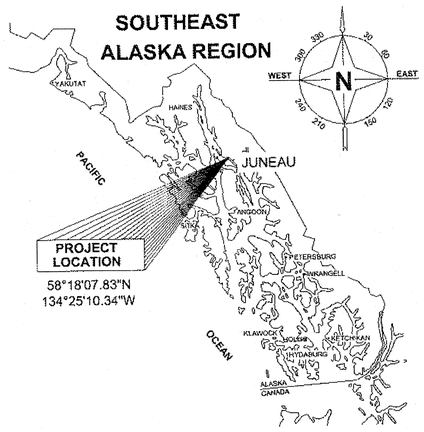
State of Alaska

Department of Transportation and Public Facilities Southeast Region

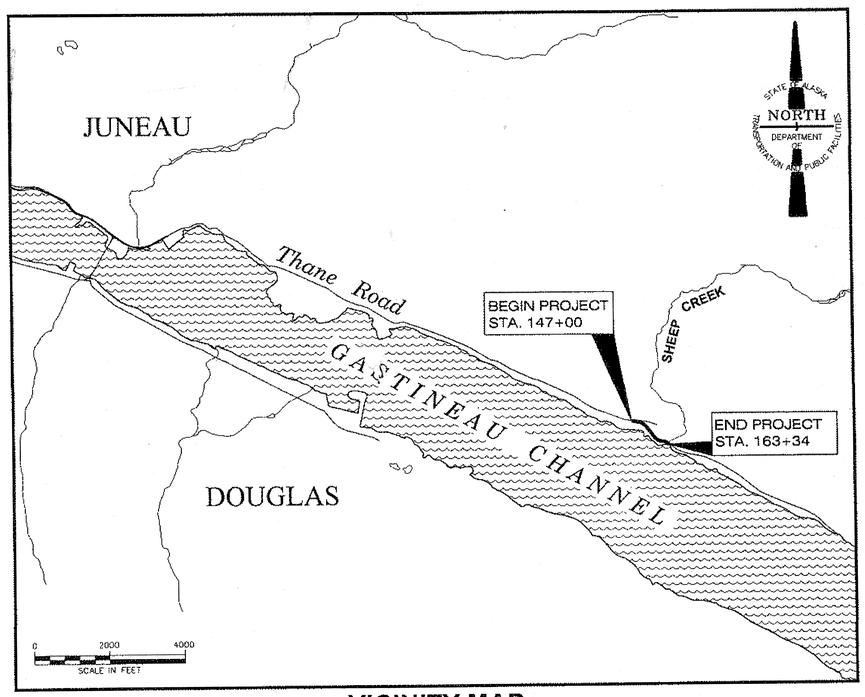
JUNEAU: THANE ROAD CURVE AT SHEEP CREEK SAFETY IMPROVEMENT

PROJECT No. HHE-0963(3)~69331



As-Built Plans

CONTRACTOR : SECON
PROJECT ENGINEER : Val Bean
BEGIN DATE : July 19, 2013
END DATE : October 24, 2013



VICINITY MAP

DESIGN DESIGNATION

PROJECT TYPE	=	HSIP
FUNCTIONAL CLASSIFICATION	=	URBAN COLLECTOR
PRESENT A.D.T. (2009)	=	1950
DESIGN YEAR A.D.T. (2033)	=	2200
MID DESIGN YEAR A.D.T. (2023)	=	2090
D.H.V. (12%) (2033)	=	260
PERCENT COMMERCIAL TRUCKS	=	11.5%
DIRECTIONAL DISTRIBUTION	=	55/45
V	=	45 M.P.H.
E.A.L.	=	450,000
PAVEMENT DESIGN YEAR	=	2028
DESIGN VEHICLE	=	WB-50
DESIGN V	=	45 M.P.H.

PROJECT SUMMARY

LENGTH OF PROJECT	=	1634 FT
LENGTH OF RESURFACING	=	0.31 MILES
WIDTH OF RESURFACING	=	22-32 FT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	D-22.01	G-04.10W	M-20.13	S-30.03
C-05.20	D-23.01	G-10.01	M-23.12	T-6.00
D-01.02	D-26.02	G-13.00	S-00.11	T-20.03
D-04.21	E-13.00	G-20.11	S-01.00	T-21.03
D-07.00	G-00.02	G-30.00	S-05.01	
	G-04.06S	I-20.14	S-20.10	
		I-81.00		

INDEX

ROUTE: 296011 | MILEPOINT: 3.80 - 4.11

PATH: Q:\JNU\69331\PLANSET\69331_A1_TITLE.DWG TAB:A1

Wednesday, December 08, 2010 9:59:08 AM

PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49TH Keith D. Karpstein CE-12904 REGISTERED PROFESSIONAL ENGINEER 5/8/13

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/5/14

APPROVED: Chuck Correa 5/10/13
REGIONAL PRE-CONSTRUCTION ENGINEER DATE
CHUCK CORREA, P.E.

APPROVED: 5.10.2013
DIRECTOR, SOUTHEAST REGION DATE
ALBERT H. CLOUGH, CPG

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

2/9/2015
CONSTRUCTION PROJECT MANAGER DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HHE-0963(3)~69331	2013	A1	31

Basis of Horizontal Control:
Horizontal Control for this project is based on a department traverse from May of 1990. Adjustment held Alaska State Plane zone 1 Grid Bearings between NGS monuments "MINE" and "BAY" as S76°57'41"E.

Project Specific Basis of Horizontal Control

TH-6 (#6): 2" Aluminum cap grouted in sidewalk adjacent to outbound lane of Thane Road approximately 500' shy of Mt. Roberts Street.
Thane Grid N 497605.6985' E 202177.3068'

TH-7A (#210) : 1.5" Aluminum Cap grouted in AC adjacent to outbound lane of Thane Road approximately 100' beyond Mill Street.
Thane Grid N 496702.8862' E 203151.4307'

Basis of Vertical Control:
Vertical Control is Mean Lower Low Water based on levels from old CBJ benchmark publication. Project specific vertical control is TH-7A having an accepted elevation of 59.41 feet above MLLW.

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

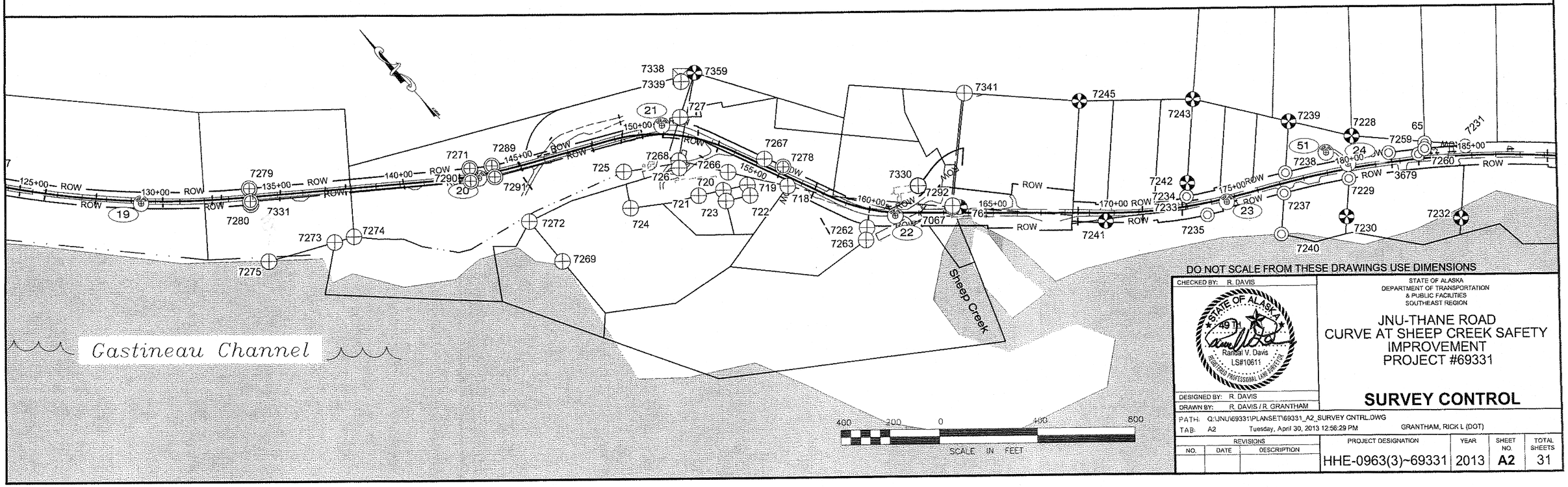
2. Whether listed or not, all monuments, property markers, or accessories that will be disturbed or buried shall be referenced prior to being disturbed, and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction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

CONTROL MONUMENTS

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
18	121+59.35	10.51 L	489329.5914	211507.2346	98.98	ALCTRL/REBAR_TH-18
19	129+40.34	9.73 R	488723.9230	212000.4082	93.52	ALCTRL/REBAR_TH-19
20	143+23.95	12.37 R	487871.6602	213091.9194	57.10	ALCTRL/REBAR_TH-20
21	150+92.04	34.71 L	487526.4111	213786.9700	62.24	ALCTRL/REBAR_TH-21
22	161+04.90	13.17 R	486812.4326	214237.2802	28.92	ALCTRL/REBAR_TH-22
23	174+62.23	13.91 R	485735.5498	215273.8562	50.66	ALCTRL/REBAR_TH-23

PROPERTY MONUMENTS

POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
7276	121+04.00	33.39 L	489386.9612	211487.3442	BPR_BC_ROW_144+66.2
7281	122+66.99	32.90 R	489218.2620	211539.1726	BPR_BC_ROW_146+29.8
7277	122+67.79	33.58 L	489257.5711	211592.7925	BPR_BC_ROW_146+29.8
7279	133+88.51	34.68 L	488469.8522	212370.5376	BPR_BC_RPPT_157+50.9
7331	133+88.71	18.09 R	488427.7248	212338.7553	BPR_BC_RPPT_157+50.9
7280	133+88.90	30.62 R	488417.6382	212331.3246	BPR_BC_RPPT_157+50.9
7275	134+41.36	266.57 R	488198.0769	212230.2455	PIN_ROCK_MS900_C5
7273	137+10.96	212.85 R	488077.6310	212477.3558	BC_NOSTAMP_C1_ATS_203
7274	137+91.77	196.90 R	488041.4057	212551.3293	BC_777E_C2_ATS_203
7290	142+90.00	19.05 R	487885.1290	213059.6580	BPR_BC_ROW_166+529
7271	142+93.94	32.85 L	487925.8351	213091.1790	BPR_BC_ROW_166+529
7289	143+85.16	26.06 L	487873.4320	213164.0730	BPR_BC_ROW_167+43.4
7291	143+87.45	19.48 R	487832.3490	213142.9410	BPR_BC_ROW_167+43.4
7272	144+74.15	228.27 R	487605.1057	213122.1074	ATS_1328_C1_TRB-3
7269	145+55.50	419.57 R	487395.4409	213112.2540	ATS_1328_WC17_TRB-3
724	148+87.16	287.65 R	487365.7479	213464.2750	ALPRIM3.5"_ATS1328_C3TRB3/C7TRB1
725	149+03.58	137.84 R	487492.3462	213545.1718	ALPRIM3.5"_ATS1328_HMSTD3_MS979
7338	151+45.57	239.11 L	487621.7448	213978.5573	ROW_POST_CONC_4"X4"/BRASS_"C2_S1078"
7339	151+48.52	218.50 L	487605.1573	213965.7172	BC3"_R&M_"C6_MS969/MS_280"
727	151+58.80	74.29 L	487501.2009	213865.0144	ALPRIM3.5"_SPINHOLE_D6USCE_1410S
7268	151+75.43	102.13 R	487375.5044	213740.1721	ALPRIM3"_ATS_1328_TR_B-1_C-1_/_ATS
726	151+82.89	131.61 R	487352.1232	213721.1590	ALPRIM3.5"_ATS1328_TRA/TRB1_1410
7359	151+84.96	261.31 L	487595.2755	214029.8149	STONE_C3_MS260/C6_MS979
721	153+20.15	222.30 R	487216.5895	213701.7841	ALPRIM3.5"_ATS1328_C5TRB1/C5TRB3
7266	154+08.94	86.23 R	487205.8436	213855.5154	ALPRIM3"_ATS_1328_TR_B-1_C-2
720	154+22.18	161.35 R	487165.0529	213791.0579	ALPRIM3.5"_ATS1328_C4TRB1/C6TRB3
723	154+50.12	196.83 R	487125.7240	213768.8559	ALPRIM3.5"_ATS1328_C7TRB3/C4TRB2
719	155+01.29	100.37 R	487115.0447	213877.5282	ALPRIM3.5"_ATS1328_C3TRB1/C2TRB2
7267	155+19.30	25.36 L	487146.1600	214000.6697	ALPRIM3"_ATS_1328_TR_B-1_C-9
722	155+28.50	134.79 R	487076.8015	213856.0263	ALPRIM3.5"_SPINHOLE_ATS1328_C3TR
7278	156+01.38	27.84 L	487071.1821	214034.1532	BPR_BC_RP_POT
718	156+50.77	34.83 R	487001.6789	213994.9458	ALPRIM3.5"_ATS1328_C10TRB3/C1TRB
7262	160+02.22	74.47 R	486655.3796	214119.9908	ALPRIM3"_ATS_1328_TR_B-3_C-10
7263	160+06.97	124.37 R	486621.2515	214083.1874	ALPRIM3"_ATS_1328_TR_B-3_C-11
7330	161+98.22	110.33 L	486639.0234	214389.5357	BPR_BC_ROW_186+35
7067	163+35.96	22.83 L	486481.3290	214431.4740	C1_USMS_72B_R&M
7292	163+36.74	29.01 L	486485.3390	214436.2418	C13_ATS203\C1_USMS72B_RESET(?)
76	163+64.74	23.38 L	486462.2257	214453.0069	STONE_C1_MS71B/MS72B
7341	163+87.43	487.95 L	486788.3737	214784.6214	R&M_MS71B\MS72B
7245	168+63.51	455.57 L	486441.8441	215112.6631	GLO_BC_C4_MS72B\C2_S2572
7241	169+66.03	32.65 R	486013.4053	214857.0881	GLO_BC_USLM2572
7234	173+03.40	40.32 L	485863.6020	215166.9222	IP_1"
7233	173+03.69	41.41 L	485864.3519	215167.7637	PLASCAP_ALTECH"
7242	173+17.36	94.27 L	485901.3647	215207.7513	BLM_WCMC_C4S2572/S3269
7235	173+73.53	48.23 R	485751.1985	215178.8007	ALSEC2"_DOT/PF_MON_ROW
7243	174+20.77	423.70 L	486134.5982	215457.2684	GLO_BC_C3S2572/S3269



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: R. DAVIS
DESIGNED BY: R. DAVIS
DRAWN BY: R. DAVIS / R. GRANTHAM
PATH: Q:\JNU\69331\PLANSET\69331_A2_SURVEY CNTRL.DWG
TAB: A2 Tuesday, April 30, 2013 12:56:29 PM GRANTHAM, RICK L (DOT)

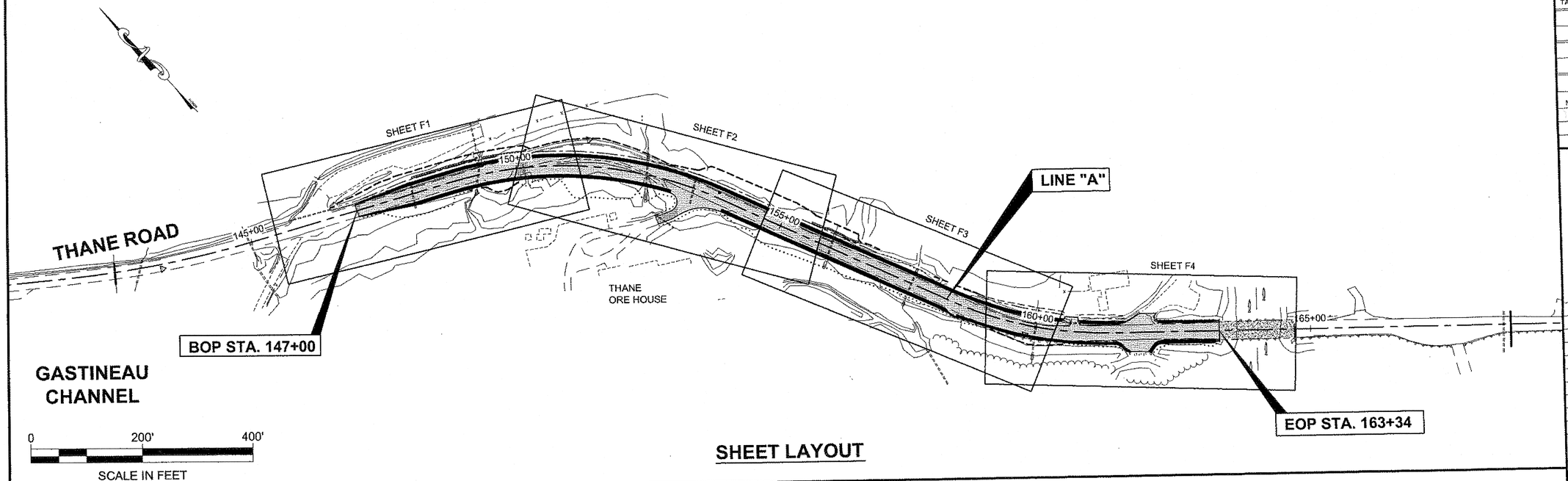
STATE OF ALASKA
Randal V. Davis
LS#10611
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

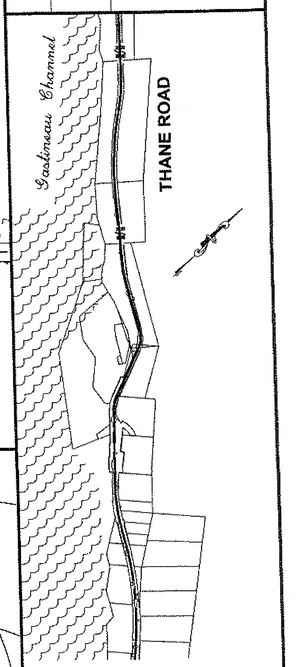
JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY
IMPROVEMENT
PROJECT #69331

SURVEY CONTROL

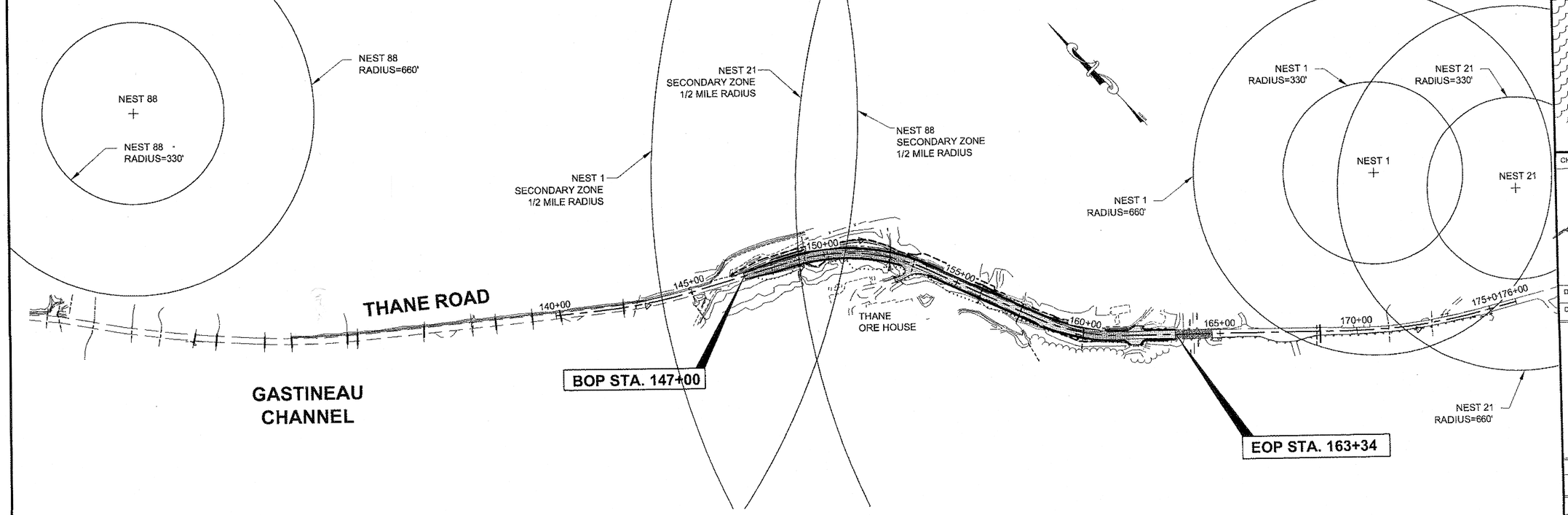
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	A2	31



SHEET LAYOUT



PLAN LEGEND



EAGLE NESTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
Q:\JNU\69331\PLANSET\69331_A3_LAYOUT.DWG

GRANTHAM, RICK L (DOT)
TAB: A3 Tuesday, April 30, 2013 12:57:03 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
49th
Keith D. Karpstein
CE-12904
REGISTERED PROFESSIONAL ENGINEER
5/3/13

