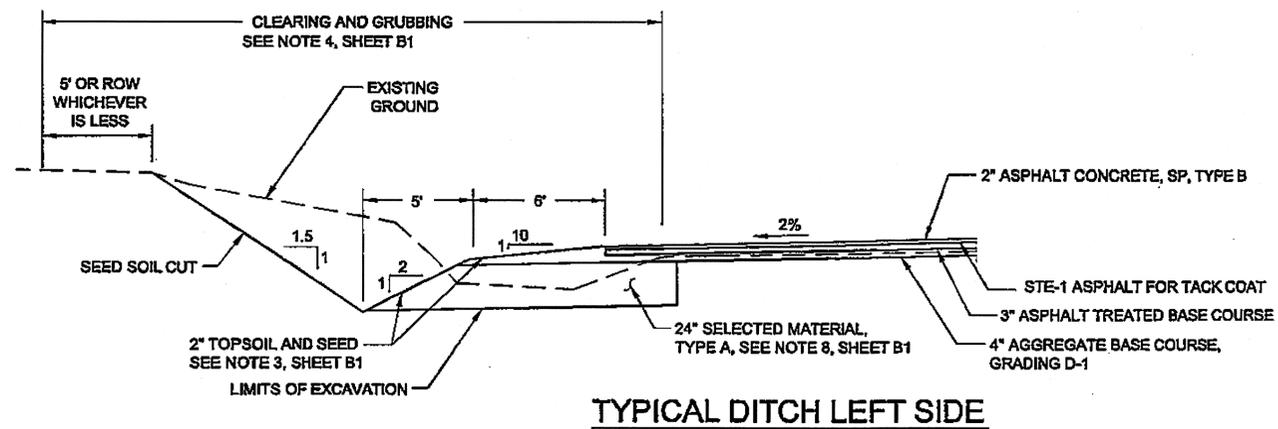
(USE ROCKERY TO PREVENT TYPICAL SOIL CUT EXTENDING BEYOND ROW)

STA. 214+75 TO 215+20 RT  
 STA. 235+70 TO 236+45 RT  
 STA. 243+20 TO 250+80 RT  
 STA. 253+20 TO 263+00 RT

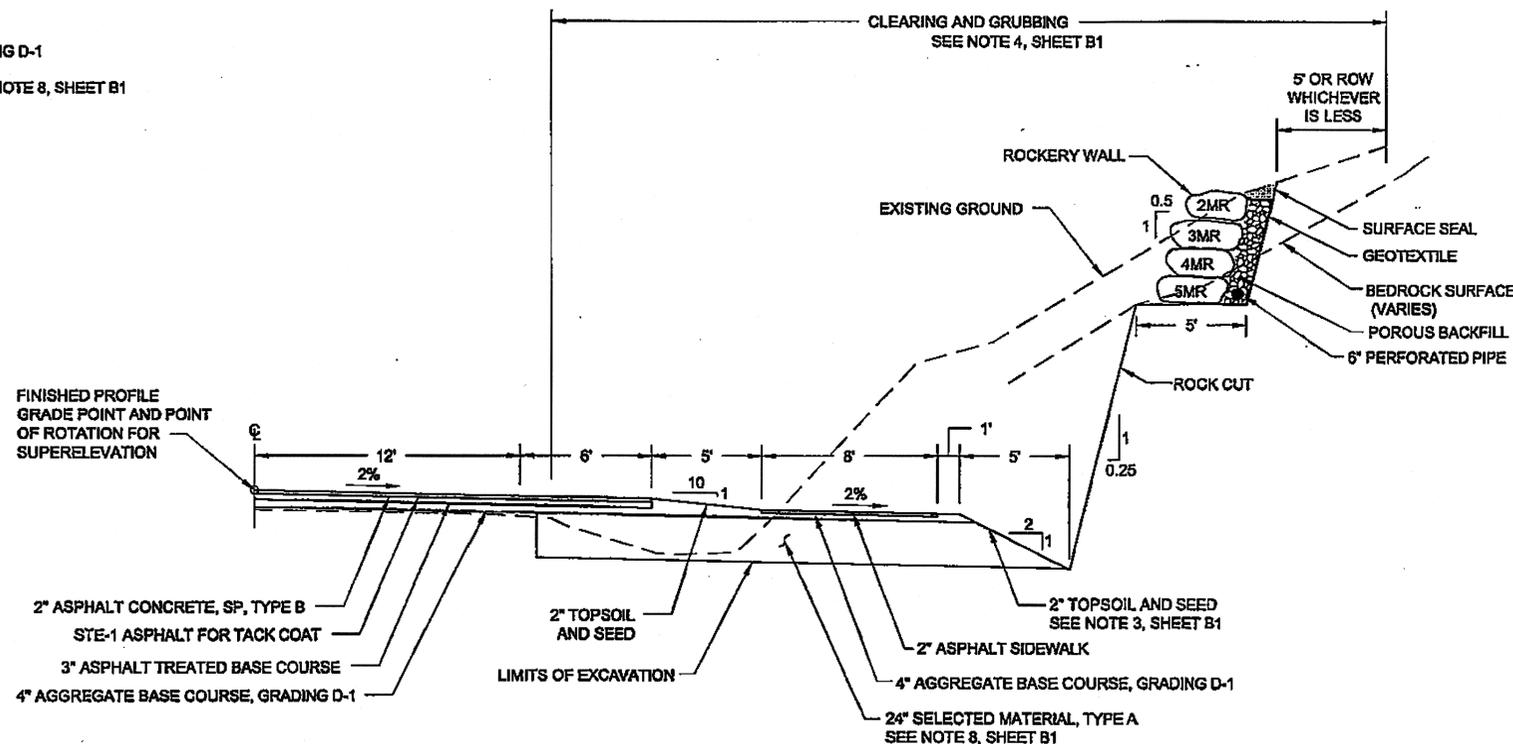
**ROCKERY WALL NOTES:**

1. FOLLOW ROCKERY DESIGN AND CONSTRUCTION GUIDELINES, PUBLICATION NO. FHWA-CFL/DT-06-006, NOVEMBER 2006.
2. CONSTRUCT THE WALL ON A FIRM, LEVEL SURFACE. PROVIDE A 12" LEVELING COURSE AS REQUIRED. LEVELING COURSE SHALL MEET SUBSECTION 703-2.07, SELECTED MATERIAL, TYPE A.
3. USE ROCKS THAT ARE GENERALLY RECTANGULAR. SMOOTH, ROUNDED BOULDERS, EVEN IF BROKEN ON ONE OR MORE FACES, ARE NOT ACCEPTABLE.
4. BASE ROCKS SHALL BE PLACED WITH THE LONG AXIS DIRECTED INTO THE SLOPE TO PROVIDE MAXIMUM STABILITY. THE LONG AXIS SHALL MEASURE 0.3 TO 0.5 X THE WALL HEIGHT. SEE TABLE BELOW. THE SMALLEST ROCK DIMENSION SHALL BE ITS VERTICAL DIMENSION.
5. MATCH ROCKS TO FORM A LEVEL BEARING SURFACE WITH A GRADUAL BACKWARD TILT. USE ANGULAR ROCK SPALLS TO FILL VOIDS TO RETAIN BACKFILL. DO NOT USE ROCK SPALLS TO PROVIDE PRIMARY BEARING SUPPORT FOR OVERLYING ROCKS.
6. SUCCESSIVE LIFTS OF FACING ROCKS SHALL BEAR ON AT LEAST TWO OTHER ROCKS. EACH ROCK SHALL HAVE AT LEAST THREE BEARING POINTS - TWO IN FRONT AND ONE IN BACK. THE FRONT-MOST BEARING POINT FOR EACH ROCK SHALL BE WITHIN 6" OF THE AVERAGE FACE OF THE ROCKERY.
7. THE TOPS OF EACH ROCK SHALL BE SLOPED BACK TOWARDS THE BACKDRAIN.
8. CONSTRUCT THE WALL FACE WITH A BATTER AS SHOWN.
9. PLACE POROUS BACKFILL MATERIAL BEHIND THE WALL. PROVIDE A MINIMUM WIDTH OF 12".
10. INSTALL AN APPROVED NON-WOVEN GEOTEXTILE TO PREVENT FINES FROM INFILTRATING THE POROUS BACKFILL.
11. INSTALL A PERFORATED OR SLOTTED DRAIN PIPE WITH A MINIMUM DIAMETER OF 6". DAYLIGHT PERFORATED PIPE THROUGH THE FACE OF WALL TO DRAIN. MAX. SPACING OF 50', DAYLIGHT TO DAYLIGHT.
12. CAP WITH A SURFACE SEAL CONSISTING OF IMPERVIOUS SOIL.
13. WALL HEIGHTS OVER 7 FEET SHALL BE APPROVED BY THE ENGINEER.
14. ROCKERIES 7 FEET AND LOWER SHALL BE CONSTRUCTED OF 5 MAN TO 2 MAN ROCKS (MR) FROM BOTTOM TO TOP.
15. THE SIZE CATEGORIES FOR ROCK SHALL BE AS FOLLOWS:

SIZE	APPROX. WEIGHT	DIMENSIONS
2MR	300 TO 800 LBS	12-18 INCHES
3MR	800 TO 1500 LBS	18-24 INCHES
4MR	1500 TO 2000 LBS	24-32 INCHES
5MR	2000 TO 3000 LBS	32-36 INCHES



**TYPICAL DITCH LEFT SIDE**



**TYPICAL ROCK CUT WITH ROCKERY WALL**

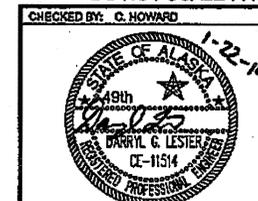
STA. 178+00 TO 181+00 RT  
 STA. 181+60 TO 182+60 RT  
 STA. 183+20 TO 184+60 RT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date: 1/15/13

SLOPE TABLE					
LEFT		STATION TO STATION	RIGHT		REMARKS
CUT	FILL		FILL	CUT	
	1.5:1	195+50 TO 196+65			
	2:1	197+15 TO 197+90			RIPRAP
	1.8:1	198+75 TO 198+90			
		238+70 TO 241+10	1.5:1		
	1.5:1	240+10 TO 240+70			
	1.5:1	255+65 TO 255+85			
	1.5:1	258+50 TO 258+70			

NOTE: SLOPE TABLE SHOWS SLOPES THAT VARY FROM THE TYPICAL SLOPES SHOWN.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

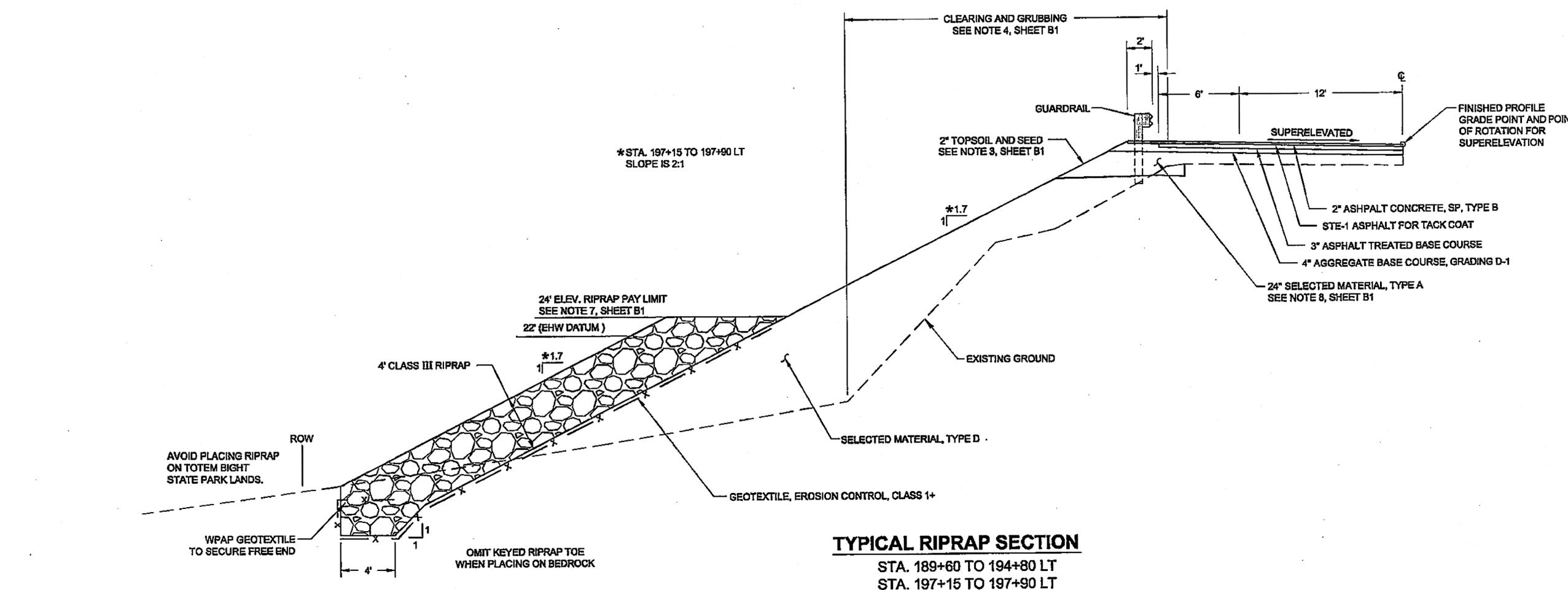


CHECKED BY: C. HOWARD  
 DESIGNED BY: D. LESTER, J. WEAVER  
 DRAWN BY: R. GRANTHAM  
 PATH: Q:\KTN67443\PLANSET\67443\_B1-B3\_TYP.DWG  
 TAB: B2 Wednesday, January 20, 2010 8:50:53 AM GRANTHAM, RICK L (DOT)

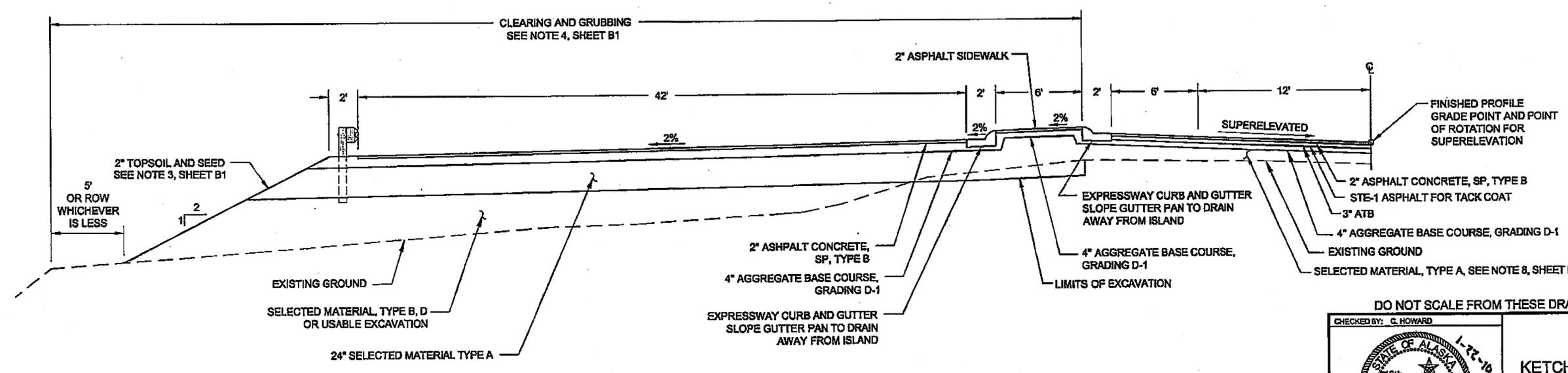
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION  
 KETCHIKAN - N. TONGASS HWY.  
 WARD COVE TO WHIPPLE CREEK  
 STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**TYPICAL SECTIONS**

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-ARA-0920(25) - 67443	2010	B2	102



**TYPICAL RIPRAP SECTION**  
 STA. 189+60 TO 194+80 LT  
 STA. 197+15 TO 197+90 LT



**TURNOUT TYPICAL**  
 STA. 195+10 TO 196+65 LT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE [Signature] Date: 1/15/13

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER, J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
 WARD COVE TO WHIPPLE CREEK  
 STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**TYPICAL SECTIONS**

PATH: G:\ACT\67443\PLANSET\67443\_B1-B3\_TYP.DWG  
 TAB: B3 Thursday, January 28, 2010 9:43:29 AM GRANTHAM, RICK L. (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-ARA-0920(25) - 67443	2010	B3	102

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

**ESTIMATE OF QUANTITIES**

ITEM NO	ITEM DESCRIPTION	PAY UNIT	QUANTITY
201 (1B)	CLEARING	LUMP SUM	ALL REQUIRED
201 (3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	26,856 27,264.40
202 (4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	2,196 2,340.2
202 (10)	SINGLE MAIL BOX INSTALLATION	EACH	19
202 (11)	MULTIPLE MAIL BOX INSTALLATION	EACH	-6 3
202(12)	DOUBLE MAIL BOX INSTALLATION	EACH	3 6
202 (13)	FLOWABLE FILL	CUBIC YARD	24 8
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	74,000 92,191.78
203 (6A)	BORROW, TYPE A	TON	5,000 5,274.97
203 (6B)	BORROW, TYPE B	TON	6,000 7,266.33
203 (10)	CONTROLLED BLASTING	SQUARE YARD	5,000 2,038.09
203(11)	DITCHLINE/SUBGRADE BLASTING	SQUARE YARD	4,600 55.6
203 (12)	DRAIN HOLES	LINEAR FOOT	2,600 1,680
203 (13)	STABILIZATION - ROCK BOLT	EACH	5 34
203 (19)	PRE-BLAST SURVEY	EACH	33 35
203 (20)	SUBGRADE REPAIR	CONTINGENT SUM	ALL REQUIRED
203 (21)	CONTROL OF INVASIVE PLANTS	LUMP SUM	ALL REQUIRED
203 (22)	SITE GRADING	LUMP SUM	ALL REQUIRED
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	LUMP SUM	ALL REQUIRED
306 (1)	ATB	TON	6,400 6,308.0
401 (1)	ASPHALT CONCRETE, SP, TYPE B	TON	4,900 4,833.76
401 (2)	ASPHALT CEMENT, GRADE PG64-28	TON	294 302.02
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	45 13.10
507 (6)	SAFETY RAILING	LINEAR FOOT	-197 178.7
511(1)	MECHANICALLY STABILIZED EARTH WALL	SQUARE FOOT	1,230 1,206.22
514 (1)	ROCKERY WALL	SQUARE FOOT	17,500 8,942.51
603 (1)-18	18 INCH CSP	LINEAR FOOT	34 30
603 (10)	81" X 59" INCH CORRUGATED ALUMINUM PIPE ARCH	LINEAR FOOT	105 105.7
603(21)-12	12 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	33 32.2
603 (21)-18	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	720 968.94
603 (21)-24	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	1,196 1,189.9
603 (21)-30	30 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	164 163.1
603 (21)-36	36 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	202 197.4
603 (21)-42	42 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	105 97.5
603 (21)-48	48 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	167 162.5
605 (6)	6 INCH PERFORATED CORRUGATED POLYETHYLENE PIPE FOR UNDERDRAIN	LINEAR FOOT	2,400 861.10
606 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	1,927 2154.15

**ESTIMATE OF QUANTITIES**

ITEM NO	ITEM DESCRIPTION	PAY UNIT	QUANTITY
606 (6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	1,117 1,626.3
606(9)	CONTROLLED RELEASE TERMINAL (CRT)	EACH	2
606 (11)	EXTRUDER TERMINAL (ET-PLUS)	EACH	-2 5
606 (13)	DOWNSTREAM END ANCHOR	EACH	3 4
608 (3)	ASPHALT SIDEWALK	SQUARE YARD	7,990 8003.51
609 (2)	CURB AND GUTTER, TYPE I	LINEAR FOOT	220 217.4
611 (1)	RIPRAP, CLASS III	CUBIC YARD	2,400 1736.07
611 (3)	RIPRAP SLOPE STABILIZATION	SQUARE YARD	460 4,253.65
615 (1)	STANDARD SIGN	SQUARE FOOT	378 391.93
618 (1)	SEEDING	ACRE	4 1,650.13
619 (2)	MATting	SQUARE YARD	500 0
620 (1)	TOPSOIL	SQUARE YARD	16,500 0
626 (3)	ADJUST SANITARY SEWER CLEANOUT	EACH	1
629 (1)	GUARDRAIL PAVING	LINEAR FOOT	2,000 2,191.0
630 (1)	GEOTEXTILE, SEPARATION	SQUARE YARD	7,500 9,074.58
633 (1)	SILT FENCE	LINEAR FOOT	4,005 0
635(2)	INSULATION BOARD	SQUARE FOOT	-640 200
639 (3)	DRIVEWAY	EACH	57 59
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 AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (2)	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
641 (6)	TEMPORARY ROCK CHECK DAM	EACH	-36 14.5
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (3)	THREE PERSON SURVEY PARTY	HOUR	80 37,046
642 (4)	SET PRIMARY MONUMENT	EACH	8
642 (10)	MONUMENT CASE	EACH	8
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
643 (30)	DETOUR PAVING	SQUARE YARD	2,970 2,707.03
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
645 (1)	TRAINING PROGRAM, 1 TRAINEES/APPRENTICES	LABOR HOUR	650
646 (1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
660 (3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
662 (1)	ELECTRICAL AND TELECOMMUNICATIONS RELOCATION	LUMP SUM	ALL REQUIRED
670 (8)	RECESSED PAVEMENT MARKER	EACH	140 12.7
670 (13)	INLAID METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

PATH: Q:\KTN67443\PLANS\SET167443\_C1\_EST.DWG  
 TAB: C1 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  
 No. DATE DESCRIPTION

Description	Unit	Unit Price	Quantity	Amount
Item Created by CO #1				
8.5 Mile Disposal Site Holding Tank Installation				
203(23)	L.S.	\$9,500.00	All Req'd	\$4,293.13
Item Created by CO #2				
633(1A) Silt Barrier	L.F.	\$10.00	5700.3	\$57,003.00
Item Created by CO #3				
641(5) Withholdings	C.S.		All Req'd	0
641(10) Consent Degree	C.S.	\$0.00	All Req'd	\$4,500.00
Adjustment				
Item Created by C.O.#4				
662(1A) Electrical & Telecommunication				
(Price Reduction)	L.S.	-9,950.00	1	-9,950.00
Item Created by C.O.#5				
643(30A) Detour Paving	S.Y.	\$18.70	2707.03	\$50,621.46
Paving Mix Change				
Item Created by C.O.#6				
203(20) Subgrade Repair	L.S.	\$7,044.91	All Req'd	\$7,004.91
Item Created by C.O.#7				
203(3A) Slope Stability	L.S.	\$3,295.91	All Req'd	\$3,295.91
Item Created by C.O.#8				
Select Material & Porous Backfill Gradation Requirements, No Cost				
Item Created by C.O.#9	L.S.	\$6,525.00	All Req'd	\$6,525.00
626(4) Misc. Utility Repair or Relocation				
Item Created by C.O.#10	L.S.	\$4,351.51	All Req'd	\$4,351.51
639(4) Misc. Additional Driveway Work				
Item Created by C.O.#11	L.S.	\$3,197.02	All Req'd	\$3,197.02
603(22) Misc. Drainage Work				
Item Created by C.O.#12	L.S.	\$43,293.97	All Req'd	\$43,293.97
201(1C) Slope Stability Clearing & Blow down Removal				
Item Created by C.O.#13	L.S.	\$2,385.00	All Req'd	\$2,385.00
203(3) Rock Excavation for CIP Wall				
Item Created by C.O.#14				
607(3-4) Chain Link Fence	L.F.	\$88.77	370	\$32,844.90
607(3-6) Chain Link Fence	L.F.	\$90.14	410	\$36,957.40
Item Created by C.O.#15				
203(3b) Rock Slope Ex.	L.S.	\$104,396.02		\$104,396.02
203(14) Rock Dowels	L.F.	\$97.00	2550	\$247,350.00
203(17) Rock fall Mesh	S.Y.	\$70.08	1,012.73	\$70,972,012
644(8) Lump Sum	L.S.	\$6,900.00	1	\$6,900.00
Item Extension				

**BASIS OF ESTIMATE**

ITEM NO.	ITEM	ESTIMATING FACTOR
201 (1B)	CLEARING	2 ACRES
201 (3B)	CLEARING AND GRUBBING	11 ACRES
203 (6A)	BORROW, TYPE A	1.7 TON/CY COMPACTED IN-PLACE
203 (6B)	BORROW, TYPE B	1.7 TON/CY COMPACTED IN-PLACE
203 (19)	PRE-BLAST SURVEY	33 HOMES
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	1.95 TON/CY COMPACTED IN-PLACE
306 (1)	ATB	120 LBS/SY/IN
401 (1)	ASPHALT CONCRETE, SP, TYPE B	120 LBS/SY/IN
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	6.0% OF ITEM 401(1)
402 (1)	STE ASPHALT FOR TACK COAT	0.1 GAL/SY, 243 GAL/TON

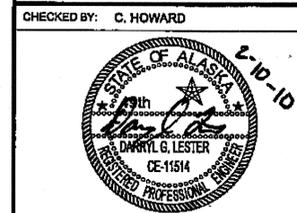
PAYMENT FOR OIL FOR ITEM 306 (1) ATB IS SUBSIDIARY

**MATERIALS ESTIMATE**

MATERIAL	QUANTITY
203 (3) UNCLASSIFIED EXCAVATION	74,000 CY
QTY OF 203 (3) THAT IS ROCK EXCAVATION (WITH 20% SWELL FACTOR)	34,000 CY
USABLE EXCAVATION FROM EXISTING ROADBED	12,400 CY
REQUIRED SELECTED MATERIAL TYPE A	32,000 CY
REQUIRED FILL MEETING SELECTED MATERIAL TYPE B, D OR USABLE EX.	21,000 CY
301 (1) AGGREGATE BASE COURSE, GRADING D-1	15,800 TONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 11/15/13

**PLAN LEGEND**



CHECKED BY: C. HOWARD  
 DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
 KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**ESTIMATE OF QUANTITIES**

PROJECT DESIGNATION  
**NH-ARA-0920(25)-67443**

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
C1	102

**202 (4) REMOVAL OF CULVERT PIPE**

STATION	OFFSET		DIAMETER (IN)	LENGTH (FT)	REMARKS
	LEFT	RIGHT			
174+25			24	67	N TONGASS HWY CMP CULVERT
175+16	24		18	78 77	MUD BAY ROAD
178+15	25		12	20	DRIVEWAY CSP CULVERT
183+59			18	66 54	N TONGASS HWY CSP CULVERT
185+86			18	80 43	N TONGASS HWY CSP CULVERT
187+84			30	54 52.5	N TONGASS HWY CSP CULVERT
191+16			24	57 58	N TONGASS HWY CSP CULVERT
197+13			30	59	N TONGASS HWY CMP CULVERT
201+95			48	102 107	N TONGASS HWY CSP CULVERT
206+20	33		24	42 36	ROCKY POINT DRIVE
207+25	34		12	40	DRIVEWAY CSP CULVERT
209+75			48	86	PT SUSAN CK - FISH STREAM
210+78	33		12	40 39	POINT SUSAN ROAD
214+02	34		18	33	KINGFISHER ROAD
214+20			18	48 47	N TONGASS HWY CSP CULVERT
216+13			30	55	N TONGASS HWY CSP CULVERT
216+42		21	24	67	D-1 LOOP
232+45	32		18	43 39.1	DRIVEWAY CSP CULVERT
232+89		27	18	38 21	DRIVEWAY CSP CULVERT
235+75	20		18	32	DRIVEWAY CSP CULVERT
236+50		23	0.5	34 39.6	DRIVEWAY (2 EACH) PVC
237+03		26	0.75	25 29.8	DRIVEWAY IRON PIPE
237+10	23		18	24	DRIVEWAY CSP CULVERT
238+92		40	36	38	DRIVEWAY CSP CULVERT
239+59		37	36	41	DRIVEWAY CSP CULVERT
240+05			36	64 65.8	N TONGASS HWY CSP CULVERT
241+23		24	18	20	DRIVEWAY CSP CULVERT
241+96			24	50 48.7	N TONGASS HWY CSP CULVERT
242+35		20	16	34 30.6	DRIVEWAY IRON PIPE
244+10		22	18	34 31.5	DRIVEWAY CSP CULVERT
245+30		20	18	24 23.7	DRIVEWAY CSP CULVERT
246+91		20	18	24	CONNIE LANE
249+59		23	18	45	DRIFTWOOD LANE
251+38			18	52	N TONGASS HWY CSP CULVERT
252+34		24	18	25 34.8	DRIVEWAY CSP CULVERT
252+49		40	5	20	SAWCUT PCP FLUSH WITH BACKSLOPE
253+44			24	52	N TONGASS HWY CSP CULVERT
253+97		23	18	26 25.6	DRIVEWAY CSP CULVERT
255+74			18	50	N TONGASS HWY CSP CULVERT
257+55			12	50	N TONGASS HWY CSP CULVERT
258+57			24	48	N TONGASS HWY CSP CULVERT
260+06		20	18	22	DRIVEWAY CSP CULVERT
260+28			18	50	N TONGASS HWY CSP CULVERT
261+34		21	24	32	DRIVEWAY CSP CULVERT
262+46			18	46	N TONGASS HWY CSP CULVERT
262+88		35	18	11	PRIVATE DRAINAGE
263+10		22	12	48 40.5	MEADOWWOOD LANE
263+61		19	12	22	DRIVEWAY CSP CULVERT - N/A
265+24		20	18	32 28.5	DRIVEWAY CSP CULVERT
267+37			24	78	N TONGASS HWY CSP CULVERT
* N: 1310631 E: 3083451			36	89 36.0	GRADING AND MATERIAL STOCKPILE SITE

\* 36" CULVERT TO BE ABANDONED IN PLACE AND FILLED WITH FLOWABLE FILL. SEE SECTION 202 IN THE SPECIAL PROVISIONS.

**626(3) ADJUST SANITARY SEWER CLEANOUT**

STATION	OFFSET	REMARKS
244+20	55 RT	LOCATION IS APPROXIMATE

**MAILBOX SUMMARY**

STATION	OFFSET	SINGLE	DOUBLE	MULTIPLE	REMARKS
202+00	20 LT	1			
206+60	20 LT		1		
206+63	20 LT	1			
211+17	20 LT		1		
211+20	20 LT	1			
214+45	20 LT		1		
214+48	20 LT	1			
230+98	20 LT	1			
232+84	20 LT	1			
233+43	20 LT	1			
236+03	20 LT	1			
236+88	20 RT	1			
238+10	20 RT			1	3 BOXES
238+72	20 RT	1			
245+50	20 RT	1			
245+60	20 LT	1			
247+21	20 RT			1	3 BOXES
247+26	20 RT			1	3 BOXES
249+41	29 RT	1			
251+04	20 LT	1			
254+12	20 RT	1			
254+99	20 RT			1	4 BOXES
255+03	20 RT	1			
259+86	20 RT	1			
263+45	20 RT			1	4 BOXES
263+49	20 RT			1	3 BOXES
265+46	20 RT	1			
267+69	20 RT	1			

202(4) REMOVAL OF CULVERT PIPE

STATION	OFFSET	DIAMETER	LENGTH	REMARKS
	LT RT	(IN)	(FT)	
235+60		18	29.5	DRIVEWAY CULVERT
256+50			20.0	DRIVEWAY CULVERT

**REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

STATION	OFFSET	DESCRIPTION	REMARKS
206+75	8 RT	KELLY NAUSID MEMORIAL	RETAIN FOR DEPARTMENT - UNDAMAGED
233+35	26 LT	VERTICAL LOG LANDSCAPING WALL	
235+37	30 RT	VERTICAL PIPE	
235+66	29 RT	VERTICAL PIPE	
235+88	42 RT	LOW ROCKERY WALL	
241+49	35 RT	BUS SHELTER	
242+04	26 RT	ROCKERY LINED GARDEN BED	
255+44	52 RT	EXPOSED STUMPS IN BEACHWOOD ROAD	
258+91	50 LT	SHED	
260+34	49 LT	SHED	
260+57	50 LT	FUEL OIL TANK	
261+85	50 LT	FUEL OIL TANK	
262+40	34 RT	WOOD FENCE	
262+63	46 LT	ATTACHED ADDITION TO MOBILE HOME	
263+45	32 RT	MILISA ANN JAKUBEK MEMORIAL	RETAIN FOR DEPARTMENT - UNDAMAGED

ADDITIONAL STRUCTURES AND OBSTRUCTIONS MAY BE ENCOUNTERED. REMOVE AND DISPOSE AS DIRECTED.

**635(2) INSULATION BOARD**

STATION	OFFSET	THICKNESS	AREA	REMARKS
217+03	37 RT	4	64	DITCH CROSSING
233+10	29 LT	4	64	CULVERT CROSSING
235+72	37 RT	4	64	DITCH CROSSING
244+20	37 RT	4	64	CULVERT CROSSING
245+61	37 RT	4	64	DITCH CROSSING
249+56	33 RT	4	320	SHALLOW BURIAL BELOW DRIFTWOOD LANE

LOCATIONS GIVEN ARE APPROXIMATE. PROVIDE LOCATES TO DETERMINE ACTUAL LOCATION.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Date 4/15/13  
PE: [Signature]

CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>KETCHIKAN - N. TONGASS HWY. WARD COVE TO WHIPPLE CREEK STAGE 2 TOTEM BIGHT TO WHIPPLE CREEK</b>				
DESIGNED BY: D. LESTER, J. WEAVER DRAWN BY: R. GRANTHAM		<b>SUMMARY TABLES</b>				
PATH: Q:\KTN67443\PLANSET\67443_01-03_SUM.DWG TAB: 01		GRANTHAM, RICK L (DOT) PROJECT DESIGNATION NH-ARA-0920(25) - 67443		YEAR 2010	SHEET NO. D1	TOTAL SHEETS 102
REVISIONS NO. DATE DESCRIPTION						

603 CULVERT INSTALLATION SUMMARY												
PIPE	INLET			OUTLET			LENGTH (FT)	SIZE	REMARKS	APPROX GRADE		
	STATION	OFFSET	INVERT	STATION	OFFSET	INVERT						
P-1	174+34.8	41.3	RIGHT	MATCH STREAM ELEV.	174+23.8	34.0	LEFT	MATCH STREAM ELEV.	76.0	24" CPP		
P-2	175+50.40	29.0	LEFT	34.30	174+66.30	41.4	LEFT	33.40	85.0	18" CPP	MUD BAY ROAD	
P-3	178+26.30	29.0	LEFT	37.30	177+96.00	29.0	LEFT	37.10	80.3	18" CPP		
P-4	182+04.60	29.0	LEFT	37.40	182+75.10	29.0	LEFT	36.90	70.5	18" CPP		
P-5	183+60.80	39.8	RIGHT	34.60	183+59.00	36.5	LEFT	33.50	76.3	24" CPP		
P-6	187+89.10	39.4	RIGHT	29.80	187+82.10	40.4	LEFT	26.80	80.1	30" CPP		
P-7	191+17.30	38.9	RIGHT	30.90	191+17.30	54.7	LEFT	23.20	88.9	24" CPP		
P-8	196+85.10	42.2	RIGHT	37.00	197+32.40	61.6	LEFT	29.20	114.4	36" CPP		
P-9	202+65.50	43.4	RIGHT	44.70	201+82.40	89.3	LEFT	40.10	166.9	48" CPP		
P-10	202+36.50	29.0	LEFT	49.10	202+07.80	29.0	LEFT	48.80	29.0	18" CPP		
P-11	207+04.00	32.5	LEFT	49.80	207+43.80	36.4	LEFT	49.40	40.4	18" CPP		
P-12	208+43.10	37.2	LEFT	47.90	208+80.00	35.7	LEFT	47.50	36.9	24" CPP		
P-13	209+79.30	49.8	RIGHT	34.10	209+81.70	55.2	LEFT	29.80	105.0	81" X 59" CAPA	FISH STREAM	
P-14	211+01.70	39.2	LEFT	50.00	210+52.70	36.2	LEFT	47.90	47.7	24" CPP	POINT SUSAN ROAD	
P-15	214+32.00	34.2	LEFT	55.80	213+79.00	33.1	LEFT	55.30	51.6	24" CPP	KINGFISHER ROAD	
P-16	216+80.90	40.2	RIGHT	65.00	216+47.50	35.9	LEFT	80.10	83.3	30" CPP		
P-17	231+26.30	39.4	RIGHT	95.30	231+16.10	36.5	LEFT	92.00	76.7	24" CPP		
P-18	231+60.00	37.0	RIGHT	96.80	231+29.80	39.2	RIGHT	95.20	30.2	18" CSP		
P-19	232+59.00	29.0	LEFT	98.50	232+29.40	36.0	LEFT	97.40	30.4	18" CPP		
P-20	233+37.90	29.0	LEFT	99.40	233+05.80	29.0	LEFT	99.20	32.1	12" CPP	HIDDEN COVE ROAD	
P-21	235+45.20	37.0	RIGHT	98.80	235+70.60	37.0	RIGHT	98.50	25.4	18" CPP		
P-22	235+44.70	29.0	LEFT	98.90	235+92.70	29.0	LEFT	98.30	46.0	18" CPP		
P-23	236+08.00	29.0	LEFT	98.00	236+38.50	29.0	LEFT	97.50	28.5	18" CPP		
P-24	236+86.80	37.0	RIGHT	96.40	237+19.00	37.0	RIGHT	95.60	32.2	18" CPP		
P-25	236+97.00	29.0	LEFT	96.20	237+26.80	29.0	LEFT	95.60	29.8	18" CPP	SEABOLT LANE	
P-26	237+70.70	29.0	LEFT	94.60	238+01.00	29.0	LEFT	93.90	30.3	18" CPP	KLAWOCK WAY	
P-27	238+72.50	47.1	RIGHT	85.80	239+12.70	47.1	RIGHT	85.10	40.2	36" CPP		
P-28	239+33.00	47.1	RIGHT	84.80	239+79.50	47.1	RIGHT	84.00	46.5	36" CPP		
P-29	240+02.10	48.9	RIGHT	82.40	240+21.90	53.5	LEFT	73.90	104.6	42" CPP		
P-30	241+86.50	39.1	RIGHT	89.50	241+45.90	39.1	RIGHT	88.80	40.6	24" CPP	BRENTWOOD LANE	
P-31	241+95.50	39.1	RIGHT	89.00	241+81.20	39.1	LEFT	85.00	79.5	24" CPP		
P-32	242+48.20	37.0	RIGHT	90.50	242+21.30	37.0	RIGHT	90.20	26.9	24" CPP	NORTH SHORE GARDENS	
* (P-33)	244+30.00	37.0	RIGHT	93.90	244+03.60	37.0	RIGHT	93.20	26.4	24" CPP	Changed from 24" CPP to 2-18" CPP due to elev. & CONFLICT WITH EXISTING SEWERLINE ADJACENT TO P-33A	
P-34	245+42.30	37.0	RIGHT	96.80	245+18.10	37.0	RIGHT	96.10	28.2	24" CPP		
P-35	247+07.60	37.0	RIGHT	99.60	246+76.60	37.0	RIGHT	99.20	31.0	18" CPP	CONNIE LANE	
P-36	251+52.60	40.0	RIGHT	97.60	251+36.60	39.7	LEFT	94.00	81.4	24" CPP		
P-37	253+46.00	39.3	RIGHT	97.30	253+43.60	38.6	LEFT	93.20	79.0	24" CPP		
P-38	254+01.80	37.0	RIGHT	98.50	253+76.70	37.0	RIGHT	98.30	25.1	18" CPP		
P-39	255+75.40	39.3	RIGHT	98.90	255+70.50	38.7	LEFT	95.00	78.2	24" CPP		
P-40	257+54.90	38.1	RIGHT	102.70	257+55.60	36.6	LEFT	93.00	69.4	24" CPP	DELETED	
P-41	258+56.60	40.0	RIGHT	104.40	258+56.60	36.9	LEFT	101.00	77.0	24" CPP		
P-42	260+18.30	37.0	RIGHT	111.10	259+82.90	37.0	RIGHT	110.20	25.4	18" CPP		
P-43	261+47.10	37.0	RIGHT	115.80	261+19.30	37.0	RIGHT	114.80	27.6	18" CPP		
P-44	263+30.60	37.0	RIGHT	122.50	262+96.20	37.0	RIGHT	121.20	34.4	18" CPP	MEADOWWOOD LANE	
P-45	265+38.50	37.0	RIGHT	129.80	265+13.10	37.0	RIGHT	129.00	25.4	18" CPP		
P-46	267+49.80	39.7	RIGHT	132.40	267+24.90	38.7	LEFT	130.70	82.2	24" CPP		
P-47	N: 1310664.825 E: 3083467.913			18.44	N: 1310608.028 E: 3083428.124			16.00	69.4	24" CPP	EXCESS MATERIAL DISPOSAL SITE	
P-48	N: 1310710.987 E: 3083402.607			19.24	N: 1310670.284 E: 3083460.219			18.53	70.6	18" CPP	EXCESS MATERIAL DISPOSAL SITE	
P-48A	NO SURVEY DATA FOR LOCATION - SEE SHEET F20							73.2			18" CPP	
	D1 LOOP Rd House #157 APPROACH CULVERT							27.3			18" CPP	

PIPE	INLET			OUTLET			LENGTH	SIZE	REMARKS
	STATION	OFFSET	INVERT	STATION	OFFSET	INVERT			
P-9B	202+00						52.1	18"	
P-33*	244+30	38.0 RT					26.9	18"	
ROCKERY WALL #1	244+35						10.0	18"	INSTALLED CPP THROUGH THE ROCKERY WALL
ROCKERY WALL #2	251+49						10.0	18"	
P-33A	244+30						26.4	18"	

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed. Date 1/11/13

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

**SUMMARY TABLES**

DESIGNED BY: D. LESTER, J. WEAVER  
DRAWN BY: R. GRANTHAM

PATH: Q:\KTM\67443\PLANSET\67443\_D1-03\_SUM.DWG  
TAB: D2 Tuesday, January 23, 2010 2:00:42 PM GRANTHAM, RICK L (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-ARA-0920(25) - 67443	2010	D2	102

**639 (3) DRIVEWAY SUMMARY**

STATION	OFFSET	WIDTH	LANDING	RADIUS	REMARKS
175+16.41	LT	37.5	30	40	MUD BAY ROAD
178+11.33	LT	14	10	20	
180+07.22	LT	14	10	20	
182+39.17	LT	22	30	40	TOTEM BIGHT
185+35.02	LT	36	10	40	TOTEM BIGHT PARKING
202+22.45	LT	14	10	20	
206+20.26	LT	20	30	40	ROCKY POINT DRIVE
207+24.84	LT	18	10	20	
208+81.30	LT	20	10	20	
210+77.74	LT	16	30	40	POINT SUSAN ROAD
214+08.15	LT	18	30	40	KINGFISHER ROAD
215+75.42	LT	14	10	20	
216+50.82	RT	28	30	RT 20, LT 40	D-1 LOOP
216+68.75	LT	12	10	20	
231+46.02	RT	20	13	20	
232+38.29	LT	12	10	20	
232+85.21	RT	14	15	20	
233+22.09	LT	18	10	20	HIDDEN COVE ROAD
233+60.34	LT	12	10	20	
235+57.71	RT	14	15	20	
235+74.32	LT	20	10	20	
236+21.77	LT	12	10	20	
237+03.85	RT	20	15	RT 10, LT 20	
237+09.72	LT	14	10	20	SEABOLT LANE
237+76.41	LT	14	30	20	KLAWOCK LANE
237+85.98	RT	14	13	20	
238+94.36	RT	14	13	20	
239+59.73	RT	14	13	20	
241+15.58	LT	18	5	20	
241+71.70	RT	18	23.2	40	BRENTWOOD LANE
242+28.45	LT	20	10	RT 20, LT 17	
242+34.93	RT	16	15	20	
242+86.01	LT	16	10	20	
244+14.85	LT	21	10	30	VICTORSON COURT
244+24.72	RT	14	15	20	
245+31.09	RT	14	15	20	
245+79.41	LT	13	7.5	RT 15, LT 20	
246+89.98	RT	14	15	30	CONNIE LANE
246+95.62	LT	19	10	30	COBURN ROAD
248+07.83	LT	14	10	RT 20, LT 9.5	GRAVEL APPROACH
248+42.55	LT	20	30	30	MECCA BAR AND RESTAURANT
249+58.68	RT	20	13	30	DRIFTWOOD LANE
250+11.70	LT	24	30	30	MECCA BAR AND RESTAURANT
250+84.78	LT	14	10	20	PACIFIC COURT
252+31.07	RT	14	15	20	
253+89.39	RT	14	15	RT 15, LT 20	
255+32.11	RT	20	15	30	BEACHWOOD ROAD
254+99 255+45.28	LT	14	5	20	SHULL ROAD - RELOCATED TO 254+99
257+99.00	RT	14	15	20	
258+36.70	LT	14	5	20	
260+06.24	RT	14	15	20	
261+33.97	RT	16	15	20	
263+17.12	RT	18	15	30	MEADOWWOOD LANE
263+78.85	LT	20	10	35	
265+25.82	RT	14	15	20	
267+29.19	RT	16	15	40	JOHANNSEN ROAD
273+07.00	RT	24	NA	40	
254+80	LT				BURNS

**606 (1) W-BEAM GUARDRAIL**

FROM STA	TO STA	LENGTH	REMARKS
189+53 LT	195+08 LT	555.13'	
195+10 LT	196+65 LT	155.12'	TURNOUT
196+67 LT	200+45 LT	335.35'	
255+65 LT	258+26 LT	285.26'	MATCH TO APPROACH GUARDRAIL
258+47 LT	263+65 LT	539.45'	
209+25 LT	210+25 LT	100'	PT. SUSAN CREEK

**606 (6) GUARDRAIL REMOVAL SUMMARY**

FROM STA	TO STA	LENGTH	REMARKS
189+15 LT	194+89 LT	575.18'	
EXCESS MATERIAL DISPOSAL SITE			540

DELIVER MATERIALS TO DOT/PF MAINTENANCE

**606 (9) CRT**

STATION	OFFSET	REMARKS
195+08	LT	
263+66	LT	CHANGED TO DOWNSTREAM END ANCHOR
210+25	LT	

**606 (11) ET-PLUS**

STATION	OFFSET	REMARKS
189+15	LT	
200+82	LT	
208+91	LT	

**606 (13) DOWNSTREAM END ANCHOR**

STATION	OFFSET	REMARKS
196+67	LT	
255+54	LT	
258+46	LT	
263+63	LT	

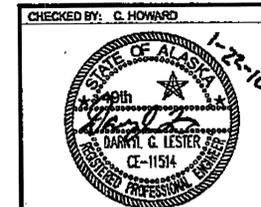
**RIGHT OF WAY REFERENCE MONUMENT SUMMARY**

STATION	OFFSET	REMARKS
180+25	16 LT	
196+00	23 LT	
204+50	16 LT	
213+50	18 RT	
224+00	16 LT	
234+10	16 LT	
247+85	16 LT	
269+00	16 LT	

**NOTES:**

THE LOCATIONS OF THE PROPOSED RIGHT OF WAY REFERENCE 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. THESE MONUMENTS ARE EXEMPT FROM THE REQUIREMENT IN SUBSECTION 642-3.03 OF THE STANDARD SPECIFICATIONS TO PREPARE AND FILE A MONUMENT RECORD FORM AND FROM SUBSECTION 642-3.05 TO PERFORM A FINAL TRAVERSE. DOT&PF WILL TIE THESE MONUMENTS TO THE EXISTING CONTROL.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE MGB Date 11/15/13

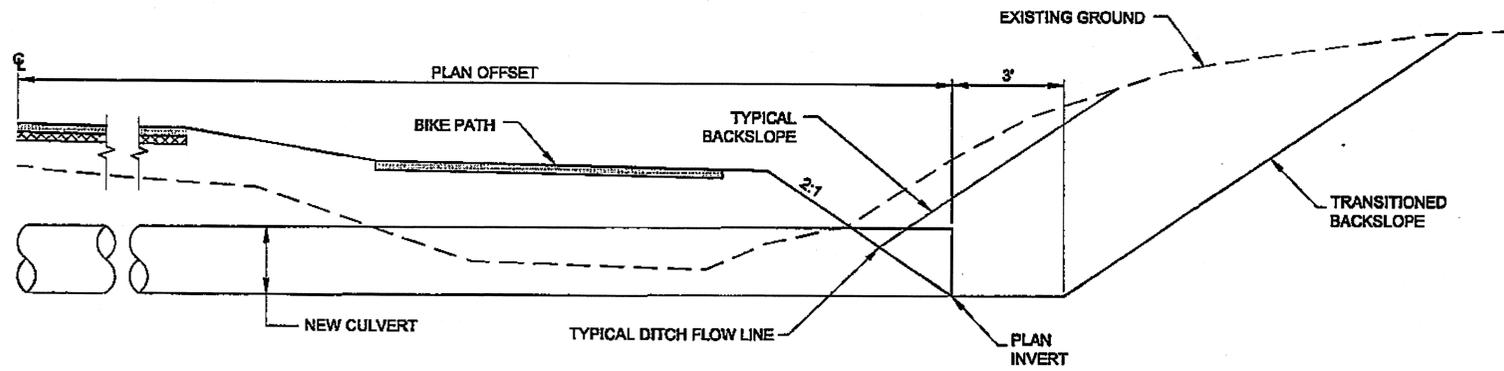


CHECKED BY: C. HOWARD  
DESIGNED BY: D. LESTER, J. WEAVER  
DRAWN BY: R. GRANTHAM

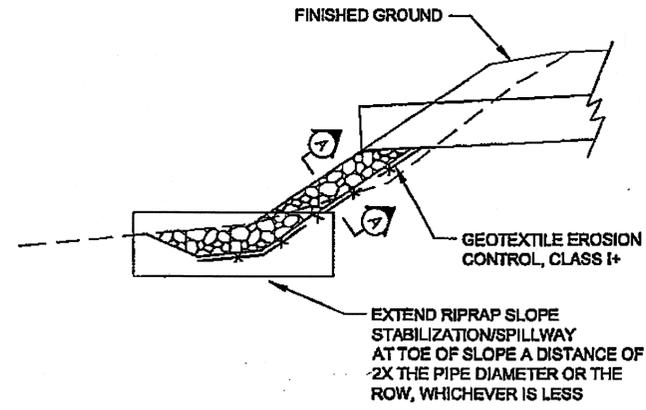
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

**SUMMARY TABLES**

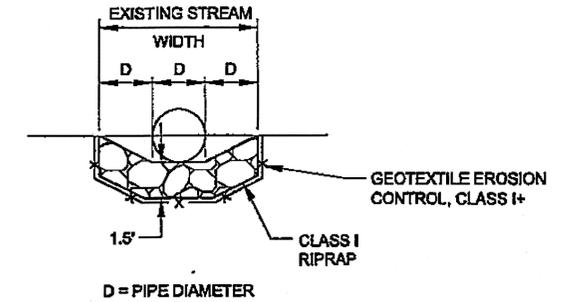
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NO.	DATE	DESCRIPTION	NH-ARA-0920(25) - 67443		2010	D3	102



**SECTION**

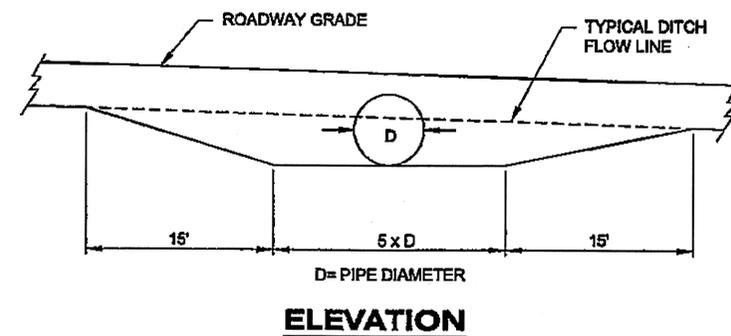


**ROADWAY SECTION**

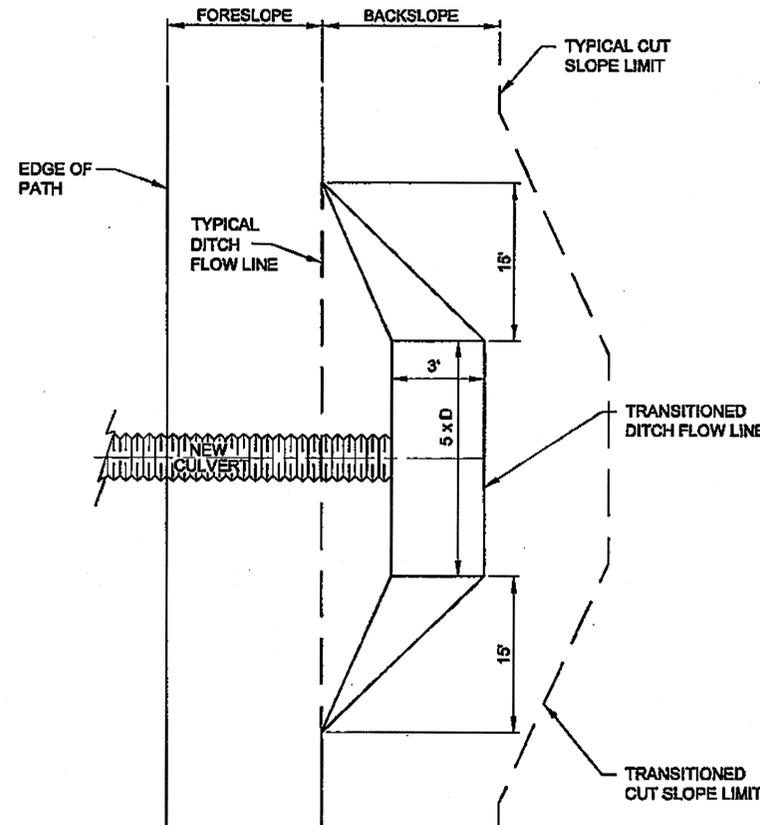


**SECTION "A-A"**

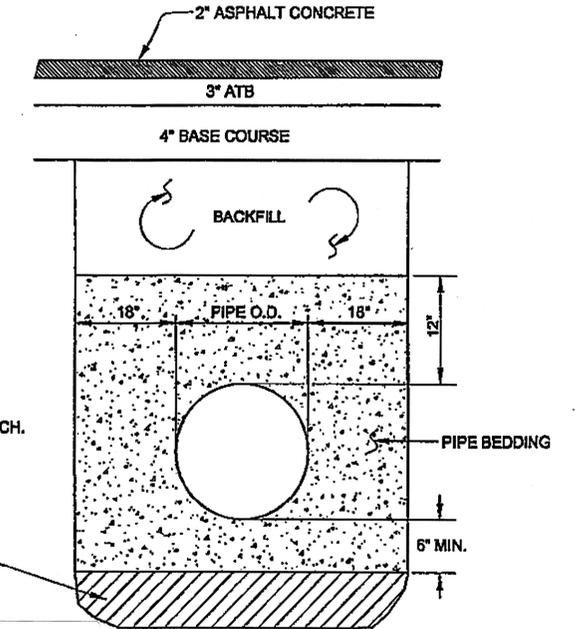
**RIPRAP SLOPE STABILIZATION/SPILLWAY DETAILS**



**ELEVATION**



**PLAN VIEW  
DITCH TRANSITION  
ROCK OR SOIL CUT**



**NOTE:**  
AT PT. SUSAN CREEK STA. 209+80  
INCREASE BEDDING DIMENSION TO  
24" BESIDE AND BELOW THE PIPE ARCH.

REMOVE UNSUITABLE MATERIAL  
WHEN AUTHORIZED. PAID FOR  
AS UNCLASSIFIED EXCAVATION.  
REPLACE WITH PIPE BEDDING  
MATERIAL

Project As-Built Drawings have been  
reviewed by the Project Engineer and  
represented to the best of my knowledge,  
the project as constructed.  
PE No. 11512 Date 1/15/10

**CULVERT BEDDING/BACKFILL DETAIL**

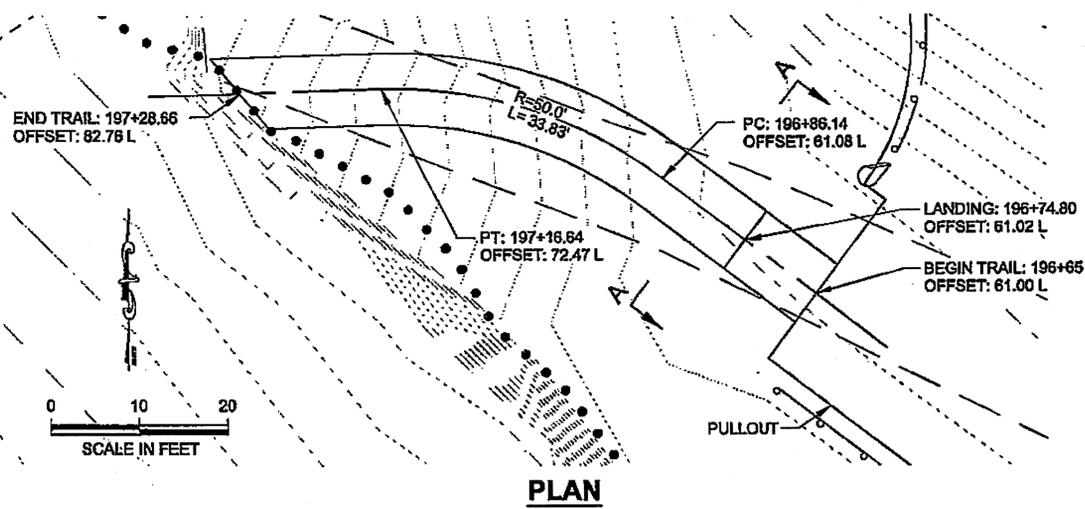
**DITCH TRANSITION NOTES:**

- STANDARD DITCH GRADE TRANSITIONS FROM V BOTTOM DITCH TO 3 FT. FLAT BOTTOM DITCH.
- AT THE DIRECTION OF THE ENGINEER, TEMPORARY CHECK DAMS MAY BE REQUIRED AT LOCATIONS OTHER THAN THOSE SPECIFIED.
- LINE DITCHES WITH CLASS I RIPRAP AS DIRECTED TO CONTROL EROSION AND STABILIZE CHANNEL.
- TRANSITION NEW DITCH SMOOTHLY TO MATCH EXISTING CONDITIONS AS DIRECTED BY THE ENGINEER.

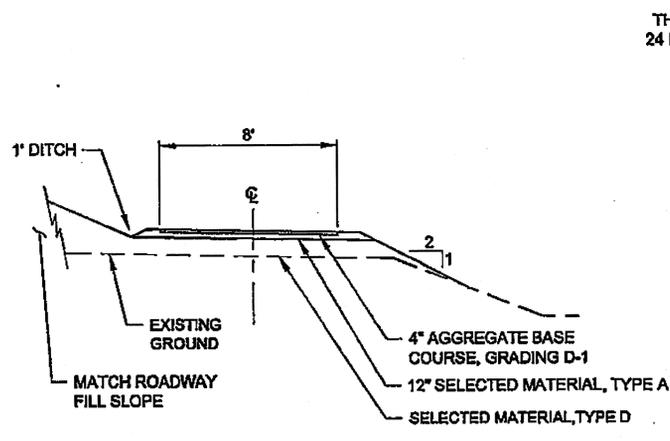
**DITCH TRANSITION DETAIL**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

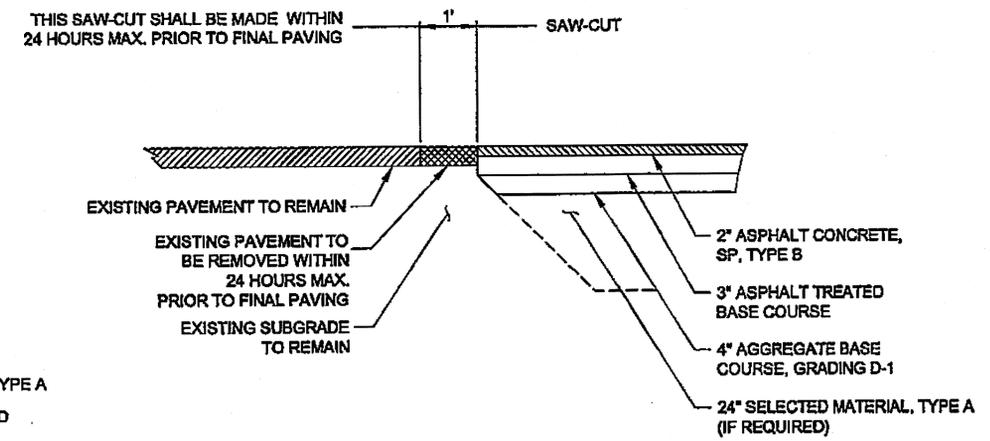
CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: D. LESTER, J. WEAVER DRAWN BY: R. GRANTHAM		<b>KETCHIKAN - N. TONGASS HWY.          WARD COVE TO WHIPPLE CREEK          STAGE 2          TOTEM BIGHT TO WHIPPLE CREEK</b>	
PATH: G:\KTM\67443\PLANS\ET167443_E1-E4_DET5.DWG TAB: E1		<b>MISCELLANEOUS          DETAILS</b>	
Wednesday, January 20, 2010 11:04:21 AM GRANHAM, RICK L (DOT)		YEAR 2010	SHEET E1
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION NH-ARA-0920(25) - 67443	TOTAL SHEETS 102



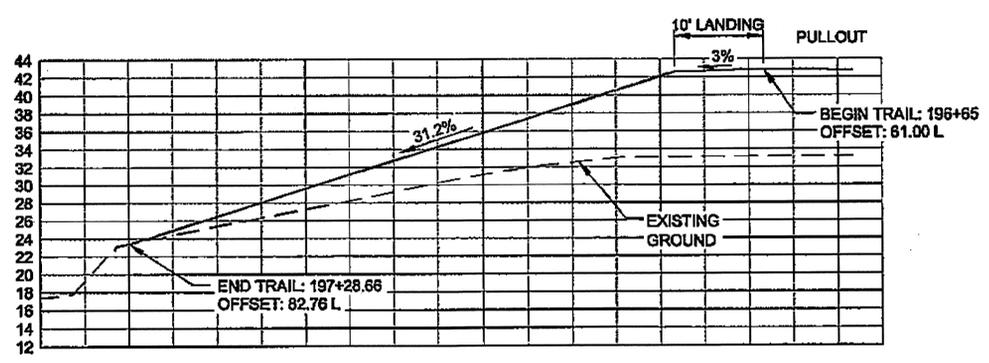
**PLAN**



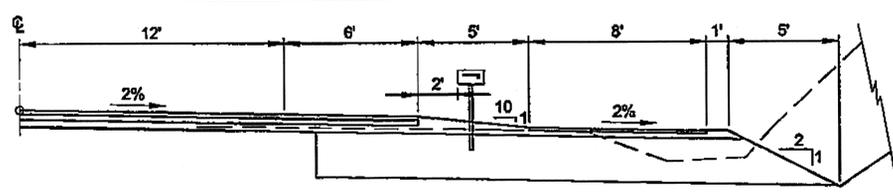
**SECTION A-A**  
NTS



**PAVEMENT MATCH JOINT DETAIL**  
NTS

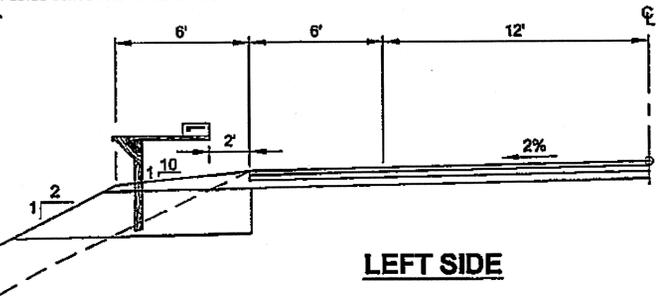


**PROFILE**  
**BEACH ACCESS TRAIL**



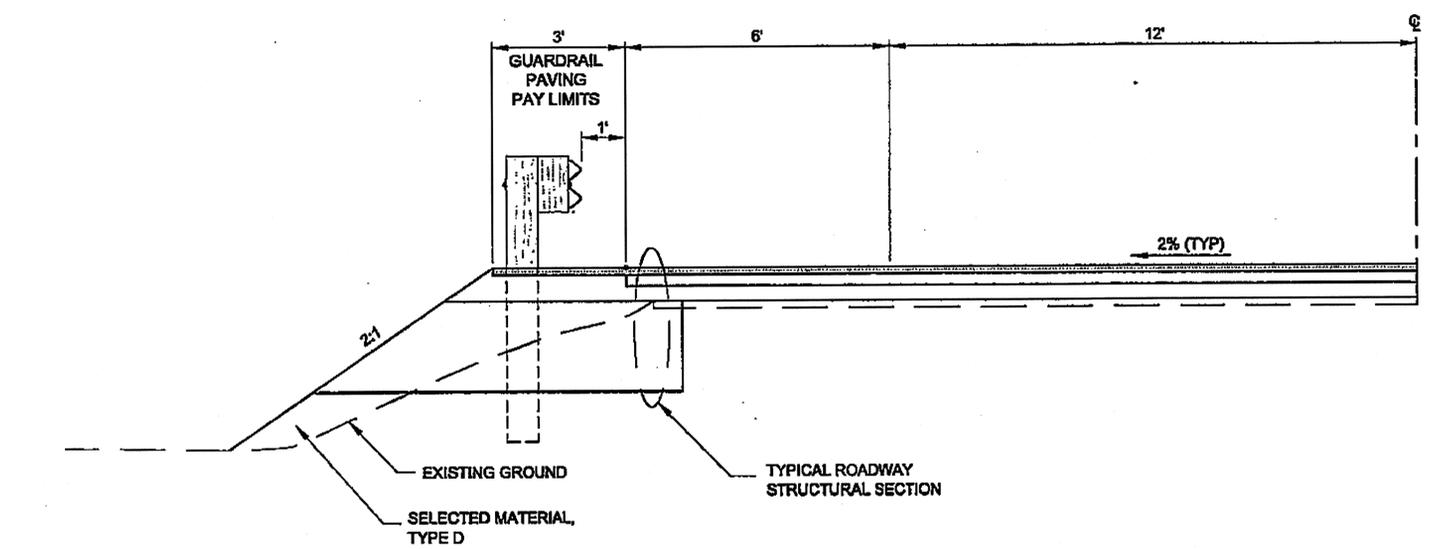
**RIGHT SIDE**

- MAILBOX NOTES:**
- MAILBOX INSTALLATION ON THE RIGHT SIDE SHALL CONFORM TO STANDARD DRAWING M-23.12 USING METAL POST SUPPORTS FOR BOTH MULTIPLE BOX AND SINGLE BOX INSTALLATIONS.
  - MAILBOX INSTALLATION ON THE LEFT SIDE SHALL CONFORM TO STANDARD DRAWING M-23.12 USING THE TYPICAL WOOD CANTILEVER INSTALLATION.



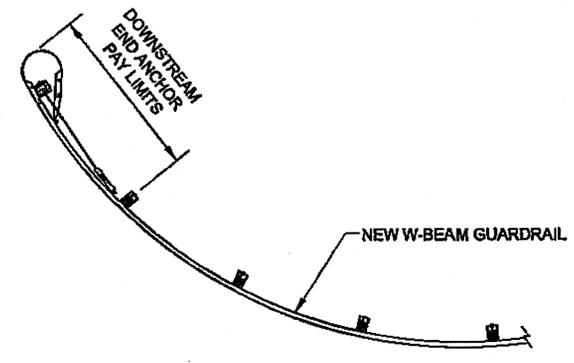
**LEFT SIDE**

**MAILBOX LOCATIONS**  
NTS



**TYPICAL GUARDRAIL SECTION**  
NTS

NOTE: IN AREAS WHERE GUARDRAIL IS INSTALLED, LIMIT MATERIAL SIZE TO 8" MINUS FOR DRIVING GUARDRAIL POSTS.



SEE STD DWG G-13.00 FOR DETAILS OF CONSTRUCTION.

**DOWNSTREAM END ANCHOR DETAIL**  
NTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PEMB Date: 1/15/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER, J. WEAVER  
DRAWN BY: R. GRANTHAM

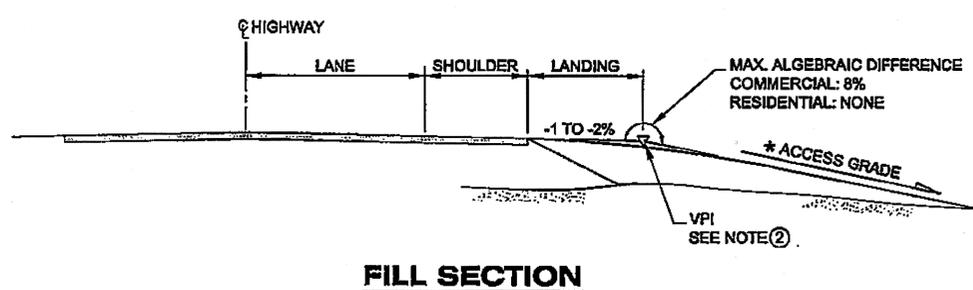
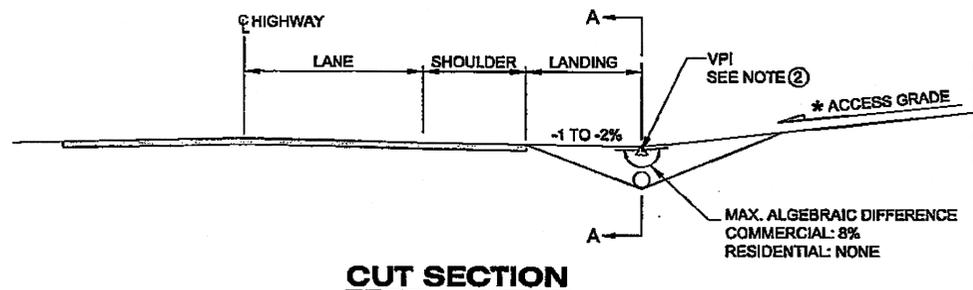
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

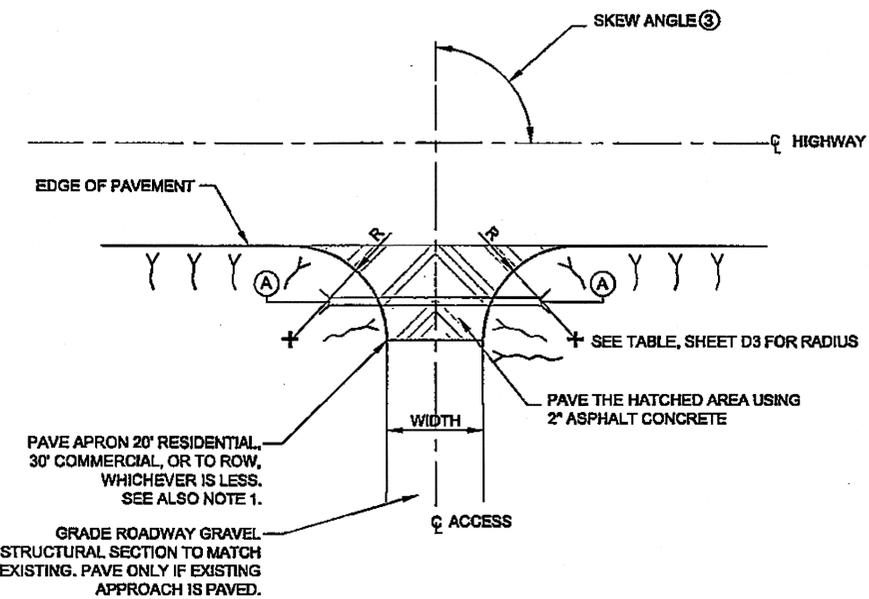
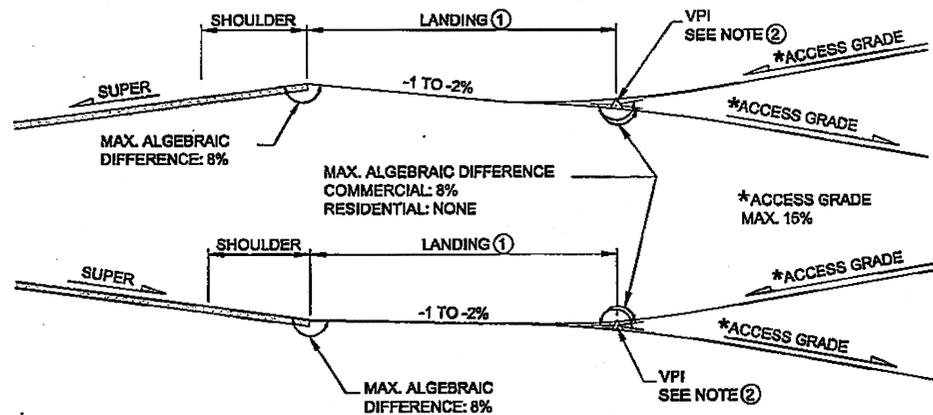
**MISCELLANEOUS  
DETAILS**

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-ARA-0920(25) - 67443	2010	E2	102



\* ACCESS GRADE MAX. 15%

**APPROACH PROFILES**



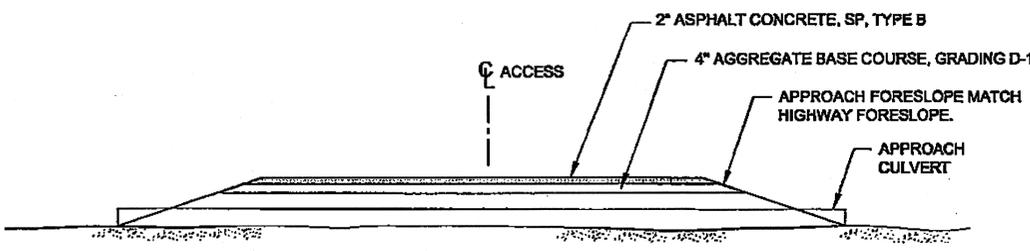
**PLAN VIEW  
APPROACH DETAILS**

**LANDING TABLE (TYP)**

APPROACH TYPE	LENGTH ①
RESIDENTIAL	10'
COMMERCIAL	30'

**NOTES:**

- SEE G SHEETS FOR SPECIAL CASE APPROACHES. SEE TABLE, SHEET D3 FOR SPECIFIC LANDING LENGTHS.
- APPROACH VERTICAL CURVES REQUIREMENTS: CREST- 3/4" MAXIMUM HUMP IN 10' CHORD SAG-2" MAXIMUM DEPRESSION IN 10' CHORD
- THE SKEW ANGLE IS DEFINED AS A RIGHT ANGLE OR THE ACUTE ANGLE OF THE INTERSECTING CENTERLINES. IN NO CASE SHALL THE SKEW ANGLE BE LESS THAN 60 DEGREES.
- PROVIDE DITCHING ON RECONSTRUCTED DRIVEWAYS AS DIRECTED.



**NOTES:**

- BEYOND PAVED APRON, SURFACE WITH 4" AGGREGATE BASE COURSE, GRADING D-1.

**SECTION A-A  
APPROACH TYPICAL**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE/MS Date: 1/15/13

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER, J. WEAVER

DRAWN BY: R. GRANTHAM

PATH: C:\KTM\87443\PLANS\ET\87443\_E1-E4\_DET.DWG

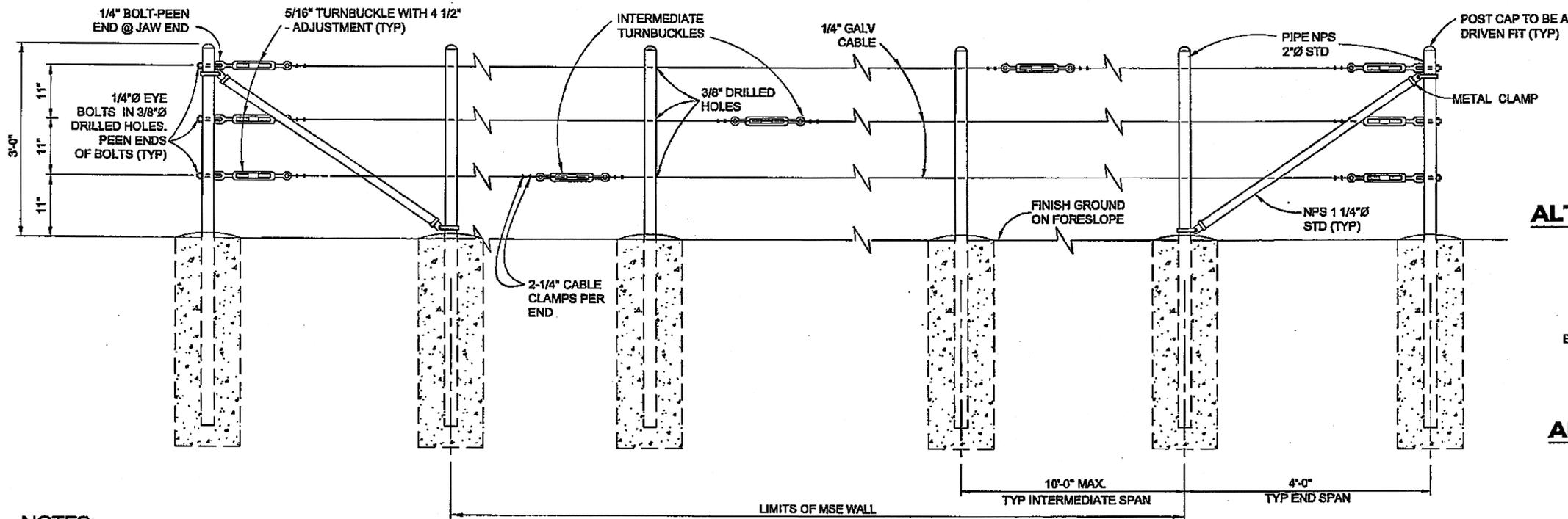
TAB: E3 Wednesday, January 20, 2010 9:07:32 AM GRANTHAM, RICK L (DOT)

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

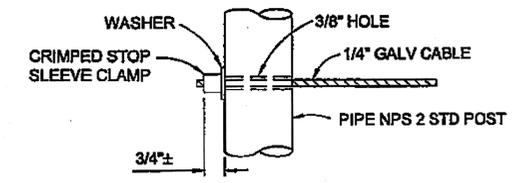
KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**MISCELLANEOUS  
DETAILS**

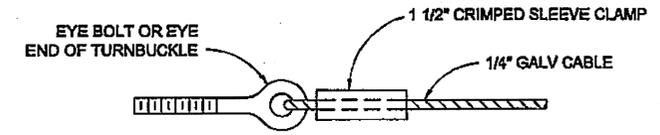
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-ARA-0920(25) - 67443	2010	E3	102



**ALTERNATIVE DEAD END ANCHORAGE**



NTS



**ALTERNATIVE CABLE CONNECTION**

NTS

**NOTES:**

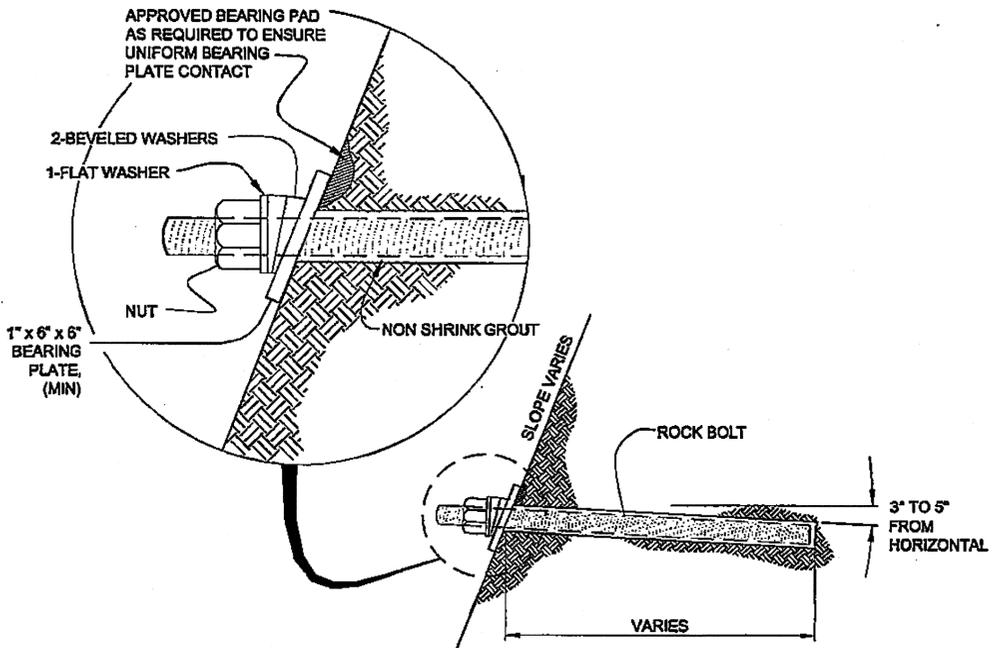
1. INTERMEDIATE TURNBUCKLES TO BE PLACED IN ADJACENT SPANS.
2. DO NOT SPLICE CABLE BETWEEN INTERMEDIATE TURNBUCKLES AND END POSTS.
3. ALL POSTS, CABLE AND HARDWARE TO BE GALVANIZED.
4. POSTS TO BE PLUMB.
5. ALIGNMENT OF HOLES IN POSTS MAY VARY TO CONFORM TO SLOPE OF TOP OF RETAINING WALL.
6. VERIFY ALL CONTROLLING DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.
7. LINE POSTS SHALL BE BRACED HORIZONTALLY AND TRUSSED DIAGONALLY IN BOTH DIRECTIONS, AT EACH END.
8. LOCATE POSTS AS CLOSE BEHIND MSE WALL AS POSSIBLE.
9. PROVIDE THIMBLES AT ALL CABLE LOOPS.
10. DO NOT PLACE POST DIRECTLY BENEATH GIRDER BOTTOM FLANGES.

**ELEVATION**

NTS

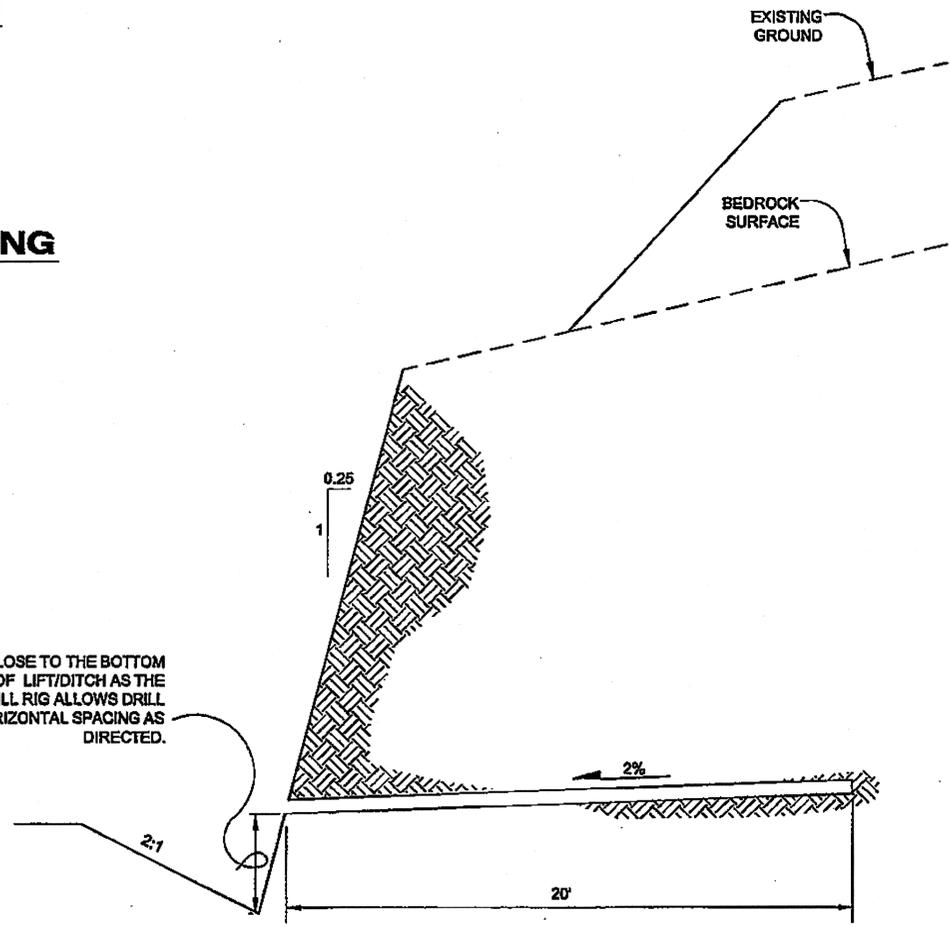
**SAFETY RAILING**

NTS

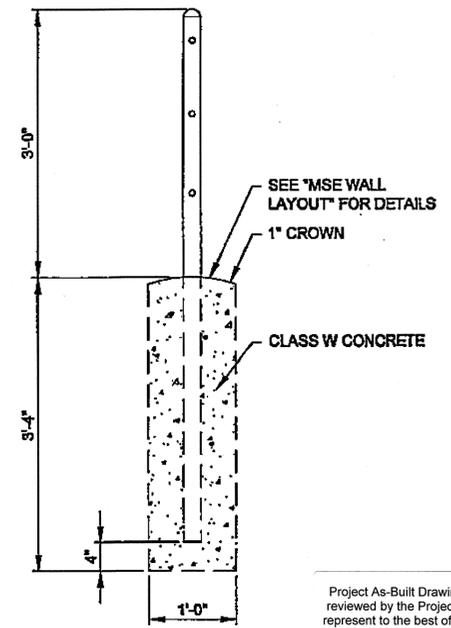


**ROCK BOLT DETAIL**

AS CLOSE TO THE BOTTOM OF LIFT/DITCH AS THE DRILL RIG ALLOWS DRILL ON HORIZONTAL SPACING AS DIRECTED.



