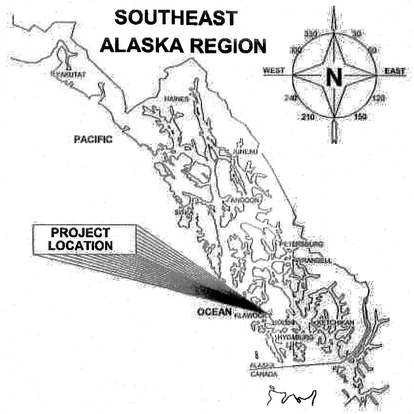
State of Alaska

Department of Transportation and Public Facilities Southeast Region

May 13, 2015

The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.

Cody Sutton



POW: CRAIG-KLAWOCK GUARDRAIL IMPROVEMENT REBID

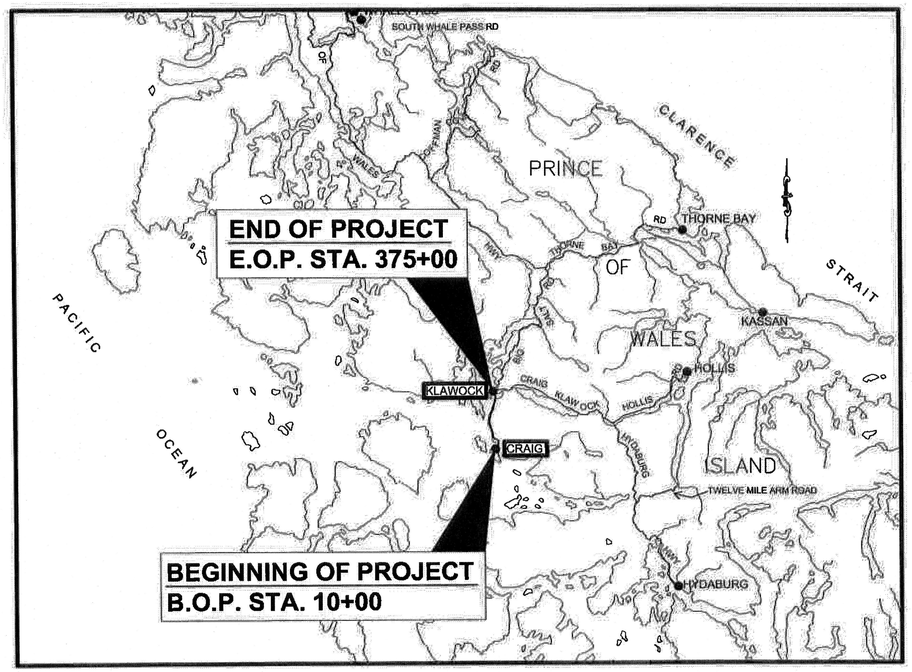
CRAIG-KLAWOCK HIGHWAY
PROJECT No. AC-HHE-0924(020)/67832

AS-BUILT PLANS

SIGNATURE: Steven Winniford

DATE: September 22, 2015

Contractor: Southeast Road Builders
Project Engineer: Steven Winniford
Begin Construction: June 19, 2015
End Construction: September 21, 2015



VICINITY MAP

DESIGN DESIGNATION

A.D.T. 2015	=	3390
A.D.T. 2035	=	3750
D.H.V. (10.7%) 2015	=	390
D.H.V. (10.7%) 2035	=	430
% T	=	9.5%
V	=	25-50 MPH
E.S.A.L.	=	550,000

PROJECT SUMMARY

CDS ROUTE NO.	=	292000
CDS MILEPOINT	=	0.0 - 6.9
LENGTH OF PROJECT	=	6.9 MI
LENGTH OF GUARDRAIL	=	14,912.5 FT
PROJECT TYPE	=	HSIP

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	G-00.02	G-13.00	G-31.00
D-01.02	G-04.10S	G-20.11	I-20.14
E-13.00	G-10.01	G-28.00	

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2-A8	CONTROL SURVEY DATA
A9	LAYOUT
B1	ESTIMATE OF QUANTITIES
D1	SUMMARY TABLES
E1-E2	DETAILS
F1-F21	PLAN SHEETS
P1	EROSION & SEDIMENT CONTROL PLAN
T1	TRAFFIC CONTROL PLAN

PATH: Q:\POW\67832\ENI\C3D\A1 TITLE SHEET CRG_2_KLW_GRAILS.DWG TAB:A1

Wednesday, February 12, 2014 8:18:41 AM

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

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

STATE OF ALASKA 49TH — Gregory K. Lockwood — CE-11850 — PROFESSIONAL ENGINEER — 1/16/15

APPROVED: Pat Carroll 1/15/15
REGIONAL PRE-CONSTRUCTION ENGINEER — DATE
L. PAT CARROLL, P.E.

APPROVED: Chuck Correa 1/15/15
DIRECTOR OF DESIGN & CONSTRUCTION — DATE
CHUCK CORREA, P.E.

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

Paul C. Nagle 10/14/15
CONSTRUCTION PROJECT MANAGER — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AC-HHE-0924(020) / 67832	2015	A1	36

A2 Survey Control						
Point #	Northing	Easting	Elevation	Description	Station	Offset
1	472458.68	285896.16	44.03	GPS_SH_MON_K1	14+34.78	14.70L
2	472348.55	286703.69	19.76	GPS_SH_MON_K2	22+47.49	16.15R
3	472458.71	287894.09	54.62	GPS_SH_MON_K3	34+45.80	15.78L
4	472462.03	289328.30	17.38	GPS_SH_MON_K4	48+78.39	16.81R
5	472782.06	289983.88	20.08	GPS_SH_MON_K5A	56+07.71	15.81R
6	473626.59	290680.15	52.01	GPS_SH_MON_K5	66+99.87	14.44R
7	474355.14	290957.97	53.08	GPS_SH_MON_K6	74+79.80	15.78R
8	475162.32	290868.51	29.06	GPS_SH_MON_K7	82+91.44	15.89R
9	475632.82	290536.45	29.39	GPS_SH_MON_K8	88+68.27	14.18L
10	477278.42	288995.97	69.15	GPS_SH_MON_K9	111+30.75	14.45L
11	477859.32	288934.48	71.52	GPS_SH_MON_K10	117+14.21	13.32L
12	478483.21	289140.68	68.32	GPS_IP1"_K11	123+69.73	15.64R
13	479474.65	289416.92	28.72	GPS_SH_MON_K12	133+97.34	16.43R
14	481946.93	289257.20	48.98	GPS_SH_MON_K13	158+74.17	14.81L
15	484029.49	289463.58	55.89	GPS_SH_MON_K14_PLUS	179+69.65	14.42L
16	484927.35	289337.19	62.51	GPS_SH_MON_K15	188+78.98	14.19L
17	486474.95	289727.18	33.20	GPS_SH_MON_K16	204+89.92	14.49R
18	487263.34	290056.60	17.24	GPS_SH_MON_K17	213+44.59	15.19L
19	488168.34	290625.39	23.73	GPS_SH_MON_K18	224+18.82	15.89L
20	489590.98	291498.31	48.31	GPS_SH_MON_K19	240+87.00	14.54R
21	490376.68	291953.11	52.24	GPS_SH_MON_K20	249+95.29	14.35L
22	490889.52	292509.94	52.44	GPS_SH_MON_K21	257+50.91	12.90L
23	491260.46	293123.54	47.05	GPS_SH_MON_K22	264+68.40	13.51L
24	491780.08	293606.01	38.02	GPS_SH_MON_K23	271+81.34	16.25R
25	493058.18	294141.65	36.73	GPS_SH_MON_K24	285+66.81	13.31L
26	494348.30	294918.37	70.18	GPS_SH_MON_K25A	300+72.70	14.79L
27	495450.04	295853.36	68.44	GPS_SH_MON_K26	315+29.50	16.99R
28	495247.26	295584.99	65.30	GPS_SH_MON_K25	311+80.15	14.01L
29	496762.90	296292.06	22.17	GPS_SH_MON_K27	329+24.45	14.87L
30	497701.26	296421.46	36.21	GPS_SH_MON_K28	338+74.19	15.54R
31	499416.24	296541.60	19.26	GPS_SH_MON_K29	355+90.96	17.29L
32	500312.56	297694.44	16.77	GPS_SH_MON_K30	372+86.56	12.94R
33	500095.82	299113.47	29.92	GPS_SH_MON_K31	N\A	N\A
34	500000.00	300000.00	32.25	GPS_OPUS_ALCTRL2"_KH-17	N\A	N\A
100	472419.39	287065.78	18.51	GPS-OPUS_BC3.25"	26+15.86	14.27R
101	477032.34	288054.83	15.51	GPS_BC3.5"_NOS-0551D	111+86.58	984.20L
135	472489.13	285462.19	20.11	GPS_CL_MON_DOH	103+41.97	5804.41L

All **SURVEY CONTROL MONUMENTS** in these **existing survey control** tables shall be **preserved** and **referenced** prior to disturbance and replaced at their original horizontal position.

HORIZONTAL CONTROL

The basis of horizontal control is #100. Coordinates were established at #100 by a series of OPUS sessions in March 2009. Observed OPUS postion:
NAD83 (CORS96) (Epoch 2003.0000)
Latitude : 55°28'36.50363"N
Longitude : 133°08'36.88426"W
Ellipsoid Ht: 5.93'
Pseudo Ellipsoid Ht: 11.25' for geoid'99 to produce orthometric heights related to MLLW.