DESIGNED BY: C. IVANISZEK

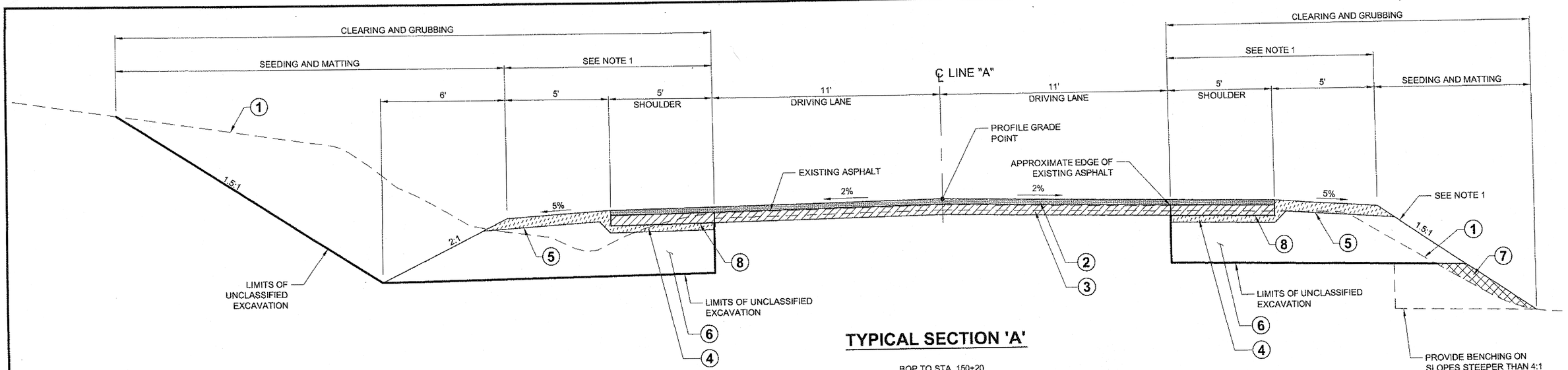
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

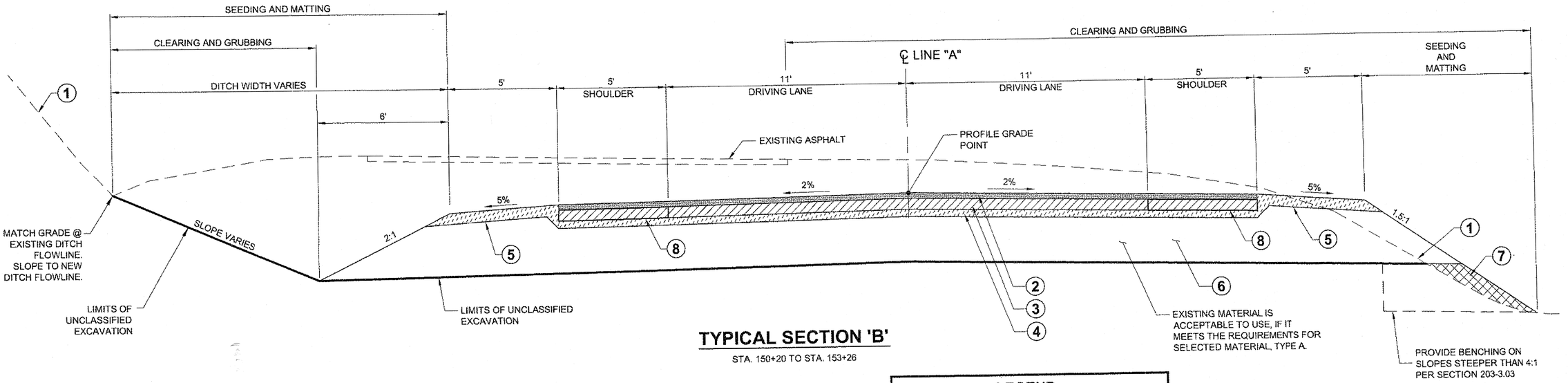
LAYOUT

PROJECT DESIGNATION	
HHE-0963(3)~69331	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
A3	31



TYPICAL SECTION 'A'

BOP TO STA. 150+20
SEE GRAVITY BLOCK WALL TYPICAL SECTION 'F' SHEET B3 FOR:
STA. 148+11 LT TO STA. 149+33.82 LT
STA. 149+43 LT TO STA. 150+20 LT



TYPICAL SECTION 'B'

STA. 150+20 TO STA. 153+26

LEGEND

1. EXISTING GROUND - VARIES
2. 2 1/2" ASPHALT CONCRETE, TYPE II, TYPE B
3. 6" CRUSHED ASPHALT BASE COURSE
4. 4" AGGREGATE BASE COURSE, GRADING D-1
5. 6" MIN. AGGREGATE BASE COURSE, GRADING D-1
6. 24" MIN. USEABLE ROCK EXCAVATION MEETING THE REQUIREMENTS OF SELECTED MATERIAL, TYPE A OR BORROW, TYPE A.
7. USABLE EXCAVATION MEETING THE REQUIREMENTS FOR SELECTED MATERIAL, TYPE C
8. MATERIAL REQUIRED FOR SHOULDER WIDENING IS PAID FOR AS 308(4) AGGREGATE FOR CABC

NOTES:

1. AT STA. 147+00 BEGIN A 100 FT. TRANSITION FROM A 1 FT. SHOULDER TO A 5 FT. PAVED SHOULDER AND 5 FT. UNPAVED SHOULDER.
2. DAYLIGHT SOIL CUT FROM STA. 149+30 RT TO STA. 150+00 RT.
3. WHEN CONSTRUCTING TYPICAL SECTIONS 'B', 'C' AND 'D', PULVERIZE EXISTING ASPHALT CONCRETE AND BASE COURSE TO A DEPTH OF 6" PRIOR TO EARTHWORK. STOCKPILE THE RESULTING MATERIAL AT AN APPROVED LOCATION TO REUSE AS CRUSHED ASPHALT BASE COURSE.
4. WHEN CONSTRUCTING TYPICAL SECTIONS 'A' AND 'E', PULVERIZE EXISTING ASPHALT CONCRETE AND BASE COURSE TO A DEPTH OF 6". LEAVE IN PLACE AS DESIGN GRADE ALLOWS IN ORDER TO CONSTRUCT CABC.
5. FOR WIDENING AND REALIGNMENT AREAS; PLACE AND COMPACT STOCKPILED MATERIAL ON TOP OF 4" OF COMPACTED AGGREGATE BASE COURSE, GRADING D-1 PRIOR TO MIXING WITH OIL AND CEMENT OR AGGREGATE FOR CABC.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
Keith D. Karpstein
CE-12904
REGISTERED PROFESSIONAL ENGINEER
5/8/13

DESIGNED BY: C. IVANISZEK
DRAWN BY: R. GRANTHAM

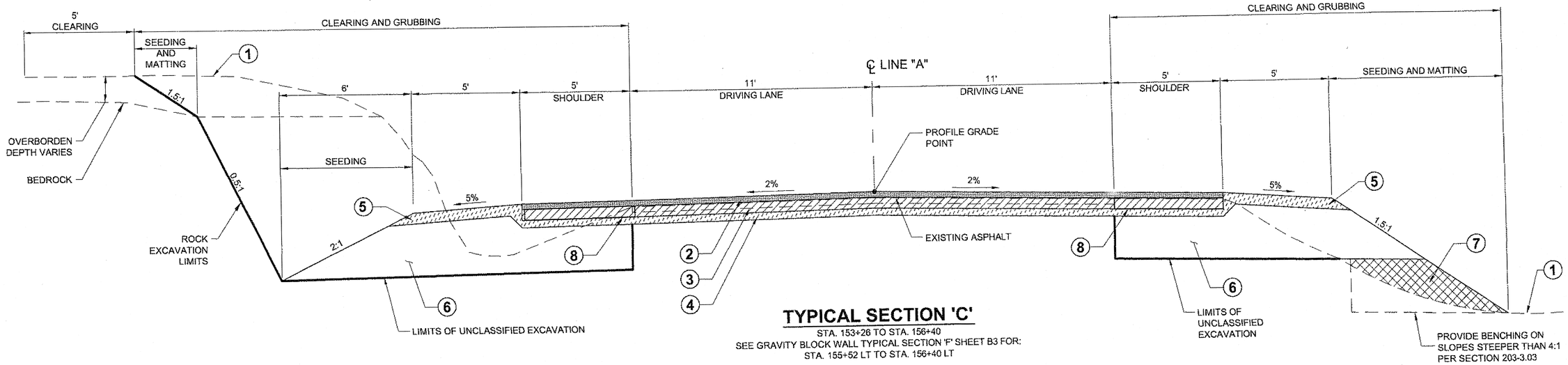
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD CURVE AT SHEEP CREEK SAFETY IMPROVEMENT PROJECT #69331

TYPICAL SECTIONS

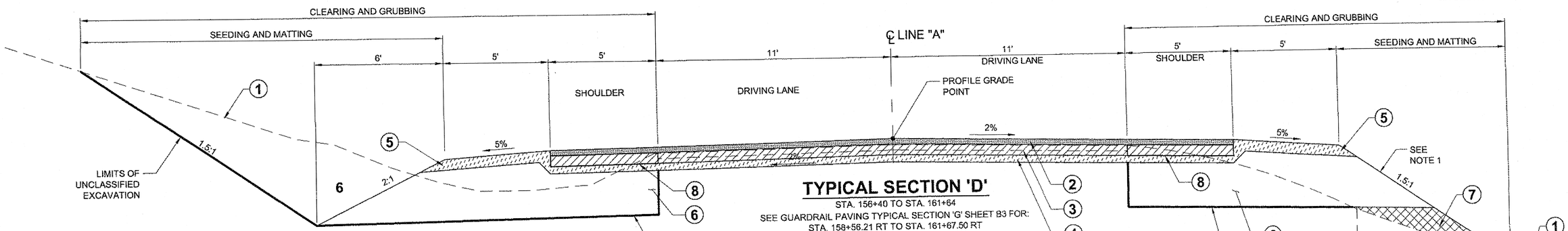
PATH: Q:\JNU\69331\PLANSET\69331_B1-B3_TYP.DWG
TAB: B1 Wednesday, May 08, 2013 11:18:07 AM GRANTHAM, RICK L (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	B1	31



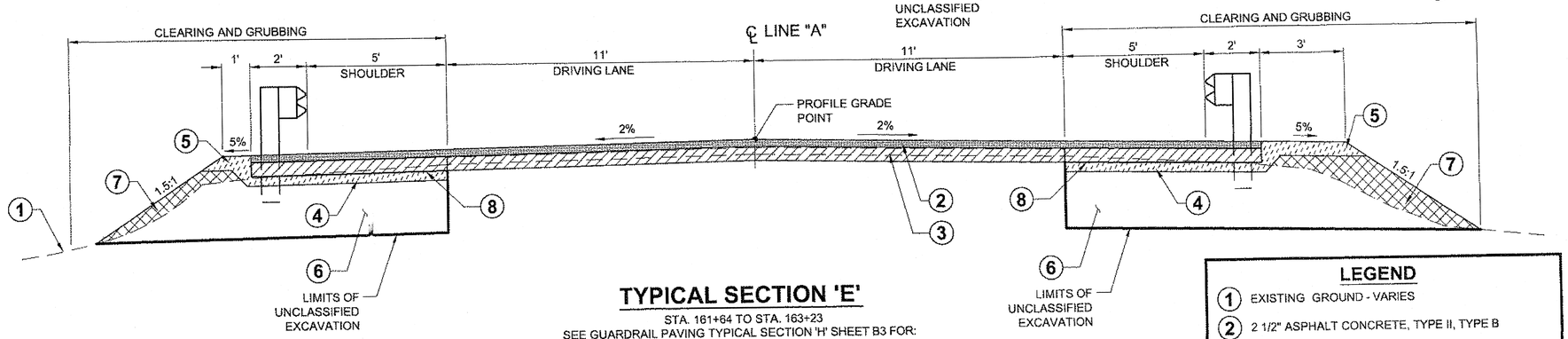
TYPICAL SECTION 'C'

STA. 153+26 TO STA. 156+40
SEE GRAVITY BLOCK WALL TYPICAL SECTION 'F' SHEET B3 FOR:
STA. 155+52 LT TO STA. 156+40 LT



TYPICAL SECTION 'D'

STA. 156+40 TO STA. 161+64
SEE GUARDRAIL PAVING TYPICAL SECTION 'G' SHEET B3 FOR:
STA. 158+56.21 RT TO STA. 161+67.50 RT



TYPICAL SECTION 'E'

STA. 161+64 TO STA. 163+23
SEE GUARDRAIL PAVING TYPICAL SECTION 'H' SHEET B3 FOR:
STA. 162+02.56 RT TO STA. 163+23 RT AND
STA. 162+21 LT TO STA. 163+23 LT

NOTES:

1. DAYLIGHT SOIL CUT FROM STA. 159+10 RT TO STA. 160+50 RT.
2. WHEN CONSTRUCTING TYPICAL SECTIONS 'B', 'C' AND 'D', PULVERIZE EXISTING ASPHALT CONCRETE AND BASE COURSE TO A DEPTH OF 6" PRIOR TO EARTHWORK. STOCKPILE THE RESULTING MATERIAL AT AN APPROVED LOCATION TO REUSE AS CRUSHED ASPHALT BASE COURSE.
3. WHEN CONSTRUCTING TYPICAL SECTIONS 'A' AND 'E', PULVERIZE EXISTING ASPHALT CONCRETE AND BASE COURSE TO A DEPTH OF 6". LEAVE IN PLACE AS DESIGN GRADE ALLOWS IN ORDER TO CONSTRUCT CABC.
4. FOR WIDENING AND REALIGNMENT AREAS; PLACE AND COMPACT STOCKPILED MATERIAL ON TOP OF 4" OF COMPACTED AGGREGATE BASE COURSE, GRADING D-1 PRIOR TO MIXING WITH OIL AND CEMENT OR AGGREGATE FOR CABC.

LEGEND

1. EXISTING GROUND - VARIES
2. 2 1/2" ASPHALT CONCRETE, TYPE II, TYPE B
3. 6" CRUSHED ASPHALT BASE COURSE
4. 4" AGGREGATE BASE COURSE, GRADING D-1
5. 6" MIN. AGGREGATE BASE COURSE, GRADING D-1
6. 24" MIN. USEABLE ROCK EXCAVATION MEETING THE REQUIREMENTS OF SELECTED MATERIAL, TYPE A OR BORROW, TYPE A.
7. USABLE EXCAVATION MEETING THE REQUIREMENTS FOR SELECTED MATERIAL, TYPE C
8. MATERIAL REQUIRED FOR SHOULDER WIDENING IS PAID FOR AS 308(4) AGGREGATE FOR CABC

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN
DESIGNED BY: C. IVANISZEK
DRAWN BY: R. GRANTHAM

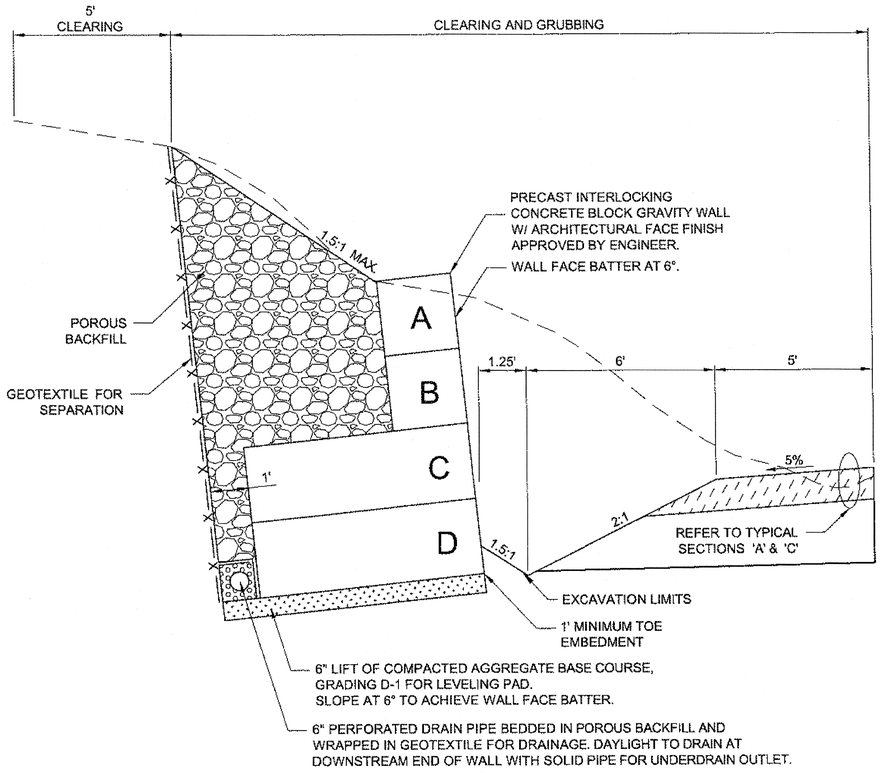
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD CURVE AT SHEEP CREEK SAFETY IMPROVEMENT PROJECT #69331

TYPICAL SECTIONS

PATH: O:\JNU\69331\PLANSET\69331_B1-B3_TYP.DWG
TAB: B2 Wednesday, May 08, 2013 11:19:25 AM GRANTHAM, RICK L (DOT)

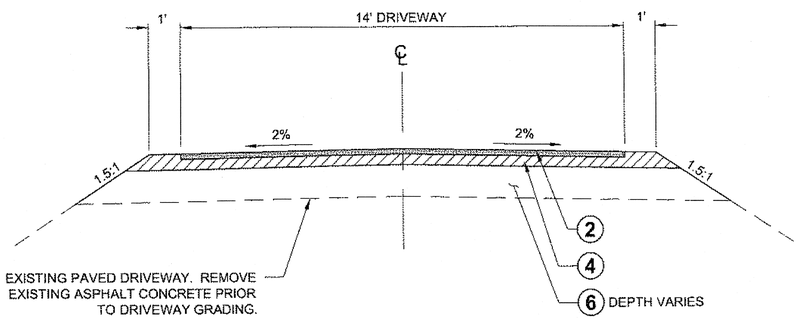
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	B2	31



TYPICAL SECTION 'F': GRAVITY BLOCK WALL

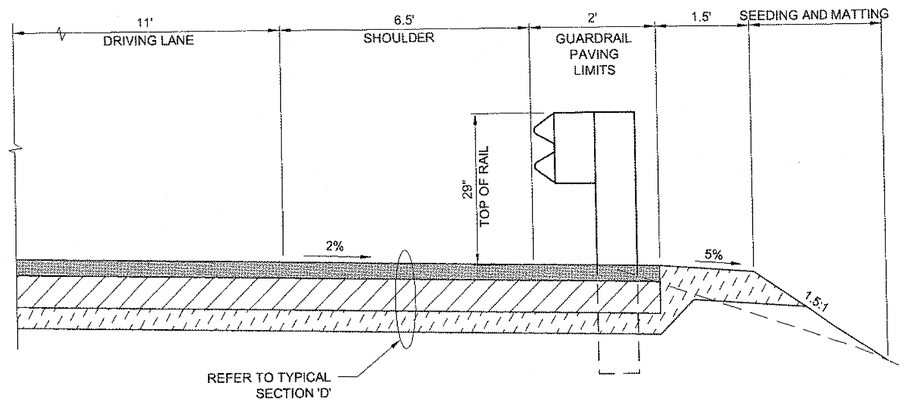
STA. 148+11 TO STA. 149+34.00
STA. 149+43 TO STA. 150+20.50
STA. 155+50 TO STA. 156+40.50
SEE SHEET P5 FOR DETAIL:
FROM STA. 155+75 TO STA. 156+15

PROVIDE THE FOLLOWING WALL CONFIGURATION BASED ON WALL HEIGHT.
≤2' : A
2' TO 4' : A & B
4' TO 6' : A, B & C
6' TO 8' : A, B, C & D



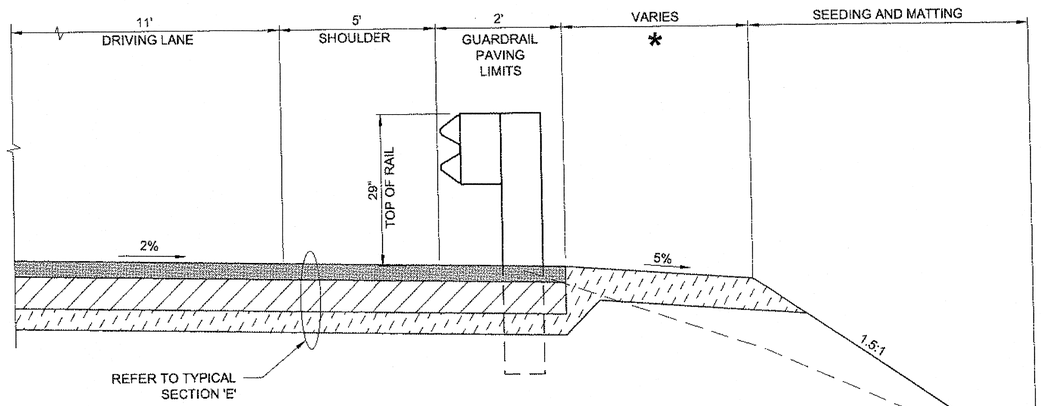
TYPICAL SECTION 'H': THANE ORE HOUSE DRIVEWAY

NTS



TYPICAL SECTION 'G': GUARDRAIL PAVING

STA. 158+56.21 RT TO STA. 161+67.50 RT



TYPICAL SECTION 'H': GUARDRAIL PAVING

STA. 162+02.56 RT TO STA. 163+23 RT

* FROM STA. 163+23 RT TO STA. 163+33 RT TRANSITION GRAVEL SHOULDER FROM 3' TO 0'.

STA. 162+21 LT TO STA. 163+23 LT

* FROM STA. 163+23 LT TO STA. 163+33 LT TRANSITION GRAVEL SHOULDER FROM 1' TO 0'.

NOTES:

1. INSTALL GUARDRAIL AT 29" HEIGHT. ALL OTHER GUARDRAIL COMPONENTS AND INSTALLATION PER STANDARD DRAWINGS.
2. GUARDRAIL PAVING INCLUDES END TERMINAL AND FLARE FOR END TERMINAL WIDENING, PER STANDARD DRAWING G-20.11. WIDEN SHOULDER PAVING AS REQUIRED TO ACCOMMODATE FLARE SECTION.