**ROCK SLOPE DRAIN HOLE DETAIL**



**CONCRETE POST SETTING**

NTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date: 4/13/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER, J. WEAVER  
 DRAWN BY: R. GRANHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD COVE TO WHIPPLE CREEK  
 STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**MISCELLANEOUS DETAILS**

PATH: Q:\KT\67443\PLANS\SET\67443\_E1-E4\_DET.DWG  
 TAB: E4 Wednesday, January 20, 2010 9:09:12 AM GRANHAM, RICK L. (DOT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-ARA-0920(25) - 67443	2010	E4	102

No.	DATE	DESCRIPTION

Project As-Built Drawings have been reviewed by the Project Engineer and represented to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date: 11/15/13

**PLAN LEGEND**

CHECKED BY: C. HOWARD



DESIGNED BY: N. GEARY

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

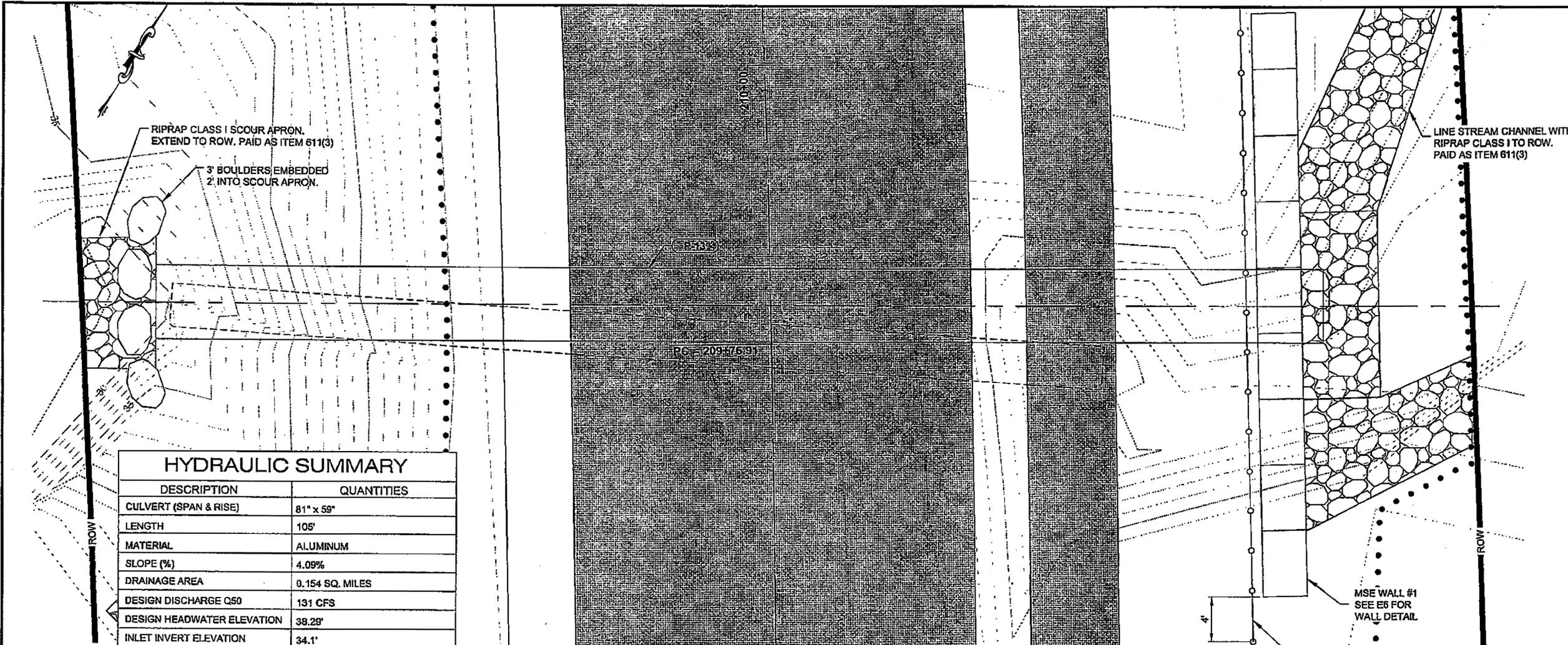
KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**MISCELLANEOUS DETAILS**

PROJECT DESIGNATION  
 NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010

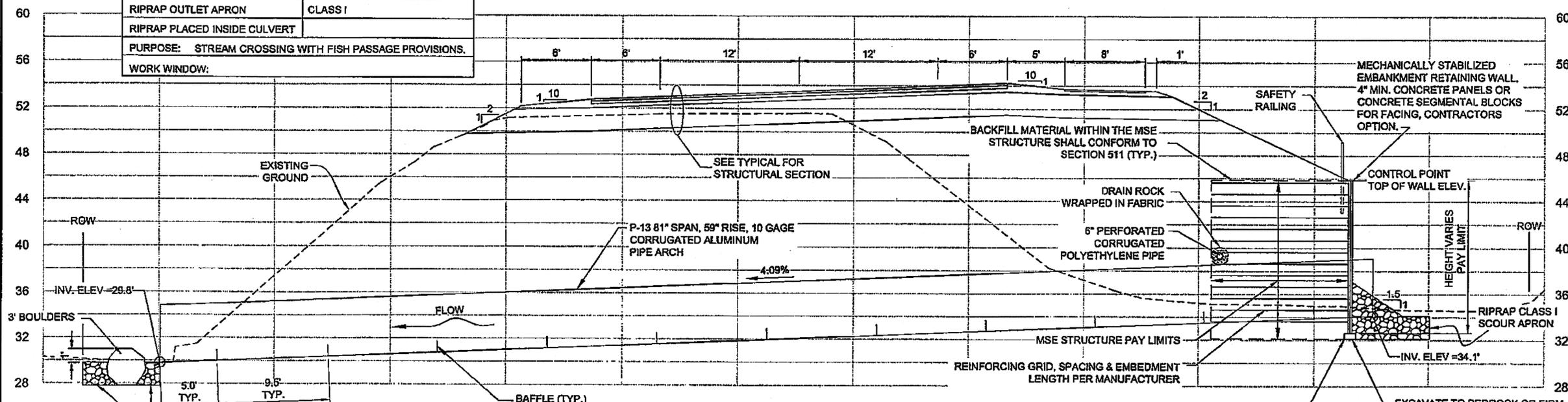
SHEET NUMBER	TOTAL SHEETS
E5	102



**MSE WALL #1/P-13 PT SUSAN CREEK**

PLAN VIEW

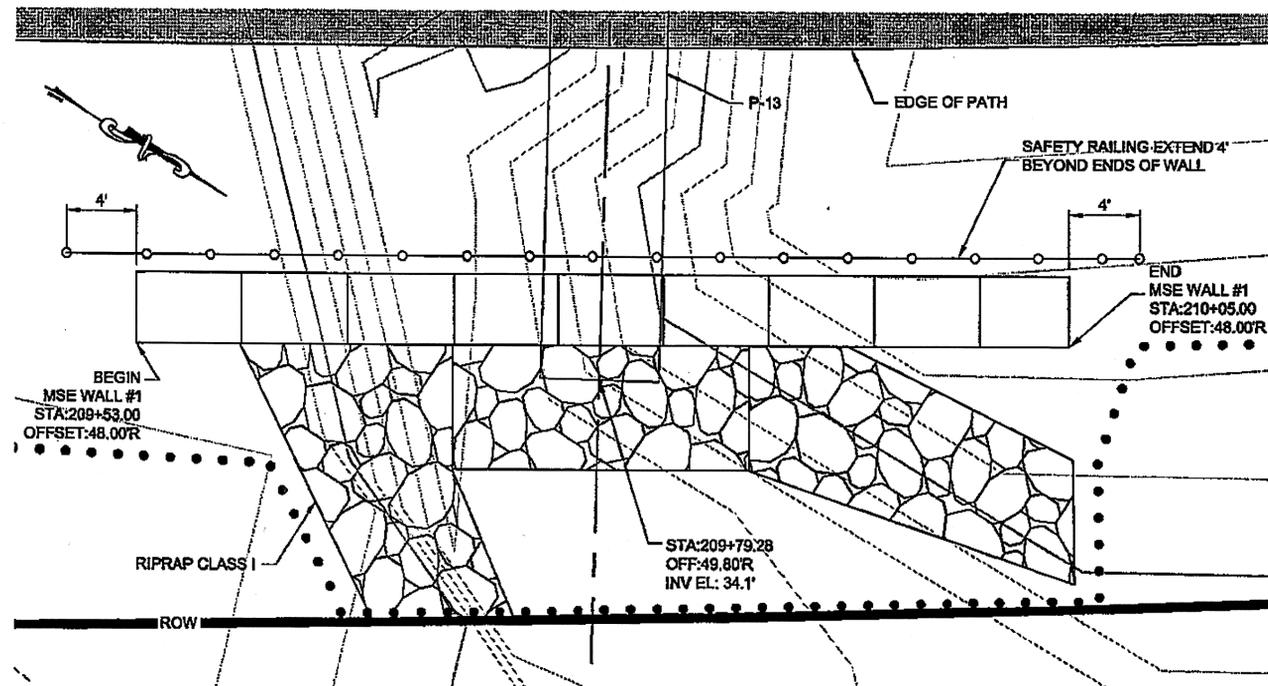
HYDRAULIC SUMMARY	
DESCRIPTION	QUANTITIES
CULVERT (SPAN & RISE)	81" x 59"
LENGTH	105'
MATERIAL	ALUMINUM
SLOPE (%)	4.09%
DRAINAGE AREA	0.154 SQ. MILES
DESIGN DISCHARGE Q50	131 CFS
DESIGN HEADWATER ELEVATION	38.29'
INLET INVERT ELEVATION	34.1'
OUTLET INVERT ELEVATION	29.8'
DISCHARGE @ HW/D=1.0	183 CFS
RIPRAP OUTLET APRON	CLASS I
RIPRAP PLACED INSIDE CULVERT	
PURPOSE: STREAM CROSSING WITH FISH PASSAGE PROVISIONS.	
WORK WINDOW:	



**MSE WALL #1/P-13 PT SUSAN CREEK**

SECTION VIEW

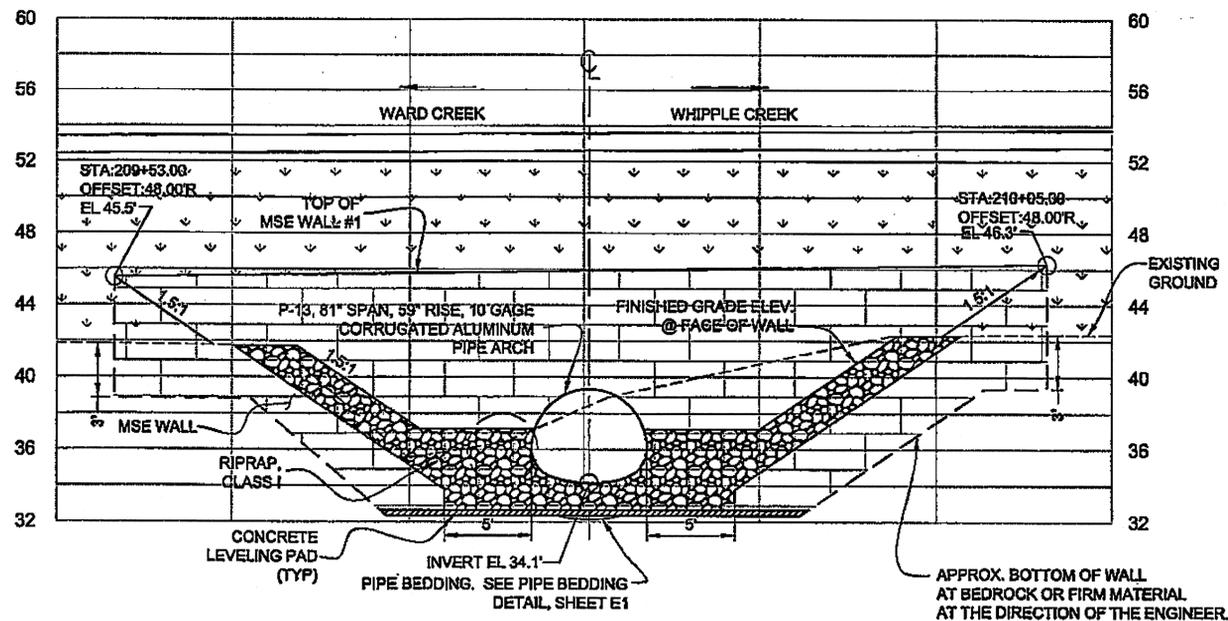
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



**MSE WALL #1 PLAN VIEW**

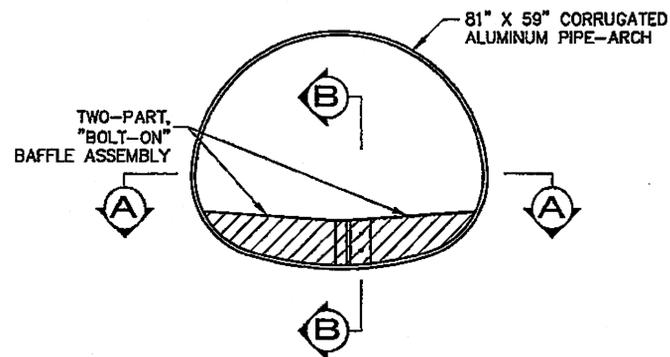
**MSE WALL NOTES:**

1. CONSTRUCT CONCRETE LEVELING PAD FOR MSE WALL FOUNDATION.
2. CONSTRUCT MSE WALL WITH NON-FERROUS SOIL REINFORCEMENT. PLACE FILTER FABRIC BEHIND WALL FACING TO ELEVATION 40.0'
3. EXTEND RIPRAP INLET STREAM-BANK LINING TO ROW.
4. TRIM PANELS OR BLOCKS PER MANUFACTURER'S RECOMMENDATIONS.

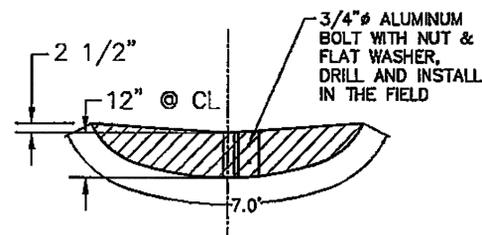


**MSE WALL #1 PROFILE VIEW**

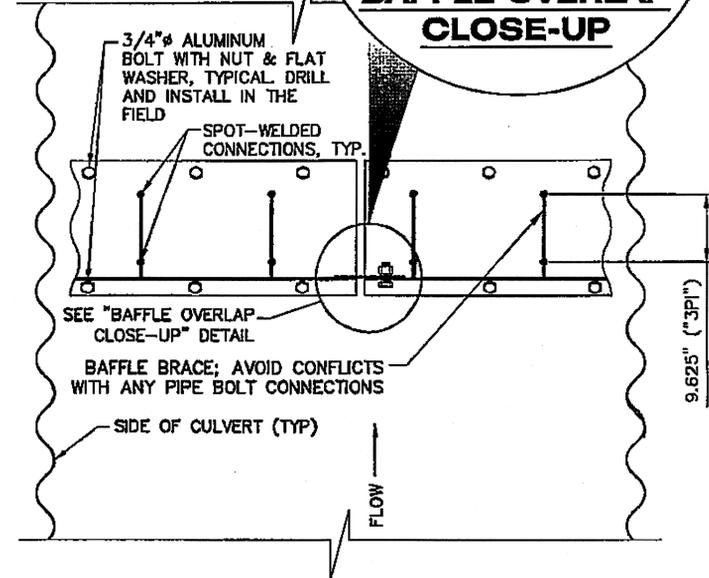
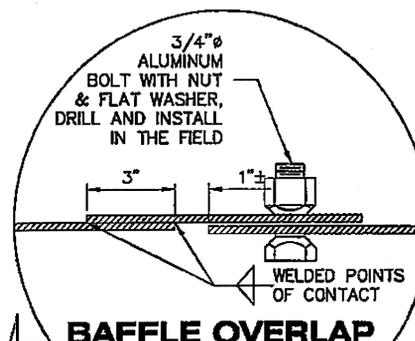
MSE WALL #1 = 550 SQ FT



**TWO-PIECE BAFFLE ASSEMBLY**



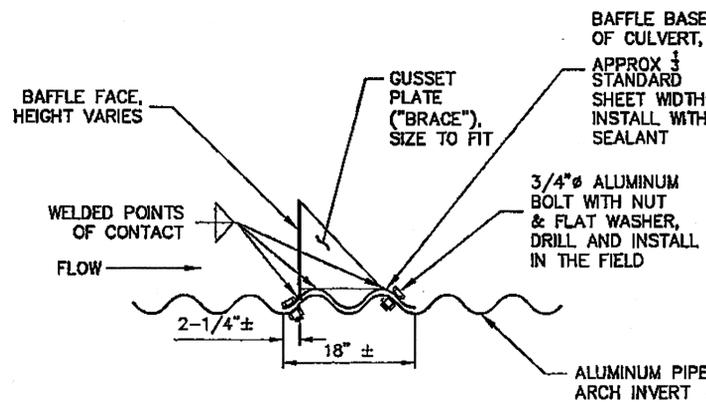
**BAFFLE DETAIL**



**BAFFLE SECTION A-A**

**BAFFLE NOTES:**

1. BAFFLE-PIPE INTERFACE SHALL BE WATER-TIGHT TO THE EXTENT PRACTICABLE. USE MASTIC/SEALANT AT CONNECTIONS THAT ARE COMPATIBLE (AND NON-CORROSIVE) TO THE CORRUGATED ALUMINUM PIPE ARCH AND APPURTENANT HARDWARE.



**BAFFLE SECTION B-B**

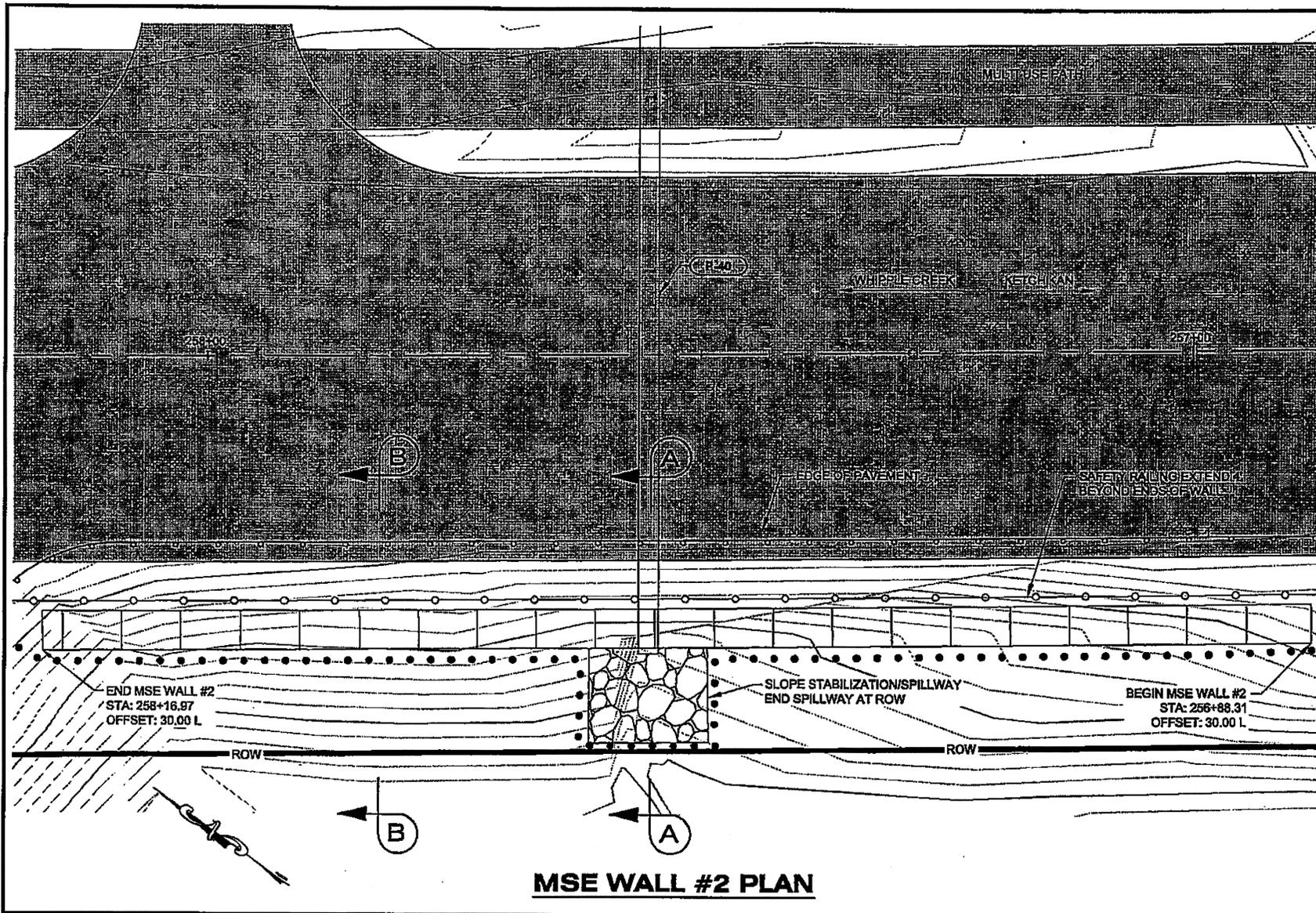
**BAFFLE NOTES:**

1. ALL BAFFLES AND BRACES SHALL BE MANUFACTURED FROM 1/4\"/>
- 2. EACH BAFFLE SHALL HAVE A MINIMUM OF 6 BRACES.
- 3. ALL DIMENSIONS ON THIS SHEET ARE NOMINAL- BAFFLES SHALL BE MANUFACTURED TO FIT PARTICULAR PIPE.

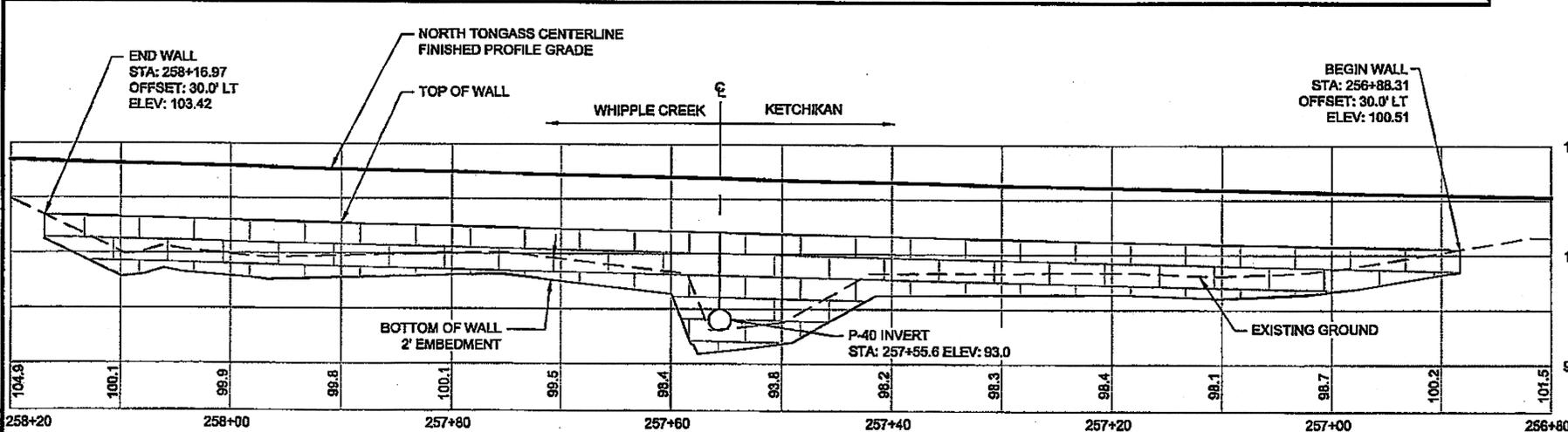
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed. Date: 1/15/13 PE: N2

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

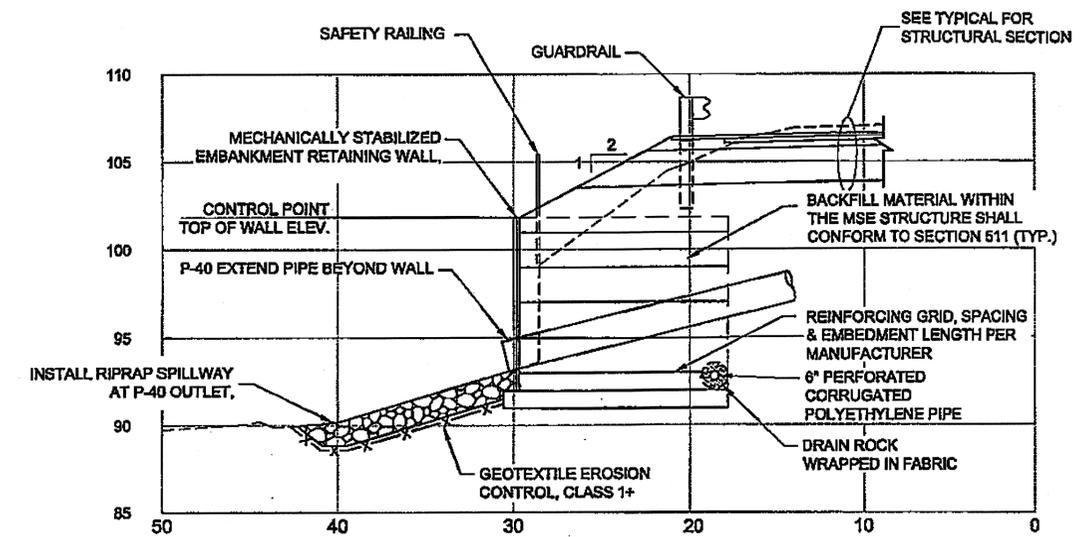
CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
DESIGNED BY: N. GEARY DRAWN BY: R. GRANTHAM		<b>KETCHIKAN - N. TONGASS HWY.          WARD COVE TO WHIPPLE CREEK          STAGE 2          TOTEM BIGHT TO WHIPPLE CREEK</b>	
PATH: Q:\KTN\57443\PLANS\SET1\67443_E5-E7.DWG TAB: E5 Wednesday, January 20, 2010 1:25:42 PM GRANHAM, RICK L. (DOT)		<b>MISCELLANEOUS          DETAILS</b>	
REVISIONS NO. DATE DESCRIPTION	PROJECT DESIGNATION NH-ARA-0920(25) - 67443	YEAR 2010	SHEET NO. E6
		TOTAL SHEETS 102	



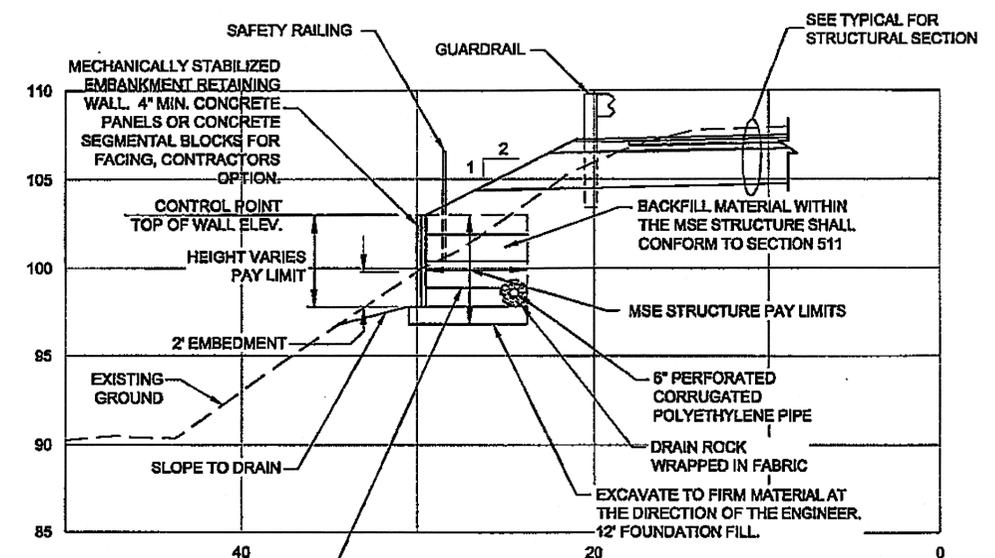
**MSE WALL #2 PLAN**



**MSE WALL #2 PROFILE**  
AREA= 680 SQFT



**MSE WALL #2**  
SECTION A - A



**MSE WALL #2**  
SECTION B - B

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *MD* Date: 1/15/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

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

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**MISCELLANEOUS DETAILS**

DATE: 1-22-10  
DARRYL G. LESTER  
REGISTERED PROFESSIONAL ENGINEER  
CE-11514

PATH: C:\CTM\67443\PLANSET\67443\_ES-E7.DWG  
TAB: E7 Wednesday, January 20, 2010 11:17:53 AM GRANTHAM, RICK L (DOT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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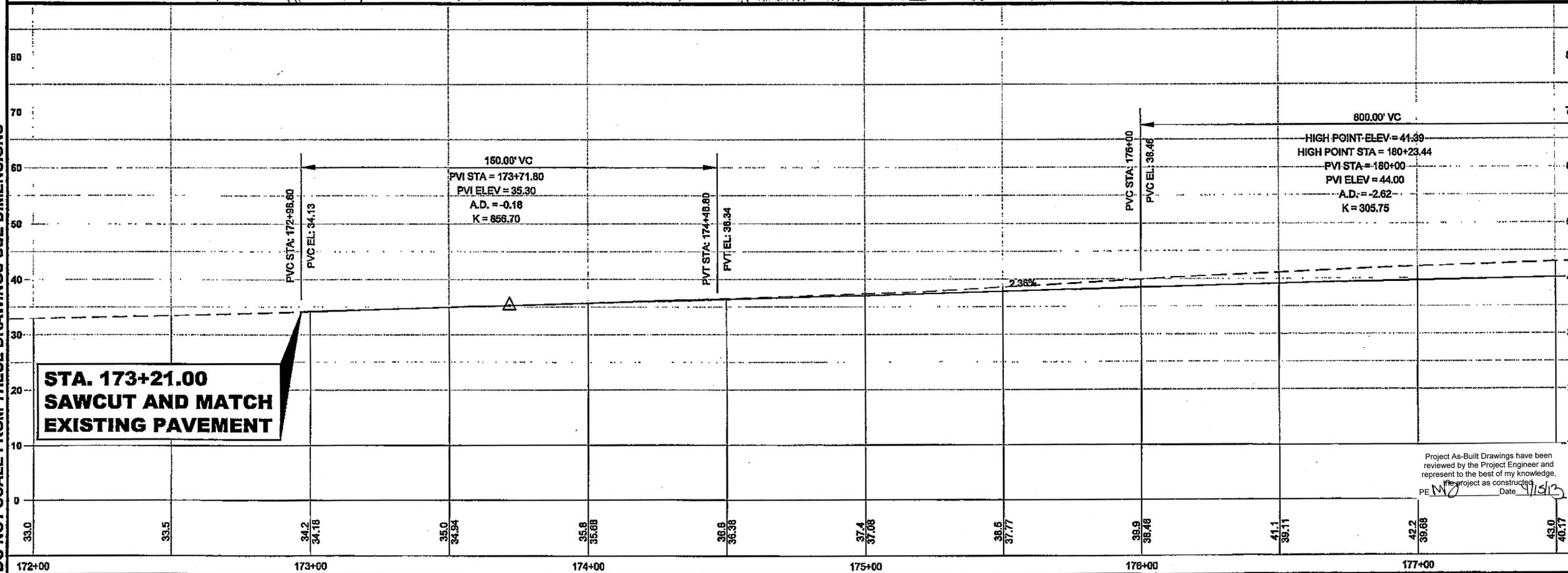
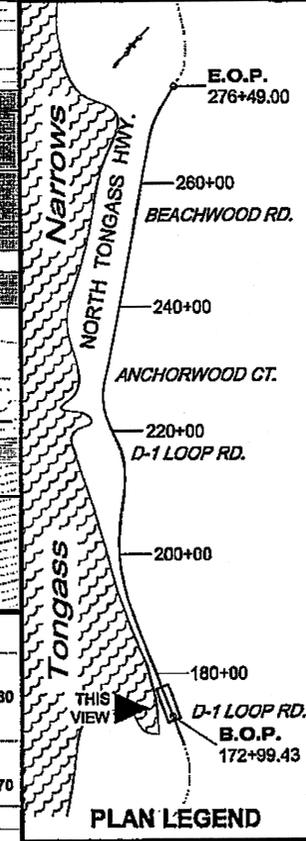
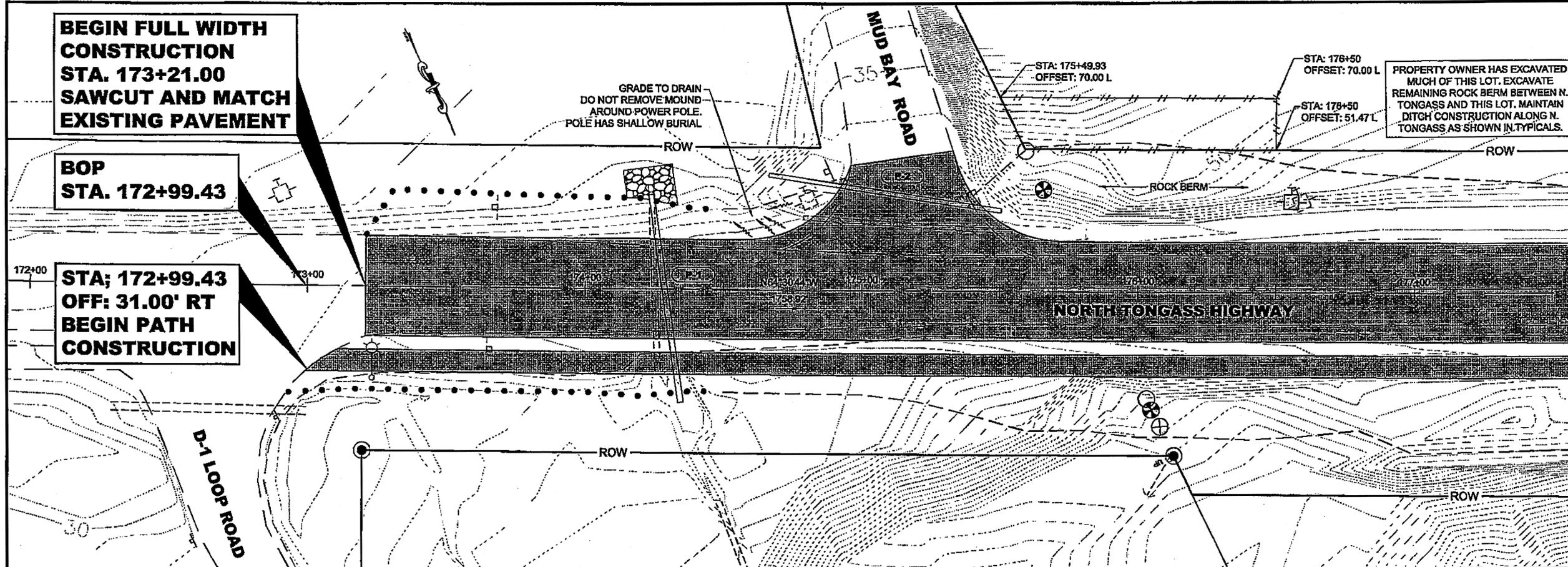
TAB: F1 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**PROJECT PLAN & PROFILE**

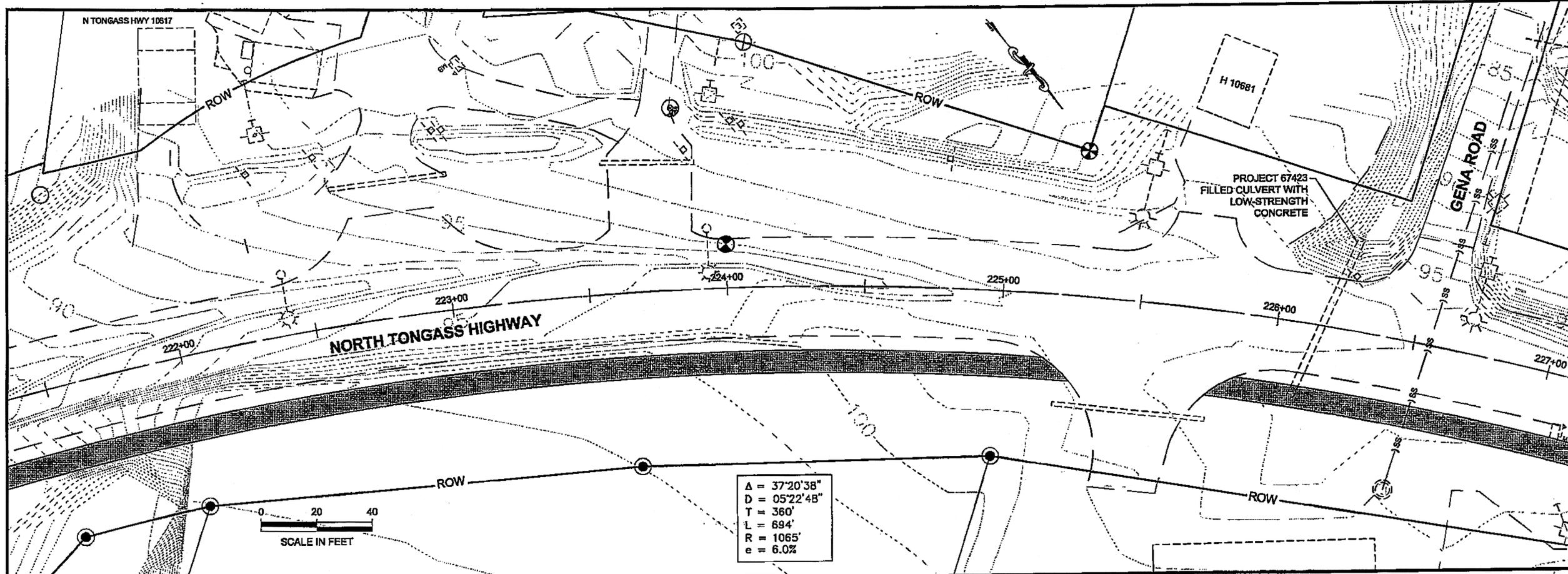
PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
F1	102

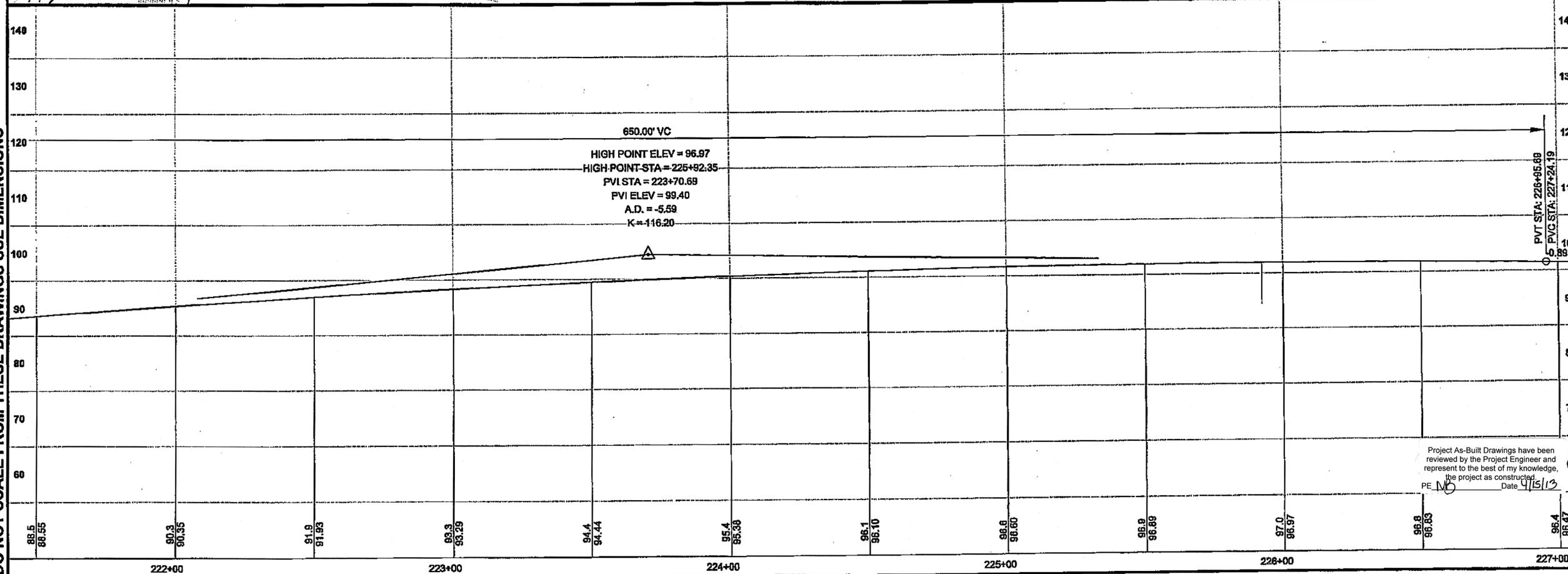
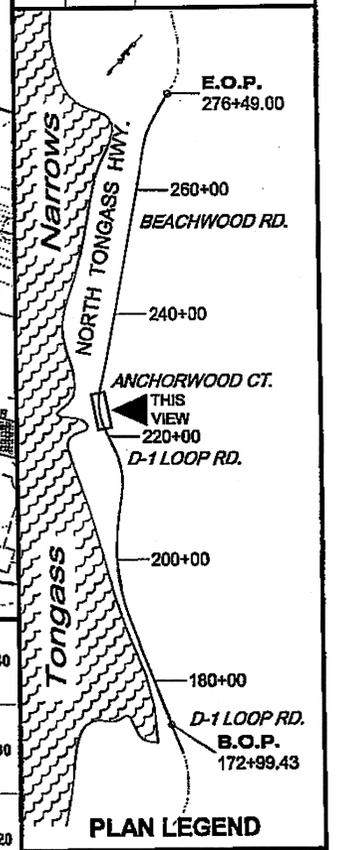
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: [Signature] Date: 1/13/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PAT: Q:\KTR\67443\PLANS\67443\_F1-F10\_P&P.DWG  
 TAB: F10 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



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CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**PROJECT PLAN & PROFILE**

PROJECT DESIGNATION	
NH-ARA-0920(25) - 67443	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F10	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *ML* Date: 4/15/13

$\Delta = 37^{\circ}20'38''$   
 $D = 05^{\circ}22'48''$   
 $T = 380'$   
 $L = 694'$   
 $R = 1065'$   
 $e = 6.0\%$

**RESUME FULL WIDTH  
 CONSTRUCTION  
 STA. 231+16.00  
 SAWCUT AND MATCH  
 EXISTING PAVEMENT**

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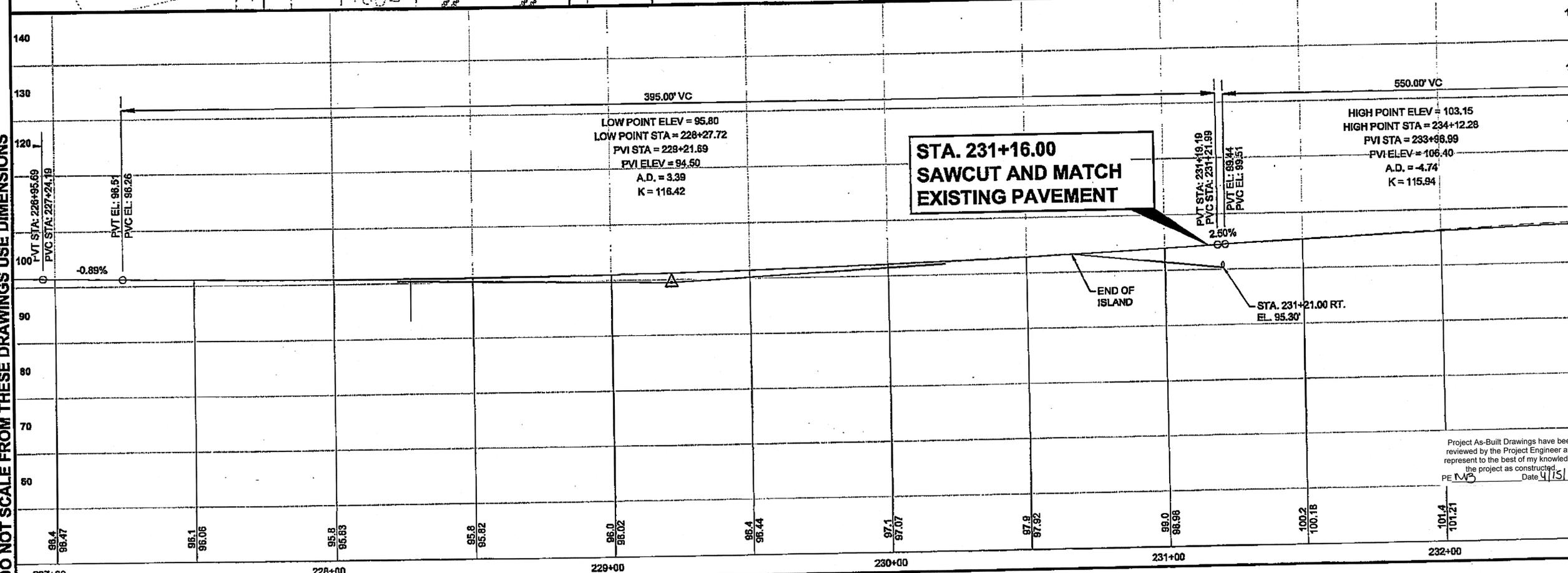
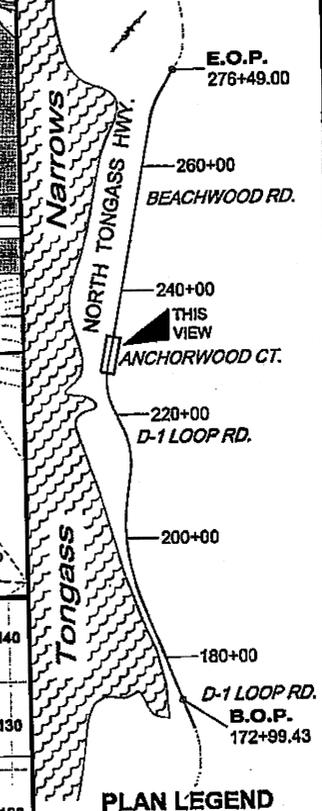
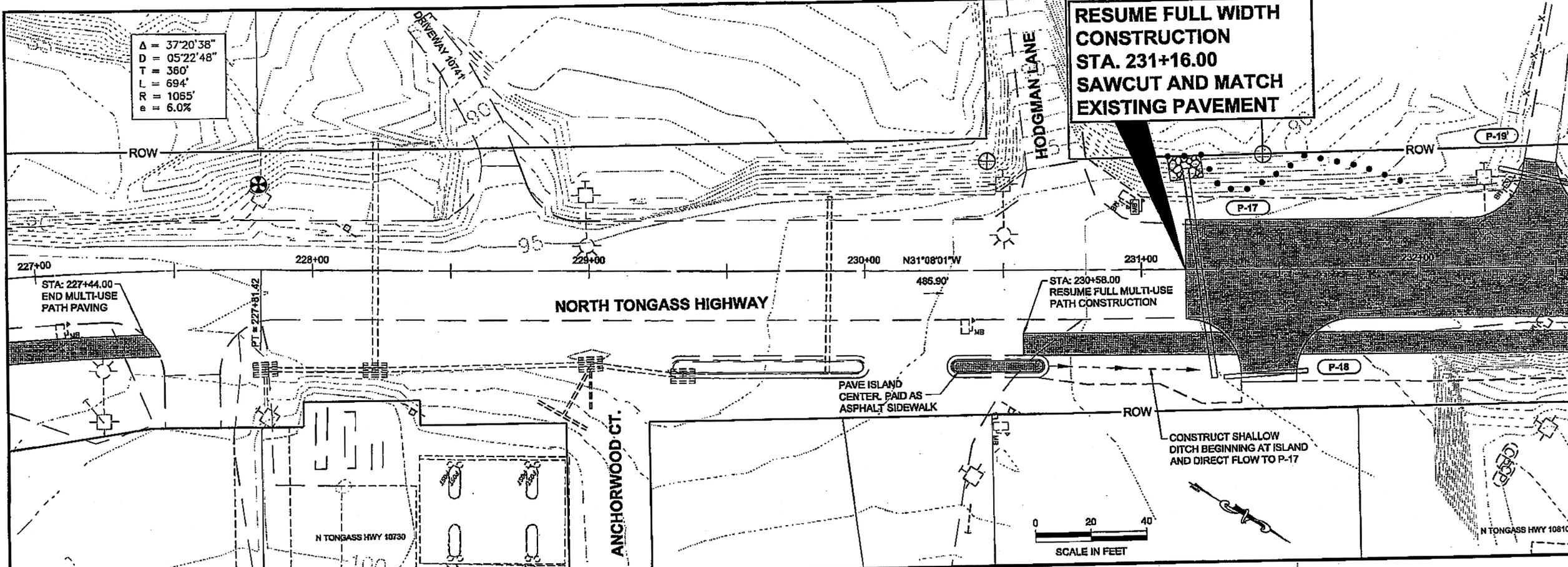
TAB: F11 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



**STA. 231+16.00  
 SAWCUT AND MATCH  
 EXISTING PAVEMENT**

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**PROJECT  
 PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

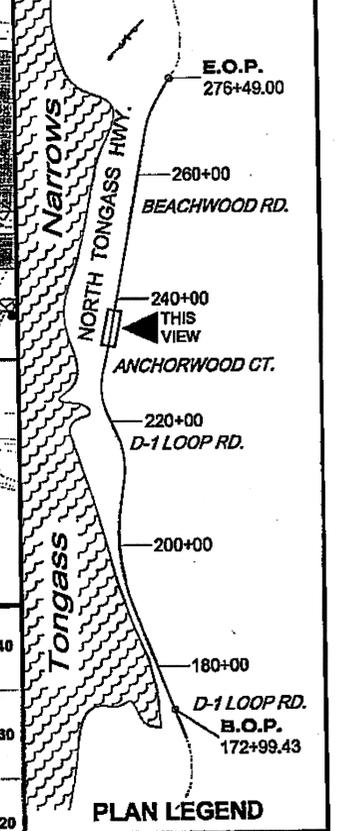
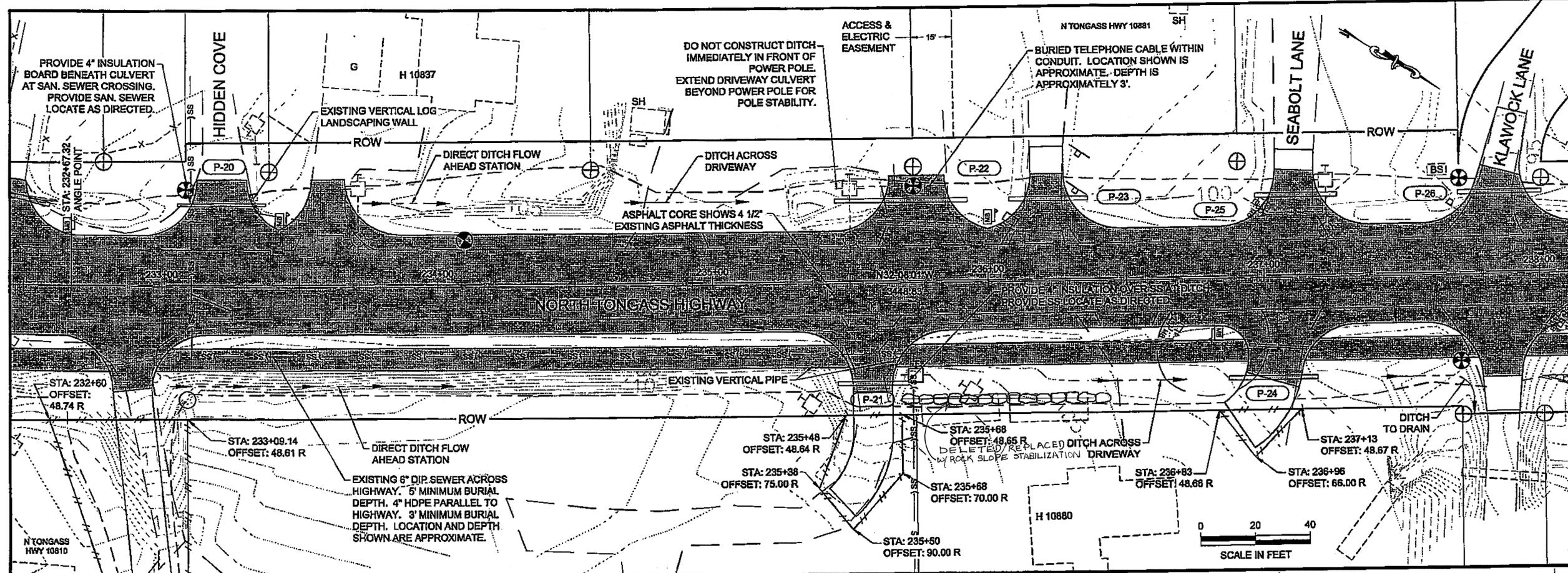
STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
F11	102

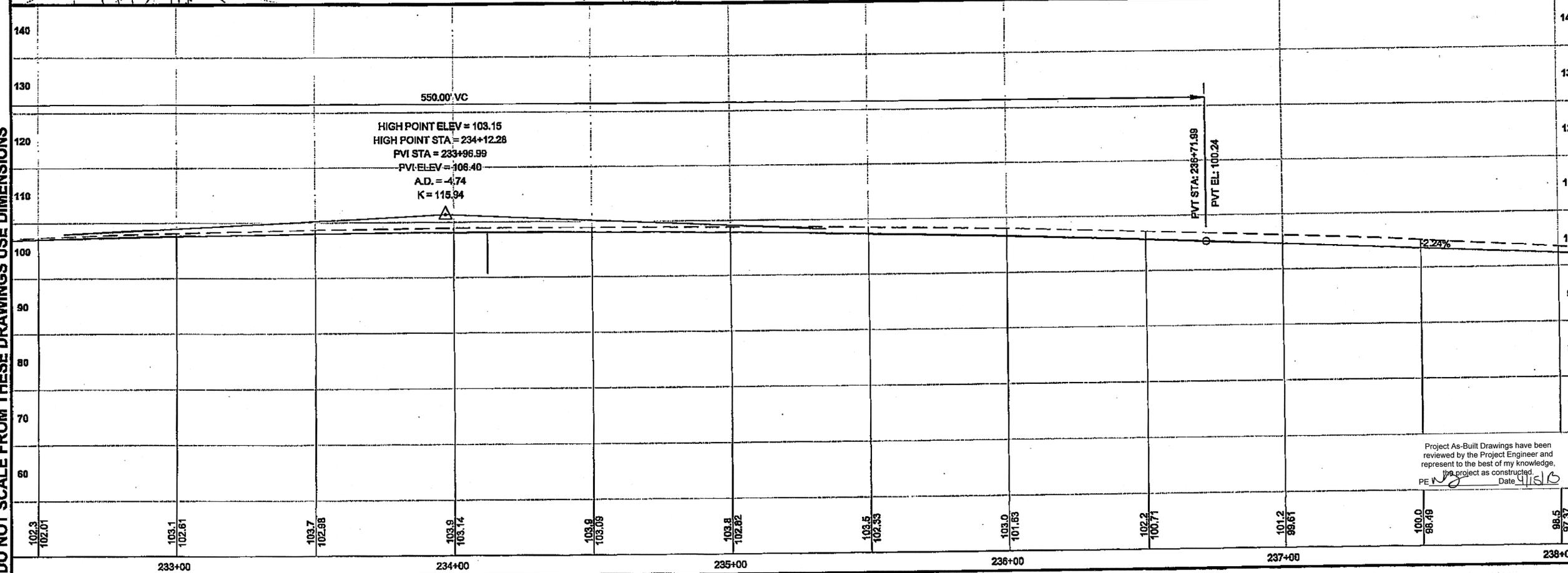
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed. Date 4/15/13  
 PE MVS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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 TAB: F12 GRANTHAM, RUCK L (DOT)  
 APPENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  
 No. DATE DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

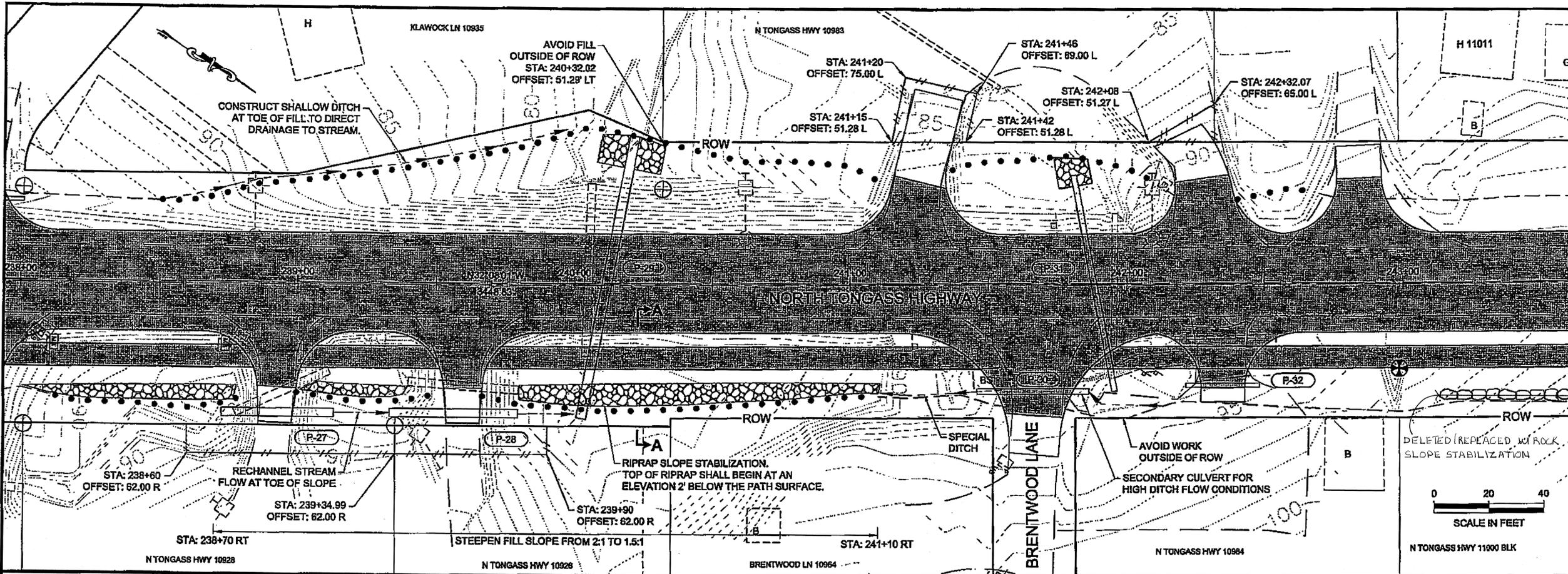
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**PROJECT  
 PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

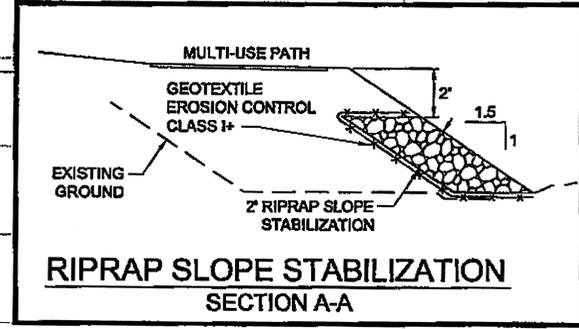
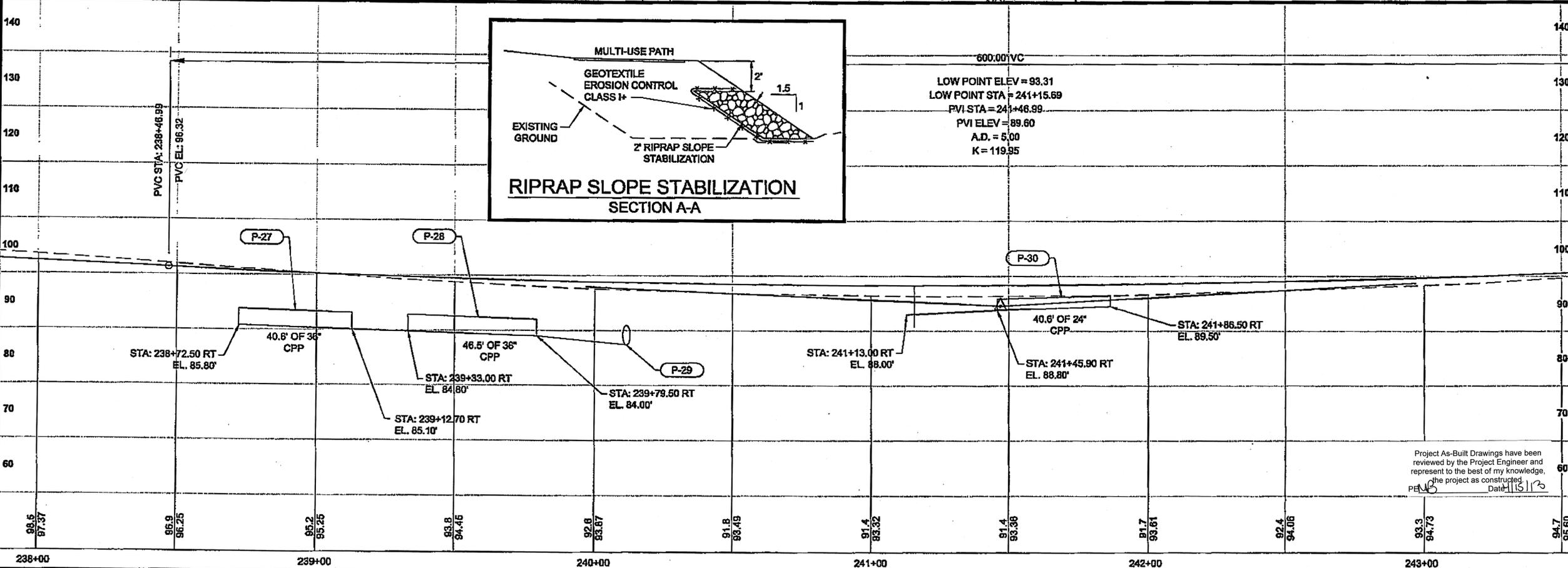
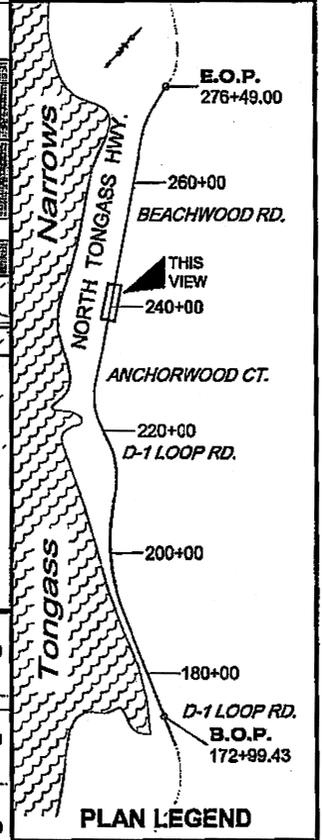
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<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>F12</b>	<b>102</b>

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/15/10



PATH: G:\KTN167443\PLANS\SET167443\_F1-F19\_P&P.DWG  
 TAR: F13 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION



600.00' VC  
 LOW POINT ELEV = 93.31  
 LOW POINT STA = 241+15.69  
 PVI STA = 241+46.99  
 PVI ELEV = 99.60  
 A.D. = 5.00  
 K = 119.95

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. HOWARD

DESIGNED BY: D. LESTER, J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

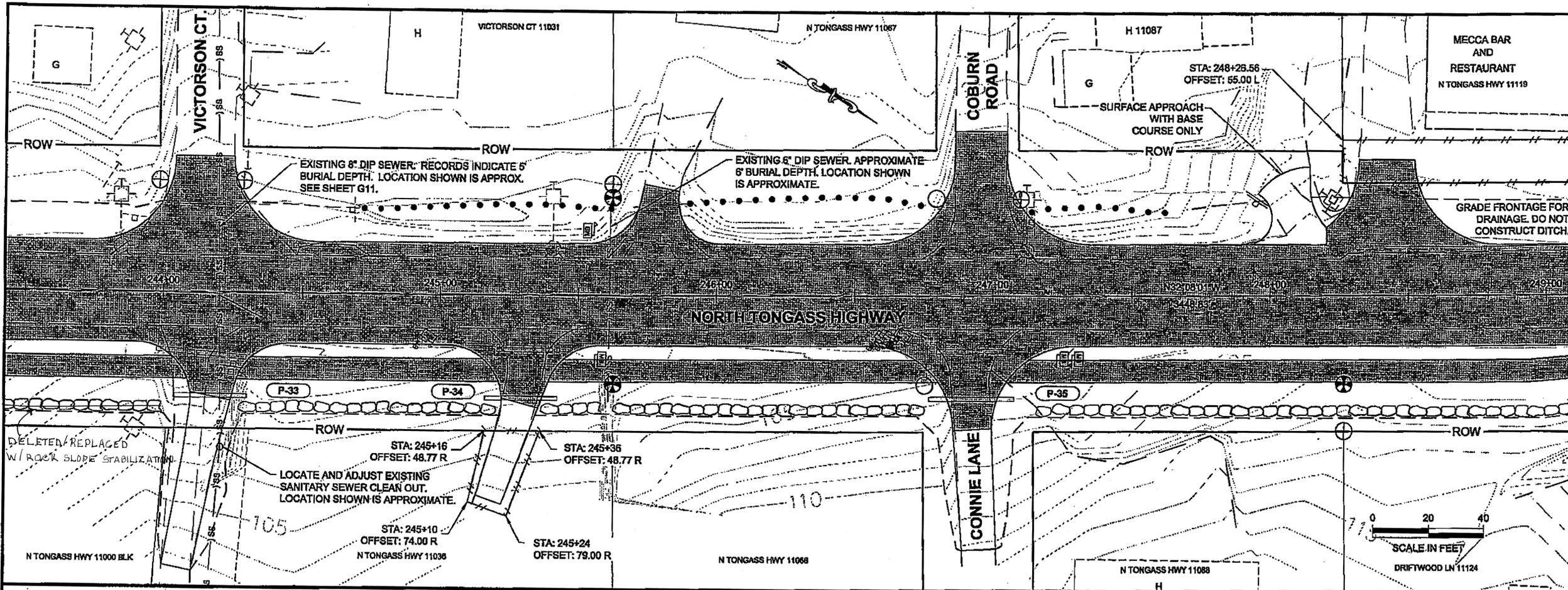
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**PROJECT  
 PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

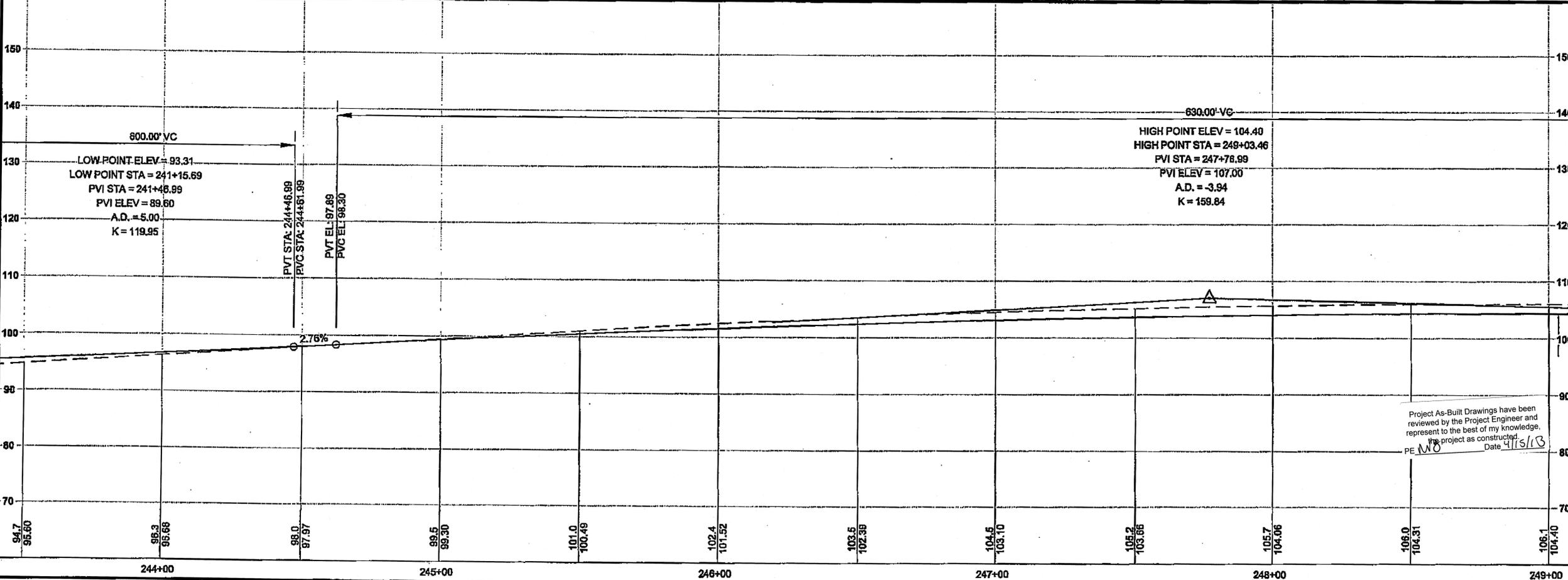
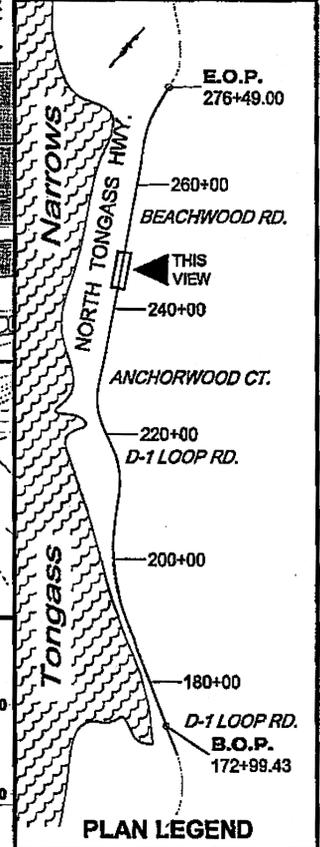
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F13	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Date: 11/13/13



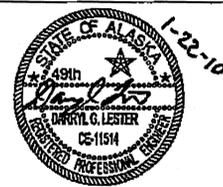
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 TAB: F14 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD  
 DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM



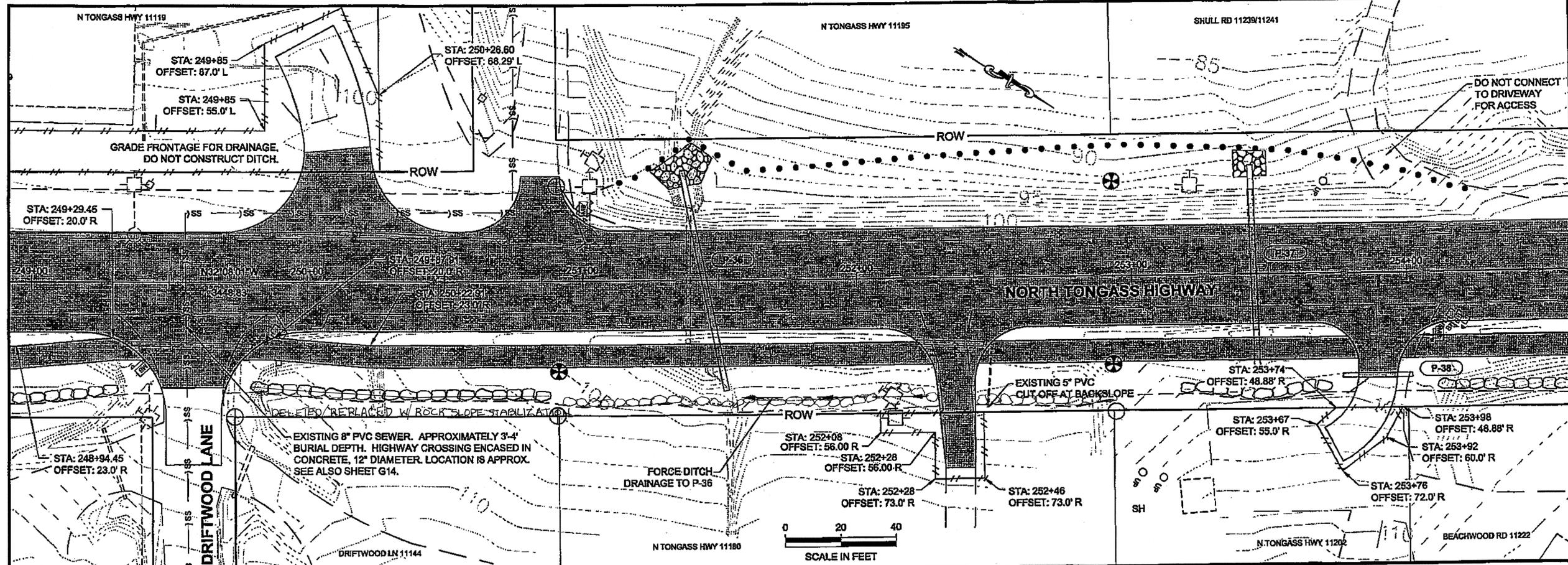
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**PROJECT PLAN & PROFILE**

PROJECT DESIGNATION  
 NH-ARA-0920(25) - 67443

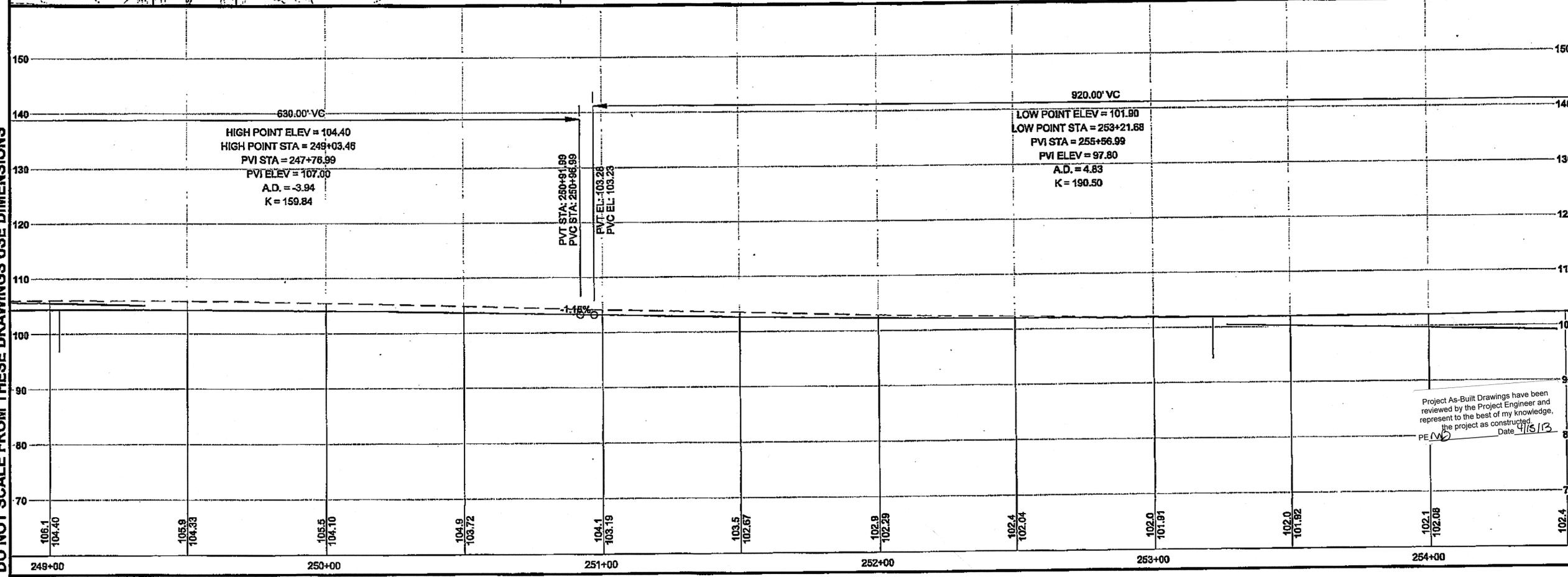
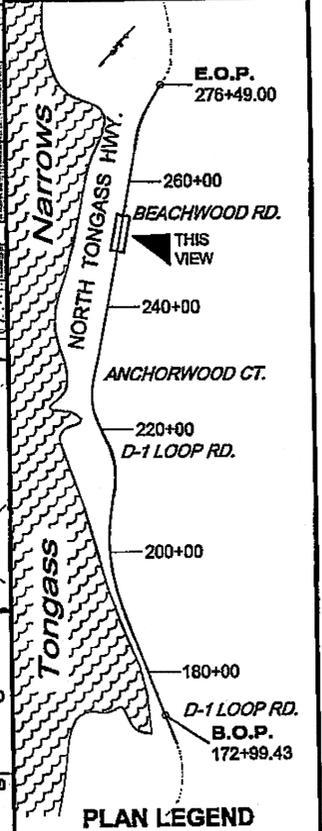
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F14	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE WJO Date 4/15/13



PATH: Q:\KTN67443\PLANSET\67443\_F1-F19\_P&P.DWG  
 TAD: F15 GRANTHAM, RECK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS

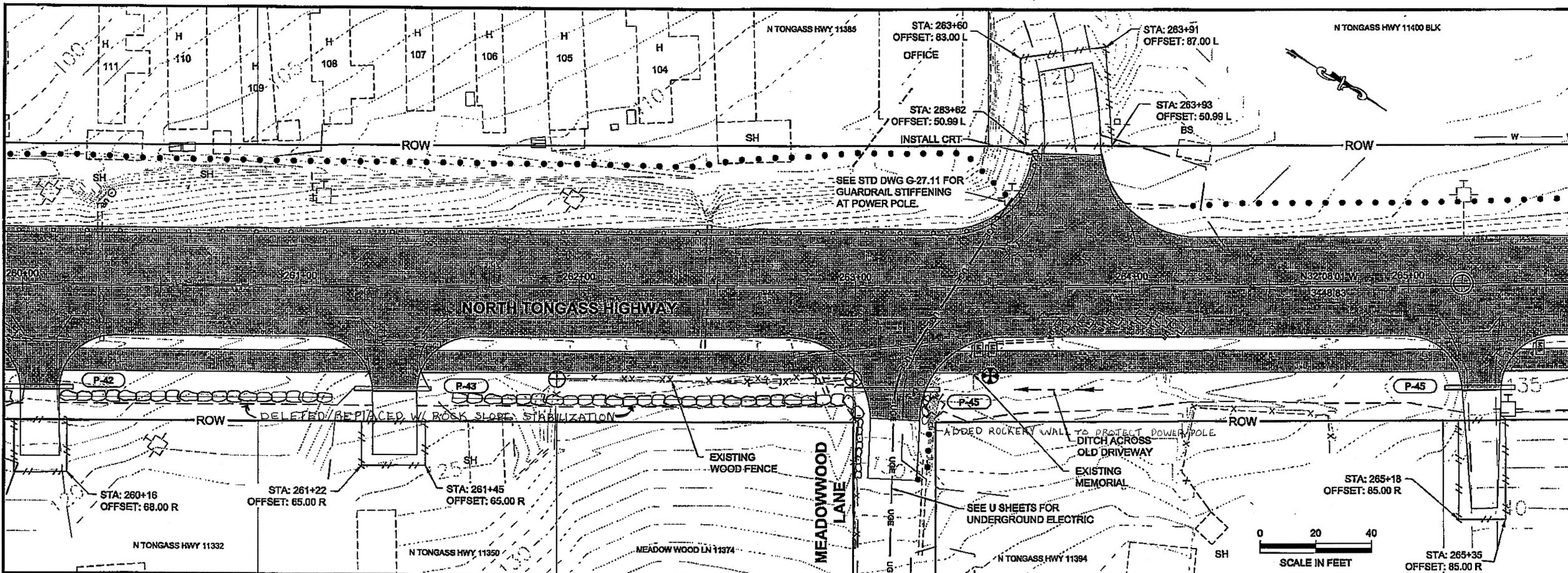
No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

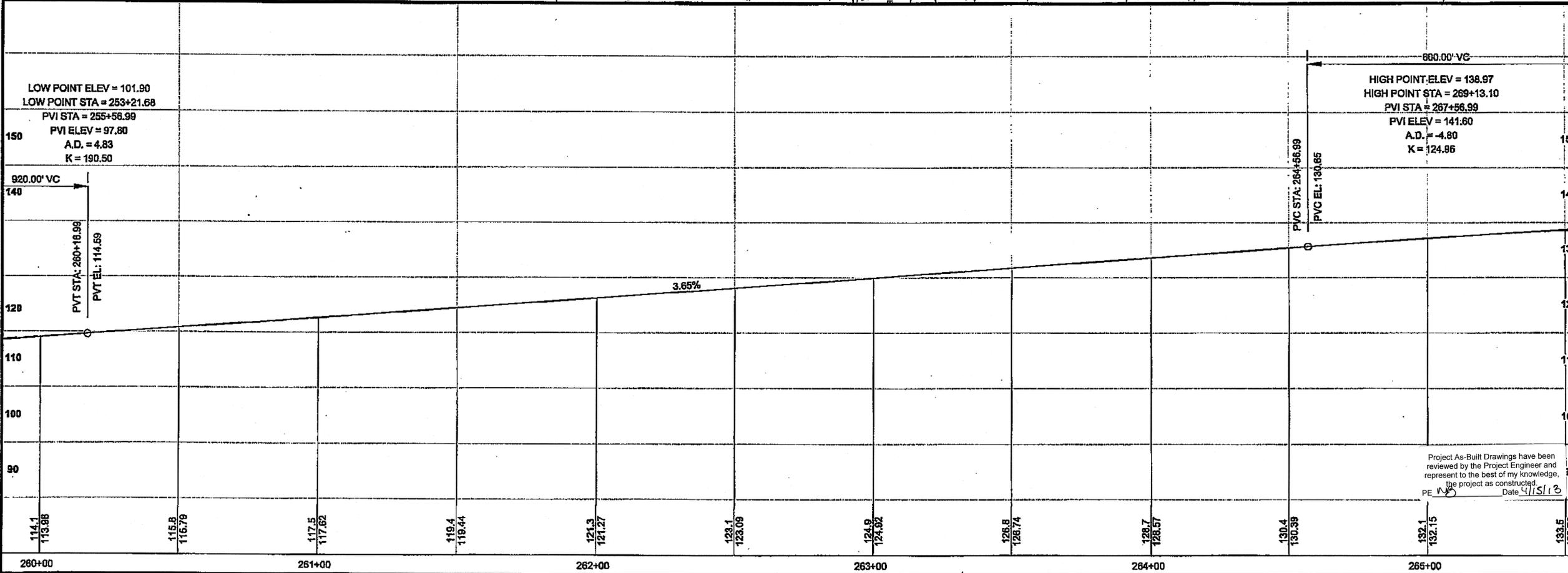
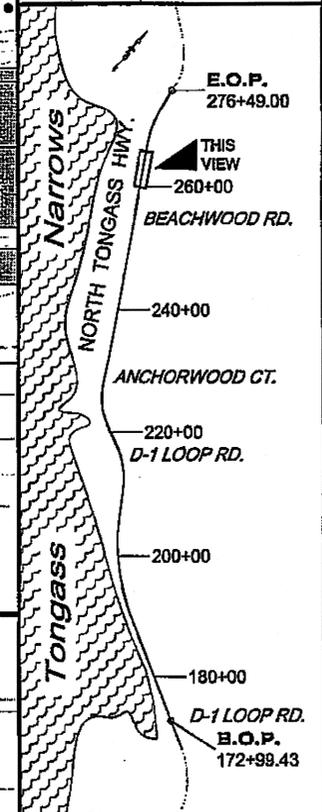
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE (M) Date 4/18/13





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 TAB: F17 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

**PLAN LEGEND**

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

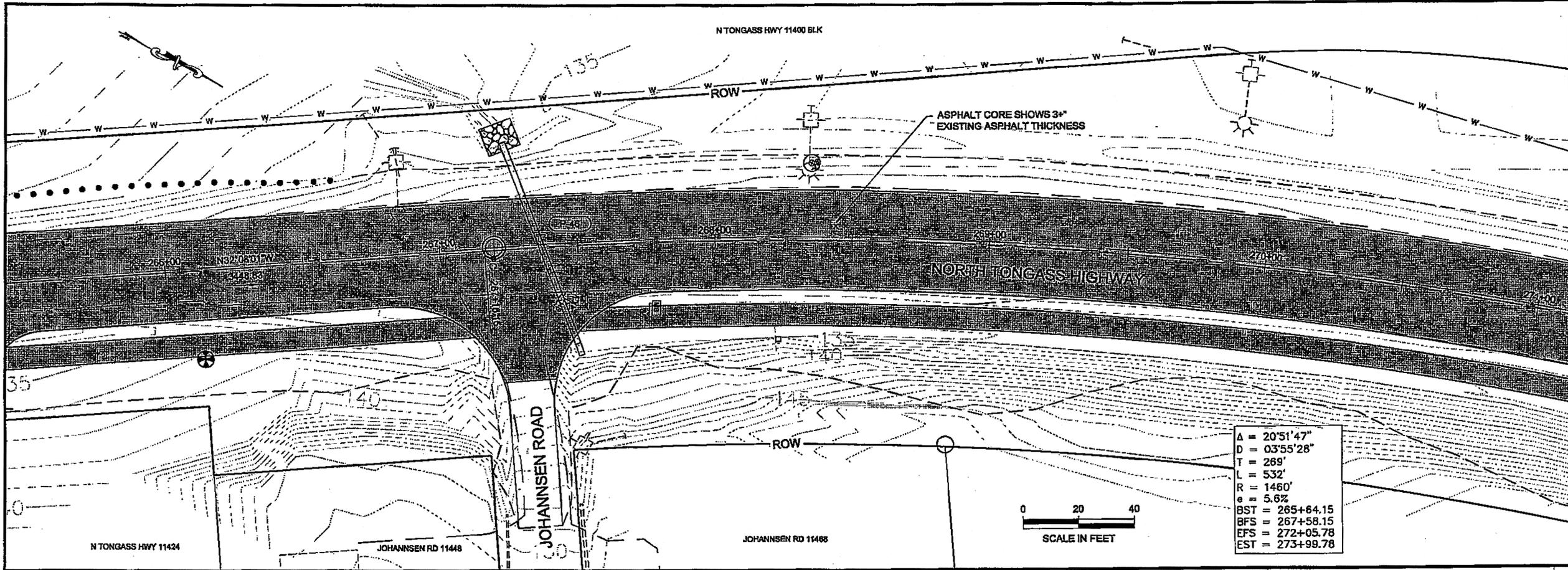
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**PROJECT  
 PLAN & PROFILE**

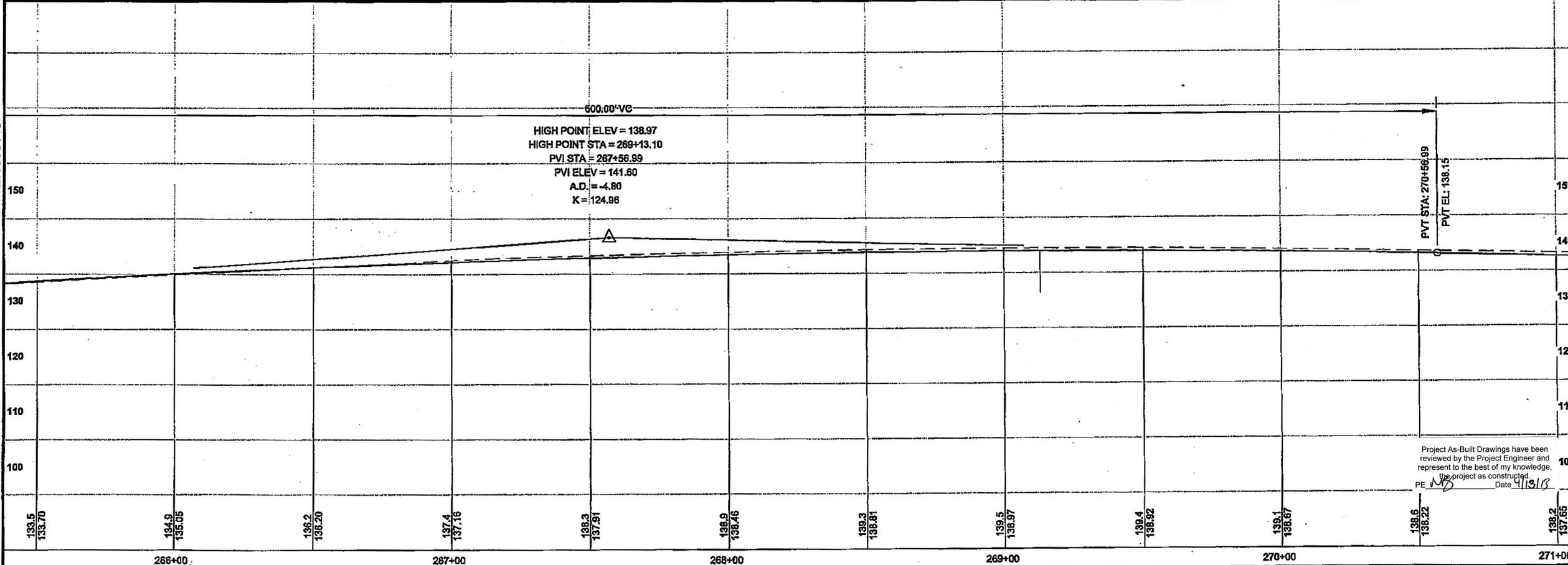
PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F17	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/15/13



$\Delta = 20^{\circ}51'47''$   
 $D = 03^{\circ}55'28''$   
 $T = 269'$   
 $L = 532'$   
 $R = 1460'$   
 $e = 5.6\%$   
 $BST = 265+64.15$   
 $BFS = 267+58.15$   
 $EFS = 272+05.78$   
 $EST = 273+99.78$



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: G:\KTM\67443\PLANS\ET167443\_P1-F19\_P&P.DWG

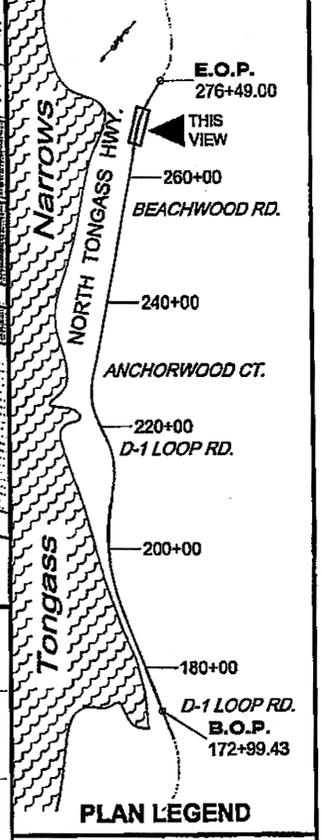
TAB: F18 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

1-22-10

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

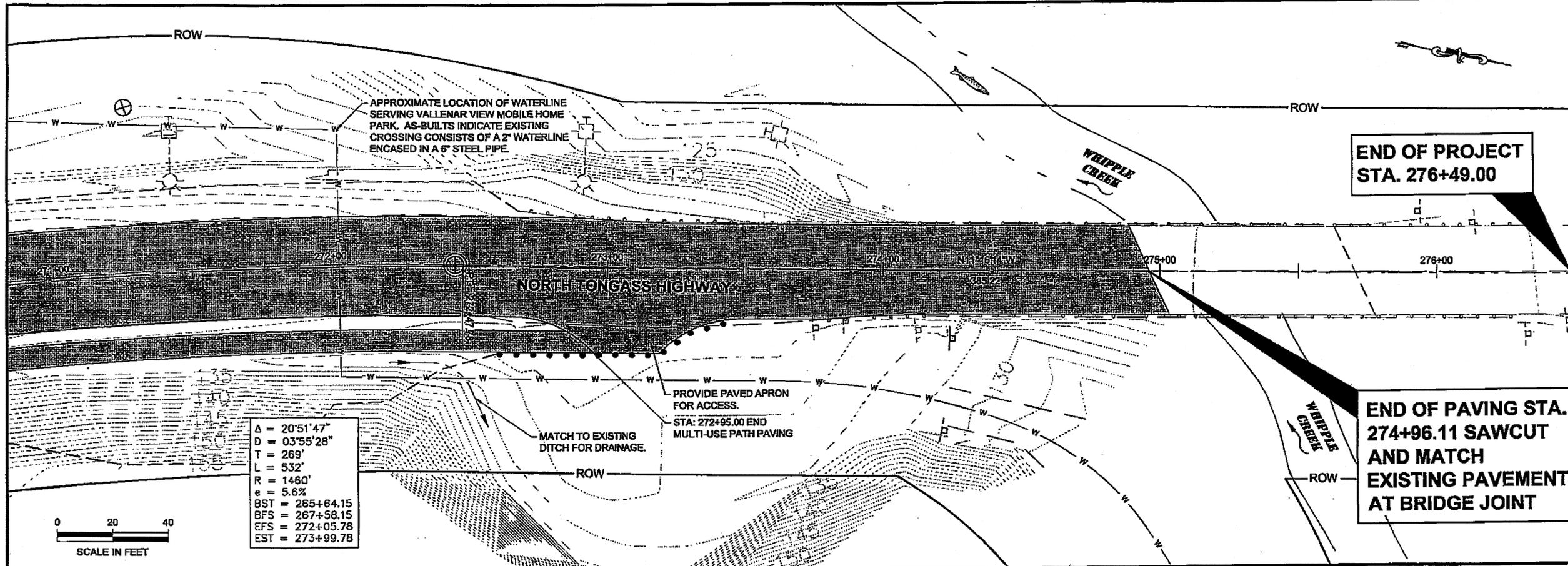
KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**PROJECT PLAN & PROFILE**

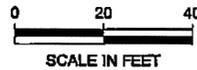
PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F18	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/15/18

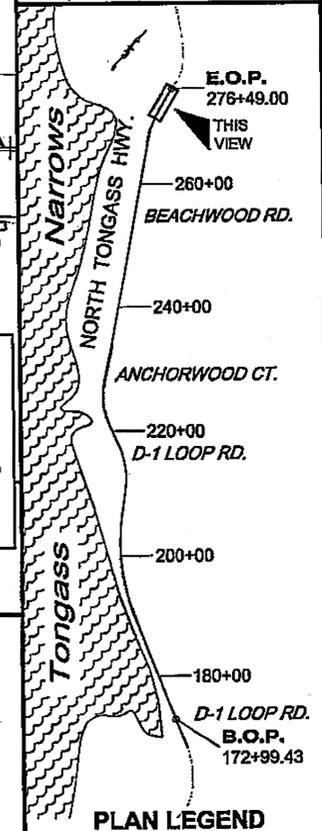


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 $D = 03^{\circ}55'28''$   
 $T = 269'$   
 $L = 532'$   
 $R = 1460'$   
 $e = 5.6\%$   
 $BST = 265+64.15$   
 $BFS = 267+58.15$   
 $EFS = 272+05.78$   
 $EST = 273+99.78$

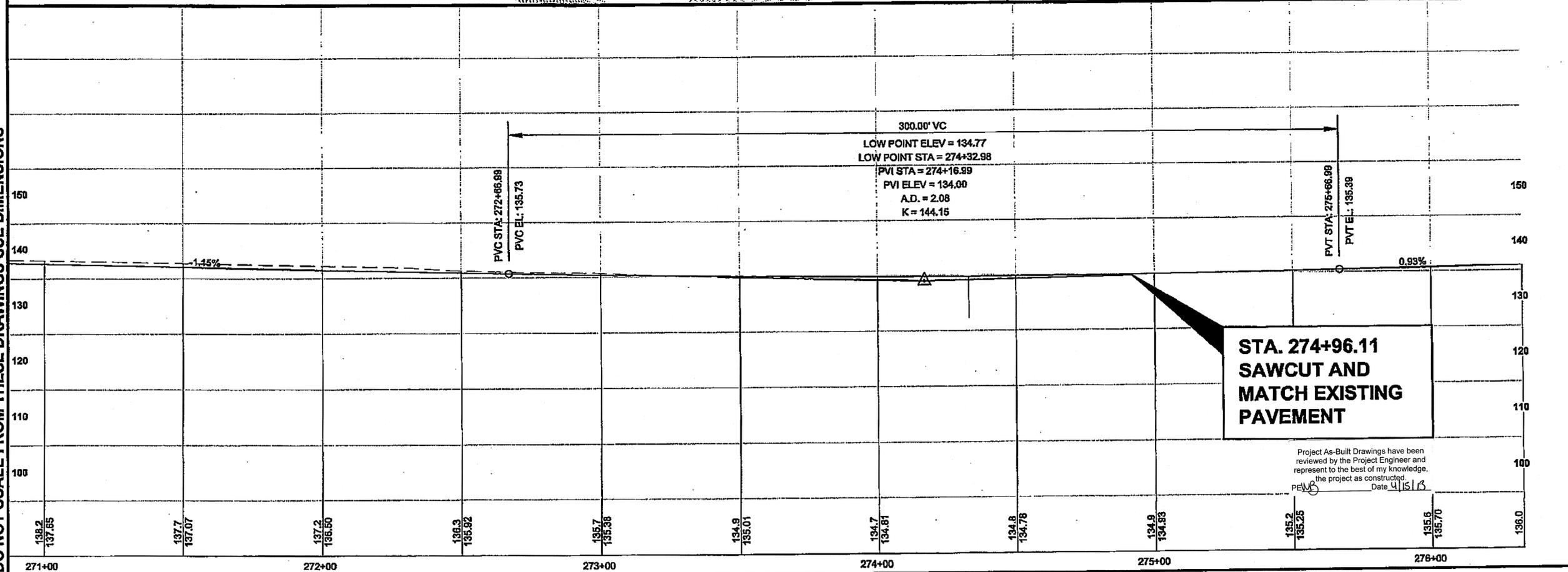


PATH: Q:\KT\187443\PLANSET\187443\_F1-F19\_P&P.DWG  
 TAB: F19 GRANHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



**STA. 274+96.11  
SAWCUT AND  
MATCH EXISTING  
PAVEMENT**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PEW Date 4/15/13