The basis of bearing for this project is the Alaska State Plane Zone 1 grid bearing of N 25°07'29" E from #100 to #34(KH-17).

The KLW-CRG Grid 2009 is a local ground coordinate system based at DOT aluminum cap #34 (KH-17).
The Grid system relates to AKSPC zone 1 NAD83(CORS96) through the following parameters:
Zone = NAD83 AKSPC ZONE 1 US FT
Grid Scale = 0.9999718
Convergence = 00'0" (project is on grid bearings)
Translation about #34 as follows:
AKSPC Northing = 1358405.64 US FT
AKSPC Easting = 2807423.91 US FT
Local Northing = 500000.00 US FT
Local Easting = 300000.00 US FT

AS-BUILT PLANS
INITIALS: SW DATE: September 22, 2015

Project Specific Horizontal Control

#100 : an unmarked 3 1/4" Brass Cap set flush in concrete sidewalk adjacent to Craig South Harbor approximately 40' east of wood ramp to South Harbor.
KLW_CRG-Grid N 472419.39 FT US, E 287065.78 FT US
AKSPC N 1330825.81 FT US , E 2794490.06 FT US

#34 : (marked KH-17) is a 2" Aluminum Cap on Aluminum drive rod set 2" below grade in grass adjacent to Klawock to Hollis Highway. The point is approximately 330' west of the easterly entrance to Klawock Grocery Store, and 34' north of highway edge.
KLW_CRG-Grid N 500000.00 FT US, E 300000.00 FT US
AKSPC N 1358405.64 FT US, E 2807423.91 FT US

VERTICAL CONTROL

The basis of vertical control is the National Ocean Service benchmark 0551-D with a 5/13/2008 published elevation of 15.51' above Mean Lower Low Water. This is NOS Tidal Series 9450551.
http://www.co-ops.nos.noaa.gov/data_menu.shtml?stn=9450551%20Craig,%20AK&type=Bench%20Mark%20Data%20Sheets
This benchmark is #101 in DOT control network. #101 is a 3 ½" brass cap set in a large concrete anchor adjacent to the concrete ramp near the Petro Marine services building in Craig. Elevations transferred throughout control network are orthometric heights above MLLW derived from Geoid '99. Further BM descriptions can be obtained at aforementioned co-ops website.

PATH: Q:\POW\67832\S\V\C3D\BASEMAPS\CRG_2_KLW_G
IGNOTOV, DANIEL M (DOT)
TAB: A2 Thursday, January 15, 2015 10:58:4 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

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.

CHECKED BY: D.IGNOTOV

STATE OF ALASKA 49TH
Dan M. Ignotov No. 11296
REGISTERED PROFESSIONAL LAND SURVEYOR

DESIGNED BY: J.PAPOI
DRAWN BY: J.PAPOI

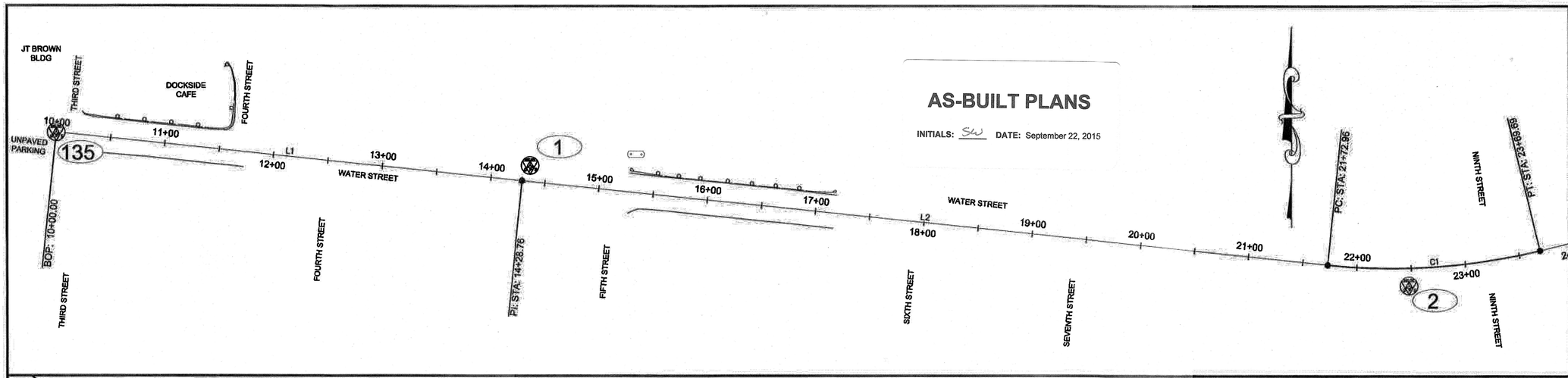
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARD RAIL IMPROVEMENTS
REBID
PROJECT #67832

SURVEY CONTROL

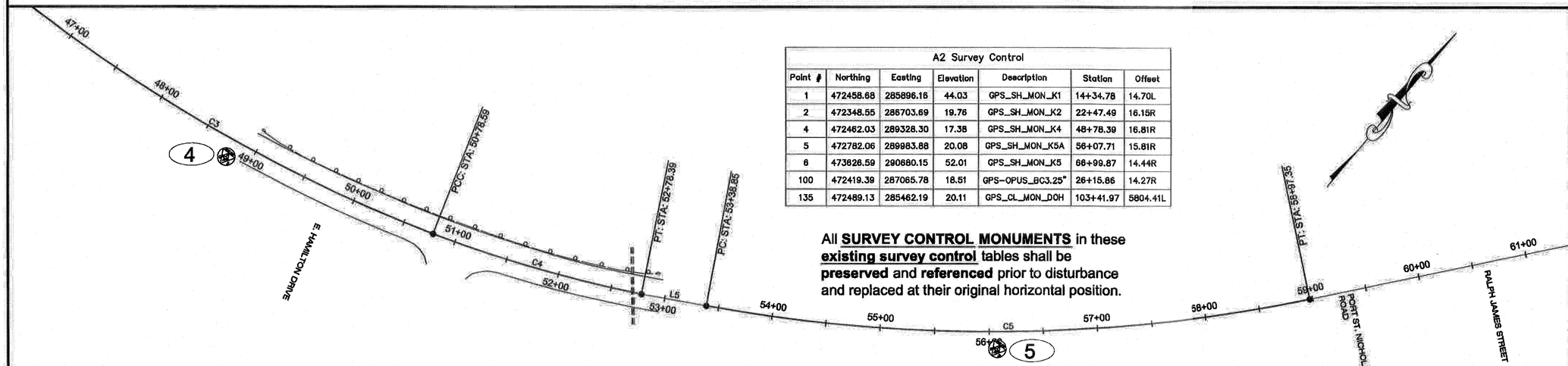
PROJECT DESIGNATION
AC-HHE-0924(020)

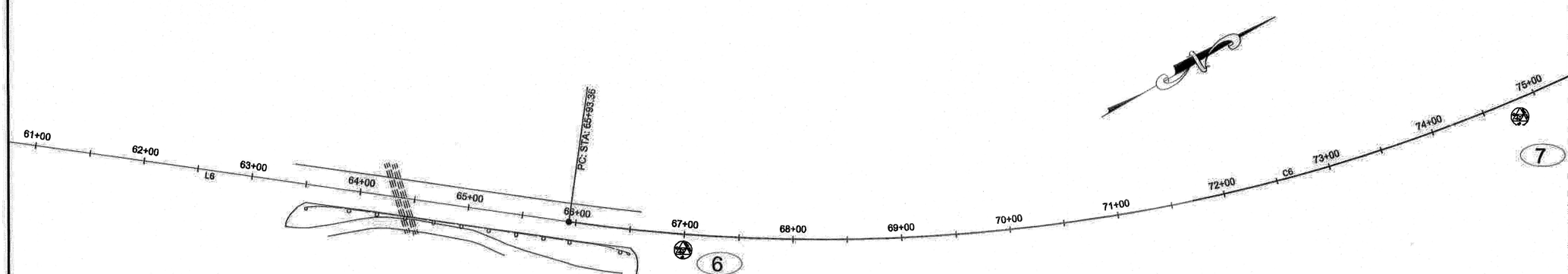
STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
A2	35



AS-BUILT PLANS

INITIALS: SW DATE: September 22, 2015





A2 Survey Control						
Point #	Northing	Easting	Elevation	Description	Station	Offset
1	472458.68	285896.16	44.03	GPS_SH_MON_K1	14+34.78	14.70L
2	472348.55	286703.69	19.76	GPS_SH_MON_K2	22+47.49	16.15R
4	472462.03	289328.30	17.38	GPS_SH_MON_K4	48+78.39	16.81R
5	472782.06	289983.88	20.08	GPS_SH_MON_K5A	56+07.71	15.81R
6	473628.59	290680.15	52.01	GPS_SH_MON_K5	66+99.87	14.44R
100	472419.39	287065.78	18.51	GPS-OPUS_BC3.25*	26+15.86	14.27R
135	472489.13	285462.19	20.11	GPS_CL_MON_DOH	103+41.97	5804.41L

All **SURVEY CONTROL MONUMENTS** in these **existing survey control** tables shall be **preserved** and **referenced** prior to disturbance and replaced at their original horizontal position.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\SV\C3D\BASEMAPS\CRG_2_K\W_G