LEGEND

1. EXISTING GROUND - VARIES
2. 2 1/2" ASPHALT CONCRETE, TYPE II, TYPE B
3. 6" CRUSHED ASPHALT BASE COURSE
4. 4" AGGREGATE BASE COURSE, GRADING D-1
5. 6" MIN. AGGREGATE BASE COURSE, GRADING D-1
6. 24" MIN. USEABLE ROCK EXCAVATION MEETING THE REQUIREMENTS OF SELECTED MATERIAL, TYPE A OR BORROW, TYPE A.
7. USABLE EXCAVATION MEETING THE REQUIREMENTS FOR SELECTED MATERIAL, TYPE C

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN
DESIGNED BY: C. IVANISZEK
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY IMPROVEMENT
PROJECT #69331

TYPICAL SECTIONS

PATH: Q:\JNU\69331\PLANSET\69331_B1-B3_TYP.DWG
TAB: B3 Tuesday, April 30, 2013 2:28:08 PM GRANTHAM, RICK L (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	B3	31

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
201 (3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202 (2)	REMOVAL OF PAVEMENT	SQUARE YARD	~~680~~ 539
202 (4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	408
203 (2)	ROCK EXCAVATION	CUBIC YARD	~~1,070~~ 1076.57
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	~~4,620~~ 7561.00
203 (6A)	BORROW, TYPE A	TON	~~5,014~~ 9616.29
~~203 (10)~~	~~CONTROLLED BLASTING~~	~~SQUARE YARD~~	~~347~~ 0
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	TON	~~1,230~~ 3234.72
308 (1)	CRUSHED ASPHALT BASE COURSE	SQUARE YARD	5,870
308 (2)	CSS-1 ASPHALT FOR BASE COURSE	TON	~~60~~ 61.10
308 (3)	PORTLAND CEMENT	TON	~~20~~ 19.53
~~308 (4)~~	~~AGGREGATE FOR CRUSHED ASPHALT BASE COURSE~~	~~TON~~	~~713~~ 0
401 (1)	ASPHALT CONCRETE, TYPE II, CLASS B	TON	~~950~~ 1,911.74
401 (2)	ASPHALT CEMENT, GRADE PG 58-28	TON	~~57~~ 51.61
530 (1)	GRAVITY BLOCK WALL	SQUARE FOOT	~~2,588~~ 2315.93
603 (21)-18	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	33.3
603 (21)-24	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~312~~ 354
606 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	~~462~~ 500
606 (6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	~~456~~ 511
606 (13)	PARALLEL GUARDRAIL TERMINAL	EACH	2
611 (1)	RIPRAP CLASS I	CUBIC YARD	~~58~~ 20.78
615 (1)	STANDARD SIGN	SQUARE FOOT	~~43~~ 42
618 (1)	SEEDING	POUND	~~50~~ 100
633 (2)	SEDIMENT BARRIER	LINEAR FOOT	~~1,860~~ 1410
639 (3)	DRIVEWAY	EACH	4
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (5)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED
641 (6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
641 (8)	ROCK CHECK DAM	EACH	~~13~~ 6
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (4)	SET PRIMARY MONUMENT	EACH	~~5~~ 2
642 (6)	REPLACE EXISTING WITH PRIMARY MONUMENT	EACH	~~5~~ 2
642 (9)	REFERENCE EXISTING MONUMENT	EACH	~~5~~ 2
642 (10)	MONUMENT CASE	EACH	~~5~~ 2
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
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
646 (1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
670 (1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
670 (8)	RECESSED PAVEMENT MARKER	EACH	~~31~~ 43
606(12)	GUARDRAIL BRIDGE CONNECTIONS, CO 1	EACH	2

BASIS OF ESTIMATE

ITEM NO.	ITEM	ESTIMATING FACTOR
201 (3B)	CLEARING AND GRUBBING	1.5 ACRES
203 (6A)	BORROW, TYPE A	1.85 TON/C.Y.
308 (2)	CSS-1 ASPHALT FOR BASE COURSE	2.6 GAL/S.Y.; 243 GAL/TON
308 (3)	PORTLAND CEMENT	6.8 LBS/S.Y.
308 (4)	AGGREGATE FOR CABC	2 TON/100 S.Y. CABC & 1.95 TON/C.Y. AND 6" DEPTH FOR SHOULDER WIDENING
401 (1)	ASPHALT CONCRETE, TYPE II; CLASS B	117 LBS./S.Y./IN.
401 (2)	ASPHALT CEMENT, GRADE PG-58-28	6.0% OF ITEM 401(1)
618 (1)	SEEDING	50 LBS/ACRE

ESTIMATE OF QUANTITIES BREAKDOWN- EARTHWORK

ITEM NO.	ITEM	PAY UNIT	QUANTITY
203 (2)	ROCK EXCAVATION		
	ROCK	CUBIC YARD	1,070
	15% SWELL FACTOR	CUBIC YARD	160
	TOTAL USABLE ROCK EXCAVATION (FOR SELECTED MATERIAL, TYPE A)	**CUBIC YARD**	**1,230**
203 (3)	UNCLASSIFIED EXCAVATION		
	SOIL	CUBIC YARD	4,620
	WASTE (ASSUMED 15%)	CUBIC YARD	693
	***TOTAL USABLE SOIL EXCAVATION (FOR SELECTED MATERIAL, TYPE C)**	**CUBIC YARD**	**3,927**
203 (6A)	BORROW, TYPE A		
	SELECTED MATERIAL, TYPE A REQUIRED	CUBIC YARD	3,940
	USEABLE ROCK EXCAVATION	CUBIC YARD	1,230
	TOTAL ESTIMATED BORROW =	**2710 CY * 1.85**	**5014 TONS**
	WASTE MATERIAL		
	SELECTED MATERIAL, TYPE C REQUIRED	CUBIC YARD	1,080
	USEABLE SOIL EXCAVATION	CUBIC YARD	3,927
	TOTAL ESTIMATED WASTE =	**CUBIC YARD**	**2,847**

* USEABLE SOIL EXCAVATION MAY BE USED AS SELECTED MATERIAL, TYPE A IF IT MEETS THE REQUIREMENTS OF SUBSECTION 703-2.07 FOR SELECTED MATERIAL, TYPE A.

UTILITY COMPANY POINTS OF CONTACT
"CALL BEFORE YOU DIG 586-1333"

ELECTRIC	ALASKA ELECTRIC LIGHT & POWER CO. (AEL&P)	DARRELL WETHERALL	463-6316
TELEPHONE	ALASKA COMMUNICATION SYSTEMS (ACS)	MONTY WILLIAMS	463-8987
WATER/SEWER	CITY AND BOROUGH OF JUNEAU	JOHN NELSON	586-0896
CABLE	GCI	RANDY LAIRD	230-1182

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 _____ Date 4/5/14

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
49th
Keith D. Karpstein
CE-12904
REGISTERED PROFESSIONAL ENGINEER
5/8/13

DESIGNED BY: C. IVANISZEK
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY
IMPROVEMENT
PROJECT #69331

ESTIMATE OF QUANTITIES

PATH: Q:\JNU\69331\PLANSET\69331_C1_ESTIMATE.DWG
TAB: C1 Wednesday, May 08, 2013 1:22:57 PM GEARY, NATE (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	C1	31

202(2) REMOVAL OF PAVEMENT

BEGIN STATION (FT)	END STATION (FT)	OFFSET	AREA (SY)	REMARKS
152+71.39	154+06.92	RT	386	Thane Ore House driveway
161+41.72	162+28.02	RT	131	Pullout
161+54.38	162+15.45	LT	82	Driveway
		TOTAL =	599	

202(4) CULVERT REMOVAL

STATION	TYPE	DIAMTER (in)	LENGTH (ft)	REMARKS
148+05	CSP	24	44	cross culvert - do not replace
149+29	CSP	24	46	cross culvert
150+13	CSP	24	41	cross culvert - do not replace
152+39	CSP	24	53	cross culvert
153+27.50	CSP	24	46	ABANDONED IN PLACE cross culvert - do not replace filled w/flowable Material
155+98	CSP	24	45	cross culvert
157+57	CSP	24	69	cross culvert
159+98	CSP	24	64	cross culvert
		Total =	408	

503(1) GRAVITY BLOCK WALL

BEGIN STATION	END STATION	OFFSET (ft)	AREA (ft2)	REMARKS
~~148+11~~ 147+96	149+34	28.25 LT	1110	
149+43	150+20.50	28.25 LT	503	
~~155+50~~	~~156+40.50~~	~~28.25 LT~~	~~975~~	DELETED
		Total =	~~2588~~	

603 PIPE SUMMARY

PIPE NUMBER	603(21)-18 18" CPP	603(21)-24 24" CPP	INLET STATION	INLET OFFSET	INLET INV.	OUTLET STATION	OUTLET OFFSET	OUTLET INV.	SLOPE	REMARKS
P-1		~~57~~ 70	149+38.12	26 LT	61.69	149+18.71	27 RT	59.88	3.20%	Cross Culvert
P-2		~~55~~ 80	152+36.03	26.12 LT	50.13	152+43.97	27.39 RT	47.73	4.44%	Cross Culvert
P-3		~~53~~ 60	155+96.13	25.91 LT	29.42	156+00.47	26.79 RT	28.54	1.66%	Cross Culvert
P-4		66	157+56.86	28.29 LT	24.25	157+58.33	37.15 RT	23.39	1.31%	Cross Culvert
P-5		~~81~~ 80	159+96.14	29.84 LT	22.30	160+01.15	51.24 RT	21.40	1.11%	Cross Culvert
P-6	33.3		160+80.74	27.20 LT	24.76	160+46.73	28.02 LT	22.98	5.45%	Driveway Culvert
TOTAL	33.3	~~312~~ 354								

606(1) W-BEAM GUARDRAIL

STATION TO STATION		OFFSET	RUN	REMARKS
158+56 ~~159+06.25~~	161+67	RT	~~272~~ 312.5	
162+02.50	~~163+22.70~~ 34	RT	~~128~~ 112.5	
162+21 ~~162+70.95~~	~~163+22.70~~ 34	LT	~~52~~ 75.0	
		TOTAL =	~~452~~ 500	

606(6) REMOVING AND DISPOSING OF GUARDRAIL

STATION TO STATION		OFFSET	RUN	REMARKS
158+68	~~161+63~~ 82	RT	~~306~~ 314	
162+08	163+34	RT	~~136~~ 145	
162+81	163+34	LT	~~59~~ 52	
		TOTAL =	~~501~~ 511	

606(13) PARALLEL GUARDRAIL TERMINAL

STATION	OFFSET	LENGTH	REMARKS
158+56.2	RT	50.0	
162+20.9	LT	50.0	

639(3) DRIVEWAY

STATION	OFFSET	WIDTH (ft)	LENGTH (ft)	RADIUS RT	RADIUS LT	REMARKS
153+38	RT	14	100	17	80	Thane Ore House - see sheet G1
160+62	LT	24	10	10	10	
161+85	RT	37	22	20	20	
161+98	LT	22	20	15	40	

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 _____ Date 2/5/14

CHECKED BY: K. KARPSTEIN
DESIGNED BY: C. IVANISZEK
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
Kevin D. Karpstein
CE-12904
REGISTERED PROFESSIONAL ENGINEER
5/8/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY IMPROVEMENT
PROJECT #69331

SUMMARIES

PATH: Q:\JNU\69331\PLANSET\69331_D1_SUMS.DWG
TAB: D1 Tuesday, April 30, 2013 12:58:39 PM GRANTHAM, RICK L (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	D1	31

615(1) STANDARD SIGN SUMMARY

SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SF)	POST	EMBEDDED DEPTH	SIGN FACING	COMMENTS
1	NO PARKING	153+59	RT	R7S-	18	24	3.00	2.5 PST	4'-6"	NW	
2	NO PARKING	154+01	RT	R7S-	18	24	3.00	2.5 PST	4'-6"	NE	
3	CITY ORDANCE SIGN	155+15	RT	CUSTOM	20	30	4.00	2.5 PST	4'-6"	N	
4	CITY ORDANCE SIGN	155+97	RT	CUSTOM	20	30	4.00	2.5 PST	4'-6"	N	
5	CITY ORDANCE SIGN	156+99	RT	CUSTOM	20	30	4.00	2.5 PST	4'-6"	N	
6	ADOPT A HIGHWAY	162+25	LT	I-150	30	24	5.00	2.5 PST	4'-6"	E	
7	JUNEAU LIONS CLUB	162+25	LT	I-150	30	12	2.50	-	-	E	MOUNT BELOW SIGN #14
8	SHEEP CREEK	162+97	RT	I-3	~~60~~ 54	24	~~10.00~~ 9.0	(2)2.5 PST	4'-6"	W	
9	NO STOPPING ON BRIDGE	163+12	RT	R7P-	12	18	1.50	2.5 PST	4'-6"	N	
10	OBJECT MARKER	163+32	LT	OM-3L	12	36	3.00	2.5 PST	4'-6"	W	MOUNTED ON BRIDGE RAIL
11	OBJECT MARKER	163+34	RT	OM-3R	12	36	3.00	2.5 PST	4'-6"	W	MOUNTED ON BRIDGE RAIL
						TOTAL =	~~43.00~~ 42.0				

EXISTING SIGNS TO BE REMOVED

STATION	OFFSET	SIGN	REMARKS
148+42.55	RT	ADVISORY SPEED PLATE	Remove and do not replace sign
150+56.10	LT	CHEVRON >	Remove and do not replace sign
150+98.41	LT	CHEVRON >	Remove and do not replace sign
151+37.14	LT	CHEVRON >	Remove and do not replace sign
151+78.04	LT	CHEVRON >	Remove and do not replace sign
155+72.35	LT	ADVISORY SPEED PLATE	Remove and do not replace sign
157+31.54	RT	ADVISORY SPEED PLATE	Remove and do not replace sign
162+95.81	LT	ADVISORY SPEED PLATE	Remove and do not replace sign

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/5/14

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

STATE OF ALASKA
1911
David Bruce Epstein
CE-6866
REGISTERED PROFESSIONAL ENGINEER
2.8.13

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

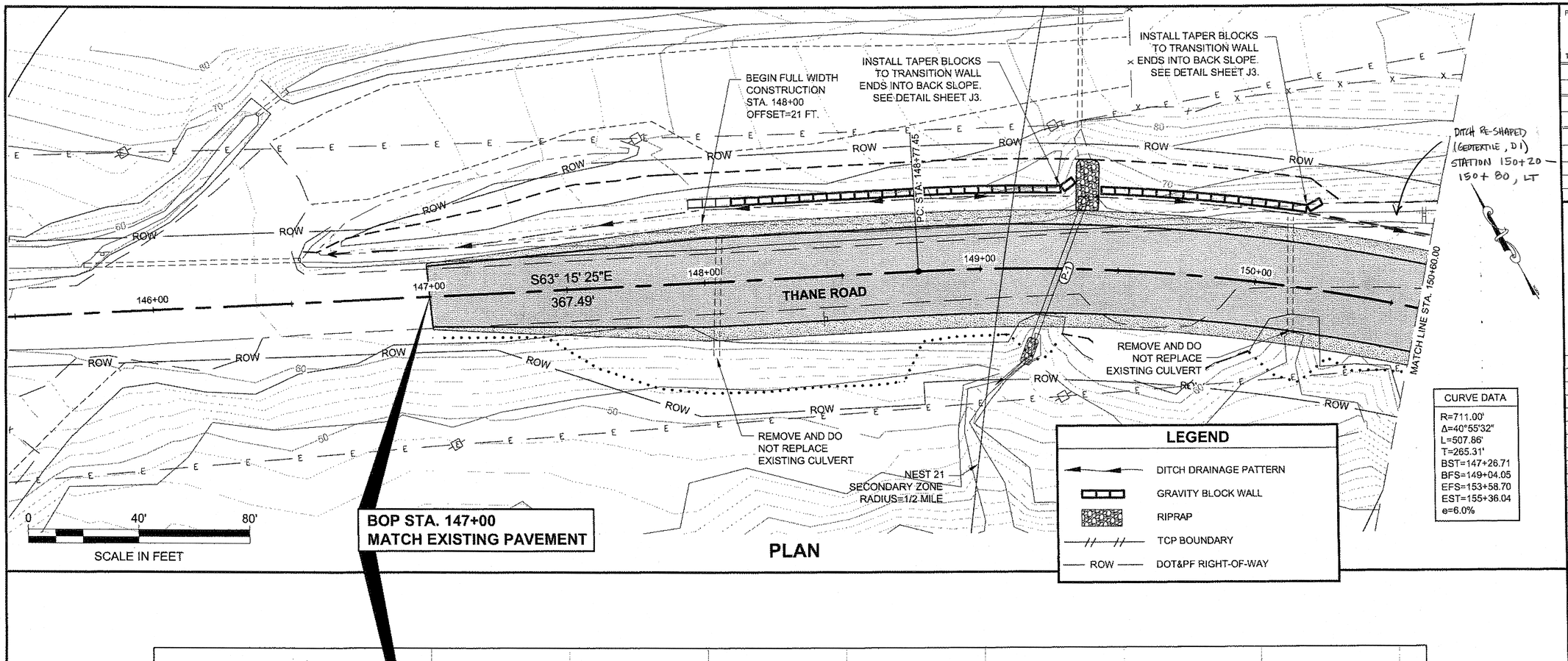
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY IMPROVEMENT
PROJECT #69331

SUMMARIES

PATH: Q:\JNU\69331\PLANSET\69331_D2 SIGNS.DWG
TAB: D2 Tuesday, April 30, 2013 12:59:04 PM GRANTHAM, RICK L (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	D2	31



PATH: Q:\JNU\69331\PLANSET\69331_F1-F4 P&P.DWG

GRANTHAM, RICK L (DOT)

TAB: F1 Tuesday, April 30, 2013 2:31:09 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA — Keith D. Karpstein — CE-12904 — 49th — REGISTERED PROFESSIONAL ENGINEER — 5/8/13

DESIGNED BY: C. IVANISZEK

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

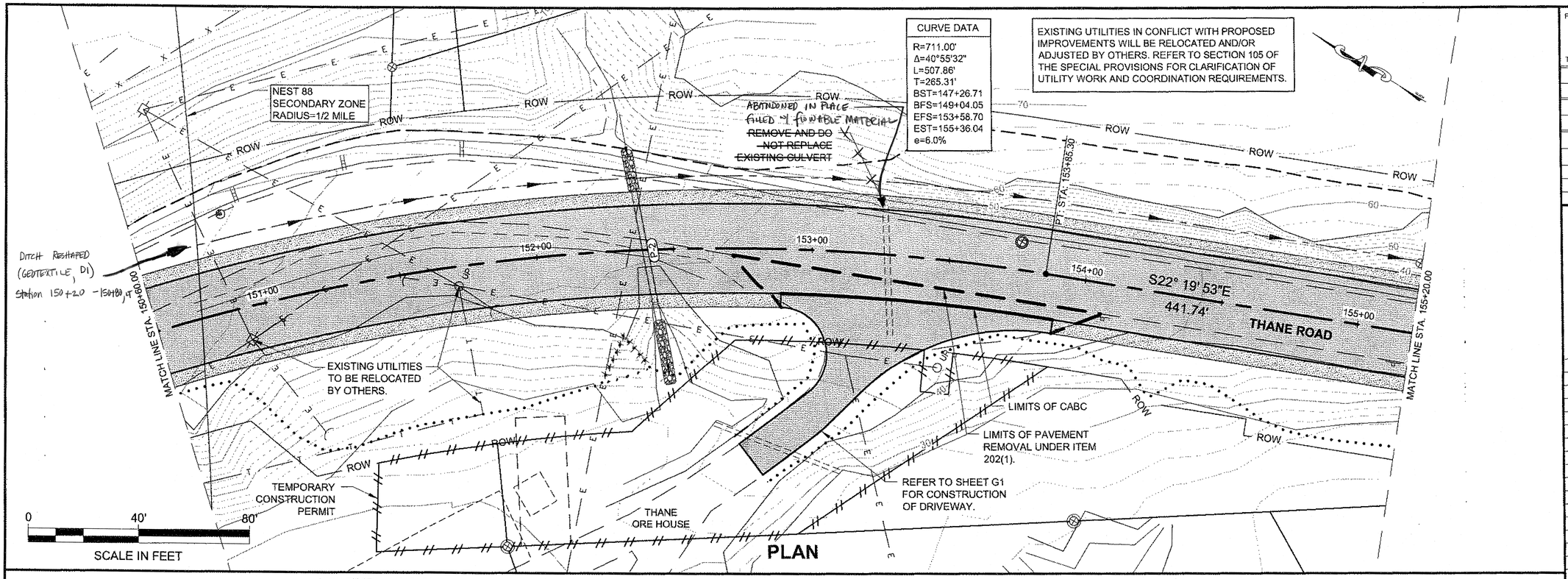
PLAN & PROFILE

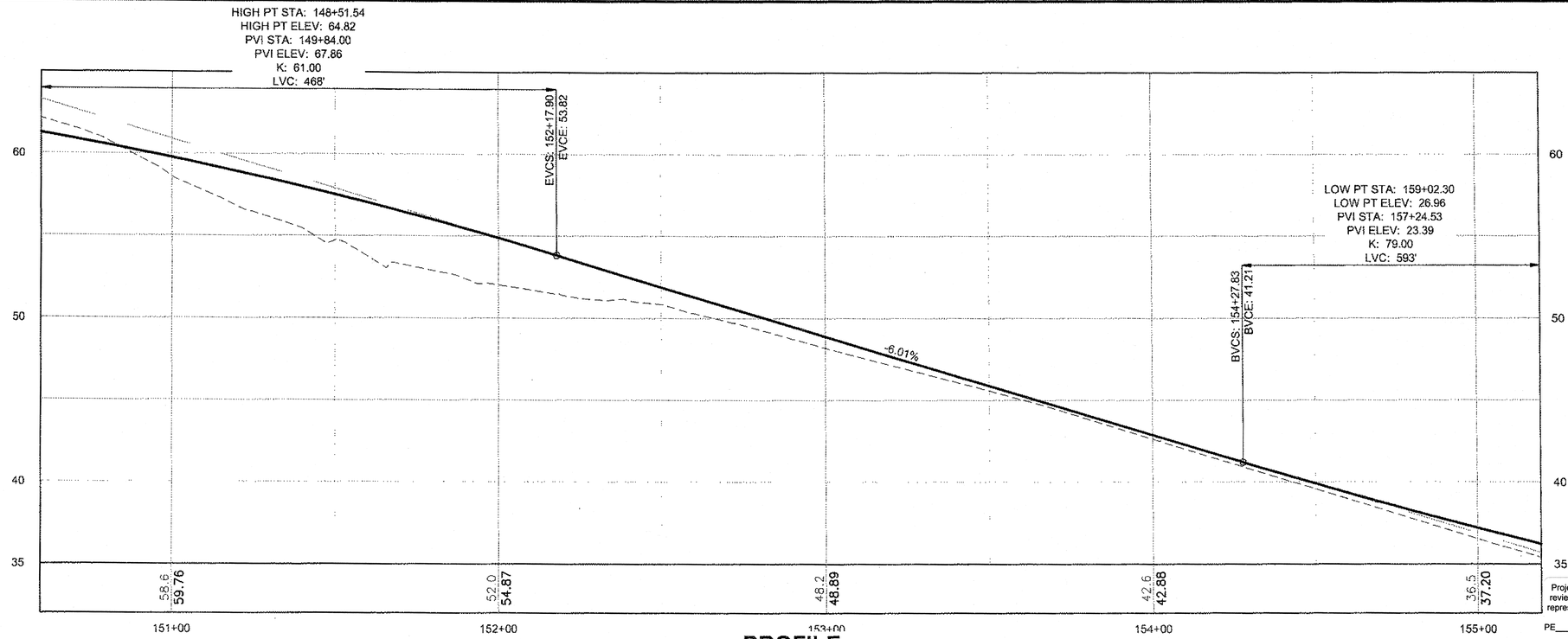
PROJECT DESIGNATION

HHE-0963(3)~69331

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F1	31





PATH: Q:\JNU\69331\PLANSET\69331_F1-F4 P&P.DWG

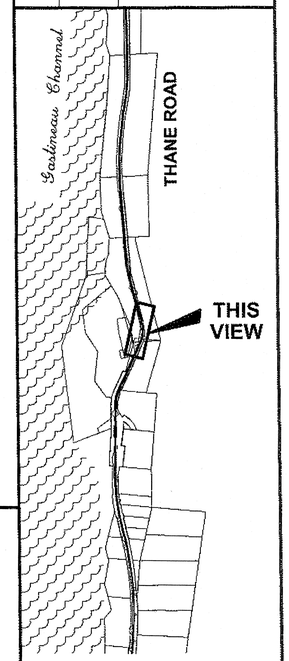
GRANTHAM, RICK L (DOT)
TAB: F2 Tuesday, April 30, 2013 12:59:36 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
49th
Keith D. Karpstein
CE-12904
REGISTERED PROFESSIONAL ENGINEER
5/8/13