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

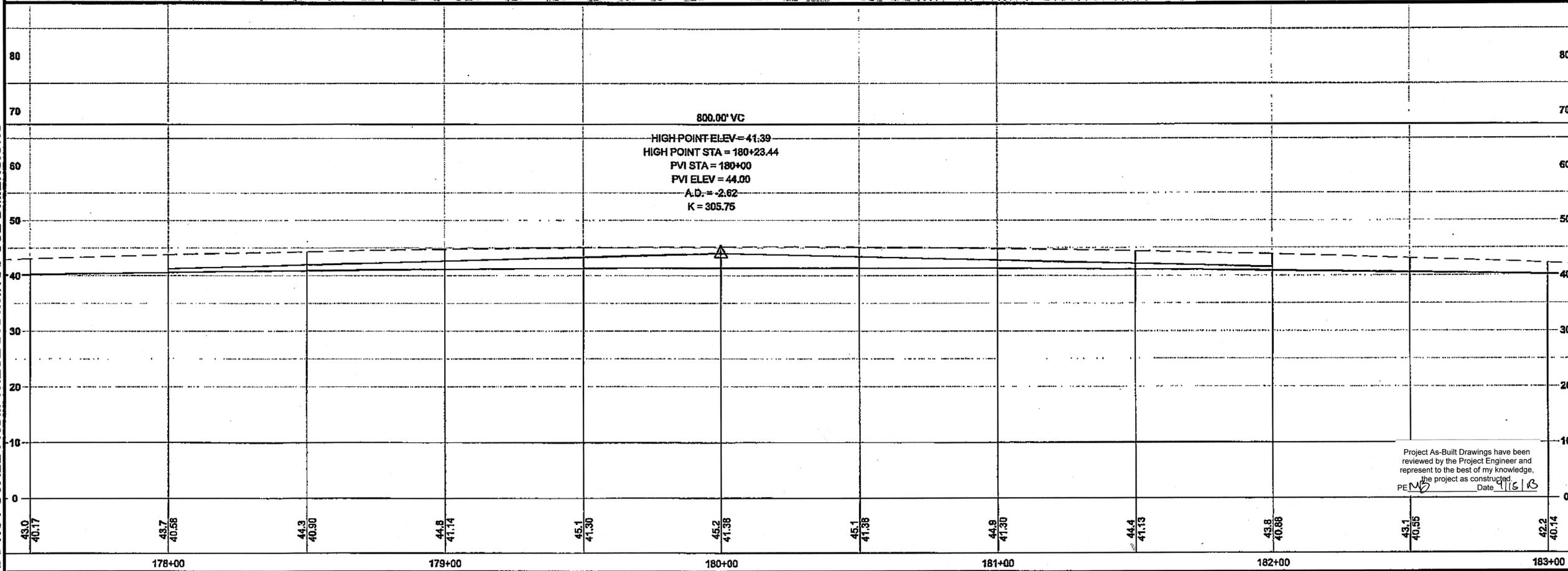
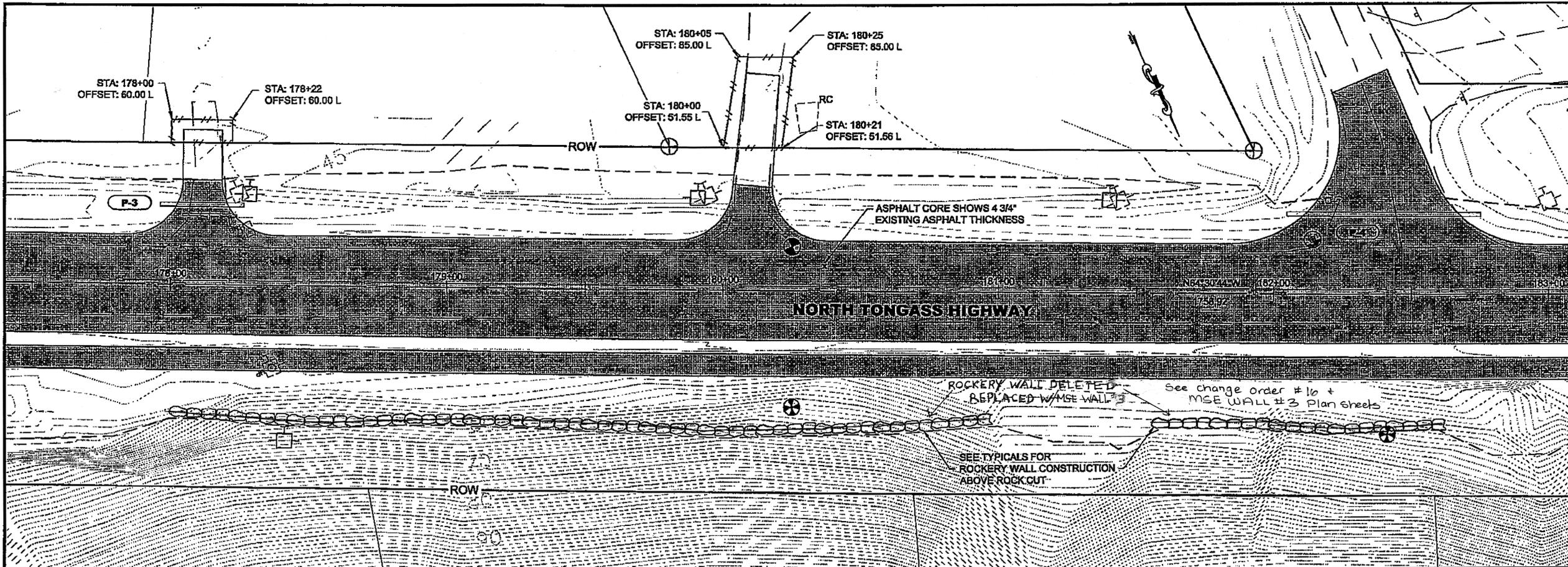
**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

**PROJECT  
PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

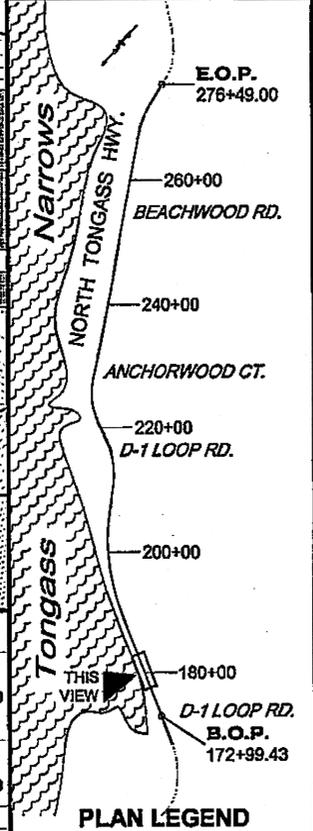
STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>F19</b>	<b>102</b>

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: Q:\KTN67443\PLANSET67443\_P1-P19\_P&P.DWG  
 TAB: F2 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

STATE OF ALASKA  
 49th  
 DARRIL G. LESTER  
 CE-11514  
 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

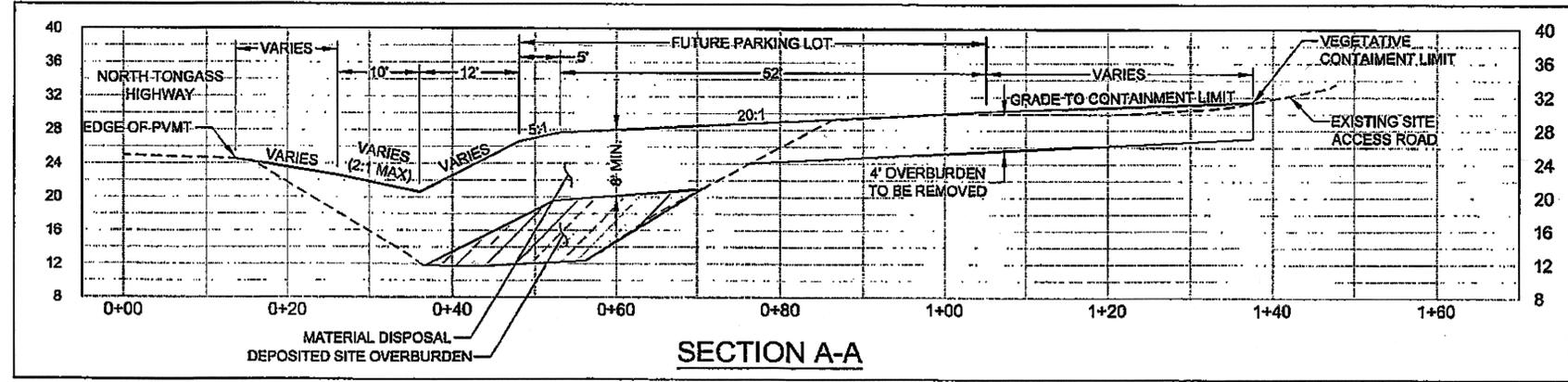
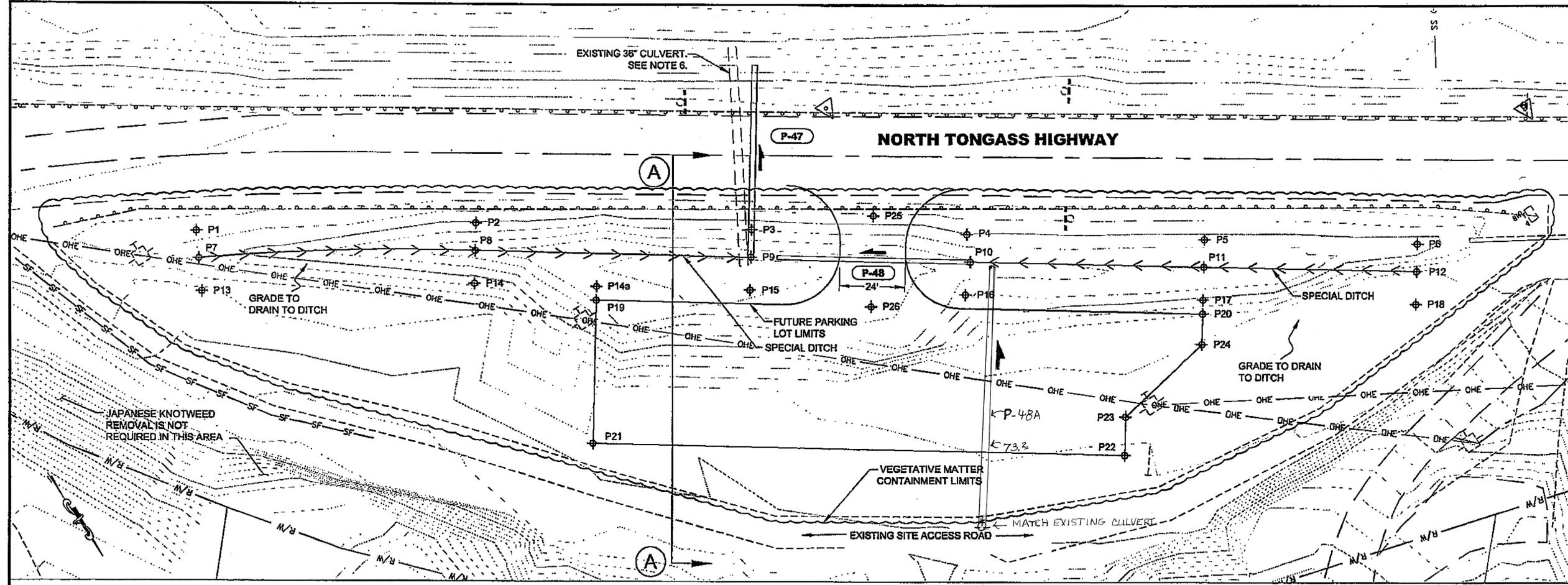
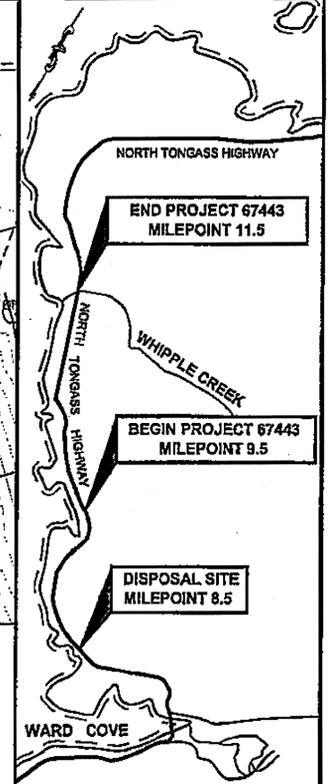
**PROJECT PLAN & PROFILE**

PROJECT DESIGNATION  
 NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F2	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Date: 1/15/10

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



POINT	NORTHING	EASTING	ELEVATION
P1	1,310,544.942	3,083,629.236	22.53'
P2	1,310,598.949	3,083,543.786	22.30'
P3	1,310,656.676	3,083,462.152	22.36'
P4	1,310,701.897	3,083,398.146	22.45'
P5	1,310,751.644	3,083,327.770	22.54'
P6	1,310,796.251	3,083,264.666	22.62'
P7	1,310,553.713	3,083,634.039	21.06'
P8	1,310,607.114	3,083,549.558	19.76'
P9	1,310,664.825	3,083,467.913	18.44'
P10	1,310,710.987	3,083,402.607	19.24'
P11	1,310,759.807	3,083,333.541	20.09'
P12	1,310,804.409	3,083,270.441	20.87'
P13	1,310,564.238	3,083,638.804	26.08'
P14	1,310,616.914	3,083,556.485	25.85'
P14a	1,310,642.619	3,083,520.117	26.01'
P15	1,310,674.641	3,083,474.851	25.95'
P16	1,310,719.920	3,083,410.759	26.00'
P17	1,310,769.607	3,083,340.467	26.09'
P18	1,310,814.212	3,083,277.370	26.18'
P19	1,310,646.693	3,083,523.017	27.21'
P20	1,310,773.680	3,083,343.367	27.29'
P21	1,310,689.210	3,083,553.050	29.91'
P22	1,310,800.568	3,083,395.417	29.97'
P23	1,310,789.137	3,083,387.337	29.27'
P24	1,310,782.674	3,083,349.704	27.95'
P25	1,310,677.494	3,083,422.308	24.30'
P26	1,310,704.440	3,083,441.356	27.01'

- NOTES**
- PREPARE SITE PER SECTION 203 OF THE SPECIAL PROVISIONS.
  - THE SITE IS OVERGROWN WITH KNOTWEED. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SPREADING THE KNOTWEED OUTSIDE THE SITE. PROVIDE SILT FENCE OR ANOTHER PROTECTIVE BARRIER ALONG THE OUTSIDE EDGE OF THE SITE ACCESS ROAD TO PREVENT CONTACT BETWEEN THE KNOTWEED AND VEHICLES.
  - INSTALL PIPES P-47 AND P-48 AS SHOWN IN THE CULVERT INSTALLATION SUMMARY.
  - CONSTRUCT SPECIAL DITCH GRADE AS SHOWN.
  - SITE DRIVEWAY SHALL BE 24' WIDE WITH 20' RADII. DRIVEWAY FORESLOPE SHALL BE 4:1.
  - THE EXISTING 36" CROSS CULVERT IS TO BE ABANDONED AND FILLED. THE APPROXIMATE LOCATION OF THE CULVERT IS SHOWN, AND BOTH ENDS OF THE CULVERT ARE BURIED. EXCAVATE MATERIAL AS REQUIRED TO EXPOSE THE ENDS OF THE CULVERT. FILL THE CULVERT PER SECTION 202 OF THE SPECIAL PROVISIONS. AFTER THE CULVERT HAS BEEN FILLED, REBURY THE ENDS OF THE CULVERT IN A MANNER ACCEPTABLE TO THE ENGINEER.
  - PAID FOR UNDER ITEM 203(22) SITE GRADING.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Date: 4/16/12  
 PE: [Signature]

**PLAN LEGEND**

CHECKED BY: C. HOWARD

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

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

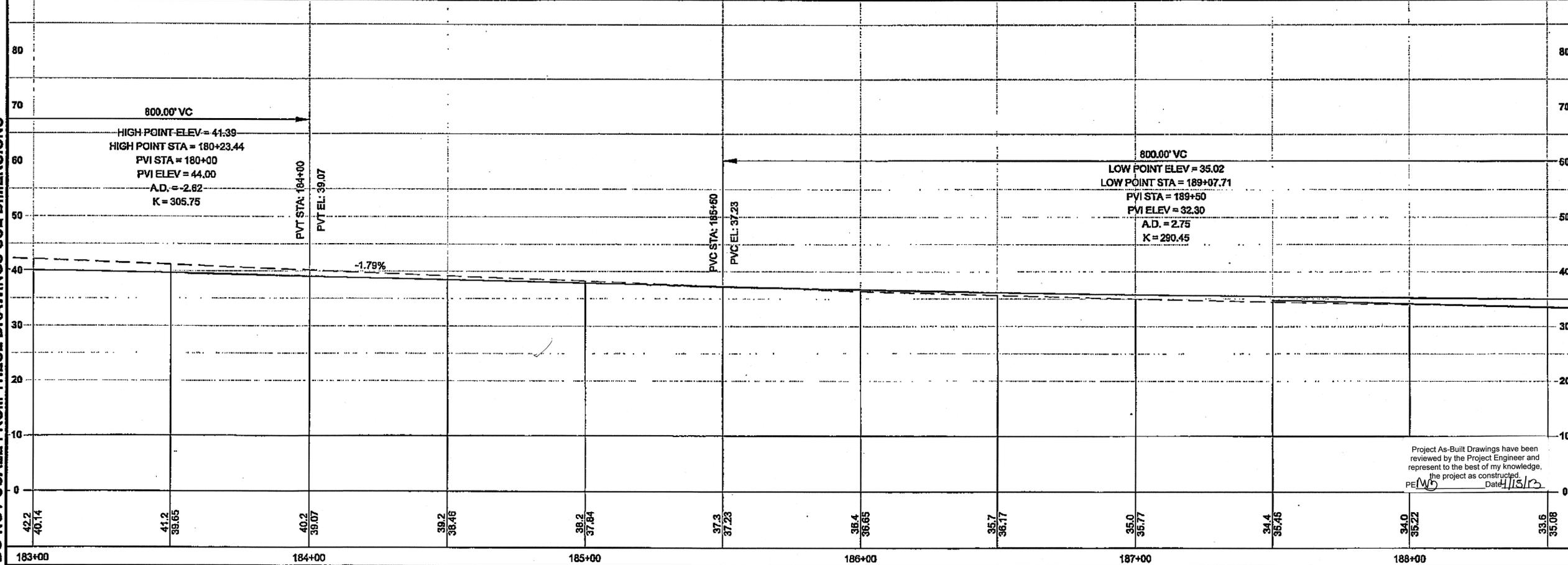
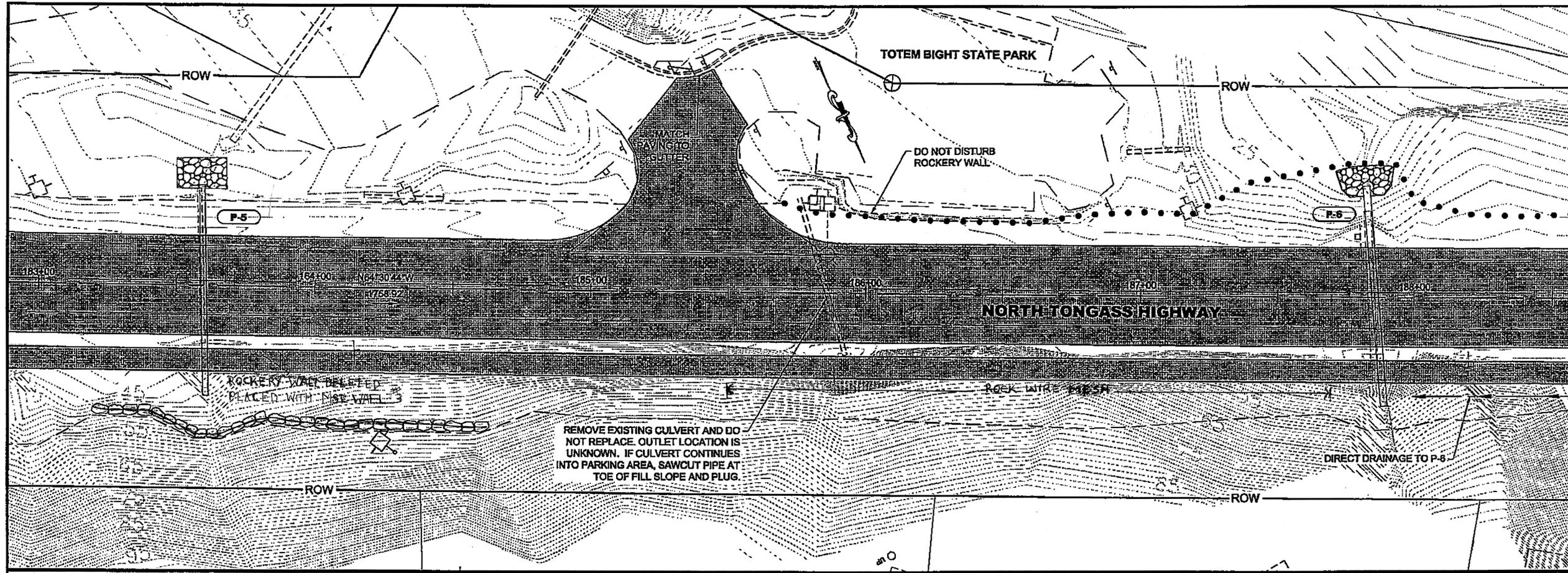
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**8.5 MILE  
 DISPOSAL SITE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F20	102

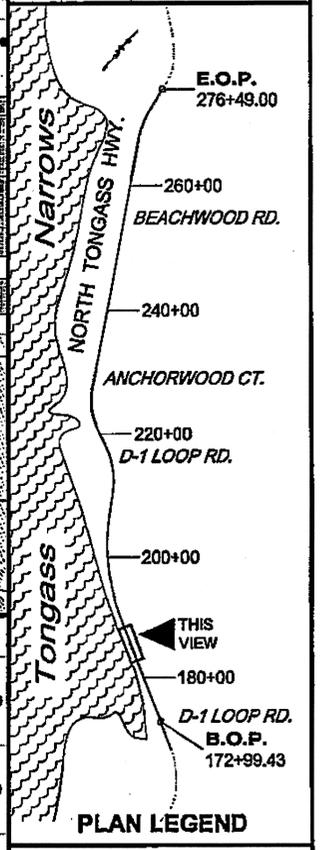
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PART: Q:\ICTM67443\PLANSET\67443\_F1-F19\_P&P.DWG  
 TAB: F3 GRANHAM, RICK L (DOT)  
 APPENDIX NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  

No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

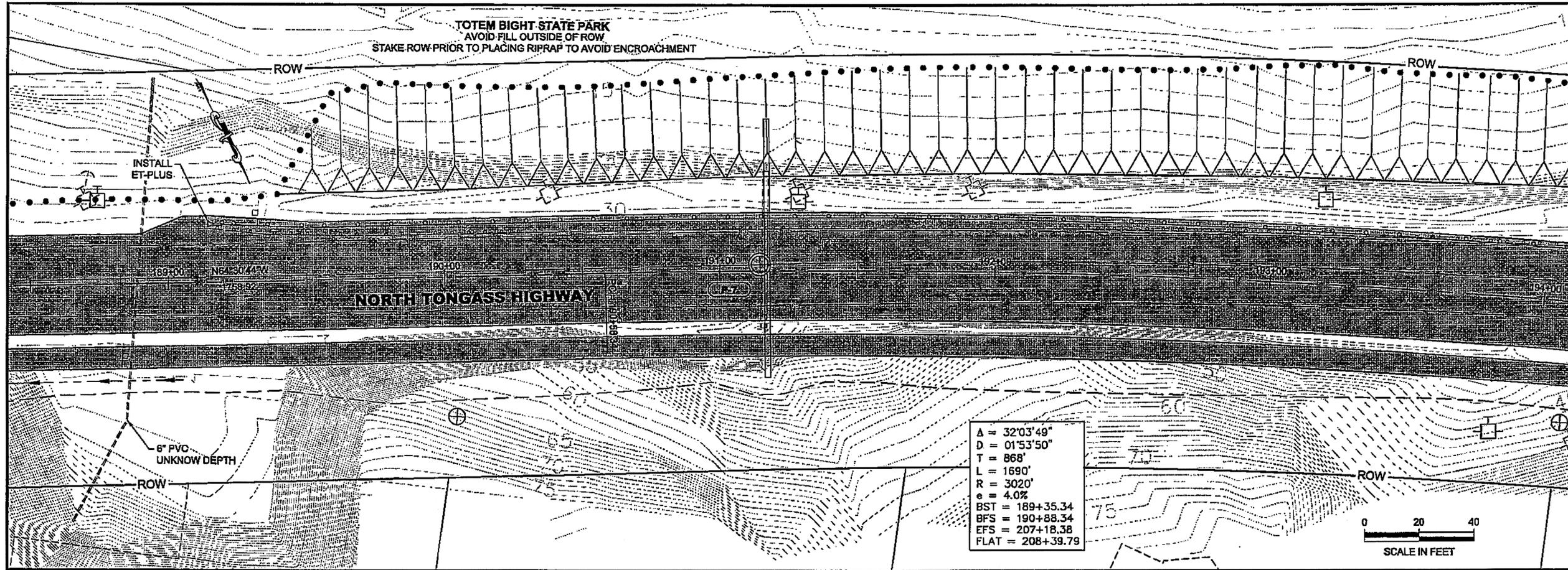
DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION  
 KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**PROJECT PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F3	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/15/13



$\Delta = 32'03'49''$   
 $D = 01'53'50''$   
 $T = 868'$   
 $L = 1690'$   
 $R = 3020'$   
 $e = 4.0\%$   
 $BST = 189+35.34$   
 $BFS = 190+88.34$   
 $EFS = 207+18.38$   
 $FLAT = 208+39.79$



PATH: Q:\KTM\67443\PLANSET\67443\_F1-F10\_P&P.DWG

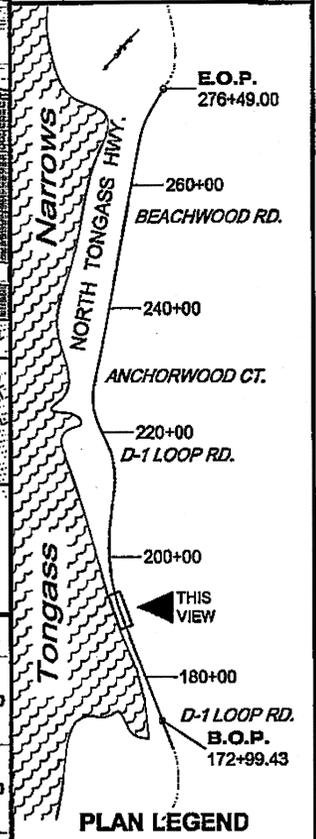
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ADDENDUM NUMBER

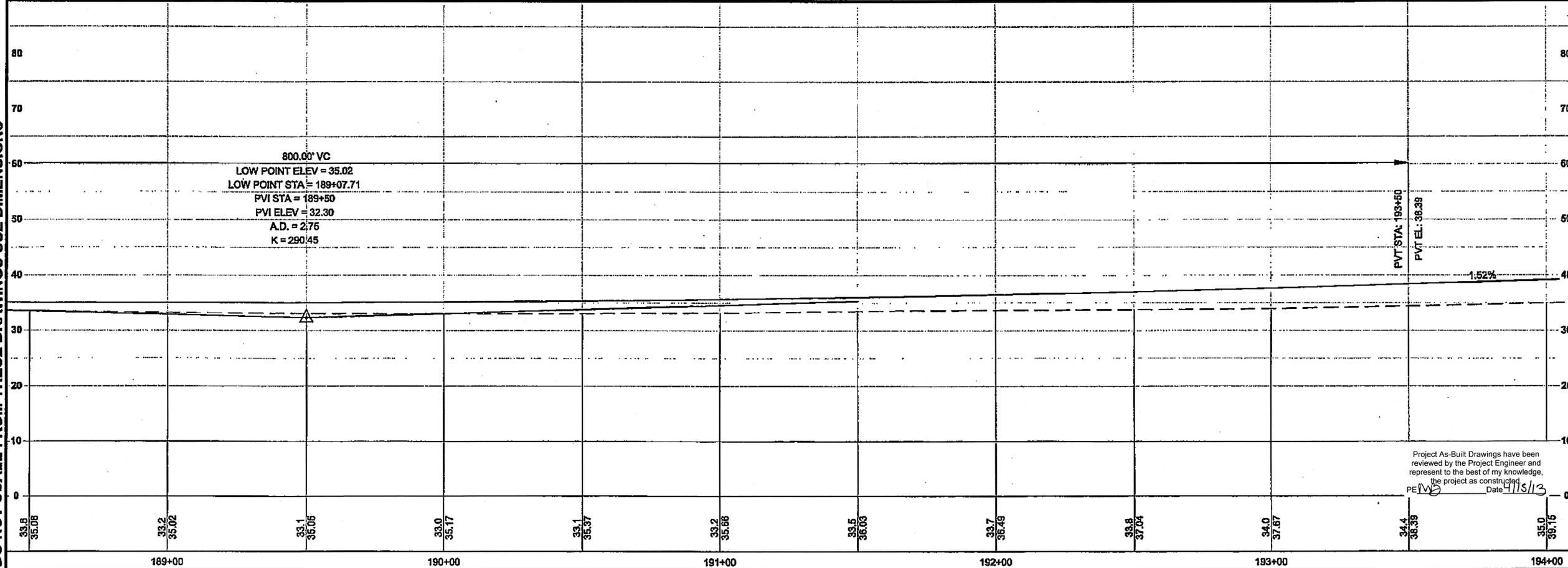
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



800.00' VC  
 LOW POINT ELEV = 35.02  
 LOW POINT STA = 189+07.71  
 PVI STA = 189+50  
 PVI ELEV = 32.30  
 A.D. = 2.75  
 K = 290.45

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Date: 4/15/13

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANHAM

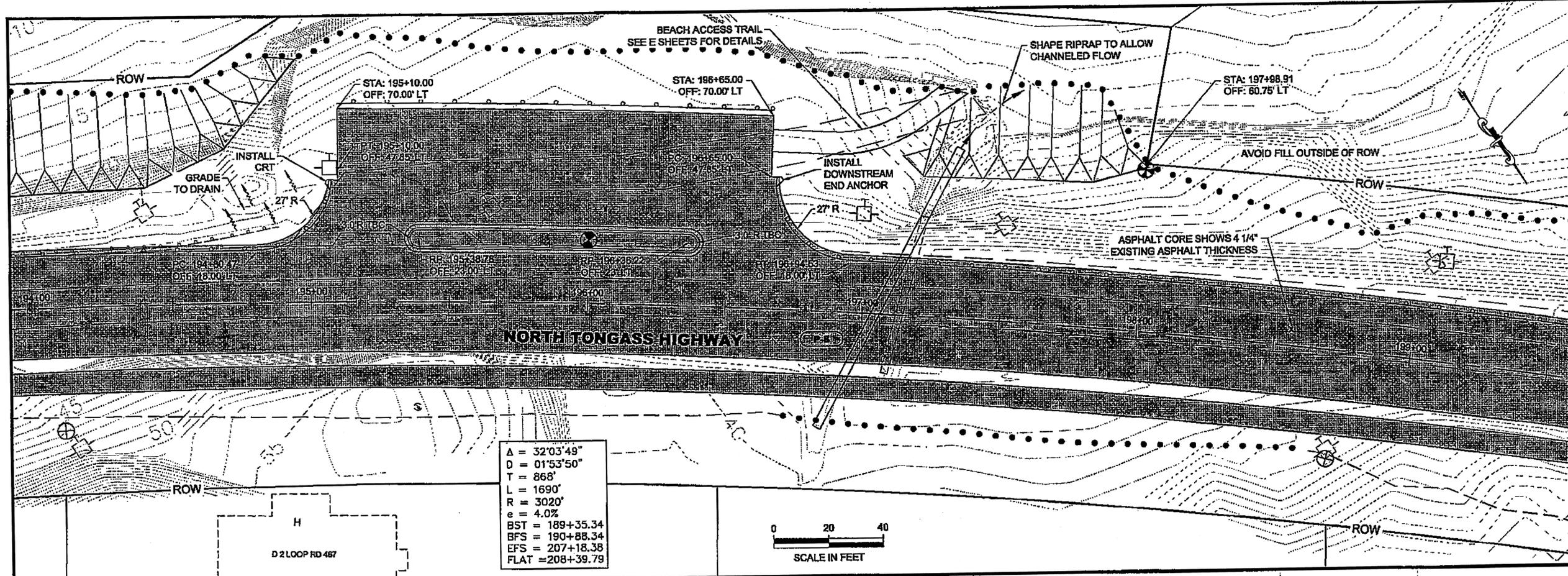
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTH-EAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

**PROJECT PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>F4</b>	<b>102</b>

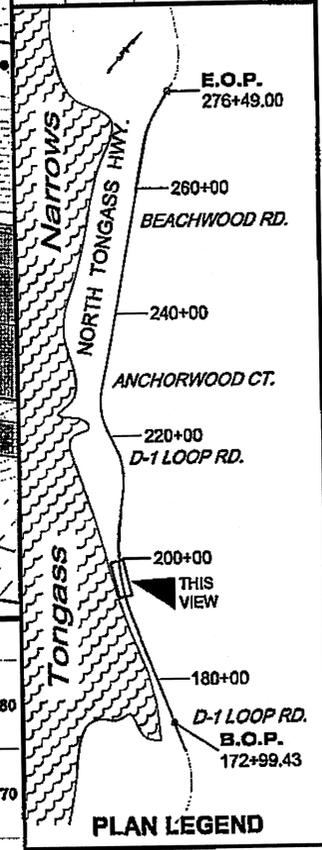


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 $D = 01^{\circ}53'50''$   
 $T = 868'$   
 $L = 1690'$   
 $R = 3020'$   
 $e = 4.0\%$   
 $BST = 189+35.34$   
 $BFS = 190+88.34$   
 $EFS = 207+18.38$   
 $FLAT = 208+39.79$

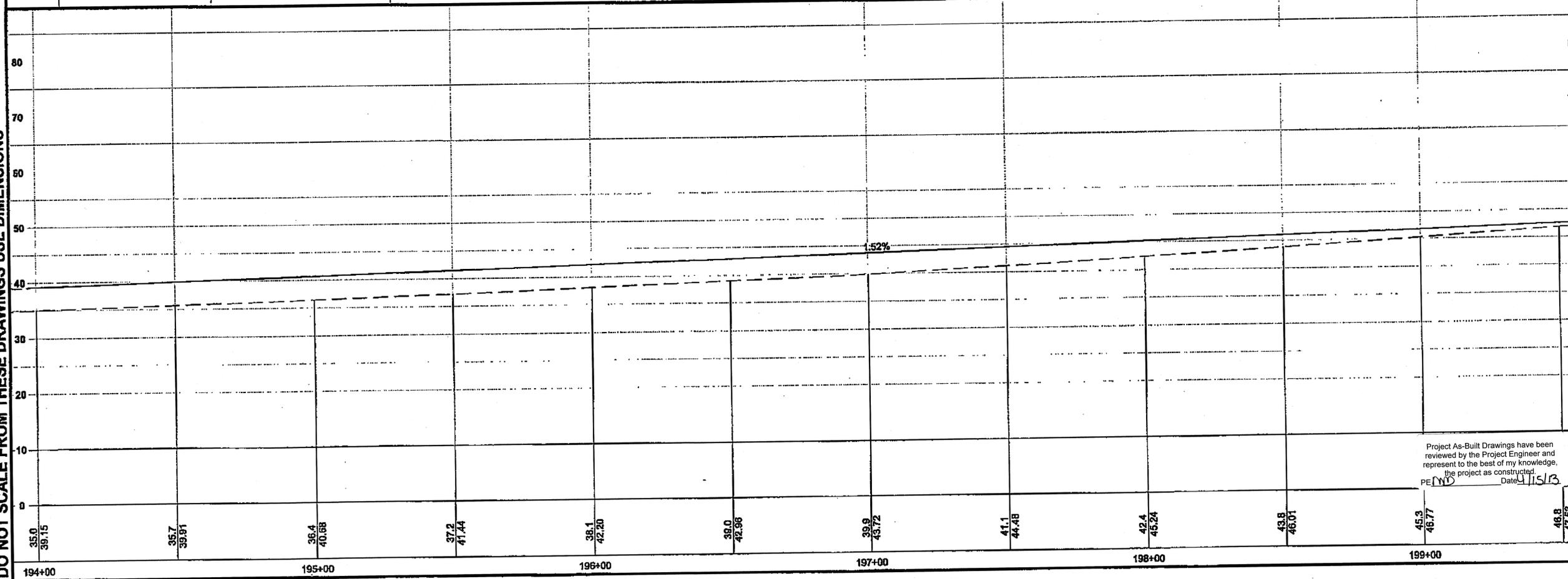


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 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  

No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

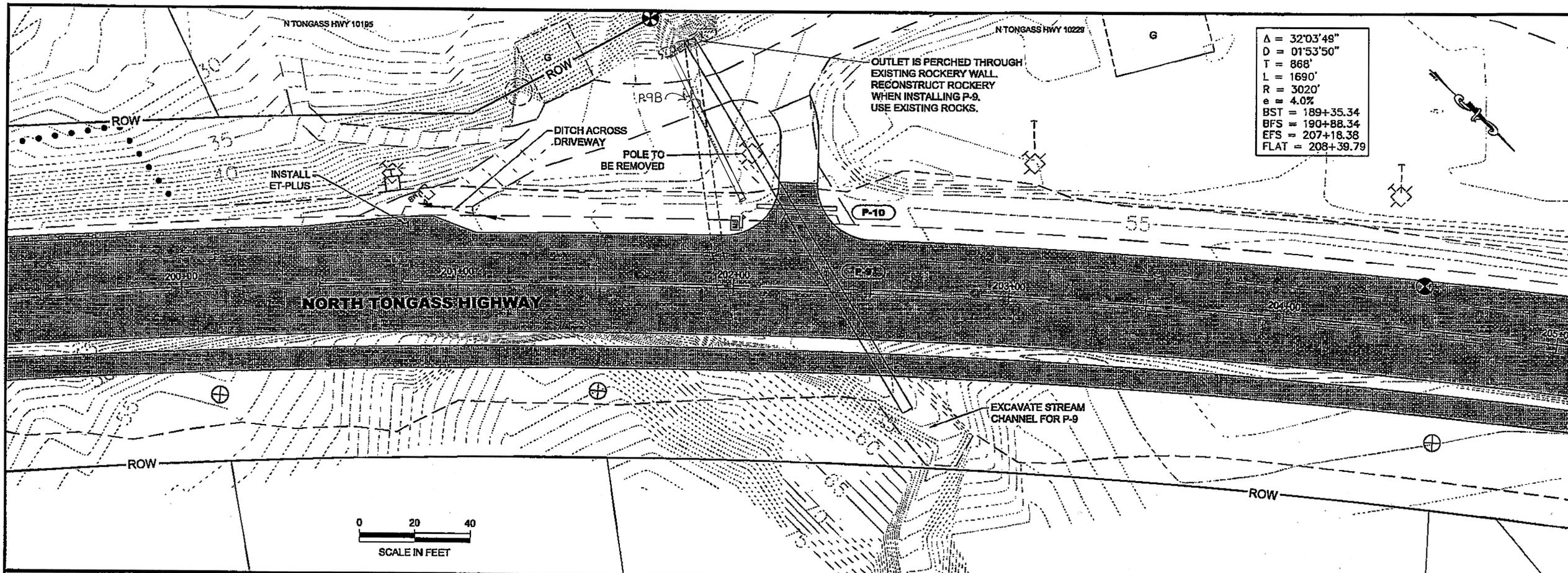


CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY. WARD TO WHIPPLE - STAGE 2 TOTEM BIGHT TO WHIPPLE CREEK**  
**PROJECT PLAN & PROFILE**  
 PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**  

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>F5</b>	<b>102</b>

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: RD Date: 1/15/13

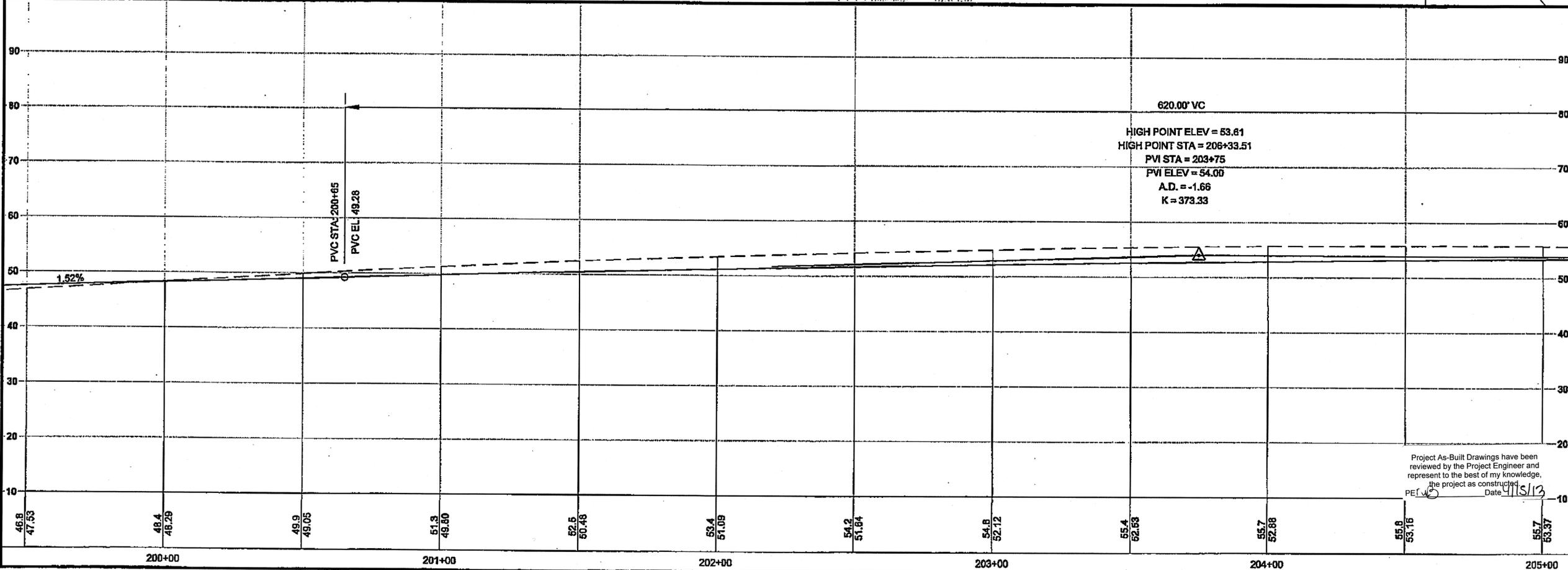
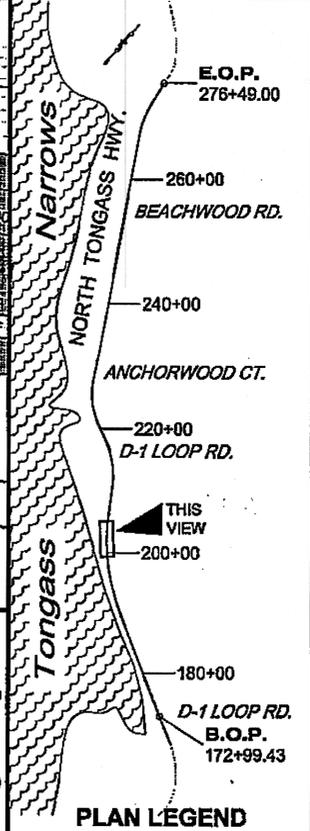


$\Delta = 32^{\circ}03'49''$   
 $D = 01^{\circ}53'50''$   
 $T = 868'$   
 $L = 1690'$   
 $R = 3020'$   
 $e = 4.0\%$   
 $BST = 189+35.34$   
 $BFS = 190+88.34$   
 $EFS = 207+18.38$   
 $FLAT = 208+39.79$



PATH: Q:\KTN\67443\PLANSET\67443\_P1-P19\_P&P.DWG  
 TAB: F6 GRANTHAM, RICK L (DOT)  
 APPENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  

No.	DATE	DESCRIPTION



620.00' VC  
 HIGH POINT ELEV = 53.61  
 HIGH POINT STA = 208+33.51  
 PVI STA = 203+75  
 PVI ELEV = 54.00  
 A.D. = -1.66  
 K = 373.33

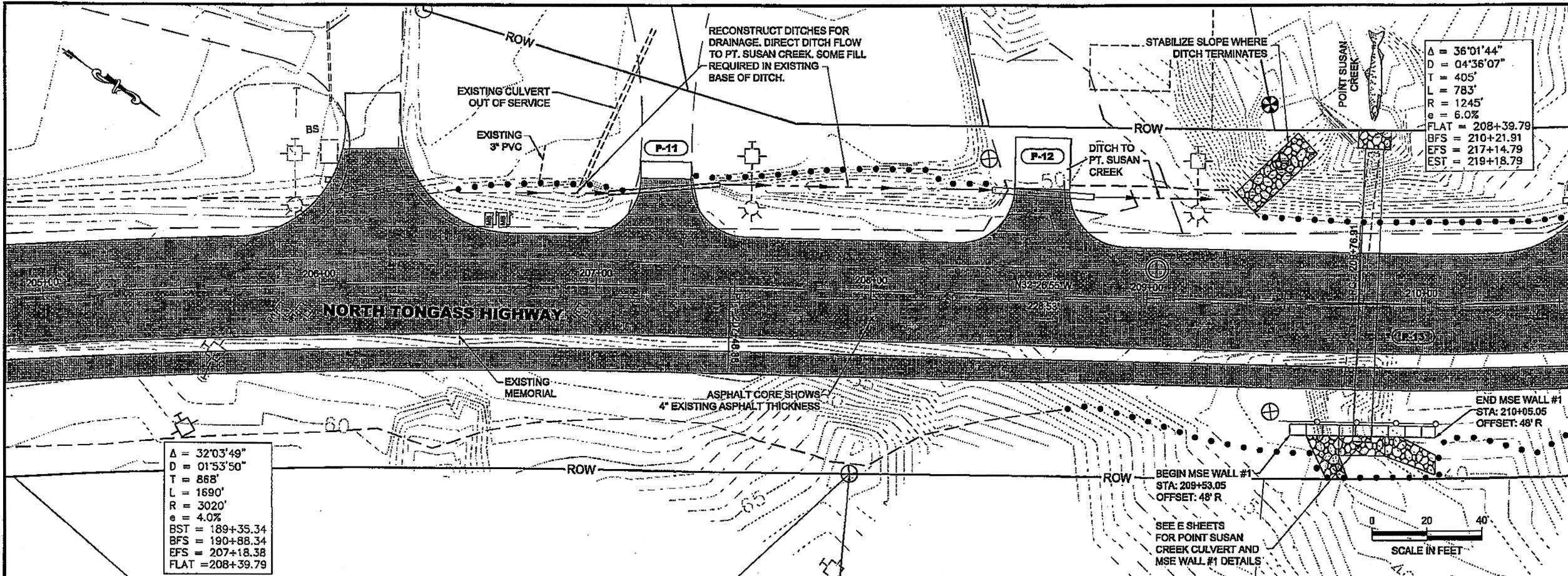
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER, J. WEAVER  
 DRAWN BY: R. GRANTHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**  
**PROJECT  
 PLAN & PROFILE**  
 PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**  

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>F6</b>	<b>102</b>

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Date: 4/15/13



$\Delta = 36^{\circ}01'44''$
$D = 04^{\circ}36'07''$
$T = 405'$
$L = 783'$
$R = 1245'$
$e = 6.0\%$
FLAT = 208+39.79
BFS = 210+21.91
EFS = 217+14.79
EST = 219+18.79

$\Delta = 32^{\circ}03'49''$
$D = 01^{\circ}53'50''$
$T = 868'$
$L = 1690'$
$R = 3020'$
$e = 4.0\%$
BST = 189+35.34
BFS = 190+88.34
EFS = 207+18.38
FLAT = 208+39.79

PATH: Q:\K17\07443\PLANS\SET167443\_P1-F19\_P&P.DWG

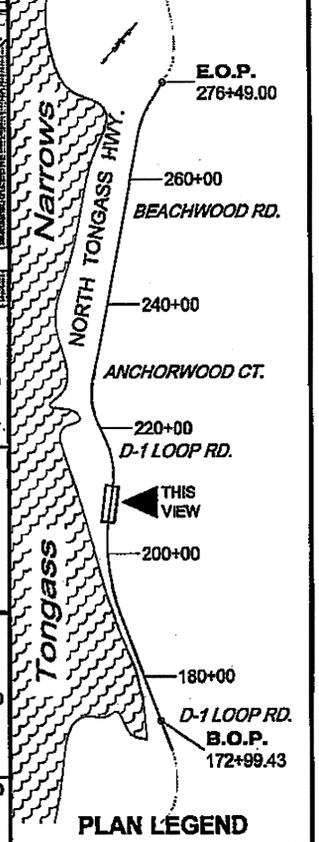
TAB: F7 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

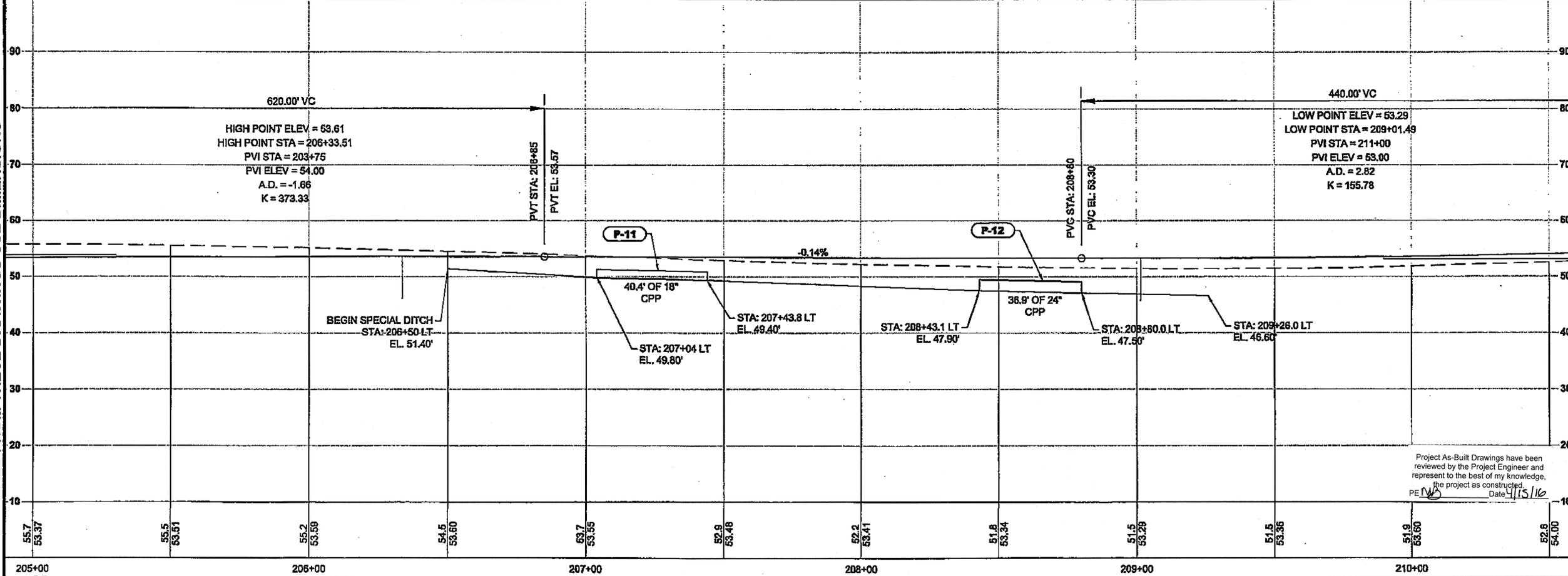
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

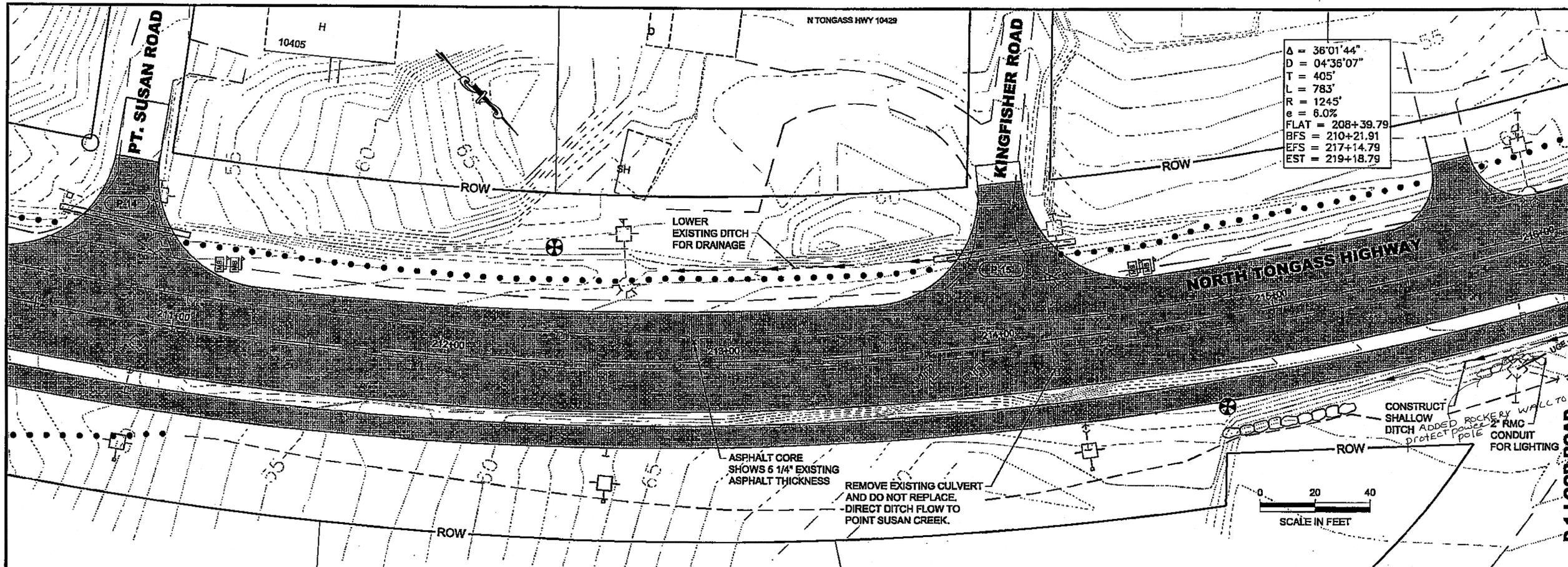
**PROJECT PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>F7</b>	<b>102</b>



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



$\Delta = 36^{\circ}01'44''$   
 $D = 04^{\circ}36'07''$   
 $T = 405'$   
 $L = 783'$   
 $R = 1245'$   
 $e = 6.0\%$   
 $FLAT = 208+39.79$   
 $BFS = 210+21.91$   
 $EFS = 217+14.79$   
 $EST = 219+18.79$

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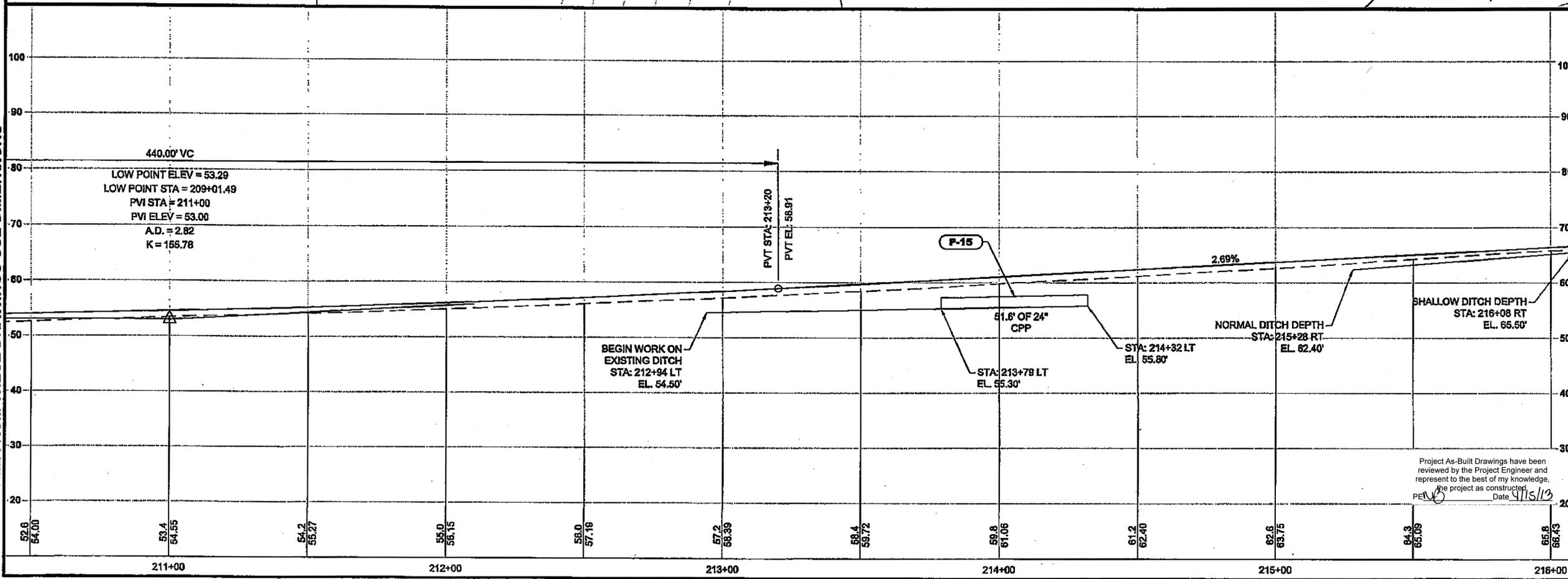
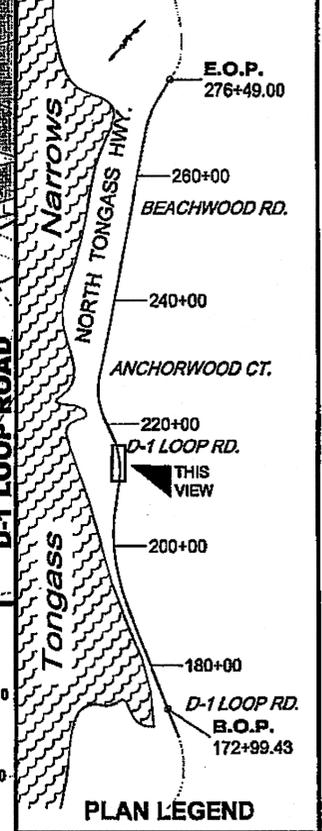
TAB: F8 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

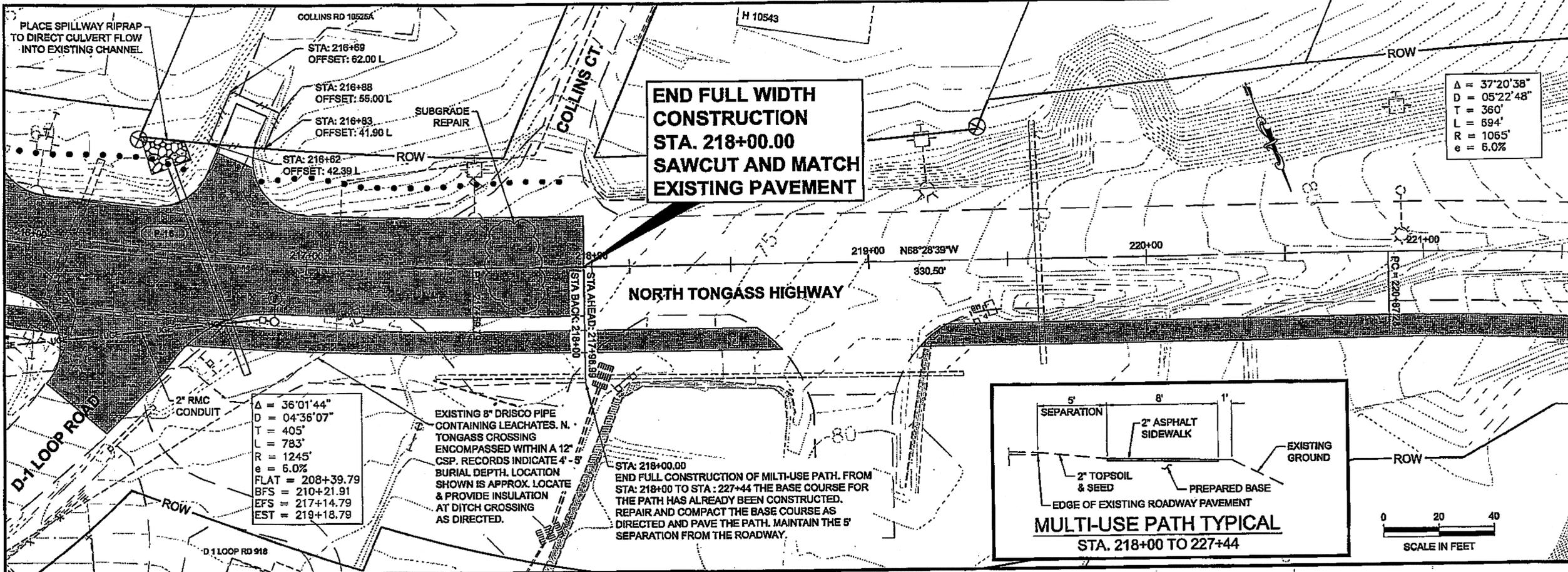
KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**PROJECT PLAN & PROFILE**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
F8	102



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 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION

E.O.P. 276+49.00  
 260+00 BEACHWOOD RD.  
 240+00  
 ANCHORWOOD CT.  
 220+00 D-1 LOOP RD.  
 200+00  
 180+00 D-1 LOOP RD.  
 B.O.P. 172+89.43

**PLAN LEGEND**

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

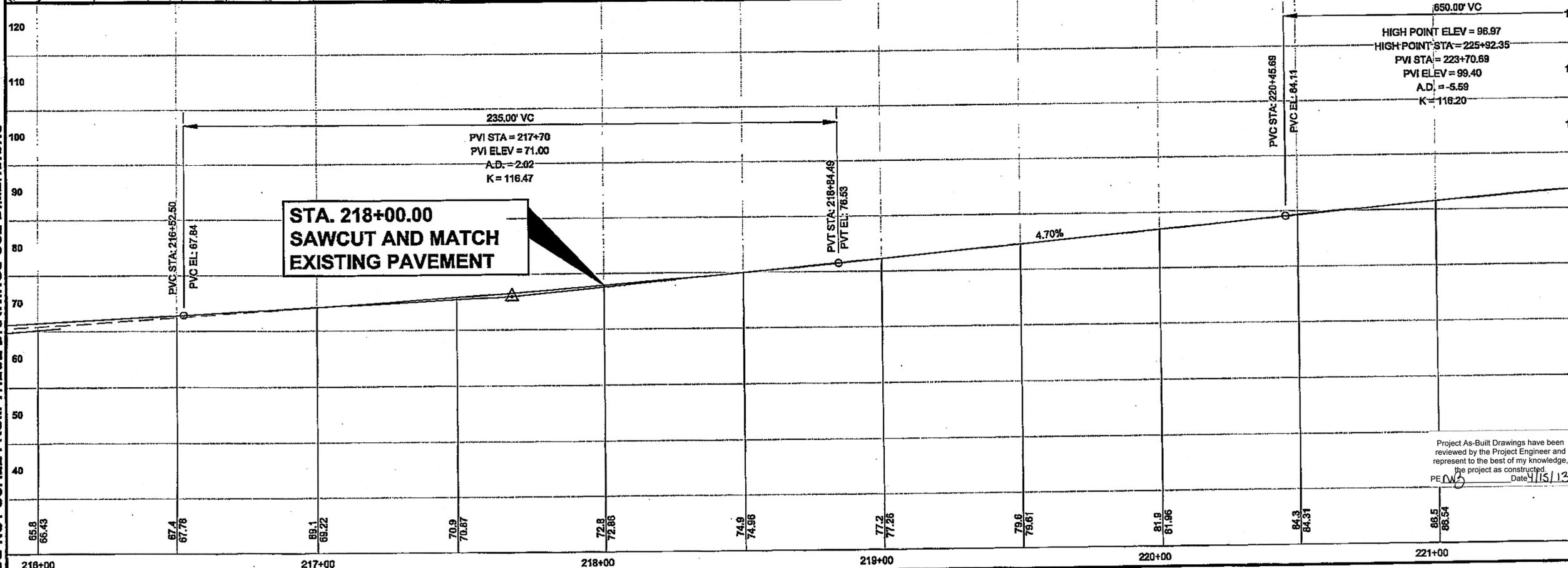
KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**PROJECT PLAN & PROFILE**

PROJECT DESIGNATION  
 NH-ARA-0920(25) - 67443

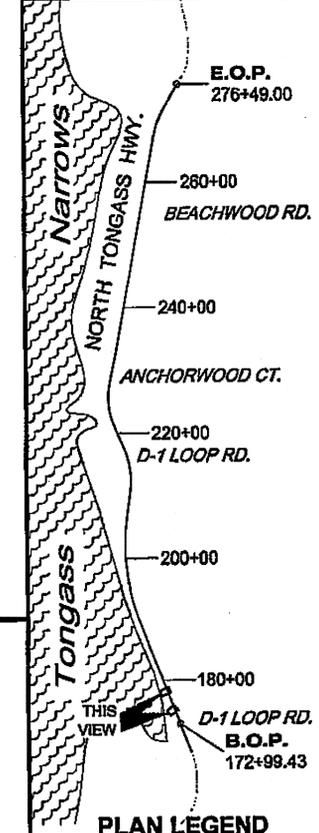
STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
F9	102



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 11/15/13

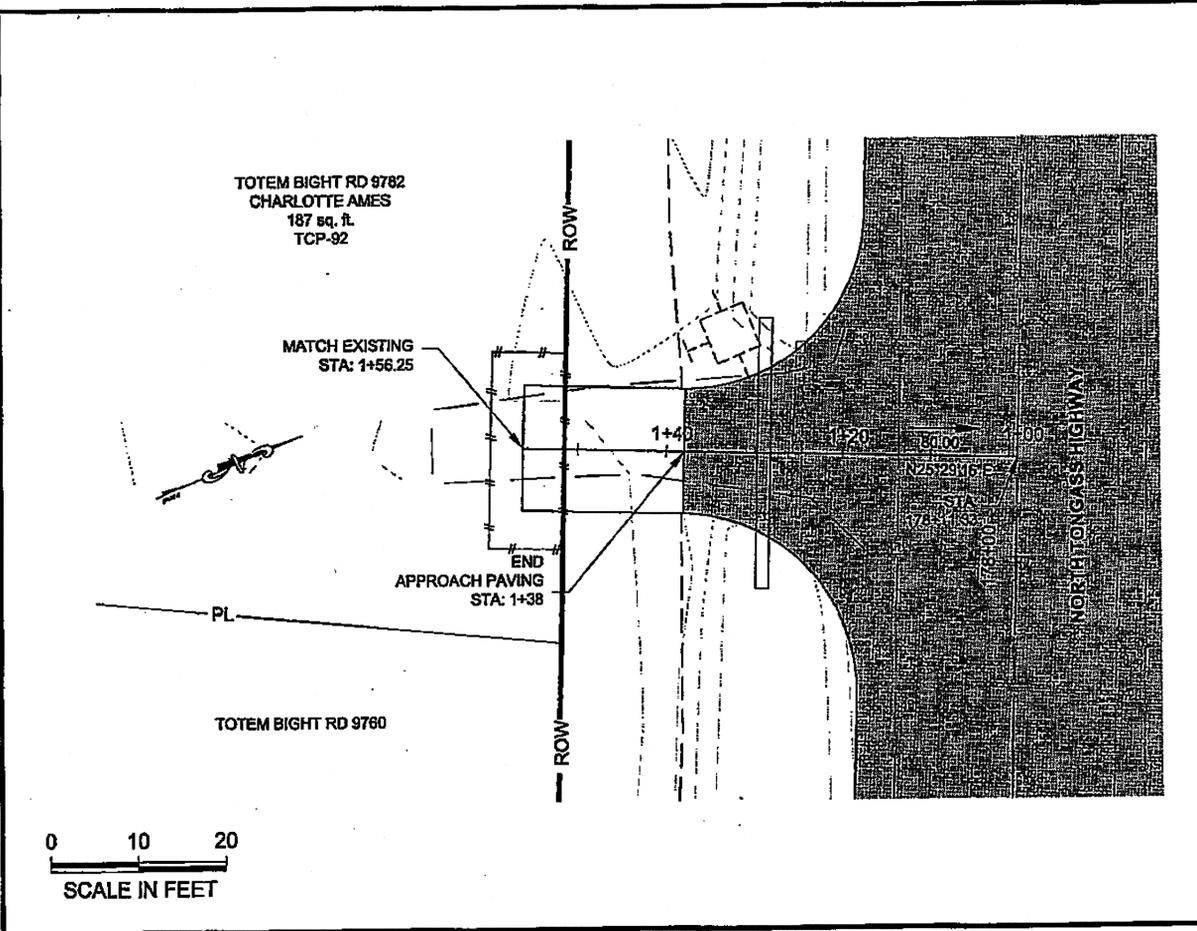
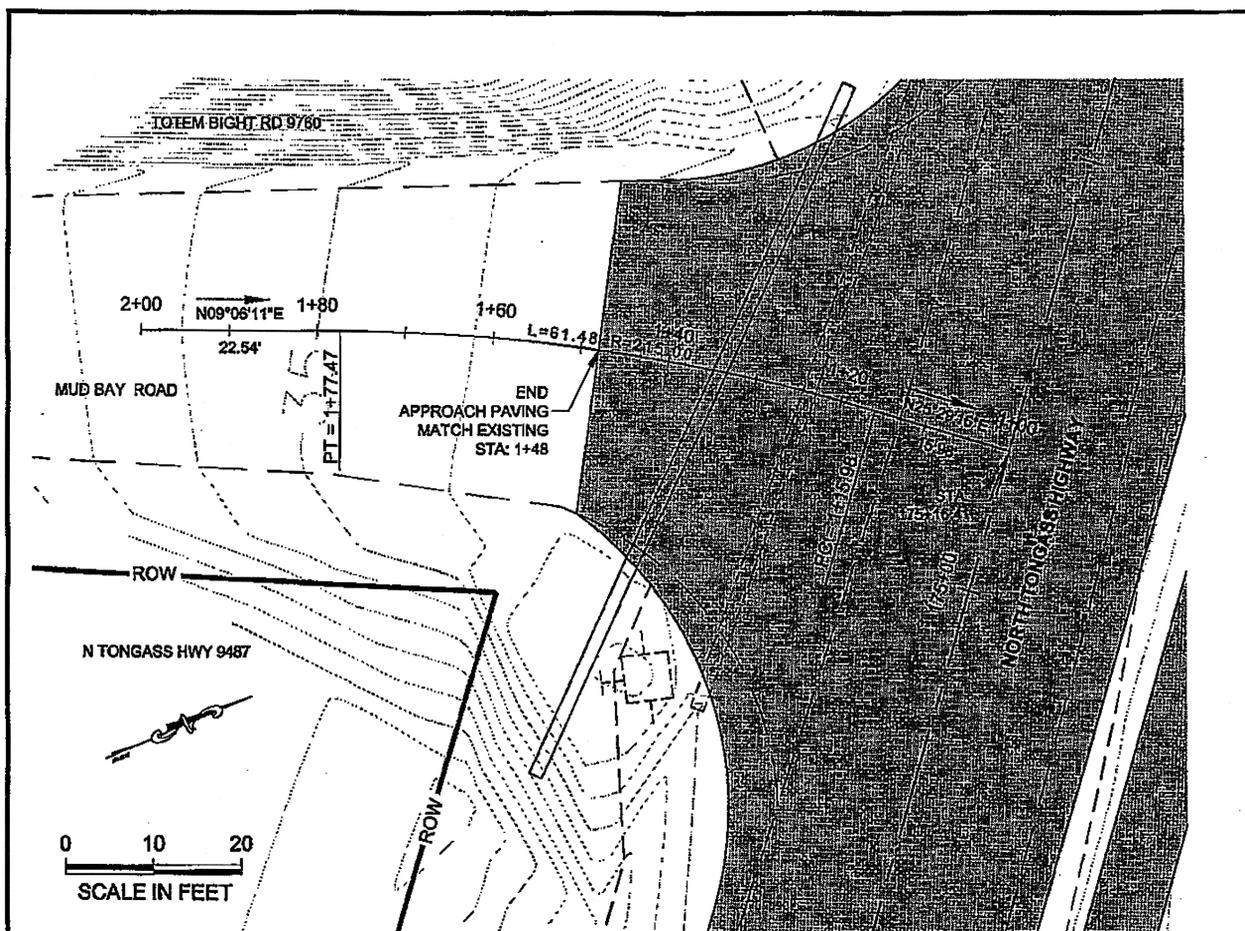
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



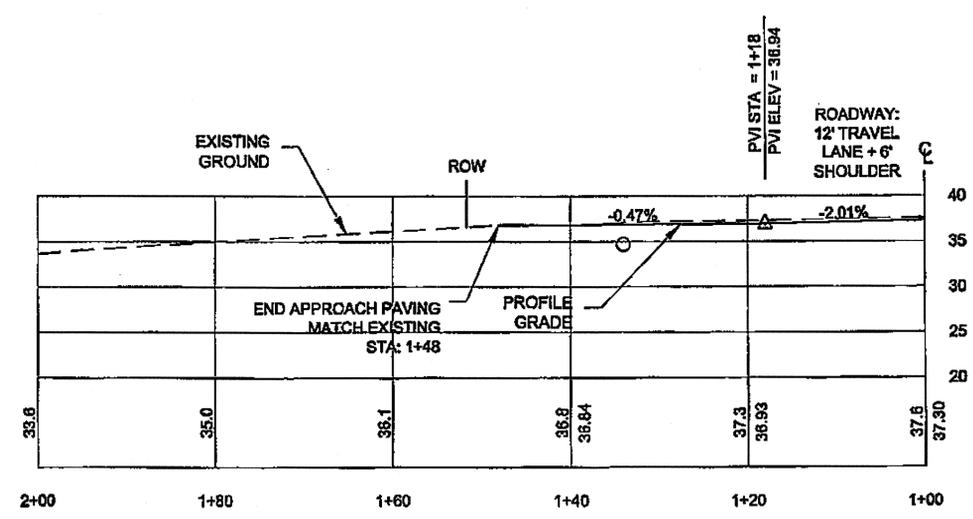
CHECKED BY: G. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY. WARD TO WHIPPLE - STAGE 2 TOTEM BIGHT TO WHIPPLE CREEK**

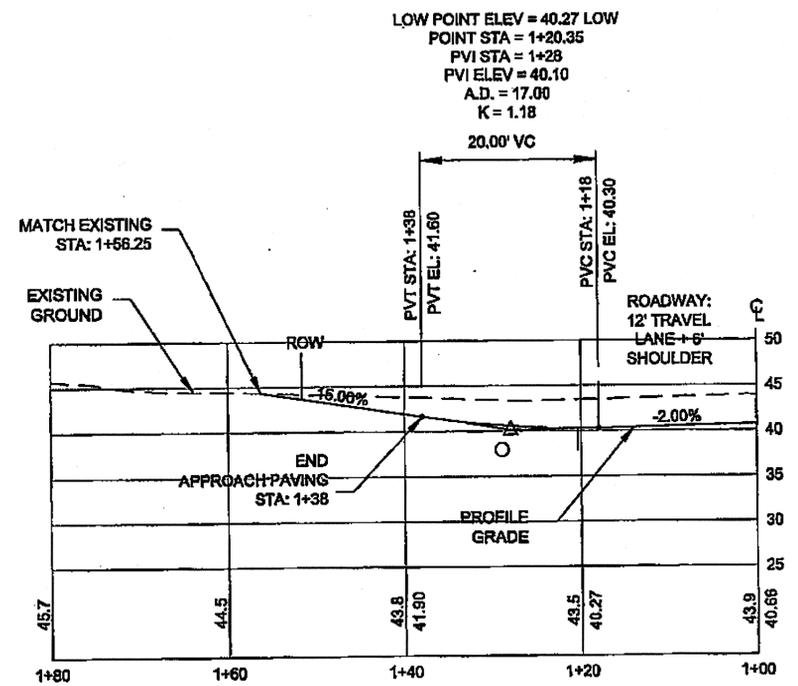
<b>APPROACH PLAN &amp; PROFILE</b>	
PROJECT DESIGNATION	
NH-ARA-0920(25) - 67443	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G1	102



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



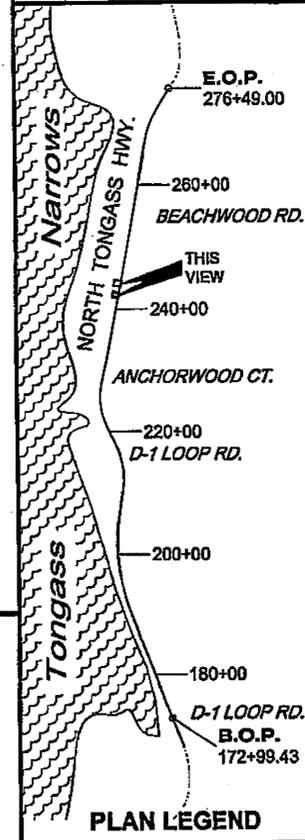
**DW 175+16 LT  
MUD BAY ROAD**



**DW 178+11 LT**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 4/15/13

TAB: G10	GRANTHAM, RICK L. (DOT)	
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

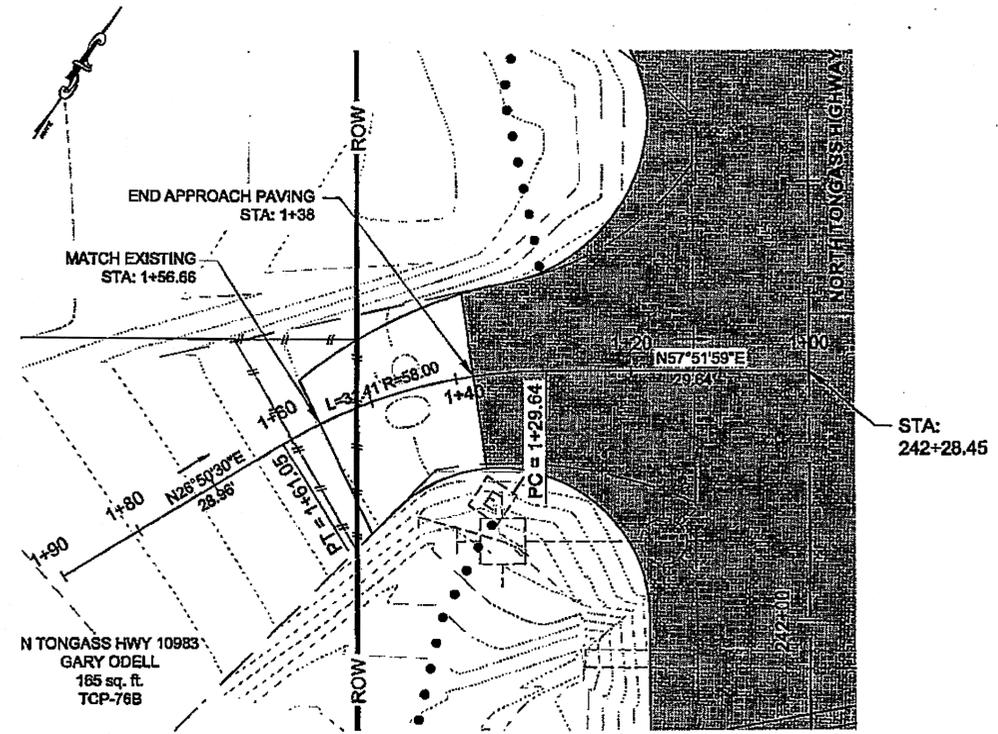
DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

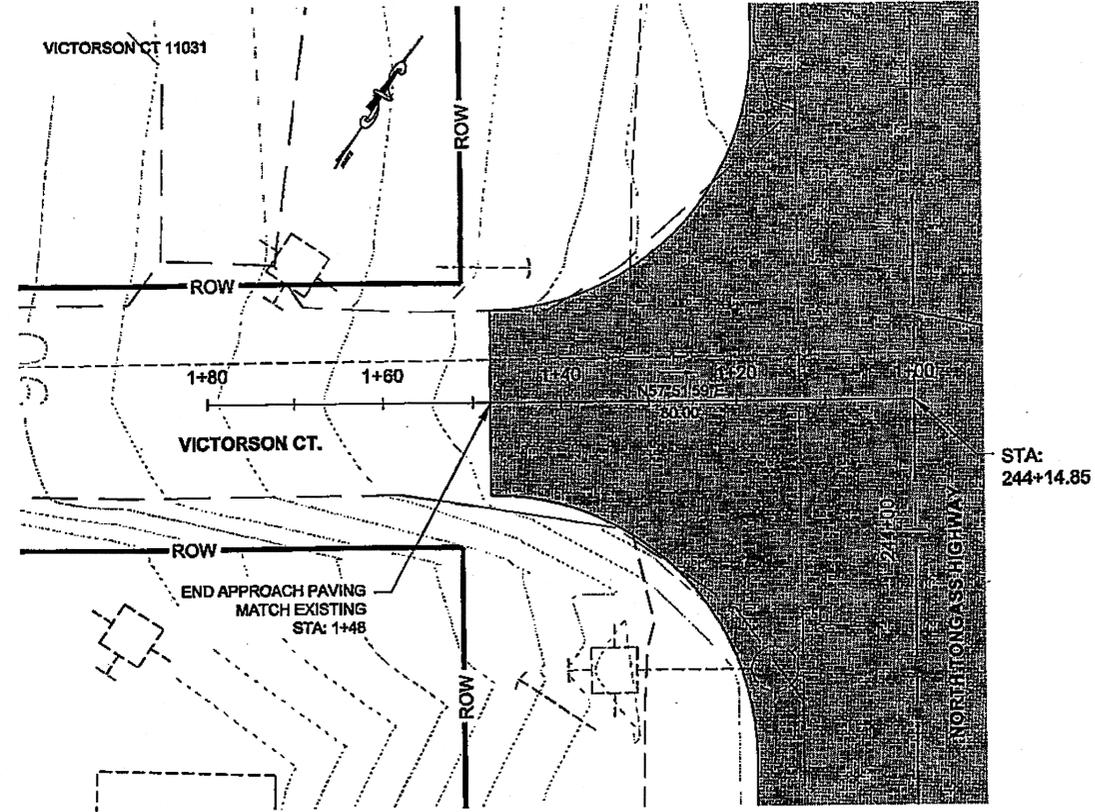
PROJECT DESIGNATION	
NH-ARA-0920(25) - 67443	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G10	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *MS* Date: 4/16/13



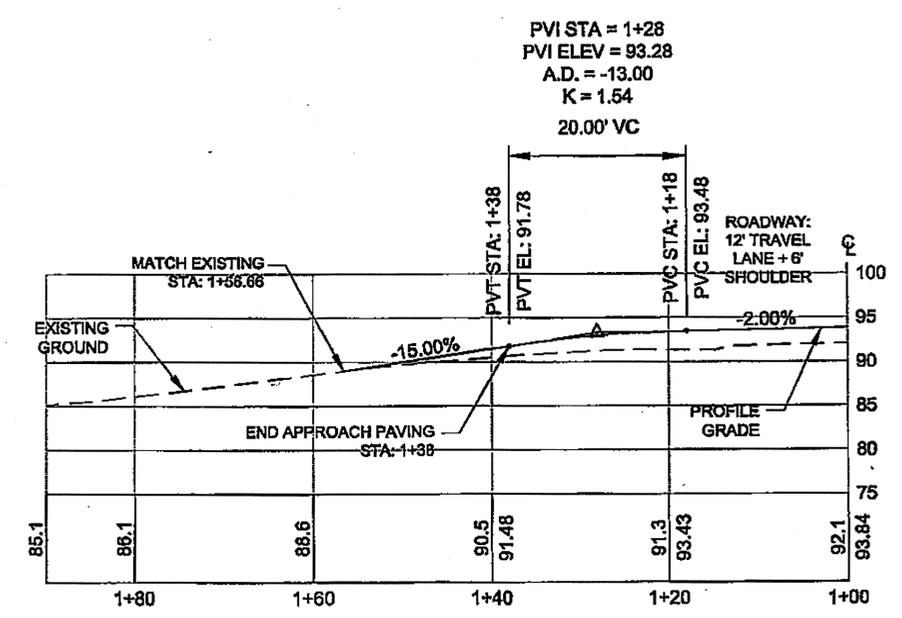
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STA:  
242+28.45

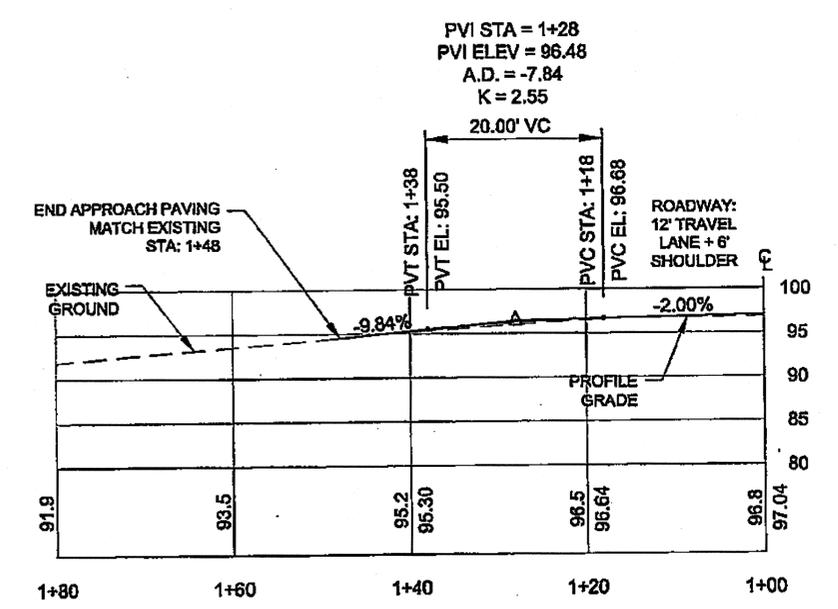


0 10 20  
SCALE IN FEET

STA:  
244+14.85



DW 242+28 LT



DW 244+14 LT  
VICTORSON COURT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

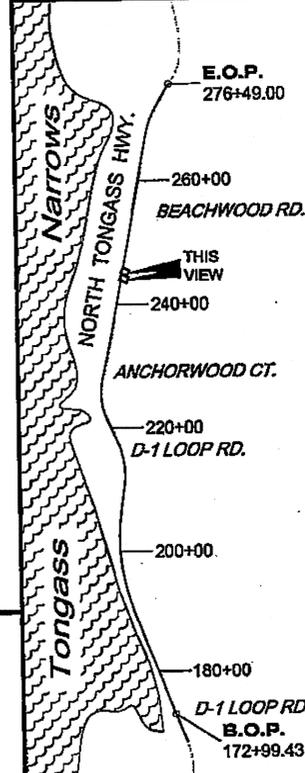
TAB: G11 GRANTHAM, RICK L (DOT)

APPENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



**PLAN LEGEND**

CHECKED BY: C. HOWARD



DESIGNED BY: D. LESTER-J. WEAVER  
DRAWN BY: R. GRANTHAM

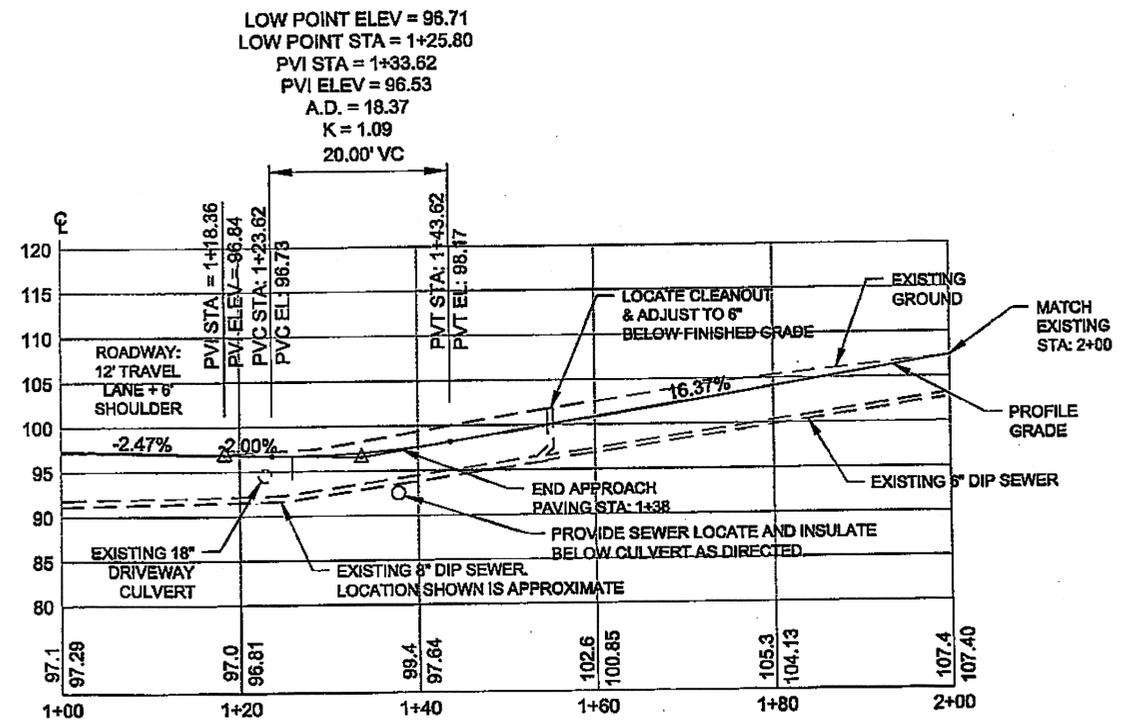
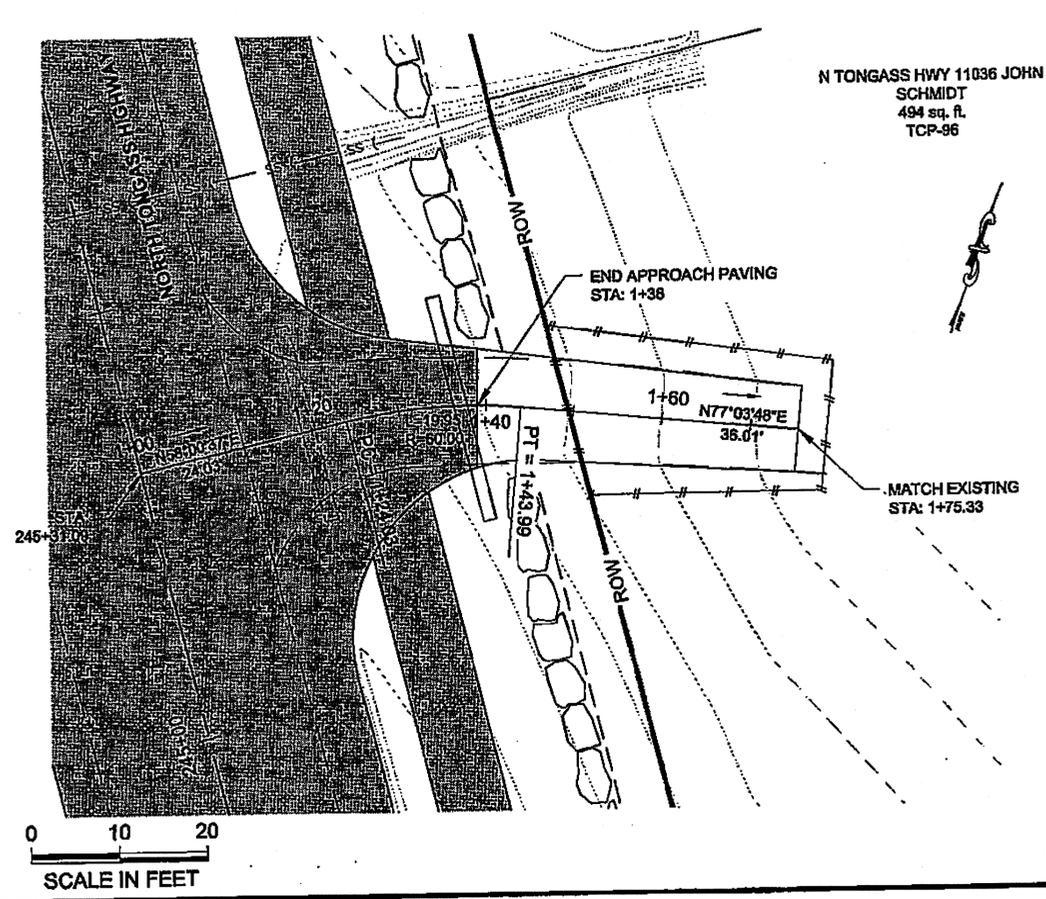
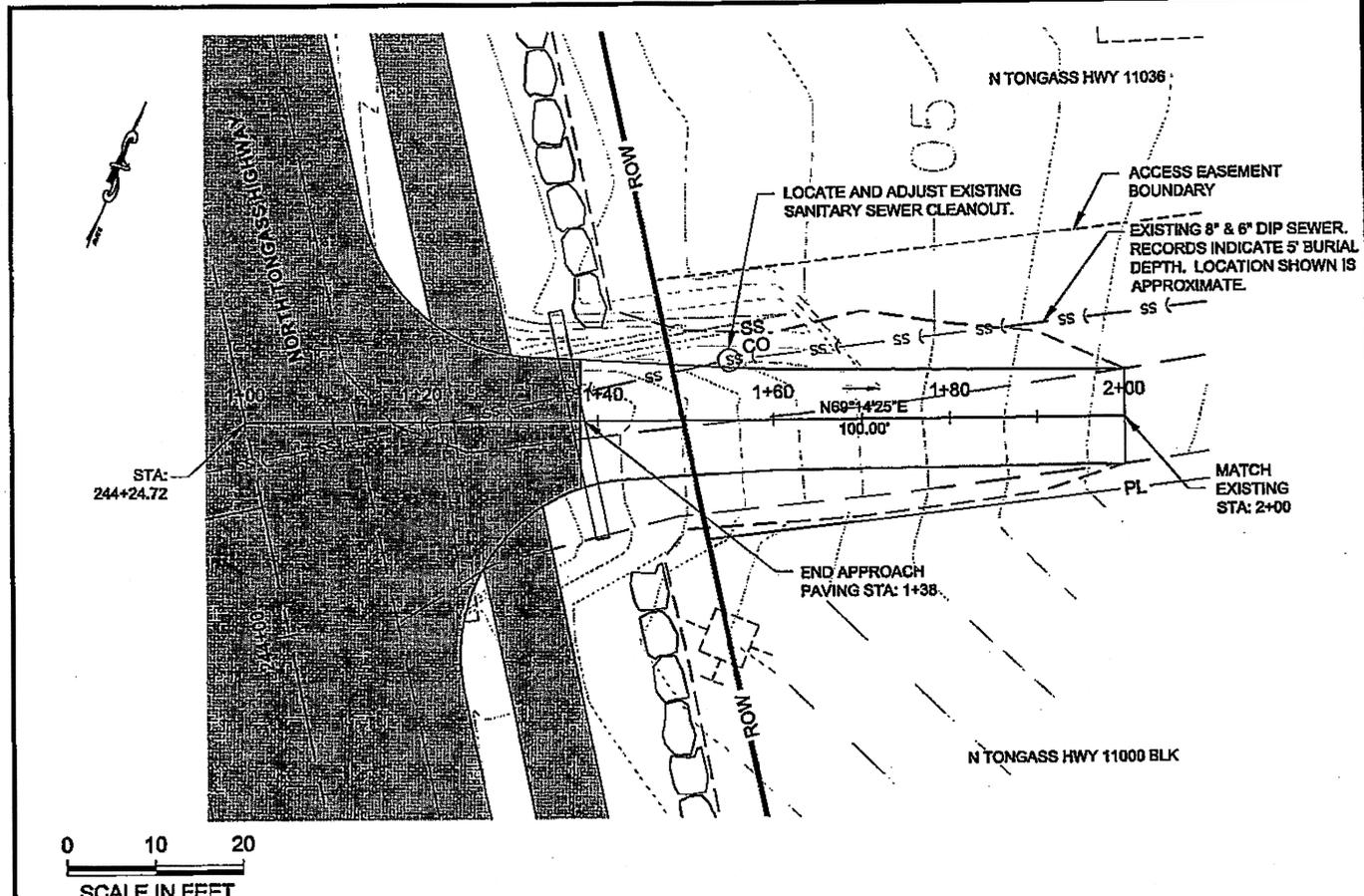
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