PAPOI, JAMES M (DOT)
TAB: A3 Thursday, January 15, 2015 9:50:25 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MONUMENT NOTES:

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CHECKED BY: D.IGNOTOV

STATE OF ALASKA 49TH Dan M. Ignotov No. 11296 REGISTERED PROFESSIONAL LAND SURVEYOR

DESIGNED BY: J.PAPOI

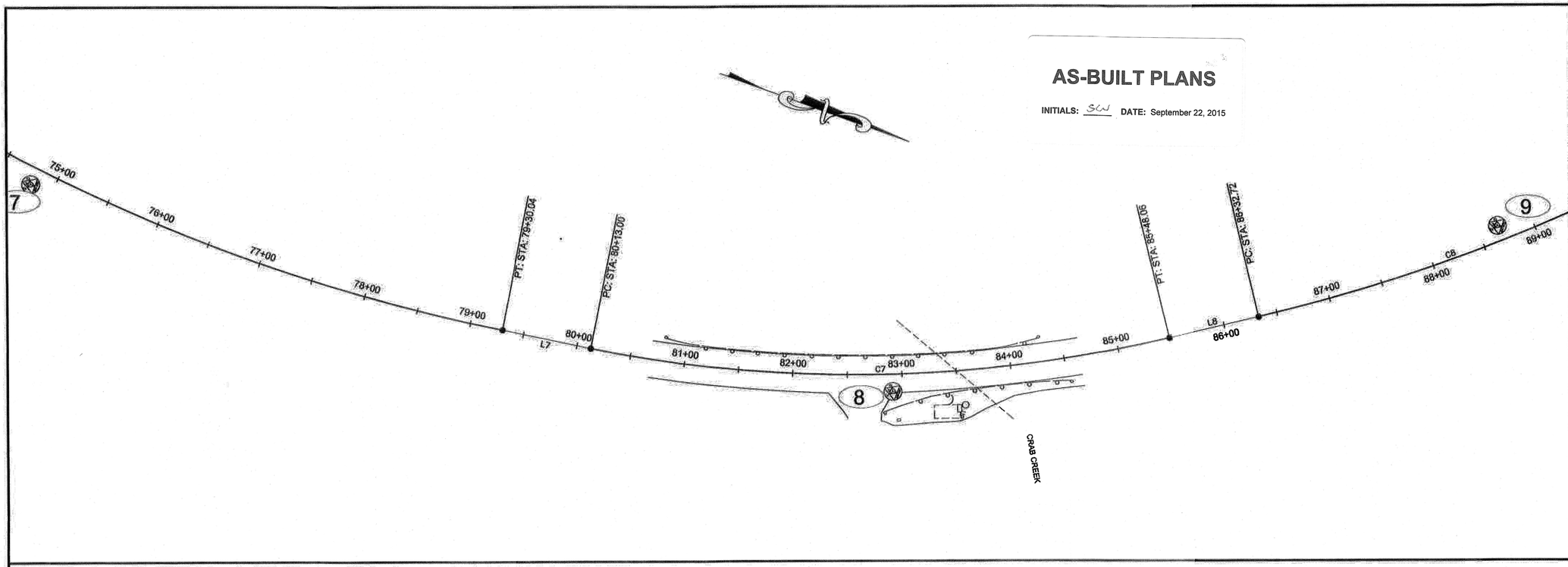
DRAWN BY: J.PAPOI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARD RAIL IMPROVEMENTS
REBID
PROJECT #67832

SURVEY CONTROL

PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	**2014**
SHEET NUMBER	TOTAL SHEETS
A3	**35**



A2 Survey Control						
Point #	Northing	Easting	Elevation	Description	Station	Offset
7	474355.14	290957.97	53.08	GPS_SH_MON_K6	74+79.80	15.78R
8	475162.32	290868.51	29.08	GPS_SH_MON_K7	82+91.44	15.89R
9	475632.82	290536.45	29.39	GPS_SH_MON_K8	88+68.27	14.18L
10	477278.42	288995.97	69.15	GPS_SH_MON_K9	111+30.75	14.45L
11	477859.32	288934.46	71.52	GPS_SH_MON_K10	117+14.21	13.32L

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DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\SV\C3D\BASEMAPS\CRG_2_KLW_C

PAPOI, JAMES M (DOT)
TAB: A4 Thursday, January 15, 2015 9:51:33 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MONUMENT NOTES:

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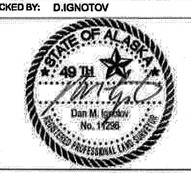


DESIGNED BY: J.PAPOI

DRAWN BY: J.PAPOI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

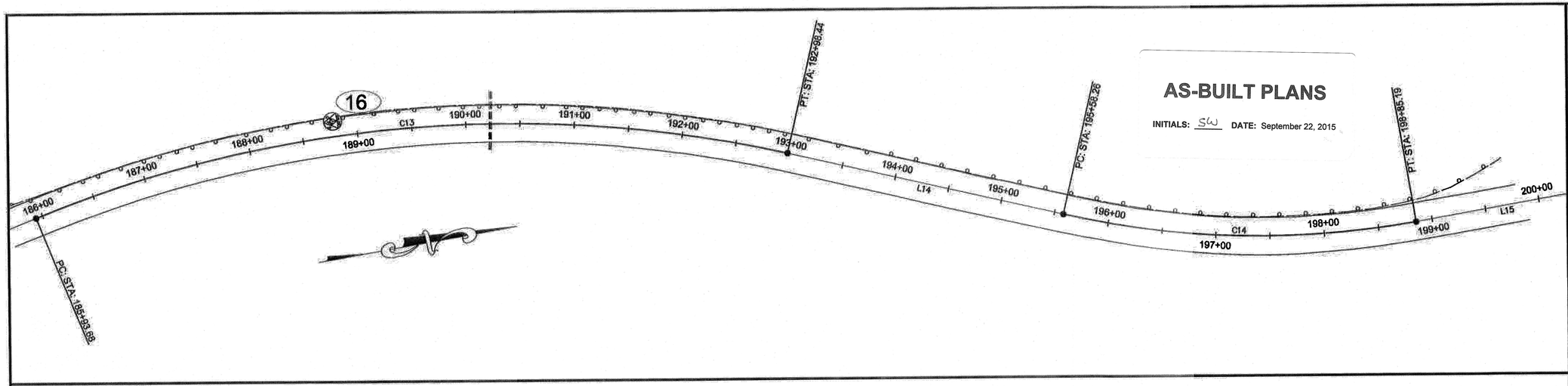
CRAIG-KLAWOCK HIGHWAY:
GUARD RAIL IMPROVEMENTS
REBID
PROJECT #67832

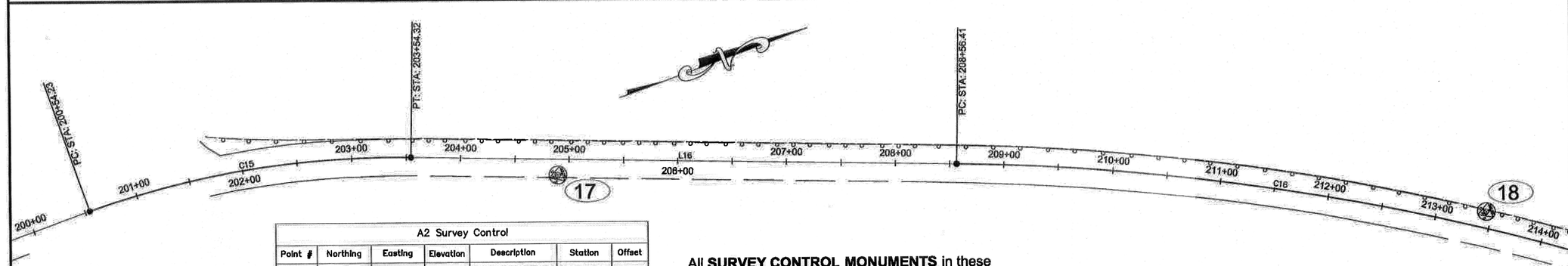
SURVEY CONTROL

PROJECT DESIGNATION
AC-HHE-0924(020)

STATE	YEAR
ALASKA	2014

SHEET NUMBER	TOTAL SHEETS
A4	35





A2 Survey Control						
Point #	Northing	Easting	Elevation	Description	Station	Offset
16	484927.35	289337.19	62.51	GPS_SH_MON_K15	188+78.98	14.19L
17	486474.95	289727.18	33.20	GPS_SH_MON_K16	204+89.92	14.49R
18	487263.34	290056.60	17.24	GPS_SH_MON_K17	213+44.59	15.19L
19	488168.34	290625.39	23.73	GPS_SH_MON_K18	224+18.82	15.89L

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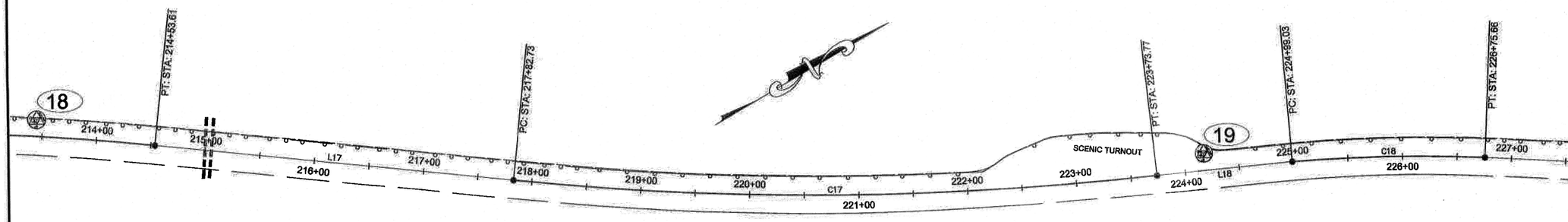