DESIGNED BY: C. IVANISZEK

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

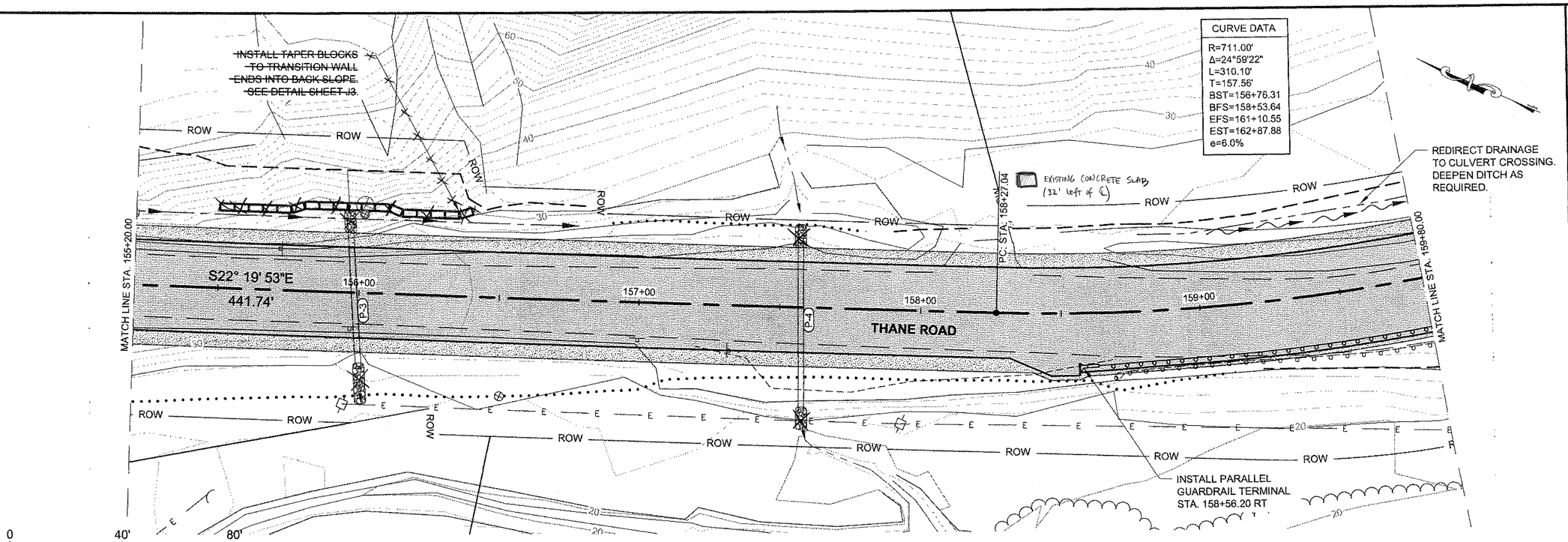
PLAN & PROFILE

PROJECT DESIGNATION
HHE-0963(3)~69331

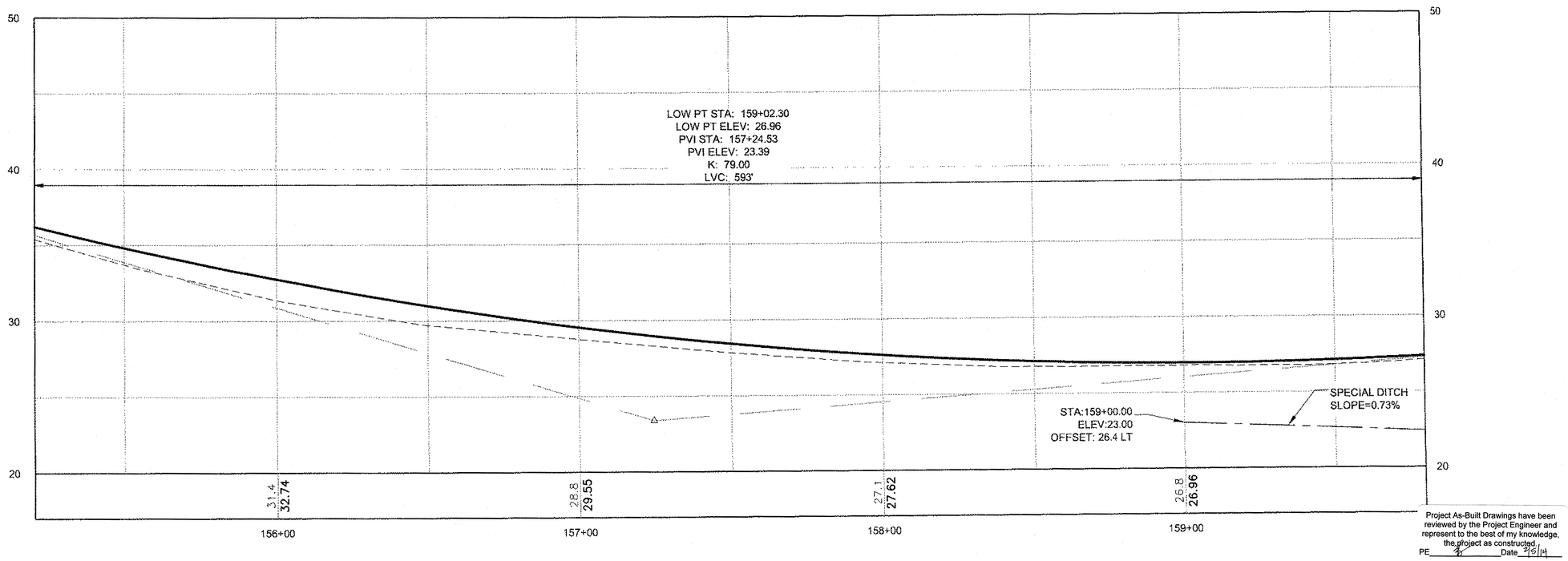
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F2	31

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 2/3/14

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN



PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\JNU\69331\PLANSET\69331_F1-F4 P&P.DWG

GRANTHAM, RICK L (DOT)

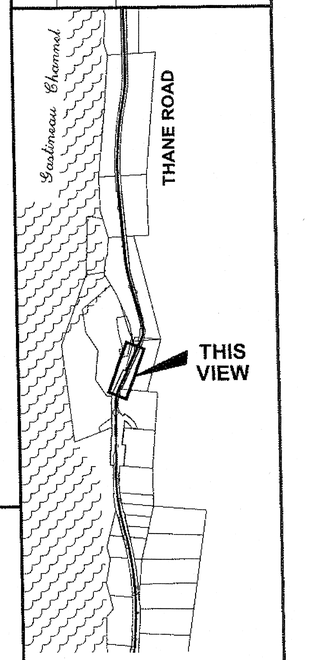
TAB: F3 Tuesday, April 30, 2013 12:59:41 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

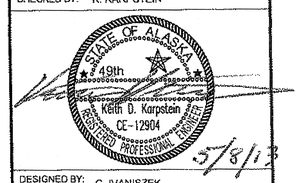
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN



DESIGNED BY: C. IVANISZEK

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

PLAN & PROFILE

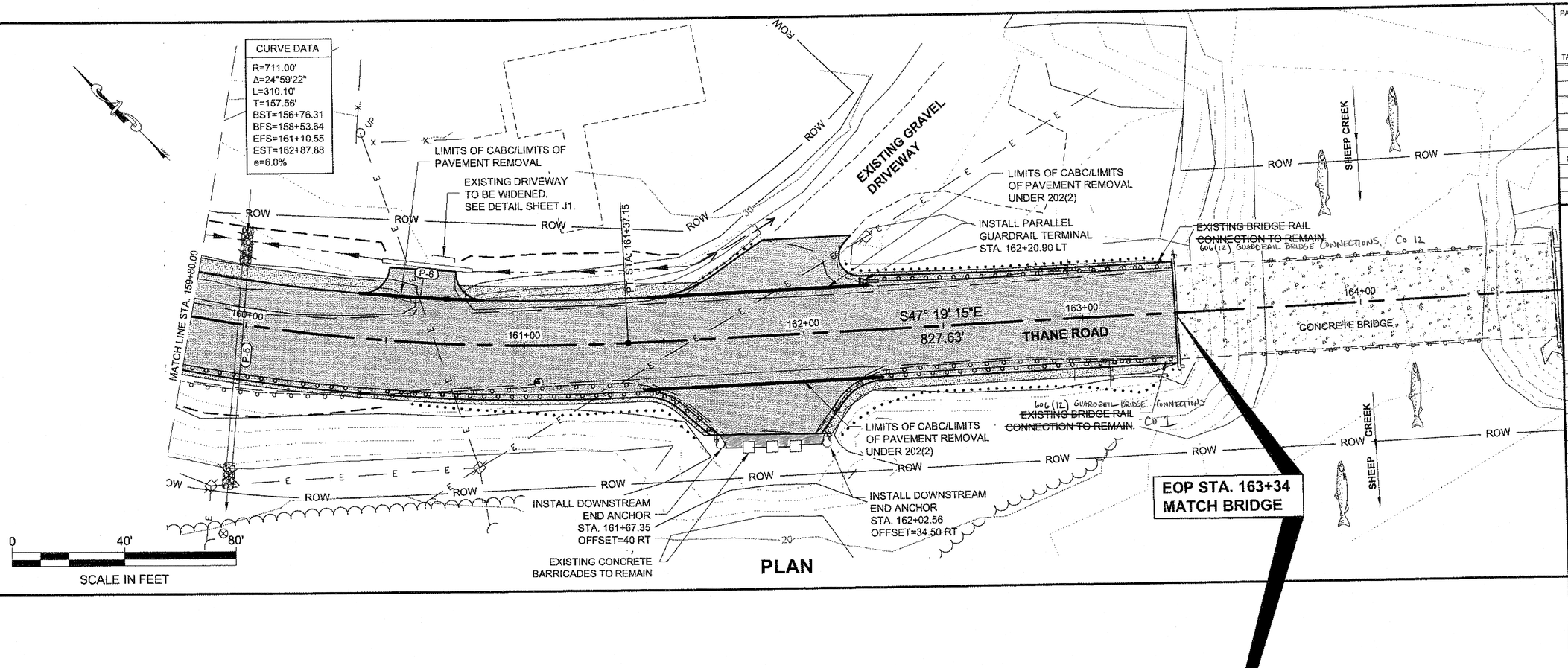
PROJECT DESIGNATION
HHE-0963(3)~69331

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
F3	31

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

PE _____ Date 7/5/14



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 _____ Date 7/5/13

PATH: Q:\JNU\69331\PLANSET\69331_F1-F4 P&P.DWG

GRANTHAM, RICK L (DOT)
TAB: F4 Tuesday, April 30, 2013 1:00:05 PM

ADDENDUM NUMBER

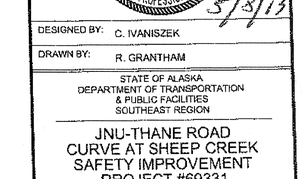
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: K. KARPSTEIN



DESIGNED BY: C. IVANISZEK

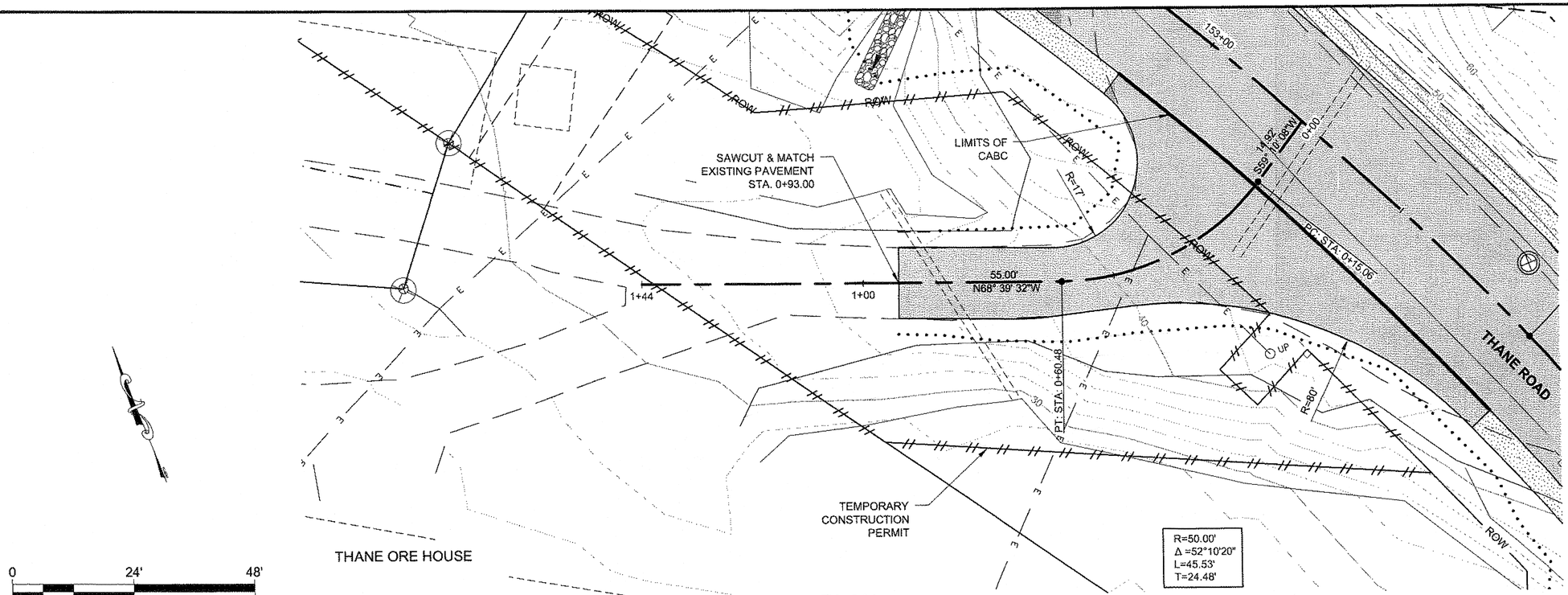
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

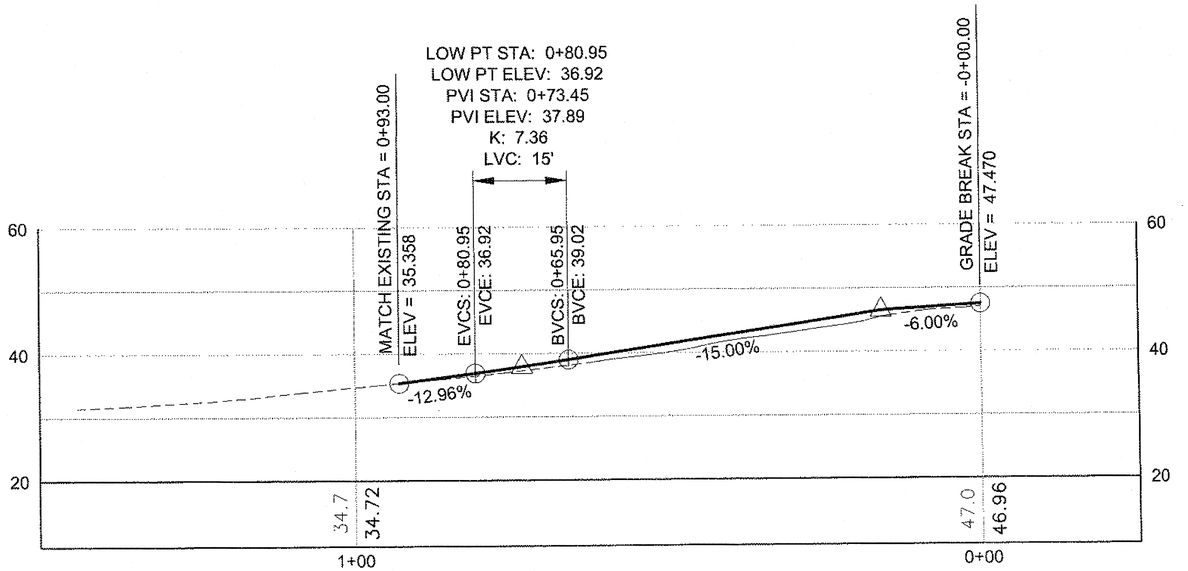
JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

PLAN & PROFILE

PROJECT DESIGNATION	
HHE-0963(3)~69331	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F4	31

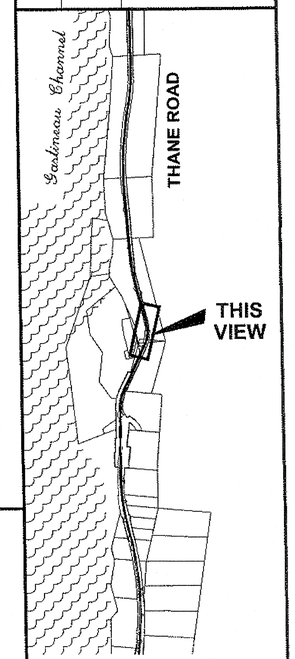


PLAN



PROFILE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN LEGEND

PATH: Q:\JNU\69331\PLANSET\69331_G1_DWY.DWG

GRANTHAM, RICK L (DOT)
TAB: G1 Tuesday, April 30, 2013 2:53:40 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
49th
Keith D. Karpstein
CE-12904
REGISTERED PROFESSIONAL ENGINEER
5/8/13

DESIGNED BY: C. IVANISZEK

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

DRIVEWAY PLAN & PROFILE

PROJECT DESIGNATION
HHE-0963(3)~69331

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
G1	31

PATH: Q:\JNU\69331\PLANSET\69331_H1-H2_SIGN PLANS.DWG

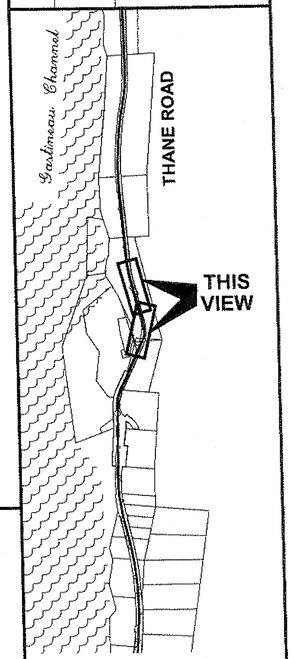
GRANTHAM, RICK L (DOT)
TAB: H1 Tuesday, April 30, 2013 1:00:57 PM