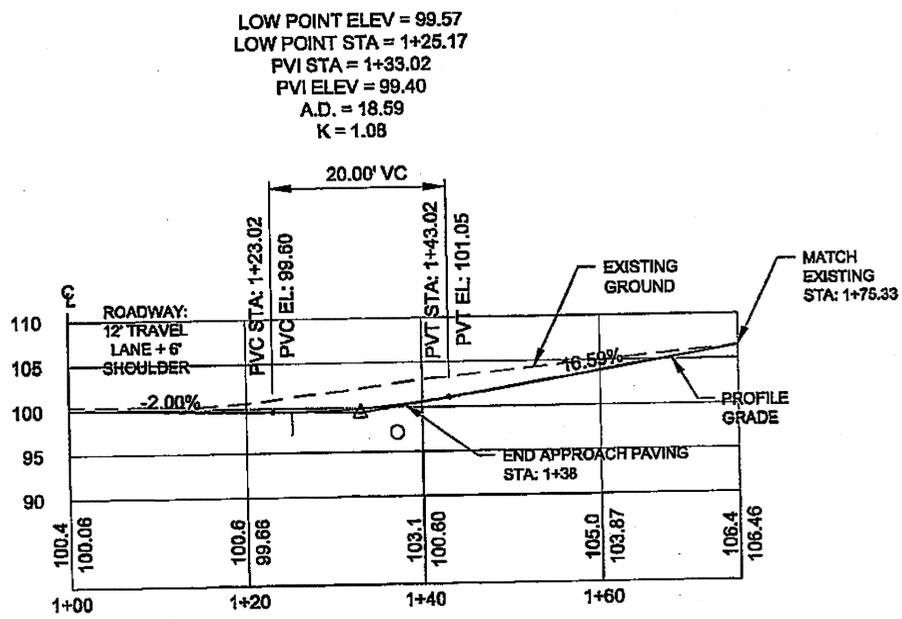
**APPROACH  
PLAN & PROFILE**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G11	102



**DW 244+25 RT**

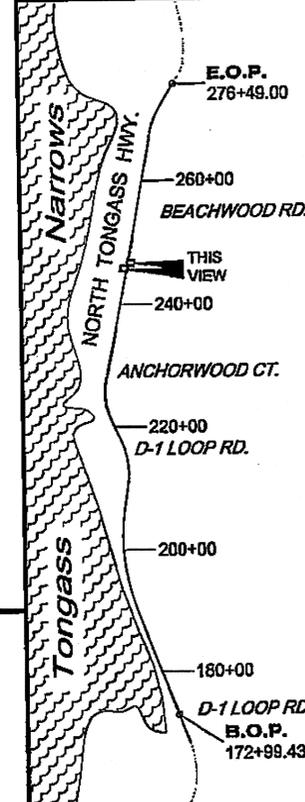


**DW 245+31 RT**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed, date 4/11/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**PLAN LEGEND**

CHECKED BY: C. HOWARD



DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

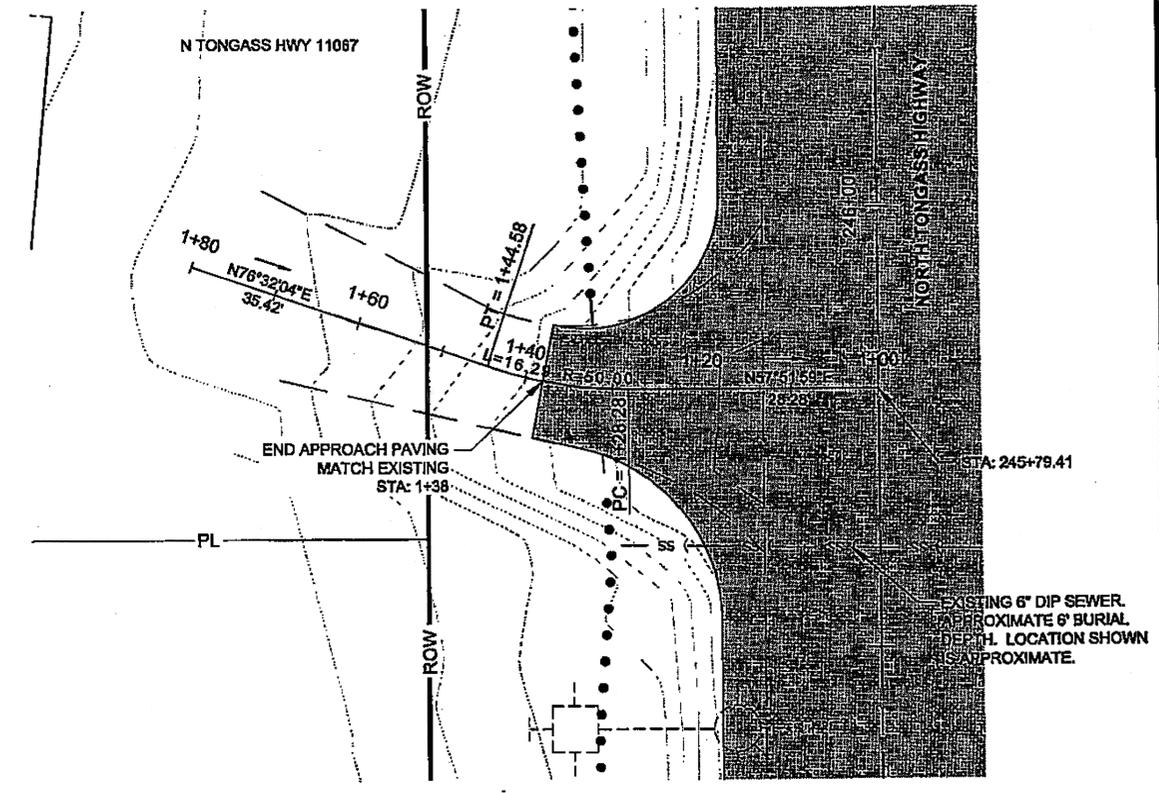
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**APPROACH  
 PLAN & PROFILE**

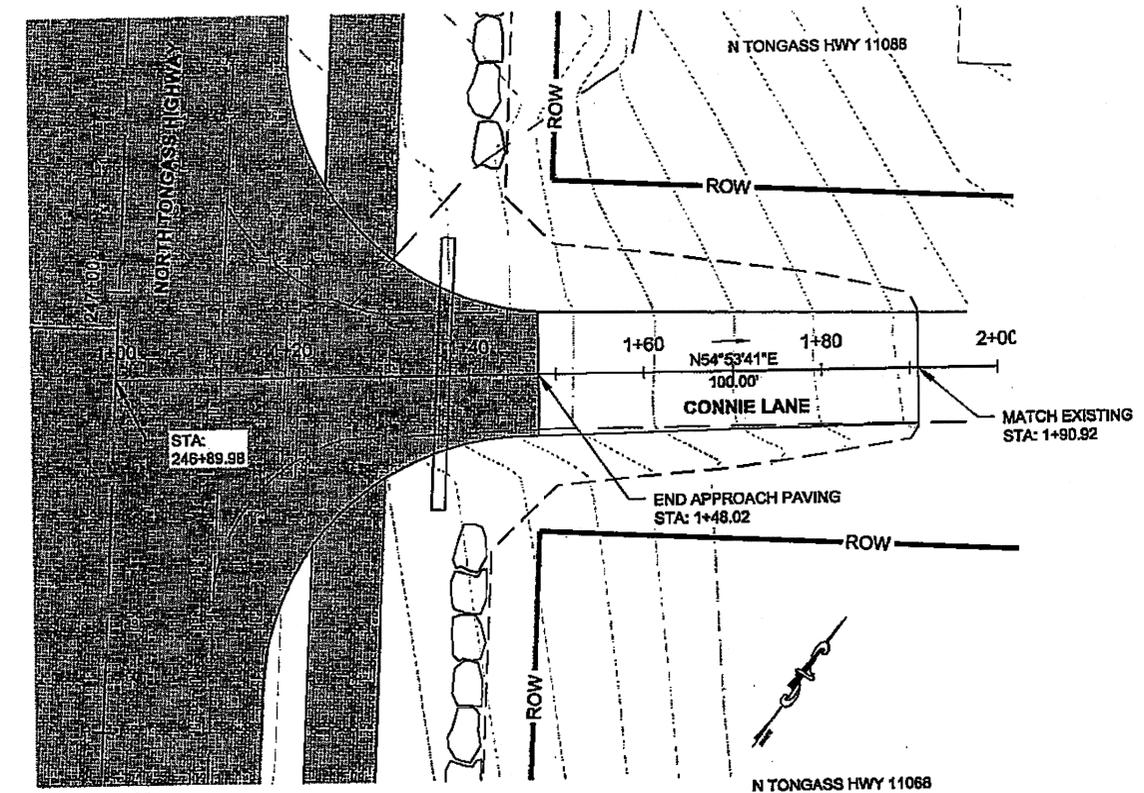
PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>G12</b>	<b>102</b>

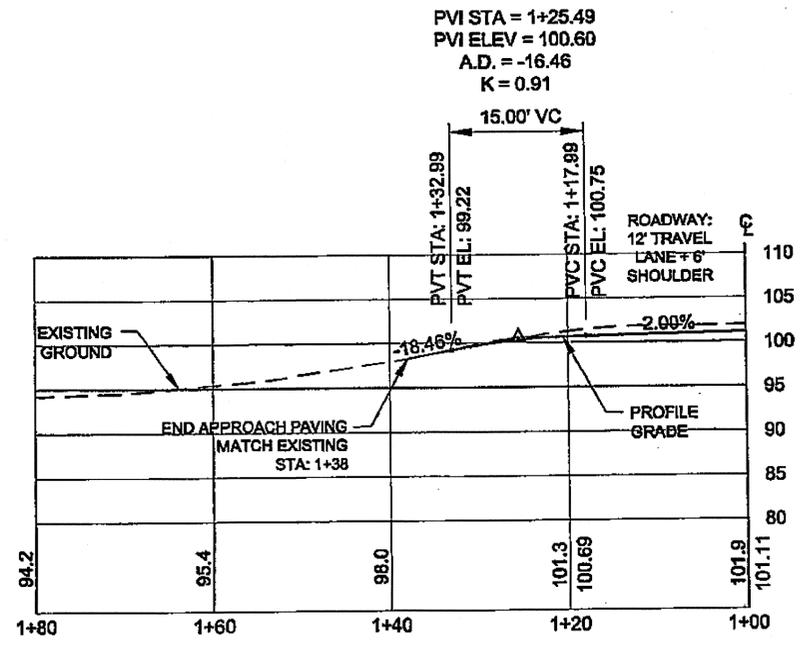
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Date: 11/16/13  
 PE: [Signature]



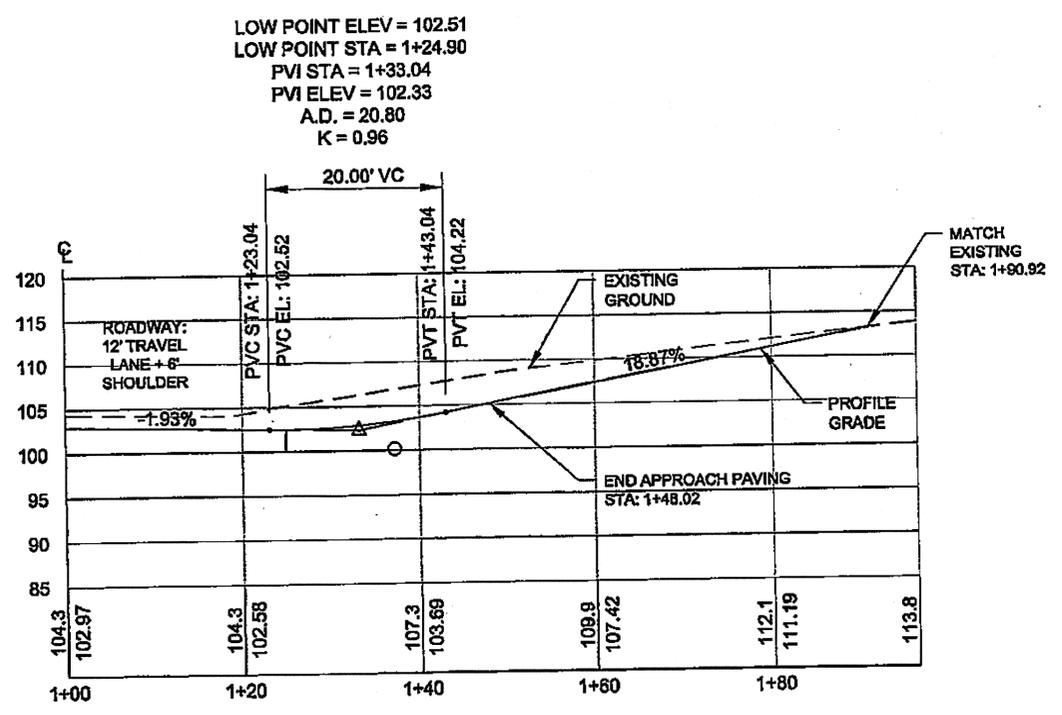
0 10 20  
 SCALE IN FEET



0 10 20  
 SCALE IN FEET



**DW 245+79 LT**



**DW 246+90 RT  
 CONNIE LANE**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

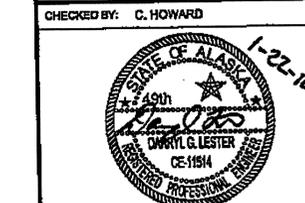
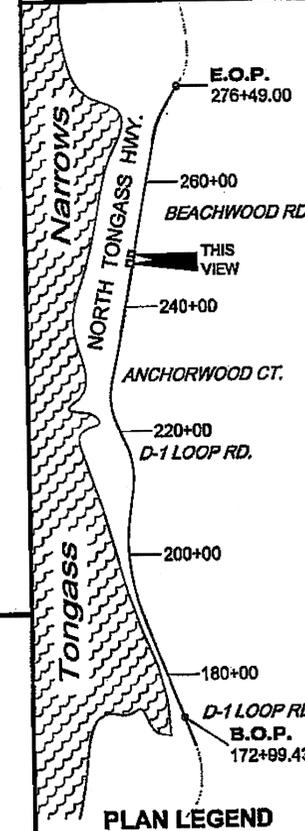
TAB: G13 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: D. LESTER J. WEAVER

DRAWN BY: R. GRANHAM

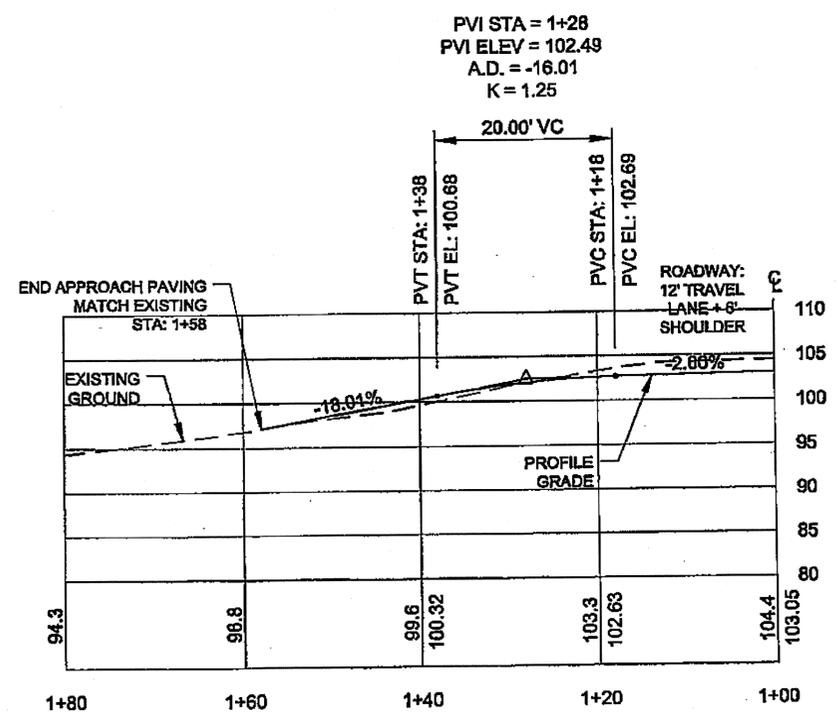
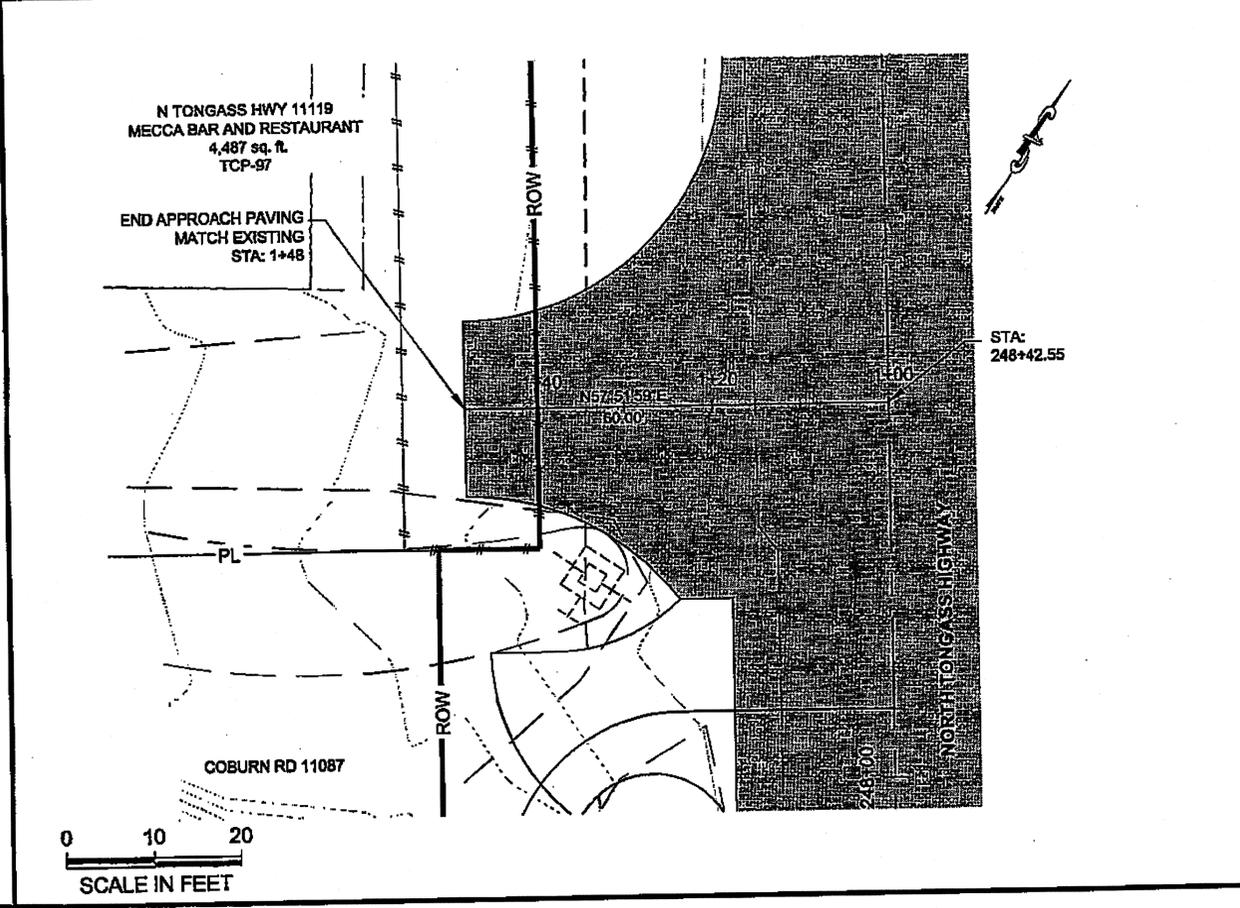
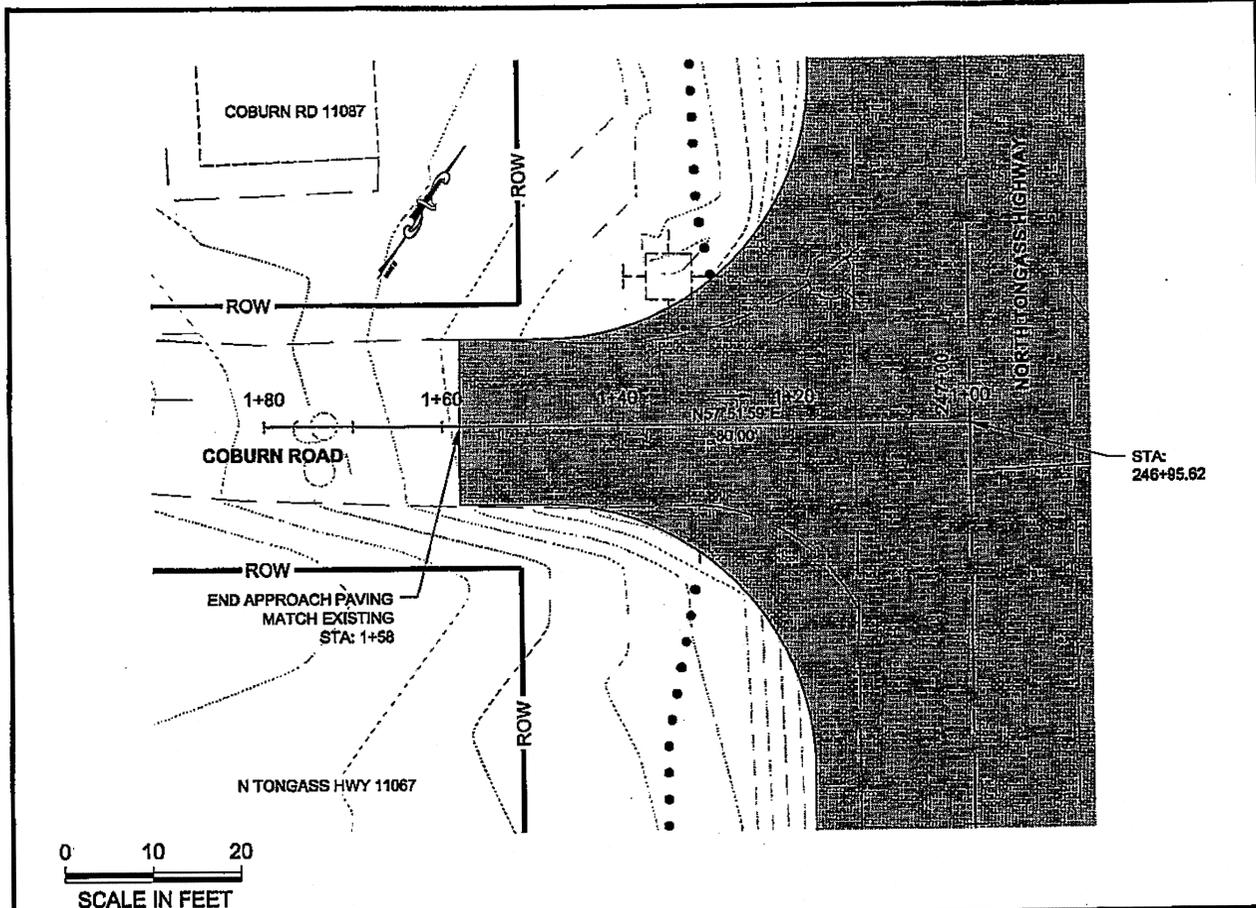
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

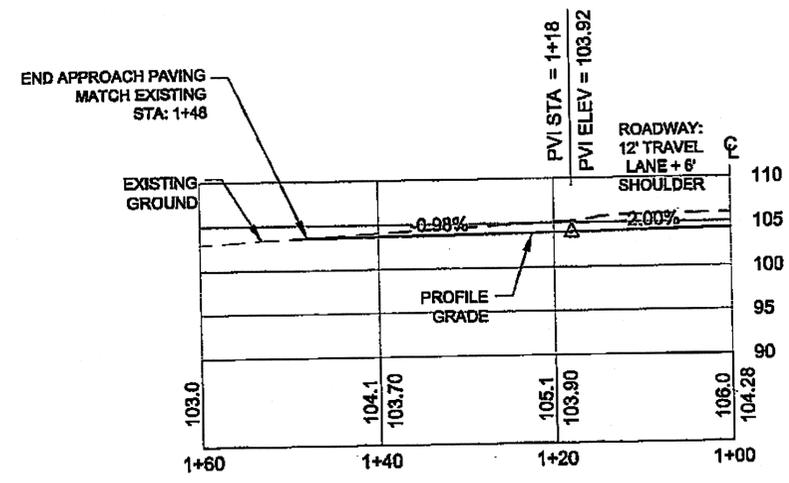
**APPROACH  
PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>G13</b>	<b>102</b>



**DW 246+95 LT  
COBURN RD**



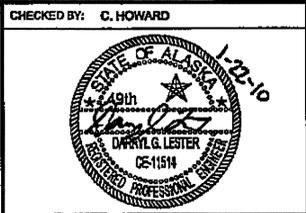
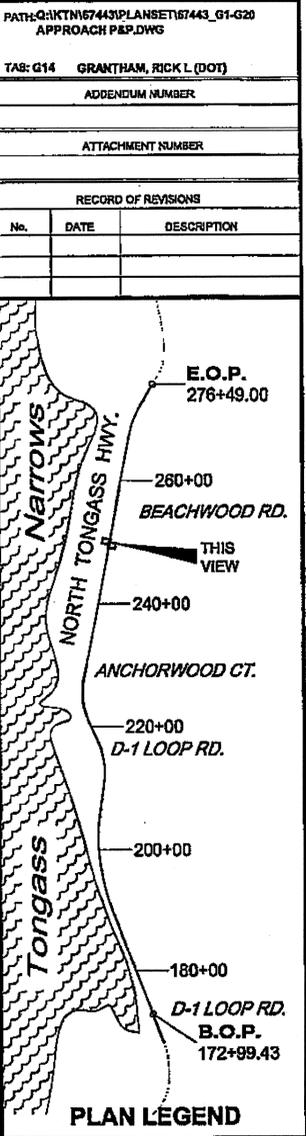
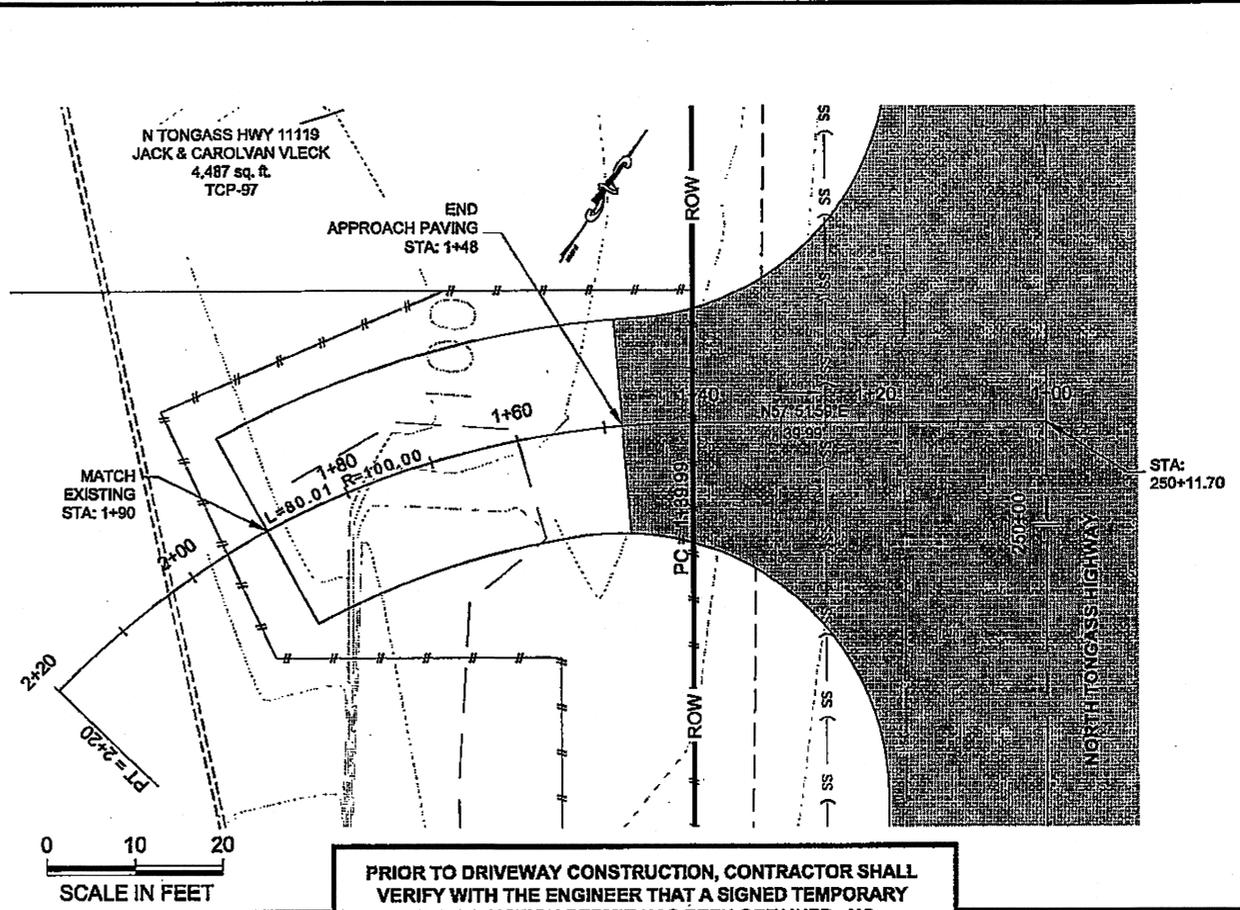
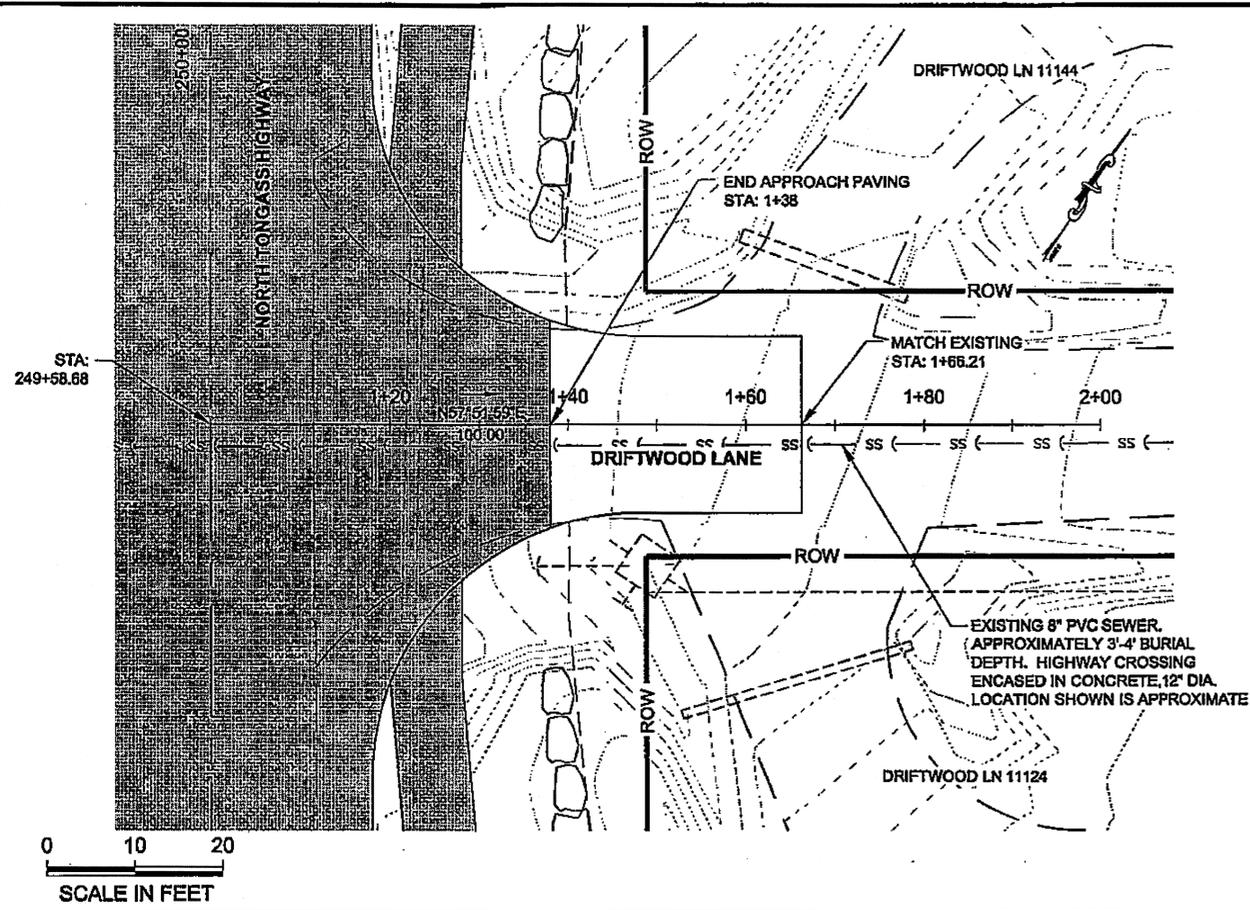
**DW 248+42 LT**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: [Signature] Date: 4/11/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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SCALE IN FEET

0 10 20  
SCALE IN FEET

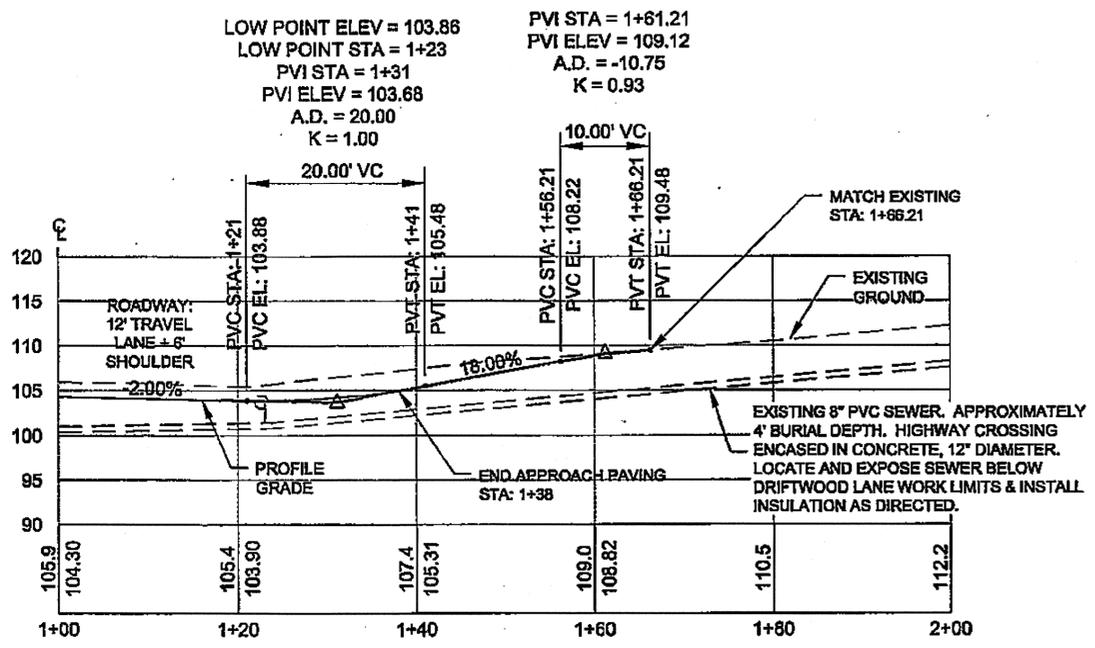


DESIGNED BY: D. LESTER J. WEAVER  
 DRAWN BY: R. GRANTHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY. WARD TO WHIPPLE - STAGE 2 TOTEM BIGHT TO WHIPPLE CREEK**

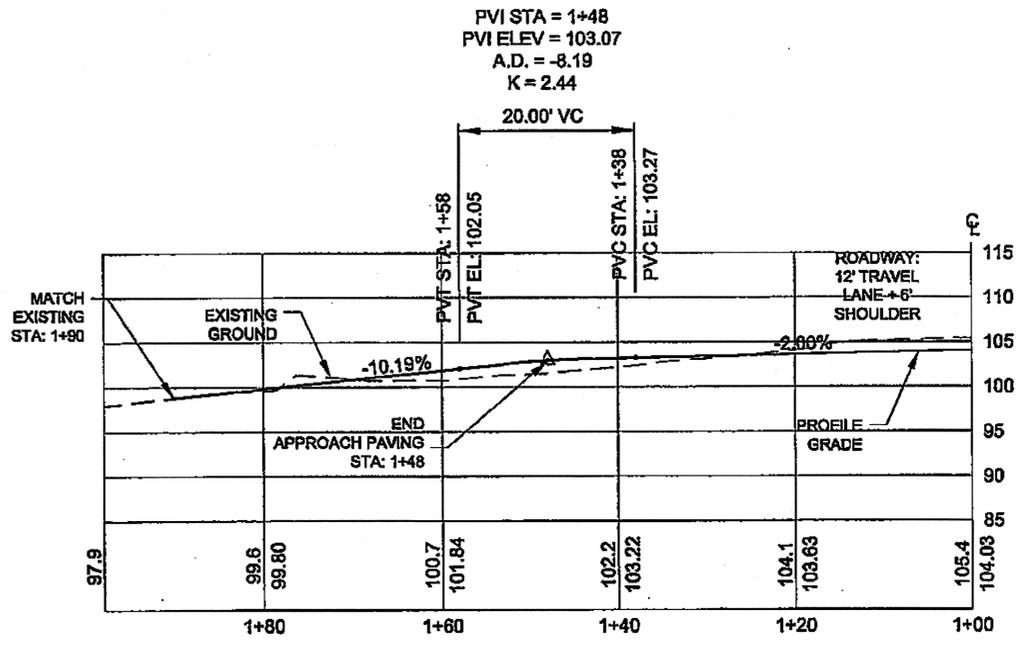
**APPROACH PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>G14</b>	<b>102</b>



**DW 249+58 RT  
 DRIFTWOOD LANE**



**DW 250+11 LT  
 MECCA BAR**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/10/13

PATH: Q:\KTN\7443\PLANSET\7443\_G1-G20 APPROACH P&P.DWG

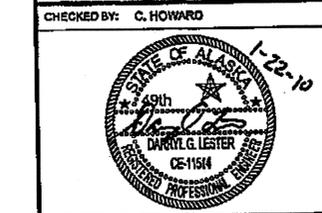
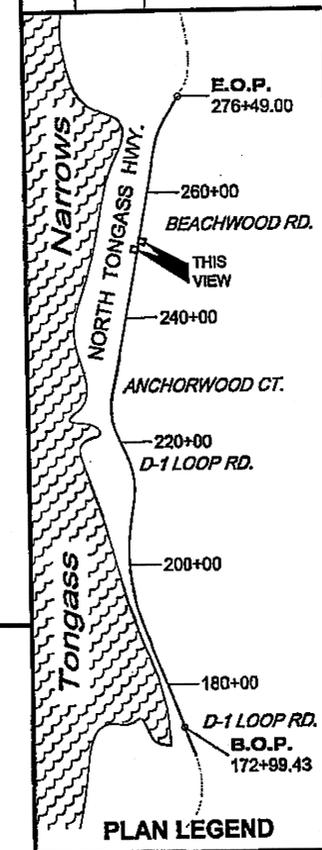
TAB: G15 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

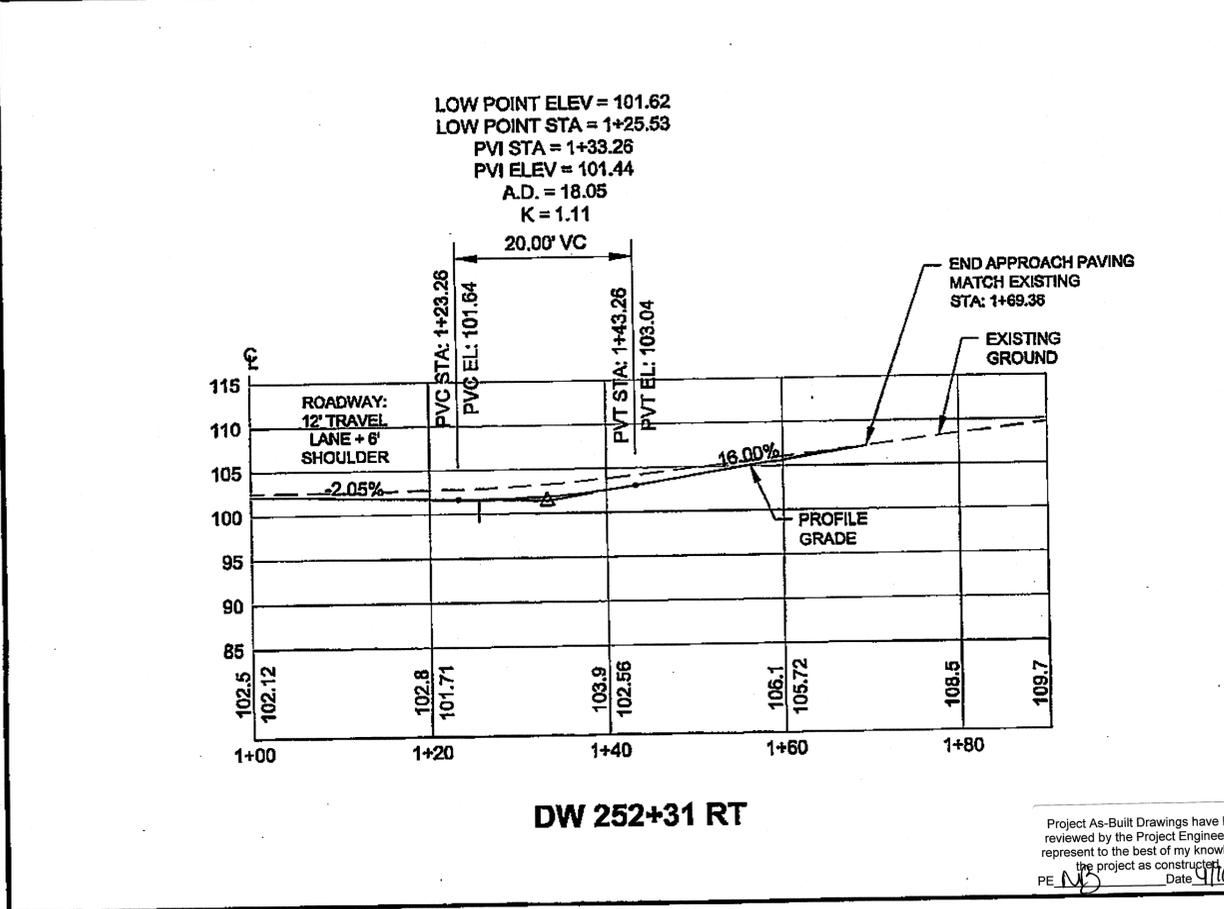
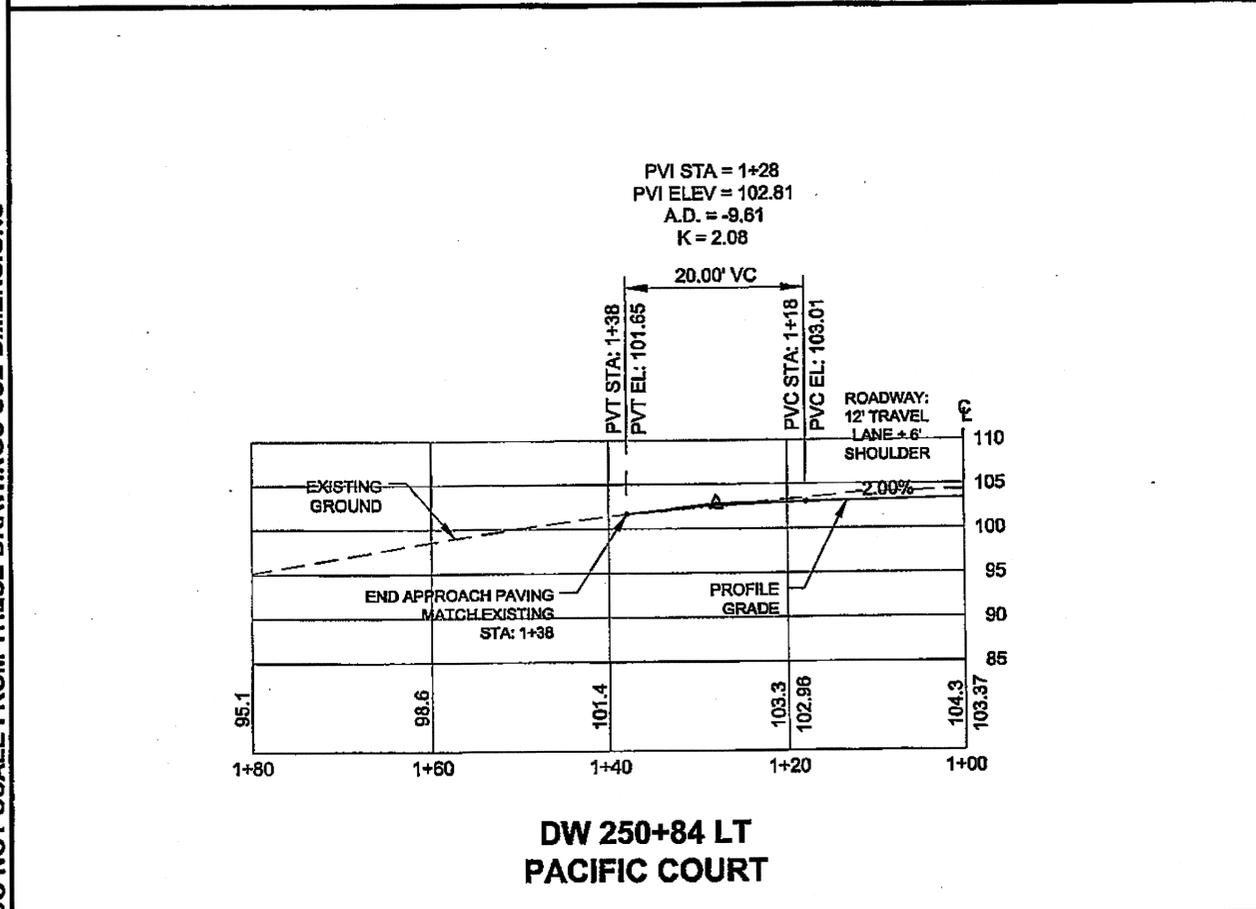
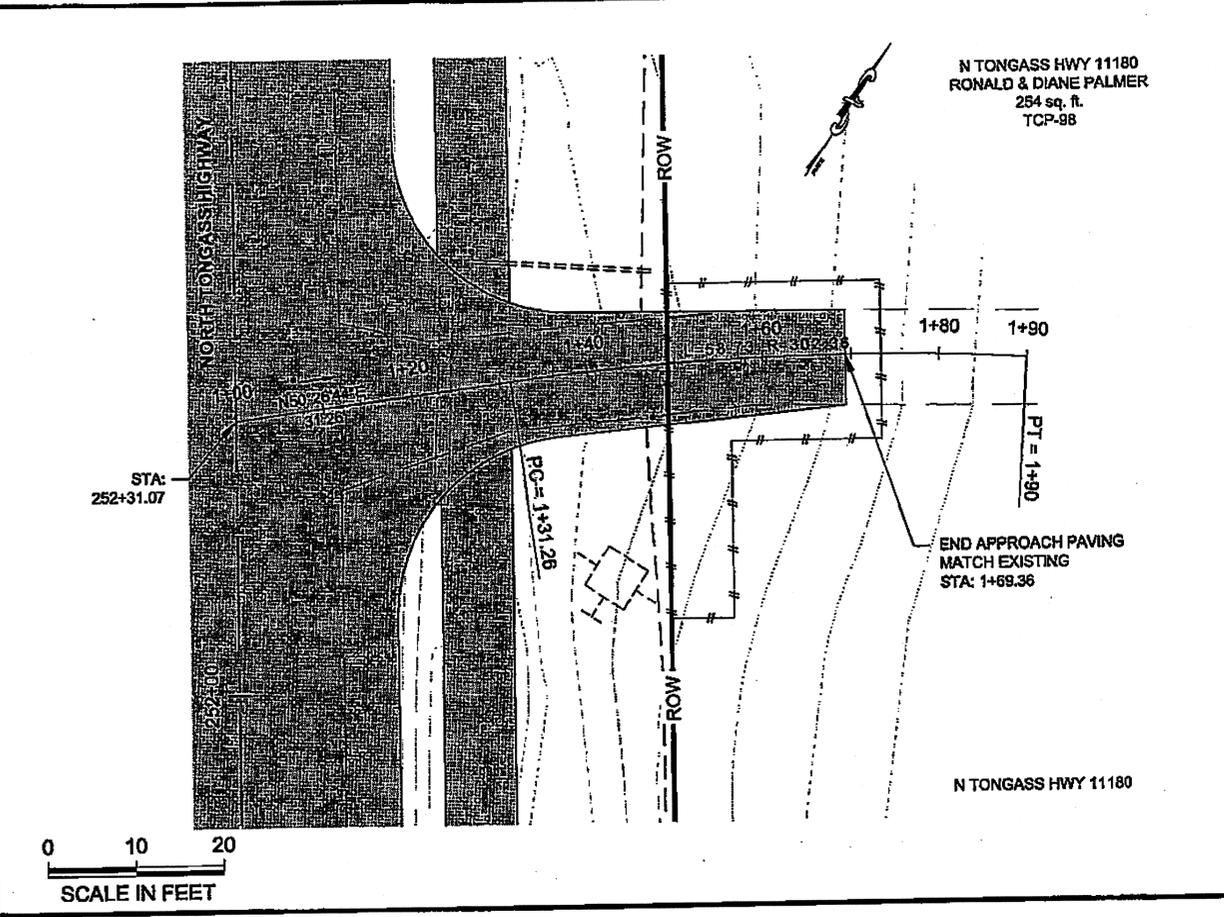
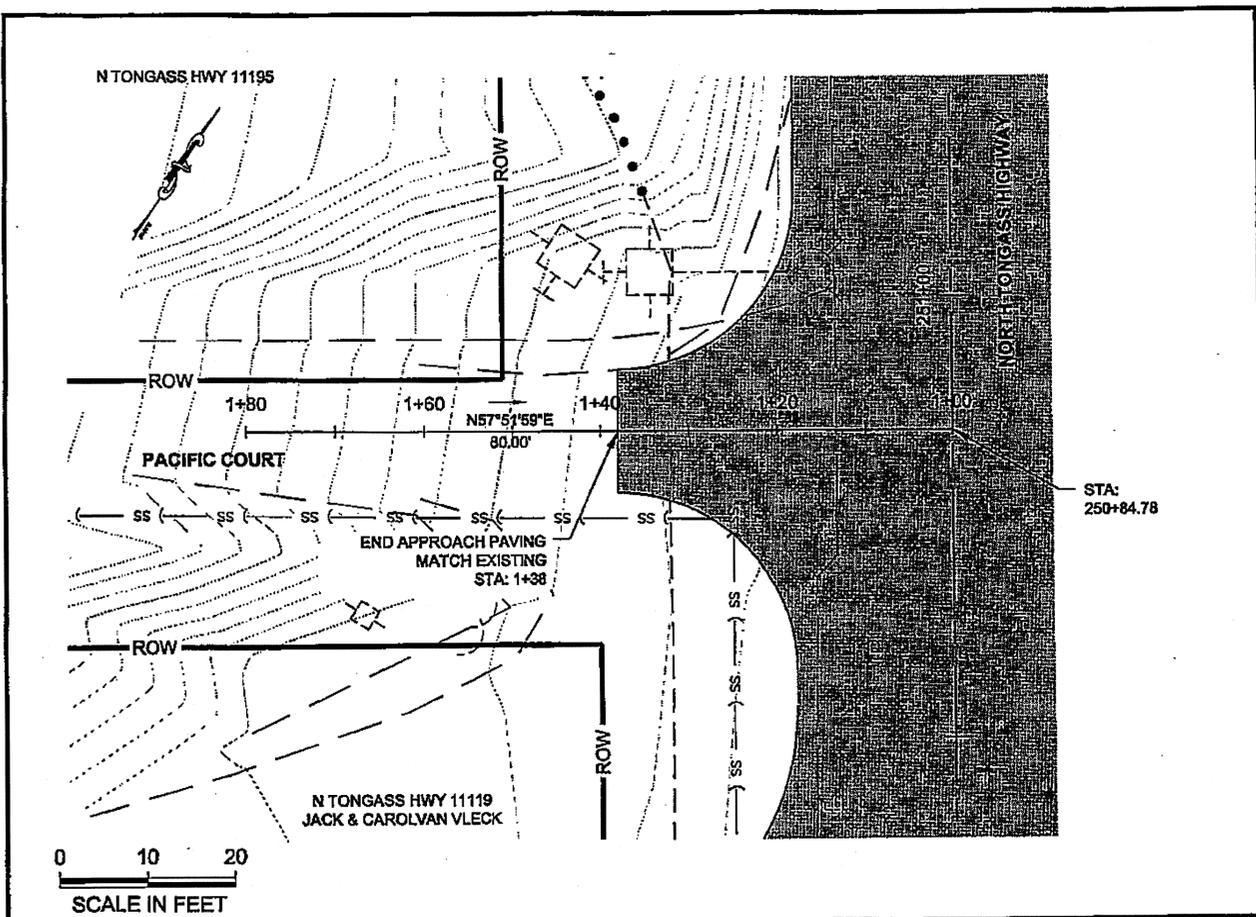
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**APPROACH PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

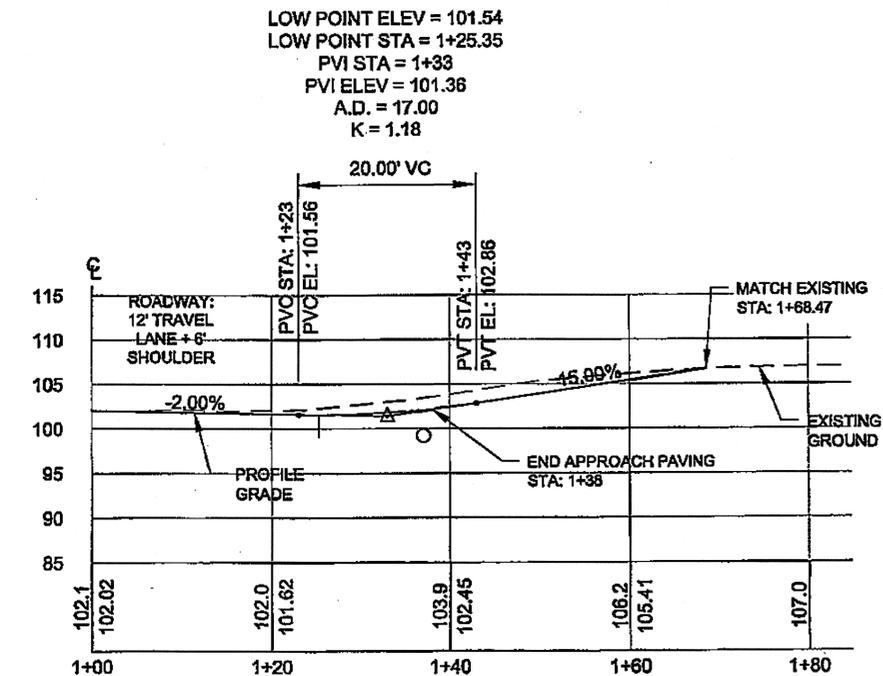
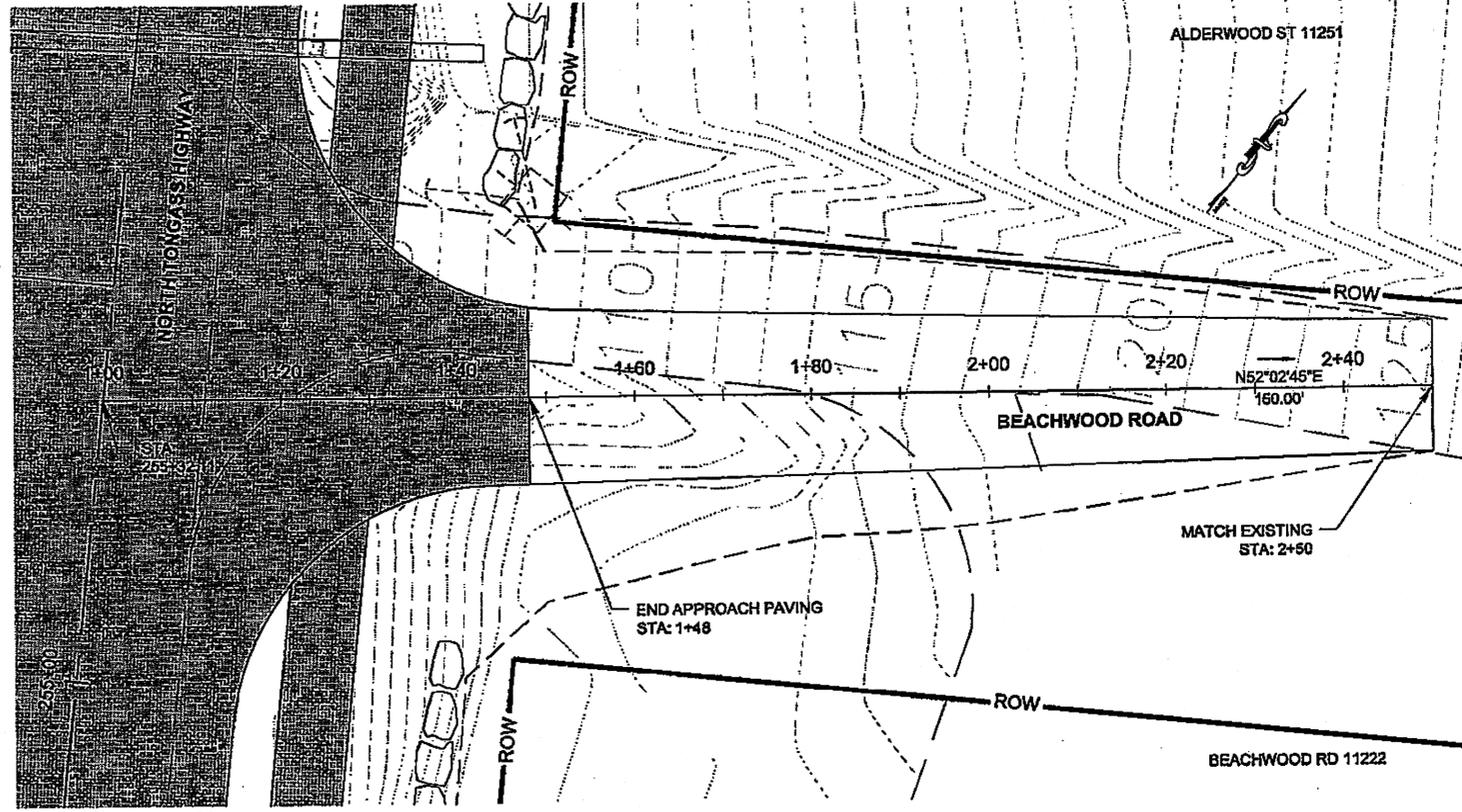
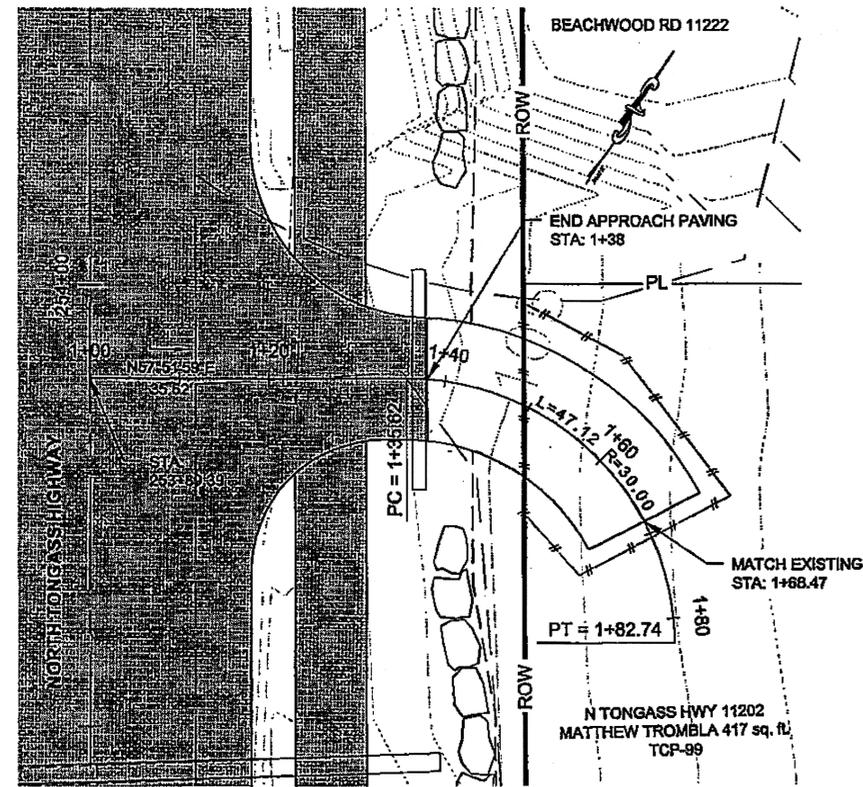
STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>G15</b>	<b>102</b>



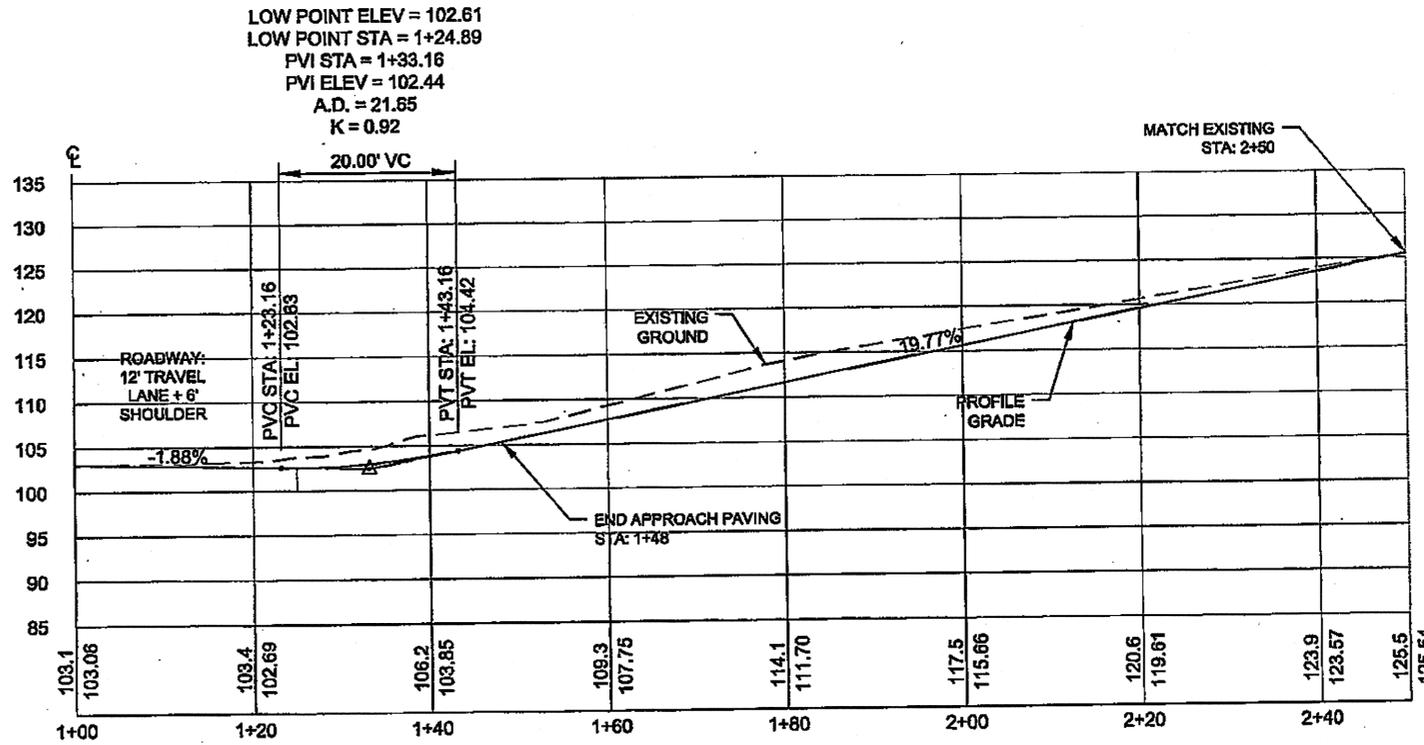
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *MD* Date: 9/16/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



DW 253+89 RT



DW 255+32 RT  
BEACHWOOD RD

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *NS* Date: 4/16/13

PATH: Q:\KTM67443\PLANS\17443\_G1-G20 APPROACH P&P.DWG

TAB: G16 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

E.O.P. 276+49.00

260+00

BEACHWOOD RD.

THIS VIEW

240+00

ANCHORWOOD CT.

220+00

D-1 LOOP RD.

200+00

180+00

D-1 LOOP RD.

B.O.P. 172+99.43

PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA  
1-22-10  
Professional Engineer  
DARRYL G. LESTER  
CE-11514

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

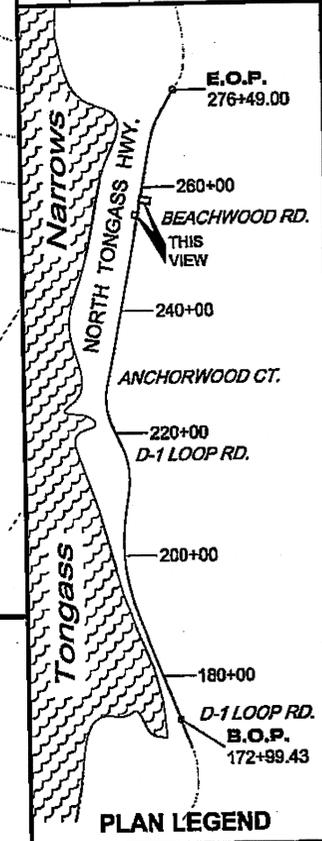
KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**APPROACH PLAN & PROFILE**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G16	102

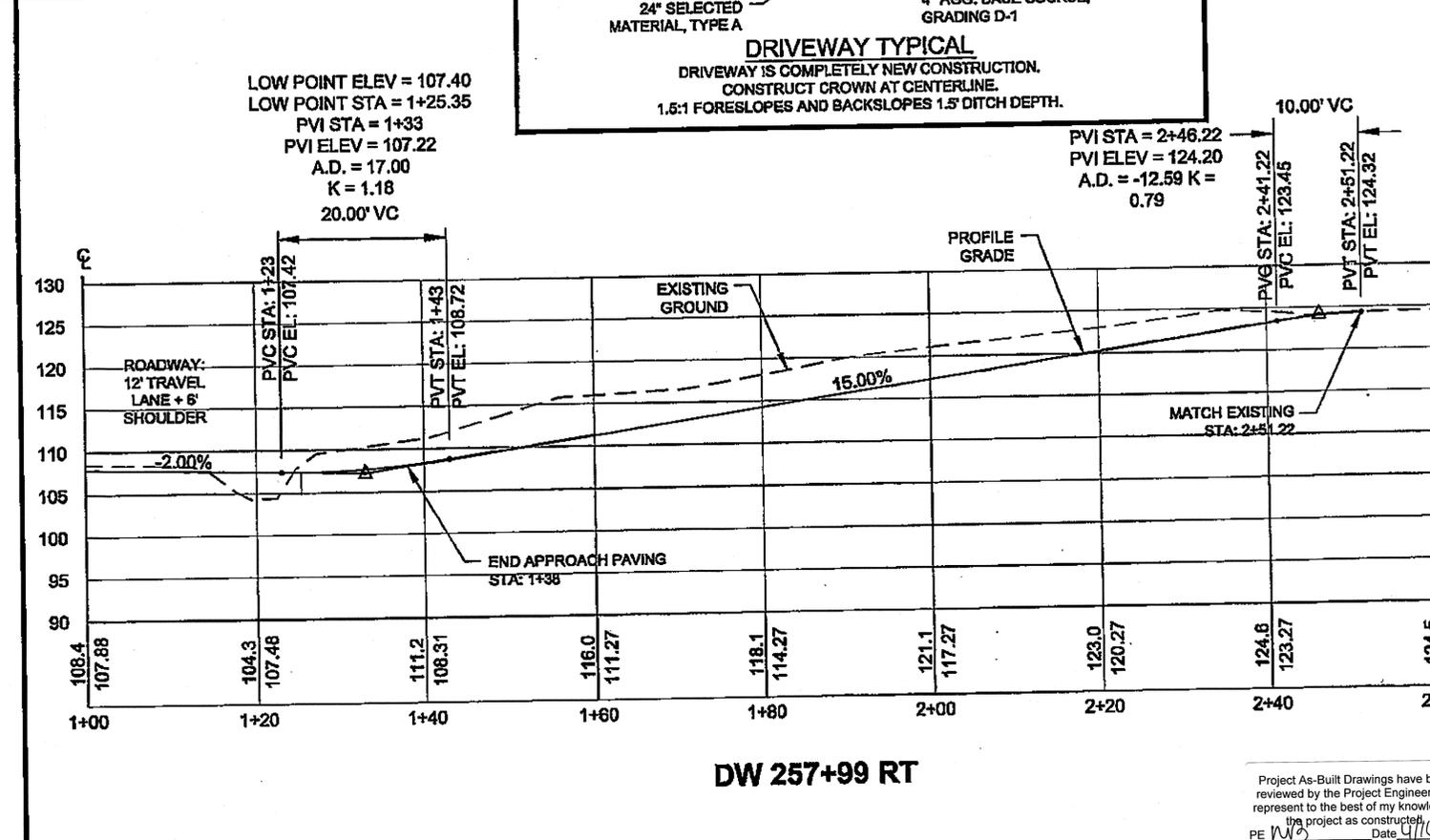
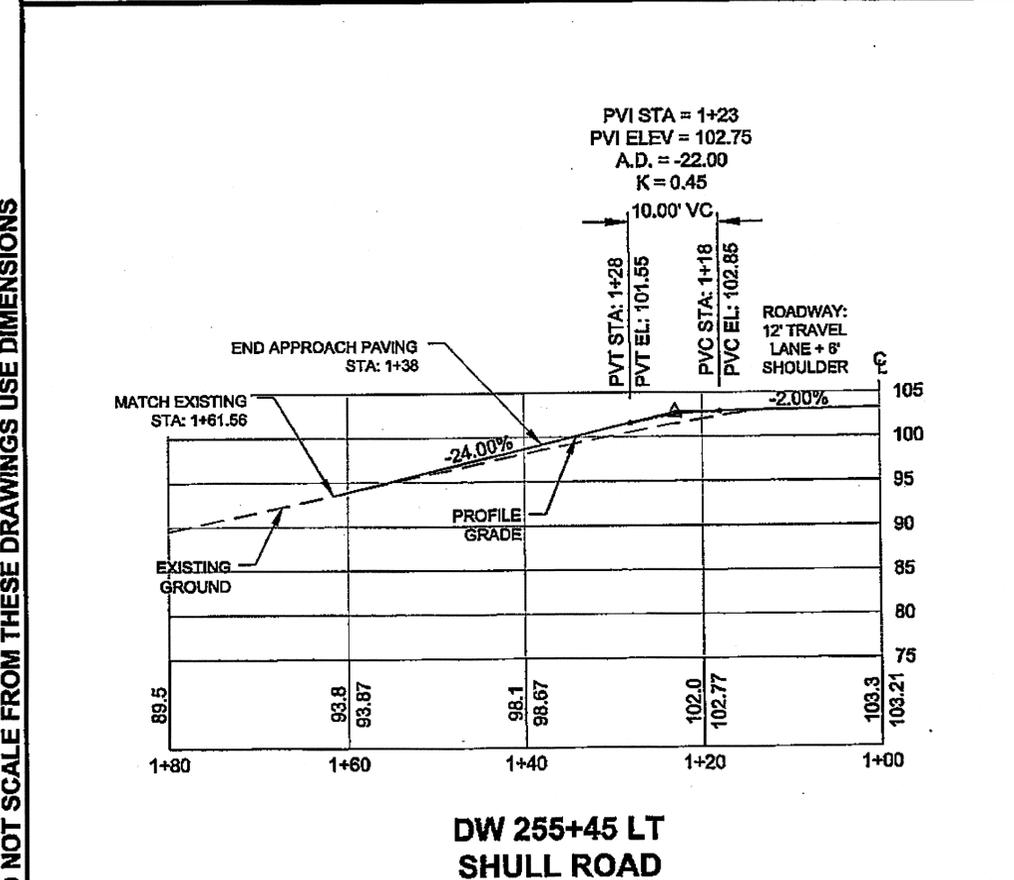
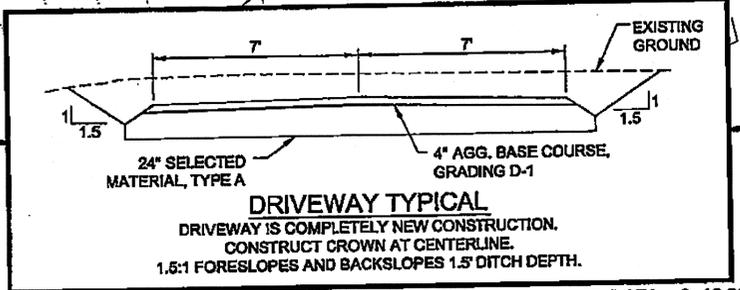
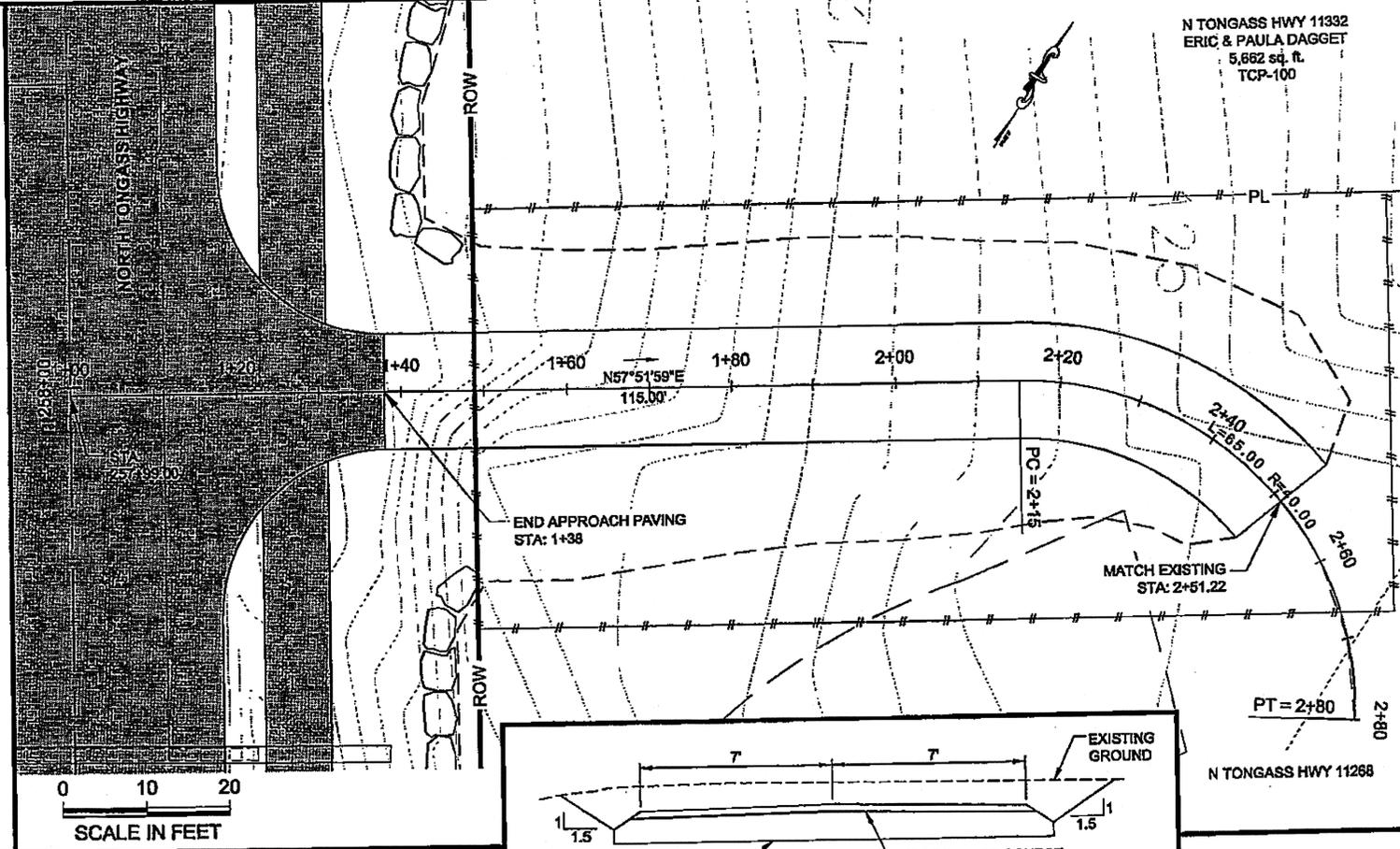
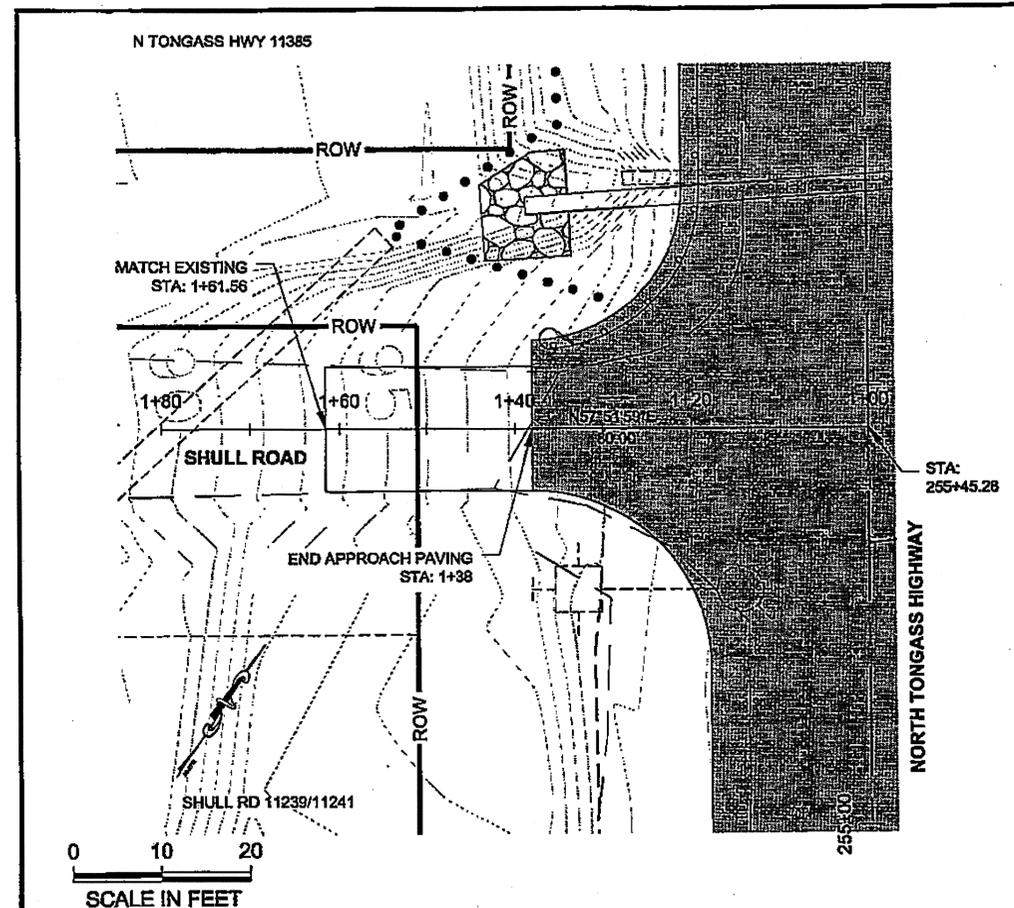
TAB: G17	GRANTHAM, RICK L (DOT)	
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
DRAWN BY: R. GRANTHAM  
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION  
KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

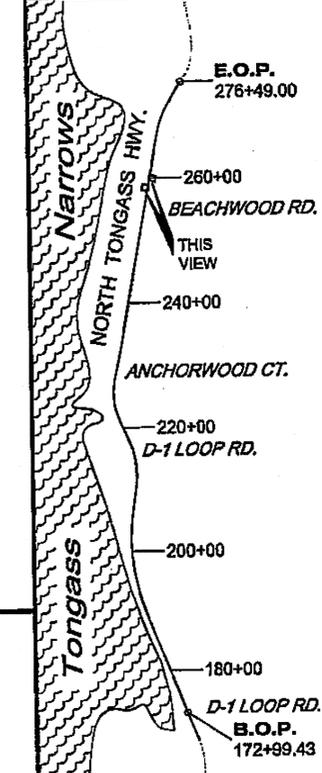
PROJECT DESIGNATION	
NH-ARA-0920(25) - 67443	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G17	102



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: WJD Date: 4/16/13

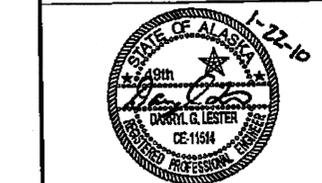
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

TAB: G18	GRANTHAM, RICK L (DOT)	
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**PLAN LEGEND**

CHECKED BY: C. HOWARD



DESIGNED BY: D. LESTER-J. WEAVER  
DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

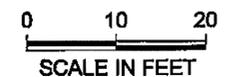
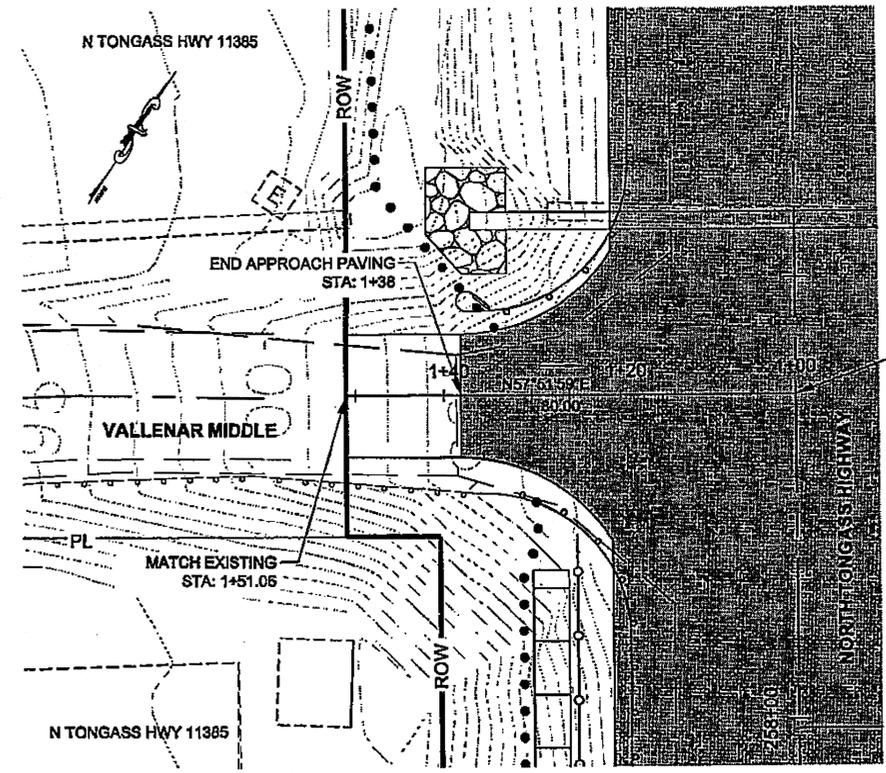
**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

**APPROACH  
PLAN & PROFILE**

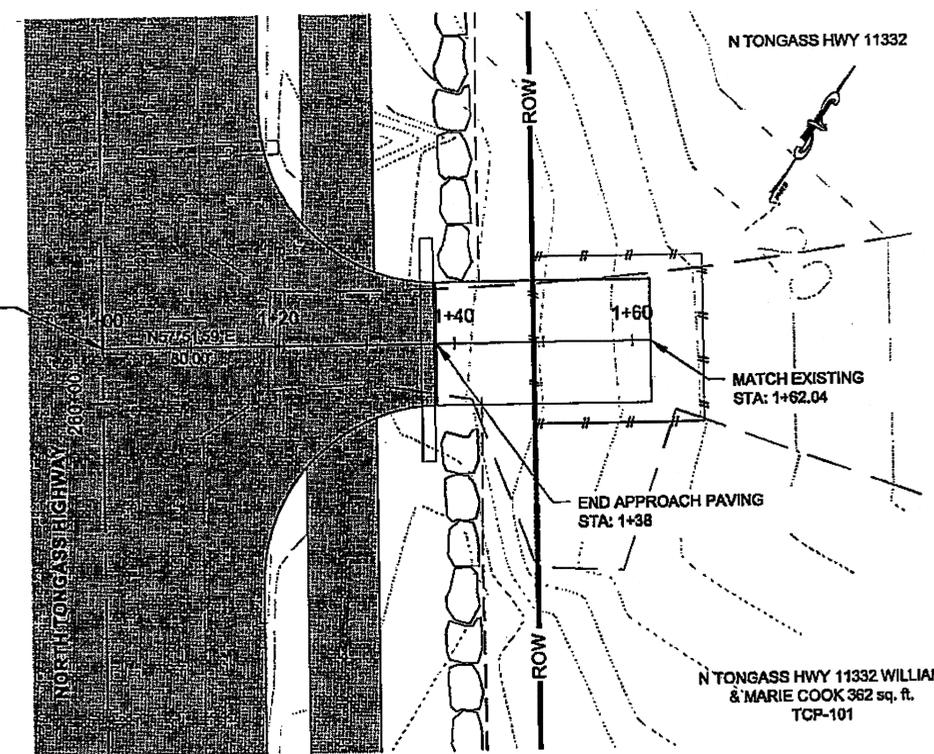
PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>G18</b>	<b>102</b>

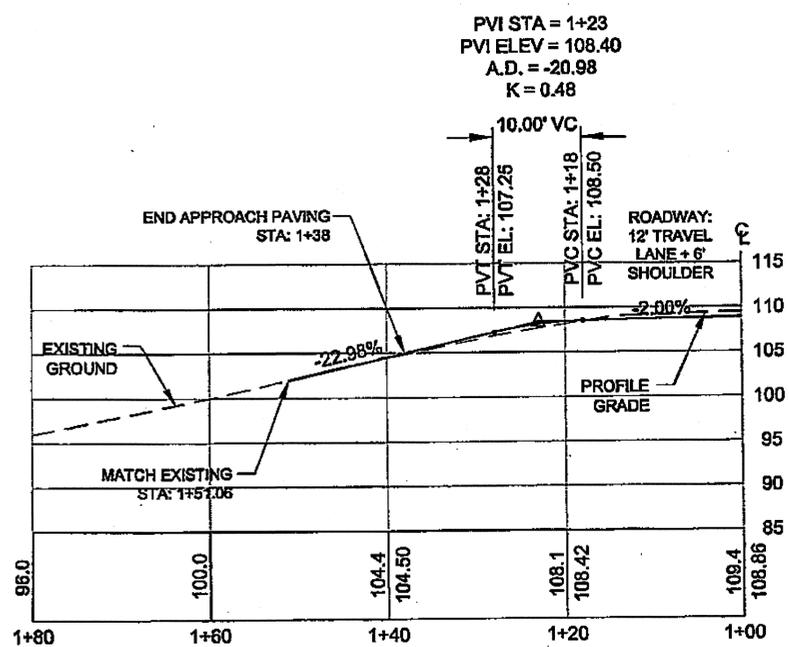
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed. Date: 9/11/13  
PE: *WBS*