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

AS-BUILT PLANS

INITIALS: SW DATE: September 22, 2015

PATH: Q:\POW\67832\SV\C3D\BASEMAPS\CRG_2_K0W_0

PAPOI, JAMES M (DOT)
TAB: A5 Thursday, January 15, 2015 9:52:56 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

MONUMENT NOTES:

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CHECKED BY: D.IGNOTOV

STATE OF ALASKA 49TH
Dan M. Ignotov
No. 11296
REGISTERED PROFESSIONAL LAND SURVEYOR

DESIGNED BY: J.PAPOI

DRAWN BY: J.PAPOI

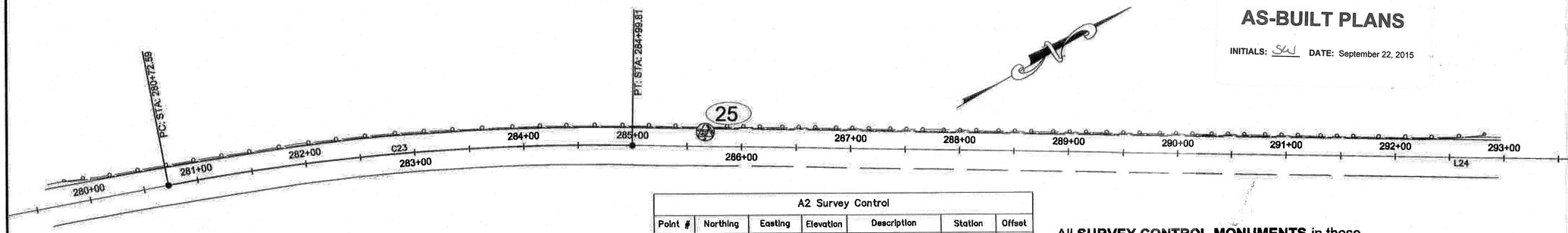
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARD RAIL IMPROVEMENTS
REBID
PROJECT #67832

SURVEY CONTROL

PROJECT DESIGNATION
AC-HHE-0924(020)

STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
A5	35



AS-BUILT PLANS

INITIALS: SWJ DATE: September 22, 2015

A2 Survey Control						
Point #	Northing	Easting	Elevation	Description	Station	Offset
25	493058.18	294141.65	36.73	GPS_SH_MON_K24	285+86.81	13.31L
26	494348.30	294918.37	70.18	GPS_SH_MON_K25A	300+72.70	14.79L
27	495450.04	295853.36	68.44	GPS_SH_MON_K26	315+29.50	16.99R
28	495247.26	295564.99	65.30	GPS_SH_MON_K25	311+80.15	14.01L

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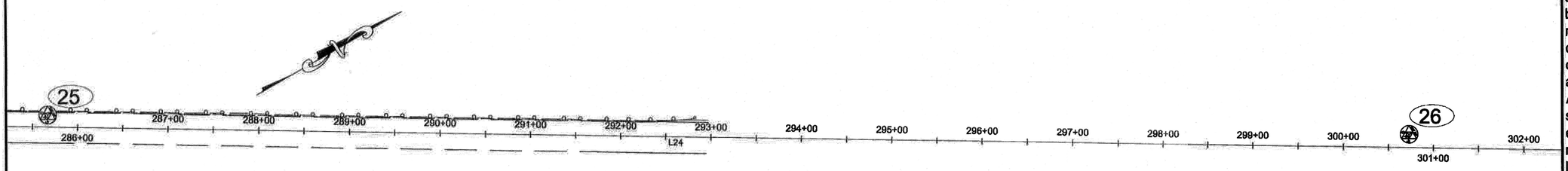

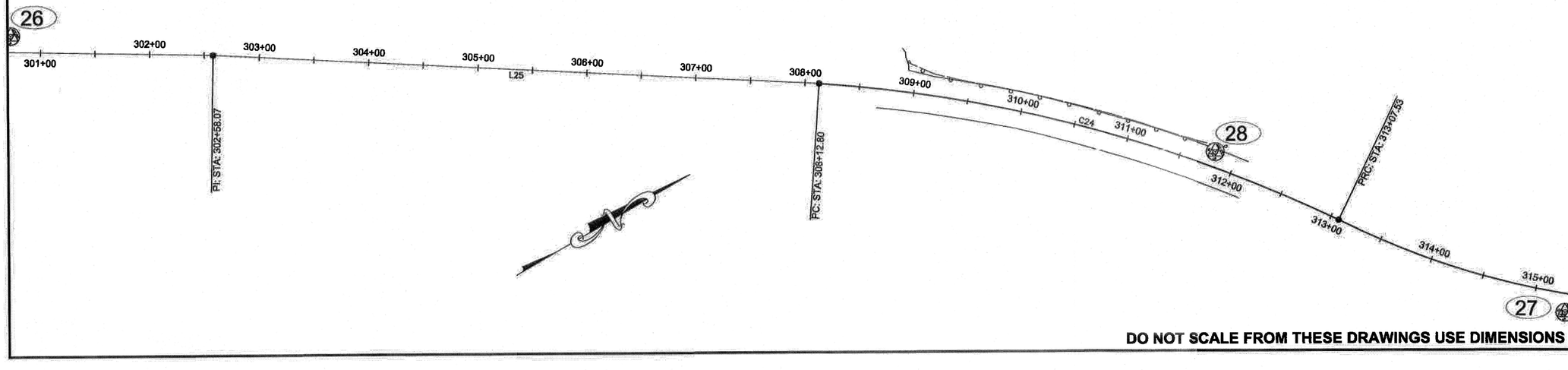

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\SV\C3D\BASEMAPS\CRG_2_KLW_G

PAPOI, JAMES M (DOT)
TAB: A6 Thursday, January 15, 2015 9:54:50 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

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CHECKED BY: D.IGNOTOV

STATE OF ALASKA 49TH
Dan M. Ignotov
No. 11296
REGISTERED PROFESSIONAL LAND SURVEYOR

DESIGNED BY: J.PAPOI

DRAWN BY: J.PAPOI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY: GUARD RAIL IMPROVEMENTS REBID
PROJECT #67832

SURVEY CONTROL

PROJECT DESIGNATION
AC-HHE-0924(020)

STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
A6	35

PATH:Q:\POW\67832\SV\C3D\BASEMAPS\CRG_2_KLW_G

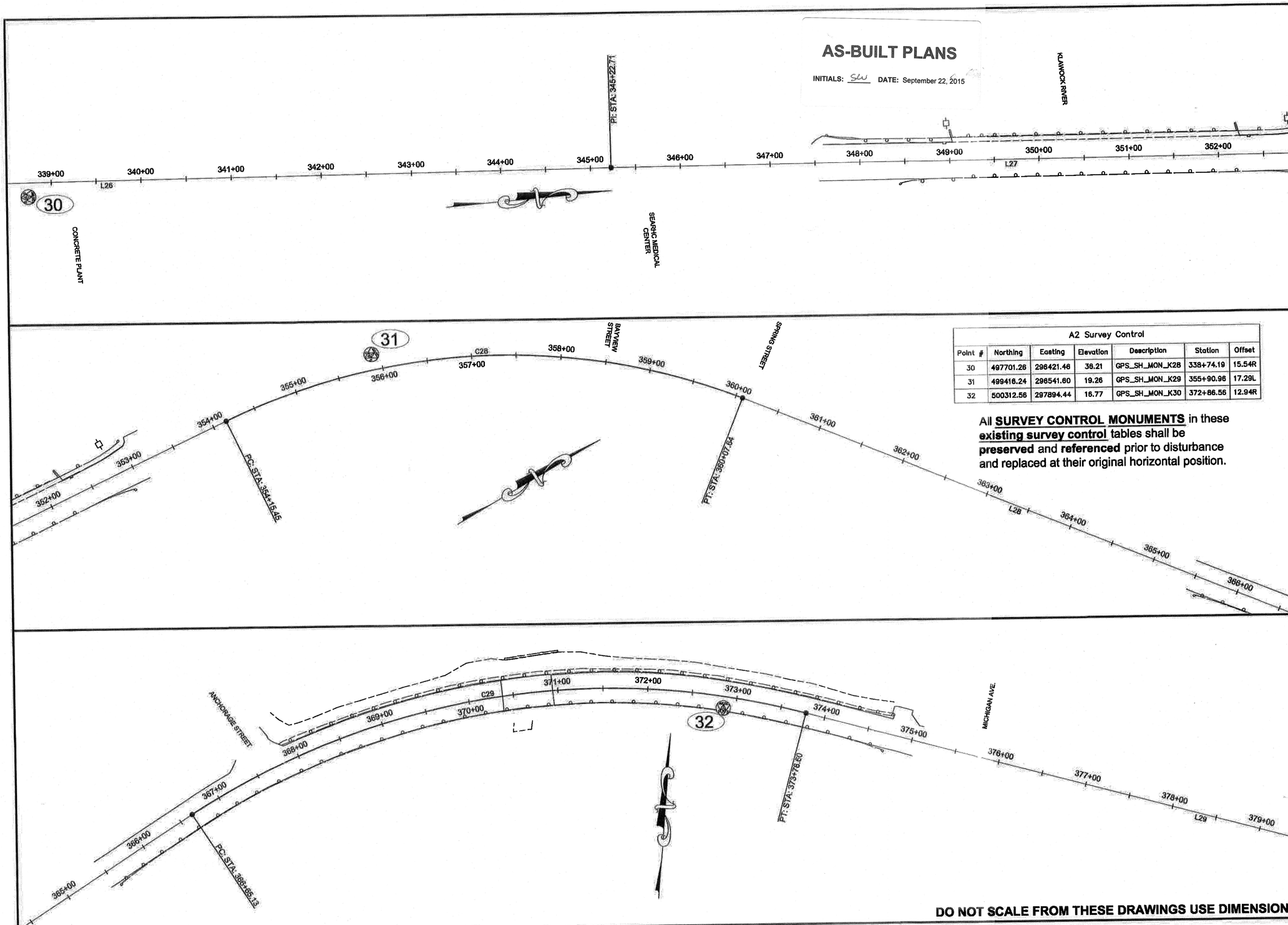
PAPOI, JAMES M (DOT)
TAB: A7 Thursday, January 15, 2015 9:55:42 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION


AS-BUILT PLANS
INITIALS: SW DATE: September 22, 2015

A2 Survey Control						
Point #	Northing	Easting	Elevation	Description	Station	Offset
30	497701.26	296421.46	36.21	GPS_SH_MON_K28	338+74.19	15.54R
31	499416.24	296541.60	19.26	GPS_SH_MON_K29	355+90.96	17.29L
32	500312.56	297894.44	16.77	GPS_SH_MON_K30	372+86.56	12.94R

All **SURVEY CONTROL MONUMENTS** in these **existing survey control** tables shall be **preserved** and **referenced** prior to disturbance and replaced at their original horizontal position.

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.

CHECKED BY: D.IGNOTOV

STATE OF ALASKA 49TH Dan M. Ignotov No. 11296 REGISTERED PROFESSIONAL LAND SURVEYOR

DESIGNED BY: J.PAPOI

DRAWN BY: J.PAPOI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY: GUARD RAIL IMPROVEMENTS REBID
PROJECT #67832

SURVEY CONTROL

PROJECT DESIGNATION
AC-HHE-0924(020)

STATE	YEAR
ALASKA	2014
SHEET NUMBER	TOTAL SHEETS
A7	35

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGN ALIGNMENT TABLE

TAG	STATION	NORTHING	EASTING	DISTANCE	BEARING	STATION	RADIUS	LENGTH	DELTA
L1	10+00.00	472489.13	285462.20	428.76	S84° 03' 00"E	385+22.43			
L2	14+28.76	472444.69	285888.65	744.20	S84° 03' 11"E	385+22.43			
C1	21+72.96	472367.58	286628.84				572.67	196.73	19° 40' 59.0"
L3	23+69.69	472380.88	286824.15	164.28	N76° 15' 50"E	385+22.43			
C2	25+33.97	472419.89	286983.73				572.95	132.45	13° 14' 43.0"
L4	26+66.42	472436.25	287114.87	1961.86	N89° 30' 33"E	385+22.43			
C3	46+28.28	472453.06	289076.66				1446.26	450.31	17° 50' 23.5"
C4	50+78.59	472529.56	289518.58				1237.52	199.80	9° 15' 01.1"
L5	52+78.39	472610.44	289701.04	60.46	N60° 09' 20"E	385+22.43			
C5	53+38.85	472640.53	289753.48				1437.15	558.50	22° 15' 58.0"
L6	58+97.35	473002.24	290174.40	696.01	N38° 14' 41"E	385+22.43			
C6	65+93.36	473548.87	290605.25				1640.85	1336.69	46° 40' 29.6"
L7	79+30.04	474805.91	290936.84	82.96	N7° 57' 48"W	385+22.43			
C7	80+13.00	474888.06	290925.34				1225.56	535.06	25° 00' 52.2"
L8	85+48.06	475383.84	290735.67	84.66	N33° 05' 37"W	385+22.43			
C8	86+32.72	475454.77	290689.44				1637.02	371.53	13° 00' 12.8"
L9	90+04.25	475740.44	290453.15	1619.09	N46° 03' 36"W	385+22.43			
C9	106+23.34	476863.94	289287.30				1142.28	1258.36	63° 07' 05.2"
L10	118+81.70	478020.62	288984.38	1217.18	N16° 49' 58"E	385+22.43			
C10	130+98.88	479185.65	289336.85				1909.77	691.54	20° 44' 50.0"
L11	137+90.42	479869.05	289414.22	2134.06	N3° 54' 52"W	385+22.43			
C11	159+24.48	481998.13	289268.53				2864.66	584.74	11° 41' 43.0"
L12	165+09.22	482581.52	289288.23	1322.68	N7° 47' 32"E	385+22.43			
C12	178+31.90	483891.99	289467.56				1145.92	400.44	20° 01' 19.9"
L13	182+32.35	484290.10	289452.13	361.33	N12° 10' 14"W	385+22.43			
C13	185+93.68	484643.31	289375.95				1154.90	704.77	34° 57' 50.7"
L14	192+98.44	485334.05	289441.85	259.82	N22° 54' 03"E	385+22.43			
C14	195+58.26	485573.40	289542.96				820.65	326.93	22° 49' 30.5"
L15	198+85.19	485891.51	289608.37	169.04	N0° 00' 12"W	385+22.43			
C15	200+54.23	486060.55	289608.36				841.88	300.10	20° 25' 25.2"
L16	203+54.32	486353.67	289664.82	502.08	N21° 06' 51"E	385+22.43			
C16	208+56.41	486822.05	289845.68				2230.49	597.20	15° 20' 26.3"
L17	214+53.61	487344.24	290131.76	329.12	N36° 04' 52"E	385+22.43			
C17	217+82.73	487610.23	290325.58				2732.44	591.04	12° 23' 36.4"
L18	223+73.77	488120.77	290621.09	125.25	N24° 34' 57"E	385+22.43			
C18	224+99.03	488234.67	290673.20				1459.33	176.63	6° 56' 05.1"
L19	226+75.66	488388.90	290759.06	555.60	N33° 01' 15"E	385+22.43			
C19	232+31.25	488854.75	291061.83				5729.58	479.86	4° 47' 55.0"
L20	237+11.11	489267.06	291307.06	717.77	N28° 20' 38"E	385+22.43			
C20	244+28.88	489898.78	291647.83				2862.15	1599.39	32° 01' 02.0"

DESIGN ALIGNMENT TABLE

TAG	STATION	NORTHING	EASTING	DISTANCE	BEARING	STATION	RADIUS	LENGTH	DELTA
L21	260+28.27	491027.60	292751.43	343.00	N60° 21' 40"E	385+22.43			
C21	263+71.27	491197.23	293049.55				954.93	375.60	22° 32' 09.6"
L22	267+46.87	491441.60	293331.59	270.89	N37° 49' 30"E	385+22.43			
C22	270+17.76	491655.57	293497.71				1909.86	615.56	18° 28' 00.5"
L23	276+33.32	492193.73	293791.03	439.27	N19° 21' 29"E	385+22.43			
C23	280+72.59	492608.16	293936.63				2083.48	427.22	11° 44' 54.8"
L24	284+99.81	492993.95	294118.43	1758.26	N31° 06' 24"E	385+22.43			
L25	302+58.07	494499.38	295026.81	554.73	N32° 54' 44"E	385+22.43			
C24	308+12.80	494965.08	295328.22				1307.45	494.73	21° 40' 49.2"
C25	313+07.53	495313.15	295675.64				716.20	691.03	55° 16' 55.9"
C26	319+98.56	495892.44	296001.26				806.06	395.86	28° 08' 17.7"
C27	323+94.42	496269.58	296107.76				1959.76	878.55	25° 41' 07.4"
L26	332+72.97	497102.75	296362.40	1249.73	N4° 09' 20"E	385+22.43			
L27	345+22.71	498349.20	296452.96	892.75	N4° 30' 59"E	385+22.43			
C28	354+15.45	499239.17	296523.26				716.20	592.19	47° 22' 30.1"
L28	360+07.64	499746.75	296794.42	657.49	N52° 07' 59"E	385+22.43			
C29	366+65.13	500150.33	297313.46				850.49	713.47	48° 03' 55.4"
L29	373+78.60	500313.80	297986.64	1143.83	S79° 59' 53"E	385+22.43			

AS-BUILT PLANS

INITIALS: SCJ DATE: September 22, 2015

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\S\V\C3D\BASEMAPS\CRG_2_KLW_C

PAPOI, JAMES M (DOT)
TAB: A8 Thursday, January 15, 2015 9:58:18 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

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.