ADDENDUM NUMBER

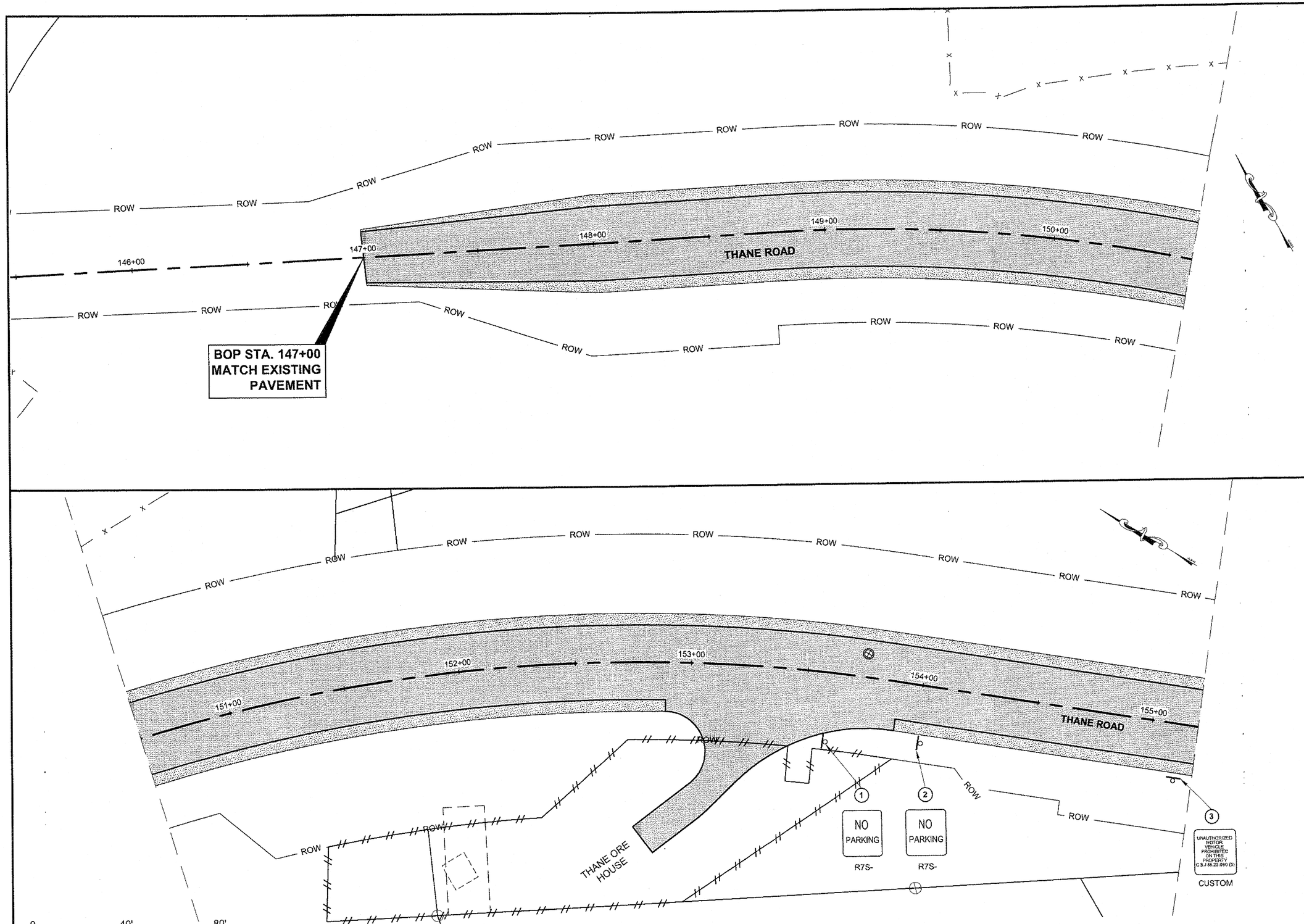
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND



0 40' 80'
SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

STATE OF ALASKA
49th
David Bruce Epstein
CE-6866
REGISTERED PROFESSIONAL ENGINEER
5.8.13

DESIGNED BY: D. EPSTEIN

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

SIGNING PLANS

PROJECT DESIGNATION	
HHE-0963(3)~69331	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H1	31

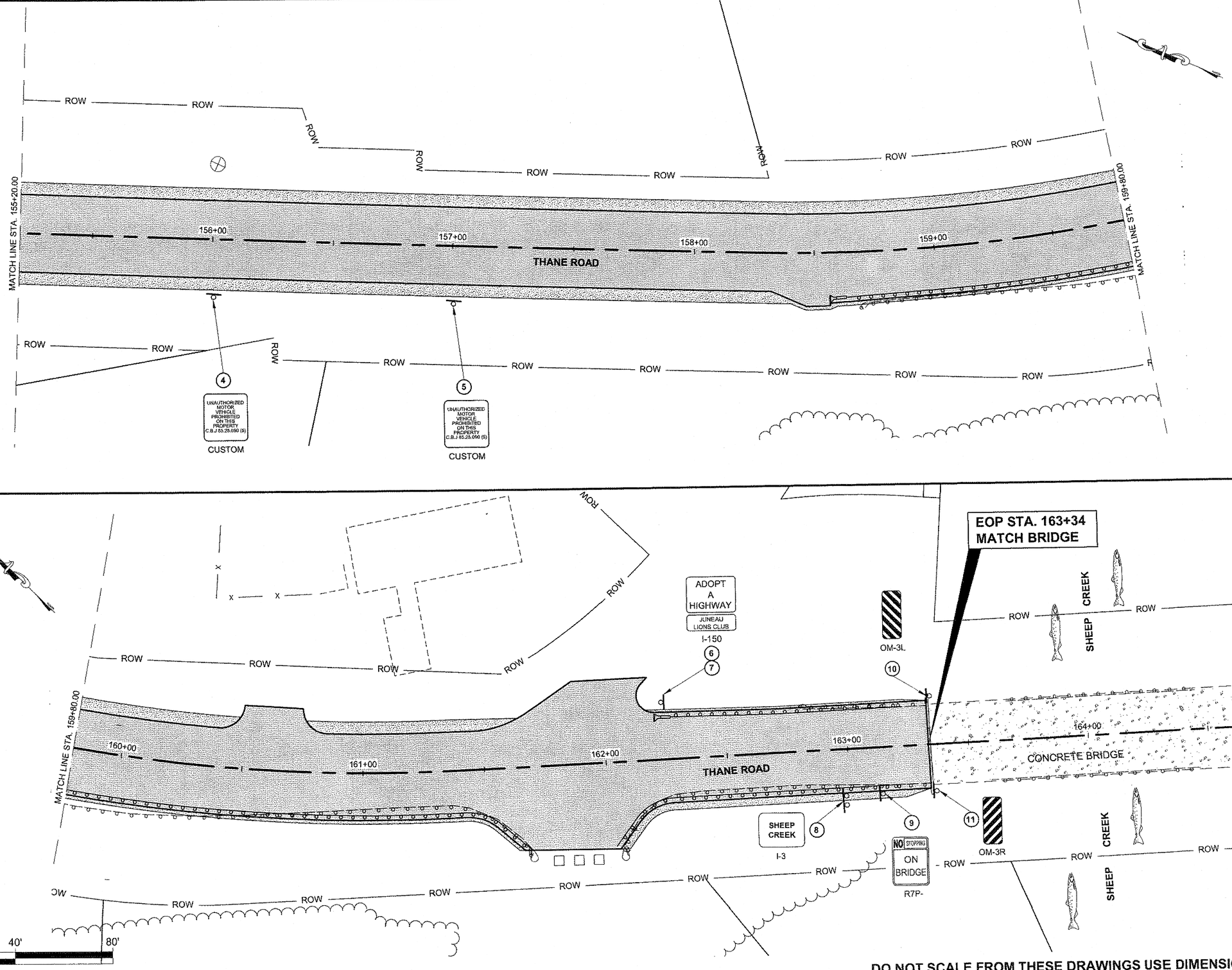
PATH: Q:\JNU\69331\PLANSET\69331_H1-H2_SIGN PLANS.DWG

GRANTHAM, RICK L (DOT)
TAB: H2 Tuesday, April 30, 2013 1:01:02 PM

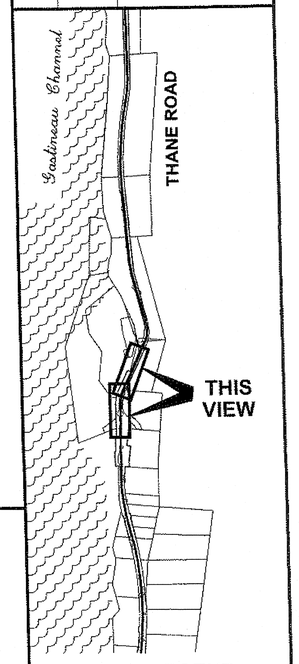
ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN LEGEND

CHECKED BY: D. EPSTEIN

STATE OF ALASKA
49th
David Bruce Epstein
CE-6866
REGISTERED PROFESSIONAL ENGINEER
5.8.13

DESIGNED BY: D. EPSTEIN

DRAWN BY: R. GRANTHAM

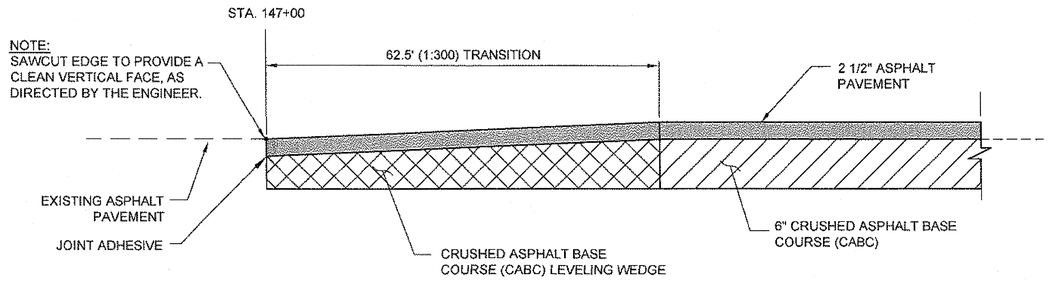
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

SIGNING PLANS

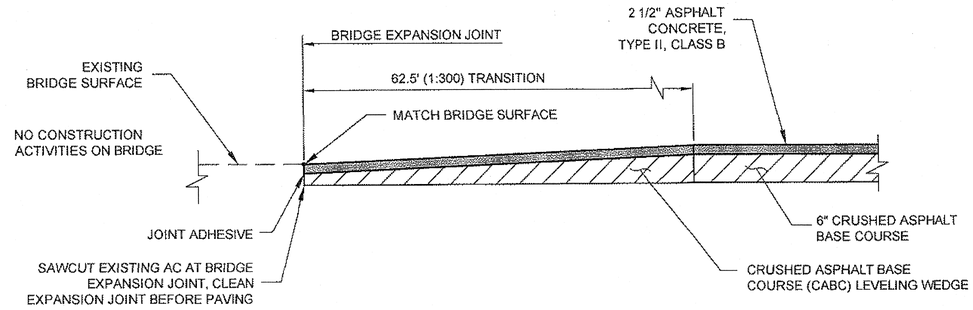
PROJECT DESIGNATION
HHE-0963(3)~69331

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H2	31



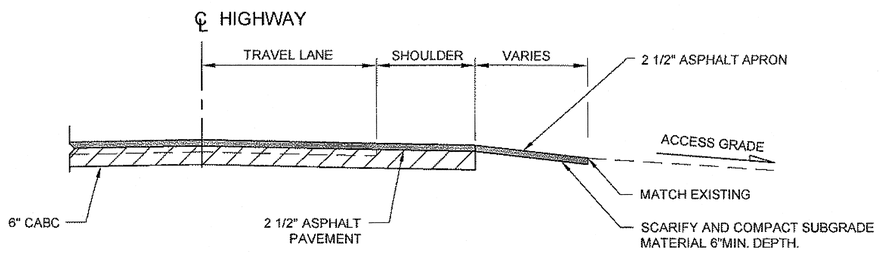
PAVEMENT TRANSITION DETAIL

STA. 147+00



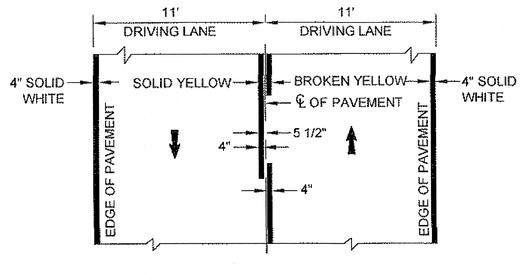
SHEEP CREEK BRIDGE DETAIL

STA. 163+33.46



TYPICAL DRIVEWAY/TURNOUT PROFILE

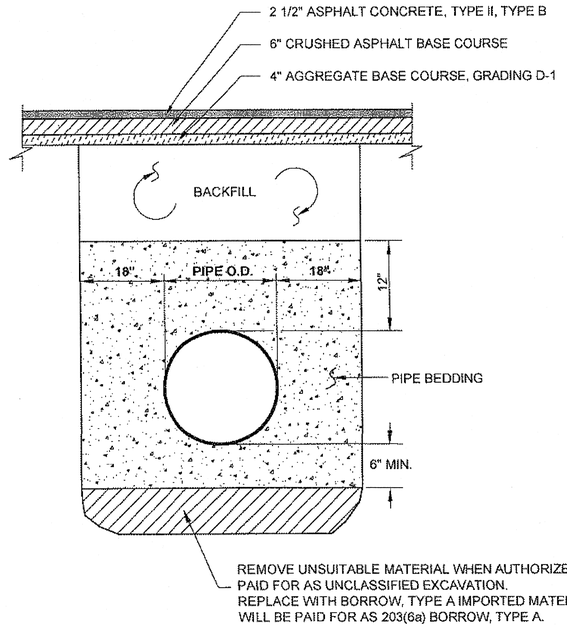
NOTE: SEE SHEET G1 FOR THORN ORE HOUSE DRIVEWAY.



STRIPING NOTE:
PASSING ZONES SHALL BE LOCATED IN FIELD. THE CONTRACTOR SHALL REFERENCE AND STAKE THE LOCATIONS OF PASSING ZONES PER SECTION 670 OF THE STANDARD SPECIFICATIONS.

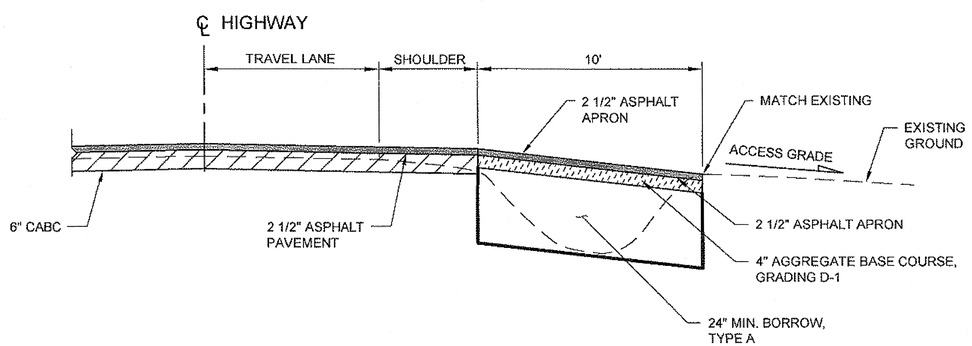
STRIPING DETAIL

NTS



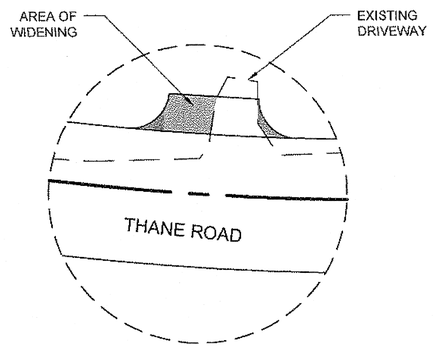
CULVERT BEDDING/BACKFILL DETAIL

NTS



DRIVEWAY WIDENING PROFILE VIEW

STA. 162+62 LT



DRIVEWAY WIDENING PLAN VIEW

STA. 162+62 LT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN
DESIGNED BY: C. IVANISZEK
DRAWN BY: R. GRANTHAM

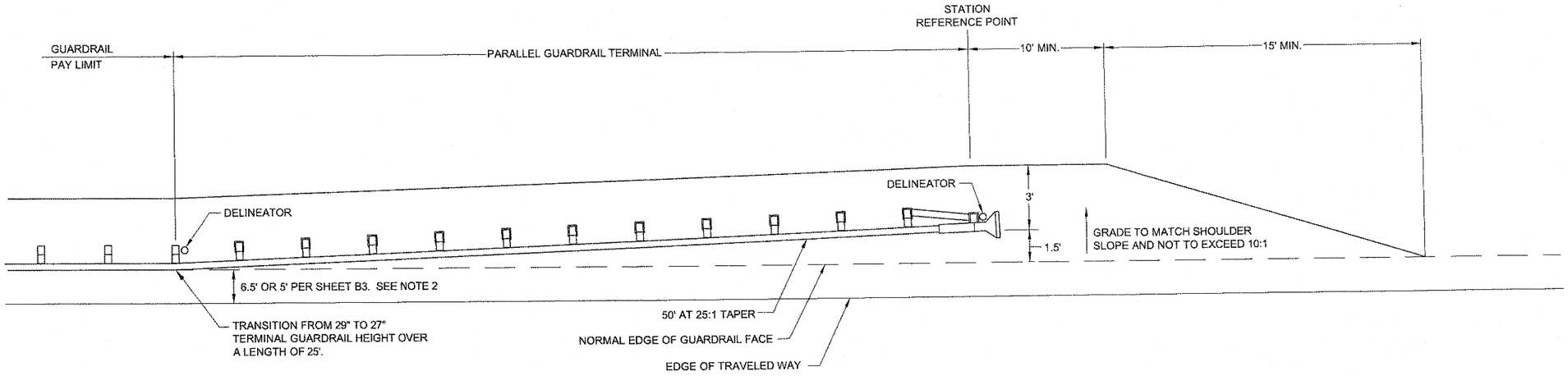
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY IMPROVEMENT
PROJECT #69331

MISCELLANEOUS DETAILS

PATH: Q:\JNU\69331\PLANSET\69331_J1-J3_DETAILS.DWG
TAB: J1 Wednesday, May 15, 2013 1:18:03 PM GRANTHAM, RICK L (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	J1	31

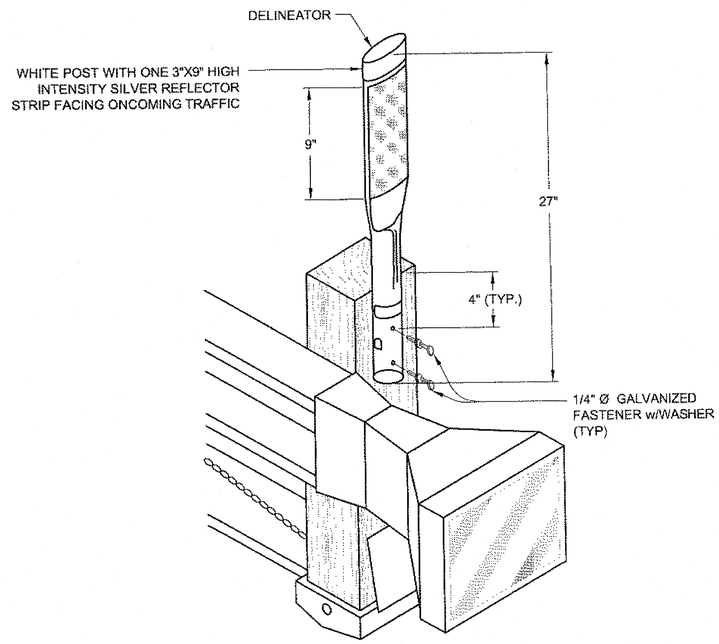


PARALLEL GUARDRAIL TERMINAL INSTALLATION WIDENING DETAILS

NTS

PARALLEL GUARDRAIL TERMINAL NOTES:

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



FLEXIBLE GUARDRAIL DELINEATOR

NTS

DELINEATOR NOTES:

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

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th Martin L. Karpstein CE-12904 REGISTERED PROFESSIONAL ENGINEER

5/8/13

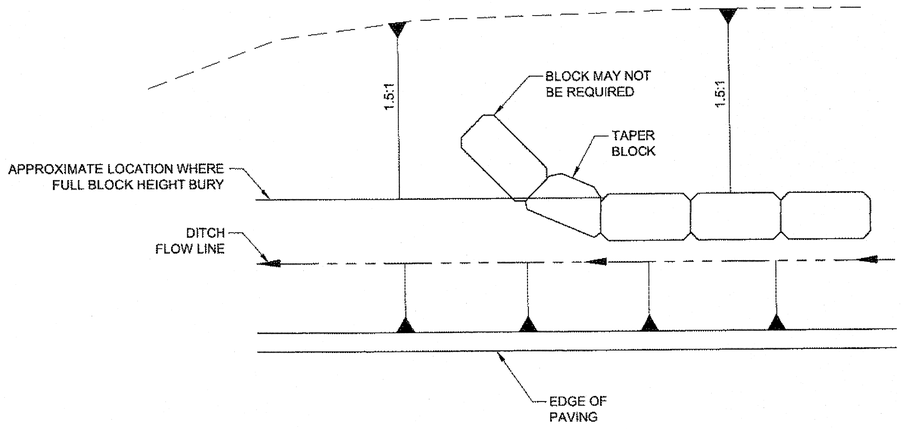
DESIGNED BY: C. IVANISZEK
DRAWN BY: R. GRANTHAM

JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY
IMPROVEMENT
PROJECT #69331

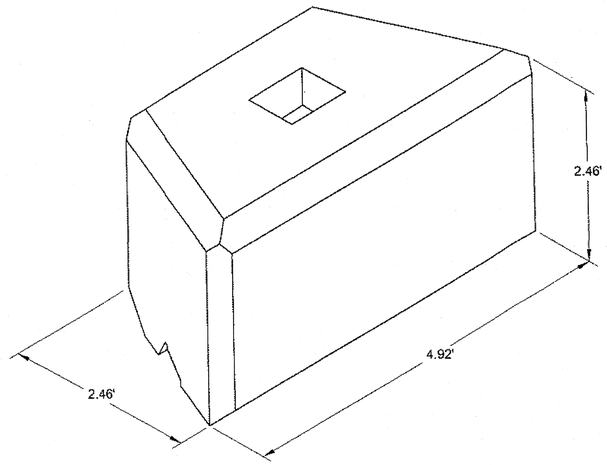
GUARDRAIL DETAILS

PATH: Q:\JNU\69331\PLANSET\69331_J1-J3_DETAILS.DWG
TAB: J2 Tuesday, April 30, 2013 1:01:25 PM GRANTHAM, RICK L (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	J2	31



TAPER BLOCK PLANVIEW
NTS



FULL FLAT TOP TAPER BLOCK DETAIL
NTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
Keith B. Karpstein
CE-12904
REGISTERED PROFESSIONAL ENGINEER
5/8/13

DESIGNED BY: C. IVANISZEK

DRAWN BY: R. GRANTHAM

PATH: Q:\JNU\69331\PLANSET\69331_J1-J3_DETAILS.DWG

TAB: J3 Tuesday, April 30, 2013 1:01:29 PM GRANTHAM, RICK L (DOT)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