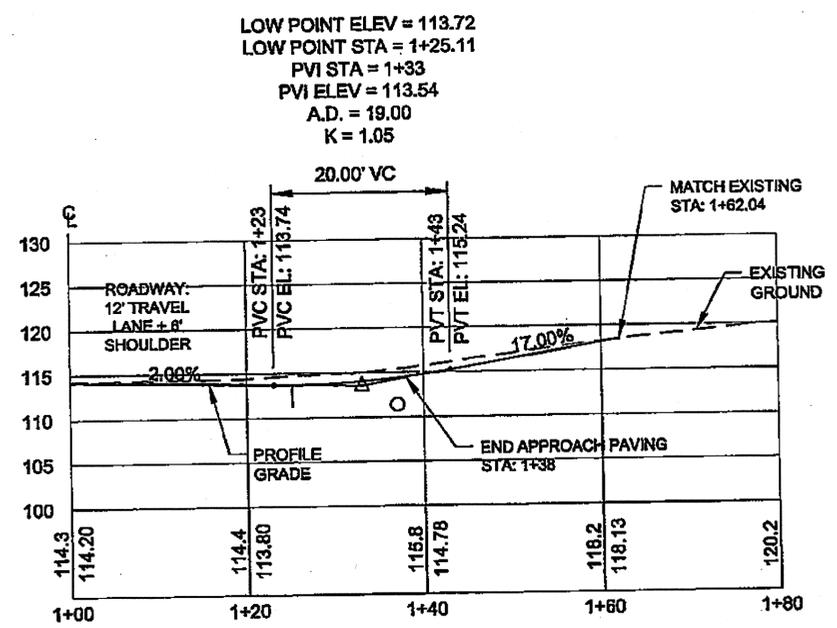
STA: 258+36.70



STA: 260+06.24



**DW 258+36 LT  
VALLENAR MIDDLE**



**DW 260+06 RT**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTM67443\PLANS\SET67443\_01-020 APPROACH P&P.DWG

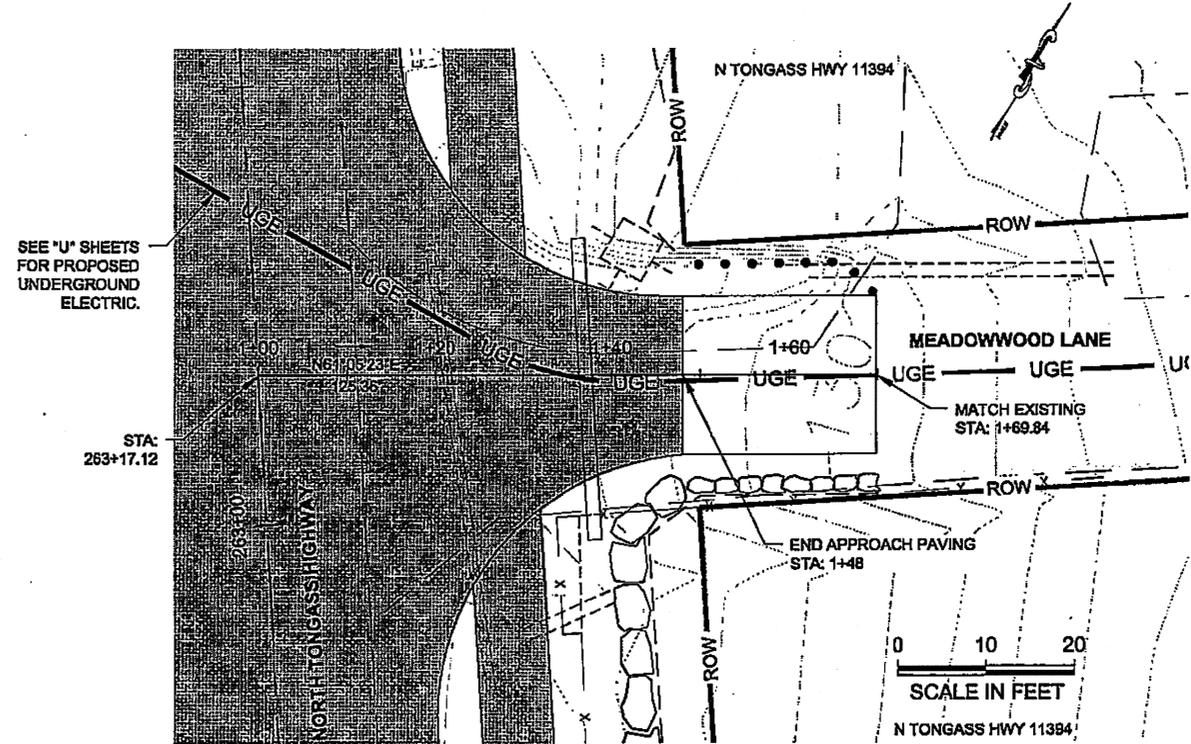
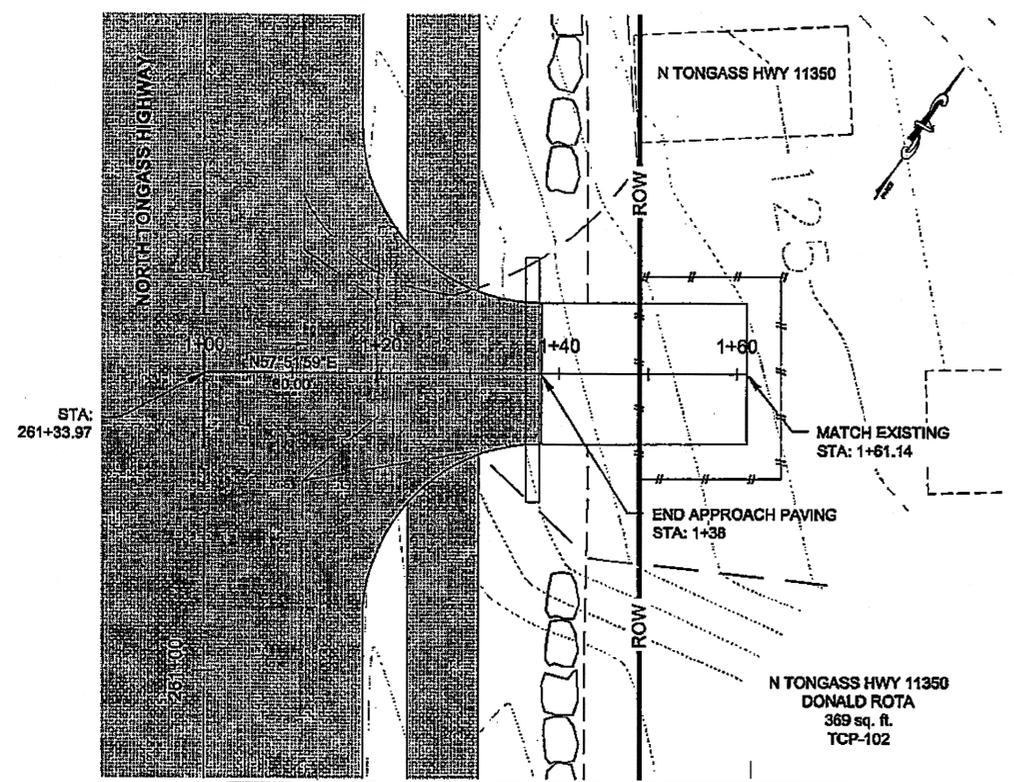
TAB: G19 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

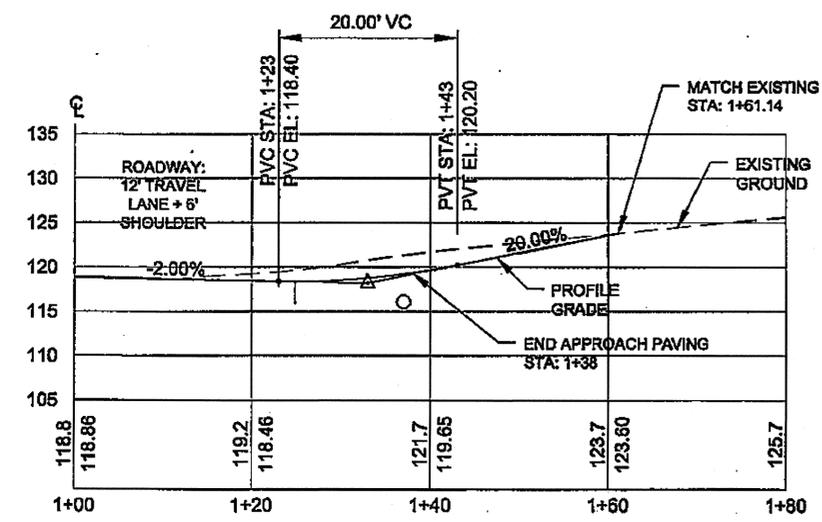
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

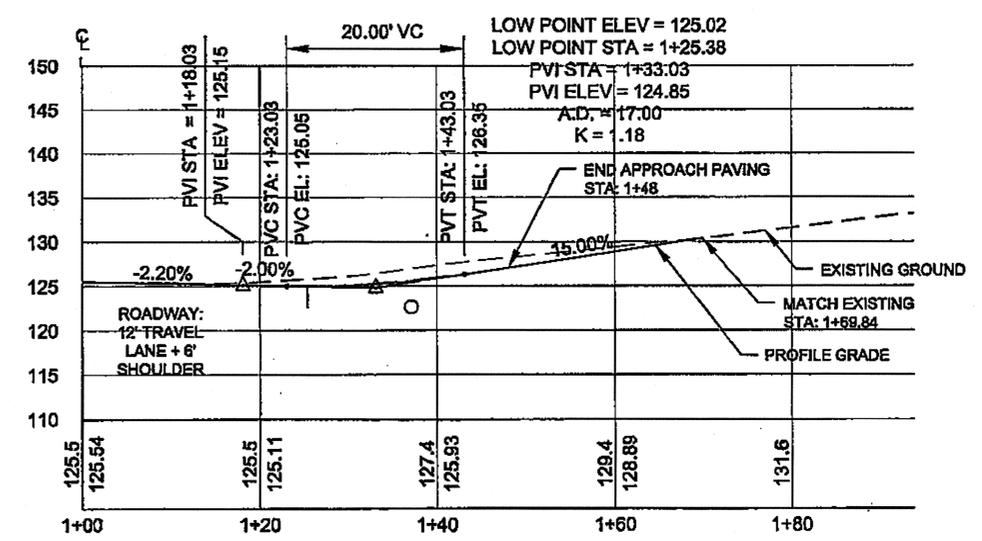
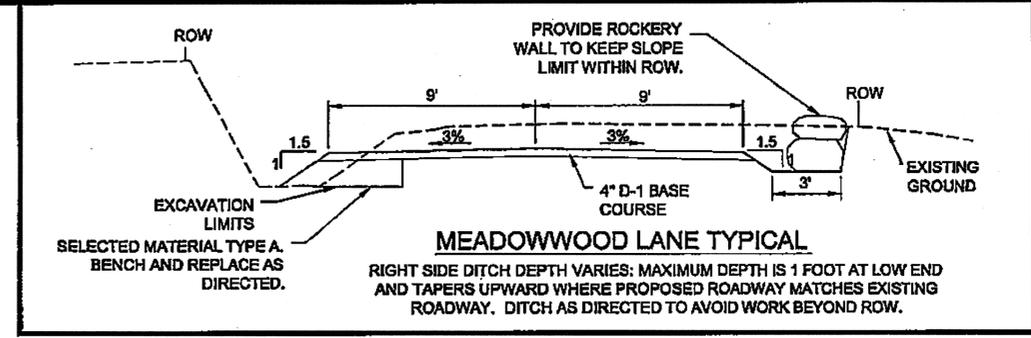


**PRIOR TO DRIVEWAY CONSTRUCTION, CONTRACTOR SHALL VERIFY WITH THE ENGINEER THAT A SIGNED TEMPORARY CONSTRUCTION PERMIT HAS BEEN OBTAINED. NO CONSTRUCTION SHALL BE ALLOWED OUTSIDE THE RIGHT OF WAY WITHOUT A SIGNED TEMPORARY CONSTRUCTION PERMIT.**

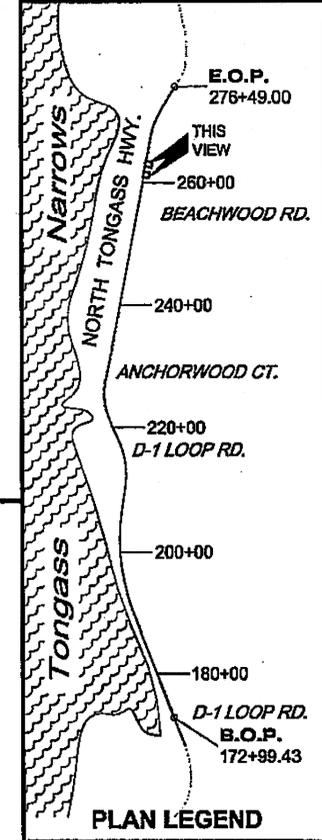
LOW POINT ELEV = 118.38  
 LOW POINT STA = 1+24.82  
 PVI STA = 1+33  
 PVI ELEV = 118.20  
 A.D. = 22.00  
 K = 0.91



DW 261+34 RT



DW 263+17 RT  
 MEADOWWOOD LANE



CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**APPROACH PLAN & PROFILE**

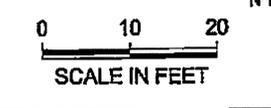
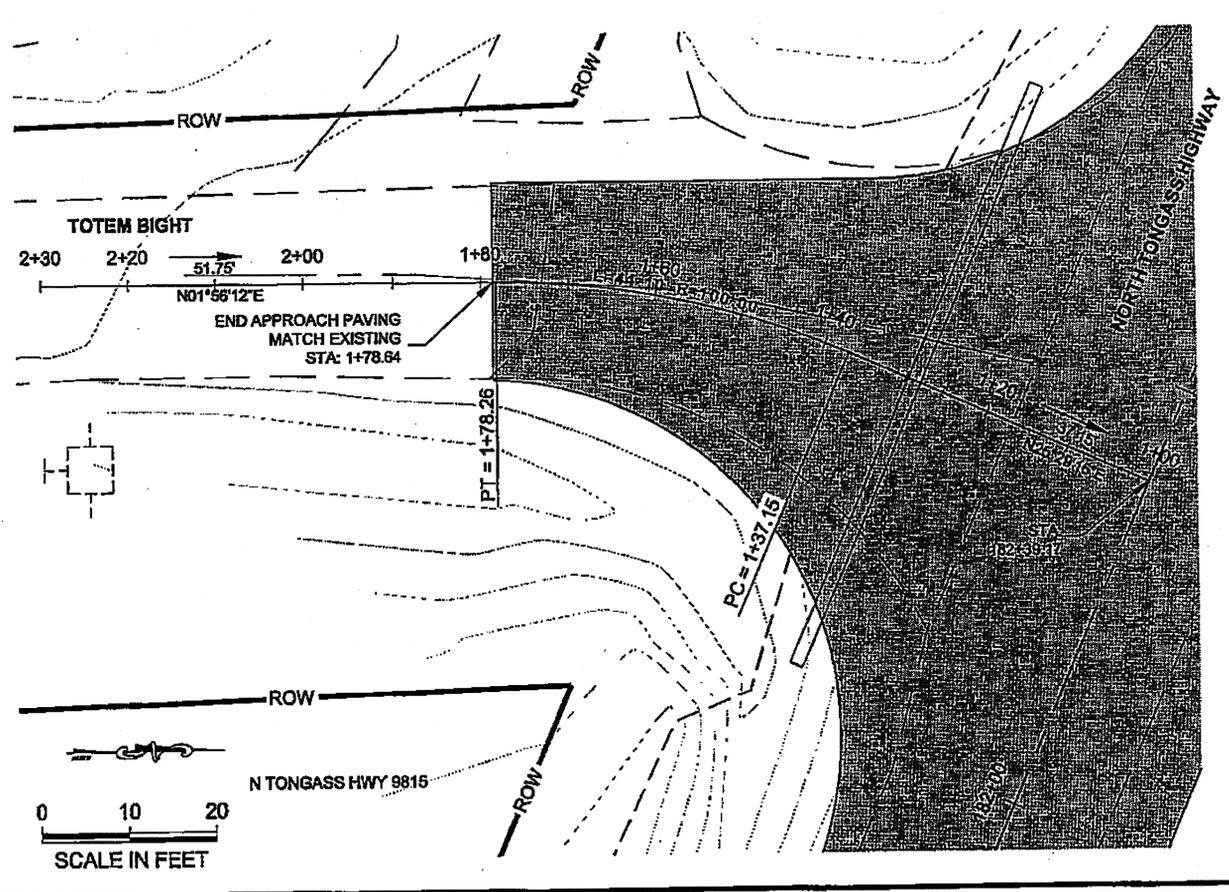
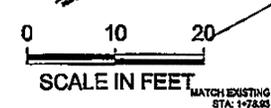
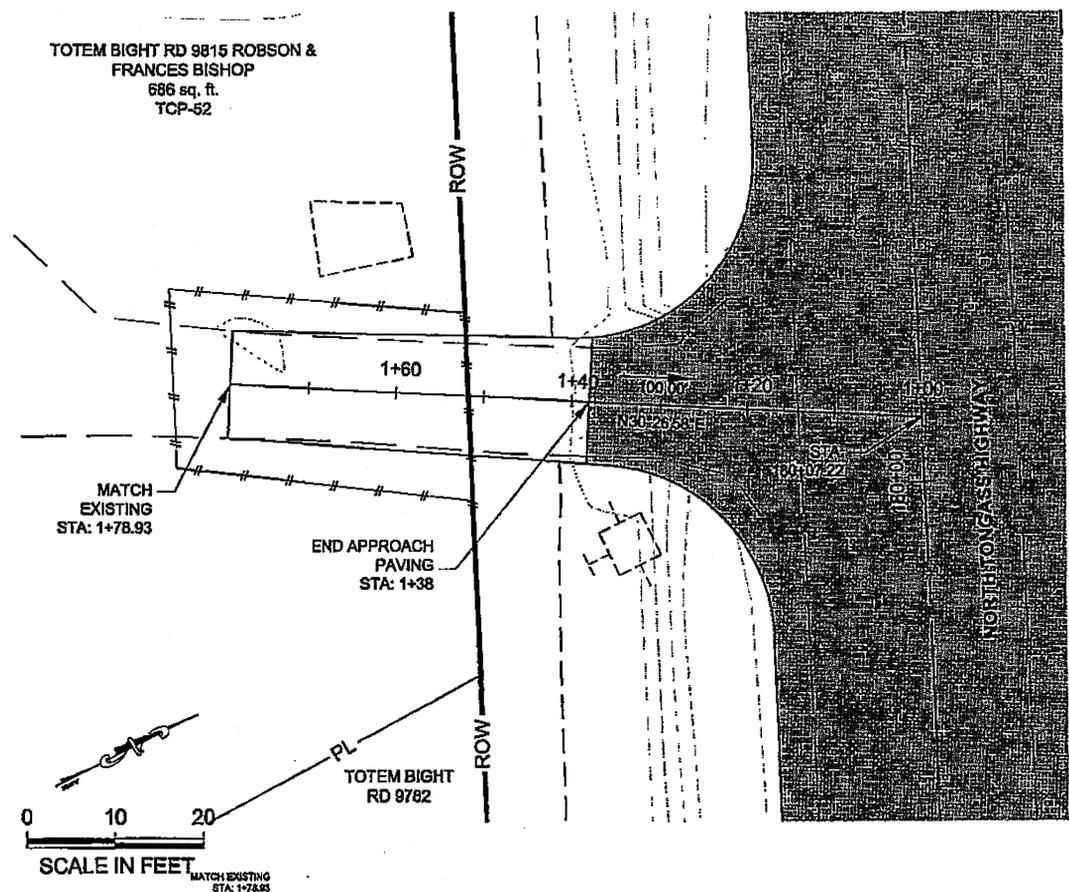
PROJECT DESIGNATION

NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G19	102

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/16/13



PATH: Q:\CTN\67443\PLANS\167443\_G1-G20 APPROACH P&P.DWG

TAB: G2 GRANTHAM, RICK L (DOT)

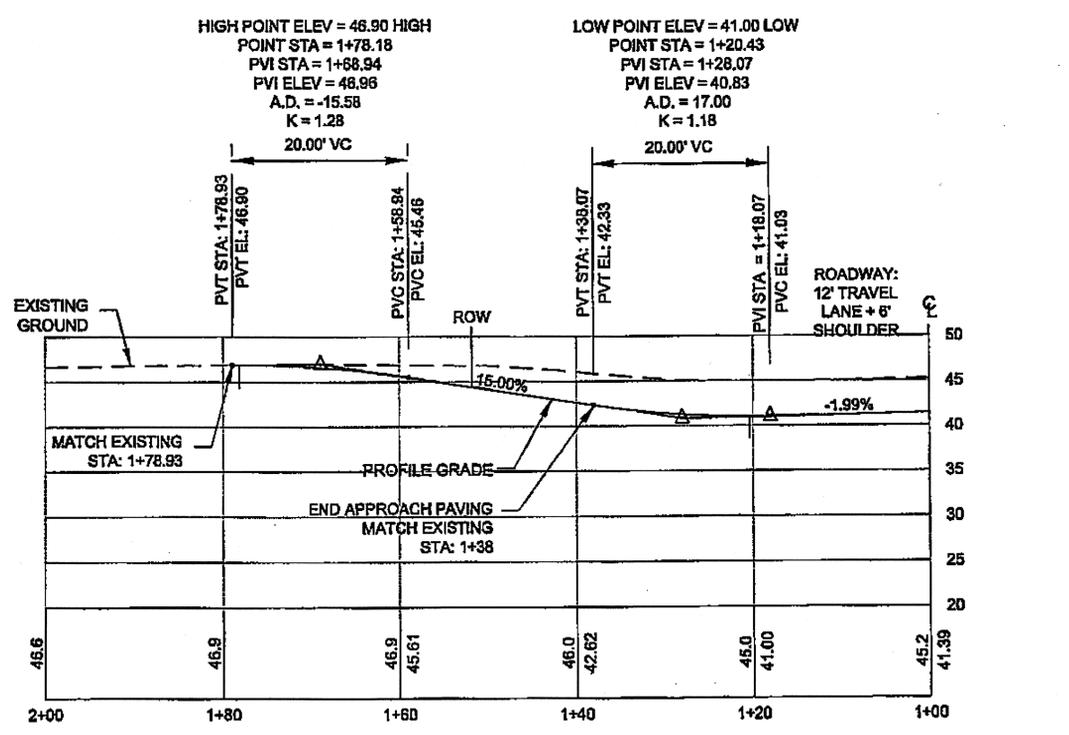
ADDENDUM NUMBER

ATTACHMENT NUMBER

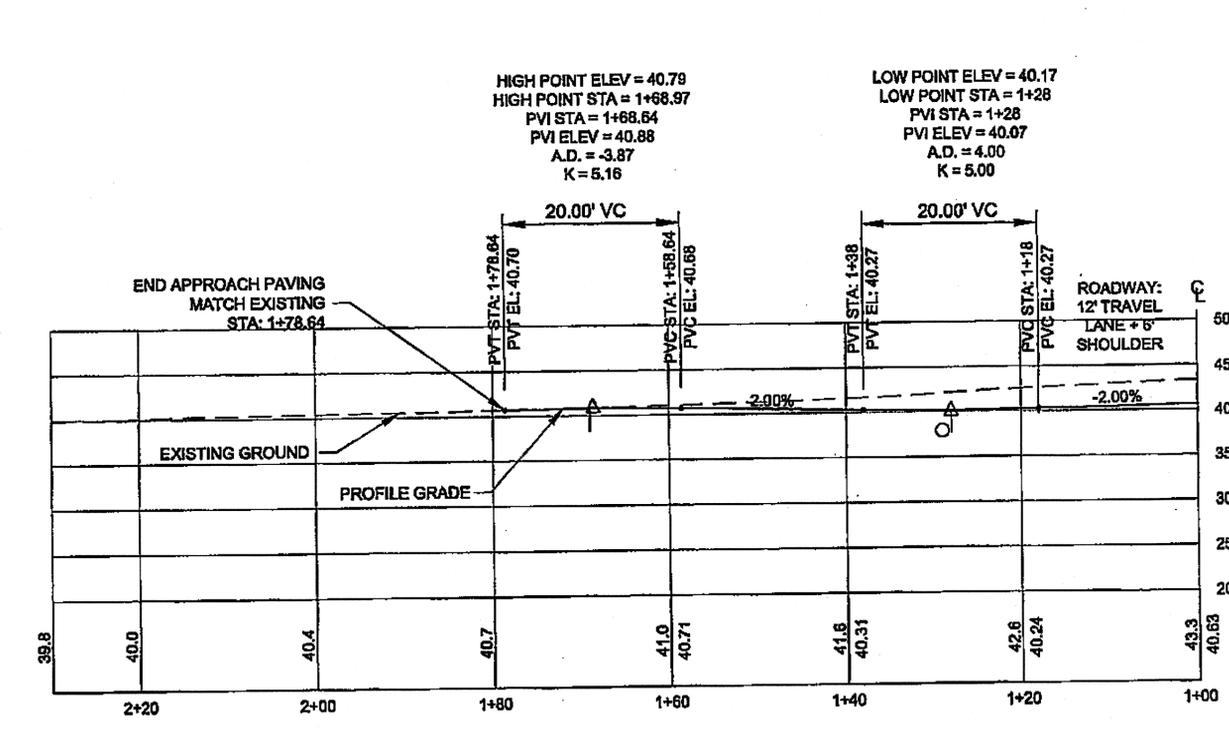
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: C. HOWARD



DW 180+07 LT



DW 182+39 LT  
TOTEM BIGHT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE *WJ* Date 11/15/13

1-22-10

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

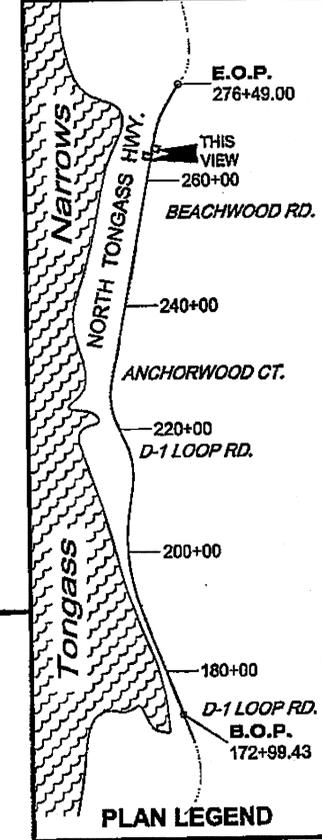
**APPROACH  
PLAN & PROFILE**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
G2	102

TAB: G20	GRANTHAM, RICK L (DOT)	
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



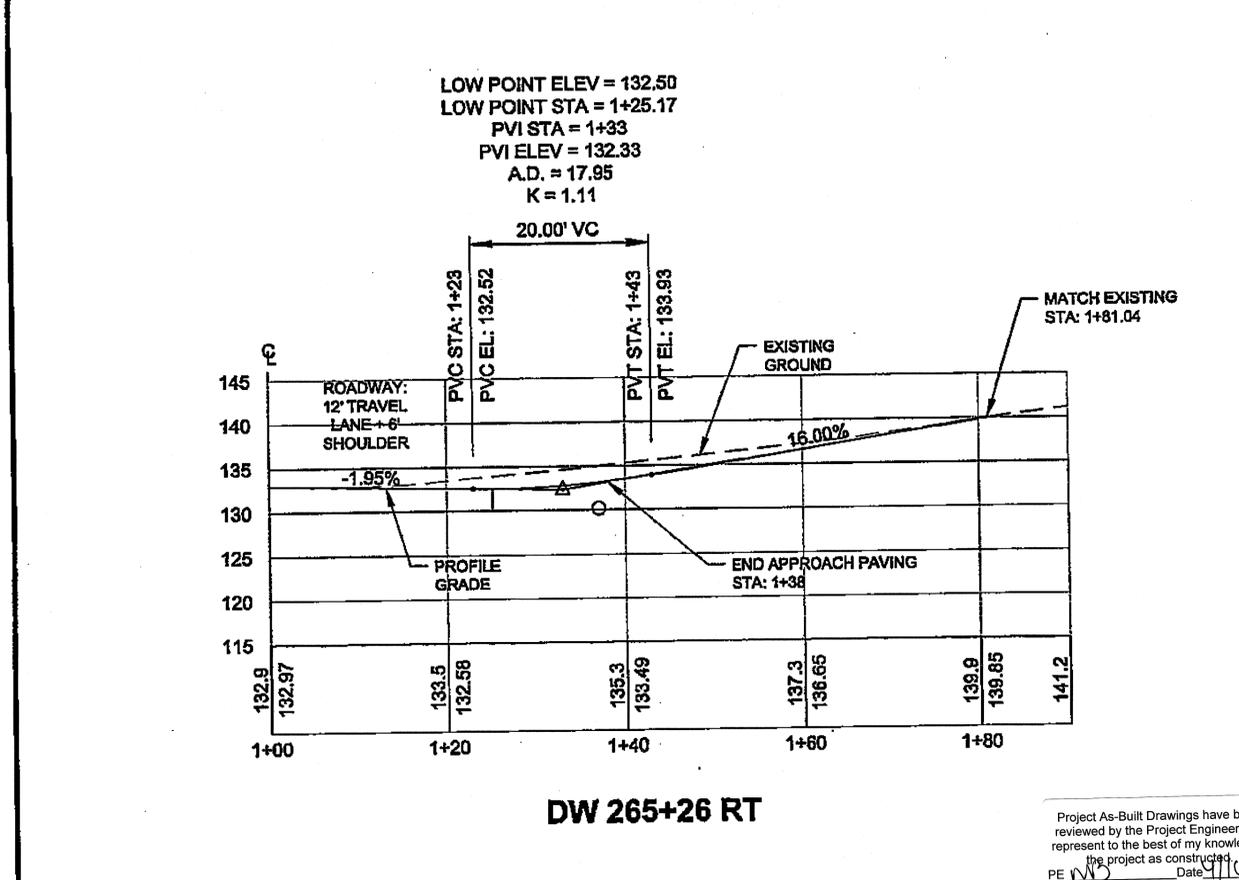
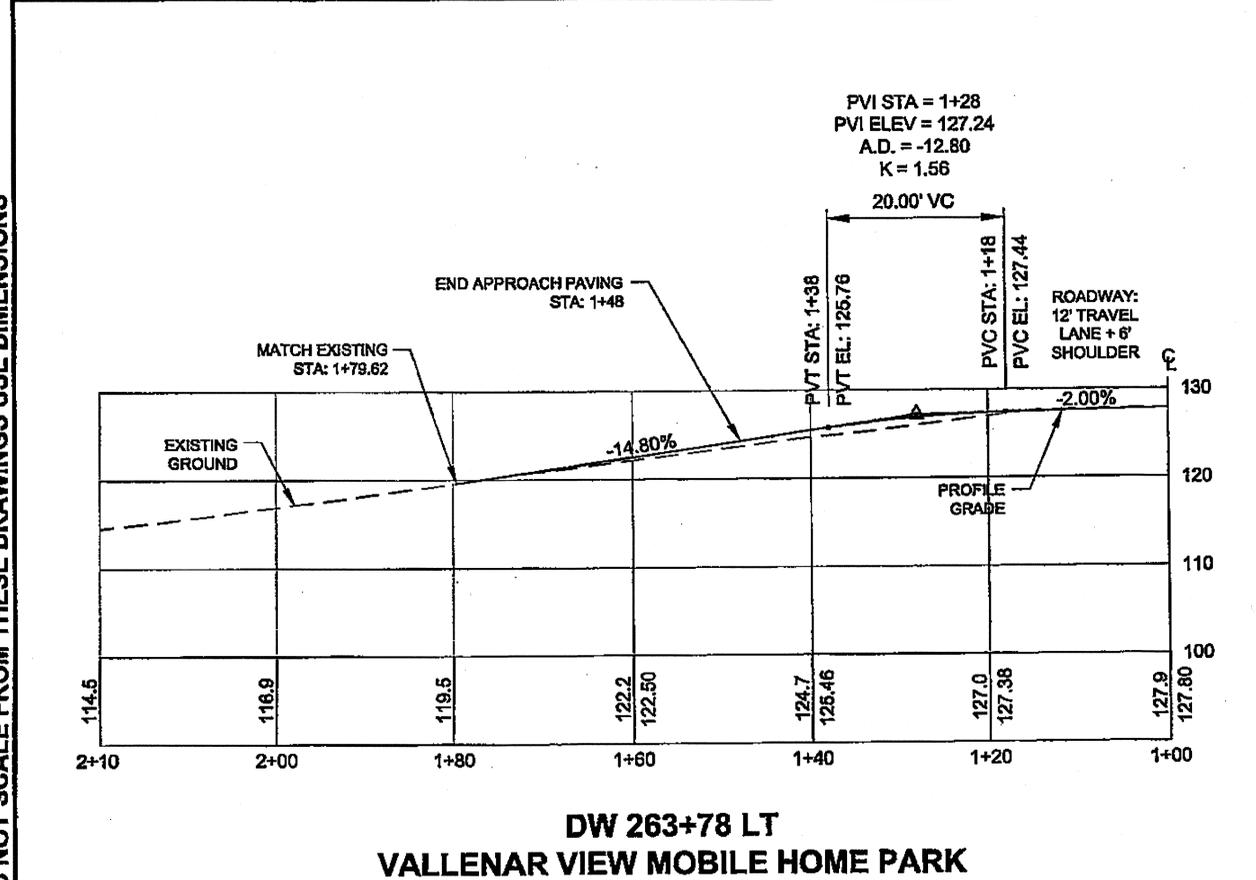
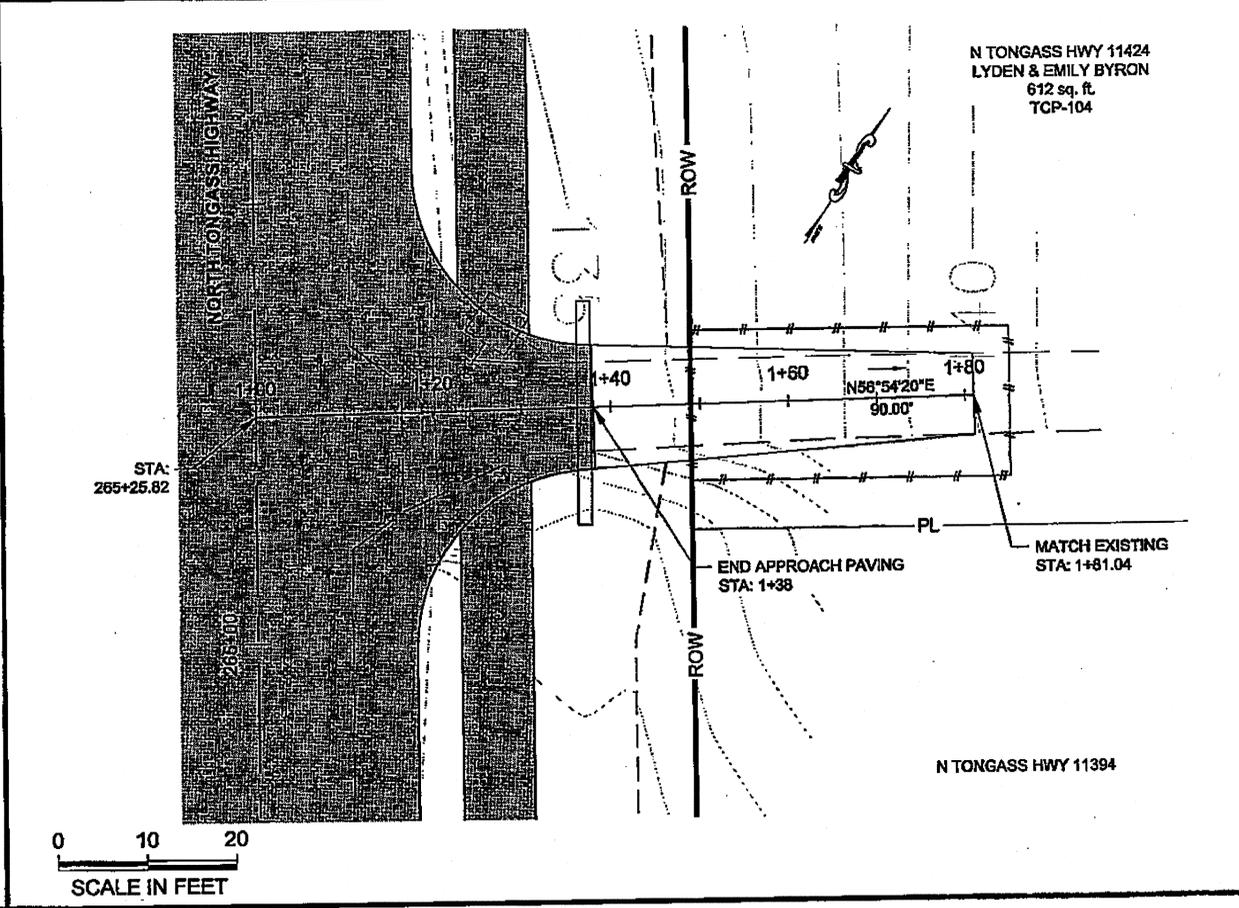
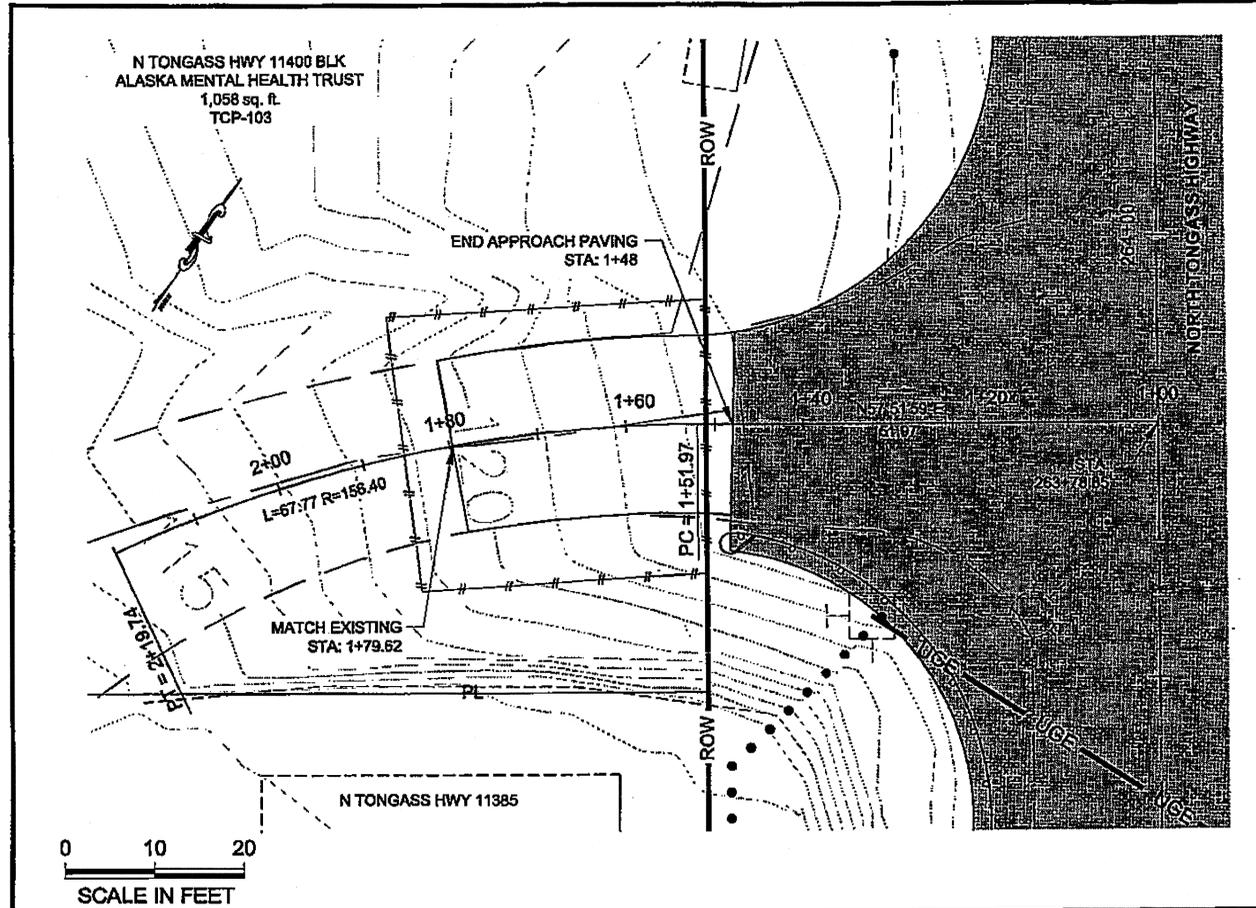
CHECKED BY: C. HOWARD



DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY. WARD TO WHIPPLE - STAGE 2 TOTEM BIGHT TO WHIPPLE CREEK**

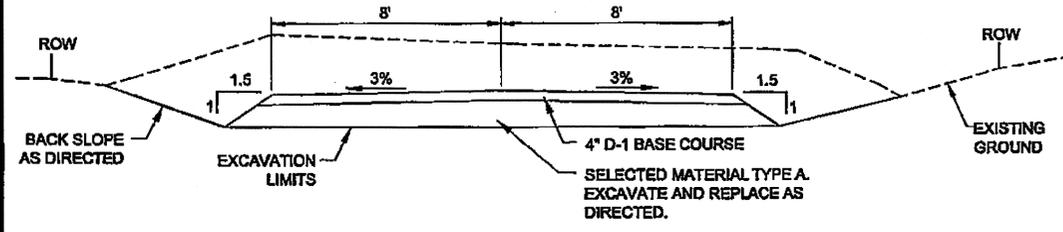
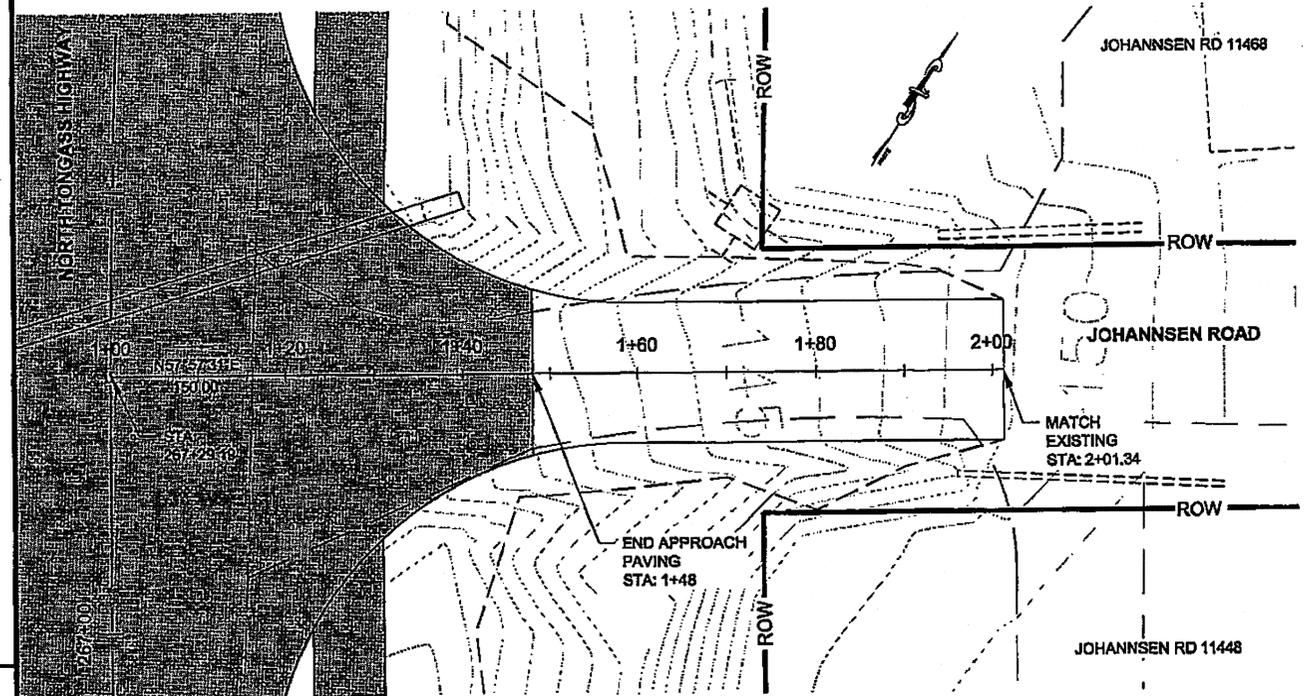
<b>APPROACH PLAN &amp; PROFILE</b>	
PROJECT DESIGNATION	
NH-ARA-0920(25) - 67443	
STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>G20</b>	<b>102</b>

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *NS* Date: 1/16/13

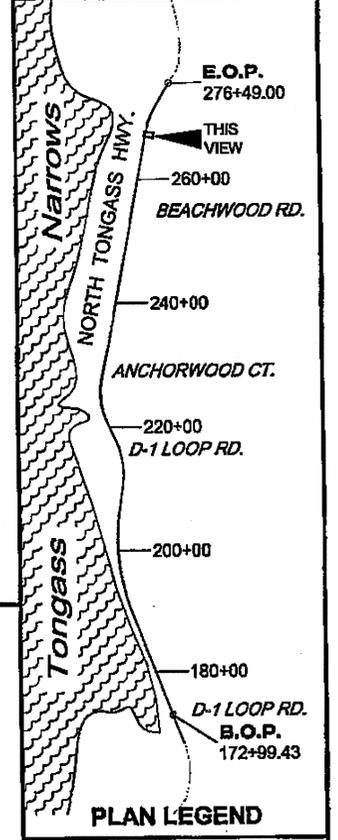


DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

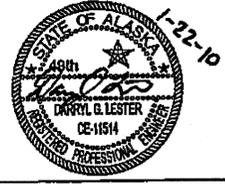
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**JOHANNSEN LANE TYPICAL**  
 DITCH DEPTH VARIES: MAXIMUM DEPTH IS 1 FOOT AT LOW END AND TAPERS UPWARD WHERE PROPOSED ROADWAY MATCHES EXISTING ROADWAY. DITCH AS DIRECTED TO AVOID WORK BEYOND ROW.



CHECKED BY: C. HOWARD



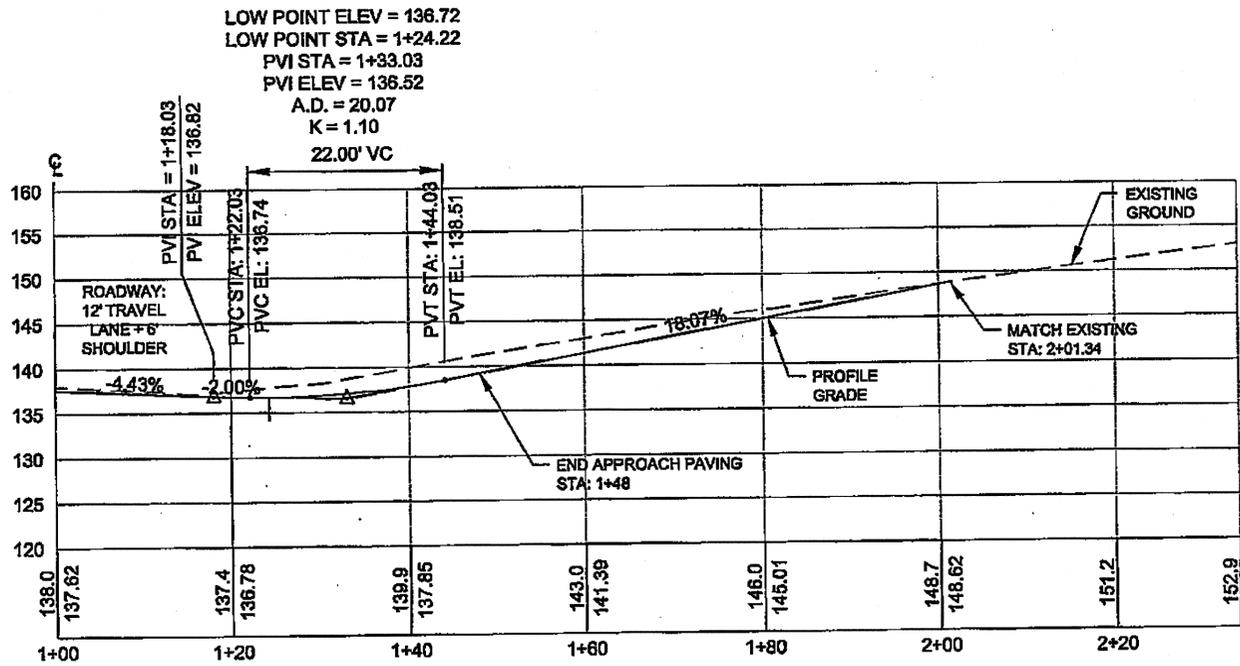
DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**APPROACH  
 PLAN & PROFILE**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G21	102

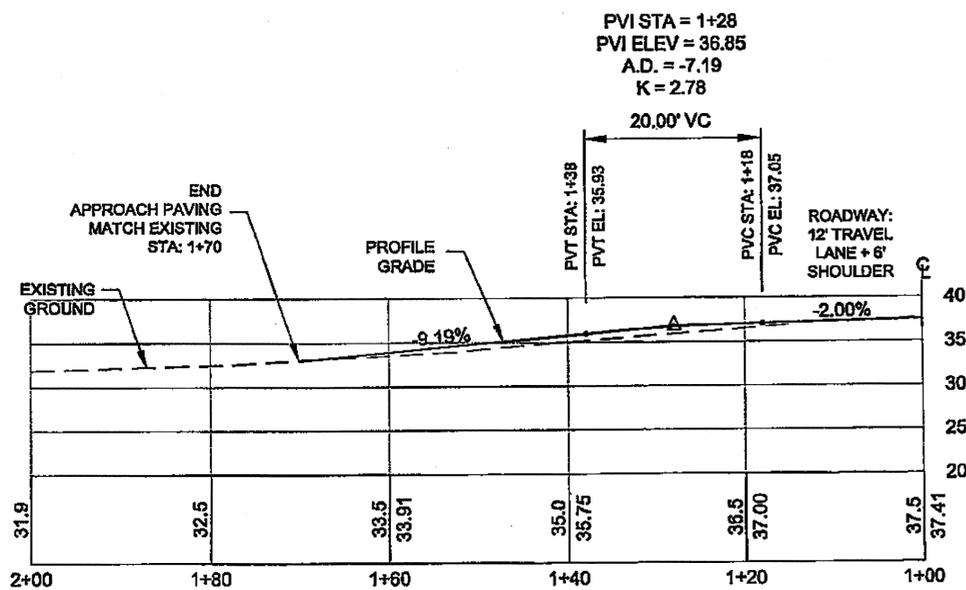
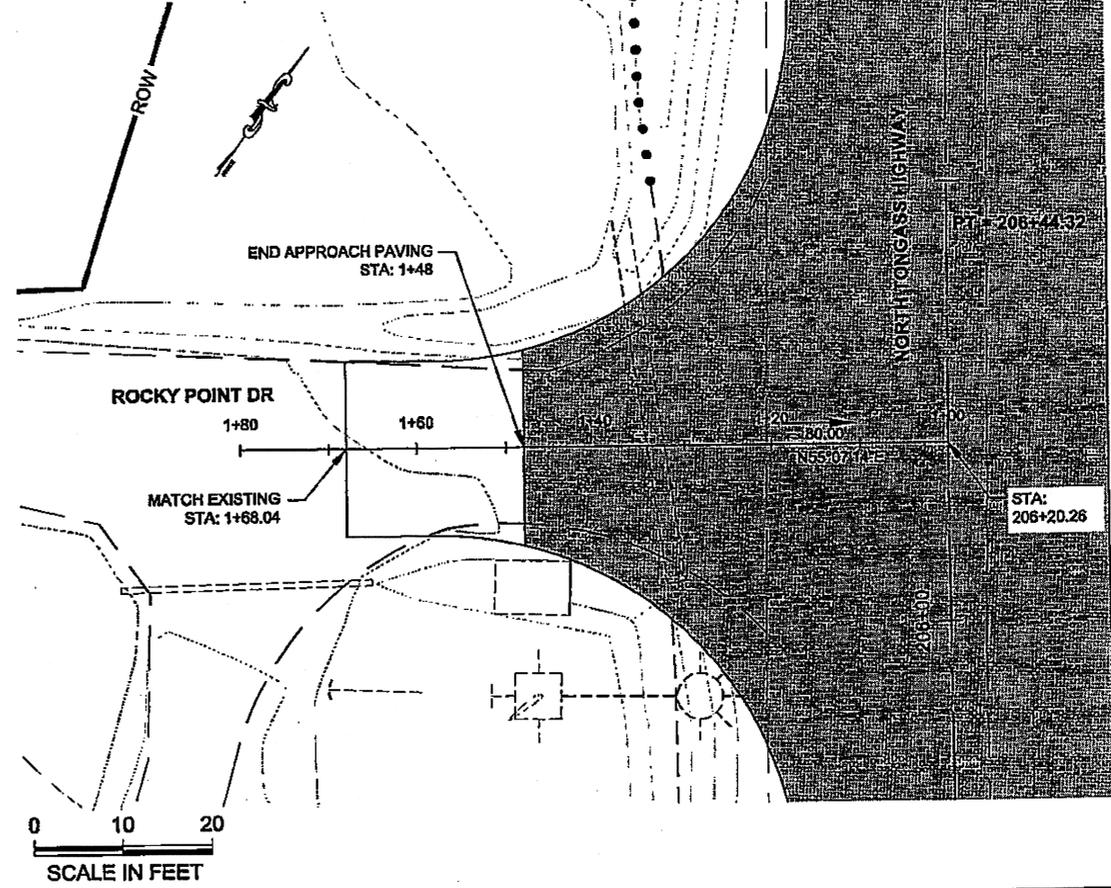
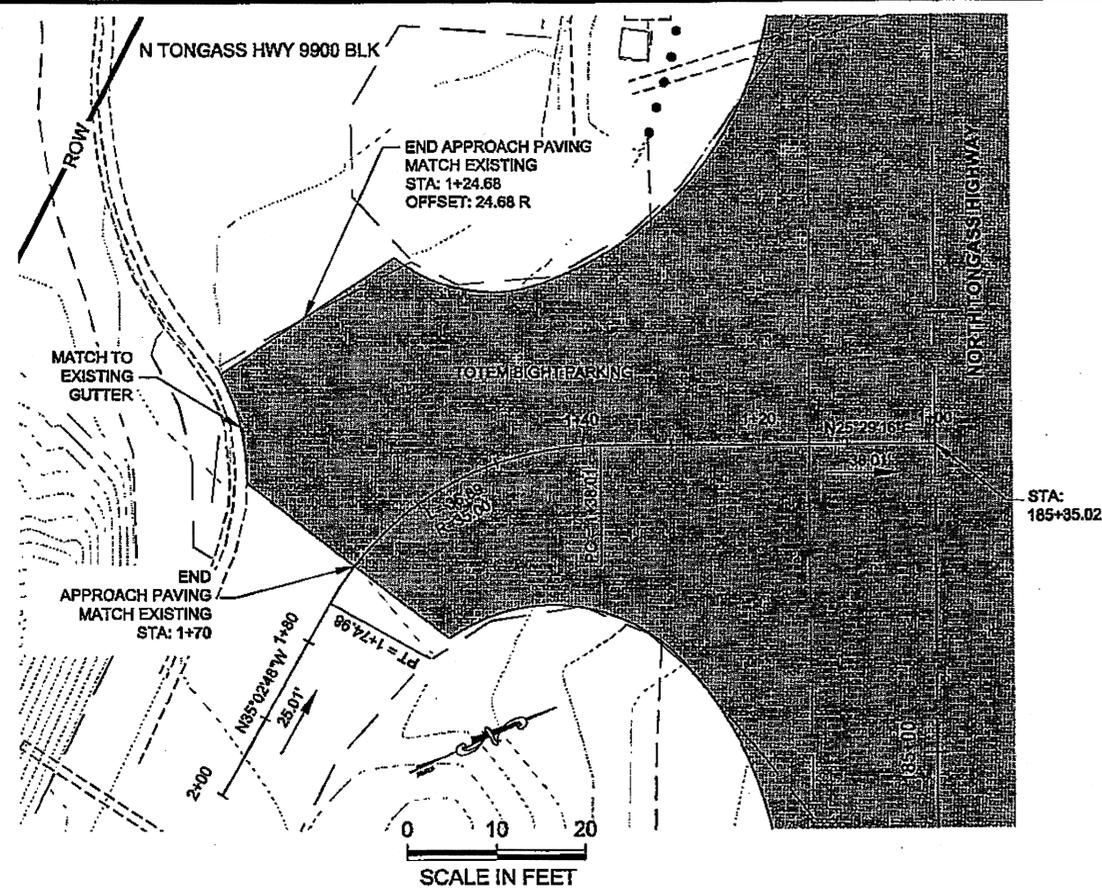


**DW 267+29 RT  
 JOHANNSEN ROAD**

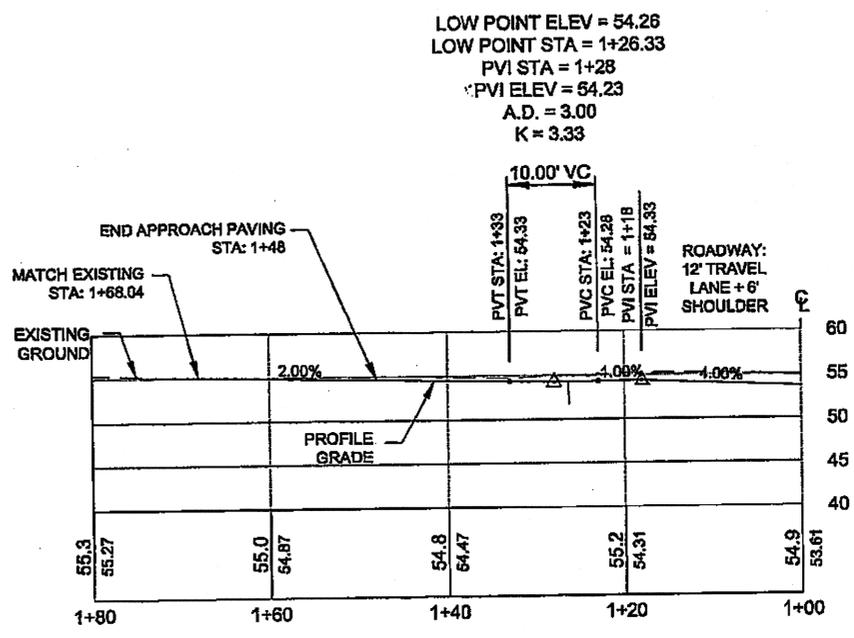
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *NO* Date: *4/16/13*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



DW 185+35 LT



DW 206+20 LT  
ROCKY POINT DR

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Date 4/11/12  
PE MJB

PATH: G:\KTN\67443\PLANS\67443\_01-020 APPROACH P&P.DWG

TAB: G3 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

E.O.P. 276+49.00  
260+00 BEACHWOOD RD.  
240+00  
ANCHORWOOD GT.  
220+00 D-1 LOOP RD.  
THIS VIEW  
200+00  
180+00  
D-1 LOOP RD. B.O.P. 172+99.43  
PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER  
DRAWN BY: R. GRANHAM

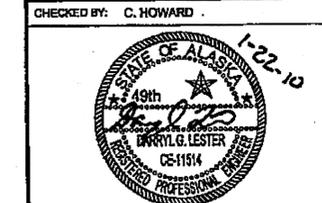
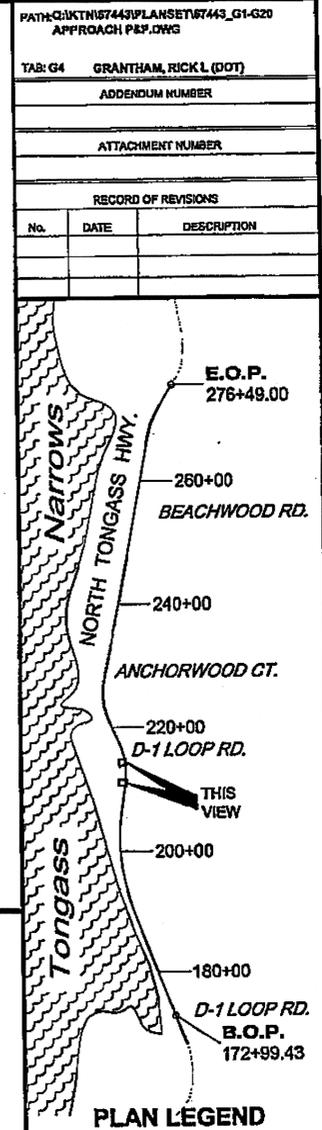
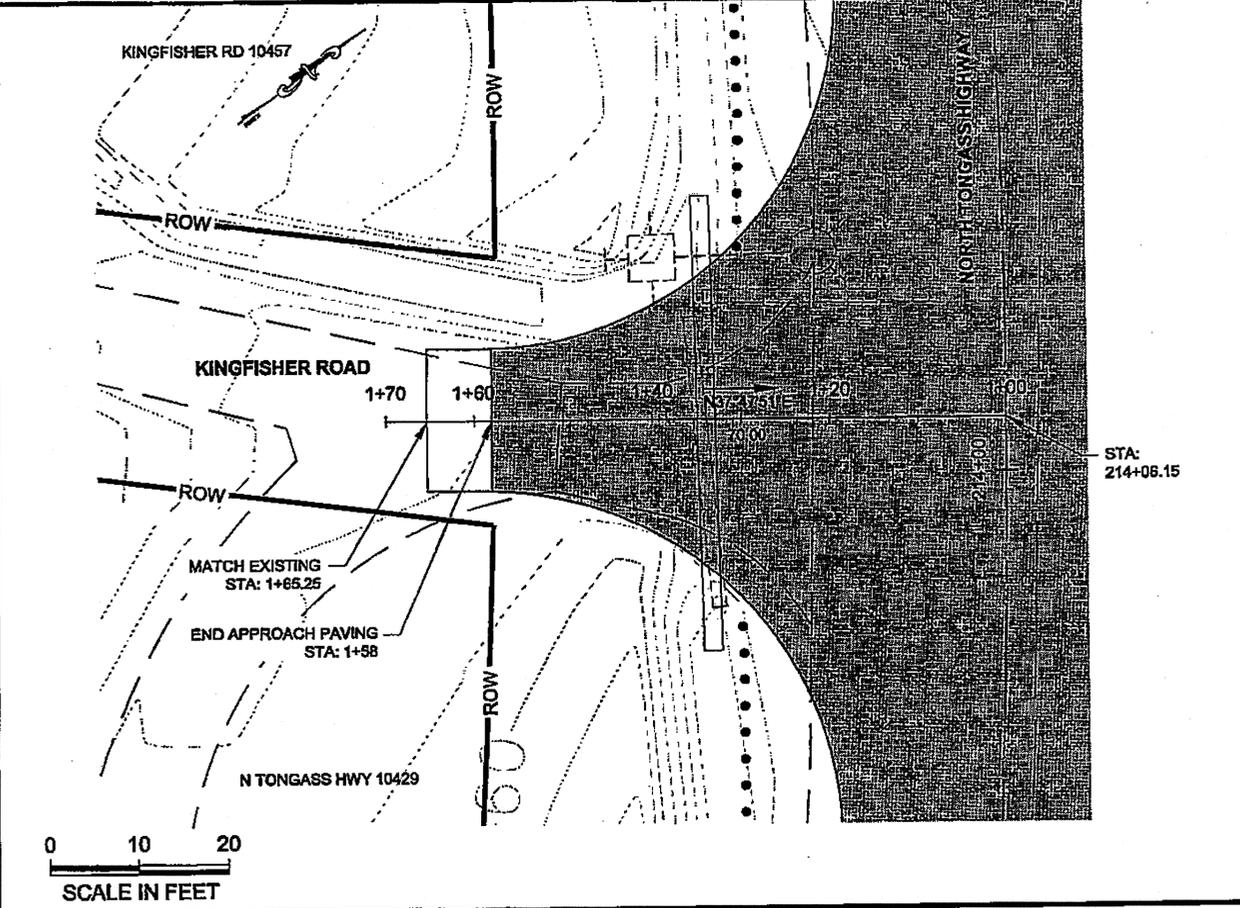
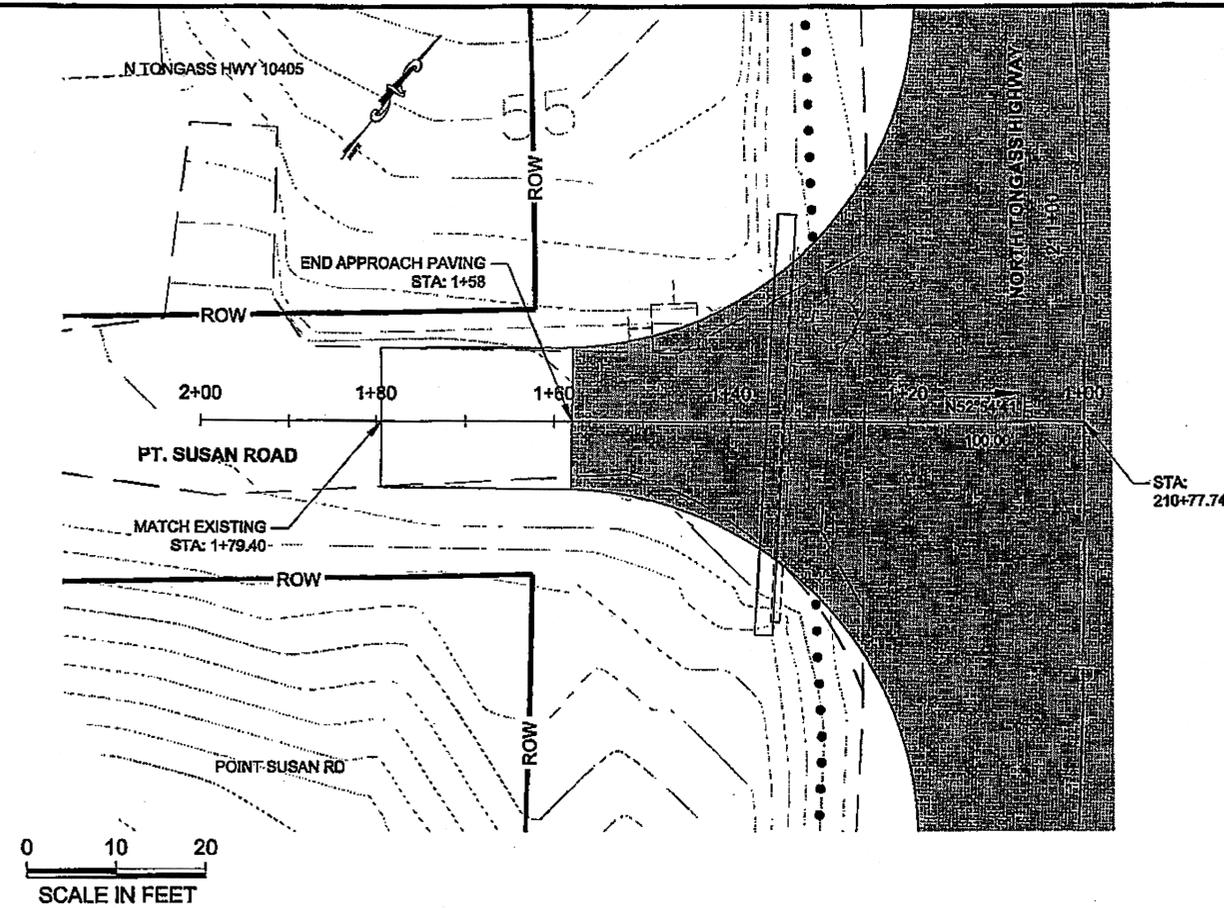
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**APPROACH PLAN & PROFILE**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

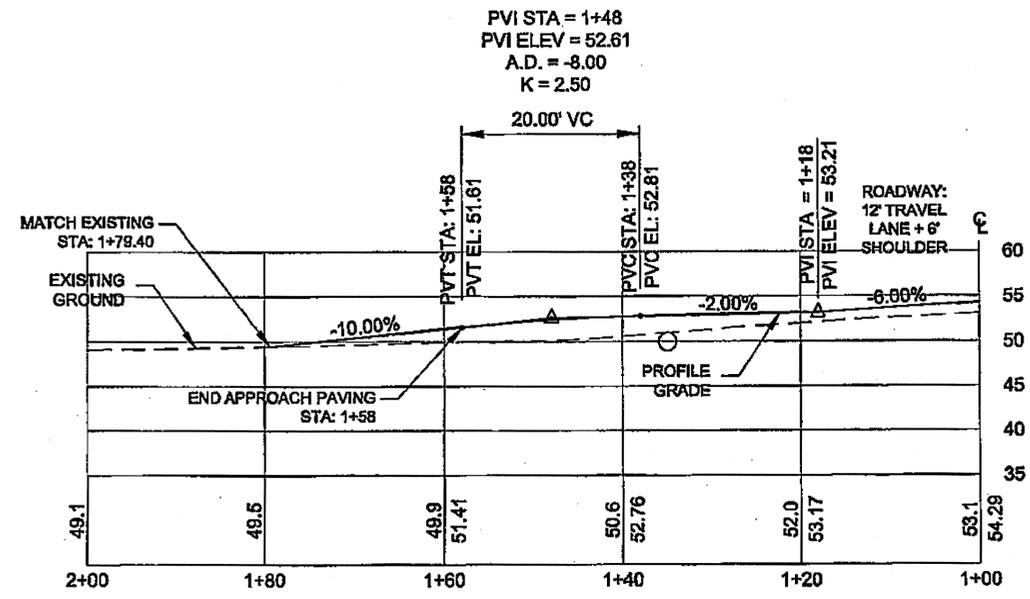
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G3	102



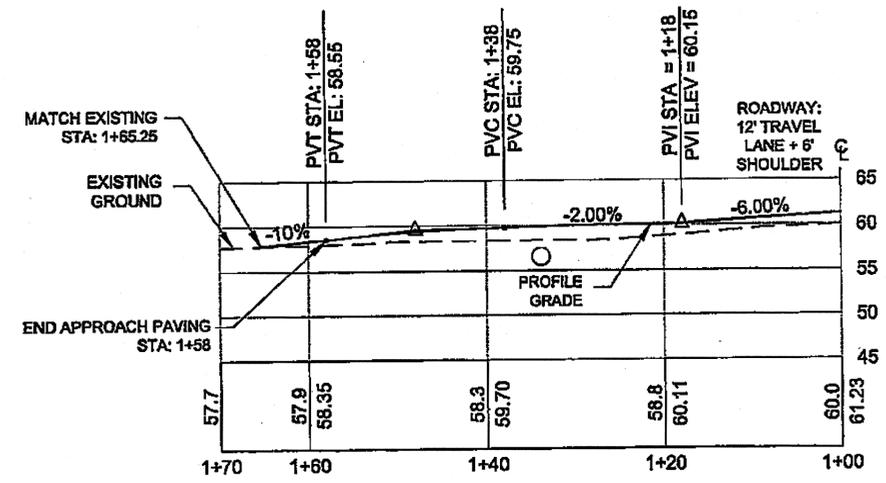
DESIGNED BY: D. LESTER, J. WEAVER  
 DRAWN BY: R. GRANTHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
 KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

PROJECT DESIGNATION	
NH-ARA-0920(25) - 67443	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G4	102

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



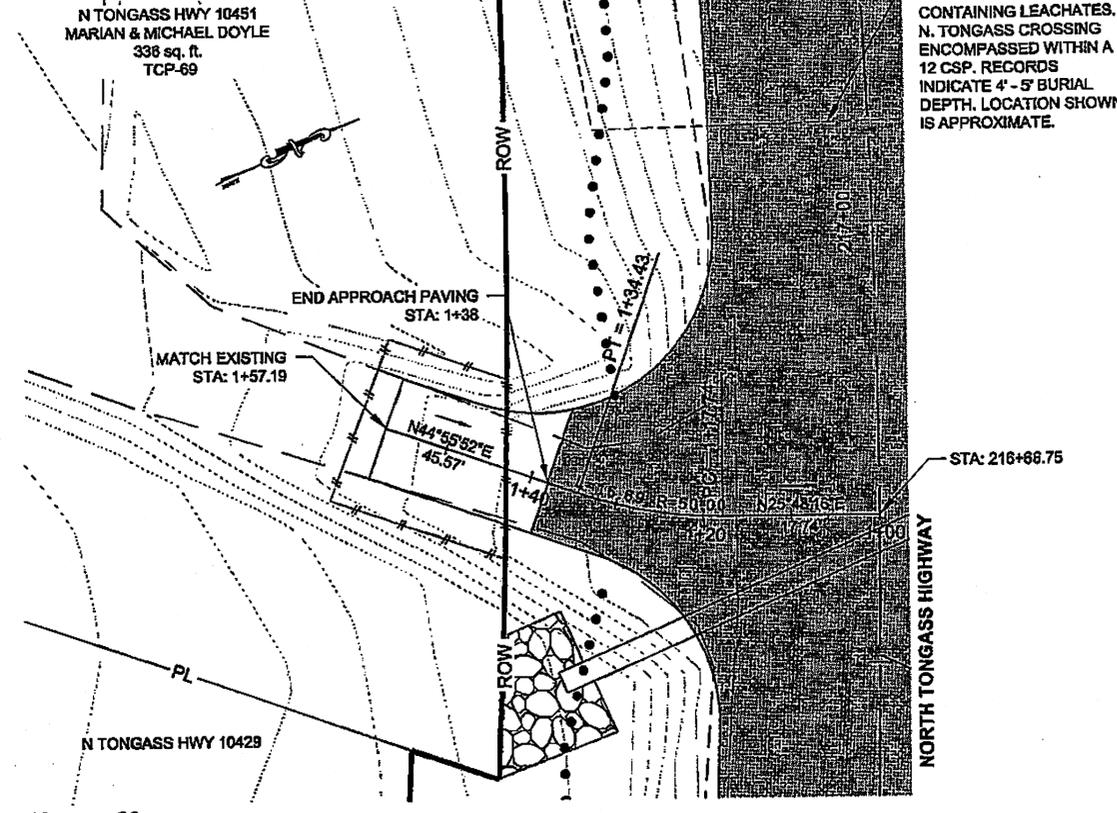
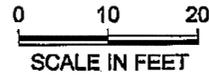
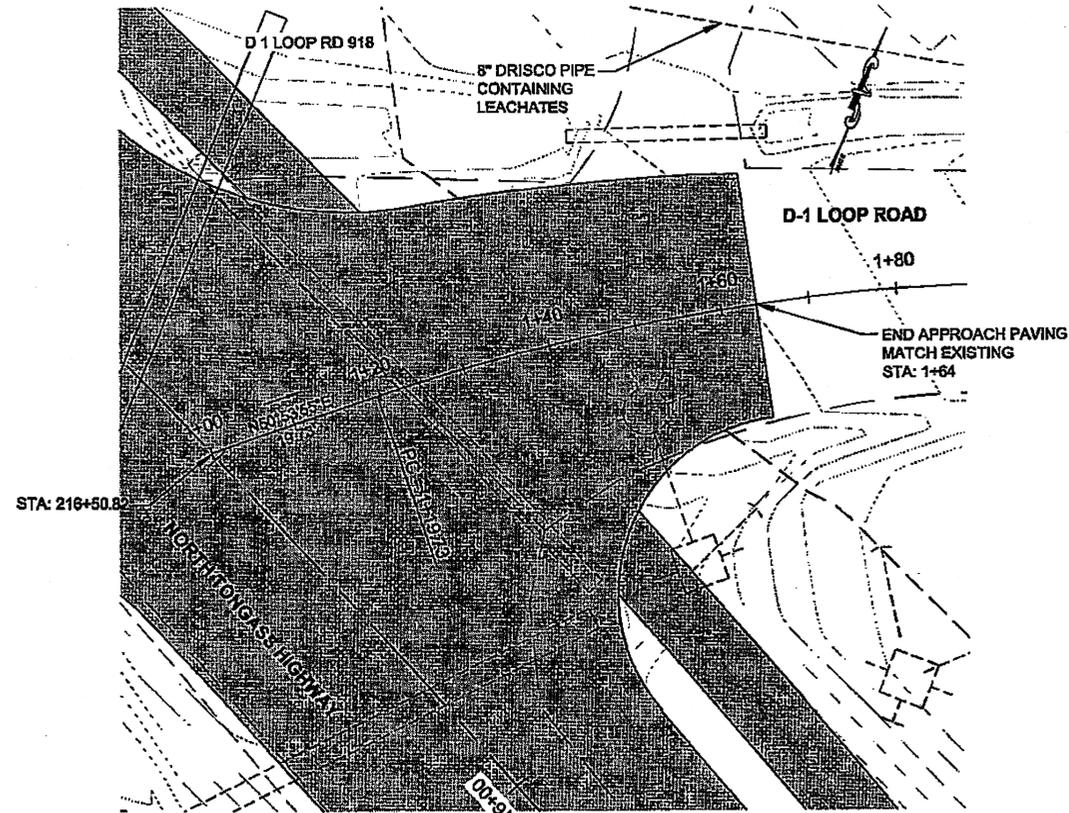
DW 210+77 LT  
PT SUSAN ROAD



DW 214+06 LT  
KINGFISHER ROAD

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the Project as constructed. Date: 4/16/13  
 PE: [Signature]

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: Q:\AKT\187443\PLANSET\187443\_G1-G20 APPROACH P&P.DWG

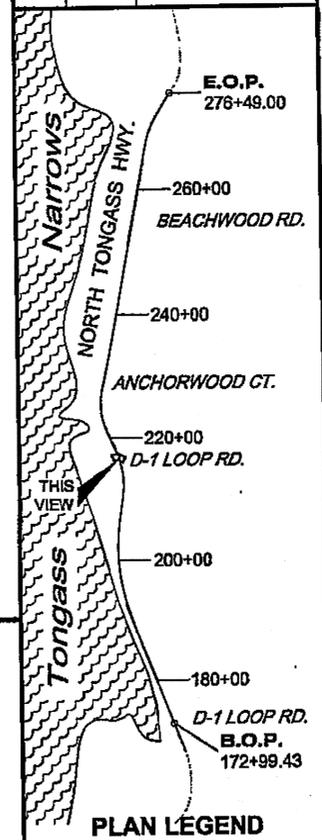
TAB: G5 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

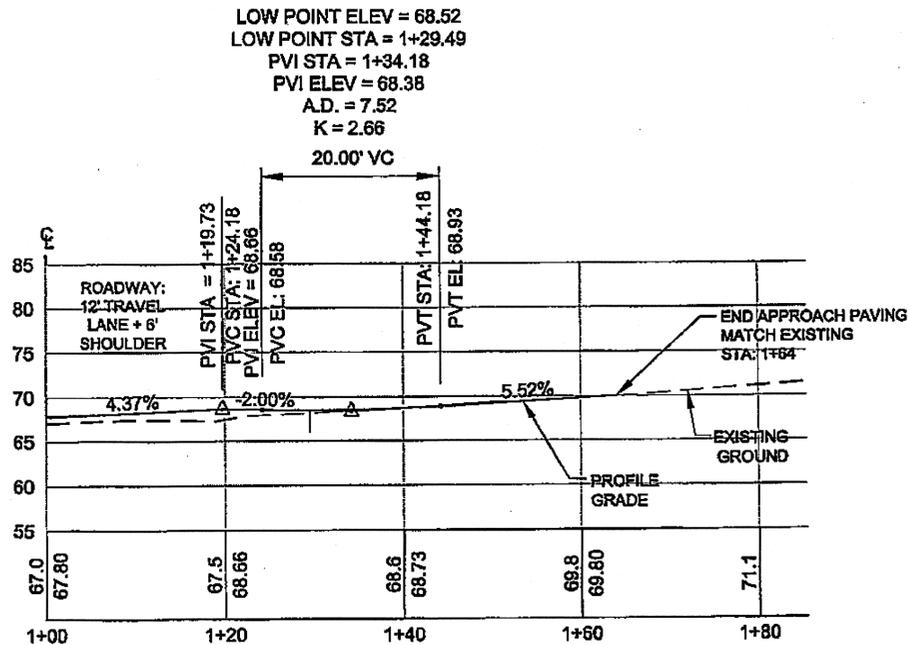
DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

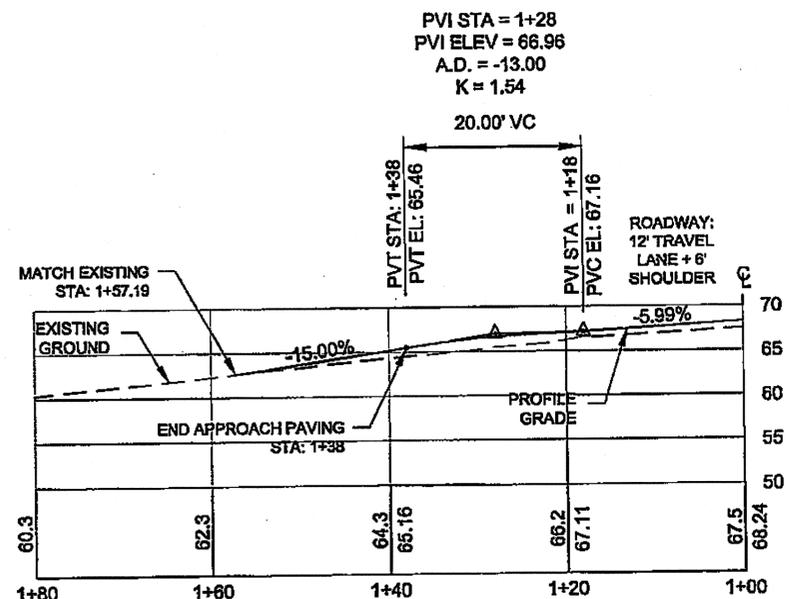
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**APPROACH  
PLAN & PROFILE**



DW 216+50 RT  
D-1 LOOP ROAD

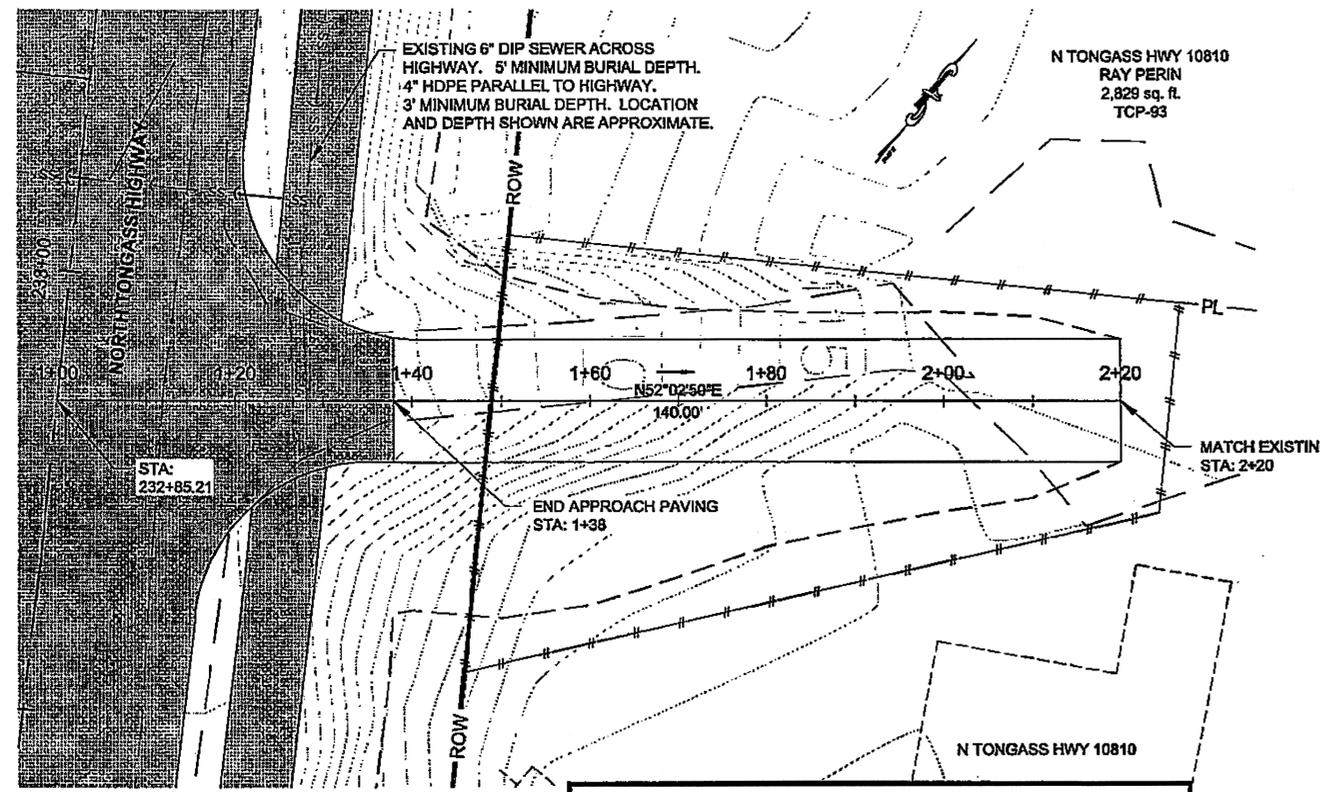


DW 216+66 LT

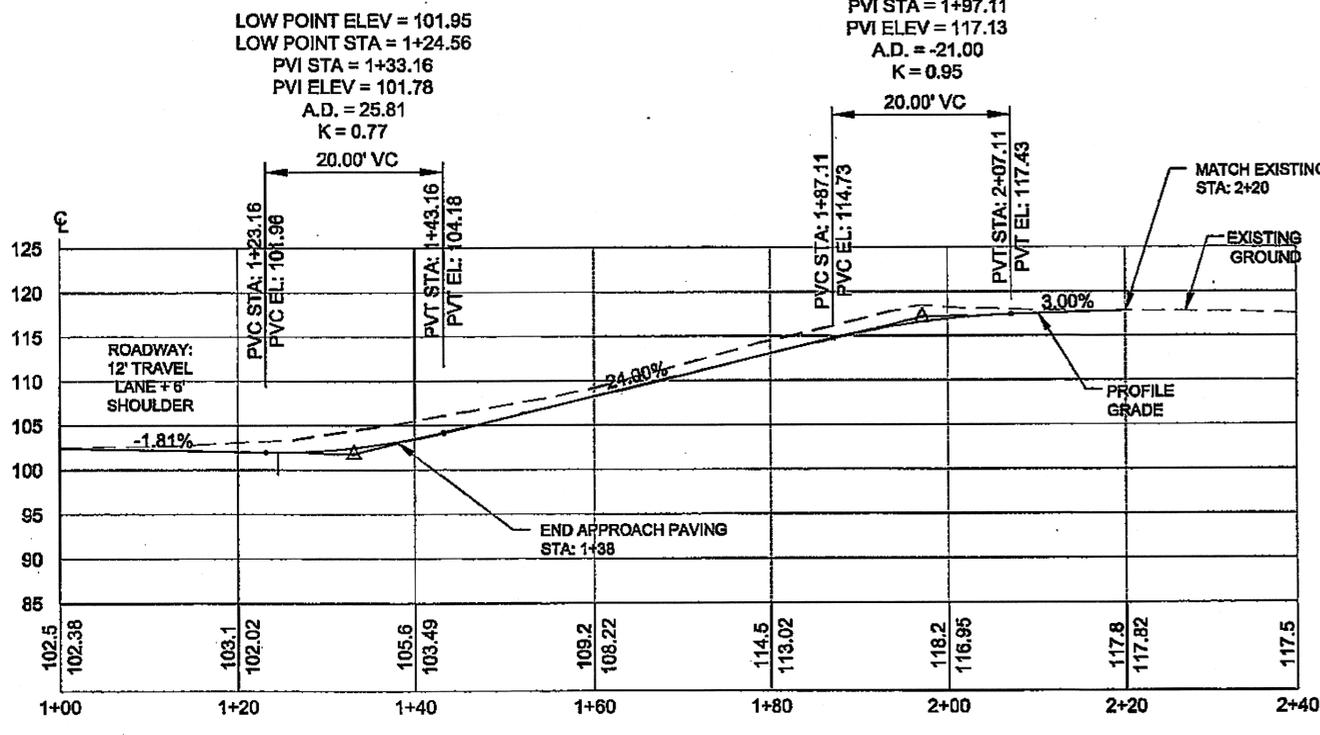
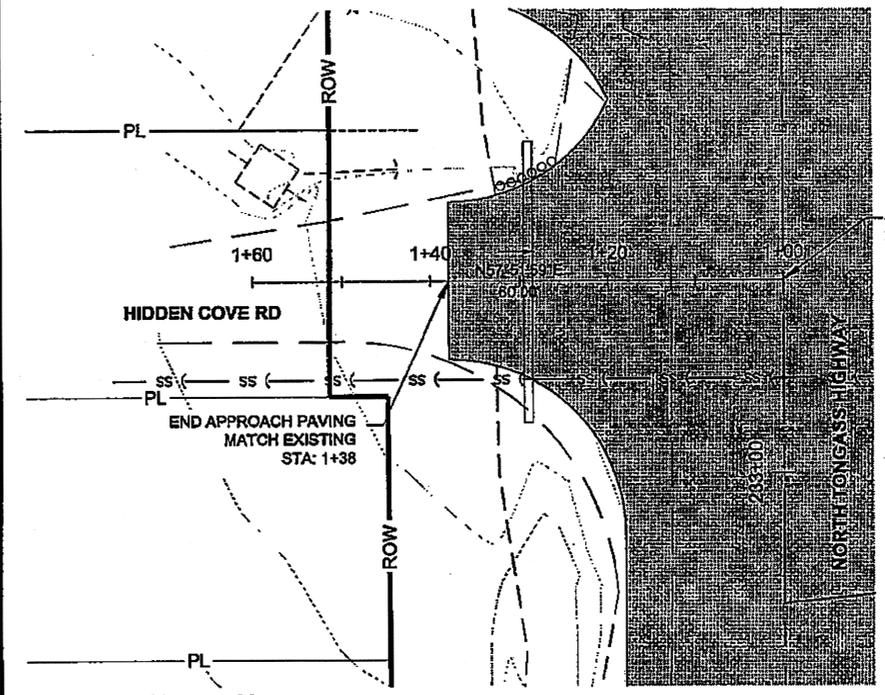
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *[Signature]* Date: 4/6/13

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

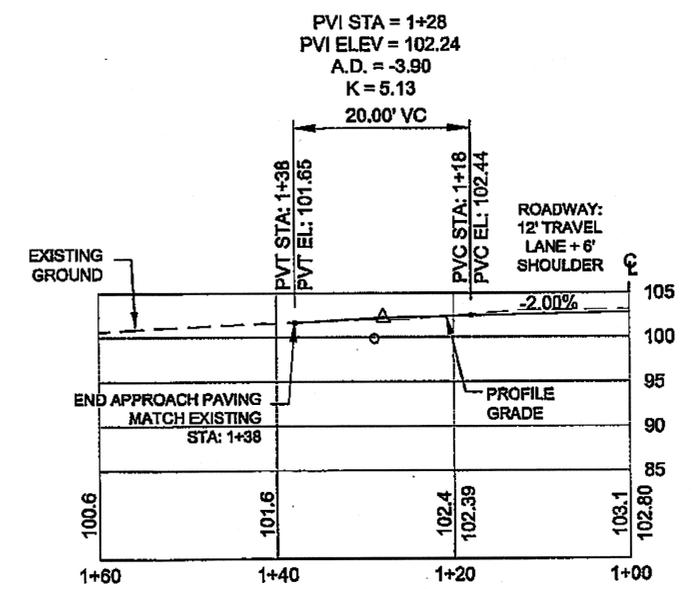
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G5	102



PRIOR TO DRIVEWAY CONSTRUCTION, CONTRACTOR SHALL VERIFY WITH THE ENGINEER THAT A SIGNED TEMPORARY CONSTRUCTION PERMIT HAS BEEN OBTAINED. NO CONSTRUCTION SHALL BE ALLOWED OUTSIDE THE RIGHT OF WAY WITHOUT A SIGNED TEMPORARY CONSTRUCTION PERMIT.