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CHECKED BY: D.IGNOTOV

STATE OF ALASKA 49TH Dan M. Ignotov No. 11296 REGISTERED PROFESSIONAL LAND SURVEYOR

DESIGNED BY: J.PAPOI

DRAWN BY: J.PAPOI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARD RAIL IMPROVEMENTS
REBID
PROJECT #67832

SURVEY CONTROL

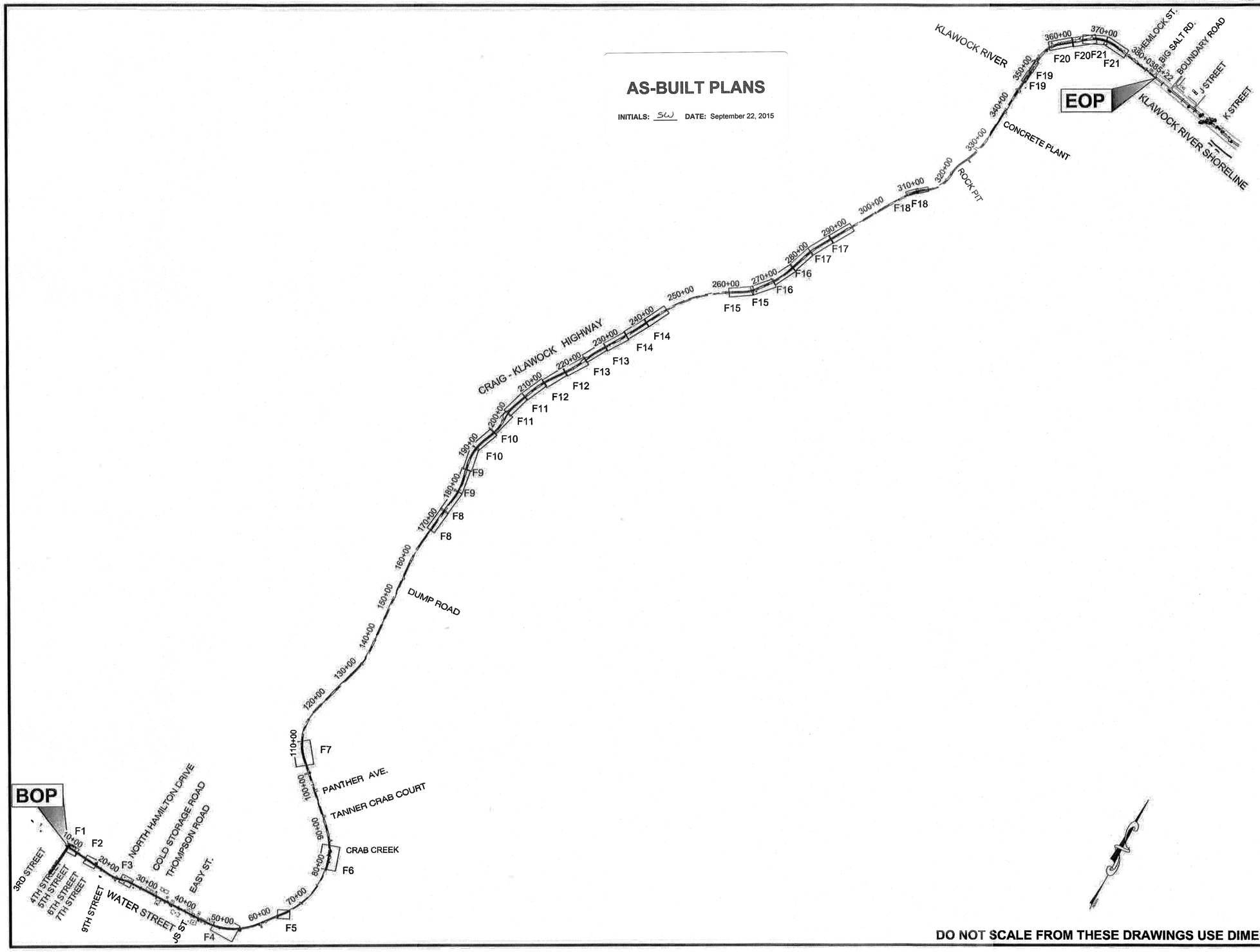
PROJECT DESIGNATION
AC-HHE-0924(020)

STATE	YEAR
ALASKA	2014

SHEET NUMBER	TOTAL SHEETS
A8	35

AS-BUILT PLANS

INITIALS: SW DATE: September 22, 2015



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\EN\C3D

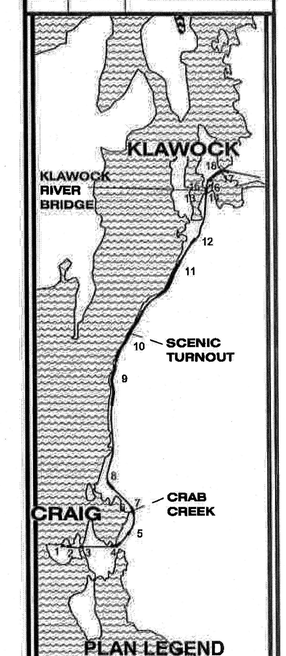
PURVES, NATHAN A (DOT)
TAB: A9

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA 49th Gregory Lockwood CE-11850 REGISTERED PROFESSIONAL ENGINEER 1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

LAYOUT

PROJECT DESIGNATION

AC-HHE-0924(020)

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
A9	36

Addendum #1; Attachment #3

AS-BUILT PLANS

INITIALS: SJ DATE: September 22, 2015

ESTIMATE OF QUANTITIES

ITEM NO	ITEM DESCRIPTION	PAY UNIT	QUANTITY	
201(3B)	Clearing And Grubbing	Lump Sum	All Req'd	$30,000.00
202(1)	Removal Of Structures And Obstructions	Lump Sum	All Req'd	$ 5,000.00
203(6)	Borrow, Type A	Ton	1 600	16.2
301(3)	Aggregate Base Course, Grading D-1	Lump Sum	All Req'd	$16,000.00
401(7)	Asphalt Concrete, Type II, Class B	Lump Sum	All Req'd	$80,000.00
603(21-18)	18 Inch Corrugated Polyethylene Pipe	Linear Foot	40	40
606(1)	W-beam Guardrail	Linear Foot	14 912.5	14,969.4
606(6)	Removing And Disposing Of Guardrail	Linear Foot	9 462	9,650
606(13)	Parallel Guardrail Terminal	Each	12	12
609(7)	Gutter	Linear Foot	200	226.4
618(1)	Seeding	Acre	0 2	.046
640(1)	Mobilization And Demobilization	Lump Sum	All Req'd	$117,800.00
640(4)	Worker Meals and Lodging, or Per Diem	Lump Sum	All Req'd	$ 8,000.00
641(1)	Erosion, Sediment and Pollution Control Administration	Lump Sum	All Req'd	$15,000.00
641(3)	Temporary Erosion , Sediment and Pollution Control	Lump Sum	All Req'd	$13,000.00
641(4)	Temporary Erosion, Sediment and Pollution Control Additives	Contingent Sum	All Req'd	0
641(6)	Withholding	Contingent Sum	All Req'd	0
642(1)	Construction Surveying	Lump Sum	All Req'd	$30,000.00
643(2)	Traffic Maintenance	Lump Sum	All Req'd	$ 66,400.00
643(15)	Flagging	Contingent Sum	All Req'd	$ 55,650.00
643(23)	Traffic Police Adjustment	Contingent Sum	All Req'd	0
643(25)	Traffic Control	Contingent Sum	All Req'd	$11,025.00
644(1)	Field Office	Lump Sum	All Req'd	$10,000.00
646(1)	CPM Scheduling	Lump Sum	All Req'd	$ 5,000.00

Change Order Items

203(20)	Repair Mile 4 Embankment Erosion - Change Order #1	LS	$9,000.00

BASIS OF ESTIMATE

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTORS
201(3B)	CLEARING AND GRUBBING	0 33 ACRES OF C&G WITH 0.33 ACRES OF INVASIVE SPECIES DISPOSAL
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1 STUMP
203(6A)	BORROW, TYPE A	1 7 TON/CY COMPACTED IN-PLACE
301(1)	AGGREGATE BASE COURSE, GRADING D-1	42 CUBIC YARDS COMPACTED IN-PLACE
401(7)	ASPHALT CONCRETE, TYPE II, CLASS B	24 TONS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
Gregory Lockwood
CE-11850
49th
REGISTERED PROFESSIONAL ENGINEER
4/3/15

DESIGNED BY: N. PURVES
DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

POW-
CRAIG-KLAWOCK GUARDRAIL
IMPROVEMENTS REBID
PROJECT #67832

ESTIMATE OF QUANTITIES

PATH: Q:\POW\67832\EN\C3D\B1 ESTIMATE OF QUANTITIES 67832 G-RAIL.DWG
TAB: B1
PURVES, NATHAN A (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AC-HHE-0924(020) 67832	2015	B1	36