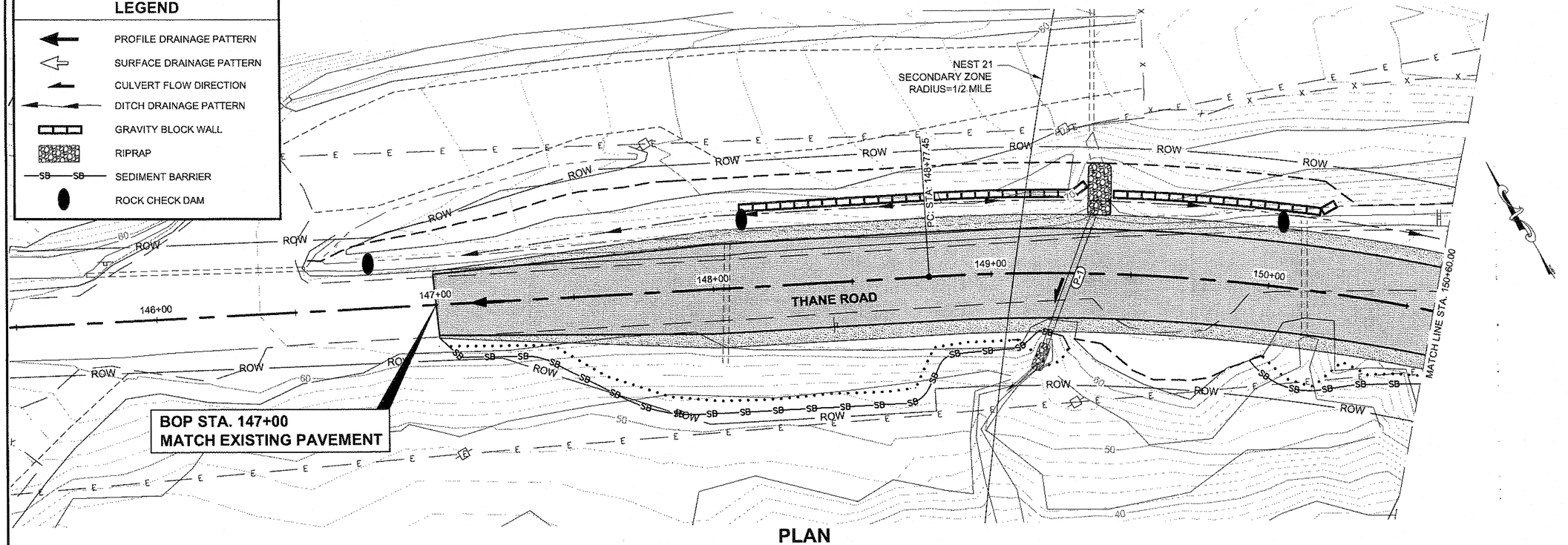
JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY IMPROVEMENT
PROJECT #69331

GRAVITY BLOCK WALL DETAILS

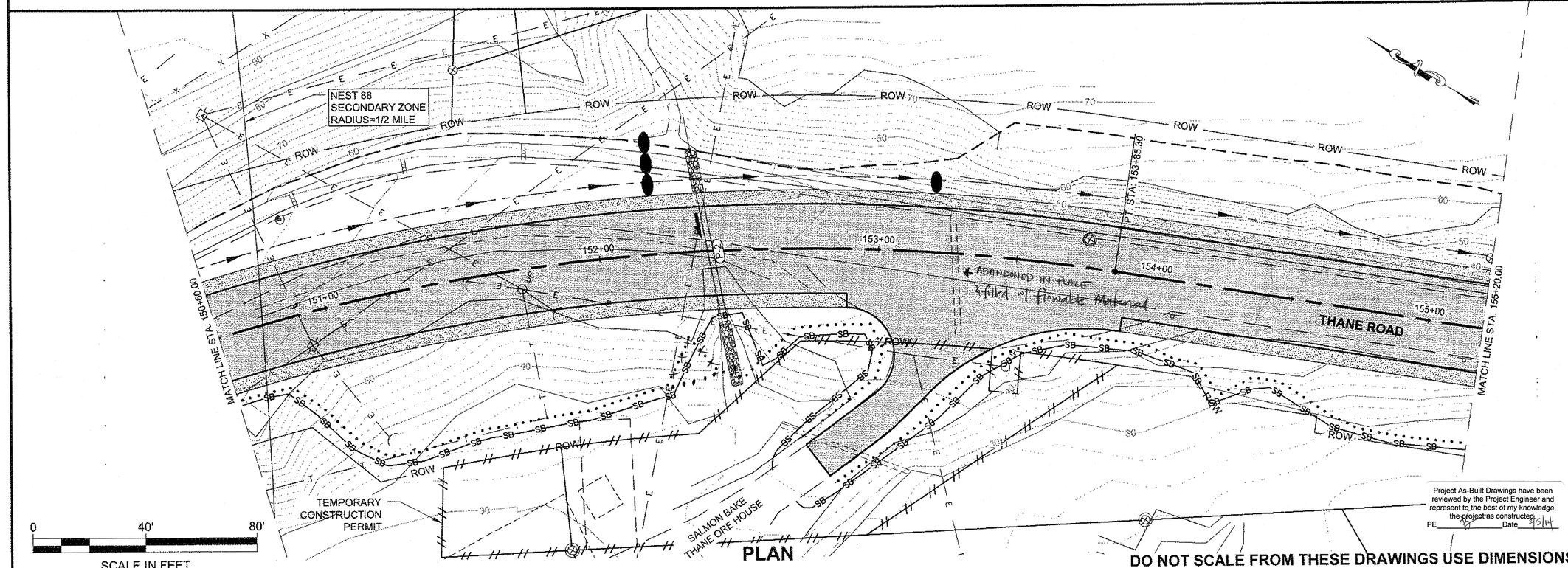
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	J3	31

LEGEND

- PROFILE DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- CULVERT FLOW DIRECTION
- DITCH DRAINAGE PATTERN
- GRAVITY BLOCK WALL
- RIPRAP
- SB SB SEDIMENT BARRIER
- ROCK CHECK DAM



PLAN



PLAN

0 40' 80'

SCALE IN FEET

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 _____ Date 7/5/14

PATH: Q:\JNU\69331\PLANSET\69331_P1-P2 ESCP.DWG

GRANTHAM, RICK L (DOT)

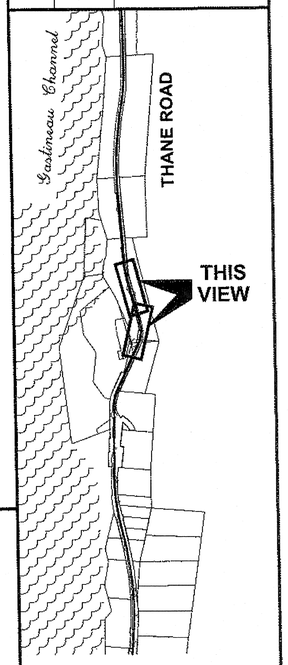
TAB: P1 Tuesday, April 30, 2013 2:40:49 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN

DESIGNED BY: C. IVANISZEK

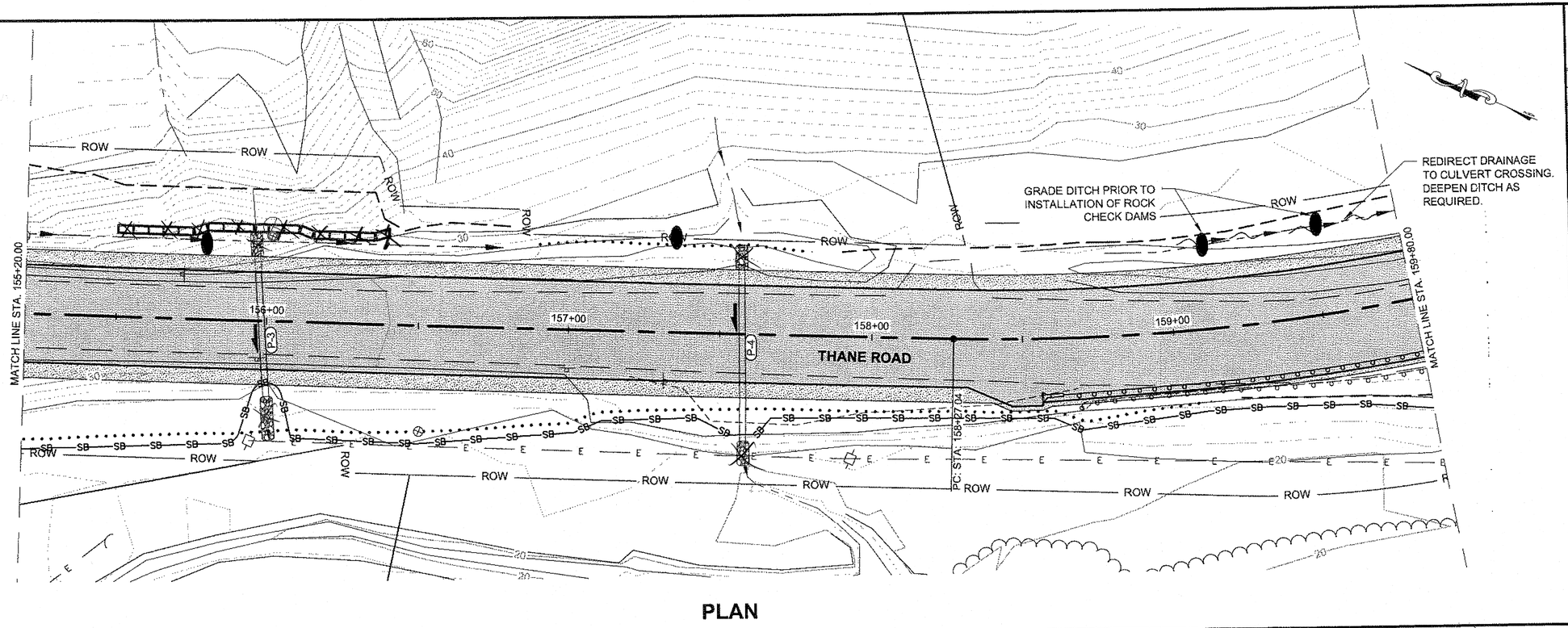
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

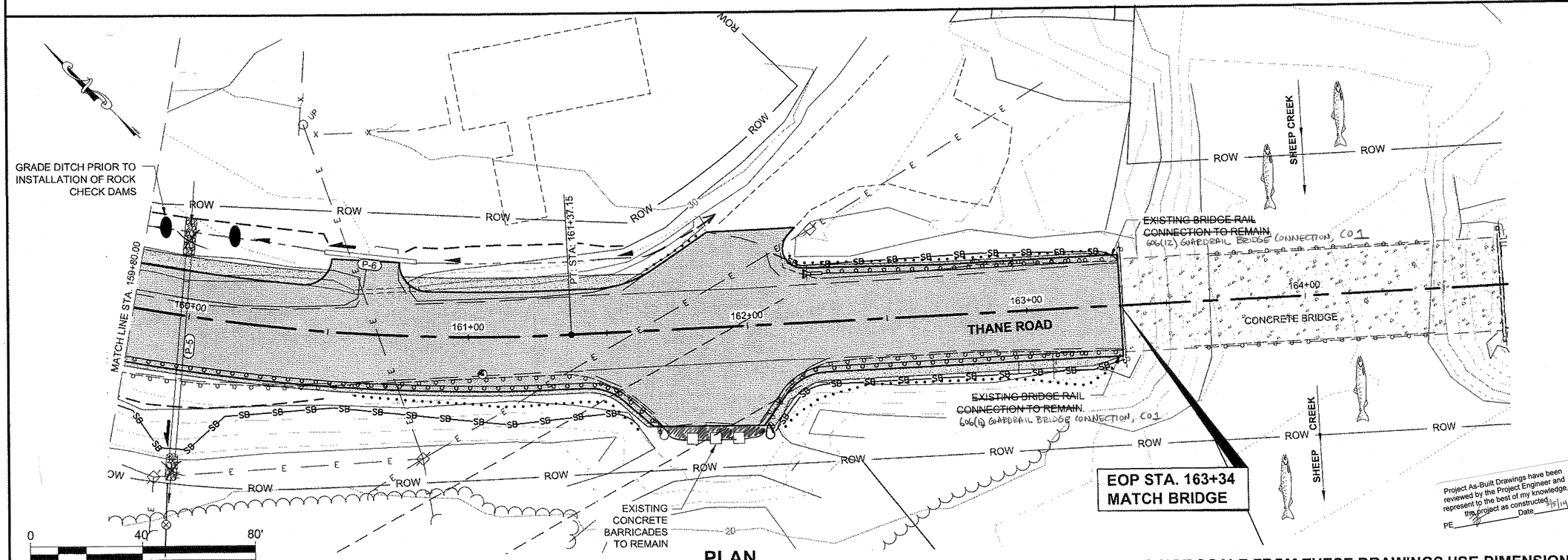
JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION	
HHE-0963(3)~69331	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P1	31



PLAN



PLAN

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 _____ Date 9/5/14

PATH: Q:\JNU\69331\PLANSET\69331_P1-P2 ESCP.DWG

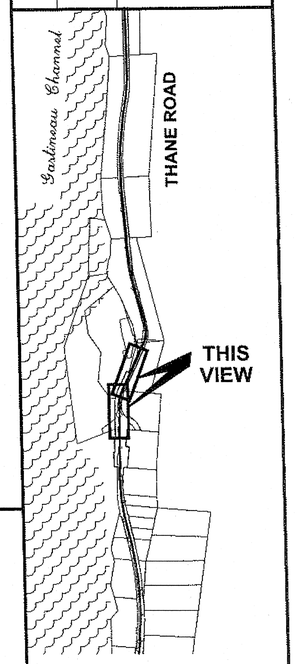
GRANTHAM, RICK L (DOT)
TAB: P2 Tuesday, April 30, 2013 1:01:59 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN

DESIGNED BY: C. IVANISZEK

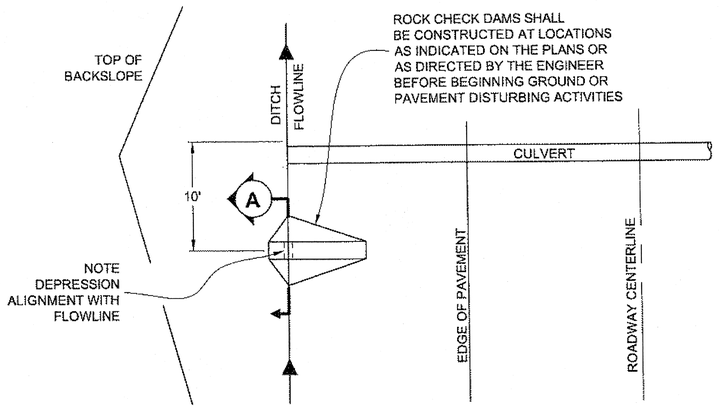
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

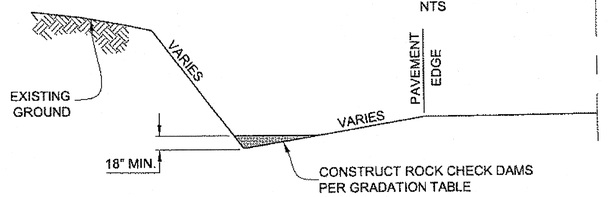
JNU-THANE ROAD
CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT
PROJECT #69331

EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION	
HHE-0963(3)~69331	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P2	31



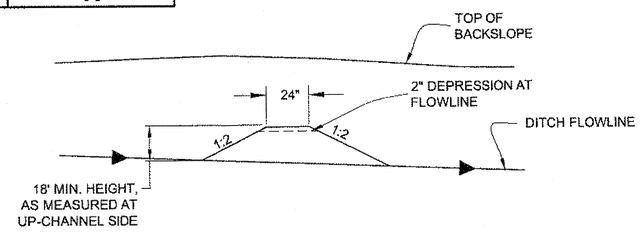
PLAN
NTS



ELEVATION
NTS

ROCK CHECK DAM GRADATION TABLE

SIEVE	% PASSING BY WEIGHT
4"	100
2"	50-75
#4	10-20
#200	0-5

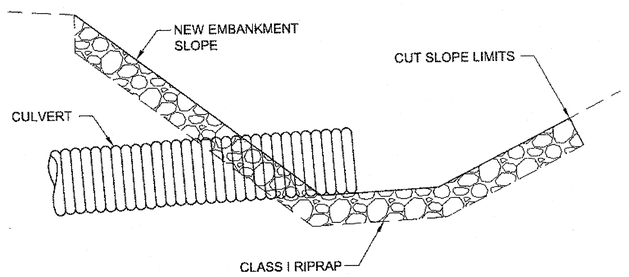


SECTION A-A
NTS

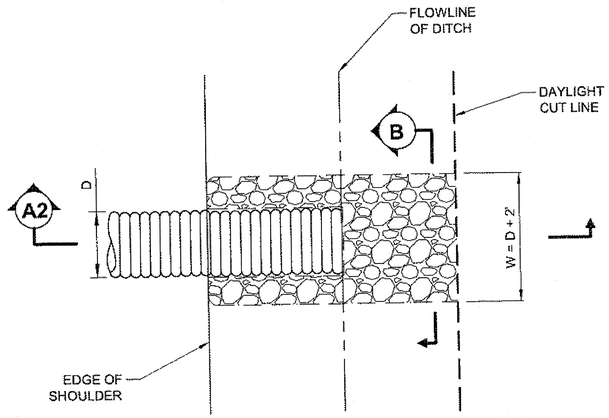
ROCK CHECK DAM DETAILS
NTS

ROCK CHECK DAM NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING GROUND OR PAVEMENT DISTURBING ACTIVITIES.
2. MAINTAIN DEVICES. MONITOR DAILY. EXCAVATE CHECK DAMS WHEN 4" OR MORE SEDIMENT IS PRESENT.
3. IF INSPECTION REVEALS WATER IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. ADDITIONAL CHECK DAMS MAY BE REQUIRED.



SECTION A2-A2
NTS

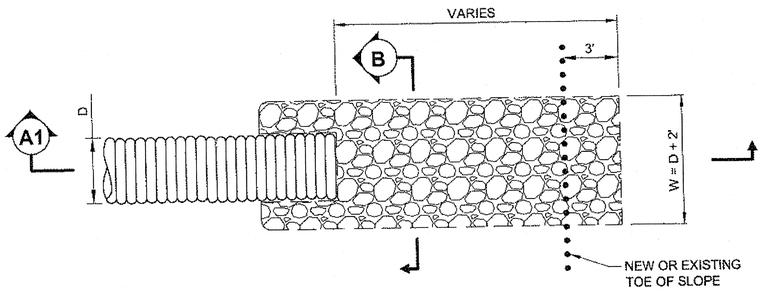


PLAN
NTS

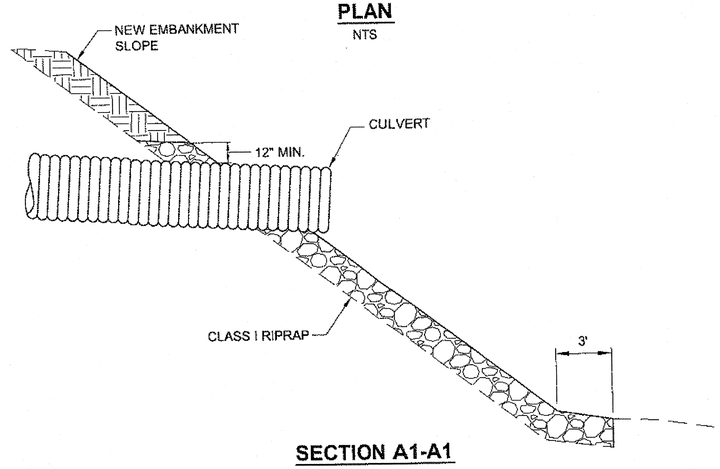
RIPRAP LINED INLET PROTECTION DETAIL
NTS

EROSION & SEDIMENT CONTROL NOTES:

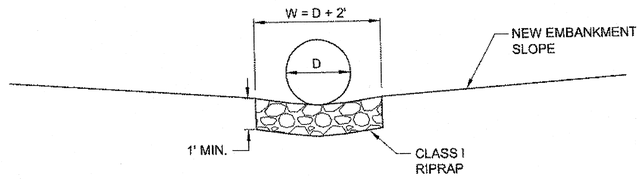
1. REFER TO APPENDIX B OF THE CONTRACT DOCUMENTS FOR THE ENVIRONMENTAL COMMITMENTS.
2. THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO SECTION 641 OF THE SPECIAL PROVISIONS.