DW 232+85 RT



DW 233+22 LT  
HIDDEN COVE RD

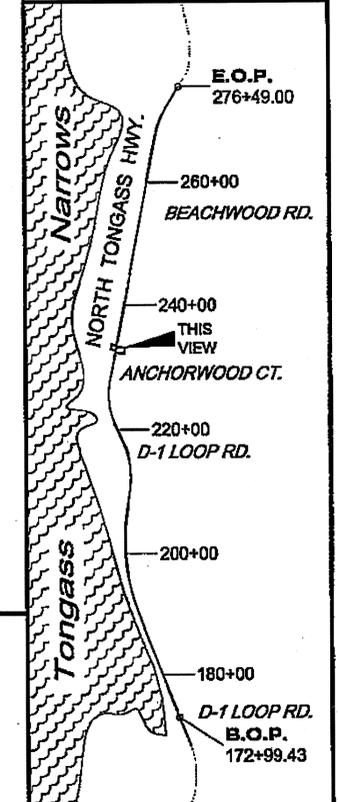
TAB: G6 GRANTHAM, RICK L. (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD



DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

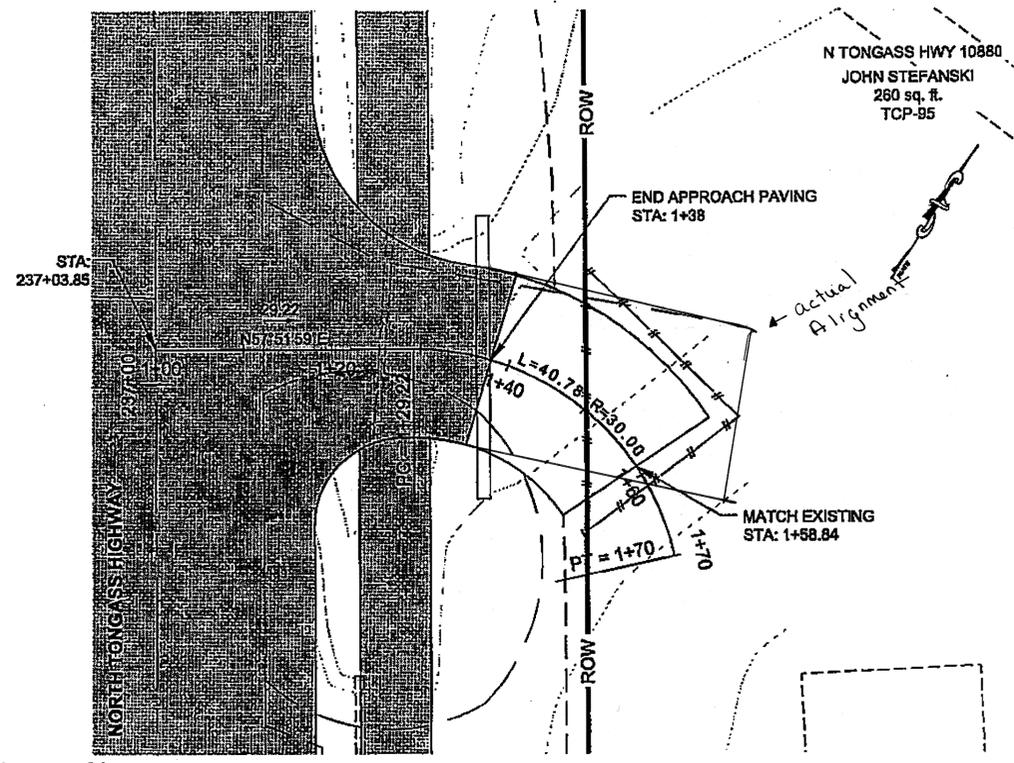
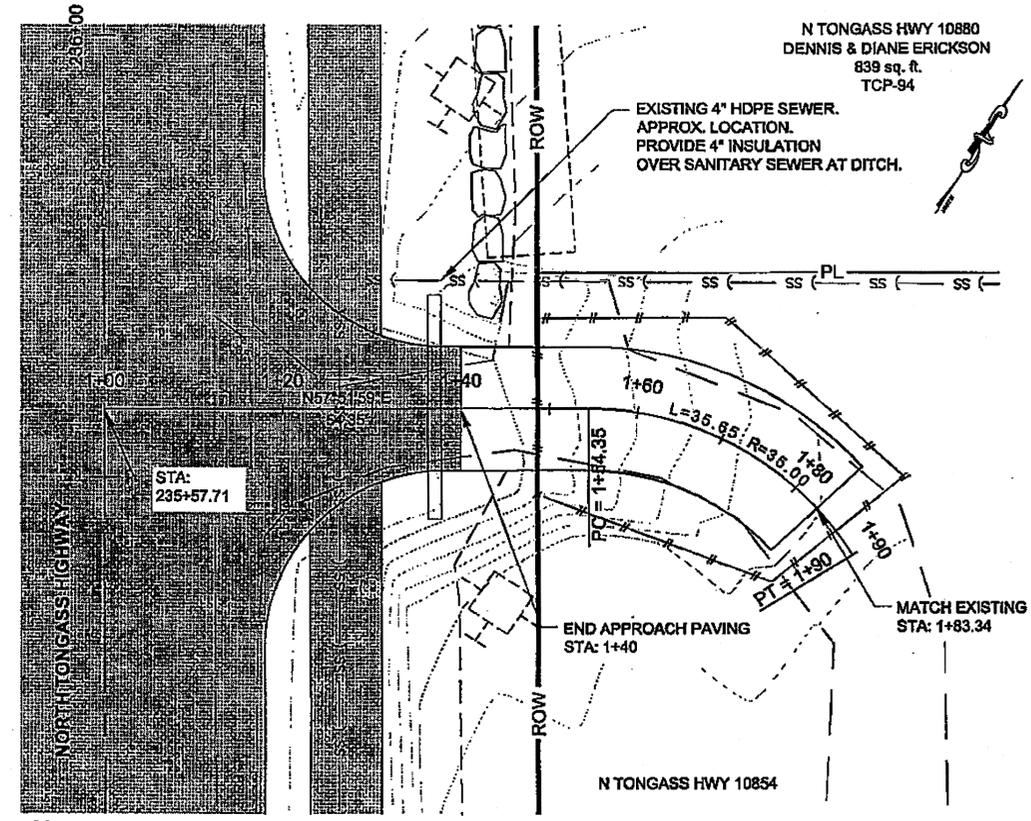
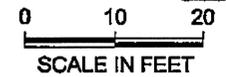
APPROACH  
PLAN & PROFILE

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G6	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: [Signature] Date: 4/16/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PRIOR TO DRIVEWAY CONSTRUCTION, CONTRACTOR SHALL VERIFY WITH THE ENGINEER THAT A SIGNED TEMPORARY CONSTRUCTION PERMIT HAS BEEN OBTAINED. NO CONSTRUCTION SHALL BE ALLOWED OUTSIDE THE RIGHT OF WAY WITHOUT A SIGNED TEMPORARY CONSTRUCTION PERMIT.

PATH: Q:\KT157443\PLANSET\67443\_G1-G20 APPROACH P&P.DWG

TAB: G7 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

E.O.P. 276+49.00

260+00 BEACHWOOD RD.

240+00 THIS VIEW ANCHORWOOD CT.

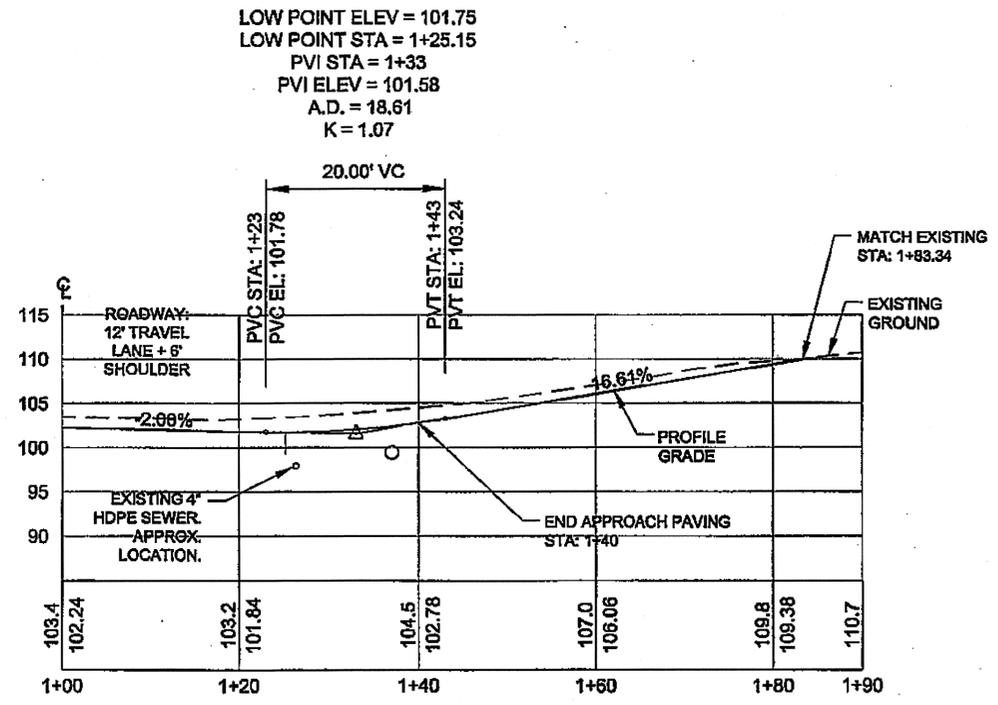
220+00 D-1 LOOP RD.

200+00

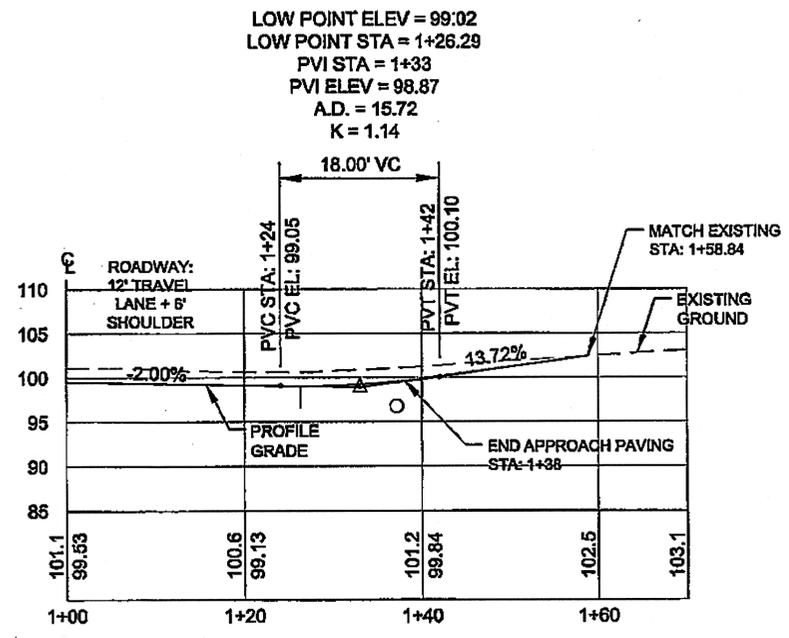
180+00 D-1 LOOP RD. B.O.P. 172+99.43

PLAN LEGEND

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



DW 235+57 RT



DW 237+03 RT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *W* Date: 4/16/13

CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

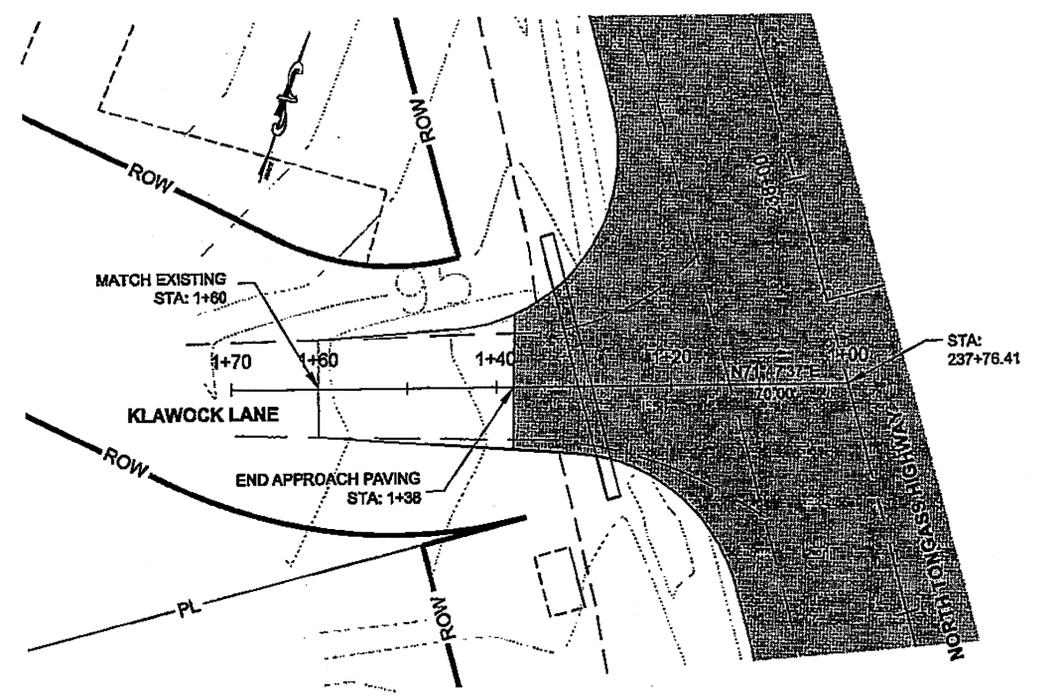
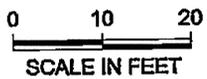
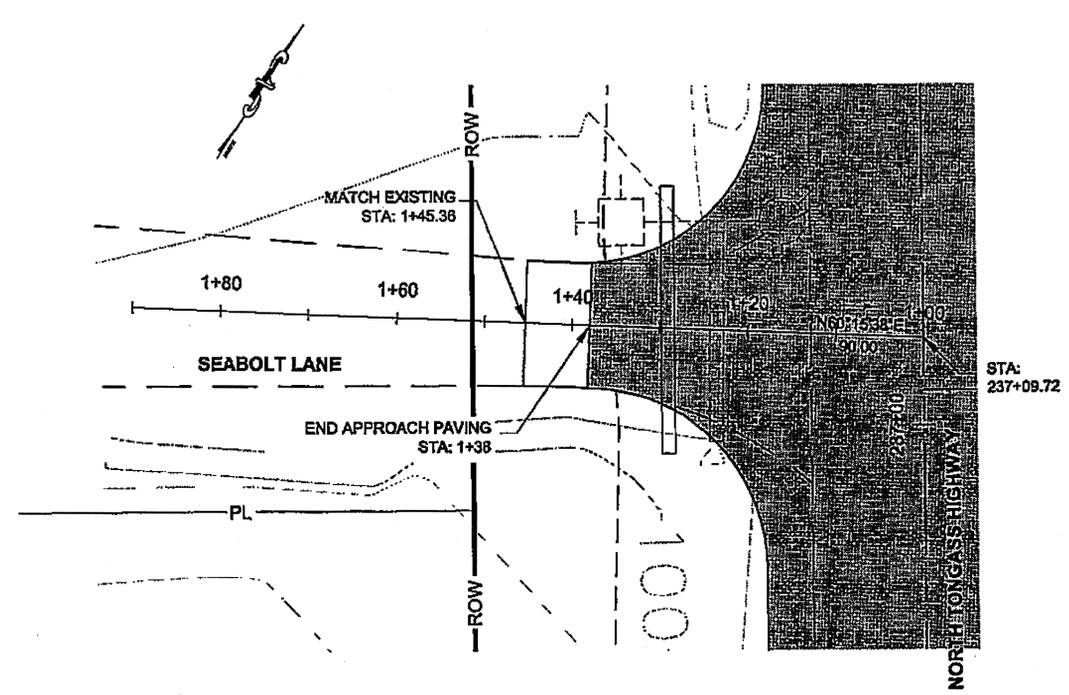
KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

APPROACH  
 PLAN & PROFILE

PROJECT DESIGNATION  
 NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
G7	102



PATH: Q:\AKT\67443\PLANS\67443\_G1-G20  
APPROACH P&P.DWG

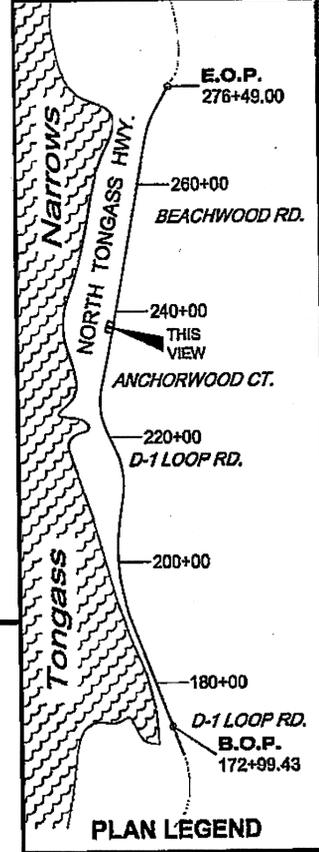
TAB: G8 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

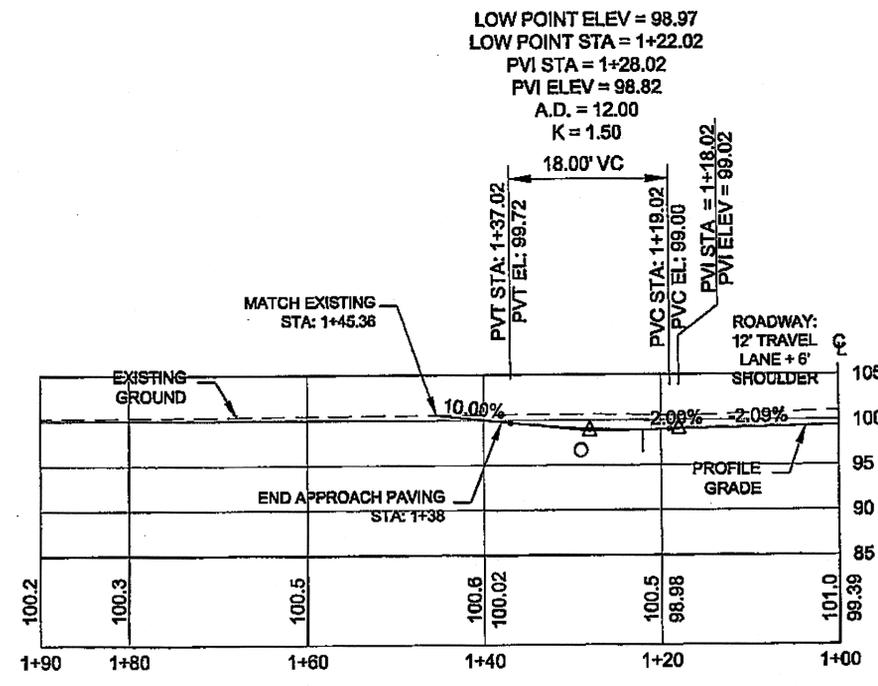
KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**APPROACH  
PLAN & PROFILE**

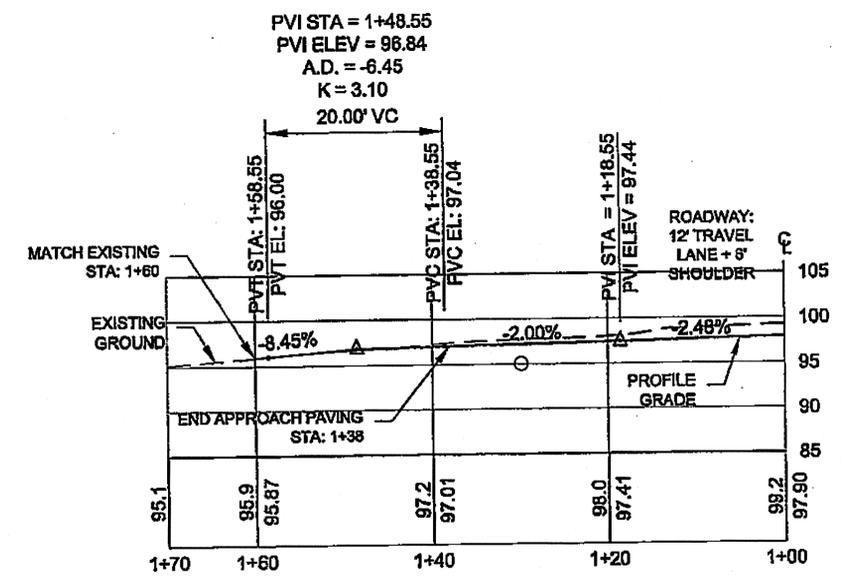
PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G8	102

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



DW 237+09 LT  
SEABOLT LANE

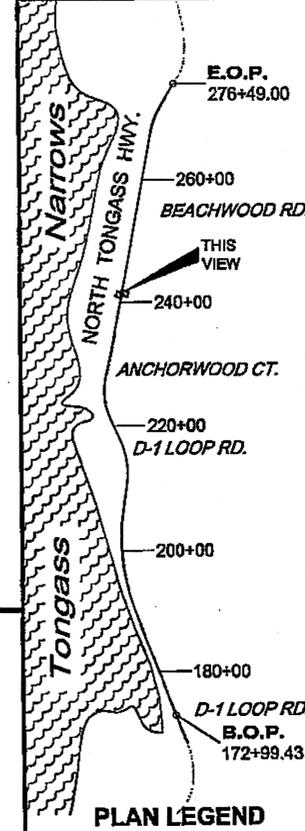


DW 237+76 LT  
KLAWOCK LANE

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

PE: *INB* Date: 4/16/13

TAB: G9	GRANTHAM, RICK L (DOT)	
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



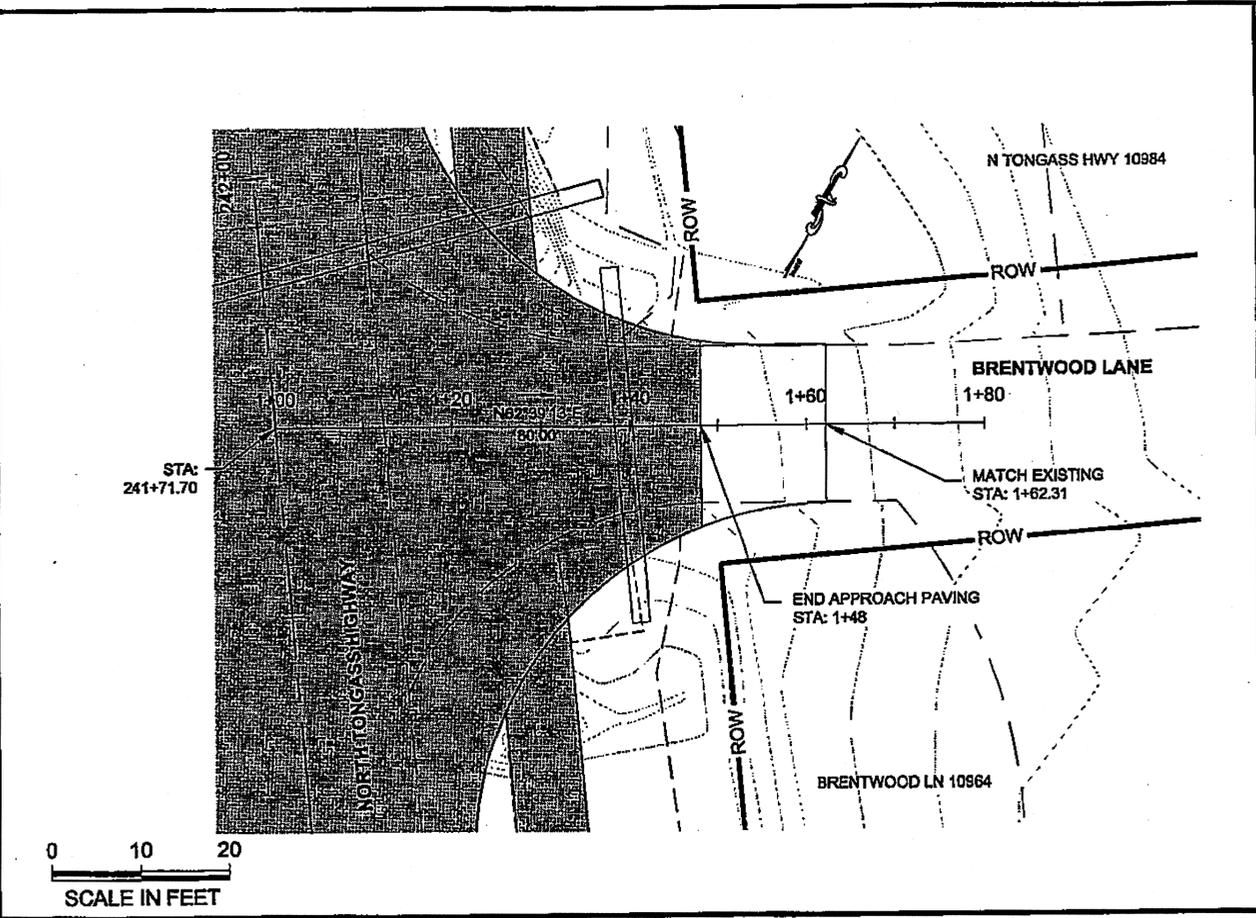
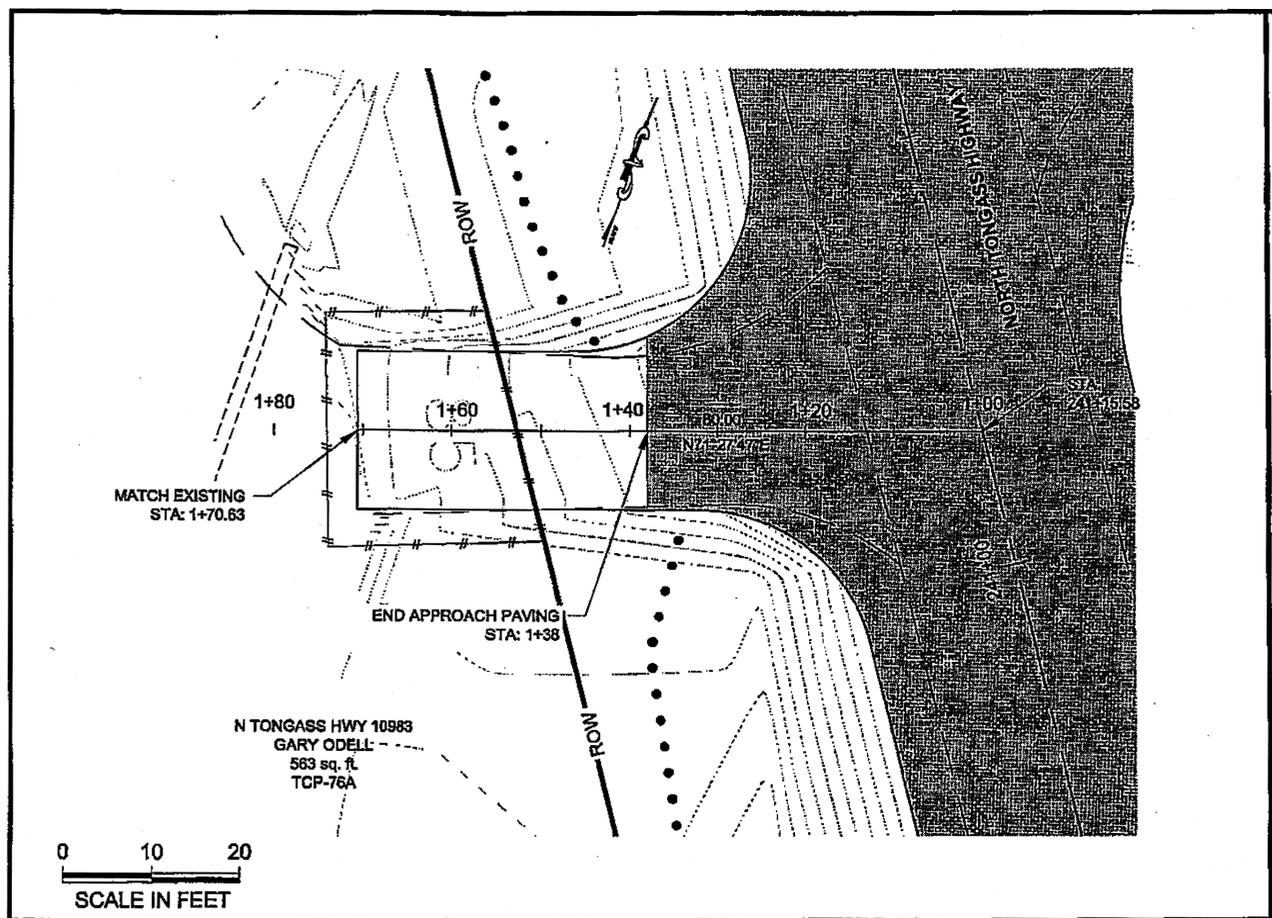
CHECKED BY: C. HOWARD



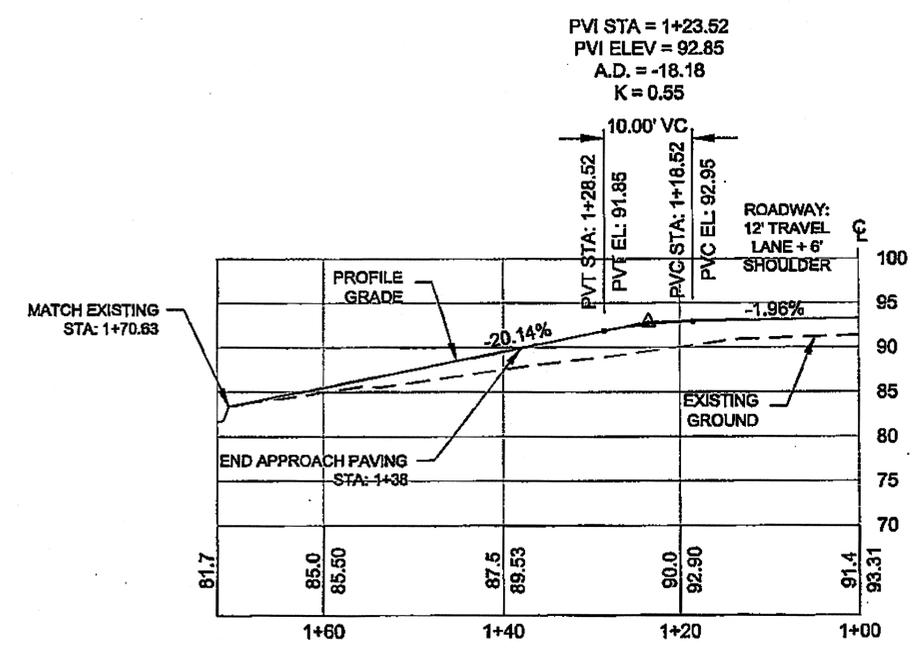
DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

PROJECT DESIGNATION	
NH-ARA-0920(25) - 67443	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
G9	102

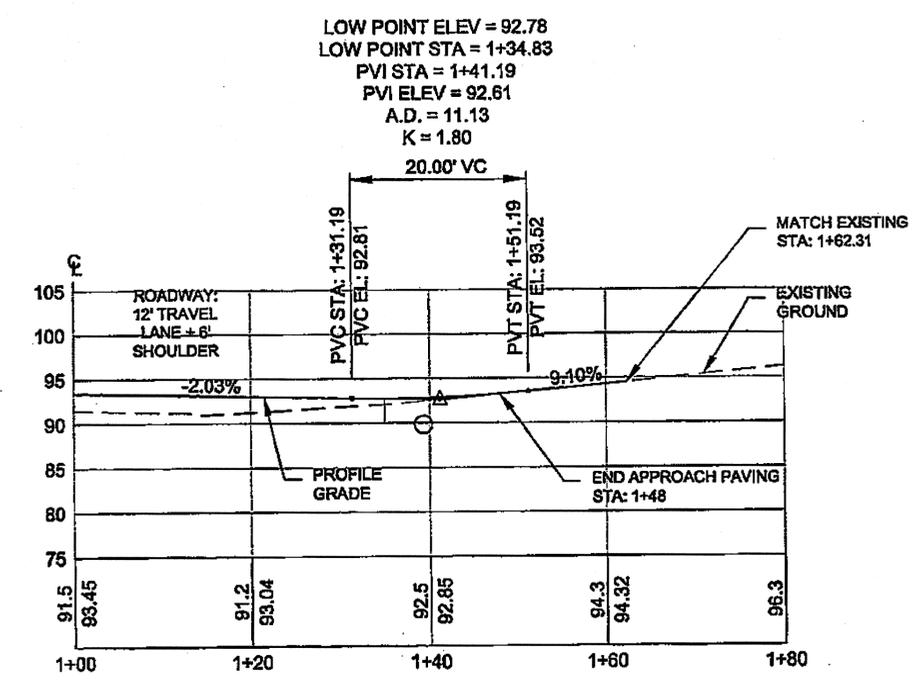
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge and the project as constructed.  
 PE: *[Signature]* Date: 4/16/12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

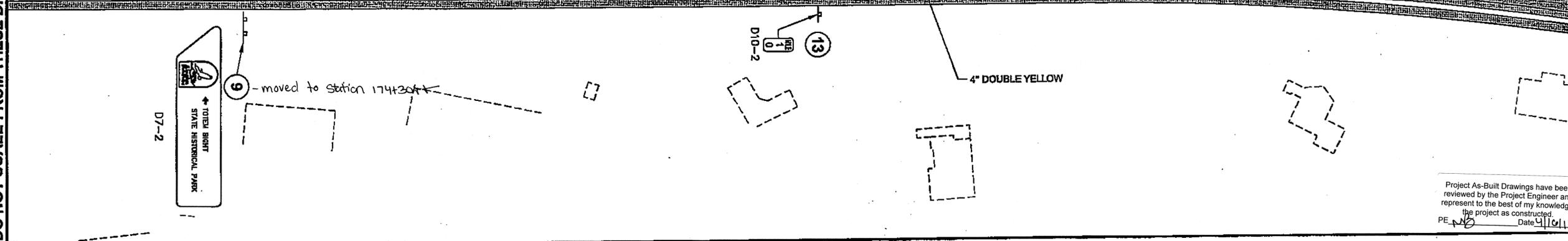
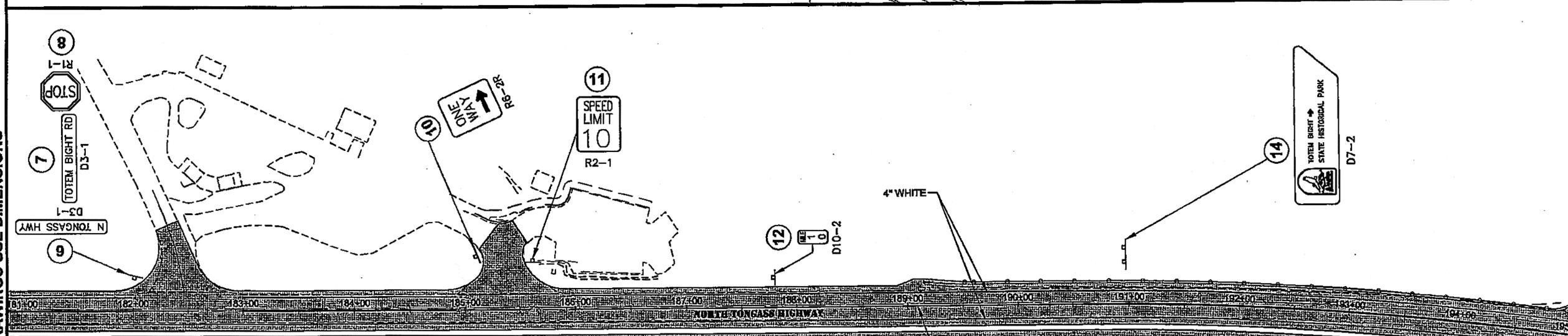
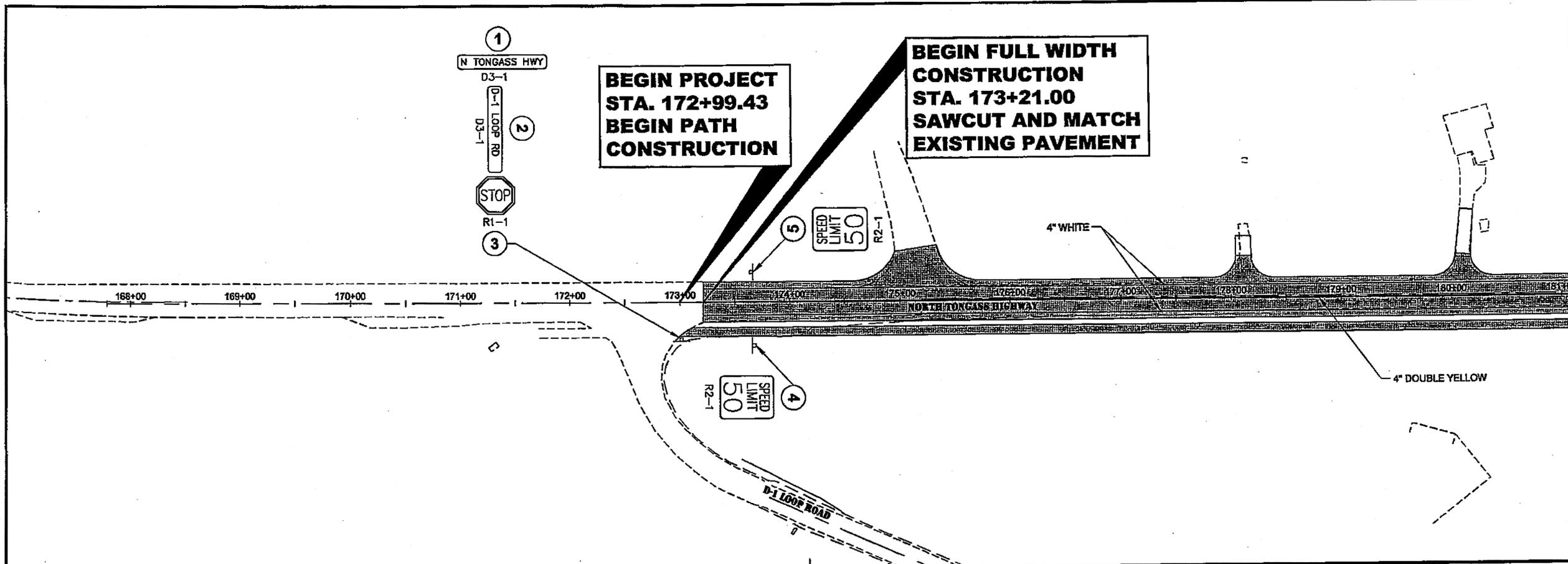


DW 241+15 LT



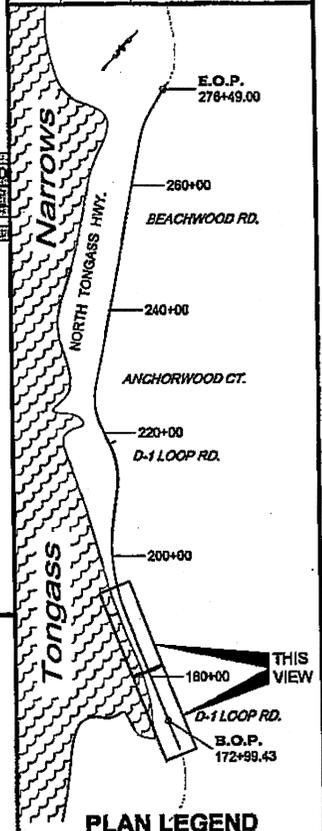
DW 241+71 RT  
BRENTWOOD LANE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: Q:\CT\167443\PLANSET\167443\_H1-H6\_SIGN-ILLUM.dwg  
 TAB: H1 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: DAVID BRUCE EPSTEIN

DESIGNED BY: C. DIONISIO  
 DRAWN BY: C. DIONISIO  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

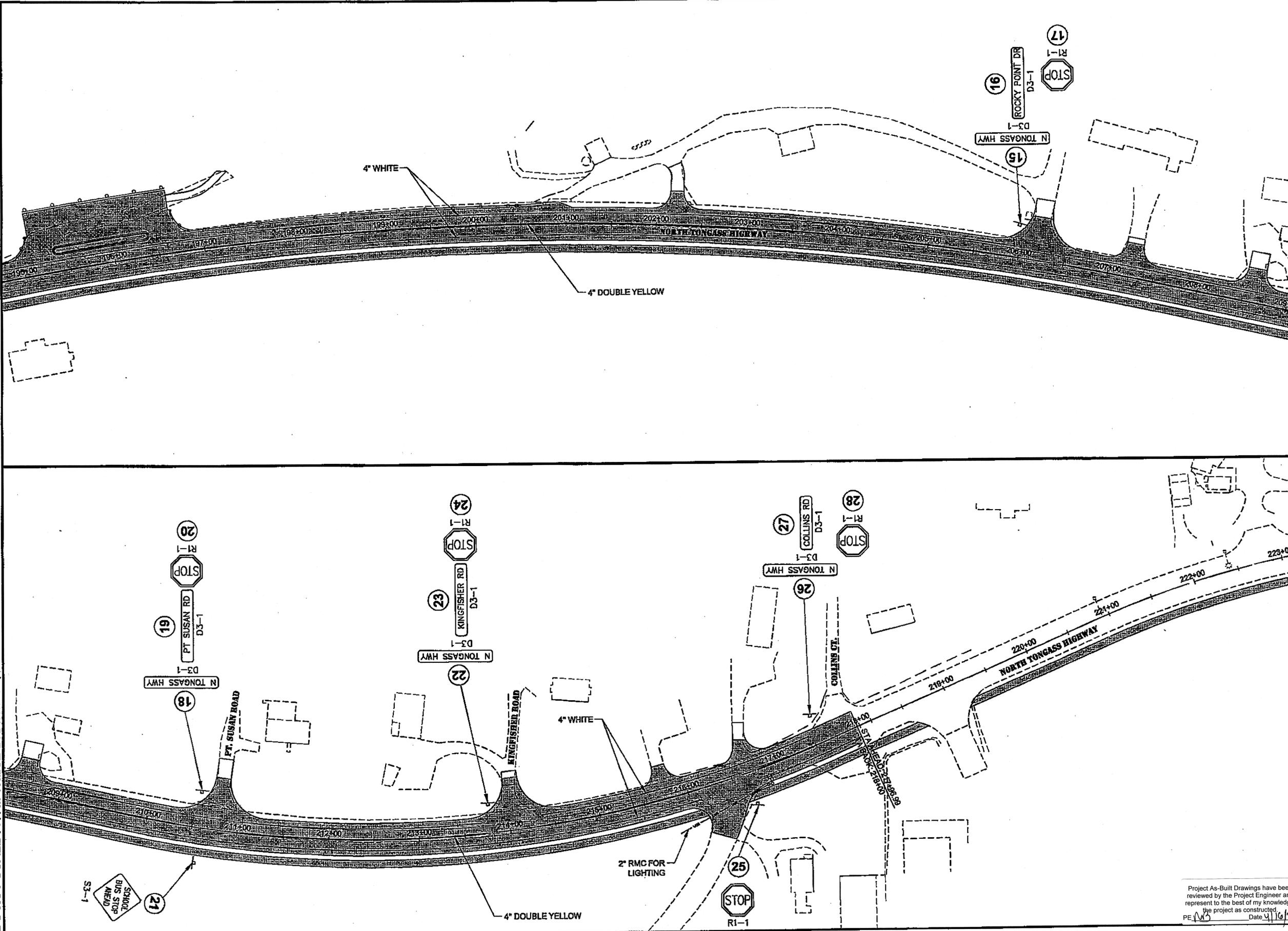
**SIGNING, STRIPING  
 & LIGHTING**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>H1</b>	<b>102</b>

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/10/13

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS



PATH: Q:\KTM67443\PLANSET\67443\_H1-H6\_SIGN-DLLUM.dwg  
 TAB: H2 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER  
 ATTACHMENT NUMBER

RECORD OF REVISIONS  
 No. DATE DESCRIPTION

E.O.P. 276+49.00  
 260+00 BEACHWOOD RD.  
 240+00  
 ANCHORWOOD CT.  
 220+00 D-1 LOOP RD. THIS VIEW  
 200+00  
 180+00 D-1 LOOP RD.  
 B.O.P. 172+99.43

**PLAN LEGEND**

CHECKED BY: DAVID BRUCE EPSTEIN

DESIGNED BY: C. DIONISIO  
 DRAWN BY: C. DIONISIO

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**SIGNING, STRIPING & LIGHTING**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>H2</b>	<b>102</b>

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/16/13

PATH:  
C:\KTM\67443\PLANS\67443\_H1-H6\_SIGN-ILLUM.DWG

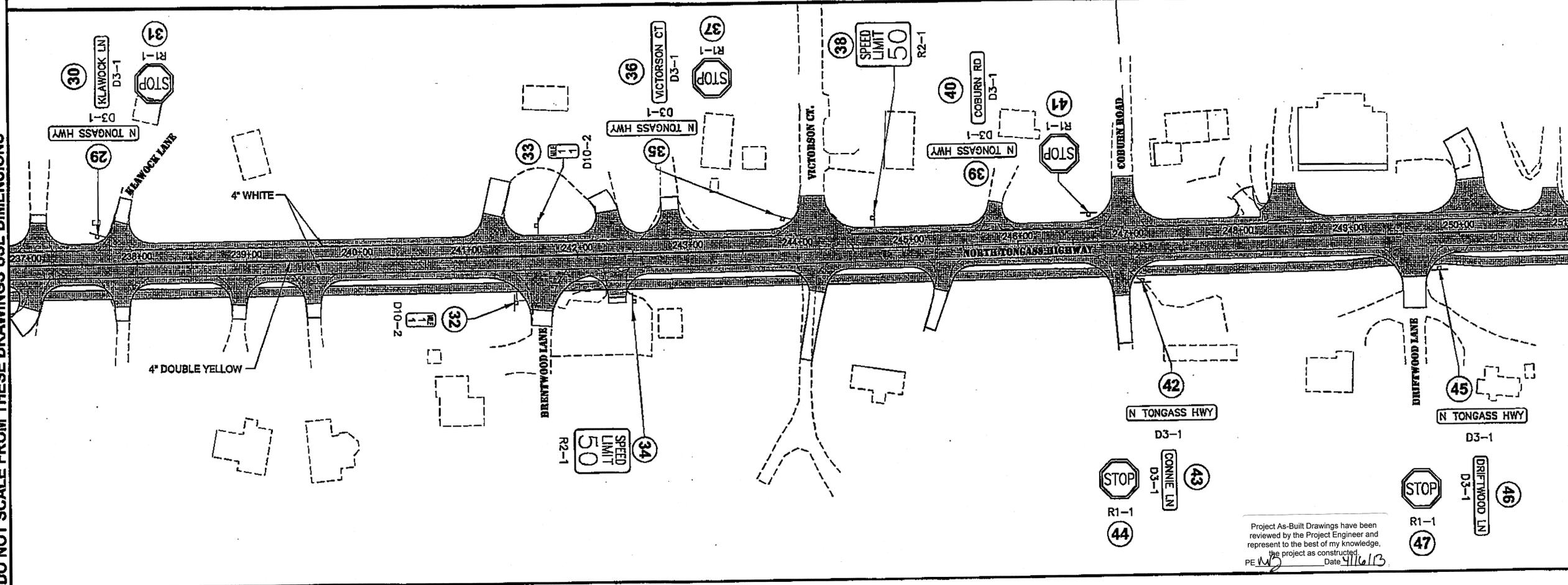
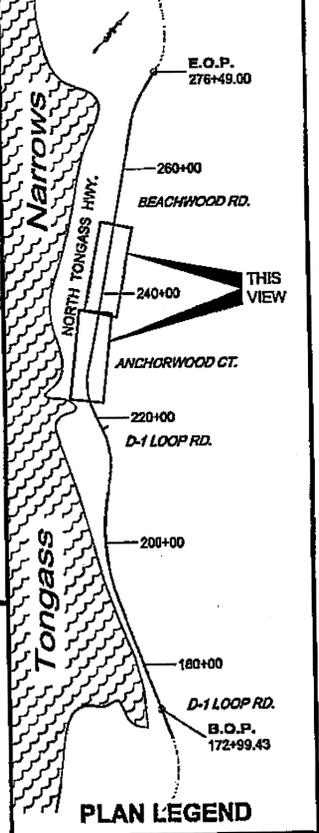
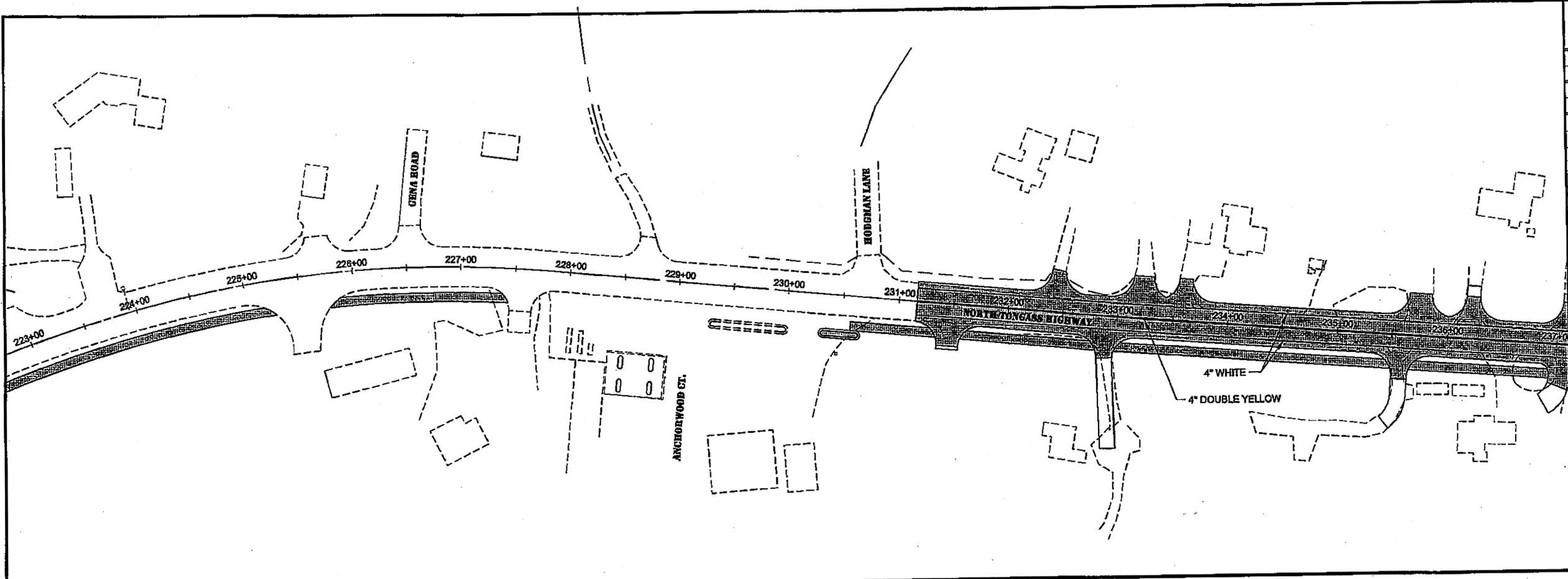
TAB: H3 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PLAN LEGEND

CHECKED BY: DAVID BRUCE EPSTEIN



DESIGNED BY: C. DIONISIO

DRAWN BY: C. DIONISIO

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

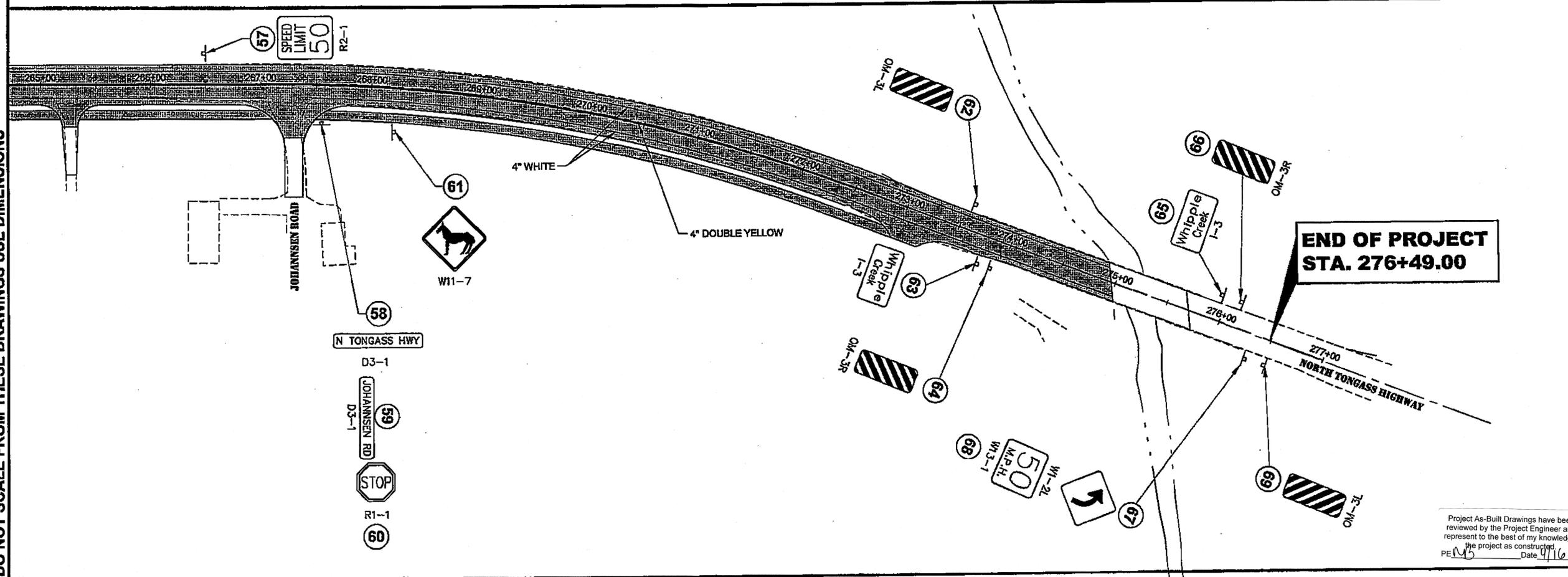
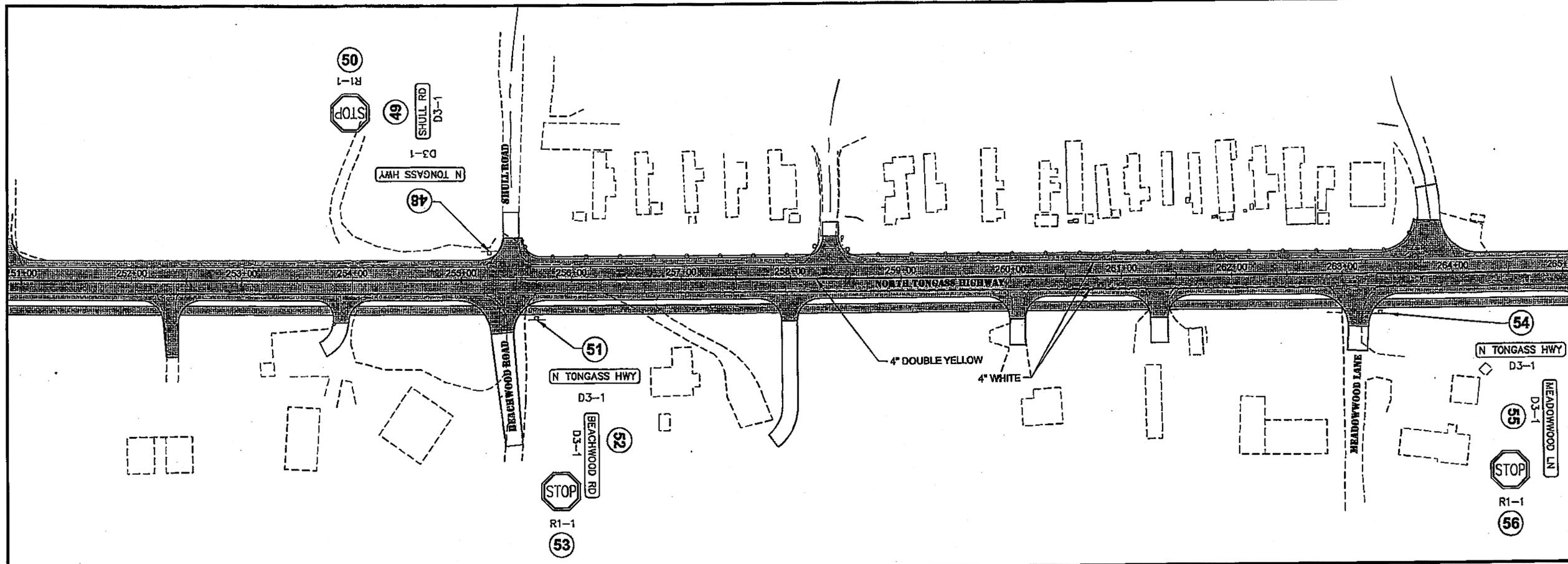
**SIGNING, STRIPING  
& LIGHTING**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
H3	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: [Signature] Date: 4/16/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH:  
Q:\KTN\67443\PLANSET\67443\_M1-H8\_SIGN-ILLUM.DWG

TAB: H4 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

**PLAN LEGEND**

CHECKED BY: DAVID BRUCE EPSTEIN

DESIGNED BY: C. DIONISIO

DRAWN BY: C. DIONISIO

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

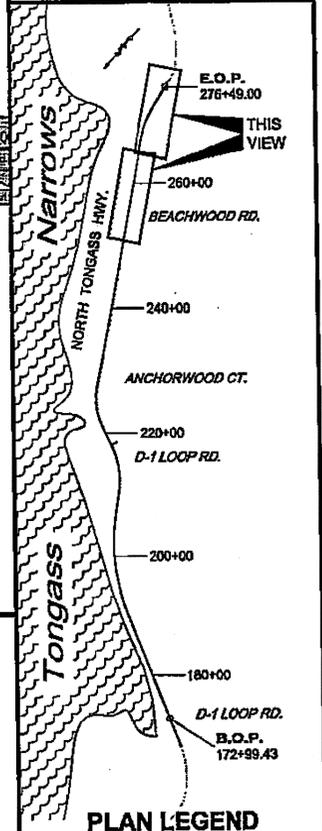
**SIGNING, STRIPING  
& LIGHTING**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
H4	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: MB Date 4/16/12



**END OF PROJECT  
STA. 276+49.00**

**615 (1) STANDARD SIGN SUMMARY**

SIGN #	LEGEND	STA.	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST	SIGN FACING	COMMENTS
1	N TONGASS HWY	172+85	RT	D3-1	48	8	2.67	-	NB/SB	MOUNT ABOVE SIGN # 3. USE 4" LETTERS, FONT SERIES C.
2	D-1 LOOP RD	172+85	RT	D3-1	42	8	2.33	-	EB/WB	MOUNT ABOVE SIGN # 3. USE 4" LETTERS, FONT SERIES C.
3	STOP	172+85	RT	R1-1	30	30	6.25	2.5 PST	EB	
4	SPEED LIMIT 50	173+65	RT	R2-1	30	36	7.50	2.5 PST	SB	
5	SPEED LIMIT 50	173+68	LT	R2-1	30	36	7.50	2.5 PST	NB	
6	N TONGASS HWY	182+12	LT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 6. USE 4" LETTERS, FONT SERIES C.
7	TOTEM BIGHT RD	182+12	LT	D3-1	48	8	2.67	-	NB/SB	MOUNT ABOVE SIGN # 6. USE 4" LETTERS, FONT SERIES C.
8	STOP	182+12	LT	R1-1	30	30	6.25	2.5 PST	WB	
9	TOTEM BIGHT STATE HISTORICAL PARK	183+00	RT	D7-2	150	30	31.25	(2) 4x6 WOOD	SB	USE 8" LETTERS, FONT SERIES D.
10	ONE WAY →	185+10	LT	R6-2R	24	30	5.00	2.5 PST	NB	
11	SPEED LIMIT 10	185+60	LT	R2-1	24	30	5.00	2.5 PST	EB	
12	MILE 10	187+83	LT	D10-2	10	27	1.88	2.5 PST	SB	USE 4" LETTERS, FONT SERIES B. USE 6" NUMBERS, FONT SERIES D
13	MILE 10	188+22	RT	D10-2	10	27	1.88	2.5 PST	SB	USE 4" LETTERS, FONT SERIES B. USE 6" NUMBERS, FONT SERIES D
14	TOTEM BIGHT STATE HISTORICAL PARK	191+00	LT	D7-2	150	30	31.25	(2) 4x6 WOOD	NB	
15	N TONGASS HWY	206+05	LT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 17. USE 4" LETTERS, FONT SERIES C.
16	ROCKY POINT RD	206+05	LT	D3-1	48	8	2.67	-	NB/SB	MOUNT ABOVE SIGN # 17. USE 4" LETTERS, FONT SERIES C.
17	STOP	206+05	LT	R1-1	30	30	6.25	2.5 PST	WB	
18	N TONGASS HWY	210+60	LT	D3-1	48	36	12.00	-	EB/WB	MOUNT ABOVE SIGN # 20. USE 4" LETTERS, FONT SERIES C.
19	PT SUSAN RD	210+60	LT	D3-1	42	8	2.33	-	NB/SB	MOUNT ABOVE SIGN # 20. USE 4" LETTERS, FONT SERIES C.
20	STOP	210+60	LT	R1-1	30	30	6.25	2.5 PST	WB	
21	SCHOOL BUS STOP AHEAD	210+60	RT	S3-1	36	36	9.00	2.5 PST	SB	FLUORESCENT YELLOW-GREEN BACKGROUND
22	N TONGASS HWY	213+88	LT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 24. USE 4" LETTERS, FONT SERIES C.
23	KINGFISHER RD	213+88	LT	D3-1	42	8	2.33	-	NB/SB	MOUNT ABOVE SIGN # 24. USE 4" LETTERS, FONT SERIES C.
24	STOP	213+88	LT	R1-1	30	30	6.25	2.5 PST	WB	
25	STOP	216+70	RT	R1-1	30	30	6.25	2.5 PST	EB	
26	N TONGASS HWY	217+60	LT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 28. USE 4" LETTERS, FONT SERIES C.
27	COLLINS RD	217+60	LT	D3-1	36	8	2.00	-	NB/SB	MOUNT ABOVE SIGN # 28. USE 4" LETTERS, FONT SERIES C.
28	STOP	217+60	LT	R1-1	30	36	7.50	2.5 PST	WB	
29	N TONGASS HWY	237+68	LT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 31. USE 4" LETTERS, FONT SERIES C.
30	KLAWOCK LN	237+68	LT	D3-1	36	8	2.00	-	NB/SB	MOUNT ABOVE SIGN # 31. USE 4" LETTERS, FONT SERIES C.
31	STOP	237+68	LT	R1-1	30	30	6.25	2.5 PST	WB	
32	MILE 11	241+40	RT	D10-2	10	27	1.88	2.5 PST	SB	USE 4" LETTERS, FONT SERIES B. USE 6" NUMBERS, FONT SERIES D
33	MILE 11	241+74	LT	D10-2	10	27	1.88	2.5 PST	SB	USE 4" LETTERS, FONT SERIES B. USE 6" NUMBERS, FONT SERIES D
34	SPEED LIMIT 50	242+60	RT	R2-1	30	36	7.50	2.5 PST	SB	
35	N TONGASS HWY	243+85	LT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 37. USE 4" LETTERS, FONT SERIES C.
36	VICTORSON CT	243+85	LT	D3-1	42	8	2.33	-	NB/SB	MOUNT ABOVE SIGN # 37. USE 4" LETTERS, FONT SERIES C.
37	STOP	243+85	LT	R1-1	30	30	6.25	2.5 PST	WB	
38	SPEED LIMIT 50	244+69	LT	R2-1	30	36	7.50	2.5 PST	NB	
39	N TONGASS HWY	246+76	LT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 41. USE 4" LETTERS, FONT SERIES C.
40	COBURN RD	246+76	LT	D3-1	36	8	2.00	-	NB/SB	MOUNT ABOVE SIGN # 41. USE 4" LETTERS, FONT SERIES C.
41	STOP	246+76	LT	R1-1	30	30	6.25	2.5 PST	WB	
42	N TONGASS HWY	247+10	RT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 44. USE 4" LETTERS, FONT SERIES C.
43	CONNIE LN	247+10	RT	D3-1	30	8	1.67	-	NB/SB	MOUNT ABOVE SIGN # 44. USE 4" LETTERS, FONT SERIES C.
44	STOP	247+10	RT	R1-1	30	30	6.25	2.5 PST	EB	
45	N TONGASS HWY	249+80	RT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 47. USE 4" LETTERS, FONT SERIES C.
46	DRIFTWOOD LN	249+80	RT	D3-1	42	8	2.33	-	NB/SB	MOUNT ABOVE SIGN # 47. USE 4" LETTERS, FONT SERIES C.
47	STOP	249+80	RT	R1-1	30	30	6.25	2.5 PST	EB	
48	N TONGASS HWY	255+30	LT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 50. USE 4" LETTERS, FONT SERIES C.
49	SHULL RD	255+30	LT	D3-1	30	8	1.67	-	NB/SB	MOUNT ABOVE SIGN # 50. USE 4" LETTERS, FONT SERIES C.
50	STOP	255+30	LT	R1-1	30	30	6.25	2.5 PST	WB	
51	N TONGASS HWY	255+65	RT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 53. USE 4" LETTERS, FONT SERIES C.
52	BEACHWOOD RD	255+65	RT	D3-1	42	8	2.33	-	NB/SB	MOUNT ABOVE SIGN # 53. USE 4" LETTERS, FONT SERIES C.
53	STOP	255+65	RT	R1-1	30	30	6.25	2.5 PST	EB	
54	N TONGASS HWY	263+30	RT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 56. USE 4" LETTERS, FONT SERIES C.
55	MEADOWWOOD LN	263+30	RT	D3-1	48	8	2.67	-	NB/SB	MOUNT ABOVE SIGN # 56. USE 4" LETTERS, FONT SERIES C.
56	STOP	263+30	RT	R1-1	30	30	6.25	2.5 PST	EB	
57	SPEED LIMIT 50	266+50	LT	R2-1	30	36	7.50	2.5 PST	NB	
58	N TONGASS HWY	267+50	RT	D3-1	48	8	2.67	-	EB/WB	MOUNT ABOVE SIGN # 60. USE 4" LETTERS, FONT SERIES C.
59	JOHANNSEN RD	267+48	RT	D3-1	42	8	2.33	-	NB/SB	MOUNT ABOVE SIGN # 60. USE 4" LETTERS, FONT SERIES C.
60	STOP	267+48	RT	R1-1	30	30	6.25	2.5 PST	EB	
61	HORSE CROSSING (SYMBOL)	268+20	RT	W11-7	36	36	9.00	2.5 PST	SB	
62	OBJECT MARKER TYPE 3	273+55	LT	OM-3L	12	36	3.00	2.5 PST	SB	
63	WHIPPLE / CREEK	273+75	RT	I-3	72	36	18.00	(2) 4x6 WOOD	SB	8" UPPERCASE LETTERS, 6" LOWERCASE, CLEARVIEW SW FONT
64	OBJECT MARKER TYPE 3	273+80	RT	OM-3R	12	36	3.00	2.5 PST	SB	
65	WHIPPLE / CREEK	275+90	LT	I-3	72	36	18.00	(2) 4x6 WOOD	NB	8" UPPERCASE LETTERS, 6" LOWERCASE, CLEARVIEW SW FONT
66	OBJECT MARKER TYPE 3	276+20	LT	OM-3R	12	36	3.00	2.5 PST	NB	
67	LEFT CURVE (ARROW SYMBOL)	276+32	RT	W1-2L	30	30	6.25	-	SB	SIGN # 67 WILL BE MOUNTED ABOVE SIGN # 68
68	50 MPH (ADVISORY SPEED PLATE)	276+32	RT	W13-1	24	24	4.00	2.5 PST	SB	
69	OBJECT MARKER TYPE 3	276+49	RT	OM-3L	12	36	3.00	2.5 PST	NB	

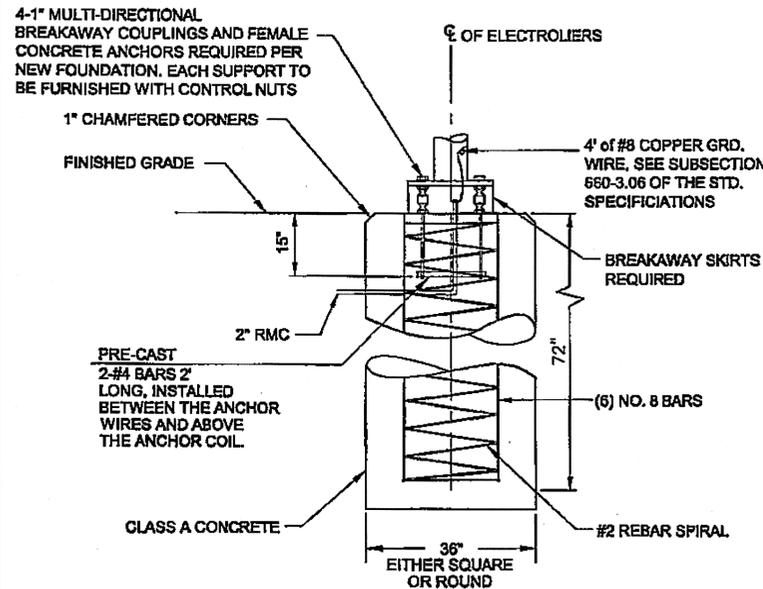
**NOTES:**

- REMOVE ALL SIGNS WITHIN THE PROJECT LIMITS THAT ARE TO BE REPLACED WITH SIGNS NOTED IN THE SIGN SUMMARY.
- FOR ALL SIGNS ON THE SIGN SUMMARY, NORTH TONGASS HIGHWAY IS ASSUMED TO RUN NORTH-SOUTH, WITH SOUTHBOUND VEHICLES HEADING IN THE DIRECTION OF DOWNTOWN KETCHIKAN.

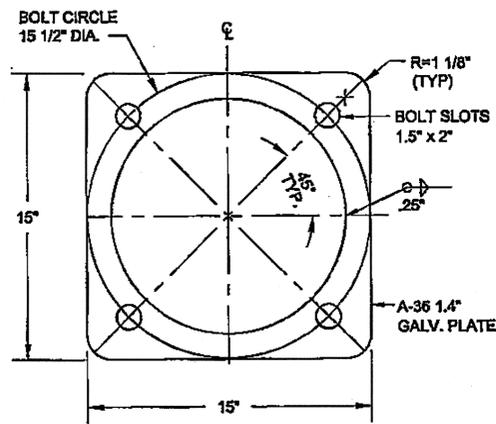
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date: 1/16/10

**DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS**

CHECKED BY: DAVID BRUCE EPSTEIN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>KETCHIKAN - N. TONGASS HWY.                  WARD COVE TO WHIPPLE CREEK                  STAGE 2                  TOTEM BIGHT TO WHIPPLE CREEK</b>			
DESIGNED BY: C. DIONISIO DRAWN BY: C. DIONISIO		<b>SIGN SUMMARY</b>			
PATH: Q:\KTN\67443\PLANS\SET1\67443_H5_SIGN-SUM.DWG TAB: H5 Friday, January 22, 2010 8:19:58 AM GRANHAM, RICK L (DOT)					
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION NH-ARA-0920(25) - 67443	YEAR 2010	SHEET NO. H5	TOTAL SHEETS 102

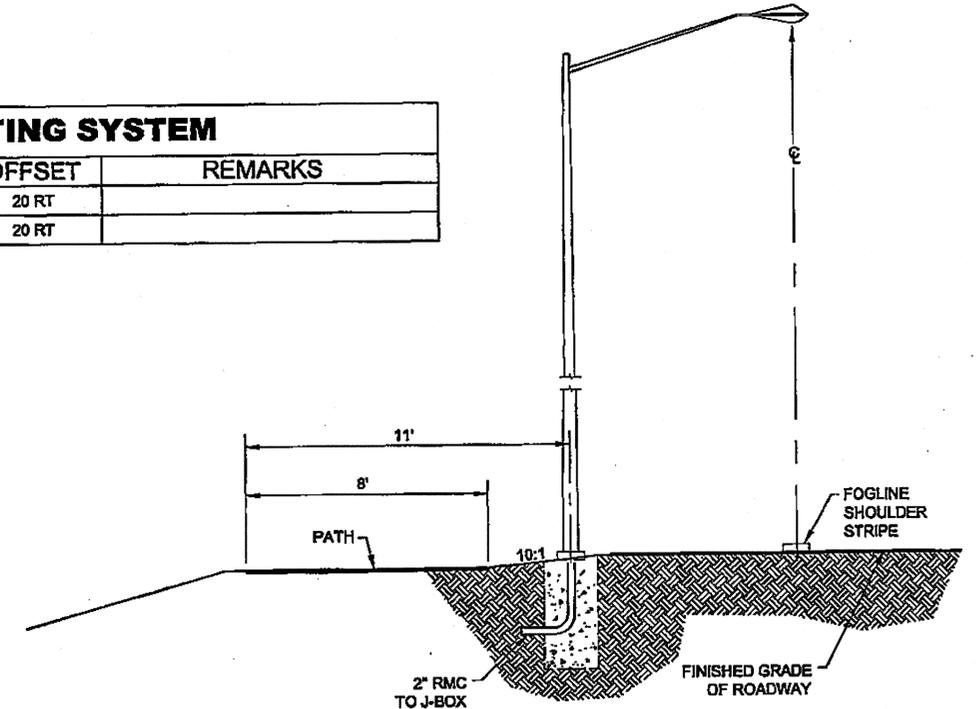


**FOUNDATION WITH BREAKAWAY COUPLINGS**



**ANCHOR BASE DETAIL**

LIGHTING SYSTEM			
	STATION	OFFSET	REMARKS
LUMINAIRE	216+88	20 RT	
J-BOX	216+82	20 RT	

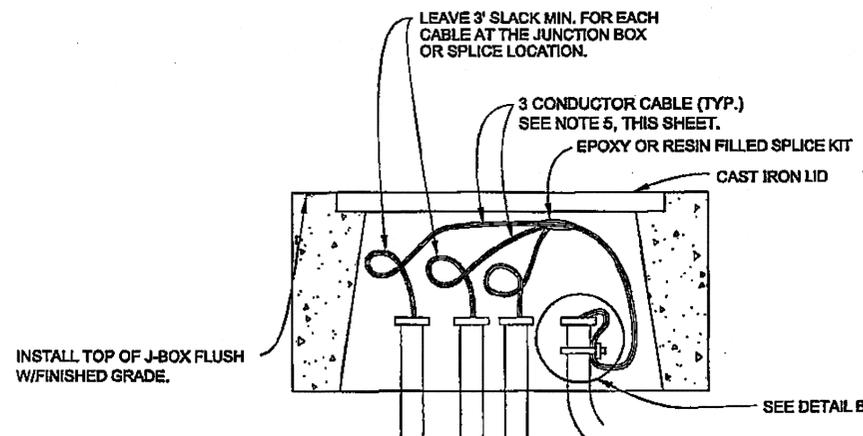


**TYPICAL SECTION FOR ELECTROLIER**

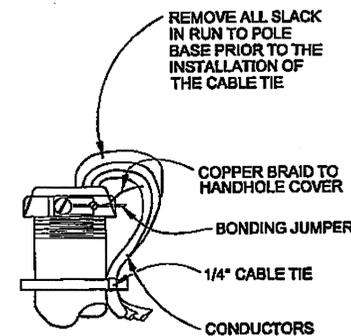
**ILLUMINATION GENERAL NOTES:**

- EACH NEW ELECTROLIER SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE FOUNDATION AS SHOWN IN THE POLE AND J-BOX WIRING DETAIL.
- ALL J-BOXES SHALL BE TYPE 1-A. 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.
- INSTALL A PHOTOELECTRIC CELL ON TOP OF EACH LUMINAIRE.
- ILLUMINATION CIRCUIT WIRES SHALL BE NO. 8 AWG, 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 660.
- NON-BREAKAWAY PORTIONS OF FOUNDATION SHALL NOT PROTRUDE MORE THAN 4" ABOVE ANY 5' CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.
- LUMINAIRES SHALL BE 120/208/240/277 VOLT, 250 WATT, HIGH PRESSURE SODIUM, MEDIUM CUTOFF OPTICS. PROVIDE IES TYPE II DISTRIBUTION PER DETAILS ON SHEET. HPS LAMPS SHALL HAVE 24,000 HOUR RATED LIFE. PROVIDE MAGNETIC REGULATOR BALLASTS, MULTIVOLT. THE LUMINAIRE SHALL BE GE M-250A2, CATALOG NUMBER M2AC25S0M2GMC2 OR APPROVED EQUAL.
- SET VOLTAGE OF MULTITAP BALLAST IN EACH LUMINAIRE FOR LIGHTING CIRCUIT SUPPLY VOLTAGE FROM UTILITY. CONTRACTOR TO COORDINATE DIRECTLY WITH KPU ELECTRIC.
- FOR EACH LIGHTING CIRCUIT, INSTALL CONDUIT TO THE UTILITY POLE INDICATED ON PLANS AS SOURCE OF ELECTRIC SERVICE (SEE UTILITY SHEETS). STUB CONDUIT UP POLE A MINIMUM OF 12 INCHES ABOVE FINISHED GRADE. INSTALL CONDUCTOR OF SUFFICIENT LENGTH TO ALLOW 36 INCH PIGTAIL AT WEATHERHEAD. FURNISH CONDUIT RISER, STANDOFFS AND WEATHERHEAD FOR UTILITY INSTALLATION. COORDINATE DIRECTLY WITH KPU ELECTRIC FOR ALL WORK AT UTILITY POLES.
- LUMINAIRE MAST ARMS SHALL BE 8 FOOT UNLESS NOTED ELSEWHERE.
- POLES SHALL BE 35 FOOT UNLESS NOTED ELSEWHERE.

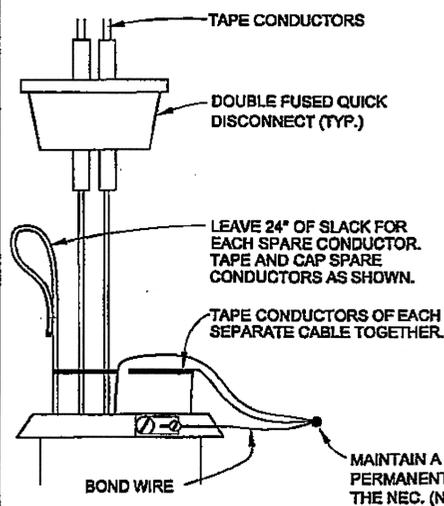
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE WJS Date 4/16/13



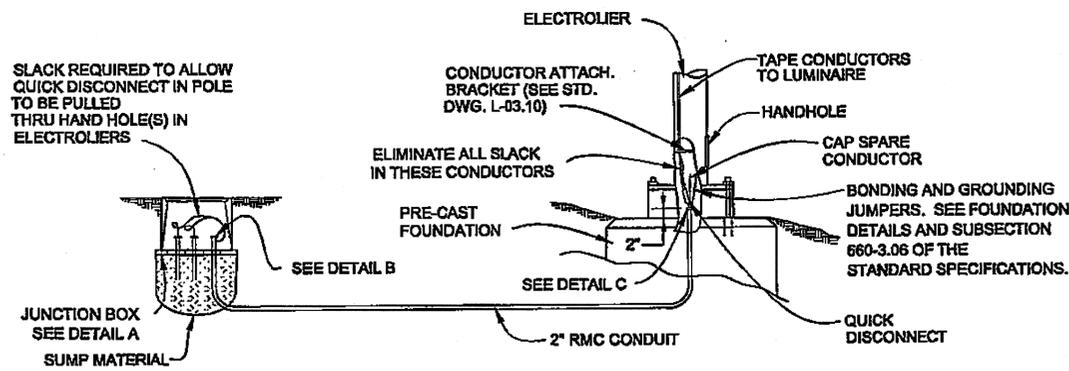
**DETAIL A**



**DETAIL B (IN J-BOX)**

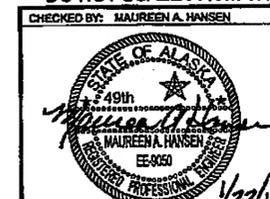


**DETAIL C (IN POLE BASE)**



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

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



DESIGNED BY: MAUREEN A. HANSEN  
 DRAWN BY: R. GRANTHAM

PATH: Q:\KTM\67443\PLANS\SET\67443\_H1-H6\_SIGN-ILLUM.DWG  
 TAB: H6 Friday, January 22, 2010 8:59:25 AM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD COVE TO WHIPPLE CREEK  
 STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**ILLUMINATION DETAILS**

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-ARA-0920(25) - 67443	2010	H6	102

### 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.

LEGEND	
	SIGN
	CONE
	DRUM
	TYPE III BARRICADE
	FLAGGING STATION

TCP TABLE SETUP			
SPEED (MILES PER HOUR)	BUFFER/LENGTH (FT.)	CONE/DRUM SPACING (FT.)	TAPER LENGTH (L)
20	115	20	7:1
25	155	25	10:1
30	200	30	15:1
35	250	35	20:1
40	305	40	30:1
45	360	45	45:1
50	425	50	60:1
55	495	55	85:1
60	570	60	110:1
65	645	65	145:1

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS  $L = \frac{W \times S^2}{60}$

45 MPH OF GREATER  $L = W \times S$

WHERE W=WIDTH OF OFFSET  
S= POSTED SPEED LIMIT

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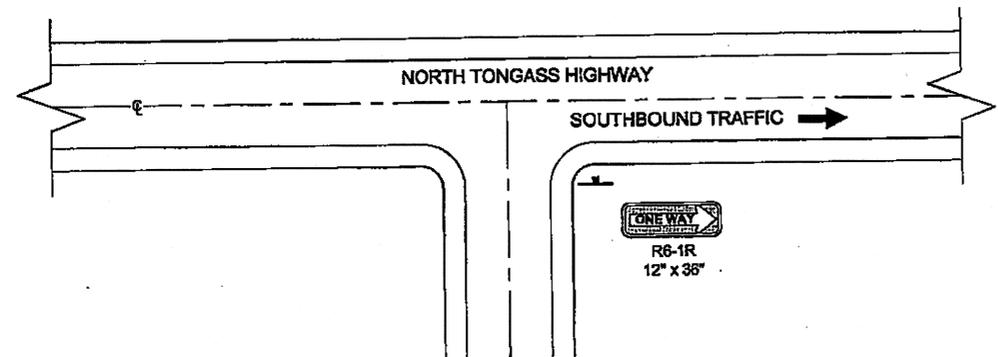
TAB: J1 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

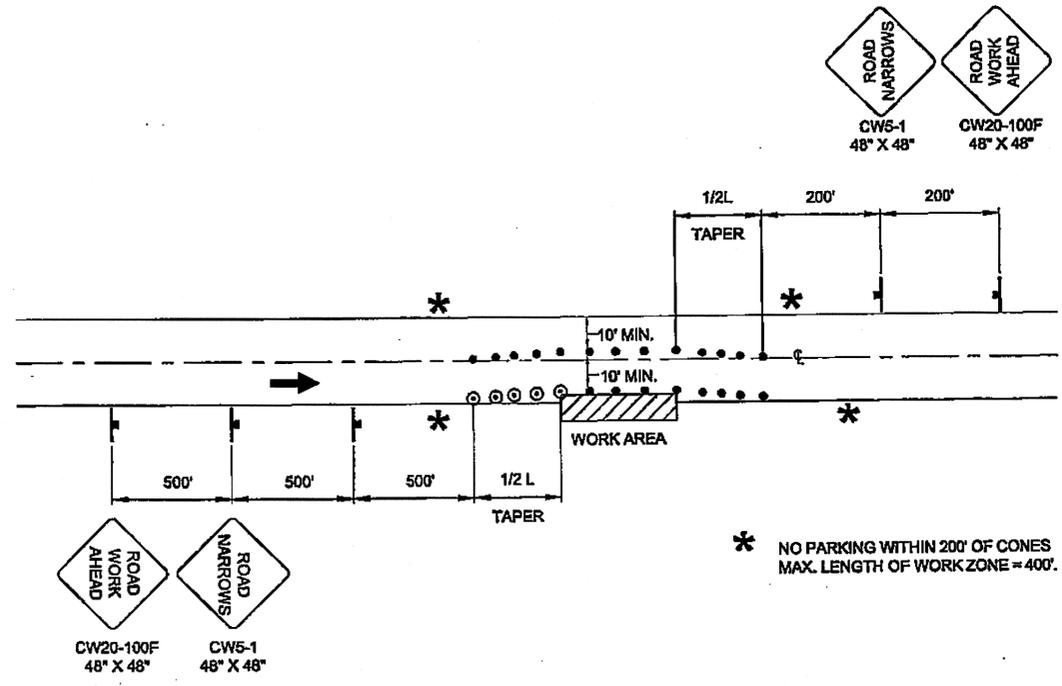
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

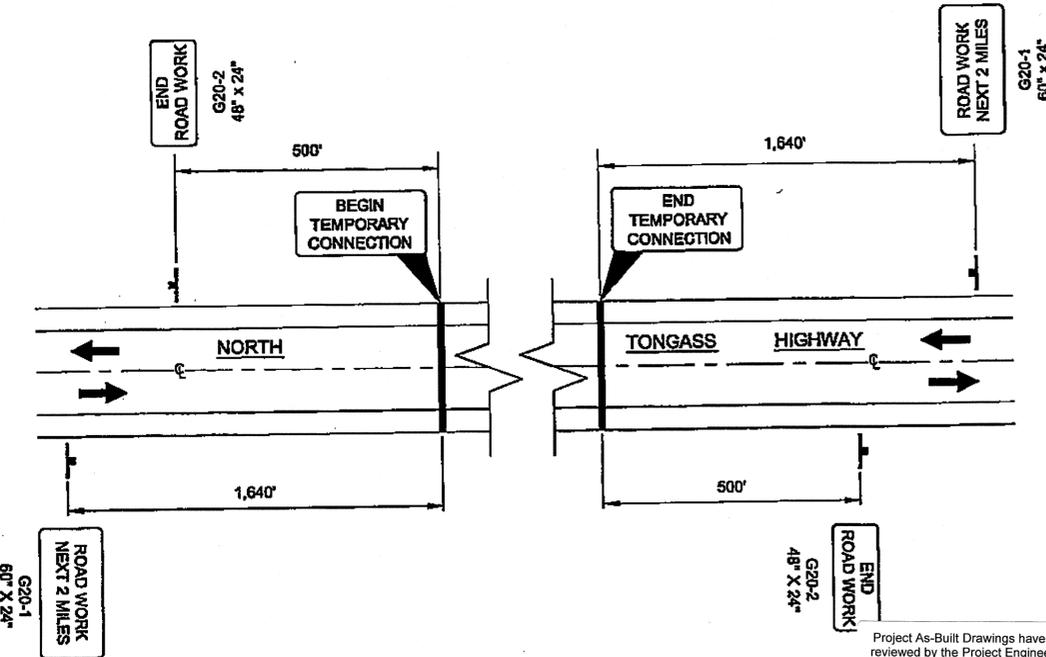


**TYPICAL APPROACH / DRIVEWAY SIGNING FOR ONE-WAY TRAFFIC ON NORTH TONGASS HIGHWAY**



**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**



**PERMANENT CONSTRUCTION SIGNING**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

**PLAN LEGEND**

CHECKED BY: DAVID BRUCE EPSTEIN

DESIGNED BY: C. DIONISIO  
DRAWN BY: C. DIONISIO

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY. WARD TO WHIPPLE - STAGE 2 TOTEM BIGHT TO WHIPPLE CREEK**

**TRAFFIC CONTROL PLAN**

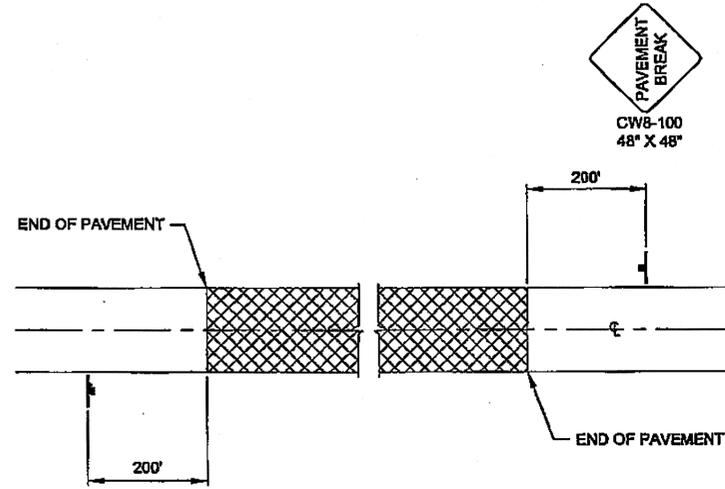
PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>

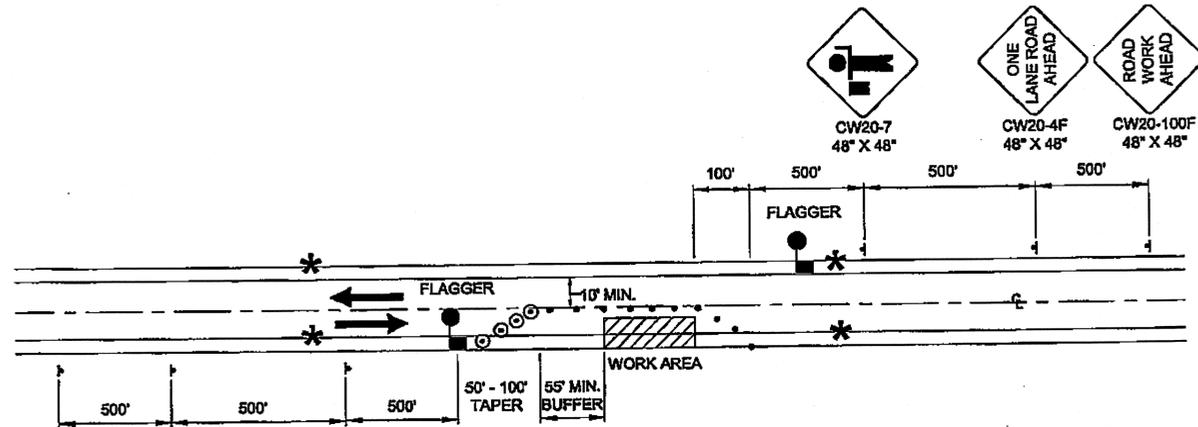
SHEET NUMBER	TOTAL SHEETS
<b>J1</b>	<b>102</b>

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

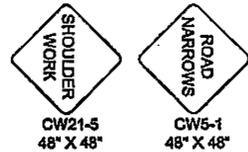
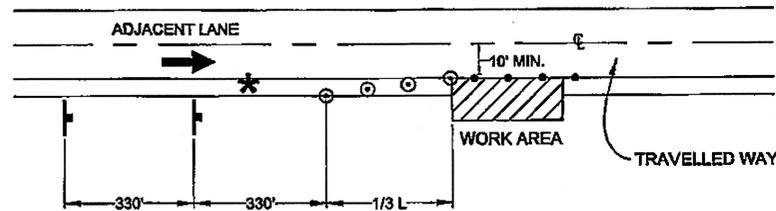


**SIGNING FOR UNPAVED AREAS**



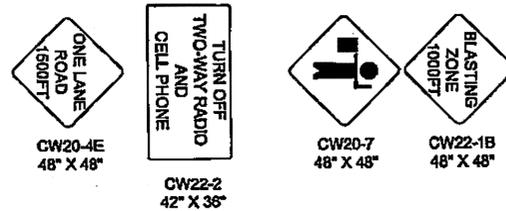
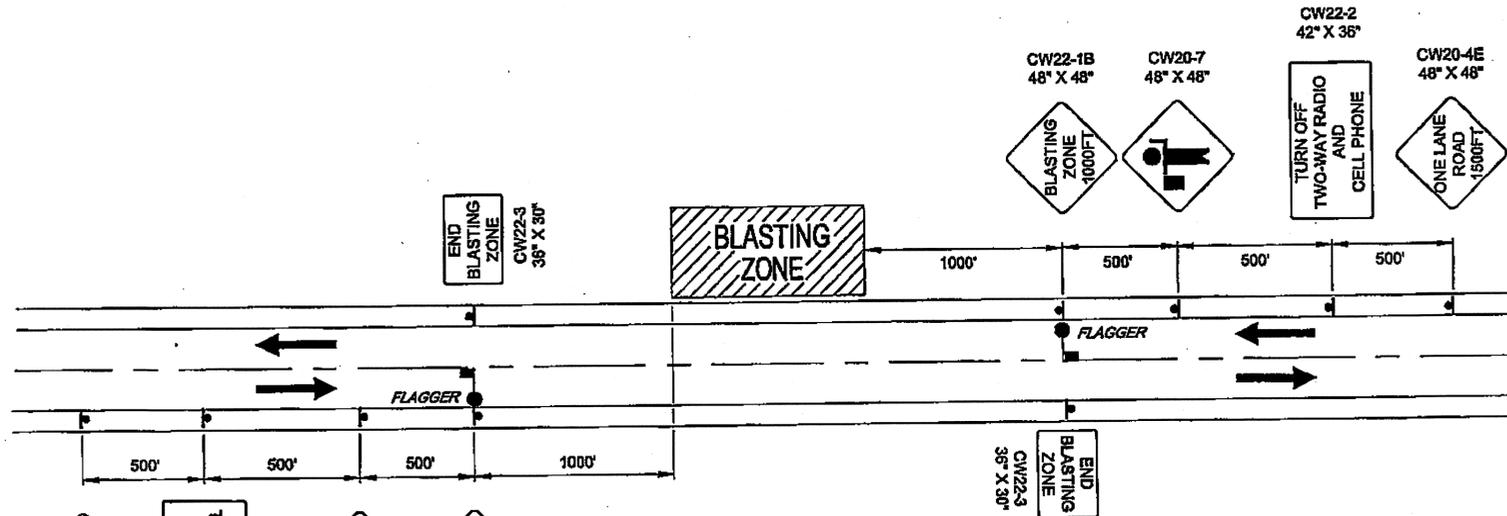
\* NO PARKING WITHIN 200' OF CONES

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



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

**SHOULDER WORK**



**TYPICAL BLASTING ZONE PLAN**

PATH: Q:\KTM\87443\PLANS\87443\_J1-J3\_TRAFFIC\_CTL.DWG

TAB: J2 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

**PLAN LEGEND**

CHECKED BY: DAVID BRUCE EPSTEIN



DESIGNED BY: C. DIONISIO

DRAWN BY: C. DIONISIO

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**TRAFFIC CONTROL PLAN**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
J2	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE *MS* Date 4/16/13

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH: Q:\KTM67443\PLANS\SET67443\_J1-J3\_TRAF CTL.DWG

TAB: J3 GRANTHAM, RICK L (DOT)

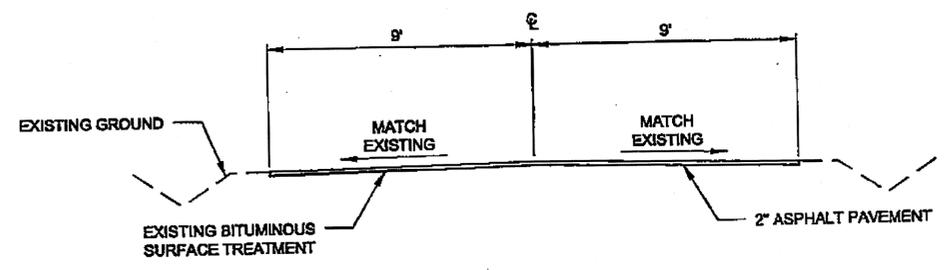
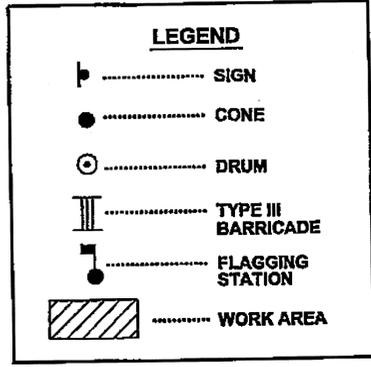
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ATTACHMENT NUMBER

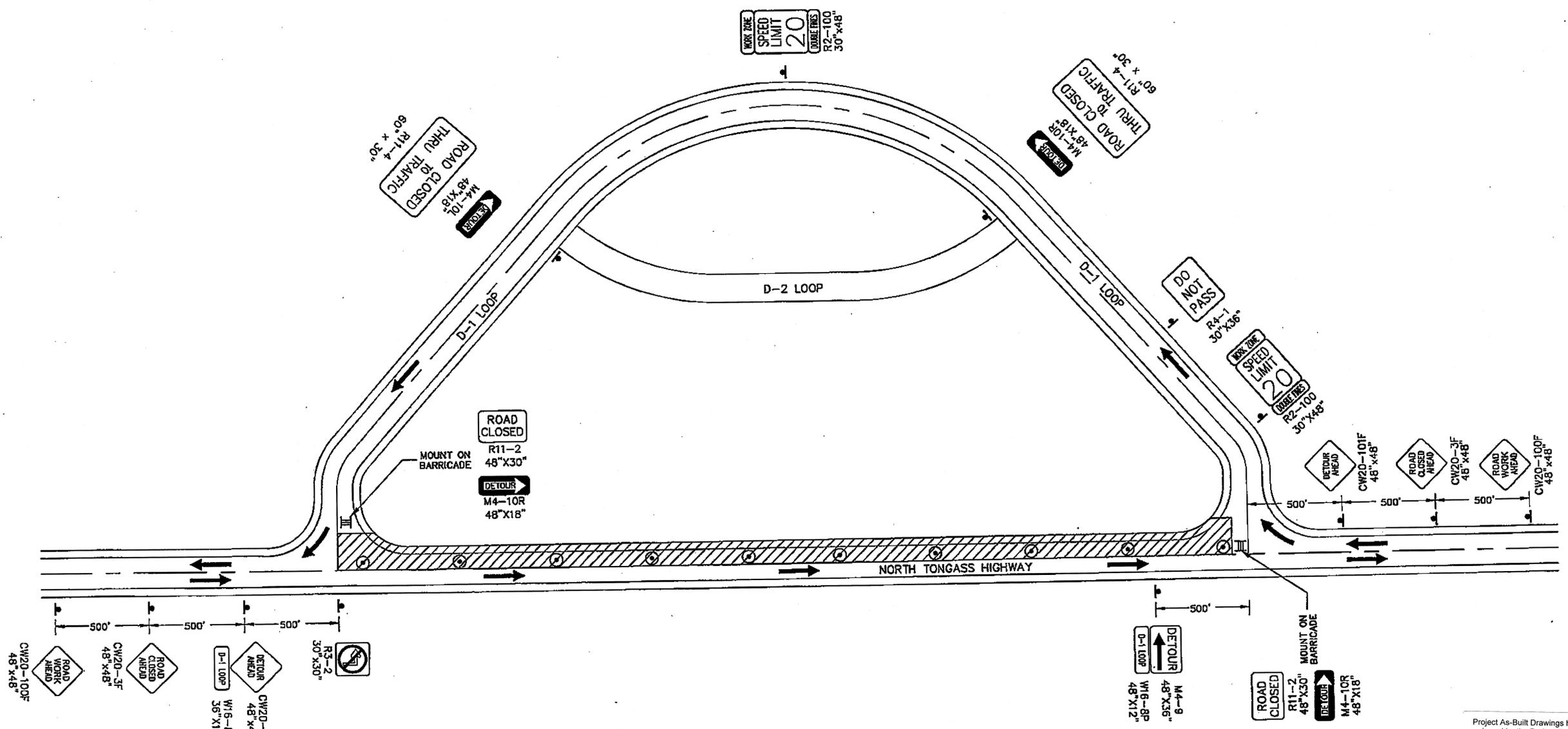
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

- NOTES:**
- SEE SECTION 643-3.08 CONSTRUCTION SEQUENCING FOR D-1 LOOP DETOUR RESTRICTIONS.
  - IF FLAGGERS ARE USED FOR THE DETOUR THE CONTRACTOR SHALL INCLUDE FLAGGER AHEAD SIGNS IN THE TRAFFIC CONTROL SET-UP.
  - THE DETOUR ON D-1 LOOP IS OPTIONAL. THE CONTRACTOR MAY ELECT TO CONTROL TRAFFIC THROUGH THE WORK ZONE WITH A STANDARD FLAGGER SET-UP.
  - THE DURATION OF THE D-1 LOOP DETOUR SHALL NOT EXCEED 60 DAYS.
  - EXACT LOCATIONS OF DETOUR SIGNS TO BE DETERMINED BY THE ENGINEER.
  - SEGMENTS ALONG D-1 LOOP IDENTIFIED BY THE ENGINEER FOR DETOUR PAVING SHALL BE PAVED PRIOR TO OPENING D-1 LOOP FOR A DETOUR ROUTE.
  - USE OF D-2 LOOP AS A DETOUR ROUTE WILL NOT BE ALLOWED.