AS-BUILT PLANS

INITIALS: GW DATE: September 22, 2015

606 (1) W-BEAM GUARDRAIL SUMMARY

Sect #	START STATION	END STATION	LENGTH	OFFSET		REMARKS
1	10+23.7	11+59.2	~~215.10~~ ~~200.00~~	LT		GUARDRAIL TO RUN APPROX 6.25' DOWN 3RD ST. & APPROX 50 FEET DOWN FOURTH STREET. TYPE II POST INSTALL SEE DETAIL ON G-04.10S
2	15+24.7	~~16+74.7~~ 69.1	~~150.0~~ 144.4	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
4	~~48+95.0~~ 49.1	52+45.0	350.89	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
5	~~64+81.4~~ 63.8	66+51.4	250.86		RT	TYPE II POST INSTALL SEE DETAIL ON G-04.10S
6	~~80+80.0~~ 79.6	83+80.0	~~300.0~~ 301.4	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
8	105+31.1	109+31.1	~~400.0~~ 413.2	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
9	~~168+71.3~~ 62.9	198+33.8	~~2962.5~~ 2970.9	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
10	201+89.6	243+32.1	~~4162.5~~ 4173.1	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
11	~~260+82.0~~ 77.1	292+82.6	~~3280.0~~ 3205.4	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
12	308+91.4	312+66.4	~~375.0~~ 376.1	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
13	~~347+56.0~~ 55.5	348+81.8	~~175.0~~ 126.3	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
14	~~348+68.6~~ 2	348+93.6	25.64		RT	TYPE II POST INSTALL SEE DETAIL ON G-04.10S
15	352+42.3	~~353+04.8~~ 65.1	~~62.5~~ 8	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S
16	352+54.7	~~352+92.2~~ 4	~~37.5~~ 7		RT	TYPE II POST INSTALL SEE DETAIL ON G-04.10S
17	~~358+18.0~~ 12.0	374+93.9	~~1675.0~~ 1668.1		RT	TYPE II POST INSTALL SEE DETAIL ON G-04.10S
18	~~367+89.4~~ 76.6	374+26.6	~~637.5~~ 650.0	LT		TYPE II POST INSTALL SEE DETAIL ON G-04.10S

1. ALL GUARDRAIL INSTALLATION SHALL COMPLY WITH CASE 1 OF STANDARD DRAWING G-10.01 UNLESS NOTED AS ELEVEN FOOT POST ON THE PLAN SHEETS. ELEVEN FOOT POST SECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE LONG POST DETAIL ON SHEET E1.
2. GUARDRAIL POST INSTALLATION IN ACCORDANCE WITH STANDARD DRAWING G-04.1S TYPE I IS ACCEPTABLE ON ALL POST INSTALLATIONS IF ALL POSTS ON THE PROJECT, INCLUDING 11 FOOT POSTS, ARE INSTALLED WITHOUT THE BLOCKOUT INSTALLED AT 2 INCHES BELOW THE TOP OF POST. MIXING BETWEEN TYPE I AND TYPE II INSTALLATIONS WILL NOT BE ALLOWED.

606 (6) REMOVING AND DISPOSING OF GUARDRAIL

START STATION	END STATION	LENGTH	OFFSET		REMARKS
10+23.7	11+59.2	~~195.5~~ 191.5	LT		REMOVE GUARDRAIL AND TERMINALS
15+27.0	17+17.4	~~190.4~~ 191.4	LT		REMOVE GUARDRAIL AND TERMINALS
25+24.6	25+42.6	~~18.0~~ 16.2		RT	REMOVE GUARDRAIL AND TERMINALS
48+95.4	52+91.8	~~396.4~~ 373.9	LT		REMOVE GUARDRAIL AND TERMINALS
63+52.0	66+52.3	~~300.3~~ 302.6		RT	REMOVE GUARDRAIL AND TERMINALS
80+78.8	84+30.6	~~351.8~~ 349.2	LT		REMOVE GUARDRAIL AND TERMINALS
82+82.5	84+54.8	~~172.3~~ 179.8		RT	REMOVE GUARDRAIL AND TERMINALS
105+33.6	109+79.8	~~446.2~~ 455.1	LT		REMOVE GUARDRAIL AND TERMINALS
185+76.5	199+71.9	~~1395.4~~ 1412.2	LT		REMOVE GUARDRAIL AND TERMINALS
201+72.8	228+04.8	~~2632.0~~ 2655.1	LT		REMOVE GUARDRAIL AND TERMINALS
279+78.0	292+83.1	~~1306.1~~ 1311.3	LT		REMOVE GUARDRAIL AND TERMINALS
308+91.4	311+88.7	~~297.3~~ 305.5	LT		REMOVE GUARDRAIL AND TERMINALS
347+62.7	348+61.8	~~119.1~~ 121.5	LT		REMOVE GUARDRAIL AND TERMINALS
348+68.9	348+93.6	~~24.7~~ 53.1		RT	REMOVE GUARDRAIL AND TERMINALS
352+42.3	352+99.2	~~56.9~~ 58.9	LT		REMOVE GUARDRAIL AND TERMINALS
352+54.7	352+93.1	~~38.4~~ 39.7		RT	REMOVE GUARDRAIL AND TERMINALS
365+55.4	374+72.5	~~917.1~~ 906.4		RT	REMOVE GUARDRAIL AND TERMINALS
367+89.1	374+24.1	~~635.0~~ 698.2	LT		REMOVE GUARDRAIL AND TERMINALS

606 (13) PARALLEL TERMINAL SUMMARY

Sect #	BEGIN STATION	OFFSET		REMARKS
2	16+~~74.7~~ 69.1	LT		50 FOOT TERMINAL
4	52+45.0	LT		50 FOOT TERMINAL
5	64+~~81.4~~ 80.8		RT	50 FOOT TERMINAL
6	83+80.0	LT		50 FOOT TERMINAL
8	109+31.1	LT		50 FOOT TERMINAL
9	198+33.8	LT		50 FOOT TERMINAL
10	243+32.1	LT		50 FOOT TERMINAL
11	292+82.6	LT		50 FOOT TERMINAL
12	312+66.4	LT		50 FOOT TERMINAL
14	348+68.~~6~~ 2		RT	50 FOOT TERMINAL
17	358+~~18.0~~ 12.0		RT	50 FOOT TERMINAL
18	374+26.6	LT		50 FOOT TERMINAL

609 (7) GUTTER, TYPE I SUMMARY

BEGIN STATION	END STATION	OFFSET		REMARKS
~~15+20.5~~ 15+22	~~17+20.5~~ 17+45	LT		

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. LOCKWOOD

STATE OF ALASKA · 49th · Gregory Lockwood · CE-11850 · REGISTERED PROFESSIONAL ENGINEER

1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

POW-
CRAIG-KLAWOCK GUARDRAIL
IMPROVEMENTS REBID
PROJECT #67832

SUMMARY TABLES

PATH: Q:\POW\67832\EN\C3D\D1 SUMMARY TABLE 67832 G-RAIL.DWG

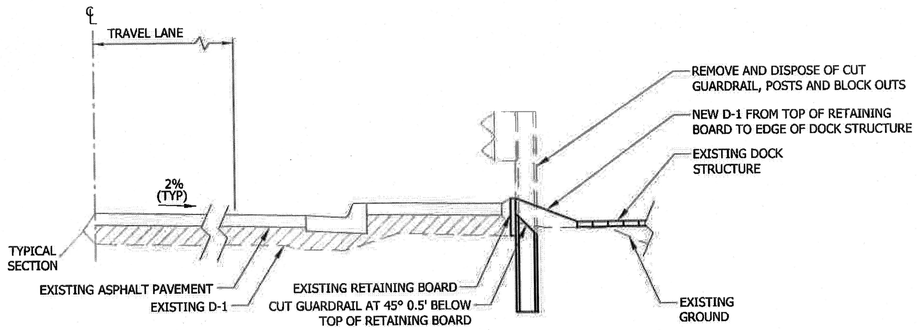
TAB: D1

PURVES, NATHAN A (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AC-HHE-0924(020) 67832	2015	D1	36

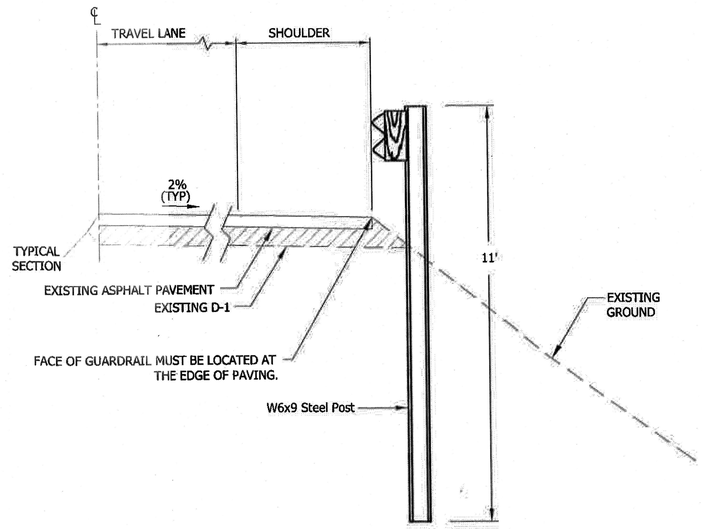
AS-BUILT PLANS

INITIALS: SCW DATE: September 22, 2015



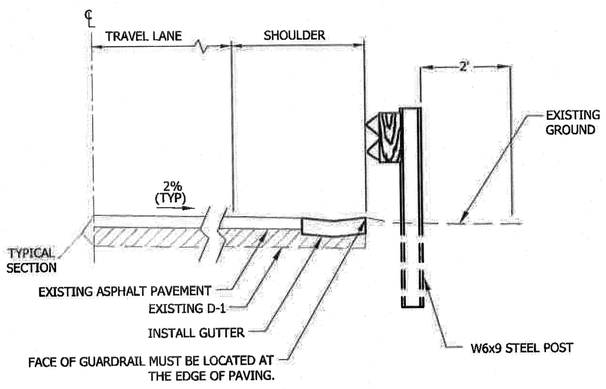
GUARDRAIL CUTTING DETAIL

CUT GUARDRAIL POST AT 45° ANGLE 0.5' BELOW THE TOP EDGE OF THE EXISTING RETAINING BOARD. FILL AND COMPACT D-1 FROM TOP BACK OF RETAINING BOARD TO TOP BACK OF DOCK DECKING.