PLAN
NTS



SECTION A1-A1
NTS



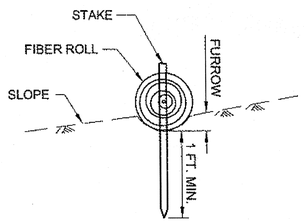
VIEW B-B
NTS

RIPRAP LINED OUTLET PROTECTION DETAIL
NTS

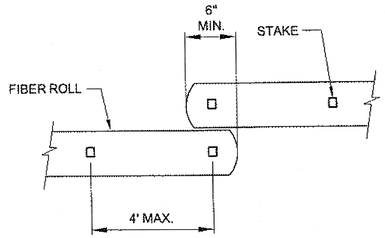
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
DESIGNED BY: C. IVANISZEK	JNU-THANE ROAD CURVE AT SHEEP CREEK SAFETY IMPROVEMENT PROJECT #69331
DRAWN BY: R. GRANTHAM	**EROSION & POLLUTION CONTROL DETAILS**
PATH: Q:\JNU\69331\PLANSET\69331_P3-P4_DETAILS.DWG	
TAB: P3 Tuesday, April 30, 2013 2:23:47 PM GRANTHAM, RICK L (DOT)	

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	P3	31

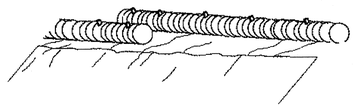


SECTION



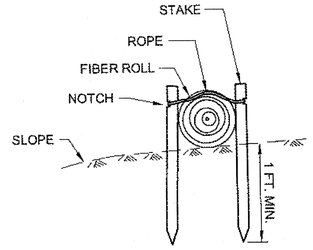
PLAN

FIBER ROLL (TYPE 1)

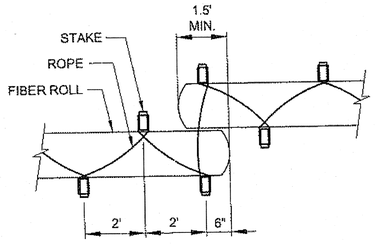


PERSPECTIVE

FIBER ROLL (TYPE 1)

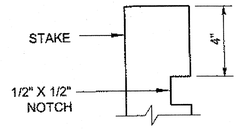


SECTION

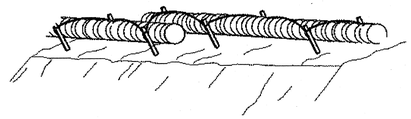


PLAN

FIBER ROLL (TYPE 2)



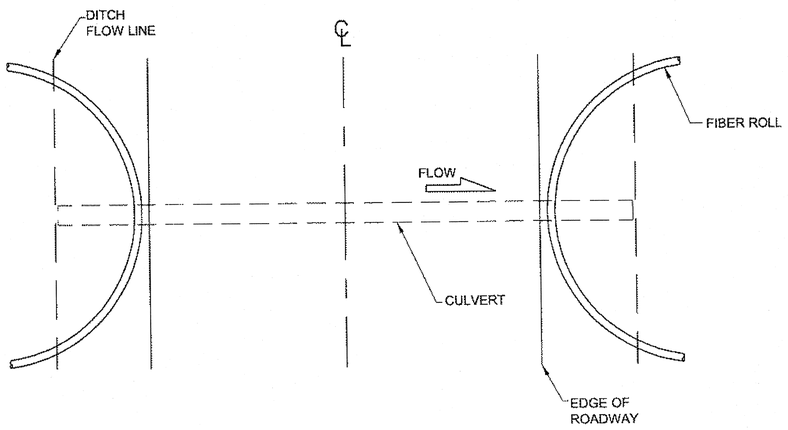
STAKE



PERSPECTIVE

FIBER ROLL (TYPE 2)

TYPICAL FIBER ROLL DETAIL



FIBER ROLL PLACEMENT AT CULVERTS

GENERAL NOTES:

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

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN
DESIGNED BY: C. IVANISZEK
DRAWN BY: R. GRANTHAM

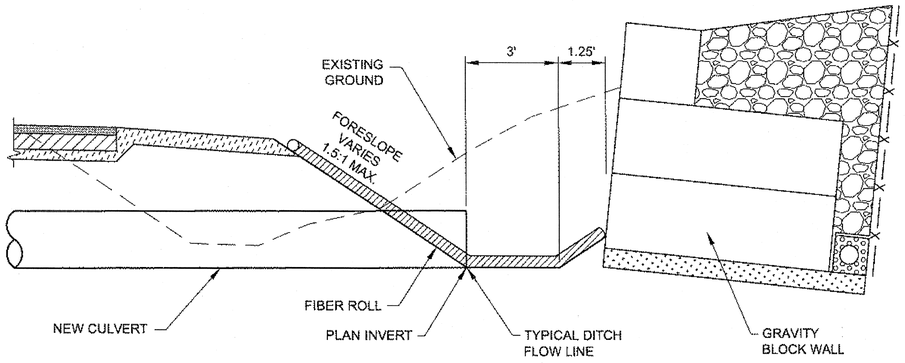
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY
IMPROVEMENT
PROJECT #69331

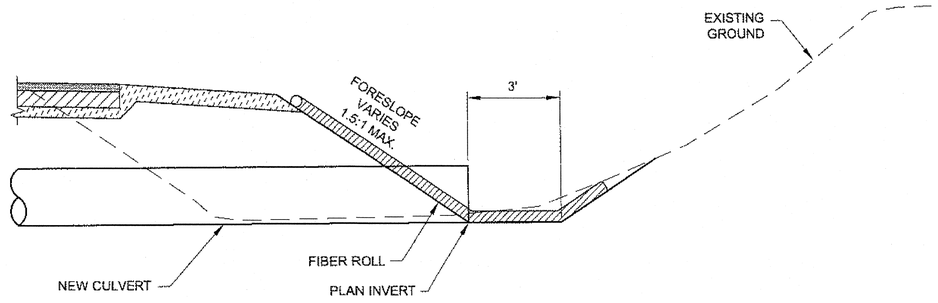
EROSION & POLLUTION CONTROL DETAILS

PATH: Q:\JNU\69331\PLANSET\69331_P3-P4_DETAILS.DWG
TAB: P4 Tuesday, April 30, 2013 2:11:06 PM GRANTHAM, RICK L (DOT)

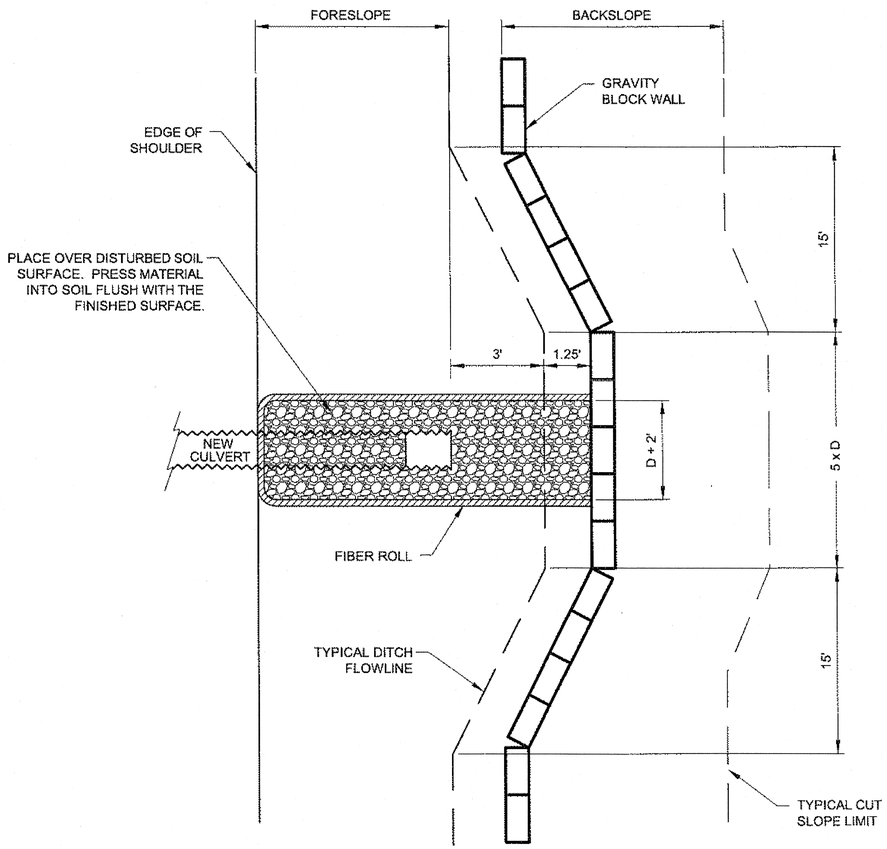
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	P4	31



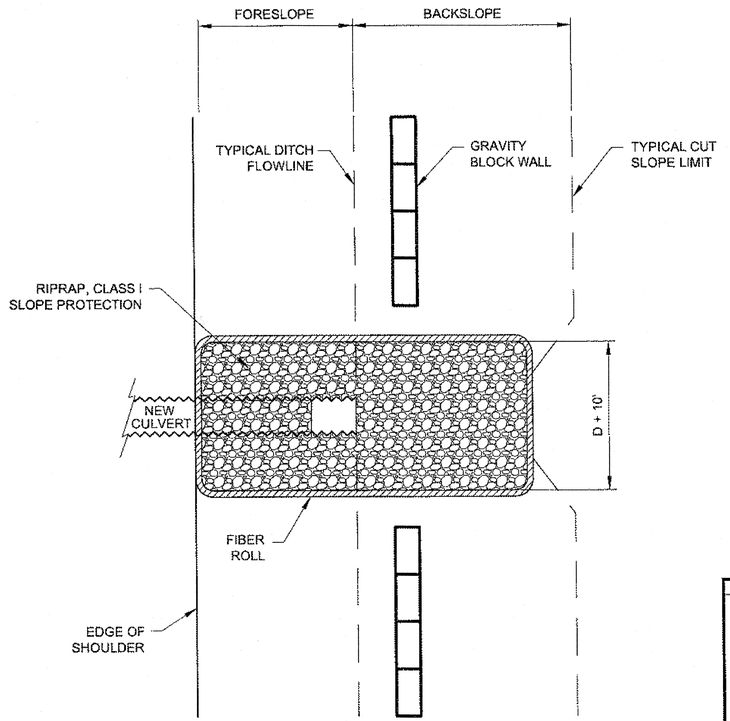
SECTION VIEW: P-3
NTS



SECTION VIEW: P-1
NTS



PLAN VIEW: P-3
NTS



PLAN VIEW: P-1
NTS

DITCH TRANSITION NOTES:

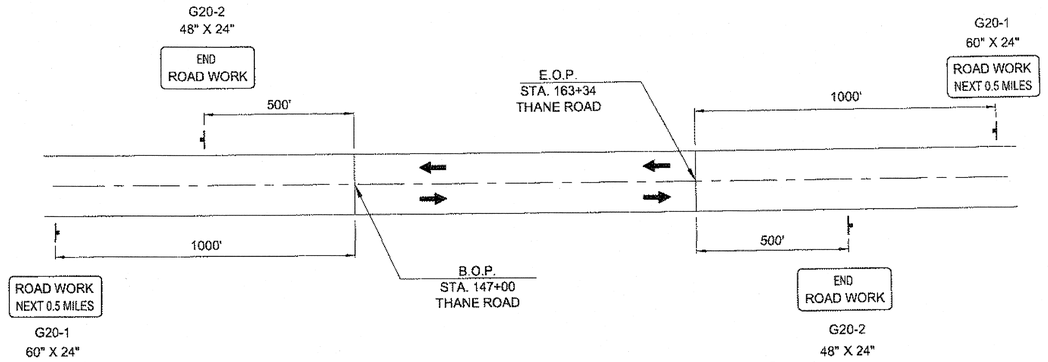
1. AT THE DIRECTION OF THE ENGINEER, TEMPORARY CHECK DAMS MAY BE REQUIRED AT LOCATIONS OTHER THAN THOSE SPECIFIED.
2. LINE DITCHES WITH CLASS I RIPRAP AS DIRECTED TO CONTROL EROSION AND STABILIZE CHANNEL.
3. TRANSITION NEW DITCH SMOOTHLY TO MATCH EXISTING CONDITIONS AS DIRECTED BY THE ENGINEER.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

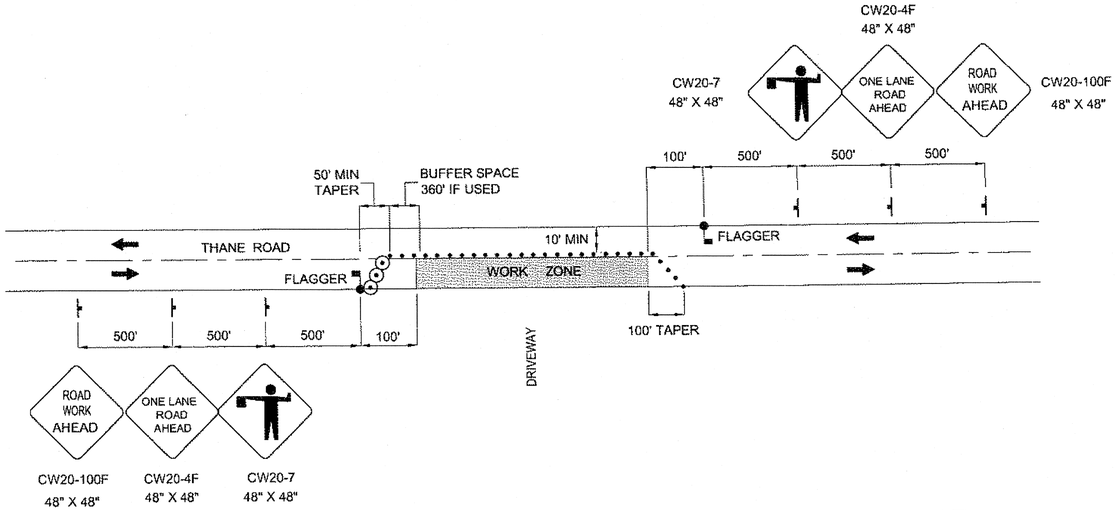
CHECKED BY: K. KARPSTEIN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
	JNU-THANE ROAD CURVE AT SHEEP CREEK SAFETY IMPROVEMENT PROJECT #69331
DESIGNED BY: C. IVANISZEK	**EROSION & SEDIMENT CONTROL DETAILS**
DRAWN BY: R. GRANTHAM	

PATH: Q:\JNU\69331\PLANSET\69331_P5_DETAILS.DWG
TAB: P5 Wednesday, May 01, 2013 10:40:20 AM GRANTHAM, RICK L (DOT)

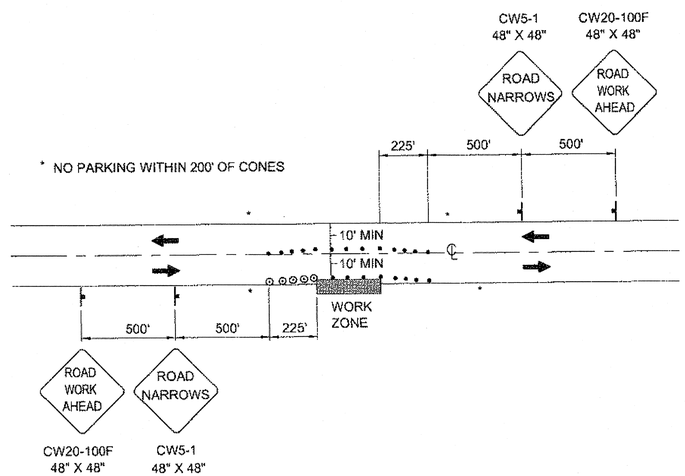
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			HHE-0963(3)~69331	2013	P5	31



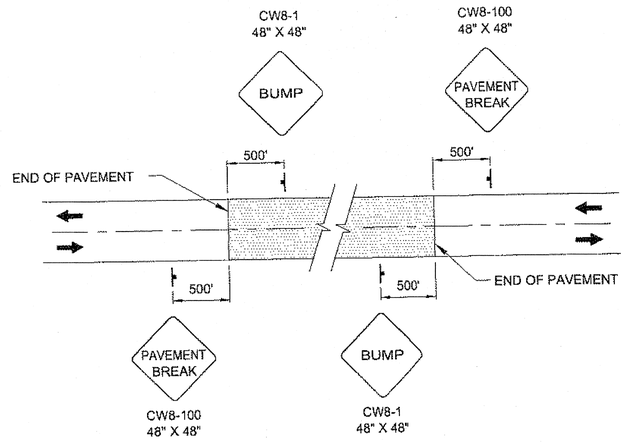
PERMANENT CONSTRUCTION SIGNING



TWO LANE ROADWAY-SINGLE LANE CLOSURE



ROADWAY ENCROACHMENT FOR 45 MPH



SIGNING FOR UNPAVED AREA

LEGEND

- SIGN
- CONE
- DRUM
- FLAGGING STATION

TRAFFIC CONTROL NOTES

1. MINIMUM OF ONE LANE SHALL REMAIN OPEN AT ALL TIMES IN WORK AREAS.
2. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
3. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
4. WARNING LIGHTS SHALL BE USED TO MARK BARRICADES, PORTABLE BARRIERS OR ANY OTHER CHANNELIZING DEVICE AT NIGHT AS DIRECTED BY THE ENGINEER. THE FIRST DEVICE FACING THE DIRECTION OF TRAFFIC SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT, ALL OTHERS SHALL BE EQUIPPED WITH STEADY-BURN WARNING LIGHTS.
5. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, NOT ALL, OF THE TRAFFIC CONTROL SETUPS WHICH WILL BE REQUIRED ON THIS PROJECT. PLANS FOR CONFIGURATIONS NOT COVERED BY THE TCP SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. WHERE APPROPRIATE, THEY SHALL INCORPORATE APPLICABLE DETAILS FROM THESE SHEETS.
6. DRIVEWAYS MAY BE CLOSED DURING ACTUAL WORK ON A GIVEN DRIVEWAY, PROVIDED THAT THE CLOSURE DOES NOT EXCEED 4 HOURS AND THE AFFECTED RESIDENTS HAVE BEEN GIVEN 24 HOURS' NOTICE OF THE CLOSURE.
7. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE PROJECT TO EMERGENCY VEHICLES AT ALL TIMES.
8. TEMPORARY SIGNAL CONTROLS WILL BE COVERED UP OR REMOVED WHEN THEY ARE NOT IN USE.

TCP SETUP TABLE

SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET WIDTH OF OFFSET (W) IN			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE	BUFFER SPACE PER THE ATTSA GUIDE
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	(FT)	(FT)
										35 FT FOR 20 MPH
25 OR BELOW	105	115	125	6	6	6	25	50	155	55
30	150	165	180	6	7	7	30	60	200	85
35	205	225	245	7	8	8	35	70	250	120
40	270	295	320	8	9	9	40	80	305	170
45	450	495	540	11	12	13	45	90	360	220
50	500	550	600	11	12	13	50	100	425	280
55	550	605	660	11	12	13	55	110	495	335
60	600	660	720	11	12	13	60	120	570	415

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012.

DESIGNED BY: C. IVANISZEK

DRAWN BY: R. GRANTHAM

PATH: Q:\JNU\69331\PLANSET\69331_S1_TCP.DWG

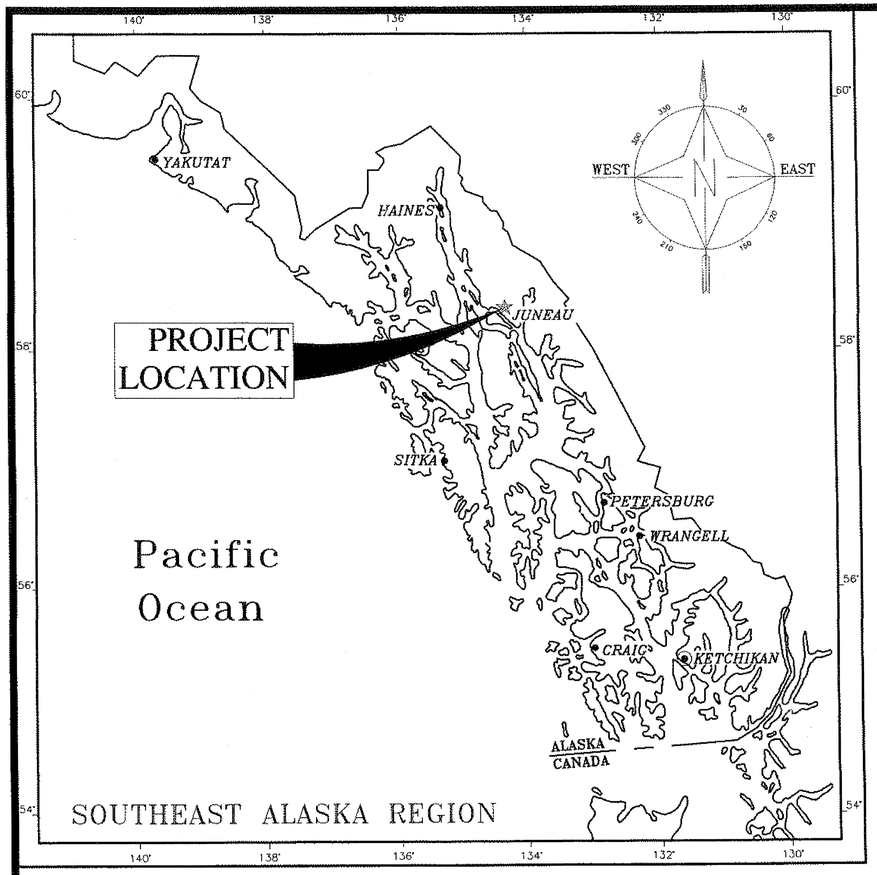
TAB: S1 Tuesday, April 30, 2013 1:02:56 PM GRANTHAM, RICK L (DOT)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-THANE ROAD
CURVE AT SHEEP CREEK SAFETY
IMPROVEMENT
PROJECT #69331

TRAFFIC CONTROL

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0963(3)~69331	2013	S1	31



STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

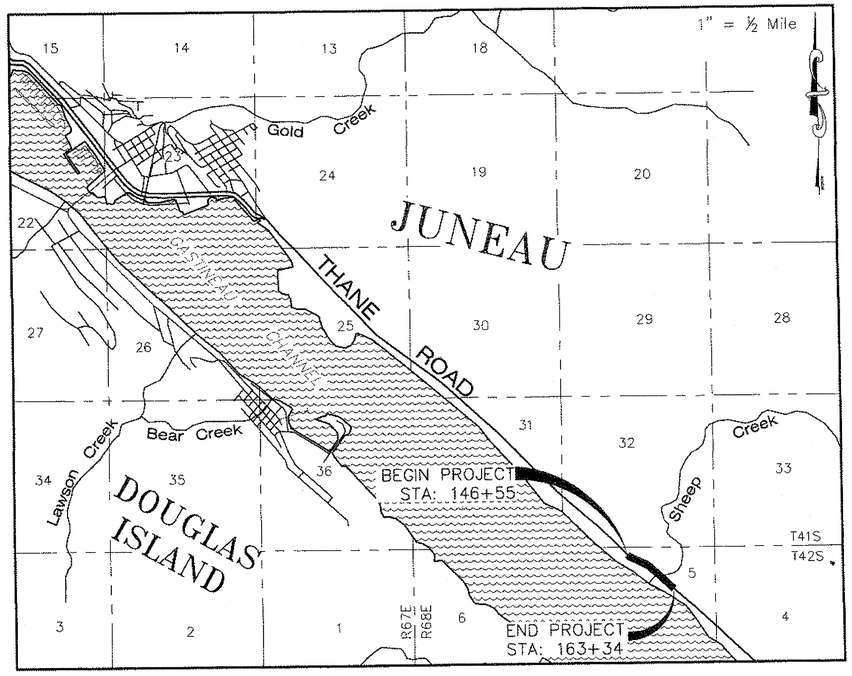
RIGHT OF WAY MAP

SOUTHEAST REGION
ALASKA PROJECT

JUNEAU

THANE ROAD CURVE AT SHEEP CREEK SAFETY IMPROVEMENT

HHE-0963(3) / AKSAS NO. 69331



Vicinity Map

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 is based on information compiled from record data and controlled by recovered monuments and that all dimensions and other details are accurate.