**D-1 LOOP DETOUR PAVING TYPICAL**  
 REMOVE 2\"/>



**D-1 LOOP DETOUR**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *WBS* Date: *11/11/13*

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

**PLAN LEGEND**

CHECKED BY: DAVID BRUCE EPSTEIN



DESIGNED BY: C. DIONISIO

DRAWN BY: C. DIONISIO

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM RIGHT TO WHIPPLE CREEK**

**TRAFFIC CONTROL PLAN**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>J3</b>	<b>102</b>

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TAB: P1 GRANTHAM, RICK L (DOT)

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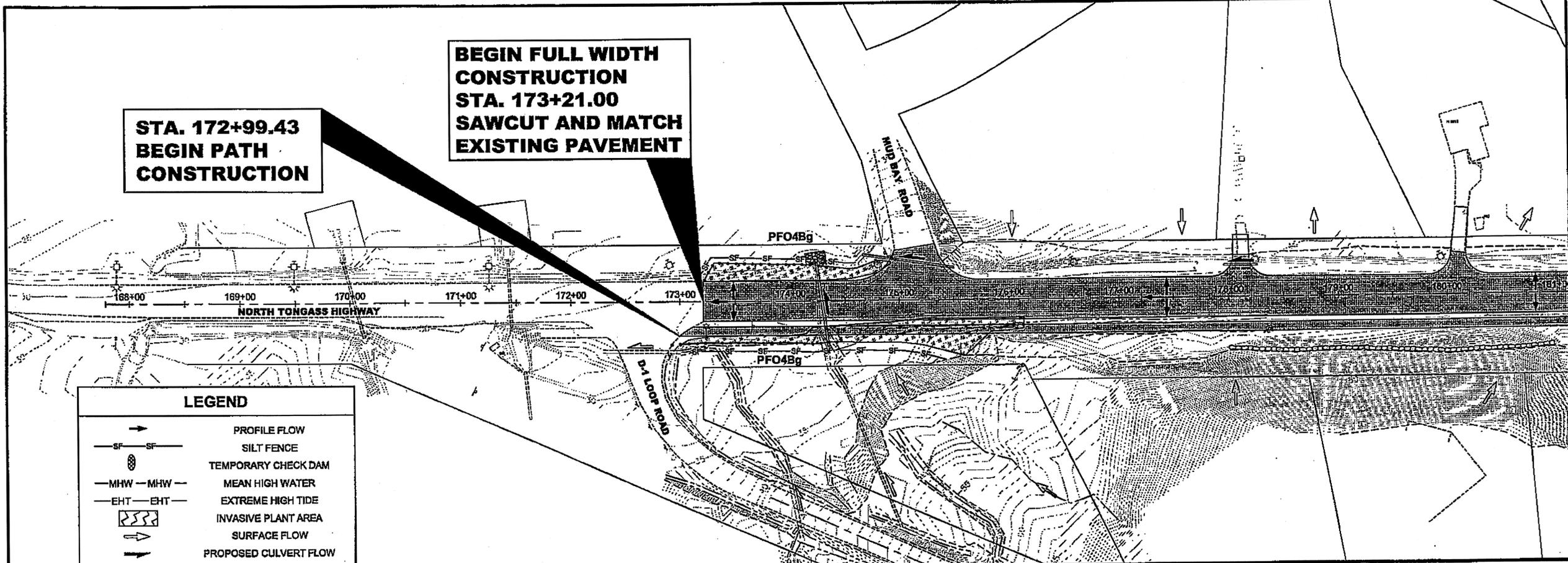
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

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BEGIN PATH  
CONSTRUCTION**

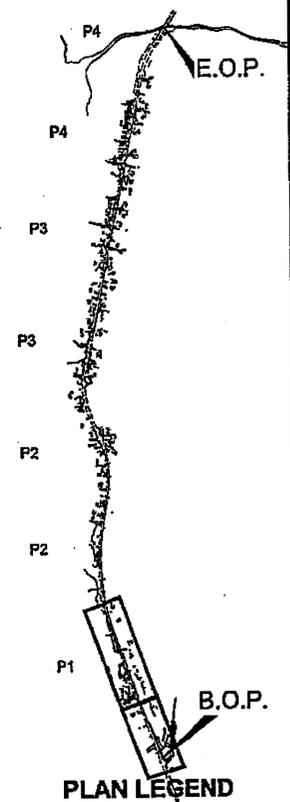
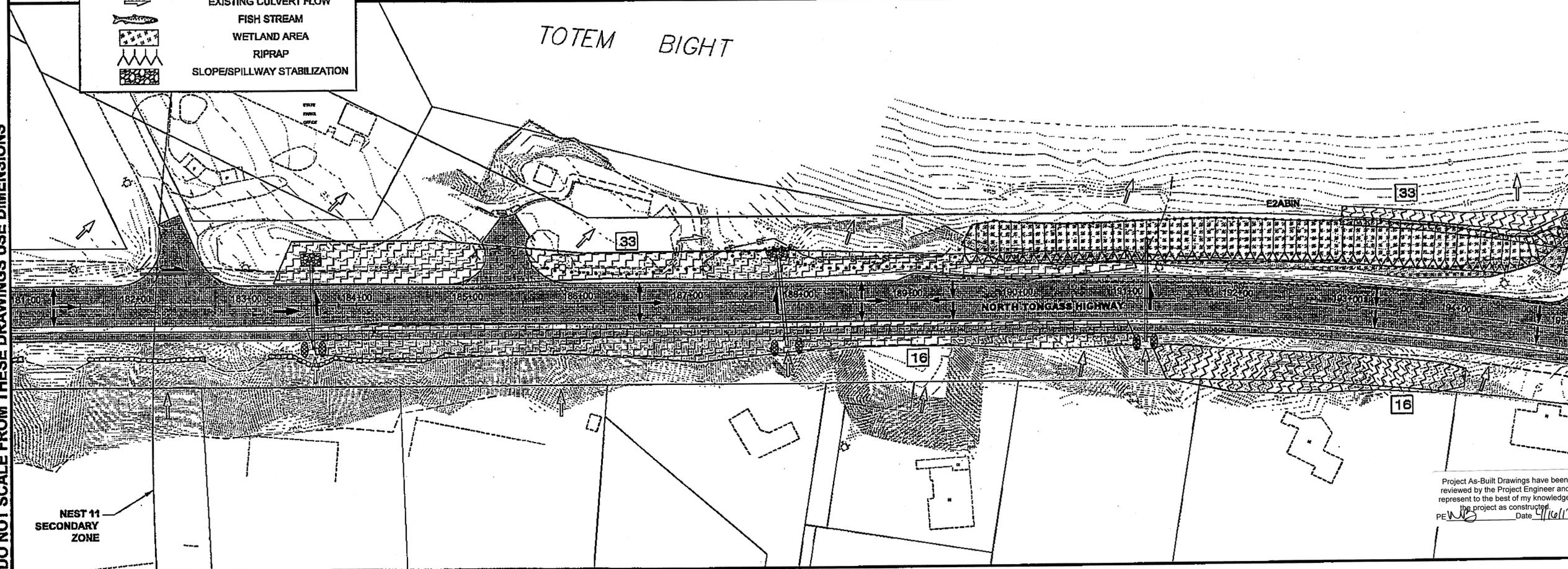
**BEGIN FULL WIDTH  
CONSTRUCTION  
STA. 173+21.00  
SAWCUT AND MATCH  
EXISTING PAVEMENT**



**LEGEND**

	PROFILE FLOW
	SILT FENCE
	TEMPORARY CHECK DAM
	MEAN HIGH WATER
	EXTREME HIGH TIDE
	INVASIVE PLANT AREA
	SURFACE FLOW
	PROPOSED CULVERT FLOW
	EXISTING CULVERT FLOW
	FISH STREAM
	WETLAND AREA
	RIPRAP
	SLOPE/SPILLWAY STABILIZATION

TOTEM BIGHT



CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

**EROSION &  
SEDIMENT  
CONTROL PLANS**

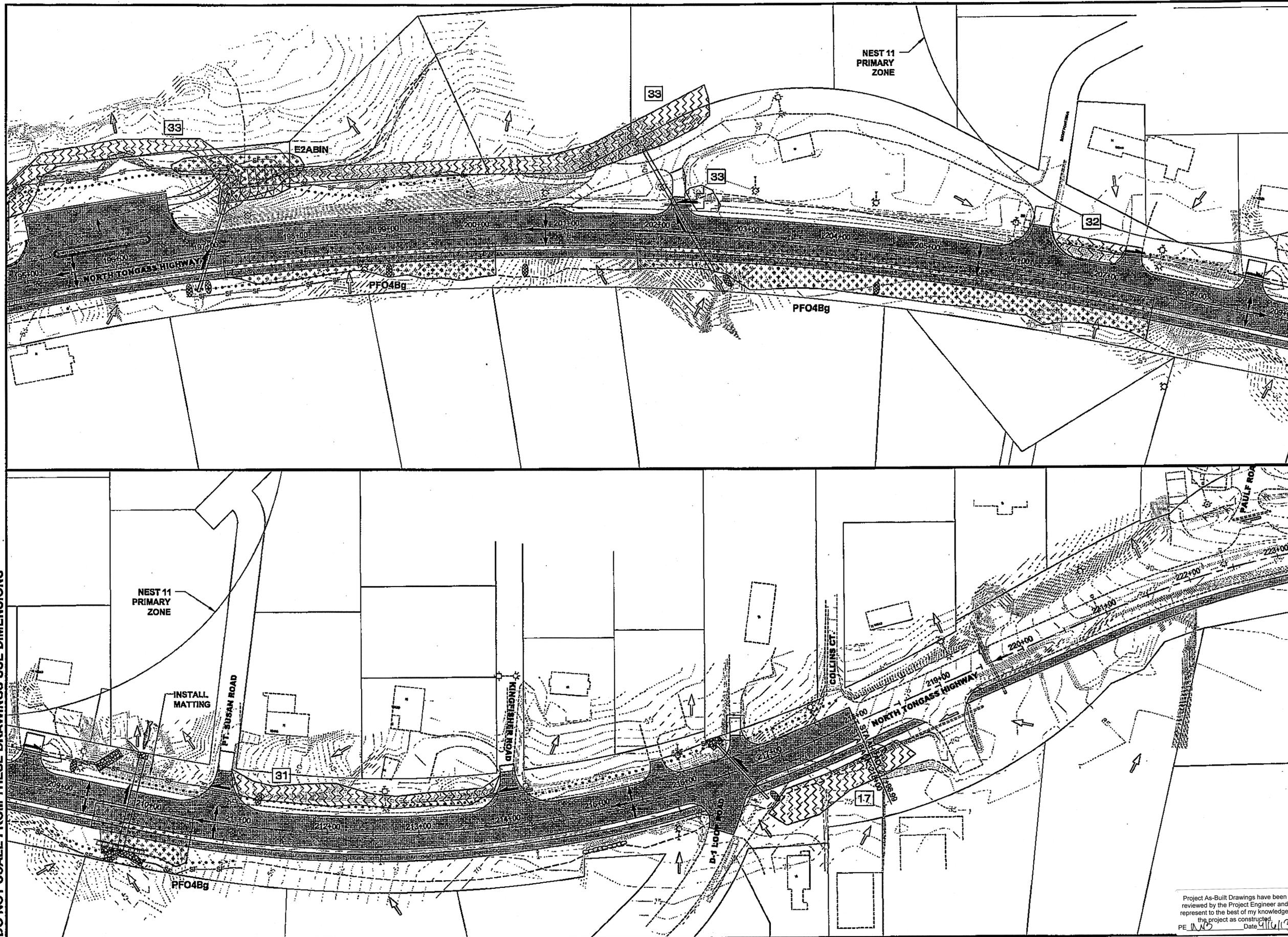
PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
P1	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Date 4/16/13  
PE WJG

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: Q:\KTN\67443\PLANSET\67443\_P1-P4\_ESCP.DWG  
 TAB: P2 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: C. HOWARD  
  
 DESIGNED BY: D. LESTER J. WEAVER  
 DRAWN BY: R. GRANTHAM  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY. WARD TO WHIPPLE - STAGE 2 TOTEM BIGHT TO WHIPPLE CREEK**  
**EROSION & SEDIMENT CONTROL PLANS**  
 PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**  

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
P2	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *RND* Date: *4/16/13*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



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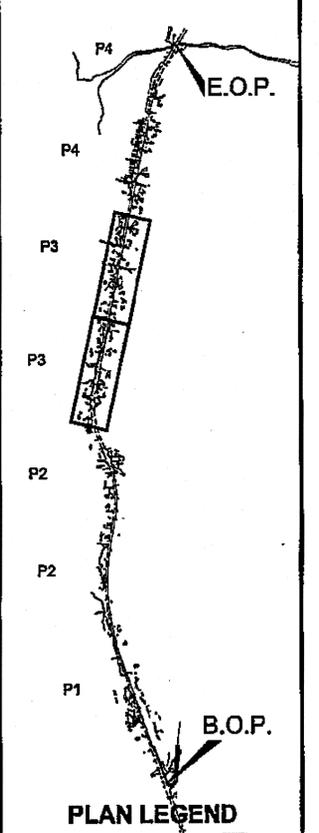
TAB: P3 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

DESIGNED BY: D. LESTER-J. WEAVER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

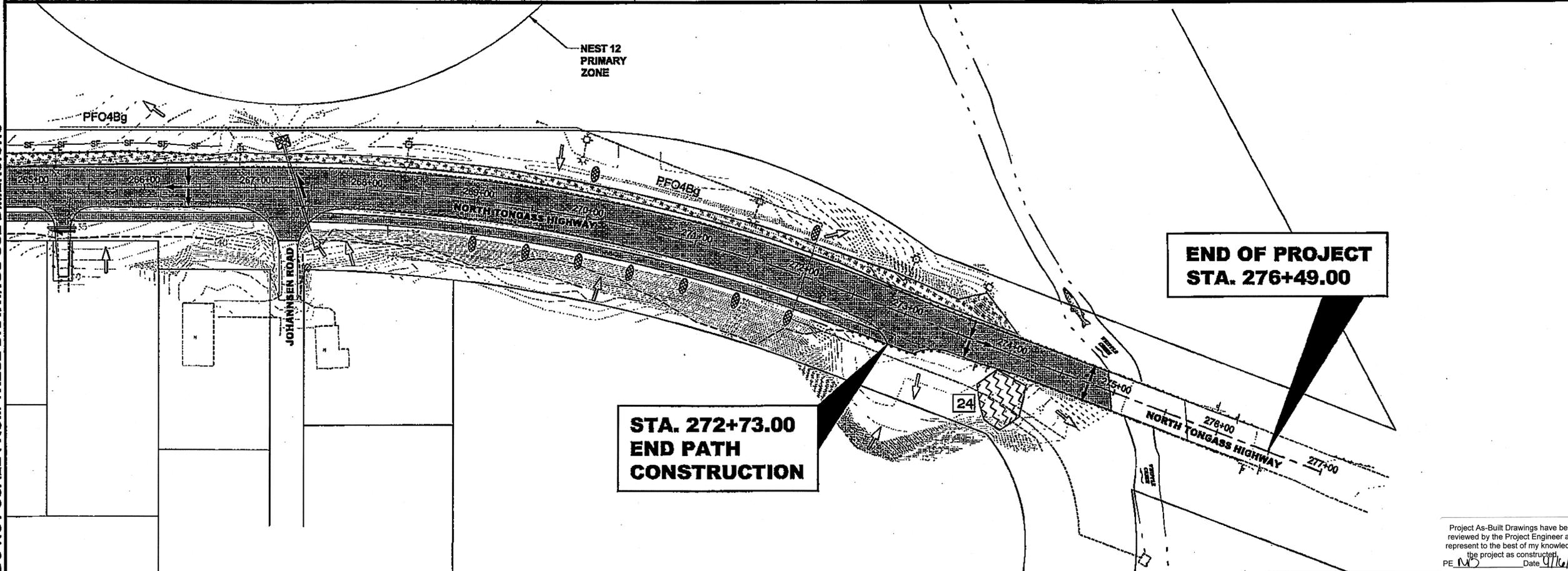
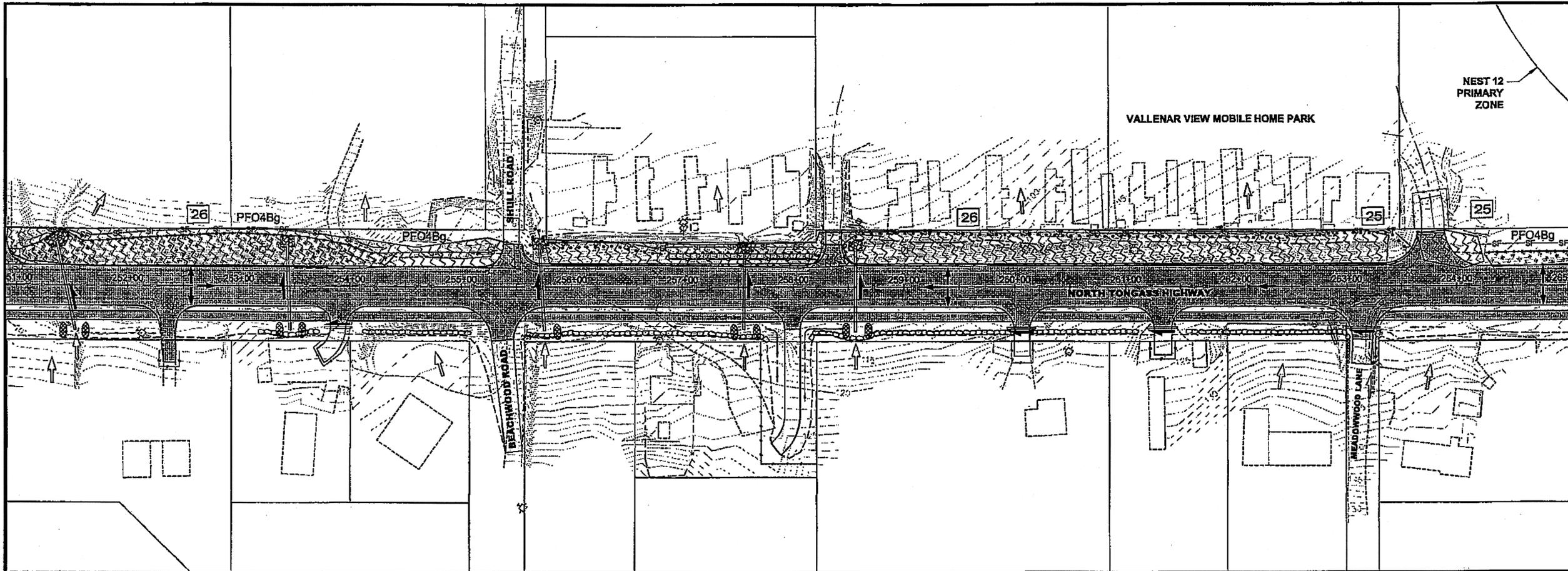
**EROSION & SEDIMENT CONTROL PLANS**

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
P3	102

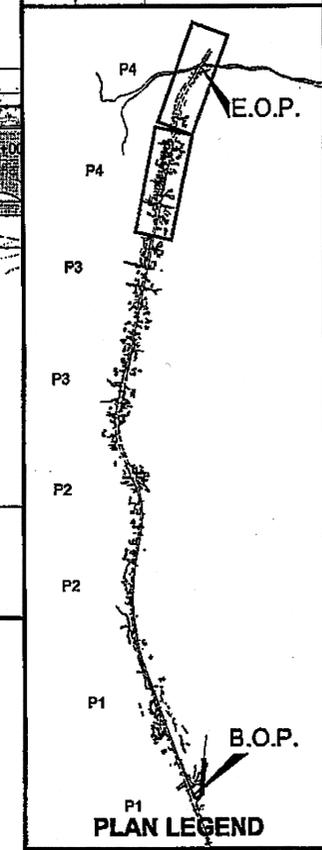
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *WJ* Date: 1/16/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: Q:\KTN\67443\PLAN\BET\67443\_P1-P4\_ESCP.DWG  
 TAB: P4 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD



DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

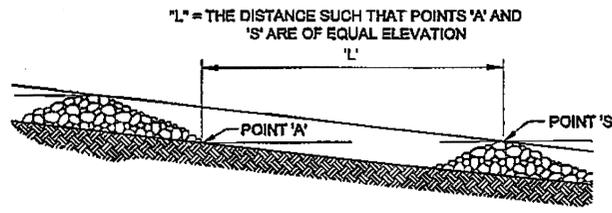
KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**EROSION & SEDIMENT CONTROL PLANS**

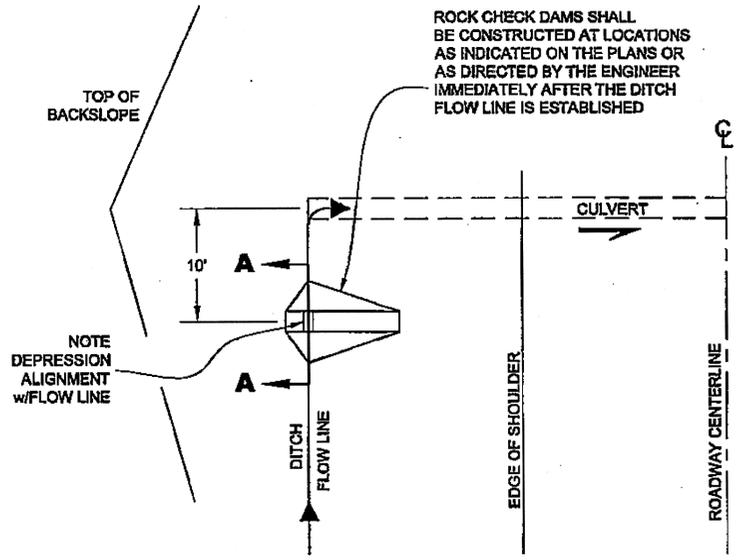
PROJECT DESIGNATION  
 NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
P4	102

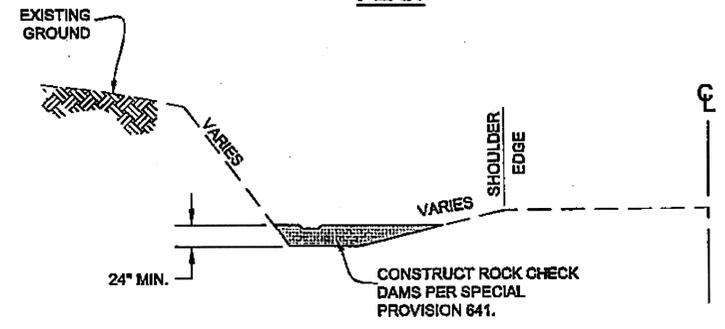
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed. Date: 9/16/13  
 PE: MD



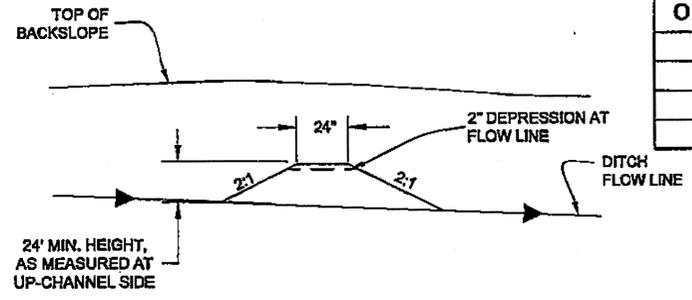
**SPACING BETWEEN CHECK DAMS**



**PLAN**



**ELEVATION**



**SECTION A-A**

**TEMPORARY CHECK DAM DETAILS**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

633(1) SILT FENCE					
FROM		TO		LENGTH	REMARKS
STATION	OFFSET	STATION	OFFSET		
173+02	46 RT	175+43	54 RT	240	
173+17	21 LT	174+60	34 LT	155	
187+16	37 LT	189+40	47 LT	240	
194+96	96 LT	199+99	45 LT	550	
196+72	46 RT	198+67	45 RT	190	
208+71	48 RT	211+10	46 RT	250	
215+83	38 LT	216+82	35 LT	75	
231+25	41 LT	232+05	37 LT	85	
238+03	41 RT	238+89	43 RT	90	
238+53	36 LT	241+18	42 LT	275	
239+02	42 RT	239+58	42 RT	55	
239+70	44 RT	241+13	44 RT	145	
241+41	50 LT	242+20	40 LT	85	
242+43	35 LT	242+80	36 LT	40	
244+73	38 LT	245+72	39 LT	100	
245+93	40 LT	246+85	38 LT	95	
247+15	37 LT	247+72	38 LT	60	
251+13	40 LT	254+33	35 LT	325	
255+80	39 LT	258+31	35 LT	250	
258+47	37 LT	263+65	35 LT	530	
264+23	37 LT	266+72	38 LT	250	

203(21) INVASIVE PLANTS BY SPECIES						
SITE NO.	BEGIN STATION	END STATION	AREA (SQ FT)	PERCENT COVER	COVER CLASS	REMARKS
<b>TANSY RAGWORT</b>						
NT28	241+00		1,200	10	M	
<b>REED CANARY GRASS</b>						
NT16	183+50	194+10	1,680	5 TO 10	M	
NT33	183+20	202+60	10,000	50	H	
NT31	210+85	213+94	1,000	30	H	
NT17	216+72	218+40	400	20	M	
NT27	241+50		25	50	H	
NT25	262+80	264+25	1,400	100	H	
NY26	249+43	263+35	4,600	50	H	
NT24	274+28		100	50	H	
<b>OXEYE DAISY</b>						
NT22	237+11	237+78	75	50	H	
NT24	274+10		100	30	H	
<b>ORANGE HAWKWEED</b>						
NT32	206+30	207+14	230	100	H	
NT29	230+80	231+77	180	10	M	
NT21	235+90	236+35	25	50	H	
NT23	250+44		100	50	H	

**EROSION AND SEDIMENT CONTROL NOTES:**

- REFER TO APPENDIX B OF THE CONTRACT DOCUMENTS FOR THE ENVIRONMENTAL COMMITMENTS, PERMITS, AND EROSION AND SEDIMENT CONTROL PLAN.
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE EARTH DISTURBING ACTIVITIES.
- EROSION AND SEDIMENT CONTROL DEVICES REQUIRE INSPECTION AND MAINTENANCE TO INSURE THEY ARE FUNCTIONING. SEE SECTION 641 OF THE SPECIAL PROVISIONS.
- IF INSPECTION REVEALS SEDIMENT IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. ADDITIONAL EROSION OR SEDIMENT CONTROL DEVICES MAY BE REQUIRED.
- STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABILIZED SURFACES MUST BE TEMPORARILY STABILIZED WITH SEEDING OR OTHER EFFECTIVE MEASURES WITHIN 14 DAYS OF CESSATION OF LAND DISTURBING ACTIVITIES IN THE VICINITY. SEE SECTION 641-3.01 OF THE SPECIAL PROVISIONS. MAINTAIN EROSION AND SEDIMENT CONTROL UNTIL PROJECT WORK AREAS ARE SEEDED AND HAVE ACHIEVED 70% VEGETATIVE COVER.

**641(6) TEMPORARY ROCK CHECK DAM**

STATION	OFFSET	REMARKS
183+52	40 RT	
183+68	40 RT	
187+78	40 RT	
188+00	40 RT	
191+08	40 RT	
191+25	40 RT	
196+75	40 RT	
196+97	40 RT	
199+00	40 RT	
200+53	45 RT	
202+80	50 RT	
204+50	45 RT	
209+10	30 LT	
211+20	30 LT	
216+90	40 RT	
239+95	44 RT	
240+15	44 RT	
242+08	40 RT	
251+45	40 RT	
251+65	40 RT	
253+40	40 RT	
253+60	40 RT	
255+90	40 RT	
257+50	40 RT	
257+70	40 RT	
258+50	40 RT	
258+70	40 RT	
269+00	40 RT	
269+50	40 RT	
270+00	40 RT	
270+00	40 LT	
270+50	40 RT	
271+00	40 RT	
271+50	40 RT	
272+00	40 RT	
272+00	40 LT	

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 TAB: P5 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  
 No. DATE DESCRIPTION

**PLAN LEGEND**

CHECKED BY: C. HOWARD  
  
 DESIGNED BY: D. LESTER-J. WEAVER  
 DRAWN BY: R. GRANTHAM

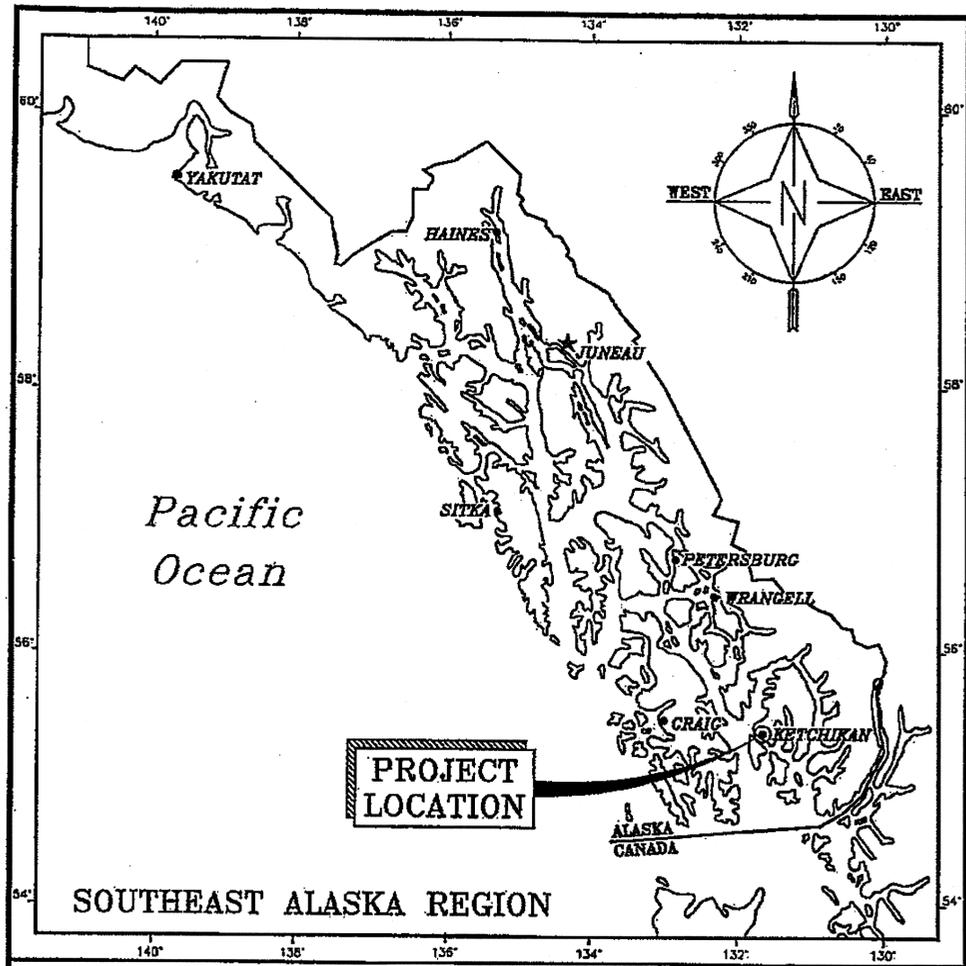
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
 KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

**EROSION & SEDIMENT CONTROL PLANS**

PROJECT DESIGNATION  
 NH-ARA-0920(25) - 67443

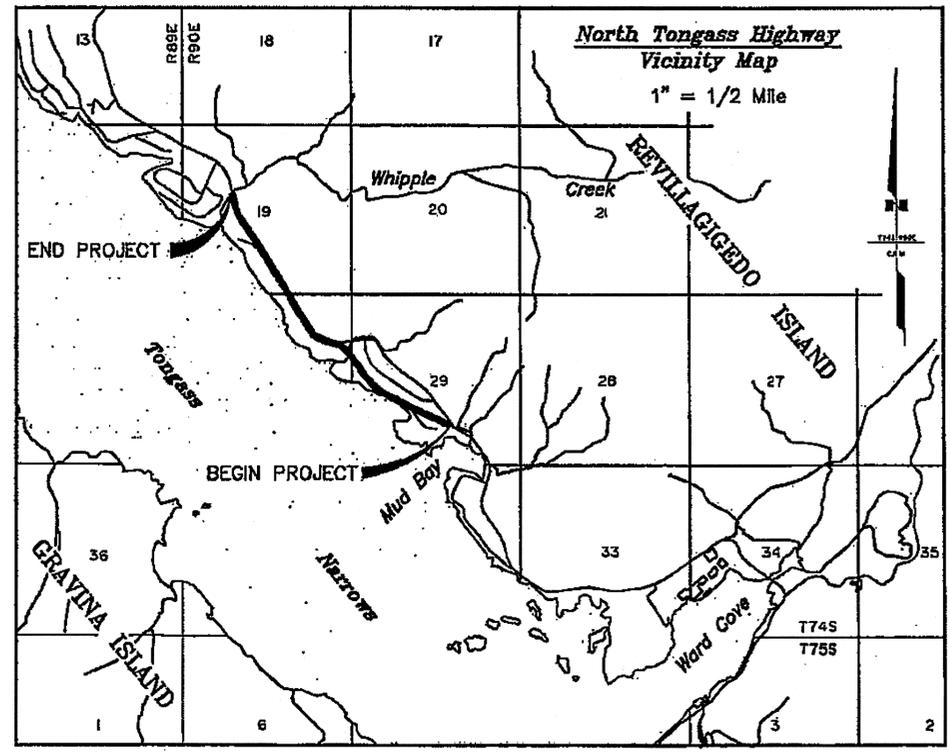
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
P5	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 4/10/13



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES

SOUTHEAST REGION  
RIGHT OF WAY MAP  
ALASKA PROJECT  
KETCHIKAN  
NORTH TONGASS HIGHWAY  
WARD COVE TO  
WHIPPLE CREEK  
STP-0920(19) 67600



**SURVEYOR'S CERTIFICATE**  
I HEREBY CERTIFY that I am properly registered and licensed to practice land surveying in the State of Alaska and that this plat was made by me or under my supervision. I declare that this plat was based on the Right of Way Map of North Tongass Highway recorded as Plat 2008-45, Ketchikan Recording District and that all dimensions and other details are accurate.  
*Robert B. Murphy* 1-29-10  
Robert B. Murphy Date

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PEW Date 4/16/13

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

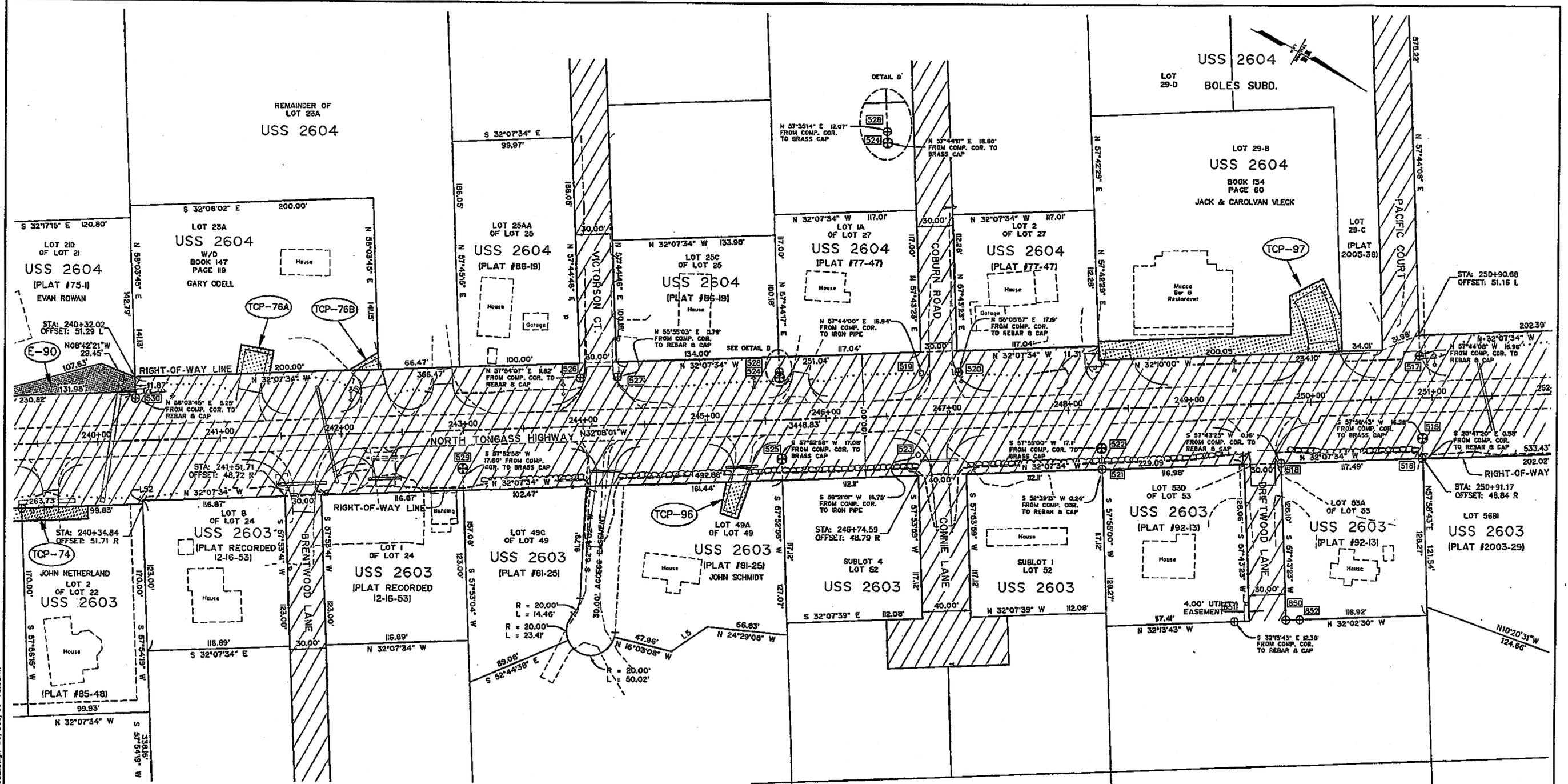
APPROVED \_\_\_\_\_, 20\_\_\_\_  
Date

Chief Right of Way Agent  
Southeast Region

(STAGE 2, D-I LOOP RD. TO WHIPPLE CREEK)

KETCHIKAN RECORDING DISTRICT

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EASEMENT	OWNER	AREA	PURPOSE	RECORDING DATA
E-90	SEE SHEET 9			

TEMPORARY CONSTRUCTION PERMIT			
TCP NO.	OWNER	AREA	PURPOSE
TCP-76A	GARY ODELL	563 S.F.	RECONSTRUCT DRIVEWAY
TCP-76B	GARY ODELL	185 S.F.	RECONSTRUCT DRIVEWAY
TCP-96	JOHN SCHMIDT	494 S.F.	RECONSTRUCT DRIVEWAY
TCP-97	JACK & CAROLVAN VLECK	4487 S.F.	RECONST. P. LOT & DRIVEWAYS

LINE TABLE		
LINE	BEARING	LENGTH
L52	S57°54'19"W	3.00'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 4/11/13

[607] SEE EXISTING MONUMENT SUMMARY ON SHEET 13

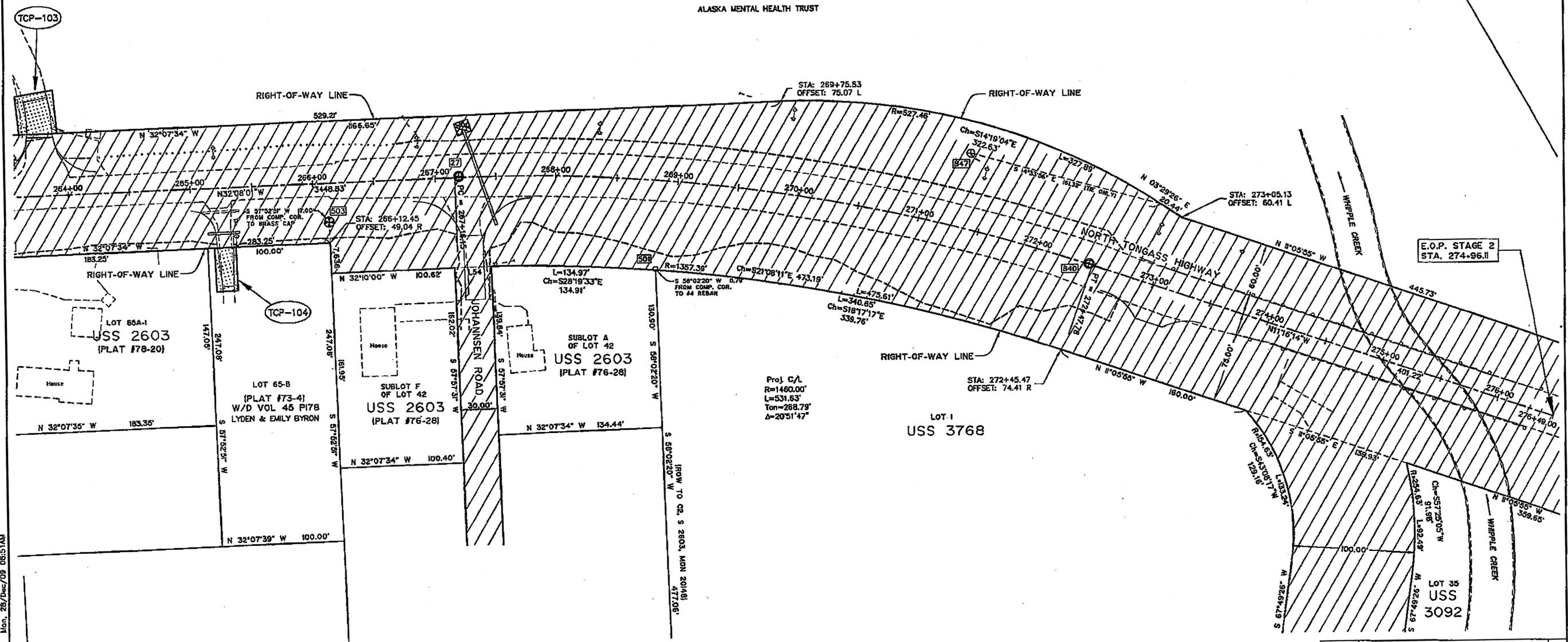
DATE	REVISIONS	BY
05/2008	ADD BOLES SUBDIVISION IN LOT 29 USS 2604	GY

**STATE OF ALASKA**  
 DEPARTMENT OF TRANSPORTATION  
 &  
 PUBLIC FACILITIES  
 RIGHT OF WAY MAP  
 ALASKA PROJECT NO. STP-0920(19) ~ 67600  
 KETCHIKAN ~ NORTH TONGASS HIGHWAY  
 WARD COVE TO WHIPPLE CREEK, STAGE 2

DRAWN	ROW	DATE	12/2007	SCALE	1"=40'
CHECKED		DATE		SHEET	R10 OF



LOT 35  
 USS 3092  
 ALASKA MENTAL HEALTH TRUST



Proj. C/L  
 R=1460.00'  
 L=531.63'  
 Ton=268.79'  
 Δ=20°51'47"

TEMPORARY CONSTRUCTION PERMIT			
TCP NO.	OWNER	AREA	PURPOSE
TCP-103	ALASKA MENTAL HEALTH TRUST	SEE SH. 11	RECONSTRUCT DRIVEWAY
TCP-104	LYDEN & EMILY BYRON	612 S.F.	RECONSTRUCT DRIVEWAY

LINE TABLE		
LINE	BEARING	LENGTH
L54	S31°46'40"E	30.00'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: WJ Date: 4/16/13

DATE	REVISIONS	BY

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 &  
 PUBLIC FACILITIES  
 RIGHT OF WAY MAP  
 ALASKA PROJECT NO. STP-0920(19) ~ 67600  
 KETCHIKAN ~ NORTH TONGASS HIGHWAY  
 WARD COVE TO WHIPPLE CREEK, STAGE 2

SEE EXISTING MONUMENT SUMMARY ON SHEET 13

DRAWN	ROW	DATE	12/2007	SCALE	1"=40'
CHECKED		DATE		SHEET	R12 OF

Mon, 28/Dec/09 09:51AM  
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# MONUMENT SUMMARY

EXISTING MONUMENT SUMMARY					
NUMBER	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
1472	1315473.71	3081037.36	170+00.52	54.86_RT	DOT&PF AL CAP S812/ROW
1475	1315658.41	3080771.45	173+20.04	107.16_RT	DOT&PF AL CAP S812/ROW
1479	1315615.57	3080751.02	175+20.05	59.70_RT	DOT&PF AL CAP S812/ROW
608	1315487.27	3080488.80	175+01.54	168.85_LT	BPR BC C4 LOT D S2606
607	1315482.91	3080488.82	175+03.94	163.85_LT	GLO BC WC4 LOT D S2606
608	1315618.76	3080487.50	175+56.29	90.82_LT	IRON PIPE
609	1315634.26	3080487.73	175+65.75	36.73_LT	BLM BC C3 LOT Q S2606
610	1315718.77	3080486.38	176+03.33	36.88_RT	IRON PIPE
611	1315723.15	3080486.60	176+05.02	43.02_RT	BLM BC POL S812
612	1315729.96	3080486.32	176+08.20	49.05_RT	ADL PRM SE COR B2 L24 ASLS 81-39
1474	1315741.81	3080486.20	176+13.33	59.52_RT	DOT&PF AL CAP S812/ROW
20080	1315956.28	3080484.23	177+07.48	292.45_RT	BLM BC C6 USE 2204
614	1315799.14	3080107.00	179+80.38	51.73_LT	BC MON ROW LOT Q LOT P S2606
616	1315903.23	3080106.99	180+25.18	42.22_RT	GLO BC CS S2606
599	1315553.31	3079910.58	180+51.90	398.16_LT	DOT AL PRM ROW MON
600	1315682.75	3079915.38	181+03.27	239.25_LT	GLO BC C1 LOT P S2606
601	1315890.41	3079915.50	181+92.51	51.75_LT	3" BC MON NW COR LOT P S2606
603	1316004.33	3079915.61	182+41.44	51.12_RT	GLO BC C2 LOT P S2606
598	1315891.76	3079648.72	184+33.92	165.33_LT	DOT AL PRM W SIDE OLD ROW
597	1316047.08	3079528.60	186+09.18	76.82_LT	DOT AL PRM ROW MON
592	1316332.09	3079227.88	190+03.28	51.05_RT	RB&CAP LS 6269 L17/L18 B2 ASLS 81-39
20082	1316506.09	3079149.12	191+54.78	172.76_RT	BLM BC POL ASLS 81-39
589	1316516.48	3078872.47	194+09.40	44.47_RT	ADL PRM L13/L15 B2 ASLS 81-39
862	1316661.31	3078496.00	197+98.73	58.78_LT	BLM BC WCMC 1 S2804
584	1316784.75	3078502.70	198+73.13	39.78_RT	RB&CAP LS 6269 L9/L11 B2 ASLS 81-39
585	1316877.04	3078400.73	200+12.49	39.50_RT	RB&CAP LS 6269 L9-L11/L9-2 B2 ASLS 81-39
577	1316973.62	3078303.73	201+51.20	39.42_RT	RB&CAP LS 6269 L9/L7 B2 ASLS 81-39
20108	1316839.69	3078140.20	201+66.76	171.35_LT	BLM BC WCMC L1/L2 S2804
576	1316892.20	3078192.97	201+68.49	96.93_LT	BLM BC L1/L2/ROW S2804
575	1316984.66	3078010.79	203+50.68	171.41_LT	BPR BC 1834
20111	1317011.18	3077992.23	203+81.23	168.74_LT	BC MON
581	1317203.68	3078105.90	204+58.81	40.31_RT	ADL PRM L7/L5 ASLS 81-39
582	1317295.87	3078210.57	204+67.69	179.53_RT	ADL PRM L7/L5 ASLS 81-39
861	1317139.89	3077927.60	205+15.51	140.08_LT	BC MON L2/L3 ROCKY PT SUBD.
574	1317219.61	3077802.81	205+91.33	113.07_LT	BLM BC L2/L3 S2804
573	1317268.26	3077887.33	206+38.42	97.87_LT	IRON PIPE
572	1317489.06	3077838.51	207+93.76	64.88_RT	RB&CAP
564	1317542.02	3077743.68	209+43.03	70.22_LT	BLM BC POL S2804 SET 1959
568	1317603.30	3077834.86	209+45.77	39.69_RT	RB&CAP
565	1317558.35	3077758.39	209+47.19	50.03_LT	BC MON
567	1317640.41	3077689.05	210+59.41	60.84_LT	IRON PIPE
20117	1317783.41	3077593.74	212+37.53	40.87_LT	BLM BC L4/L5 S2804 SET 1959
860	1318095.05	3077599.21	214+55.01	174.29_RT	RB&CAP LS 7213
20119	1317993.51	3077457.75	214+77.92	32.91_RT	BLM BC C1 L8 S2804
555	1318010.01	3077284.55	216+35.74	41.93_LT	BPR BC MON
498	1318206.68	3077206.68	217+84.71	106.49_RT	RB & AL CAP LS 7217
558	1318120.81	3077002.58	219+40.06	48.27_LT	BPR BC MON
497	1318276.17	3077021.37	219+79.58	103.15_RT	REBAR NO CAP (DISTURBED)
34	1318178.42	3078950.02	220+10.09	13.96_LT	BC CL MON (REMOVED THIS PROJECT)
35	1318185.66	3078925.09	220+35.94	16.37_LT	BC CL MON (REMOVED THIS PROJECT)
559	1318189.22	3078782.14	221+65.28	68.54_LT	IRON PIPE
549	1318291.15	3078769.40	222+21.89	16.28_RT	REBAR NO CAP
552	1318310.96	3078550.85	224+08.42	89.18_LT	BPR BC MON
548	1318464.37	3078550.44	225+07.38	25.63_RT	RB&CAP LS 3408

EXISTING MONUMENT SUMMARY					
NUMBER	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
551	1318422.71	3078486.98	225+27.24	52.81_LT	GLO BC L11/L13 S2604
36	1318545.24	3078446.07	226+39.30	2.89_RT	BC CL MON (REMOVED THIS PROJECT)
550	1318643.03	3078336.49	227+80.49	30.90_LT	GLO BC L13/L16 S2604
546	1318803.05	3078096.33	230+41.61	153.74_LT	RB&CAP LS 4742
545	1318864.46	3078192.74	230+44.32	39.46_LT	RB&CAP LS 4742
543	1318848.88	3078199.19	231+44.28	41.84_LT	RB&CAP LS 4742
542	1319061.90	3078057.18	232+79.03	44.66_LT	RB&CAP LS 4742
541	1319092.58	3078059.91	233+08.88	34.49_LT	GLO BC L17/L19 S2604
547	1319133.17	3078124.02	233+09.14	41.38_RT	IRON PIPE
903	1319114.91	3078038.35	233+39.25	40.87_RT	RB&CAP LS 3408
902	1319213.79	3078973.99	234+58.15	41.09_LT	RB&CAP LS 3408
538	1319316.49	3078919.61	235+73.11	34.21_LT	GLO BC L19/L19A S2604
539	1319312.82	3078913.69	235+73.15	41.17_LT	RB&CAP LS 6269
537	1319412.36	3078850.99	236+80.79	41.32_LT	RB&CAP LS 6269
536	1319518.41	3078870.38	237+71.13	32.04_RT	GLO BC L48/L22 S2603
535	1319484.23	3078814.28	237+71.17	34.18_LT	GLO BC L19A/L21 S2604
533	1319530.17	3078886.77	237+71.52	51.84_RT	RB&CAP LS 3697
534	1319509.76	3078988.88	238+00.99	33.64_LT	RB&CAP LS 3499
532	1319555.39	3078871.27	238+01.12	51.84_RT	RB&CAP LS 3697
531	1319668.67	3078989.91	239+35.01	51.76_RT	RB & 2" AL CAP
530	1319705.07	3078975.58	240+31.96	34.17_LT	RB&CAP LS 3499
529	1319865.58	3078589.06	242+98.58	31.14_RT	GLO BC L24/L49 S2603
526	1320012.65	3078476.18	243+98.48	39.42_LT	RB&CAP LS 6269
527	1320038.36	3078458.98	244+28.89	39.45_LT	RB&CAP LS 6269
525	1320189.35	3078449.17	245+82.48	31.69_RT	GLO BC L49/L52 S2603
524	1320154.22	3078393.16	245+82.52	34.42_LT	GLO BC L25/L27 S2604
528	1320151.72	3078389.14	245+82.54	39.16_LT	RB&CAP LS 3499
523	1320284.84	3078389.61	246+75.02	32.04_RT	IRON PIPE
519	1320253.42	3078331.03	246+79.57	34.27_LT	IRON PIPE
520	1320279.62	3078314.86	247+10.36	34.03_LT	RB&CAP
521	1320422.06	3078322.94	248+28.68	48.57_RT	RB&CAP LS 6269
522	1320413.11	3078308.63	248+26.71	31.70_RT	GLO BC L52/L53 S2603
851	1320579.18	3078375.79	249+31.62	176.91_RT	RB&CAP LS 6269
518	1320548.59	3078244.83	249+73.68	48.67_RT	RB&CAP LS 6269
850	1320616.08	3078333.27	249+74.00	176.93_RT	RB&CAP LS 6269 (DISTURBED)
852	1320624.84	3078347.42	249+85.38	177.17_RT	RB&CAP LS 6269
816	1320645.63	3078182.69	250+90.60	48.73_RT	RB&CAP LS 6269
517	1320801.82	3078112.25	250+90.72	34.39_LT	RB&CAP ROW
515	1320837.95	3078168.68	250+91.20	32.57_RT	GLO BC L53/L56 S2603
512	1320772.98	3078004.61	252+93.17	34.33_LT	GLO BC L29A/L31 S2604
513	1320808.20	3078060.58	252+93.21	31.79_RT	GLO BC L58/L57 S2603
514	1320818.07	3078074.86	252+93.98	49.14_RT	#SRB NO CAP
848	1321173.05	3078143.03	255+58.32	295.67_RT	RB&CAP LS 6269
810	1321125.49	3078860.57	258+57.85	48.12_RT	RB&CAP
509	1321265.48	3074794.47	258+21.98	49.67_RT	RB&CAP
507	1321570.16	3074583.69	261+92.11	33.25_RT	RB&CAP
506	1321660.74	3074526.52	262+99.22	33.01_RT	#SRB NO CAP
505	1321702.25	3074499.25	263+48.88	32.00_RT	GLO BC L64/L65 S2603
503	1321925.48	3074359.09	266+12.48	32.04_RT	GLO BC L65/L42 S2603
27	1321998.65	3074274.15	267+19.59	0.98_LT	BC CL MON (REMOVED THIS PROJECT)
501	1322176.85	3074260.65	268+86.56	72.93_RT	#4 REBAR NO CAP
20148	1322429.80	3074666.06	269+73.23	546.10_RT	GLO BC C2 S2603
847	1322355.37	3074050.18	271+29.16	61.36_LT	BPR BC MON
840	1322484.64	3074081.27	272+45.01	0.59_LT	BC CL MON (REMOVED THIS PROJECT)

MONUMENTS SET THIS PROJECT					
NUMBER	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
216	1318284.16	3078974.39	220+72.72	76.00_RT	DOT&PF REBAR & AL CAP
217	1318298.89	3078887.03	221+14.82	74.67_RT	DOT&PF REBAR & AL CAP
218	1318294.20	3078849.14	221+49.67	55.00_RT	DOT&PF REBAR & AL CAP
215	1318314.71	3078807.45	221+98.66	85.00_RT	DOT&PF REBAR & AL CAP
214	1318404.63	3078878.56	223+65.00	63.00_RT	DOT&PF REBAR & AL CAP
213	1318483.26	3078850.37	224+98.55	60.00_RT	DOT&PF REBAR & AL CAP
212	1318558.12	3078432.11	227+40.00	58.95_RT	DOT&PF REBAR & AL CAP
211	1318589.69	3078411.03	227+81.87	57.03_RT	DOT&PF REBAR & AL CAP

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 Mon. 26/Dec/08 09:52AM

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE NS Date 9/16/13

DATE _____ REVISIONS _____ BY _____		
<b>STATE OF ALASKA</b> DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES RIGHT OF WAY MAP ALASKA PROJECT NO. STP--0920(19) ~ 67600 KETCHIKAN ~ NORTH TONGASS HIGHWAY WARD COVE TO WHIPPLE CREEK, STAGE 2		
DRAWN	ROW	DATE 12/2007
CHECKED	DATE	SCALE 1"=40'
		SHEET R13 OF







MUD BAY

ATS 698  
TR. B

LOT M  
USS 2606

LOT I  
USS 812  
(PLAT 2005-26)

LOT O-2  
TEDI BROWN & PATRICK MOORE  
USS 2606  
(PLAT #2000-23)

CHARLOTTE AMES  
LOT O-1  
USS 2606  
(PLAT #2000-23)

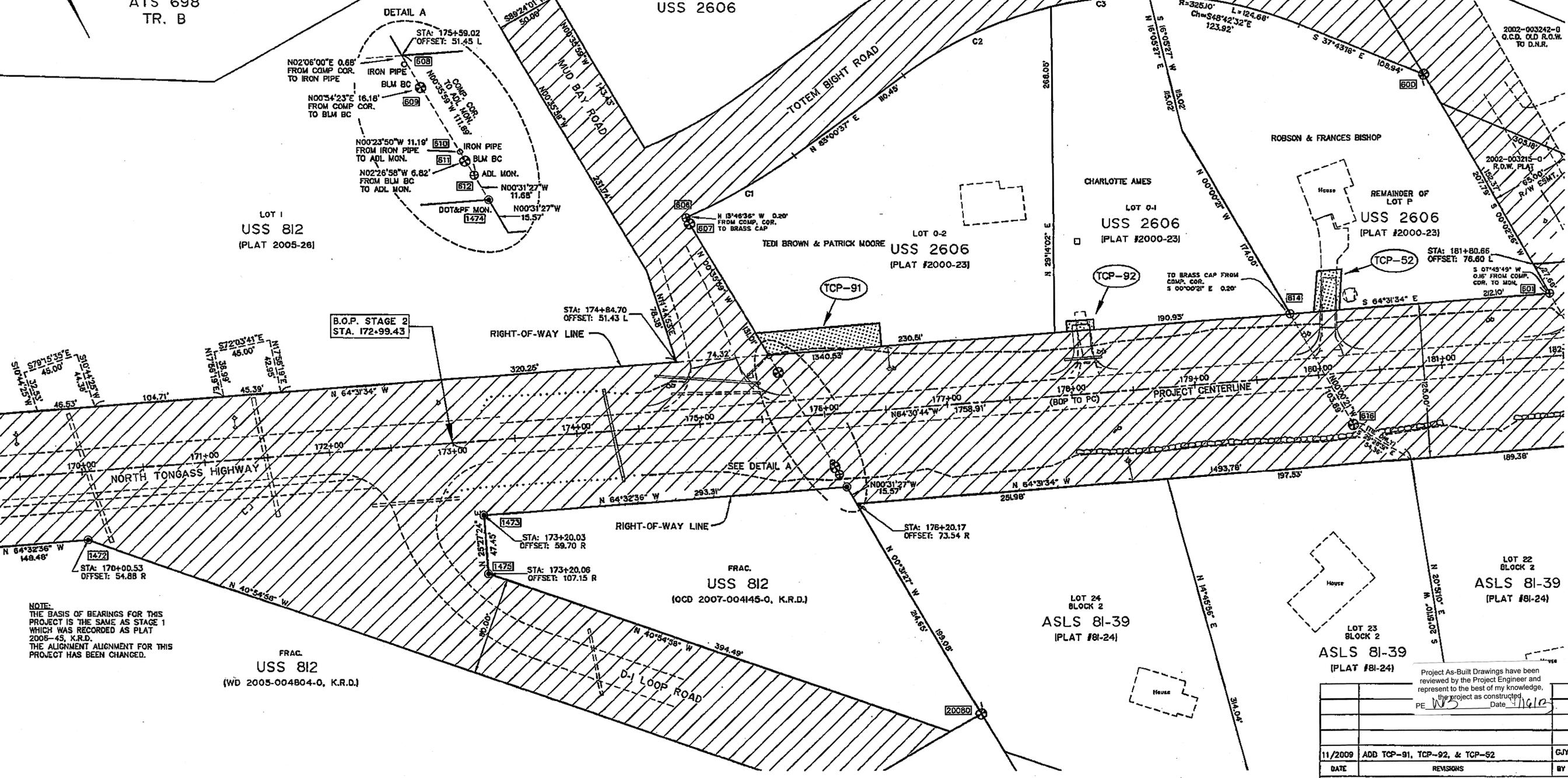
REMAINDER OF  
LOT P  
USS 2606  
(PLAT #2000-23)

FRAC.  
USS 812  
(OCD 2007-004145-0, K.R.D.)

LOT 24  
BLOCK 2  
ASLS 81-39  
(PLAT #81-24)

LOT 22  
BLOCK 2  
ASLS 81-39  
(PLAT #81-24)

LOT 23  
BLOCK 2  
ASLS 81-39  
(PLAT #81-24)



NOTE:  
THE BASIS OF BEARINGS FOR THIS PROJECT IS THE SAME AS STAGE 1 WHICH WAS RECORDED AS PLAT 2005-45, K.R.D. THE ALIGNMENT ALIGNMENT FOR THIS PROJECT HAS BEEN CHANGED.

FRAC.  
USS 812  
(WD 2005-004804-0, K.R.D.)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: WJS Date: 11/16/09

DATE	REVISIONS	BY
11/2009	ADD TCP-91, TCP-92, & TCP-52	GJY

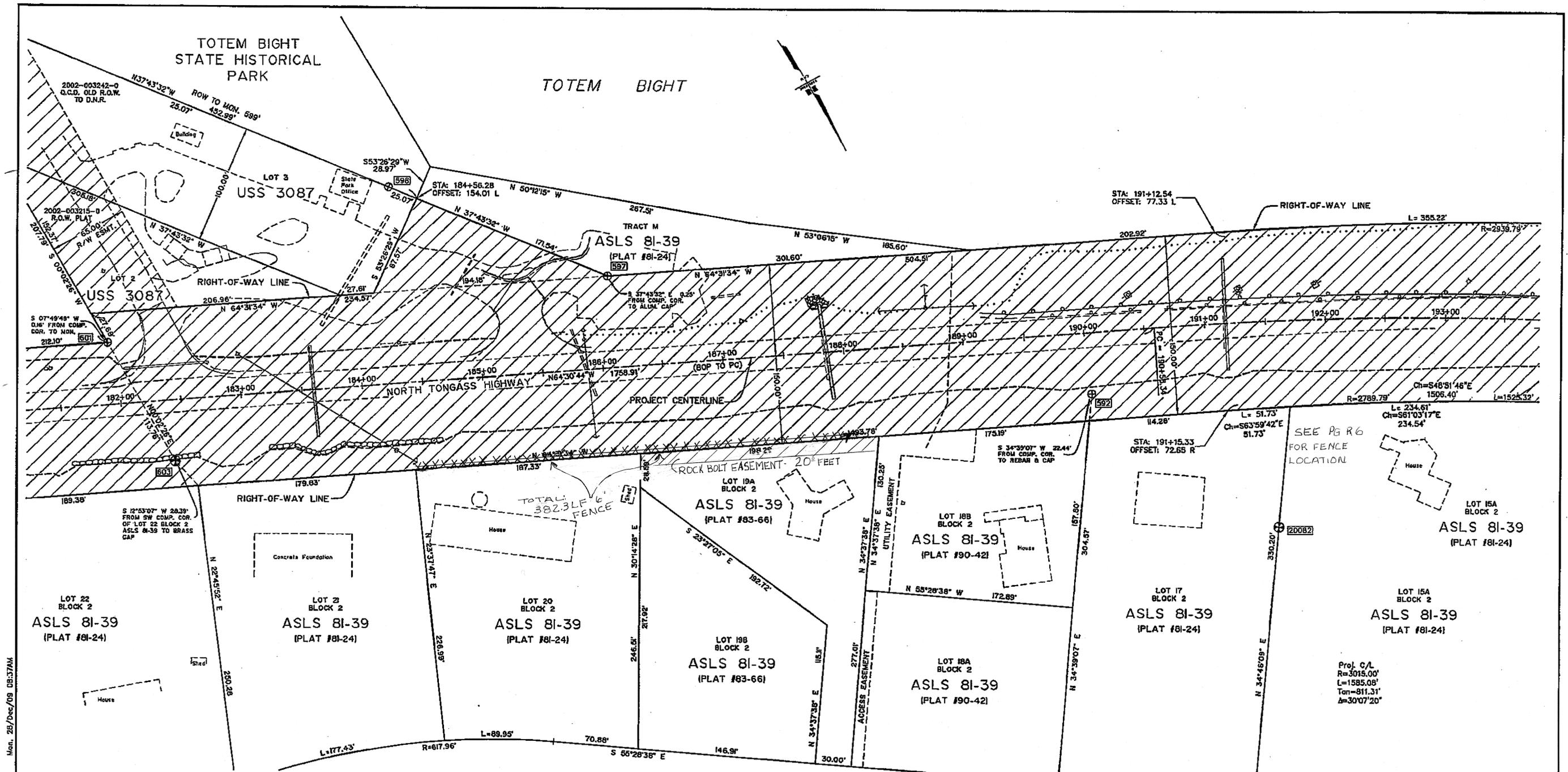
TEMPORARY CONSTRUCTION PERMIT			
TCP NO.	OWNER	AREA	PURPOSE
TCP-91	TEDI BROWN & PATRICK MOORE	1771 S.F.	CONST. ACCESS
TCP-92	CHARLOTTE AMES	187 S.F.	RECONSTRUCT DRIVEWAY
TCP-52	ROBSON & FRANCES BISHOP	696 S.F.	RECONSTRUCT DRIVEWAY

607 SEE EXISTING MONUMENT SUMMARY ON SHEET 13

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	100.69'	442.26'	132°42'	S89°31'58"W	100.47'
C2	131.89'	325.10'	231°32'	S85°23'37"E	130.70'
C3	80.01'	325.10'	14°06'09"	S66°44'48"E	79.51'

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES  
RIGHT OF WAY MAP  
ALASKA PROJECT NO. STP-0920(19) ~ 67600  
KETCHIKAN ~ NORTH TONGASS HIGHWAY  
WARD COVE TO WHIPPLE CREEK, STAGE 2  
DRAWN ROW DATE 12/2007 SCALE 1"=40'  
CHECKED DATE SHEET R4 OF

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C:\Users\157600\OneDrive\WORK\WHIPPLE\_STAGE2.dwg (R4-R1) 13.dwg Mon, 28/Dec/09 05:37AM

607 SEE EXISTING MONUMENT SUMMARY ON SHEET 13

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed. PE: <i>MS</i> Date: <i>11/6/13</i>		
DATE	REVISIONS	BY
<b>STATE OF ALASKA</b> DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES RIGHT OF WAY MAP ALASKA PROJECT NO. STP-0920(19) ~ 67600 KETCHIKAN ~ NORTH TONGASS HIGHWAY WARD COVE TO WHIPPLE CREEK, STAGE 2		
DRAWN	ROW	DATE
CHECKED	DATE	SCALE
		1"=40'
		SHEET R5 OF

TOTEM BIGHT

- NOTES:
- STATE OF ALASKA PATENT 6572 RESERVES A 50 FOOT PUBLIC ACCESS EASEMENT ALONG TONGASS NARROWS IN A.S.L.S. 81-39, TRACT L.
  - THE KETCHIKAN GATEWAY BOROUGH AGREED TO DONATE TRACT L AS RIGHT OF WAY IN RESOLUTION NO. 1710 WITH THE CONDITION THAT ACCESS TO THE BEACH BE PROVIDED. TRACT L WAS DESIGNATED AS PARCEL 60. STAGE 1 OF THIS PROJECT WAS SHORTENED AND THIS PORTION OF THE HIGHWAY WAS NOT RE-CONSTRUCTED. PARCEL 60 IS INCLUDED IN THIS PROJECT (STAGE 2).

LOT 1 OF LOTS 2 & 3  
USS 2804  
(PLAT #64-1161)

LOT 2 OF LOTS 2 & 3  
USS 2804  
(PLAT #64-1161)

LOT 1-B OF LOT 1  
USS 2804  
O/D BOOK 140  
PAGE 379

LOT 1-A OF LOT 1  
USS 2804  
O/D BOOK 140  
PAGE 379

LOT 7A BLOCK 2  
ASLS 81-39  
(PLAT #81-24)

SUBLOT 2 LOT 9A BLOCK 2  
ASLS 81-39  
(PLAT #89-21)

SUBLOT 1 LOT 9A BLOCK 2  
ASLS 81-39  
(PLAT #89-21)

LOT 11A BLOCK 2  
ASLS 81-39  
(PLAT #81-24)

LOT 13A BLOCK 2  
ASLS 81-39  
(PLAT #81-24)

LOT 15A BLOCK 2  
ASLS 81-39  
(PLAT #81-24)

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING
C4	24.43'	2789.79'	0°30'06"	S37°16'11"E

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE IV/3 Date 11/10/13

PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
60	KETCHIKAN GATEWAY BOROUGH	10,265 S.F.	0 S.F.	SEE NOTE 2 ABOVE.

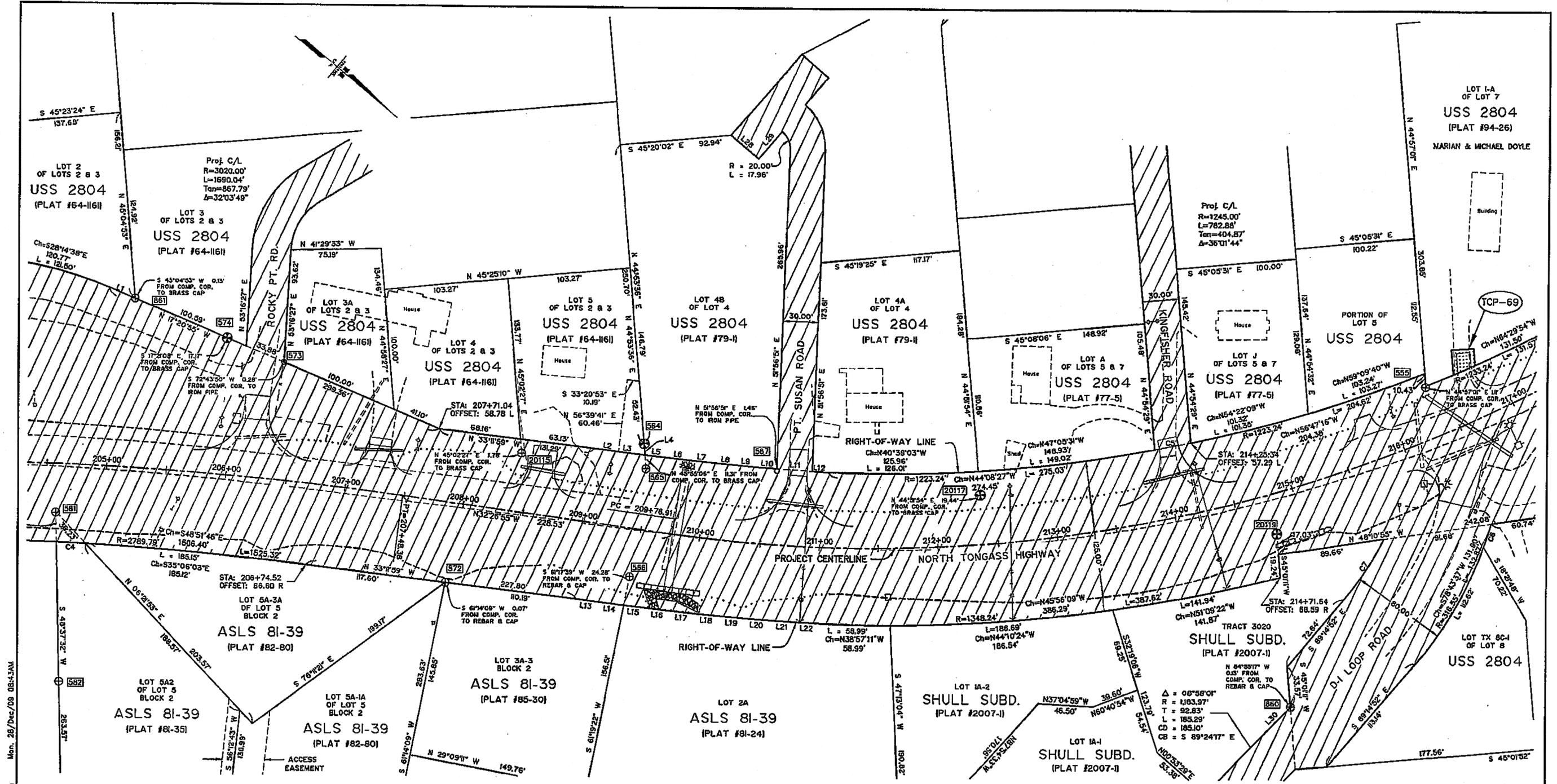
DATE	REVISIONS	BY

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES  
RIGHT OF WAY MAP  
ALASKA PROJECT NO. STP-0920(19) ~ 67600  
KETCHIKAN ~ NORTH TONGASS HIGHWAY  
WARD COVE TO WHIPPLE CREEK, STAGE 2

DRAWN	ROW	DATE	12/2007	SCALE	1"=40'
CHECKED		DATE		SHEET	R6 OF

SEE EXISTING MONUMENT SUMMARY ON SHEET 13

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TEMPORARY CONSTRUCTION PERMIT			
TCP NO.	OWNER	AREA	PURPOSE
TCP-69	MARIAN & MICHAEL DOYLE	336 S.F.	RECONSTRUCT DRIVEWAY

LINE	BEARING	LENGTH
L1	S17°20'55"E	23.78'
L2	S33°12'53"E	19.97'
L3	S33°18'53"E	22.61'
L4	S45°55'08"W	9.31'
L5	S33°30'01"E	17.07'
L6	S33°45'17"E	19.73'
L7	S34°06'53"E	19.85'
L8	S34°33'53"E	19.57'
L9	S35°06'17"E	19.49'
L10	S35°39'19"E	14.85'
L11	N35°29'21"W	30.01'

LINE	BEARING	LENGTH
L12	N37°24'10"W	13.13'
L13	S33°12'53"E	20.07'
L14	S33°18'17"E	20.16'
L15	S33°28'08"E	20.29'
L16	S33°45'17"E	20.41'
L17	S34°06'53"E	20.53'
L18	S34°33'53"E	20.65'
L19	S35°06'17"E	20.77'
L20	S35°44'05"E	20.88'
L21	S36°27'18"E	21.00'
L22	S37°15'53"E	21.13'

CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C4	24.43'	2789.78'	0°30'06"	S37°15'11"E	24.43'
C5	30.18'	1223.24'	1°24'48"	N51°17'20"W	30.18'
C7	60.54'	235.55'	3°39'53"	S83°25'11"W	60.58'
C8	20.25'	316.55'	3°39'57"	S86°32'05"W	20.25'

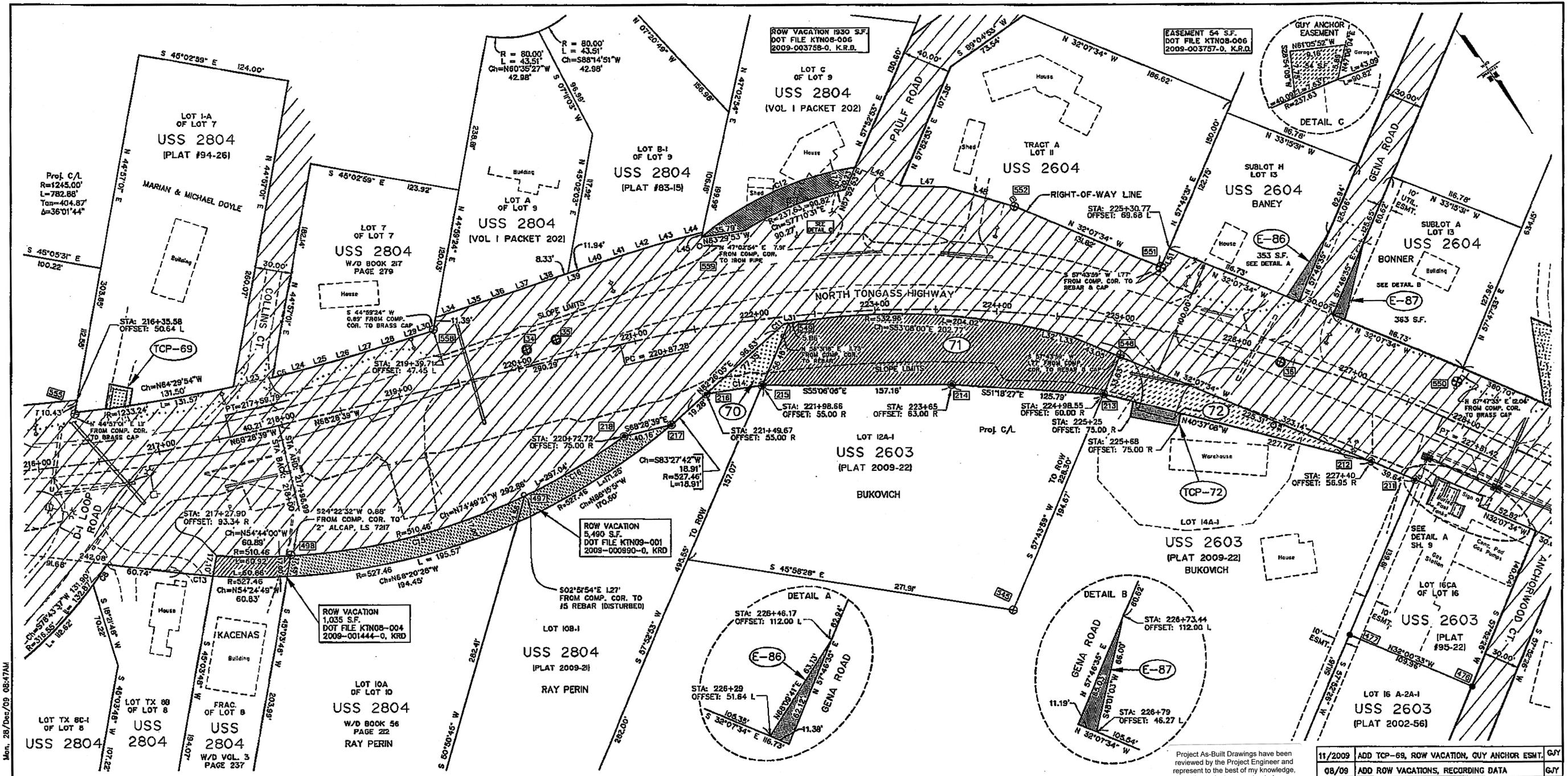
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: [Date]

607 SEE EXISTING MONUMENT SUMMARY ON SHEET 13

11/2009	ADD LOT 69		GJY
07/2008	ADD PLAT 2007-1		GJY
DATE		REVISIONS	BY

**STATE OF ALASKA**  
 DEPARTMENT OF TRANSPORTATION  
 &  
 PUBLIC FACILITIES  
 RIGHT OF WAY MAP  
 ALASKA PROJECT NO. STP-0920(19) ~ 67600  
 KETCHIKAN ~ NORTH TONGASS HIGHWAY  
 WARD COVE TO WHIPPLE CREEK, STAGE 2

DRAWN	ROW	DATE	12/2007	SCALE	1"=40'
CHECKED		DATE		SHEET	R7 OF



PARCEL	OWNER	AREA	REMAIN	RECORDING DATA
70	RAY PERIN	1,209 S.F.	47,687 S.F.	2009-000989-0 KRD & PLAT 2009-21
71	MARJORIE BUCKOVICH	14,878 S.F.	47,060 S.F.	2009-000548-0 KRD & PLAT 2009-22
72	MARJORIE BUCKOVICH	3,788 S.F.	206,005 S.F. (4.73 AC.)	2009-000549-0 KRD & PLAT 2009-22

EASEMENT	OWNER	AREA	PURPOSE	RECORDING DATA
E-86	KENNETH BANNEY	353 S.F.	SLOPES, SIDE STREET	2008-003328-0 KRD
E-87	TERRY BONNER	363 S.F.	SLOPES, SIDE STREET	2008-003329-0 KRD

TCP NO.	OWNER	AREA	PURPOSE
TCP-72	MARJORIE BUCKOVICH	470 S.F.	RECONSTRUCT DRIVEWAY
TCP-69	MARIAN & MICHAEL DOYLE	SEE SH. 7	RECONSTRUCT DRIVEWAY

CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C8	20.25'	316.55'	3°39'57"	S68°32'05"W	20.25'
C11	9.47'	154.63'	3°30'38"	N84°11'24"E	9.47'
C12	141.28'	264.63'	31°47'28"	S79°34'09"E	139.48'
C13	26.94'	527.46'	2°55'34"	N49°38'42"W	26.93'
C14	46.46'	1010.00'	2°38'09"	S63°48'10"E	46.46'
C15	198.74'	810.46'	22°25'11"	N69°21'45"W	198.47'
C16	97.29'	510.46'	10°55'13"	N66°01'57"W	97.14'

LINE	BEARING	LENGTH
L23	N68°18'47"W	32.65'
L24	N70°02'05"W	19.40'
L25	N70°50'41"W	19.47'
L26	N71°33'53"W	19.53'
L27	N72°11'41"W	19.59'
L28	N72°44'05"W	19.65'
L29	N73°11'05"W	19.72'
L30	N73°27'56"W	9.85'
L31	N64°35'59"W	9.65'
L32	N41°11'59"W	18.66'
L33	N39°53'57"W	7.78'
L34	S73°47'15"E	24.26'
L35	S73°59'41"E	19.88'
L36	S74°03'05"E	19.97'

LINE	BEARING	LENGTH
L37	S74°05'59"E	22.67'
L38	S74°03'59"E	20.07'
L39	S73°51'59"E	20.27'
L40	S73°27'59"E	20.44'
L41	S72°31'59"E	20.61'
L42	S72°03'59"E	20.79'
L43	S71°03'59"E	20.96'
L44	S69°50'26"E	21.97'
L45	S47°02'54"W	3.95'
L46	N32°38'28"W	40.00'
L47	N53°06'31"W	38.35'
L48	N38°37'10"W	57.81'
L51	N57°45'31"E	17.00'
L56	S50°50'45"W	22.39'

607 SEE EXISTING MONUMENT SUMMARY ON SHEET 13

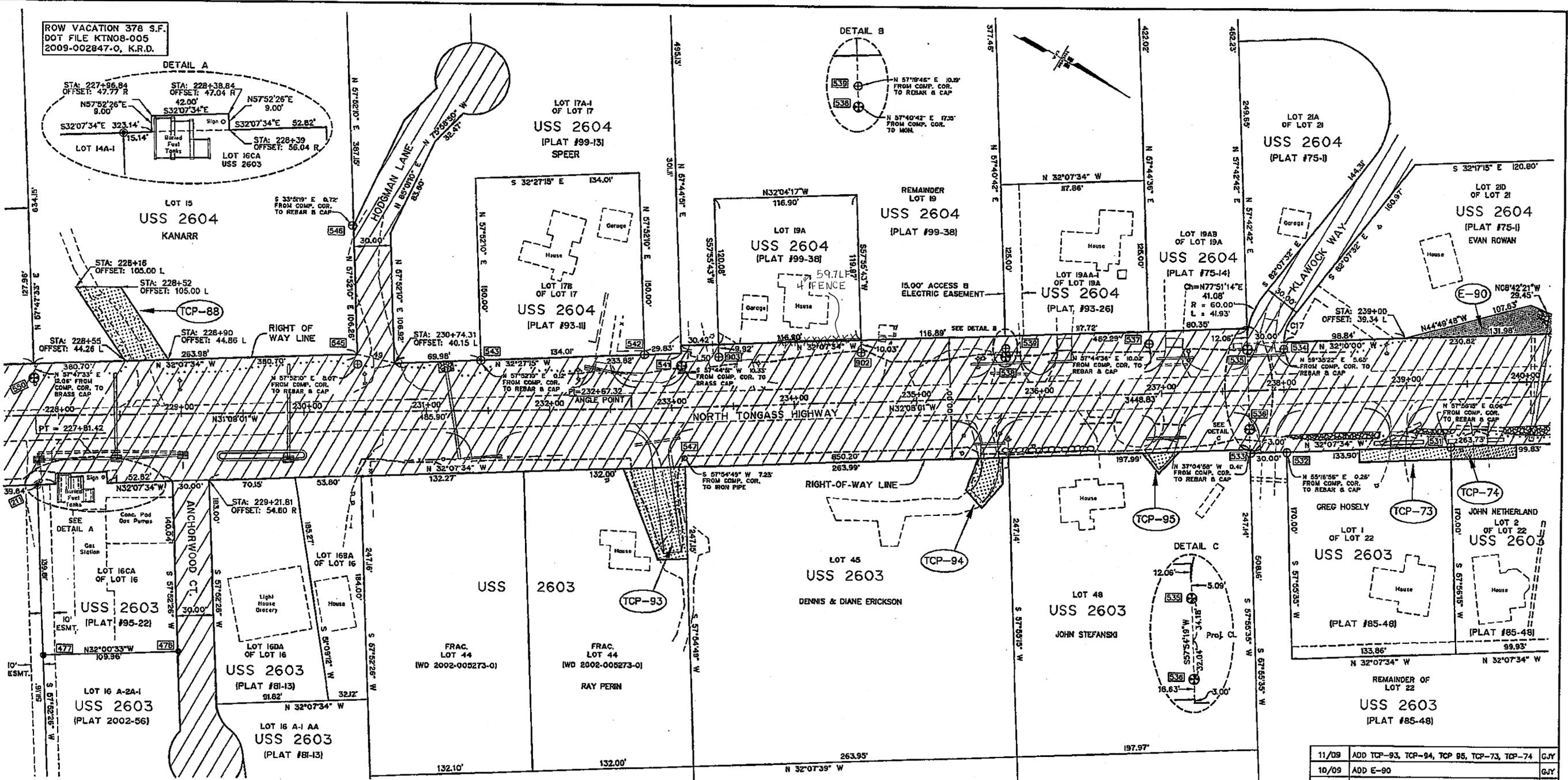
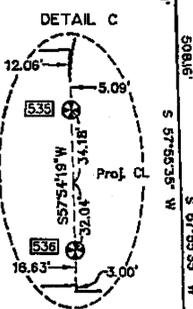
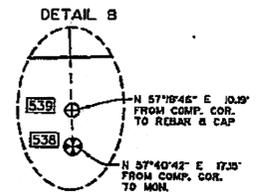
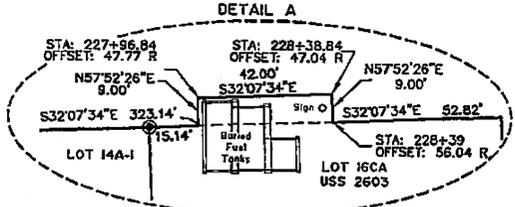
DATE	REVISIONS	BY
11/2009	ADD TCP-69, ROW VACATION, GUY ANCHOR ESMT.	GJY
08/09	ADD ROW VACATIONS, RECORDING DATA	GJY
12/08	MODIFY TCP-72	GJY
6/08	MODIFY PARCEL 71	GJY
5/08	ADD TCP-72	GJY
4/08	ADD E-86, E-87	GJY
4/08	MODIFY ALIGNMENT, PARCELS 70, 71, & 72	GJY

**STATE OF ALASKA**  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES  
RIGHT OF WAY MAP  
ALASKA PROJECT NO. STW-0920(19) ~ 67600  
KETCHIKAN ~ NORTH TONGASS HIGHWAY  
WARD COVE TO WHIPPLE CREEK, STAGE 2

DRAWN ROW DATE 12/2007 SCALE 1"=40'  
CHECKED DATE SHEET RB OF

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ROW VACATION 378 S.F.  
DOT FILE KTN08-005  
2009-002847-0, K.R.D.