STATE OF ALASKA
49TH
RANDAL V. DAVIS
LS-10611
REGISTERED PROFESSIONAL LAND SURVEYOR

RANDAL V. DAVIS LS-10611 Date

STATE OF ALASKA
DEPARTMENT OF TRANSPORATION
AND
PUBLIC FACILITIES

APPROVED _____
DATE

CHIEF RIGHT OF WAY AGENT
SOUTHEAST REGION

JUNEAU RECORDING DISTRICT
STATE BUSINESS ~ NO FEE

THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION AS DEFINED BY A.S. 40.15.900(5).

Q:\JNU\69331\RW\C3D\THANE_CURVE_ROW-MAP.DWG

PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
HH3-0963 / 69331	2	6

ROW LINETYPES & SYMBOLS

	RECOVERED	TO BE SET THIS PROJECT
FED. GOV'T SECTION CORNER	Sec. Cor. 6 5 7 8	
FED. GOV'T 1/4 SECTION CORNER	5 6 1/4 Cor.	
FED. GOV'T 1/16 SECTION CORNER	1/16 Cor.	
FED. GOV'T SURVEY MONUMENT		
FED. GOV'T SURVEY CORNER		
BENCHMARK		
PRIMARY MONUMENT		
SECONDARY MONUMENT		
CENTERLINE MONUMENT		
GEODETIC CONTROL STATION		
DOT&PF GPS STATION		
TOWNSHIP & RANGE	T. 13 N. / T. 12 N. — R. 2 W. / R. 3 W.	
INTERNATIONAL BOUNDARY	ALASKA / CANADA	
SECTION		
1/4 SECTION		
1/16 SECTION		
CORPORATE or CITY LIMITS		
EXISTING RIGHT-OF-WAY		
PARCEL REQUIRED	(2)	
PROJECT CENTERLINE (ROW ONLY)	27+00	
EXISTING CENTERLINE		
RAILROAD CENTERLINE		
ROW MAP ONLY — PROPOSED RIGHT-OF-WAY		
ROW MAP ONLY — EXISTING RIGHT-OF-WAY	ROW LIMITS	
DESIGN PLANSET ONLY — PROPOSED RIGHT-OF-WAY	ROW	
DESIGN PLANSET ONLY — EXISTING RIGHT-OF-WAY	ROW	
EXISTING PROPERTY		
CONTROLLED ACCESS		
MEANDER		
EXISTING EASEMENT		
PROPOSED EASEMENT		
TEMPORARY PERMIT/EASEMENT		

UTILITY LOCATION SYMBOLS

	EXISTING	PROPOSED
FIRE HYDRANT		
METER		
VALVE or RISER		
POWER POLE		
JOINT USE POWER & TELEPHONE		
TELEPHONE or TELEGRAPH POLE		
GUY POLE	GP	GP
ANCHOR		
UTILITY POLE	UP	UP
TRANSMISSION TOWERS	Steel / Wood	Steel / Wood
POLE ANCHOR		
STUB POWER or TELEPHONE		
LUMINAIRE (MAST ARM MOUNTED)		
LUMINAIRE		
TELEPHONE PEDESTAL	T	T
ELECTRICAL TRANSFORMER	E	E
TELEPHONE BOX	T	T
ELECTRIC BOX	E	E
CABLE BOX	V	V
TELEPHONE MANHOLE	TMH	TMH
ELECTRIC MANHOLE	EMH	EMH
CATCH BASIN or DROP INLET		
FIELD INLET		
WATER MANHOLE	WT MH	WT MH
SEWER MANHOLE	SS MH	SS MH
STORM DRAIN MANHOLE	SD MH	SD MH
SEWER C/O	SS CO	SS CO
FUEL TANK (ABOVE GROUND)		
FUEL TANK (BELOW GROUND)	U	U
FUEL PUMP OR VENT	F-PUMP F-VENT	

UTILITY LOCATION LINETYPES

WATER	W	W
STORM DRAIN	SD	SD
SANITARY SEWER	SS	SS
NATURAL GAS	GAS	GAS
FUEL	F F	F F
TELEPHONE	T	T
TELEVISION	TV	TV
ELECTRIC/TELEPHONE	F/O	F/O
OVERHEAD ELECTRIC	OHE	OHE
UNDERGROUND ELECTRIC	UGE	UGE

LOCATION LINETYPES & SYMBOLS

	EXISTING	PROPOSED
BOTTOM OF DITCH		
TUNNEL		
WETLANDS		
LAKE & RESERVOIRS	LAKE	RES.
RIVER OR CREEK	RIVER	CREEK
CUT SLOPE		
FILL SLOPE		
ROADWAY EDGE		
GUARDRAIL		
SIDEWALK		
CONCRETE CURB		
CONCRETE CURB GUTTER		
CONCRETE CURB CUT		
DRIVEWAYS, APPROACHES		
RETAINING WALL		
RIPRAP		
BRIDGE		
PIPE CULVERTS		
FENCE LINE		
MAILBOX	MB	MB
SATELLITE DISH		
BUILDINGS: H=HOUSE, M=MERCHANT/STORE, S=SHED, SS=SERVICE STATION, G=GARAGE, B=BARN, P=PRIVY, W=WAREHOUSE	H	H
FOUNDATIONS	FD	FD
HEAD & WINGWALLS		
STONE FENCE		
DECIDUOUS TREE		
CONIFER TREE		
EAGLE TREE		
TEST HOLE	TP	
POST/BOLLARD	POST	

ROADWAY SURFACE MARKING

SOLID WHITE STRIPE	FOR STRIPING PLANS	4" SOLID WHITE
SOLID YELLOW STRIPE		8" SOLID WHITE / 4" SOLID YELLOW
BROKEN WHITE or YELLOW STRIPE		4"BROKEN WHITE OR 4" BROKEN YELLOW
SOLID YELLOW STRIPE with BROKEN YELLOW STRIPE		4" BROKEN YELLOW / 4" BROKEN YELLOW / 4" SOLID YELLOW

TRAFFIC CONTROL SYMBOLS

	EXISTING	PROPOSED
CONE		
DRUM		
TYPE I, II, & III BARRICADES		I II III
FLAGGING STATION		
SIGN (FACING)		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, BACKPLATE		
SIGNAL FACE, LEFT TURN, BACKPLATE		
SIGNAL FACE, PEDESTRIAN		
JUNCTION BOX, TYPE I	8	8
JUNCTION BOX, TYPE II	5	5
JUNCTION BOX, TYPE III	3	3
DETECTOR, LOOP	4	4
DETECTOR, MAGNETOMETER	6	6
DETECTOR, RADAR	6	R
DETECTOR, SONIC	S	S
DETECTOR, OPTICOM		
DETECTOR, PUSH BUTTON (DIRECTION)	5	5
SIGNAL CONTROLLER		
LOAD CENTER		
SIGNAL POLE	②	④
SIGNAL POLE w/MASTARM	③	⑤

DO NOT SCALE FROM THIS SHEET USE DIMENSIONS

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT
HHE-0963(3) / AKSAS NO. 69331
JUNEAU
THANE ROAD CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT

DRAWN	DATE	SCALE
EAA	07/25/2012	N/A
CHECKED	DATE	SHEET 2 OF 6

Q:\JNU\69331\RW\C3D\THANE_CURVE_ROW-MAP.DWG

PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
HH3-0963 / 69331	3	6

SCALE IN FEET
0 100' 200'

SHEET 3

ORE HOUSE DRIVE
BEGIN PROJECT
STA:0+00.07

BEGIN PROJECT
STA:146+55.00

END PROJECT
STA:163+34.00

ORE HOUSE DRIVE
END PROJECT
STA:1+15.55

U.S. SURVEY 1078

MINERAL
TRACT 100-2

SURVEY
TRACT 100-1

MINERAL SURVEY 979
HOMESTEAD NO. 3
TRACT 100-3

JUMBO

260

MINERAL SURVEY 979
HOMESTEAD NO. 3

MINERAL SURVEY 979
HOMESTEAD NO. 3

MILLSITE

A.T.S.
TRACT B-1

1328

TRACT B-2

TRACT B3-A

TRACT B3-B

A.T.S. 1570

A.T.S. 1328
TRACT B-5

A.T.S. 1570
TRACT B3-C

A.T.S. 203
TRACT A

A.T.S. 1328
TRACT B-6

A.T.S. 1328
TRACT B-4

A.T.S. 203
TRACT C

A.T.S. 203
TRACT D

E-11
E-12A
E-12B
E-9C
E-14A
E-13A

147+00
150+00
155+00
160+00

THANE ROAD

SHEET 4

MINERAL
SURVEY
TRACT 102
71B
TRACT 100-1
MEXICO
MILLSITE

MINERAL SURVEY 72B
BELVEDERE MILLSITE
TRACT 100-M

U.S.S.
2572
TRACT I

PROTRACTED SECTION 5
T. 42S, R. 68E, C.R.M.

GASTINEAU CHANNEL

HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM

This project is located within the Thane Local Grid created by the Alaska Department of Transportation and Public Facilities (AKDOT & PF) based on a conventional traverse in 1990.

BASIS OF BEARINGS

The Basis of Bearings is Alaska State Plane Zone 1 NAD27 bearing of S 76° 57' 41" E between NGS Station "MINE" and NGS Station "BAY".

NGS Station "MINE" located on the east shore of Juneau Isle in Gastineau Channel. Station is about 2 miles Northwest of Sheep Creek Light and about 0.9 N.M. SSE of Kiny Radio Tower both on the east shore of Gastineau Channel. The station is on range with the flag pole on Juneau Isle and Snowslide Creek on the east shore of the channel. Juneau Isle Light is about 90 Feet NW of the station. The station mark is a standard triangulation disk set in a flat black boulder with an irregular base and stamped "MINE 1960".

NGS Station "Bay" located on the east shore of Gastineau Channel, about 3/4 mile N of Thane Road, directly opposite the Treadwell Mine buildings and at the edge of the old trestled road (collapsed as of 1952 recovery). This road has been abandoned and the houses in the vicinity torn down. Starting from about 1/4 mile to the N a new road around the hillside has been constructed and a power-line with steel towers runs along the new road. The station is between and below the third and fourth towers S of the N end of the old trestle. Above the station a cut in blue clay made in the construction of the new road is prominent. The station mark is an unstamped standard triangulation disk cemented in the top of a boulder that is covered a foot or two at high tide.

THANE GRID HORIZONTAL CONTROL MONUMENTS

TH-6: 2" Aluminum cap grouted in sidewalk adjacent to outbound lane of Thane Road approximately 500' shy of Mt. Roberts Street.

Thane Grid
N 497605.6985'
E 202177.3068'

TH-7A: 1.5" Aluminum Cap grouted in AC adjacent to outbound lane of Thane Road approximately 100' beyond Mill Street.

Thane Grid
N 496702.8862'
E 203151.4307'

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT
HHE-0963(3) / AKSAS NO. 69331
JUNEAU
THANE ROAD CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT

DRAWN	EAA	DATE	07/25/2012	SCALE	1" = 100'
CHECKED		DATE		SHEET	3 OF 6

O:\JNU\69331\RW\C3D\THANE_CURVE_ROW-MAP.DWG

PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
HH3-0963 / 69331	4	6

Parcel Area Table

PARCEL NO.	INTEREST TO BE ACQUIRED	OWNER	PURPOSE	TOTAL AREA	PARCEL AREA	REMAINDER	RECORDING DATA
E-9C	Easement	AJT Mining Properties, Inc.	Cut and Fill Slopes, Power Pole	248,590 SQ FT	8,202 SQ FT	248,590 SQ FT	XXX-XXX-XXX
E-11	Easement	Alaska Industrial Development and Export Authority	Cut Slopes and Retaining Wall	105,829 SQ FT	8,585 SQ FT	105,829 SQ FT	XXX-XXX-XXX
E-12A	Easement	AJT Mining Properties, Inc.	Cut Slopes and Retaining Wall	104,439 SQ FT	11,767 SQ FT	104,439 SQ FT	XXX-XXX-XXX
E-12B	Easement	AJT Mining Properties, Inc.	Fill slopes and Power Pole	32,095 SQ FT	14,474 SQ FT	32,095 SQ FT	XXX-XXX-XXX
TCP-12	Temporary Construction Permit	AJT Mining Properties, Inc.	Access for Utility Pedestal and Driveway	32,095 SQ FT	10,100 SQ FT	32,095 SQ FT	XXX-XXX-XXX

Curve Table

Curve #	Radius	Length	Delta	Chord Direction	Chord Length
C1	597.96	83.37	7°59'18"	N58°28'22"W	83.30'
C2	552.96	77.10	7°59'18"	N58°28'22"W	77.03'
C3	539.96	152.10	16°08'24"	N46°24'31"W	151.60'
C4	605.96	172.02	16°15'54"	N46°20'46"W	171.44'
C5	557.96	157.93	16°13'05"	N30°11'34"W	157.41'
C6	602.96	169.80	16°08'06"	N30°09'04"W	169.24'

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT
HHE-0963(3) / AKSAS NO. 69331
JUNEAU
THANE ROAD CURVE AT SHEEP CREEK SAFETY IMPROVEMENT

DRAWN EAA	DATE 07/25/2012	SCALE 1"= 30'
CHECKED	DATE	SHEET 4 OF 6

Q:\JNU\69331\RW\C3D\THANE_CURVE_ROW-MAP.DWG

PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
HHE-0963 / 69331	5	6

Parcel Area Table

PARCEL NO.	INTEREST TO BE ACQUIRED	OWNER	PURPOSE	TOTAL AREA	PARCEL AREA	REMAINDER	RECORDING DATA
E-13A	Easement	AJT Mining Properties, Inc.	Cut Slopes	2,900 SQ FT	2,900 SQ FT	2,900 SQ FT	XXX-XXX-XXX
E-14A	Easement	AJT Mining Properties, Inc.	Cut Slopes	91,915 SQ FT	1,497 SQ FT	91,915 SQ FT	XXX-XXX-XXX

Curve Table

Curve #	Radius	Length	Delta	Chord Direction	Chord Length
C1	336.48	147.51	25°07'04"	S34°49'11"E	146.33'
C2	336.48	92.26	15°42'37"	S30°06'57"E	91.97'
C3	336.48	55.25	9°24'28"	S42°40'30"E	55.19'
C4	257.84	78.56	17°27'26"	S83°12'25"E	78.26'
C5	222.84	33.80	8°41'23"	N83°34'40"E	33.76'
C6	225.00	132.17	33°39'29"	N83°56'17"W	130.28'
C7	160.00	60.14	21°32'14"	N89°59'54"W	59.79'
C8	278.73	49.06	10°05'04"	N45°51'14"W	49.00'

Mineral Survey 71B
Mexico Millsite
Tract 102 (100M)
WD Bk331,Pg638

Mineral Survey 72B
Belvedere Millsite
WD Bk331,Pg638

Mineral
Tract 100-1
WD Bk99,Pg29

Mexico
Survey

Mineral
Tract 100-1
Bk331,Pg635
Alaska Industrial Development and Export Authority
Survey

Millsite
71B
AJT Mining Properties, Inc.

260

Jumbo

AJT Mining Properties, Inc.

Millsite

Project ℄
Curve Data
Δ=24°59'22"
T=157.56'
R=711.00'
L=310.10'
CH=S34°49'34"E
LC=307.65'

Utility Easement
Tract 100E-2
Bk331, Pg642

ROW LIMITS

From C1 MS72B
To C13 ATS203
N49°56'03"E
6.23'

END PROJECT
STA:163+34.00

A.T.S.203
Tract C
AJT Mining Properties, Inc.

A.T.S.203
Tract D
AJT Mining Properties, Inc.

MATCH LINE STA: 154+50

THANE ROAD

Proposed Centerline

Fill Limits

Cut Limits

Retaining Wall

Mineral Survey 260

A.T.S. 1328
Tract B-1

A.T.S. 1570
Tract B3-A
Plat 98-52
City and Borough of Juneau

A.T.S. 1328
Tract B-2
Plat 94-2
City and Borough of Juneau

A.T.S. 1328
Tract B-5
Plat 94-2

A.T.S. 1328
Tract B-4
Plat 94-2

Right of Way Permit
Bk486, Pg717

SCALE IN FEET
0 30' 60'

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT
HHE-0963(3) / AKSAS NO. 69331
JUNEAU
THANE ROAD CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT

DRAWN	EAA	DATE	07/25/2012	SCALE	1" = 30'
CHECKED		DATE		SHEET	5 OF 6

Q:\JNU\69331\RW\C3D\THANE_CURVE_ROW-MAP.DWG

PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
HHJ-0963 / 69331	6	6

MONUMENT SUMMARY SHEET

RECOVERED CORNERS

LOCATION	MONUMENT TYPE	NORTHING	EASTING	STATION	OFFSET
MC19 S3269	1.5" Copperweld	485483.3888	215354.8173		
C2 ATS203	Brass Cap	488041.4057	212551.3293		
C2 S2580/S3269	Brass Cap	485797.4954	215690.1929		
C5 USMS 900	Pin	488198.0769	212230.2455		
C1 ATS203	Brass Cap	488077.6310	212477.3558		
COR1 USMS 728	Aluminum Cap	486481.3290	214431.4740		
ATS1328/TR A/TR B4/C1 TR B3	Aluminum Cap	487605.1057	213122.1074	144+74.14	228.27R
ATS 1328 WC 13 TR B3	Aluminum Cap	487395.4409	213112.2540	145+55.50	419.57R
ATS1328 C3 TR B3/C7 TR B1	3.5" Aluminum Cap	487365.7479	213464.2750	148+87.16	287.65R
ATS204 C9 TR A	Aluminum Cap	487492.3017	213545.0854	149+03.51	137.92R
C2 S1078	Brass Tablet in Concrete	487621.7448	213978.5573	151+45.57	239.11L
C6 MS969/MS 260	Brass Cap	487605.1573	213965.7172	151+48.52	218.50L
USM260 SW COR TR 100-2	3.5" Aluminum Cap	487501.2009	213865.0144	151+58.80	74.29L
ATS 1328 C1 TR B1	Aluminum Cap	487375.5044	213740.1721	151+75.43	102.13R
ATS1328 TR A/TR B1	3.5" Aluminum Cap	487352.1232	213721.1590	151+82.89	131.61R
C3 MS260/C6 MS969	Brass Cap	487595.2755	214029.8149	151+84.96	261.31L
ATS1328 C5 TR B1/C5 TR B3	3.5" Aluminum Cap	487216.5895	213701.7841	153+20.15	222.30R
ATS 1328 C2 TR B1	Aluminum Cap	487205.8436	213855.5154	154+08.94	86.23R
ATS1328 C4 TR B1/C6 TR B3	3.5" Aluminum Cap	487165.0529	213791.0579	154+22.18	161.35R
ATS1328 C7 TR B3/C4 TR B2	3.5" Aluminum Cap	487125.7240	213768.8559	154+50.12	196.83R
ATS1328 C3 TR B1/C2 TR B2	3.5" Aluminum Cap	487115.0447	213877.5282	155+01.29	100.37R
ATS1328 C8 TR B3/TR B2	3.5" Aluminum Cap	487076.8015	213856.0263	155+28.50	134.79R
BPR BC	Brass Cap	487071.1783	214034.1534	156+01.38	27.84L
ATS1328 C10 TR B3/C1 TR B	3.5" Aluminum Cap	487001.6789	213994.9458	156+50.77	34.83R
ATS1328 C10 TR B3/B4	Aluminum Cap	486655.3796	214119.9908	160+02.21	74.47R
AT1328 C11 TR B3/TR B4	Aluminum Cap	486621.2515	214083.1874	160+06.97	124.37R
1932	Brass Cap	486639.0234	214389.5357	161+98.22	110.33L
C13 ATS 203/C1 MS728	Brass Cap	486485.3390	214436.2418	163+36.74	29.01L
MS71B/MS72B	Aluminum Cap	486788.3737	214784.6214	163+87.43	487.95L
C4 S72B/C2 S2572	Brass Cap	486441.8441	215112.6631	168+63.50	455.57L
USLM2572	Brass Cap	486013.4053	214857.0881	169+66.03	32.65R
BLM WCMC C4 S2572/S3269	Brass Cap	485901.3647	215207.7513	173+17.36	94.27L
C3 S2572/L1 S3269/L2A	Brass Cap	486134.5982	215457.2684	174+20.77	423.70L

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AND COORDINATES ARE U.S. SURVEY FEET.
2. THE TOPOGRAPHY SURVEY WAS PERFORMED BY ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES IN 1991 AND SUPPLEMENTED IN ?.
3. RIGHT-OF-WAY MAPPING WAS PERFORMED BY THE ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES IN 1991 and 2012.
4. REFER TO STATION AND OFFSETS FOR RIGHT-OF-WAY ANGLE POINT LOCATIONS.
5. CENTERLINE MONUMENTS ALONG THANE ROAD AS SHOWN ON SHEET 4 HAVE SINCE BEEN DESTROYED BY ROAD CONSTRUCTION.
6. WHETHER LISTED OR NOT, UNLESS OTHERWISE NOTED, ALL MONUMENTS OR PROPERTY MARKERS/CORNERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260(1)) AND RECORDED (A.S. 34.65.040).

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT
HHE-0963(3) / AKSAS NO. 69331
JUNEAU
THANE ROAD CURVE AT SHEEP CREEK
SAFETY IMPROVEMENT

DRAWN	DATE	SCALE
EAA	07/25/2012	N/A
CHECKED	DATE	SHEET 6 OF 6

Q:\JNU\69331\RW\C3D\THANE_CURVE_ROW-MAP.DWG