EASEMENT	OWNER	AREA	PURPOSE	RECORDING DATA
E-90	EVAN ROWAN	1718 S.F.	HIGHWAY	

LINE	BEARING	LENGTH
L49	N17°22'16"W	31.02'
L50	S57°44'51"W	6.56'

CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C17	20.97'	30.00'	40°02'28"	N77°51'14"E	20.54'

TCP NO.	OWNER	AREA	PURPOSE
TCP-88	JOHN & KAREN KANARR	2157 S.F.	RECONSTRUCT DRIVEWAY
TCP-93	RAY PERIN	2829 S.F.	RECONSTRUCT DRIVEWAY
TCP-94	DENNIS & DIANE ERICKSON	839 S.F.	RECONSTRUCT DRIVEWAY
TCP-95	JOHN STEFANSKI	280 S.F.	RECONSTRUCT DRIVEWAY
TCP-73	GREG & SHELLY HOSELY	773 S.F.	RECONST. DRIVEWAY CULVERT
TCP-74	JOHN & DIANA NETHERLAND	567 S.F.	RECONST. DRIVEWAY CULVERT

DATE	REVISIONS	BY
11/09	ADD TCP-93, TCP-94, TCP-95, TCP-73, TCP-74	GJY
10/09	ADD E-90	GJY
12/08	ADD ROW VACATION, LOT 16CA, USS 2603	GJY
7/08	DELETE E-89	GJY
5/08	DELETE E-88, ADD E-89	GJY
5/08	MODIFY E-88, ADD TCP-88, DELETE E-89	GJY
4/08	ADD E-88, E-89	GJY
4/08	MODIFY ALIGNMENT, ADD PLAT 99-13	GJY

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES  
RIGHT OF WAY MAP  
ALASKA PROJECT NO. STP-0920(19) ~ 67600  
KETCHIKAN ~ NORTH TONGASS HIGHWAY  
WARD COVE TO WHIPPLE CREEK, STAGE 2

DRAWN	ROW	DATE	SCALE
		12/2007	1"=40'
CHECKED	DATE	SHEET	OF
		R9	OF

SEE EXISTING MONUMENT SUMMARY ON SHEET 13

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *[Signature]* Date: 1/16/13

Mon: 28/Dec/08 08:48AM  
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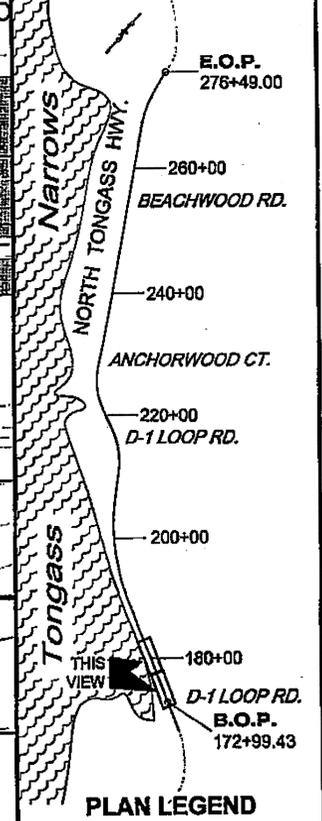
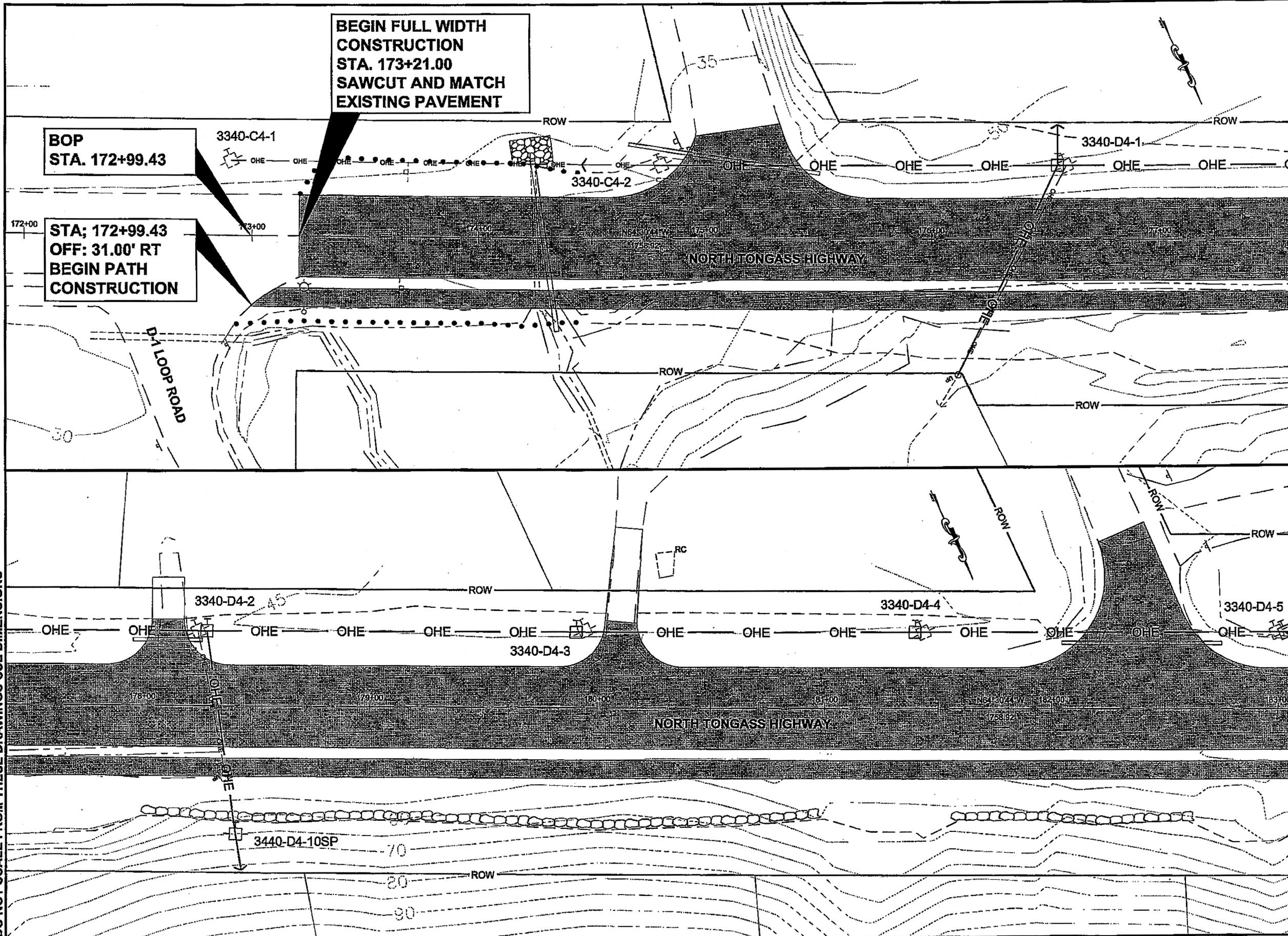
TAB: U1 GRANHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: F. THORSTEINSON

DESIGNED BY: M. CARSON

DRAWN BY: M. CARSON, R. GRANHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY. WARD TO WHIPPLE - STAGE 2 CREEK**

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

PE: *[Signature]* Date: 1/16/13

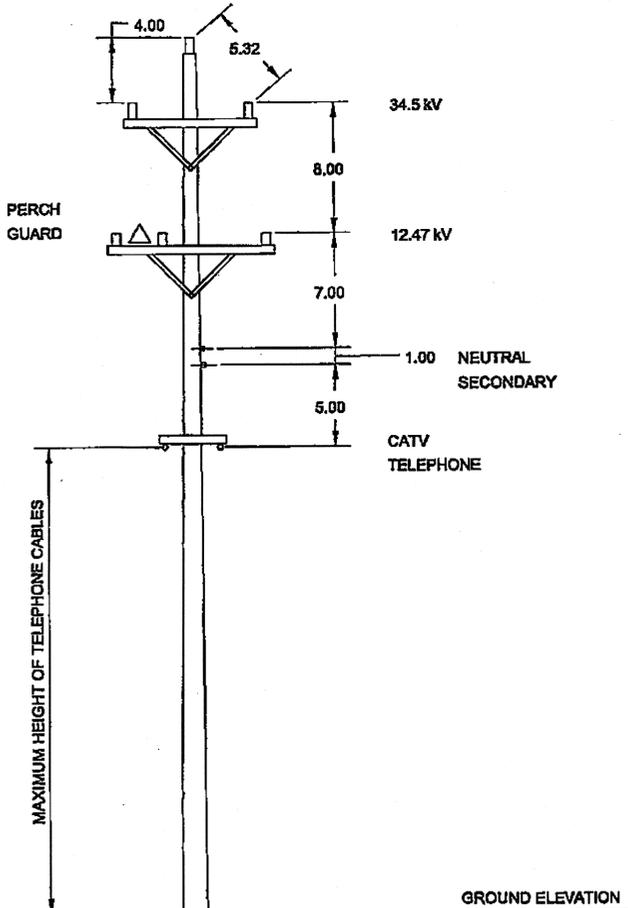
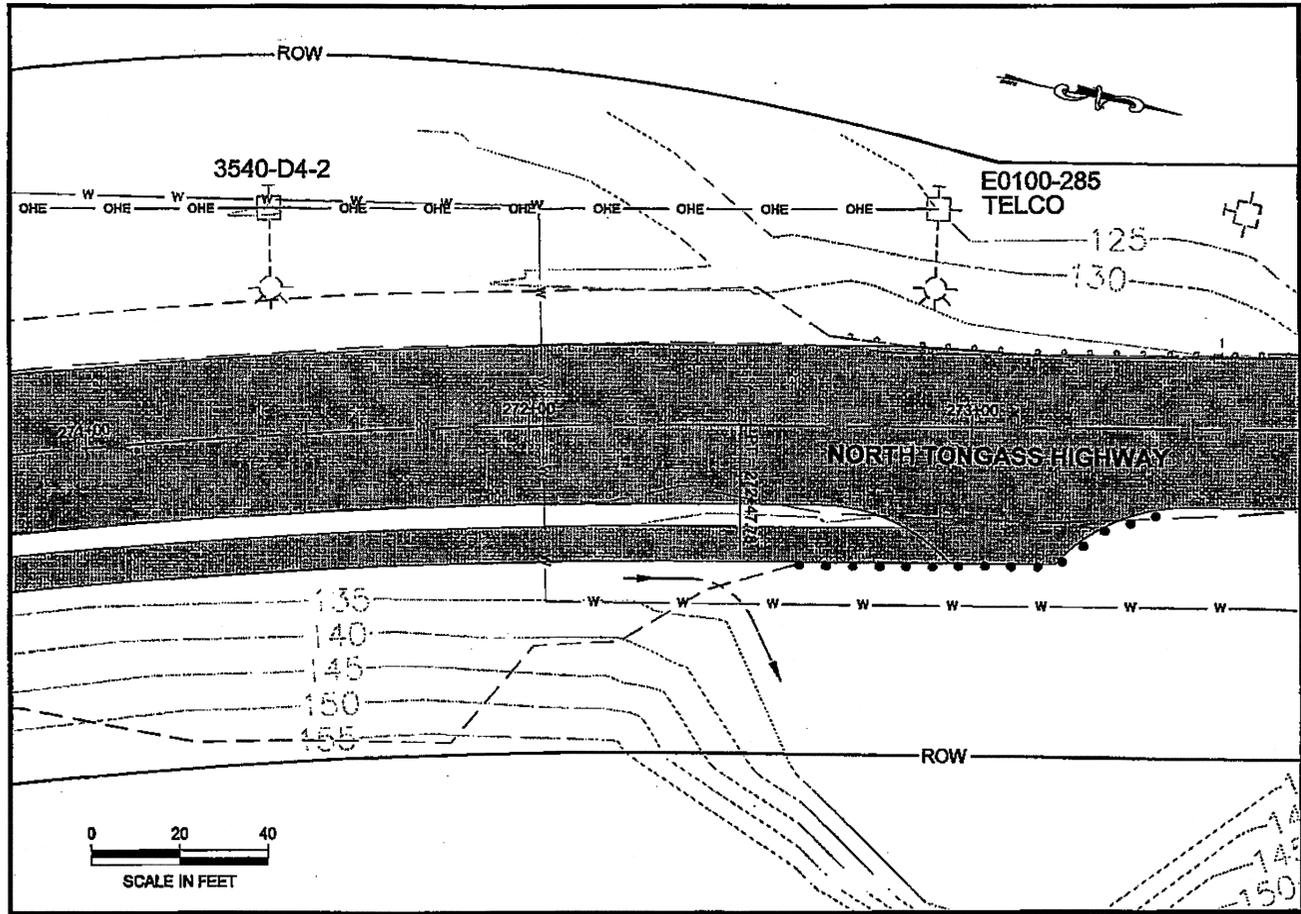
**UTILITY PLANS**

PROJECT DESIGNATION

**NH-ARA-0920(25) - 67443**

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
U1	102

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

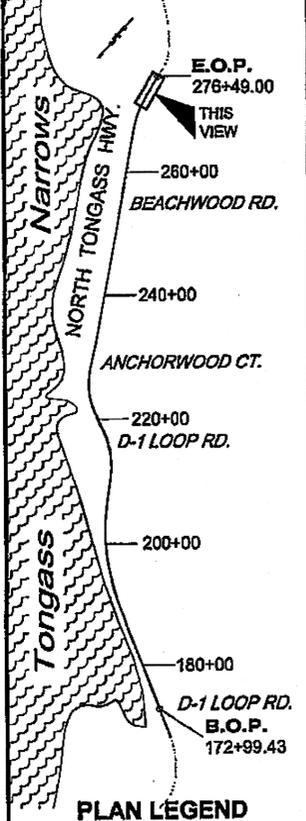


**TYPICAL TANGENT STRUCTURE**

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TAB: U10 GRANTHAM, RICK L (DOT)  
 ADDENDUM NUMBER  
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: F. THORSTEINSON



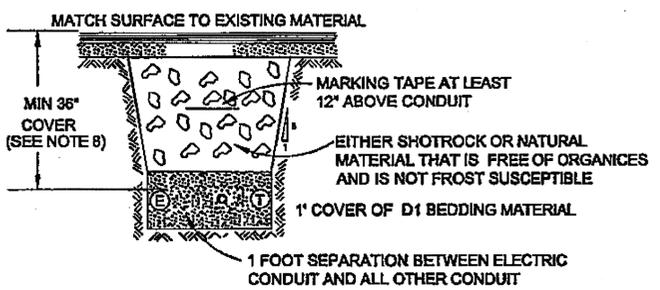
DESIGNED BY: M. CARSON  
 DRAWN BY: M. CARSON, R. GRANTHAM

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 SOUTHEAST REGION  
**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

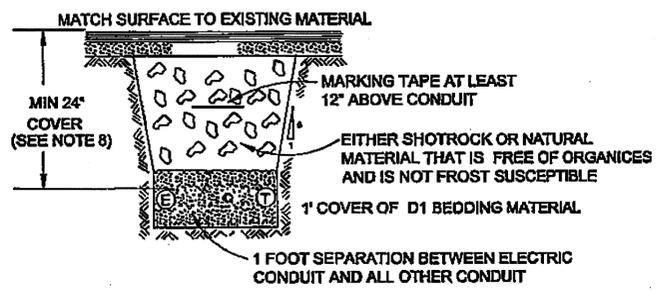
**UTILITY PLANS**

PROJECT DESIGNATION	
NH-ARA-0920(25) - 67443	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
U10	102

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



**UNDERGROUND PRIMARY  
 TRENCH DETAIL**  
 TRANSFORMER TO METERBASE  
 NTS

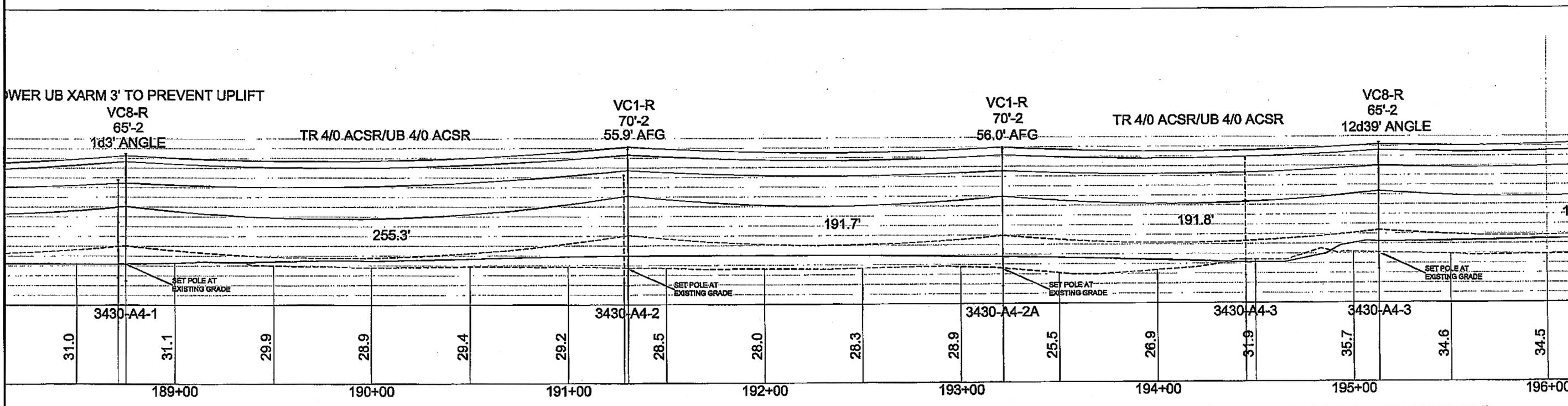
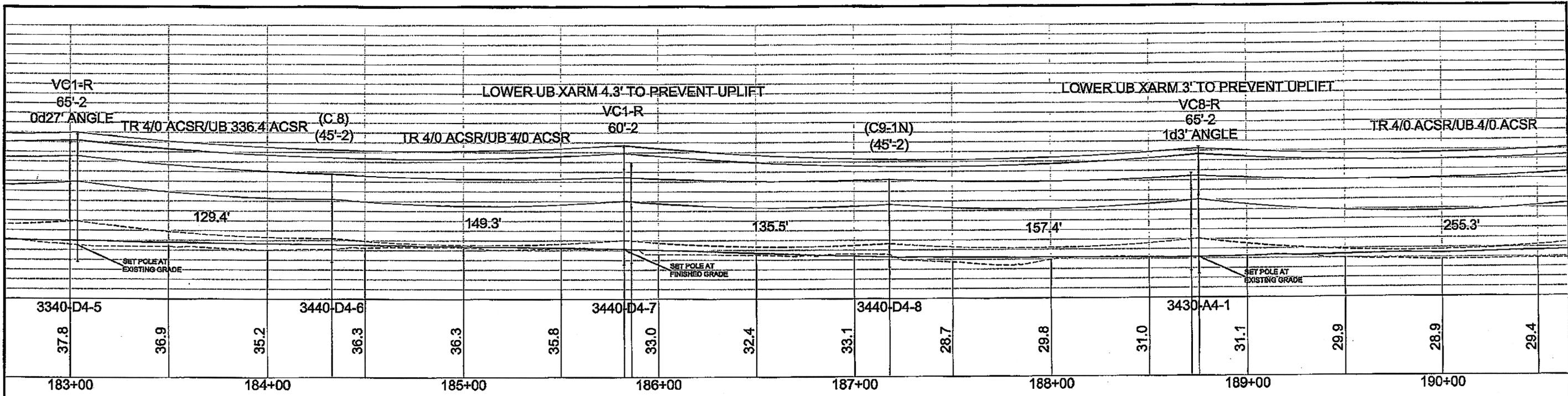


**UNDERGROUND SECONDARY  
 TRENCH DETAIL**  
 TRANSFORMER TO METERBASE  
 NTS

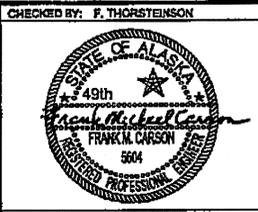
- NOTES:**
1. ELECTRIC CONDUIT: PER KPU ELECTRIC'S SPECIFICATIONS (OTHER CONDUIT: PER OTHER RESPECTIVE UTILITY'S SPECIFICATIONS).
  2. NO MORE THAN 90-DEGREES OF ANGLE ALLOWED IN A SINGLE BEND.
  3. ONLY FACTORY MANUFACTURED ELBOWS ALLOWED.
  4. NO MORE THAN 270-DEGREES OF TOTAL ANGLE ALLOWED IN CONDUIT RUN.
  5. WHERE ADEQUATE BURIAL DEPTH CAN NOT BE ACHIEVED, CONCRETE MAY BE USED, WHERE EVERY 2 INCHES OF CONCRETE EQUALS 3 INCHES OF BURIAL.
  6. KPU ELECTRIC POWER LINEMAN MUST INSPECT TRENCH AND AND CONDUIT PRIOR TO BURIAL.
  7. ELECTRICAL SERVICE WILL NOT BE HOOKED UP WITHOUT KPU ELECTRIC INSPECTION AND APPROVAL.
  8. THE ADOT REQUIRES 48" OF COVER FOR CONDUITS BURIED IN THE ROADWAY PRISM(DITCH TO DITCH) AND 36" OF COVER FOR CONDUITS BURIED OUTSIDE THE ROADWAY PRISM IN ADOT RIGHTS OF WAY.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *VNO* Date *9/10/12*





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



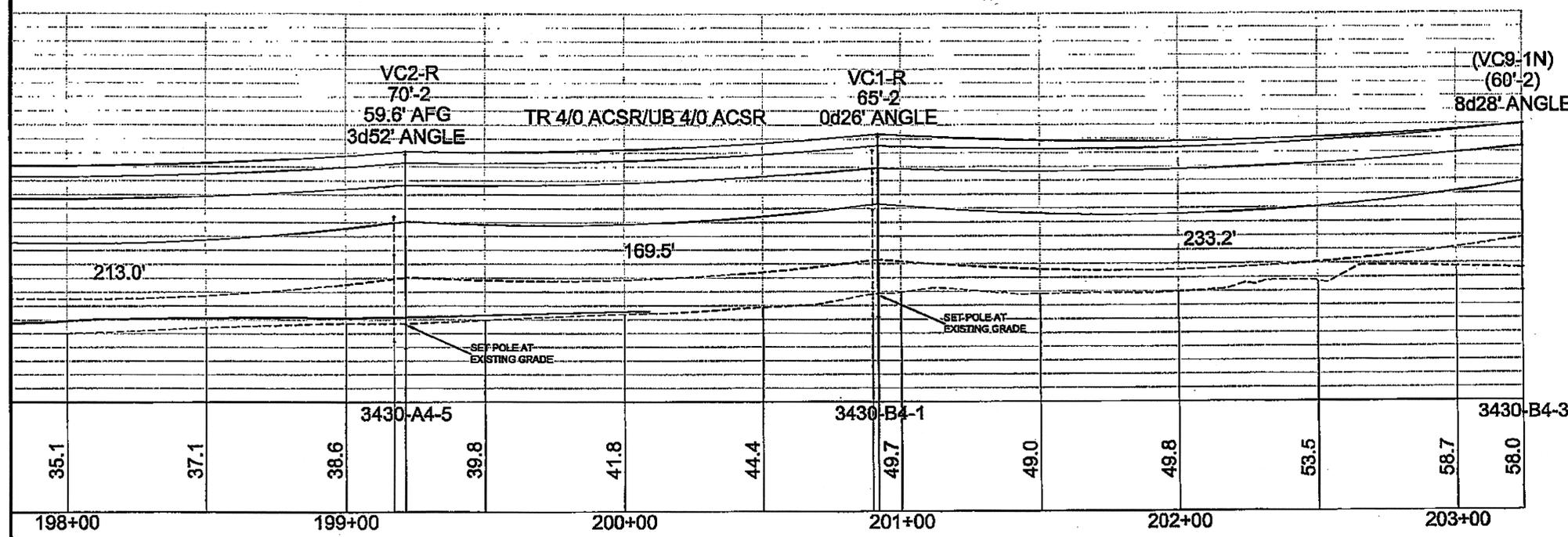
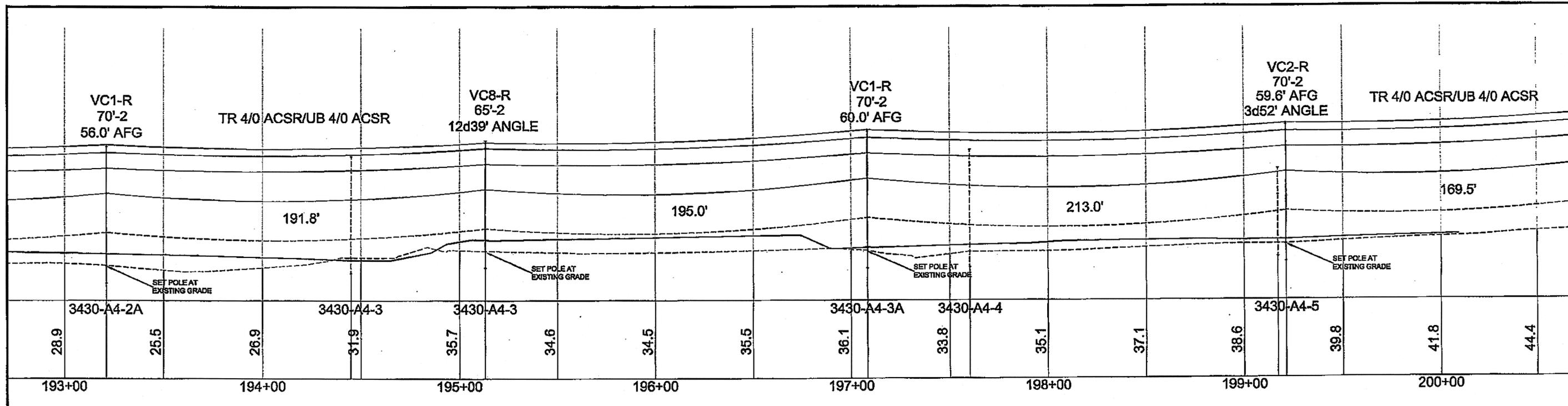
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**ELECTRICAL  
LINE PROFILE**

DESIGNED BY: M. CARSON	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: M. CARSON	NH-ARA-0920(25) - 67443	2010	U12	102
PATH: Q:\KTM67443\PLANS\SET167443_U11-U13_ELEC LINE PROFILE.DWG	REVISIONS			
TAB: U12	NO.	DATE	DESCRIPTION	
Wednesday, January 20, 2010 8:17:15 AM				

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: [Signature] Date: 1/16/10



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: F. THORSTEINSON

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**ELECTRICAL  
LINE PROFILE**

DESIGNED BY: M. CARSON  
DRAWN BY: M. CARSON

PATH: G:\ACTN\67443\PLANSET\67443\_U11-U13\_ELEC LINE PROFILE.DWG  
TAB: U13 Wednesday, January 20, 2010 8:17:20 AM GRANTHAM, RICK L (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-ARA-0920(25) - 67443	2010	U13	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE *MB* Date 1/11/13

STAKING SHEET

PROJECT: 67443 DOT NORTH TONGASS HIGHWAY STAGE 2 ELECTRICAL DESIGN

STAKED:

DATE: 11/25/2009

RELEASED:

REVISION:

NORTHSTAR POWER ENGINEERING

VOLTAGE: 34.5 KV TRANS/12.5 KV UB

TRANSMISSION CONDUCTOR: 4/0 ACSR PENGUIN

UB CONDUCTOR: 336.4 KCM MERLIN/4/0 ACSR PENGUIN

NEUTRAL: 4/0 ACSR PENGUIN

LOCATION: D-1 LOOP-TOTEM BIGHT REALIGNMENT

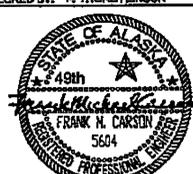
RULING SPAN: 200 FT

MAP REFERENCE:

POLE NUMBER	STATION	OFFSET	LINE ANGLE	BACK SPAN	POLE H & C	POLE ELEVATION	TRANS UNIT	DISTRIBUTION UNIT	TELCO UNIT	MISC UNIT	GRND	GUYING			TRANSF		SECONDARY			REMARKS				
												No.	GUY	LEAD	No.	ANG.	UNIT	SIZE	SIZE		TYPE	LENGTH	UNIT	
(3340-C4-1)	172+90.63	33.18 LT		165.0	(60-2)	EG	(VC 1)	(C9-1N)	(T-1A)	(ST. LIGHT) (UM 5)	(M2-12)						(#6 AL	TRI)			D-1 LOOP ROAD			
(3340-C4-2)	174+80.50	32.34 LT	Od. 21'49" LT.	189.8	(60-3)	EG	(VC 1)/VC 8	(C9-1N)/C8-2	(T-1A)/T-1		(M2-12)	1	E1-2C	35	1	F2 E3-10						ROAD TO LIGHTHOUSE MARINE RAISE TELEPHONE CABLES TO 21.7'		
(3340-D4-1)	176+69.25	32.54 LT			(60-2)*	EG	(VC-1)*	(C9-1N)*	(T-1A)*		(M2-11)*	1	(E1-2A)*	23	1	(F5)* (E3-10)*						REMOVE AND INSTALL TRANSFORMER AND SERVICE		
NEW 3340-D4-1	176+55.45	32.67 LT		175.0	65-2	38.0	VC1-R	C9-1N	T-1	(3/M5-9) (M5-14)	M2-11	1	E1-2A	18	1	F5 E3-10	(G312	3/25 KVA)			K15	SET POLE AT FINISHED GRADE		
(3430-A3-8)SP					(30-2)	EG						1	(E1-2)	1	1	(F3.16) (E3-10)		{4/0 AL	QPLEX)	110		(K15) (MOP)	200 A 3PH SERVICE	
(3340-D4-2)	178+24.54	33.02 LT			(65-2)*	EG	(VC-1)*	(C9-1N)*	(T-1A)*		(M2-11)*											REMOVE AND INSTALL TRANSFORMER AND SERVICE		
NEW 3340-D4-2	178+28.34	33.00 LT		172.9	65-2	40.0	VC1-R	C9-1N	T-1	(M5-9)	M2-11						(G39	10 KVA)				2/K15 (MOH)	SET POLE AT FINISHED GRADE	
NEW 3440-D4-10 SP	178+41.52	56.37 RT			35-3 (40-2)*	50.0						1	E1-2	16	1	F3.16 E3-10		{1/0 AL	TRI)	130		K15 (MOP)	RELOCATE 200 A SERVICE EQUIPMENT INTERCEPT UNDERGROUND CABLE	
(3340-D4-3)	179+94.62	33.99 LT			(65-2)*	EG	(VC-1)*	(C9-1N)*	(T-1A)*		(M2-11)*												SET POLE AT FINISHED GRADE	
NEW 3340-D4-3	179+90.72	33.31 LT		182.4	65-2	41.2	VC1-R	C9-1N	T-1		M2-11												SET POLE AT FINISHED GRADE	
(3340-D4-4)	181+43.69	33.45 LT			(65-2)*	EG	(VC-1)*	(C9-1N)*	(T-1A)*		(M2-12)*												SET POLE AT FINISHED GRADE	
NEW 3340-D4-4	181+39.89	33.59 LT		149.2	65-2	40.8	VC1-R	C9-1N	T-1		M2-12												SET POLE AT FINISHED GRADE	
(3340-D4-5)	182+90.54	33.89 LT			(60-2)*	EG	(VC-1)*	(C9-1N)*	(T-1A)*		(M2-12)*	1	(E2-2A)*		1	(E2-2TEL)*							SET POLE AT EXISTING GRADE	
NEW 3340-D4-5	183+03.34	33.89 LT	Od. 27'13" RT.	163.4	65-2	EG	VC1-R	C9-1N	T-1	(3/M5-9) (C 7)	M2-12	1	E2-2A	165	1	E2-2TEL	155						REPLACE OVERHEAD GUYS FOR 3 PH TAP	
NEW EO6938 GS	184+24.19	55.59 RT			25-3 (35-2)*	51.0						1	E1-2	20	1	F2 E3-10							SET POLE AT FINISHED GRADE USE ROCK ANCHOR IF NECESSARY	
(3440-D4-6)	184+32.77	33.40 LT		129.4	(45-2)	EG		(C-8)	(T-1A)		(M2-12)	1	(E1-2A)	25	2	(F2) (E3-10)							END 336.4 UNDERBUILD	
(3440-D4-7)	185+85.89	32.46 LT			(60-2)*	EG	(VC-1)*	(C9-1N)*	(T-1A)*		(M2-12)*	1	(E1-2A)*		1	(F5)* (E3-10)*							(3/K15)* LOWER UB XARM 4.3'/TEL XARM 3.3' TO PREVENT UPLIFT	
NEW 3440-D4-7	185+82.09	32.46 LT		149.3	60-2	35.7	VC1-R	C9-1N	T-1		M2-12	1	E1-2A	90	1	F5 E3-10		{1/0 AL	TRI)	215		3/K15 (MOH)	SET POLE AT FINISHED GRADE PARK OFFICE	
(T-259)SP		RT			(30-2)	EG						1	(E1-2)	1	1	(F3.16) (E3-10)		{1/0 AL	TRI)	130		(K15) (MOP)	EXISTING SERVICE ACROSS HWY	
(3440-D4-8)	187+17.56	30.89 LT		135.5	(45-2)	EG		(C9-1N)	(T-1A)	(M5-9)	(M2-11)						(G39	15)	4/0 AL	TRI	140		(J15)	PARK TRANSFORMER
(3430-A4-1)	188+71.15	30.45 LT			(60-2)*	EG	(VC-8)*	(C9-1N)*	(T-1A)*		(M2-11)*	1	(E1-2)*		1	(F3.16)* (E3-10)*							(K15)*	SET POLE AT FINISHED GRADE
NEW 3430-A4-1	188+74.95	30.45 LT	1d. 02'46" RT.	157.4	65-2	EG	VC8-R	C8-11	T-1	(M5-9)	M2-11	3	E1-2C	20/45	3	F2	(G39	25)					K15	SET POLE AT FINISHED GRADE LOWER UB XARM 3'/TEL XARM 2' TO PREVENT UPLIFT

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

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *[Signature]* Date: 1/16/10

CHECKED BY: F. THORSTENSON 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
<b>KETCHIKAN - N. TONGASS HWY.                  WARD COVE TO WHIPPLE CREEK                  STAGE 2                  TOTEM BIGHT TO WHIPPLE CREEK                  ELECTRICAL                  STAKING SHEET</b>			
DESIGNED BY: M. CARSON DRAWN BY: M. CARSON		PATH: Q:\VTM\67443\PLANSET\67443_U14-U18_STAKING SHEETS.DWG TAB: U14 Wednesday, January 20, 2010 8:13:11 AM GRANTHAM, RICK L (DOT)	
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION NH-ARA-0920(25) - 67443	
		YEAR 2010	SHEET NO. U14
		TOTAL SHEETS 102	

STAKING SHEET

PROJECT: 67443 DOT NORTH TONGASS HIGHWAY STAGE 2 ELECTRICAL DESIGN

NORTHSTAR POWER ENGINEERING

VOLTAGE: 34.5 kV TRANS/12.5 kV UB

LOCATION: D-1 LOOP- TOTEM BIGHT REALIGNMENT

STAKED:

DATE: 11/25/2009

TRANSMISSION CONDUCTOR: 4/0 ACSR PENGUIN

RULING SPAN: 200 FT

RELEASED:

UB CONDUCTOR: 336.4 KCM MERLIN4/0 ACSR PENGUIN

MAP REFERENCE:

REVISION:

NEUTRAL: 4/0 ACSR PENGUIN

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
(EO6871)SP		RT			(35-2)	EG						1	E1-2TEL					(1/0 AL	TRI)	165	(K15)	EXISTING SERVICE ACROSS HWY	
(XXXX)TEL	190+38.89	29.20	LT		(35-2)*	EG			(T-1A)*			1	(E1-2)								(MOP)	TELEPHONE LIFT POLE	
(3430-A4-2)	191+28.61	28.80	LT		(55-2)*	EG	(VC9-1N)*	(C9-1N)*	(T-1A)*		(M2-11)*	1	(E1-2A)*								(K15)*	REMOVE AND INSTALL SERVICE	
NEW 3430-A4-2	191+28.61	25.00	LT		255.3	70-2	34.7	VC1-R	C9-1N	T-1	(M5-9)	M2-11	1	E1-2A	15	1	(F3.16)	(G39	10)		K15	SET POLE AT EXISTING GRADE	
(EO6875)SP		RT			(35-2)	EG						1	(E1-2)					(1/0 AL	TRI)	165	(K15)	EXISTING SERVICE ACROSS HWY	
(XXXX)TEL	191+91.71	30.58	LT		(35-2)*	EG			(T-1A)*			1	(E1-2)								(MOP)	TELEPHONE LIFT POLE	
NEW 3430-A4-2A	193+18.53	30.84	LT		191.7	70-2	33.9	VC1-R	C9-1N	T-1		M2-12										SET INTERSET POLE AT EXISTING GRADE	
(3430-A4-3)	194+40.88	33.16	LT		(60-2)*	EG	(VC9-1N)*	(C9-1N)*	(T-1)*		(M2-11)*	1	(E1-2C)*		1	(F2)*					(3/K15)*		
												1	(E1-2A)*		1	(E3-10)*							
NEW 3430-A4-3	195+07.05	48.67	LT	12d. 35'44" RT.	191.8	65-2	39.3	VC8-R	C8-11	T-11	(M5-9)	M2-11	1	E1-2C	40/45	2	F2	(G39	25)		2/K15	SET POLE AT EXISTING GRADE USE ALLEY ARM FOR COMMUNICATIONS CABLES	
												1	E1-2A		2	E3-10							
												1	E1-2TEL										
(EO6874)SP	194+14.98	51.06	RT		(25-4)	EG						1	E1-2	15	1	F3.16		4/0 AL	TRI	140	2/K15	ADD GUY AND ANCHOR	
												1	E1-2		1	E3-10					(MOP)	EXISTING UG SERVICE	
																		(1/0 AL	TRI)	70	(MOH)	EXISTING OH SERVICE	
NEW EO6873 SP	193+83.40	49.65	RT		35-3	EG						1	E1-2	25	1	F3.16		1/0 AL	TRI	160	2/K15	NEW SERVICE POLE	
												1	E1-2		1	E3-10		(1/0 AL	TRI)	110	(MOH)	EXISTING OH SERVICE	
(XXXX)TEL	195+84.62	35.39	LT		(35-2)*	EG			(T-1A)*													TELEPHONE LIFT POLE	
(3430-A4-4)	197+50.29	34.67	LT		(60-2)*	EG	(VC9-1N)*	(C9-1N)*	(T-1)*		(M2-12)*	2	(E1-2A)*		1	(F2)*							
												1	(E1-2TEL)*		1	(E3-10)*							
NEW 3430-A4-3A	196+99.00	38.07	LT		195.0	70-2	37.0	VC1-R	C9-1N	T-1		M2-12										SET POLE AT EXISTING GRADE ADD 6" FILL AROUND POLE FOR 60' AFG MAX.	
(3430-A4-5)	199+05.47	35.12	LT		(45-2)*	EG		(C9-1N)*	(T-1A)*		(M2-11)*	1	(E1-2A)*		1	(F2)*					(K15)*	REMOVE AND INSTALL SERVICE	
												1	(E1-2A)*		1	(E3-10)*							
NEW 3430-A4-5	199+09.48	36.50	LT	3d. 52'08" RT.	213.0	70-2	40.5	VC2-R	C9-N	T-1	(M5-9)	M2-11	1	E1-2C	24	1	F2	(G39	25)		K15	SET POLE AT EXISTING GRADE	
												1	E1-2A		1	E3-10							
												1	E1-2TEL										
(EO6940)SP	198+73.13	35.45	RT		(40-2)	EG						1	E1-2	25	1	F3.16		4/0 AL	TRI	85	(K15)	EXISTING SERVICE ACROSS HWY	
												1	E1-2		1	E3-10					(MOP)		
(3430-B4-1)	200+76.94	39.81	LT		(60-2)*	EG	(VC9-1N)*	(C9-1N)*	(T-1A)*		(M2-11)*	1	(E1-2C)*		1	(F2)*					(K15)*		
												1	(E1-2A)*		1	(E3-10)*							
NEW 3430-B4-1	200+76.94	36.00	LT	0d. 25'46" RT.	169.5	65-2	EG	VC1-R	C9-1N	T-1	(M5-9)	M2-11	1	E1-2C	12	1	(F2)	(G39	10)	4/0 AL	UG TRI	125	
												1	E1-2A		1	E3-10				2" SCH 80	PVC CON.	75	MOH
(EO6974)TELSP	202+05.40	48.13	LT		(35-2)*	EG			(T-1)*									(1/0 AL	TRI)*	130	(K15)*	TELEPHONE LIFT POLE	
NEW 3430-A4-1																		(1/0 AL	TRI)*	80			REMOVE EXISTING OH SERVICE TO GARAGE
(3430-B4-3)	203+06.59	48.90	LT	8d. 28'00" RT.	233.2	(60-2)	EG	(VC 9-1N)	(C9-1N)	(T-1)	(M5-9)	(M2-11)	1	(E1-2C)		1	(F 2)	(G39	10)		(K15)	ADD GUY	
												1	E1-2A	20	1	E3-10		(1/0 AL	TRI)	110	(K15)	EXISTING OH SERVICE	
																					(MOP)		

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

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE *NYS* Date 11/16/12

CHECKED BY: F. THORSTENSON 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION <b>KETCHIKAN - N. TONGASS HWY.                  WARD COVE TO WHIPPLE CREEK                  STAGE 2                  TOTEM BIGHT TO WHIPPLE CREEK                  ELECTRICAL                  STAKING SHEET</b>																					
DESIGNED BY: M. CARSON DRAWN BY: M. CARSON		PATH: Q:\KTN67443\PLANS\SET\67443_U14-U16_STAKING SHEETS.DWG TAB: U15 Wednesday, January 20, 2010 8:19:22 AM GRANTHAM, RICK L (DOT)																					
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REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																		
NO.	DATE	DESCRIPTION																					

STAKING SHEET FOR RELOCATED TAP, SERVICE AND GUY POLES

NORTHSTAR POWER ENGINEERING

PROJECT: 67443 DOT NORTH TONGASS HIGHWAY STAGE 2 ELECTRICAL DESIGN

VOLTAGE: 12.5 KV DISTRIBUTION

LOCATION: TOTEM BIGHT TO WHIPPLE CREEK

STAKED:

DATE: 11/25/2009

TRANSMISSION CONDUCTOR:

RULING SPAN:

RELEASED:

DISTRIBUTION CONDUCTOR: AS NOTED

MAP REFERENCE:

POLE NUMBER	STATION	OFFSET	POLE TYPE	BACK SPAN	POLE H & C	FINISHED GRADE	PRIMARY UNIT	DISTRIBUTION UNIT	TELEPHONE UNIT	MISC UNIT	GRND	PRIMARY CONDUCTORS			GUYING			TRANSF		SECONDARY			REMARKS			
												SIZE	TYPE	LENGTH	No.	GUY	LEAD	No.	ANG.	UNIT	SIZE	TYPE		LENGTH	UNIT	
EO6937	205+61.70	23.33 RT	SERVICE		(30-2)*	EG					(UM6-6)*				1	(E1-2)*					(1/0 AL)	TRI*	75	(K15)*	OPPOSITE ROCKY POINT ROAD	
	205+49.58	50.00 RT			35-3	58.8					UM6-6				1	E1-2	15				4/0 AL	TRI	110	K15	SET AT FINISHED GRADE	
EO6862	210+87.18	17.33 RT	GUY		(35-3)*	EG									3	(E2-2)*								(MOP)	INSTALL UG CABLES IN CONDUIT	
	210+86.58	44.00 RT			40-3	54.0									1	(E1-2)*									OPPOSITE POINT SUSAN ROAD	
															1	E2-2C	90								SET AT FINISHED GRADE	
															1	E2-2A										
															1	E2-2TEL										
3430-C4-9	212+58.70	24.18 RT	GUY		(30-2)*	EG									2	E1-2	18									
	212+57.47	44.00 RT			40-3	58.9									3	(E2-2)*										
															2	(E1-2)*										SET AT FINISHED GRADE
															1	E2-2C	90									
															1	E2-2A										
															1	E2-2TEL										
3430-C4-10	214+27.36	33.39 RT	GUY		(30-3)*	EG									2	E1-2	20									
	214+27.62	41.60 RT			40-3	61.1									3	(E2-2)*										OPPOSITE KINGFISHER ROAD
															2	(E1-2)*										
															1	E2-2C	85									SET AT FINISHED GRADE
															1	E2-2A										
															1	E2-2TEL										
3430-C4-15	216+05.09	32.13 RT	ST LIGHT		(35-3)*	EG									2	E1-2	25									
	216+89.31	34.00 RT			35-STL	68.0																				
7287	235+93.81	40.30 RT	SERVICE		(19-STL)*	EG																				
	235+73.12	34.00 RT			40-3	99.7																				
3540-B4-26	249+42.65	49.01 RT	1 PH TAP		(45-1)	EG		(A 6)																		
3540-B4-18	252+12.68	42.66 RT	SERVICE		(25-3)*	EG																				
	252+13.50	50.60 RT			35-3	EG																				
EO0495	255+26.99	32.88 LT	MAINLINE		(65-3)	EG	(VC 1)	(C9-1N)	(T 1)																	
3540-B4-19	255+59.29	46.40 LT	1 PH TAP		(50-2)	EG		(A 3)																		
3540-B4-20	256+79.55	47.84 LT	SERVICE		(WP)*	EG																				
NEW	256+79.55	46.60 LT			30-3	EG																				
3540-C4-6	263+57.02	32.31 LT	MAINLINE		(60-2)	EG	(VC 9-1)	(C9-1N)	(T 1)																	
3540-C4-20	263+23.93	34.19 RT	1 PH TAP		(45-3)*	EG		(A 5-1)*																		
								(A 2)*																		
3540-C4-21	262+70.44	33.95 RT	GUY		(30-2)*	EG																				
3540-C4-22	263+34.14	178.10 RT	TERMINAL		(45-3)	EG		(A 1/A 5)																		
								UM 2																		
EO17000	265+35.99	27.40 RT	SERVICE		(35-2)*	EG																				
NEW	285+35.99	45.00 RT			35-3	135.2																				

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

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Date 4/16/13  
PE: MD

CHECKED BY: F. THORSTENSON



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

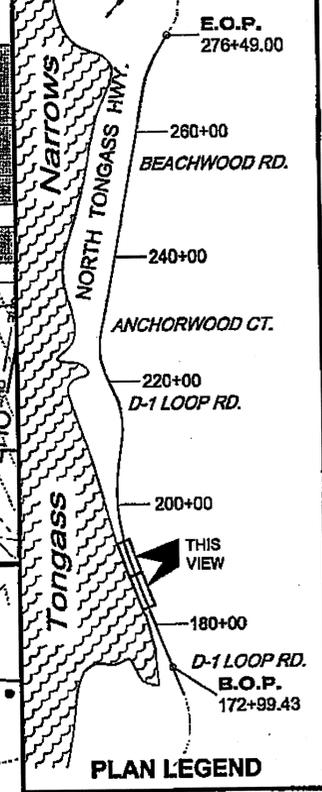
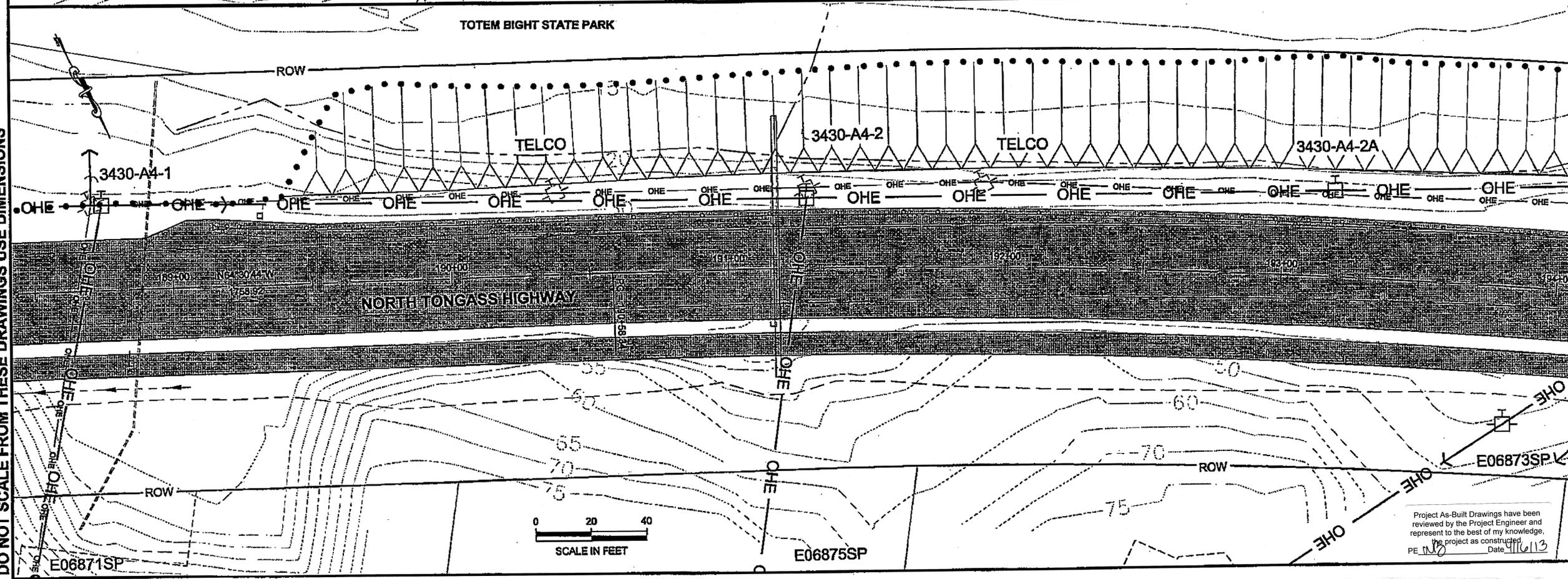
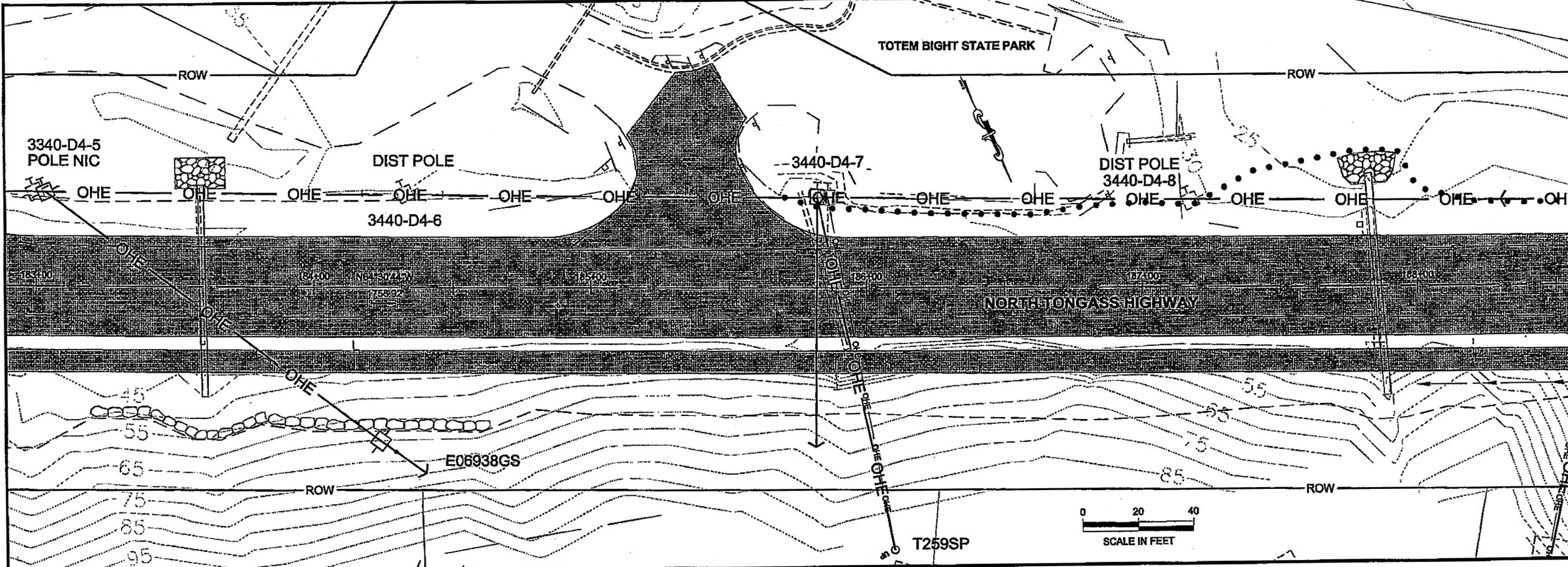
KETCHIKAN - N. TONGASS HWY.  
WARD COVE TO WHIPPLE CREEK  
STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK  
**ELECTRICAL  
STAKING SHEET**

DESIGNED BY: M. CARSON  
DRAWN BY: M. CARSON

PATH: Q:\KT\67443\PLANS\SET67443\_U14-U16\_STAKING SHEETS.DWG  
TAB: U16 Wednesday, January 20, 2010 8:19:27 AM GRANHAM, RICK L (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-ARA-0920(25) - 67443	2010	U16	102

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UTILITY.DWG  
TAB: U2 GRANTHAM, RICK L (DOT)  
ADDENDUM NUMBER  
ATTACHMENT NUMBER  
RECORD OF REVISIONS  
No. DATE DESCRIPTION



PLAN LEGEND  
CHECKED BY: F. THORSTENSON  
STATE OF ALASKA  
49th  
FRANK M. CARSON  
5504  
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: M. CARSON  
DRAWN BY: M. CARSON, R. GRANTHAM  
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION  
KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

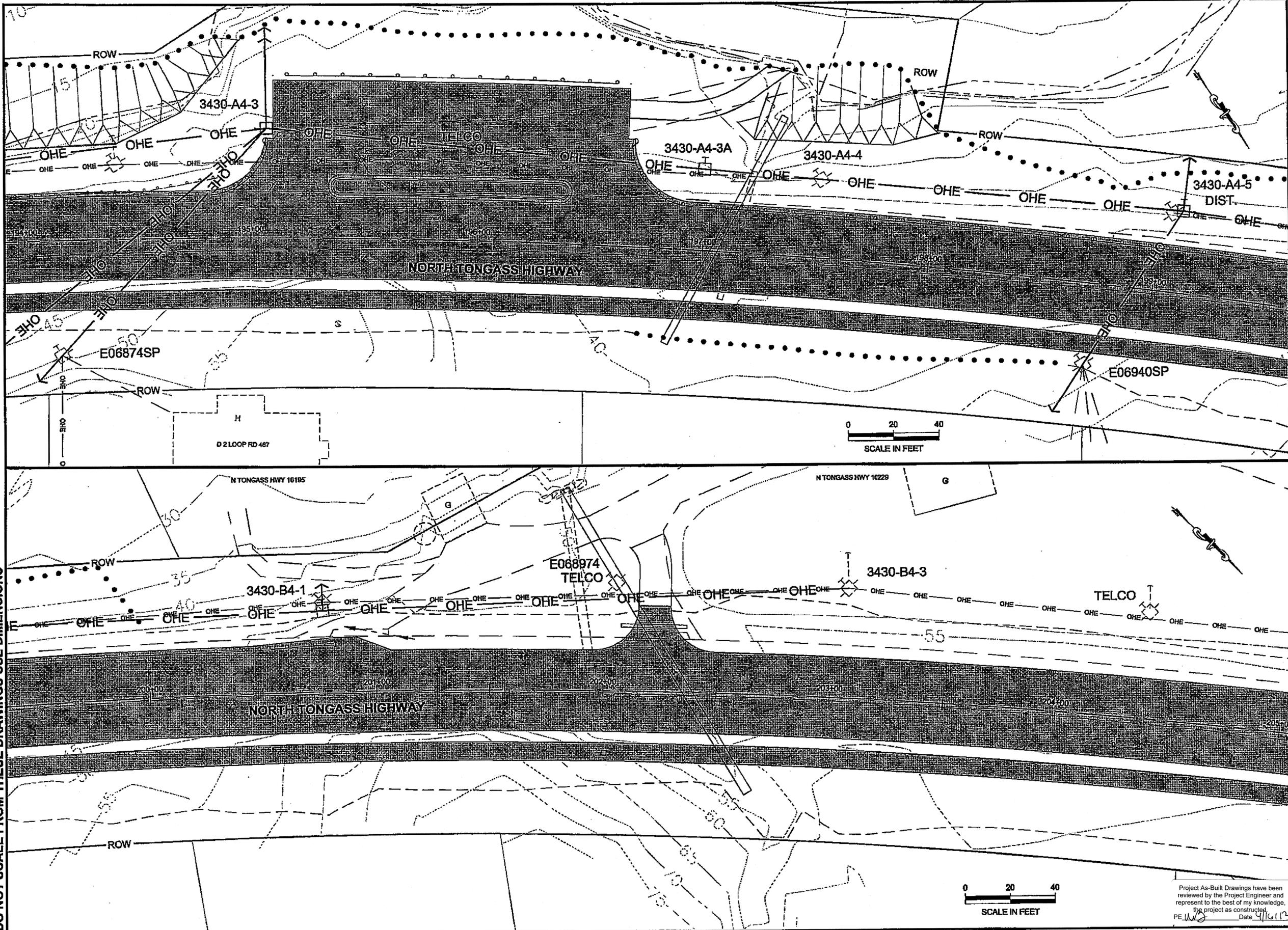
UTILITY PLANS

PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
U2	102

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: [Signature] Date: 11/6/13



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\CTM\67443\PLANSET\67443\_U1-U10\_UTILITY.DWG

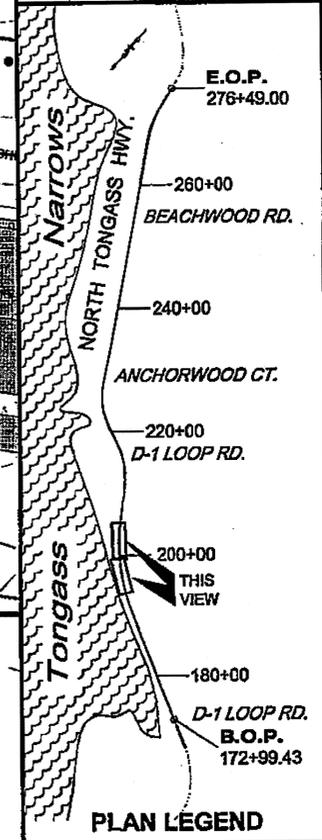
TAB: US GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: F. THORSTEINSON

DESIGNED BY: M. CARSON

DRAWN BY: M. CARSON, FL GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**UTILITY PLANS**

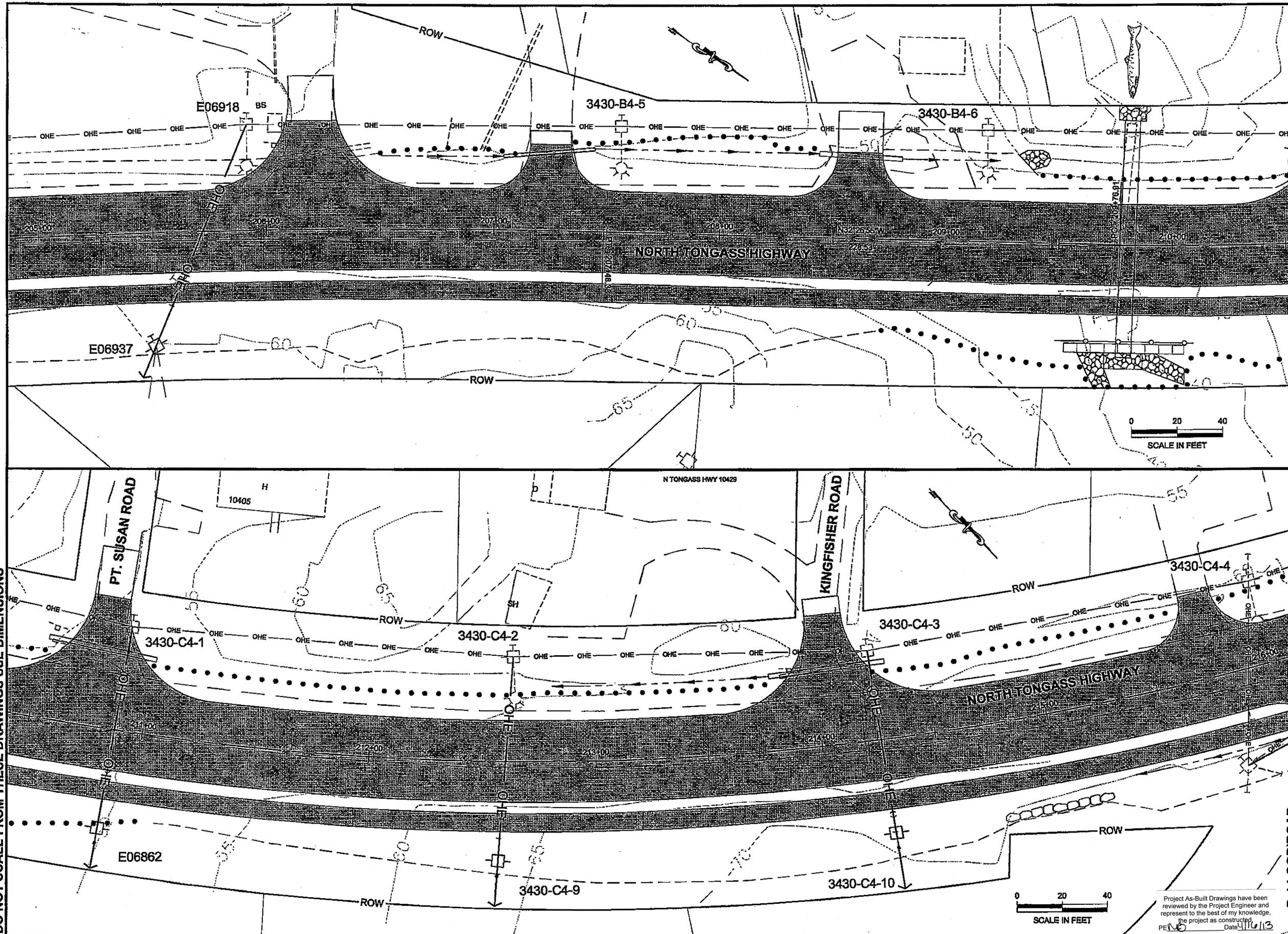
PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>U3</b>	<b>102</b>

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *[Signature]* Date: 4/16/13



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: C:\KT\167443\PLANSET\167443\_U4-U10  
UTILITY.DWG

TAB: U4 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

E.O.P.  
276+49.00

260+00  
BEACHWOOD RD.

240+00  
ANCHORWOOD CT.

220+00  
D-1 LOOP RD.

200+00

180+00  
D-1 LOOP RD.  
B.O.P.  
172+99.43

**PLAN LEGEND**

CHECKED BY: F. THORSTEINSON

DESIGNED BY: M. CARSON

DRAWN BY: M. CARSON, R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

**UTILITY PLANS**

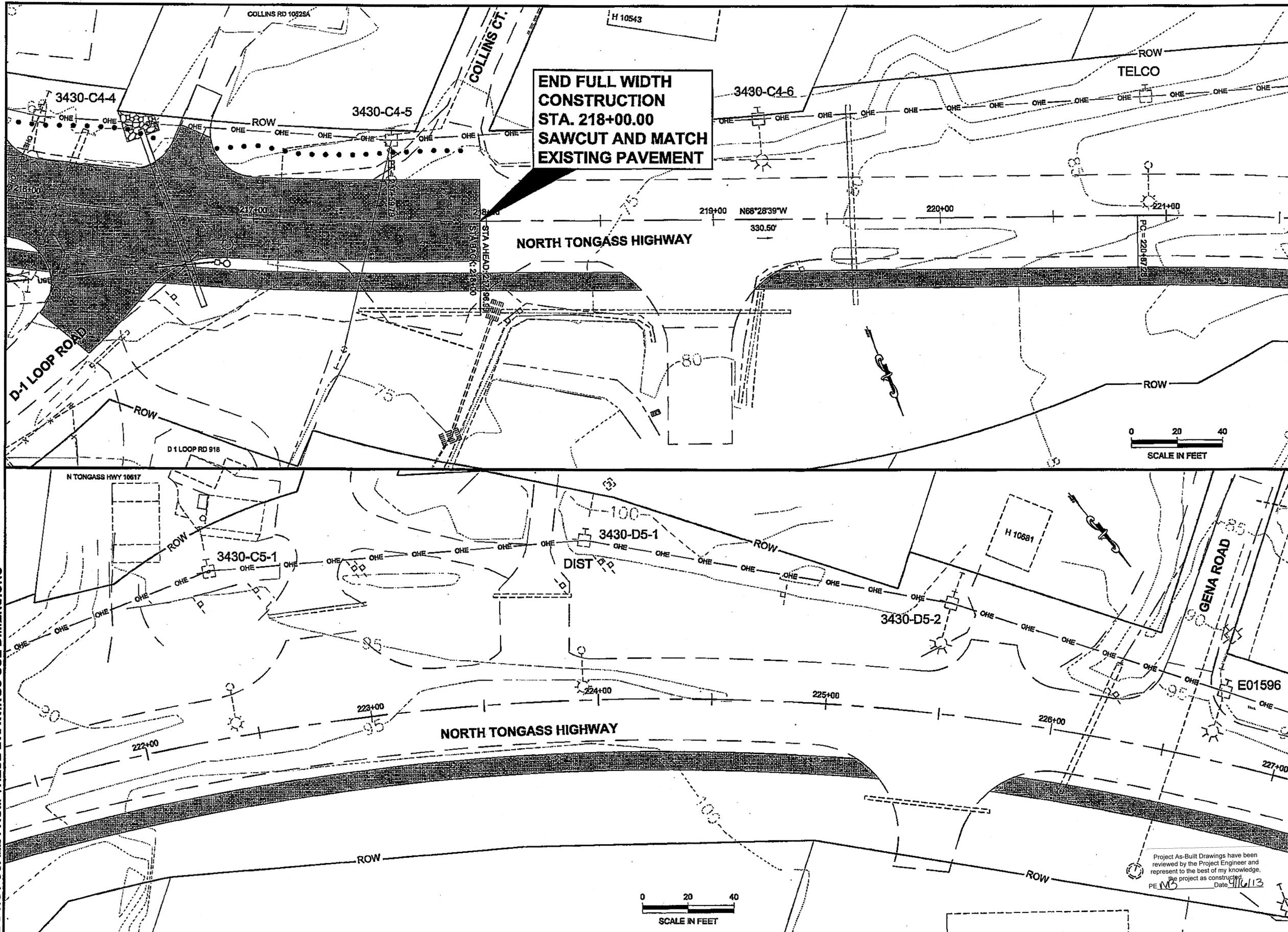
PROJECT DESIGNATION  
NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
U4	102

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PEN: [Signature] Date: 4/16/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



**END FULL WIDTH  
CONSTRUCTION  
STA. 218+00.00  
SAWCUT AND MATCH  
EXISTING PAVEMENT**

PATH: Q:\KTN\67443\PLANS\SET\67443\_U1-U19  
UTILITY.DWG

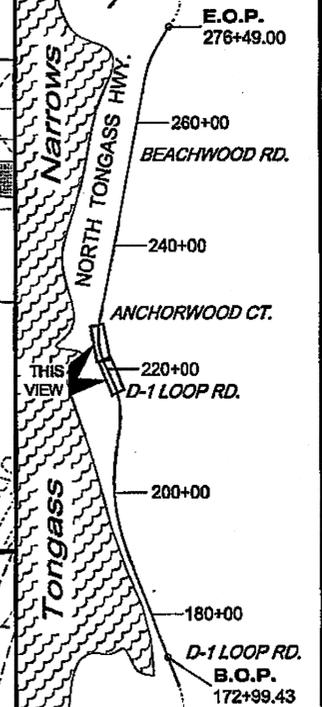
TAB: US GRANTHAM, RICK L (DOT)

APPENDIX NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



**PLAN LEGEND**

CHECKED BY: F. THORSTEINSON



DESIGNED BY: M. CARSON

DRAWN BY: M. CARSON, R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

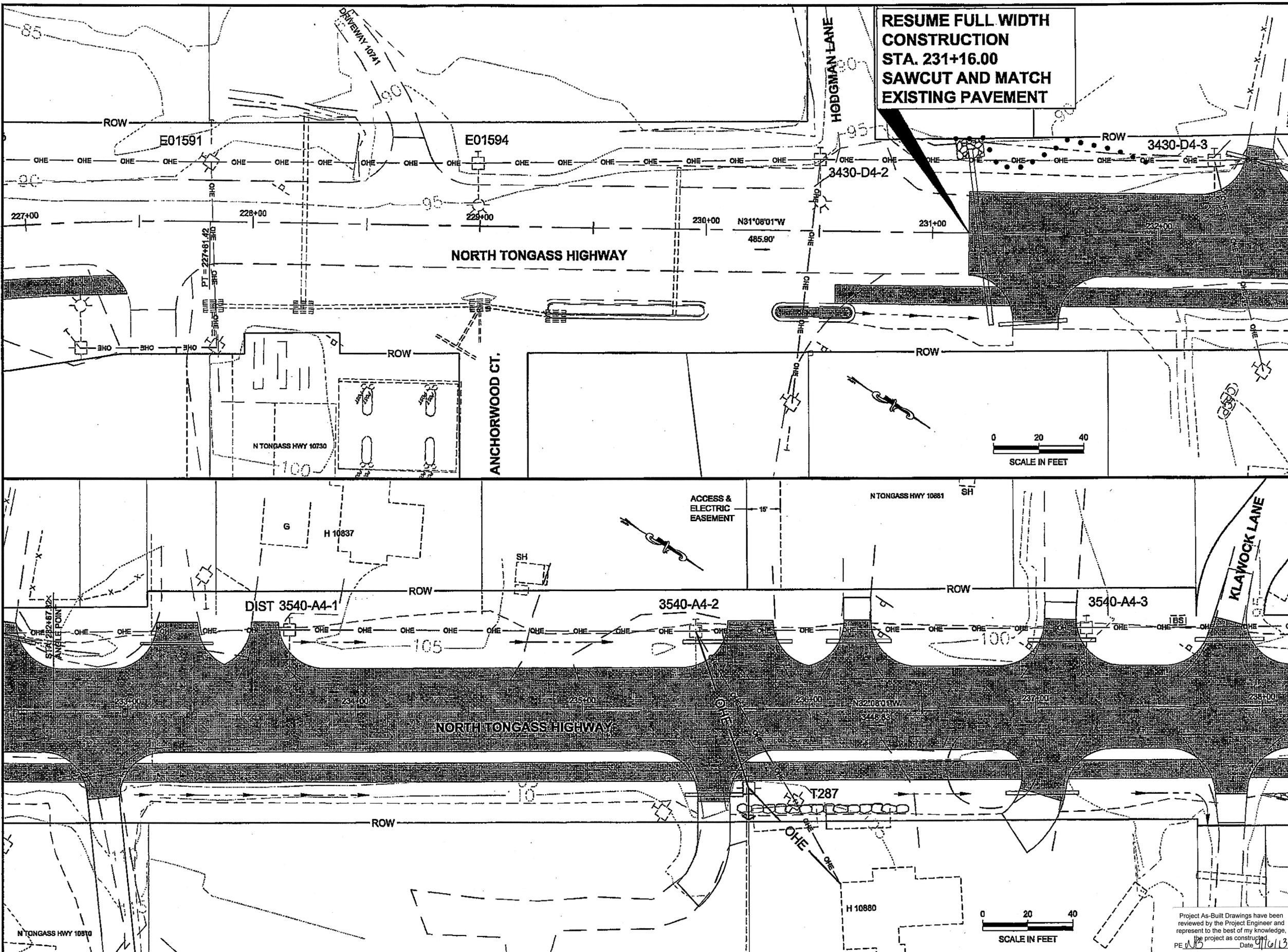
**UTILITY PLANS**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>U5</b>	<b>102</b>

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed, date 4/16/13  
PE: MS

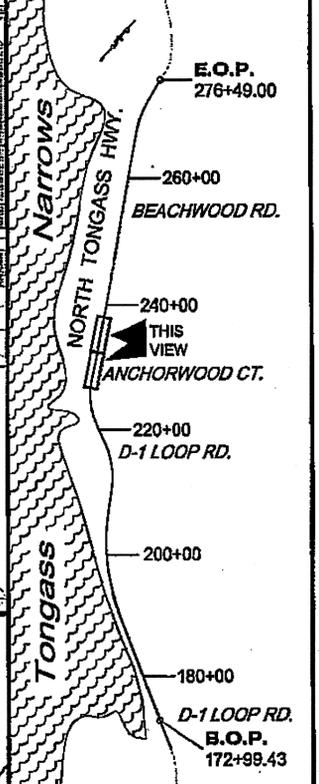
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



**RESUME FULL WIDTH CONSTRUCTION  
STA. 231+16.00  
SAWCUT AND MATCH  
EXISTING PAVEMENT**

PATH: Q:\KTR\67443\PLANSET\67443\_U1-310\_UTILITY.DWG

TAB: U6 GRANTHAM, RICK L (DOT)		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**PLAN LEGEND**

CHECKED BY: F. THORSTEINSON



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

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK**

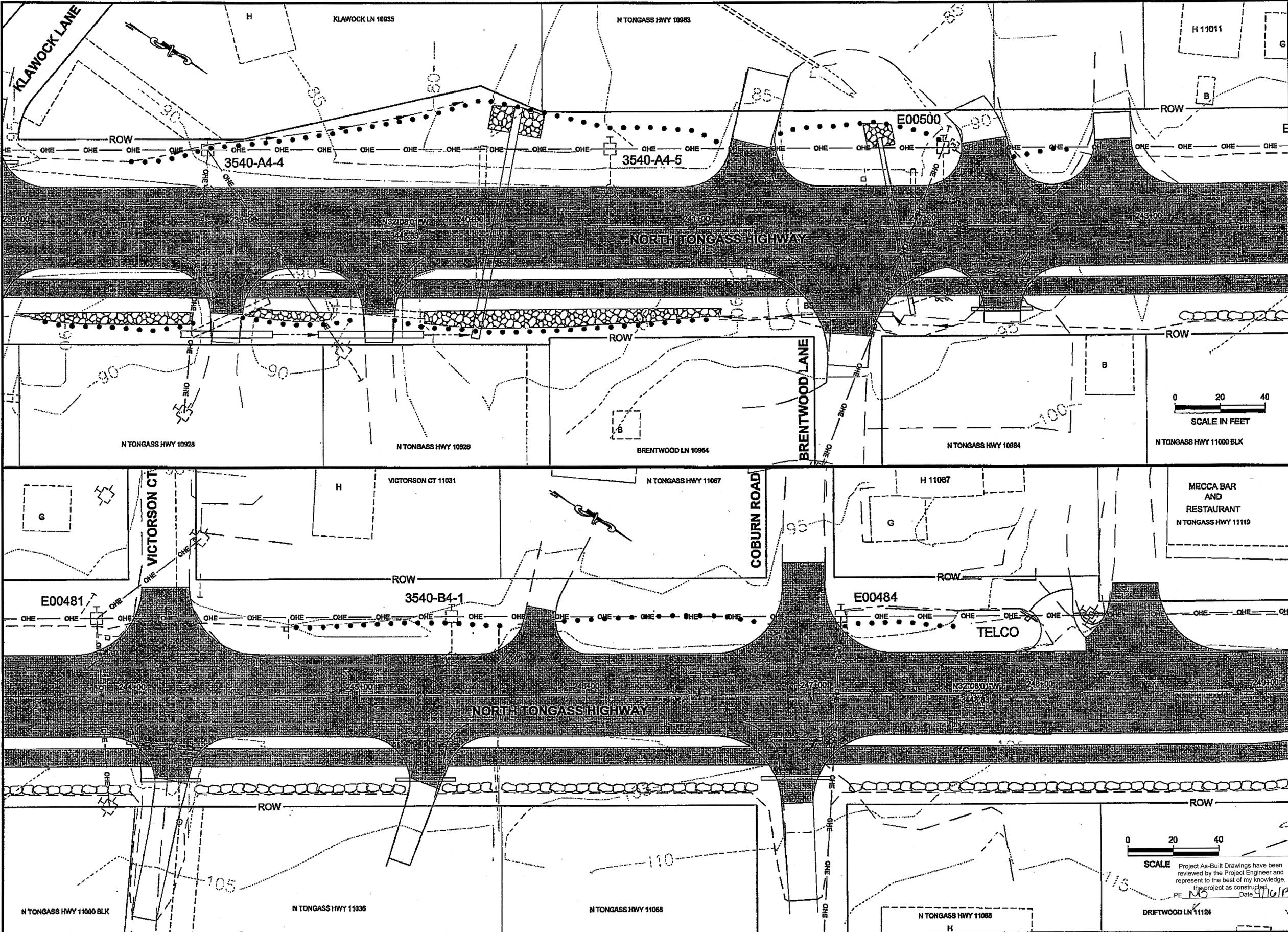
**UTILITY PLANS**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>U6</b>	<b>102</b>

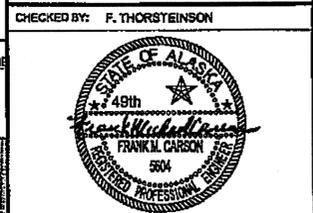
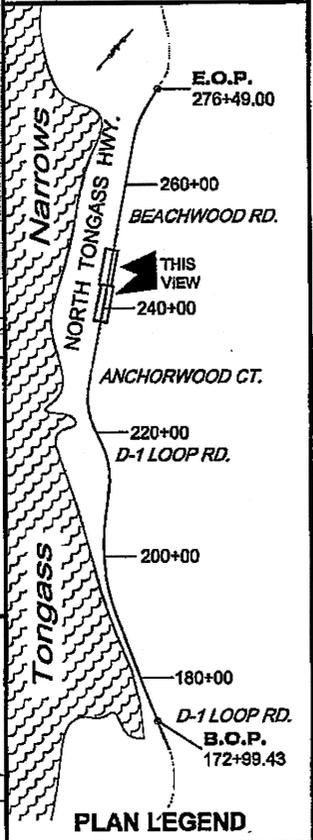
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *[Signature]* Date: 9/16/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: Q:\VTM67443\PLANSET\67443\_U1-010\_UTILITY.DWG  
 TAB: U7 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



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

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK

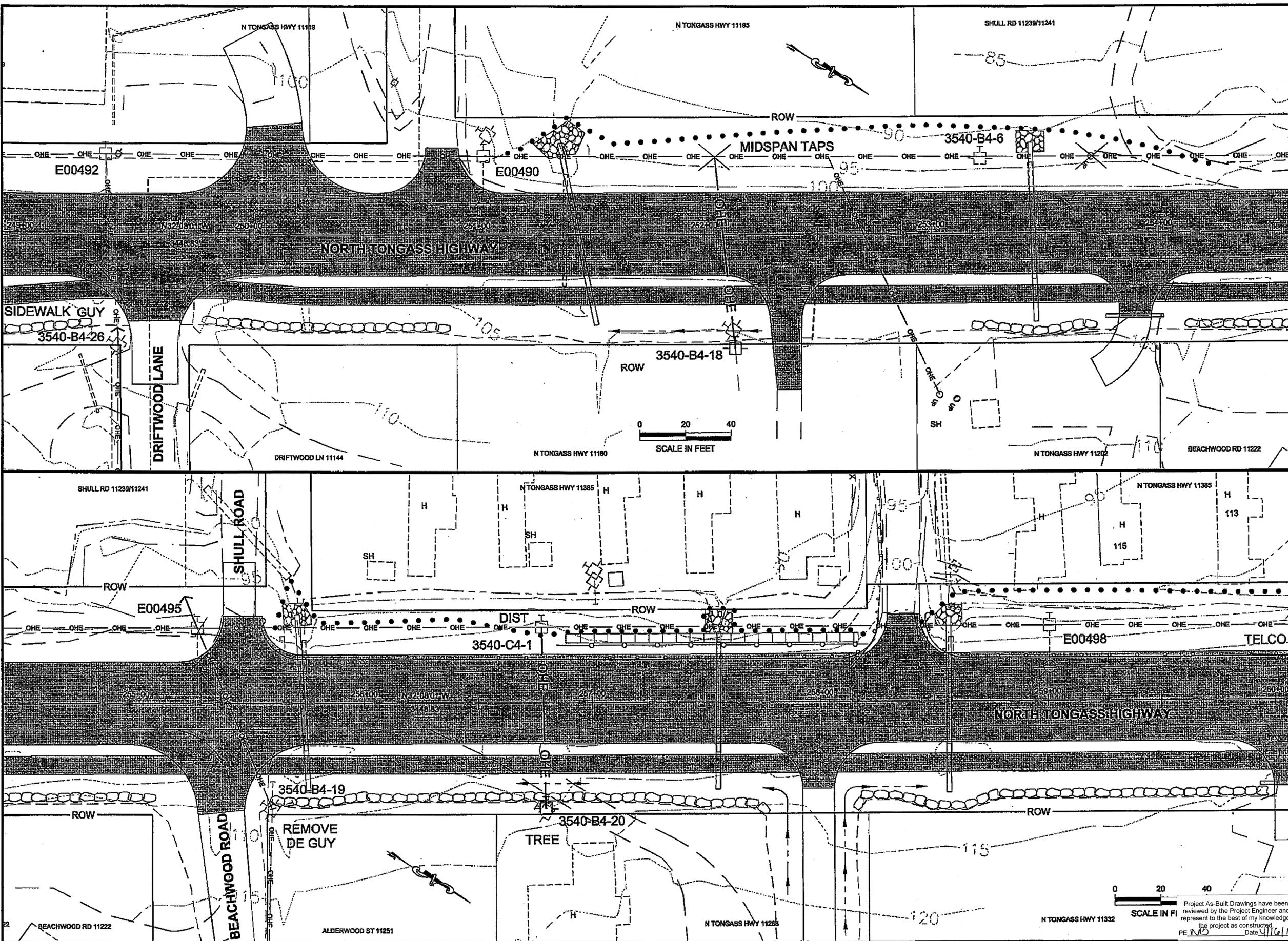
**UTILITY PLANS**

PROJECT DESIGNATION  
 NH-ARA-0920(25) - 67443

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
U7	102

SCALE Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: MO Date: 9/16/18

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



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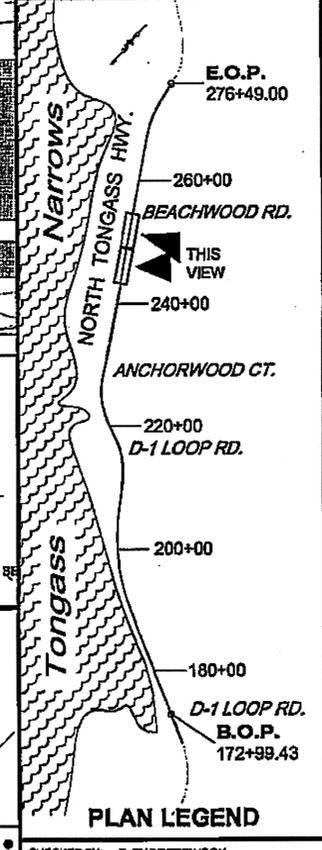
TASK: US GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: F. THORSTEINSON

DESIGNED BY: M. CARSON

DRAWN BY: M. CARSON, R. GRANTHAM

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION

KETCHIKAN - N. TONGASS HWY.  
WARD TO WHIPPLE - STAGE 2  
TOTEM BIGHT TO WHIPPLE CREEK

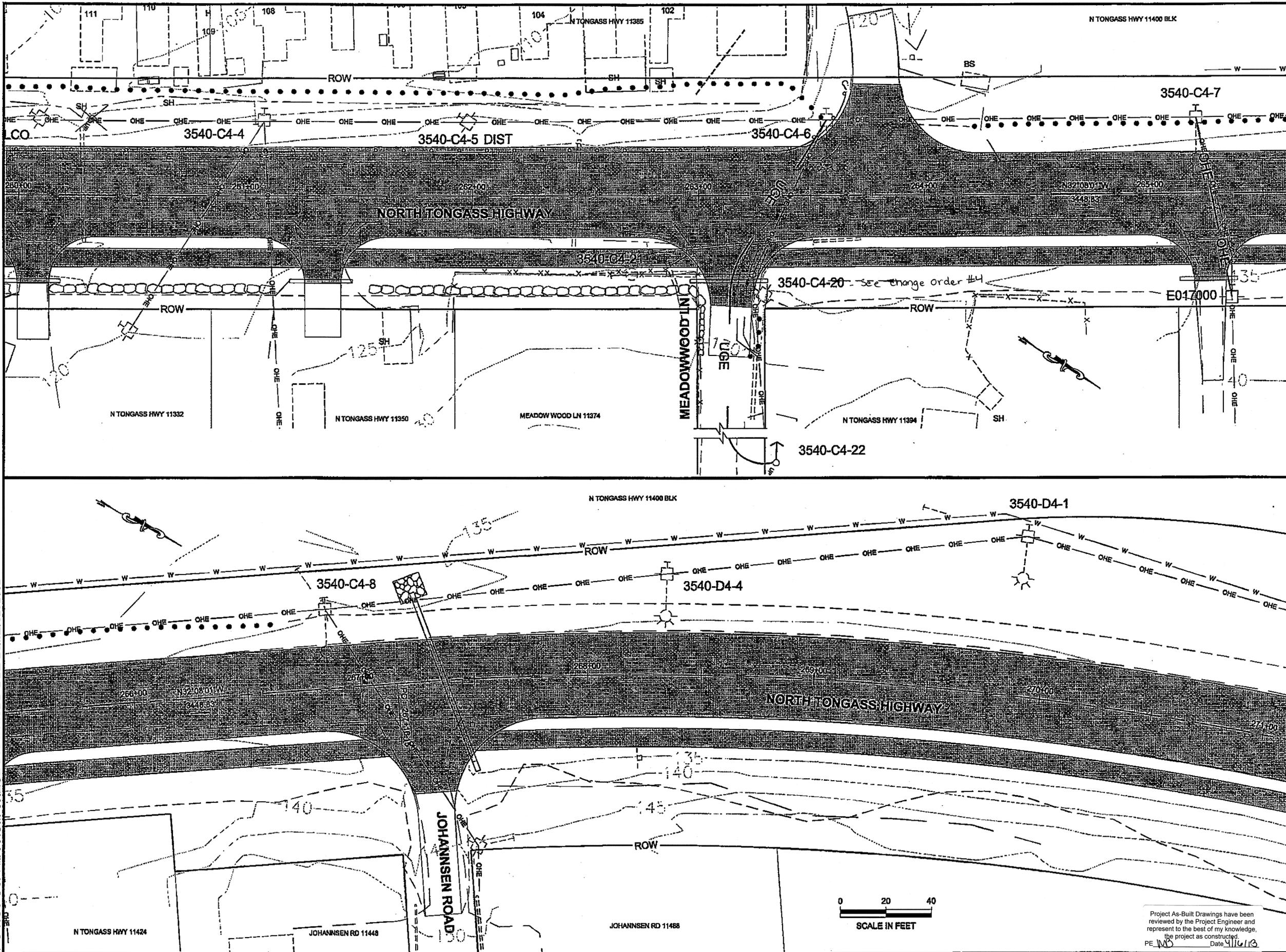
**UTILITY PLANS**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>U8</b>	<b>102</b>

0 20 40  
SCALE IN FEET

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed, date 4/16/13  
PE: *NO*



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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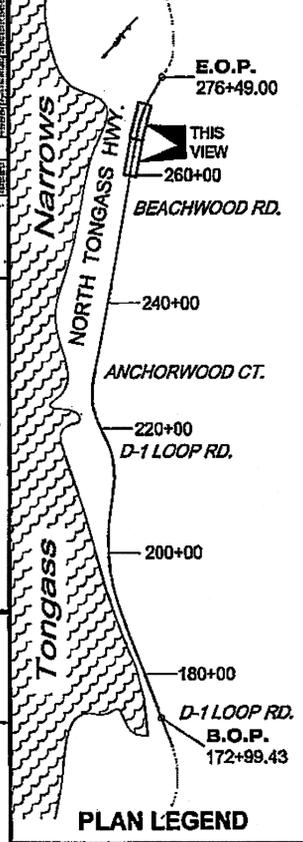
TAB: U9 GRANTHAM, RICK L (DOT)

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: F. THORSTEINSON



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

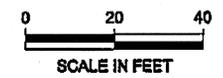
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION

**KETCHIKAN - N. TONGASS HWY.  
 WARD TO WHIPPLE - STAGE 2  
 TOTEM BIGHT TO WHIPPLE CREEK**

**UTILITY PLANS**

PROJECT DESIGNATION  
**NH-ARA-0920(25) - 67443**

STATE	YEAR
<b>ALASKA</b>	<b>2010</b>
SHEET NUMBER	TOTAL SHEETS
<b>U9</b>	<b>102</b>



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *MD* Date: 4/16/10