LONG POST GUARDRAIL DETAIL

REFER TO PLANS FOR LOCATIONS TO INSTALL LONG POSTS. ALL HARDWARE AND GUARDRAIL ELEMENTS ARE IDENTICAL TO STANDARD GUARDRAIL DRAWINGS WITH THE EXCEPTION OF USING LONGER POSTS.



GUTTER AND GUARDRAIL DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
49th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES
DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

POW-
CRAIG-KLAWOCK GUARDRAIL
IMPROVEMENTS REBID
PROJECT #67832

DETAILS

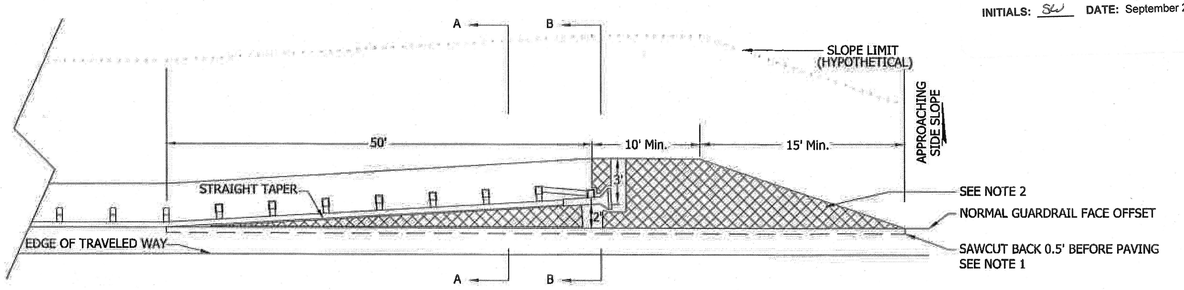
PATH: Q:\POW\67832\EN\C3D\E1-E2 DETAIL SHEETS 67832 G-RAIL.DWG
TAB: E1
PURVES, NATHAN A (DOT)

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AC-HHE-0924(020) 67832	2015	E1	36

AS-BUILT PLANS

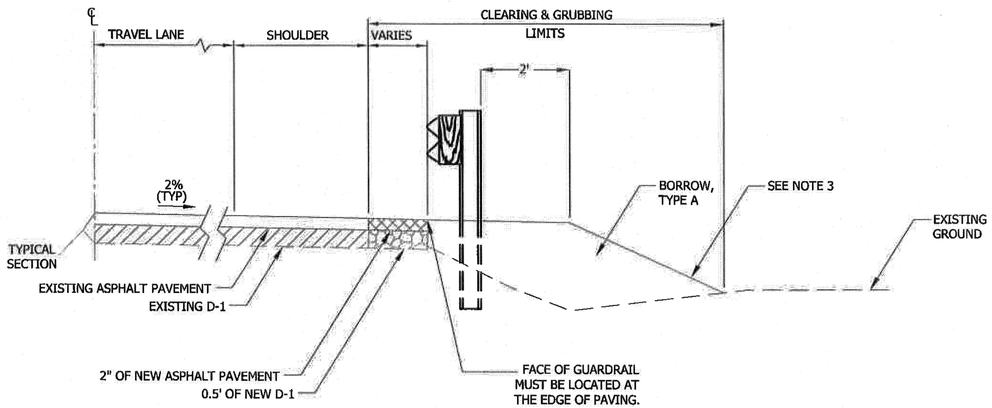
INITIALS: SW DATE: September 22, 2015



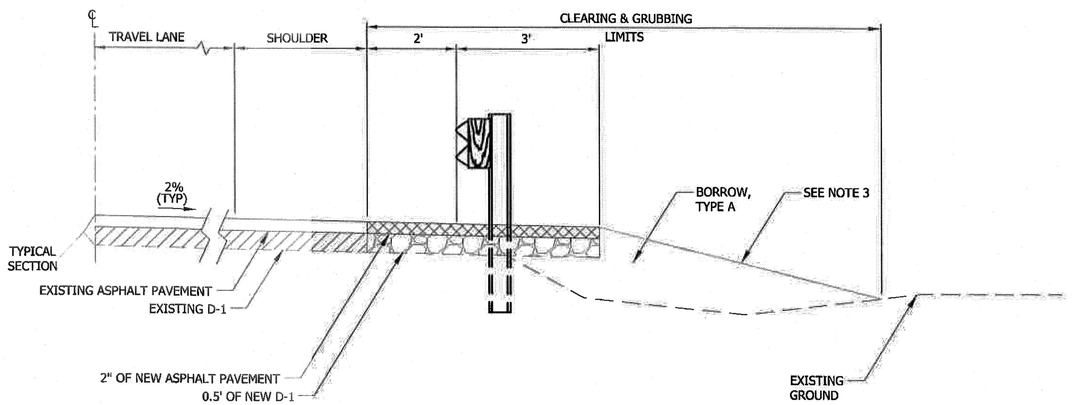
PARALLEL GUARDRAIL TERMINAL DETAIL

NOTES:

1. AFTER BASE IS PREPARED PRIOR TO PAVING, SAW CUT BACK INTO EXISTING SHOULDER 0.5 FEET. COVER ENTIRE JOINT AREA WITH A BAND, $\frac{1}{8}$" THICK, OF POLYMERIZED BITUMINOUS JOINT ADHESIVE. THE MODIFIED JOINT ADHESIVE MATERIALS SHALL BE CRAFCO PAVEMENT JOINT ADHESIVE No. 34524, DEERY COLD JOINT ADHESIVE, OR AN APPROVED EQUAL. THE TEMPERATURE AND APPLICATION METHOD OF THE JOINT ADHESIVE SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. AVOID ANY APPLICATION OF JOINT ADHESIVE TO THE PAVEMENT SURFACE.
2. CONSTRUCT THE HATCHED AREAS TO MATCH THE SLOPE OF THE ADJACENT SHOULDER TO A MAXIMUM OF SLOPE OF 10:1. MAINTAIN 10:1 FOR STEEPER SHOULDERS. MATCH THE SLOPE WHEN THE SHOULDER SLOPES TOWARD THE ROAD AS WELL AS AWAY FORM THE ROAD.
3. MAKE THE SIDE SLOPE MATCH THE APPROACHING SIDE SLOPE EXCEPT WHERE IT IS FLATTER THAN 4:1. IN THAT CASE, THE SLOPE MAY BE STEEPENED TO 4:1.
4. ATTACH A FLEXIBLE MARKER TO THE FIRST POINT (WHERE THE FLARE BEGINS) AND THE END POST OF EACH TERMINAL.
5. THE MAXIMUM ALLOWABLE HEIGHT FOR FOUNDATION TUBES OR OTHER STEEL COMPONENTS OF TERMINAL POST BREAKAWAY SYSTEMS IS 4 INCHES ABOVE THE SURROUNDING GRADE.
6. SEE STANDARD DRAWING G-20.11 FOR OTHER DETAILS NOT SHOWN.



SECTION A-A



SECTION B-B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

STATE OF ALASKA 49th Gregory Lockwood CE-11850 REGISTERED PROFESSIONAL ENGINEER 1/15/15

POW-
CRAIG-KLAWOCK GUARDRAIL
IMPROVEMENTS REBID
PROJECT #67832

DESIGNED BY: N. PURVES
DRAWN BY: N. PURVES

DETAILS

PATH: Q:\POW\67832\EN\C3D\E1-E2 DETAIL SHEETS 67832 G-RAIL.DWG
TAB: E2
PURVES, NATHAN A (DOT)

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AC-HHE-0924(020) 67832	2015	E2	36

JT BROWN BLDG

DOWNSTREAM END ANCHOR

DOWNSTREAM END ANCHOR

DOCKSIDE CAFE

THIRD STREET

FOURTH STREET

5' RADIUS

8' RADIUS

SECTION 1

10+00

10+50

11+00

11+50

12+00

12+50

FOURTH STREET

0 20' 40'

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

SECTION 1 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 10+23.7 TO STA 11+59.2.
2. INSTALL NEW GUARDRAIL STA 10+23.7 TO STA 11+59.2.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.

AS-BUILT PLANS

INITIALS: SLW DATE: September 22, 2015

PATH: Q:\POW\67832\EN\C3D

PURVES, NATHAN A (DOT)

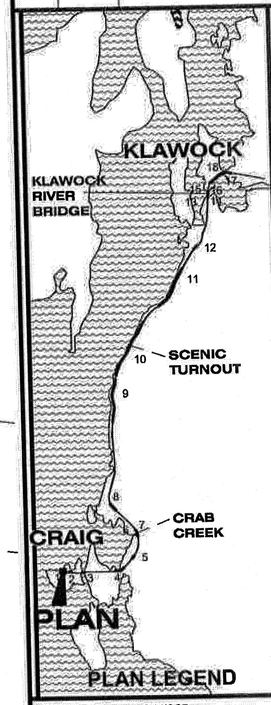
TAB: F1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
19th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/16

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 1

PROJECT DESIGNATION
AC-HHE-0924(020)

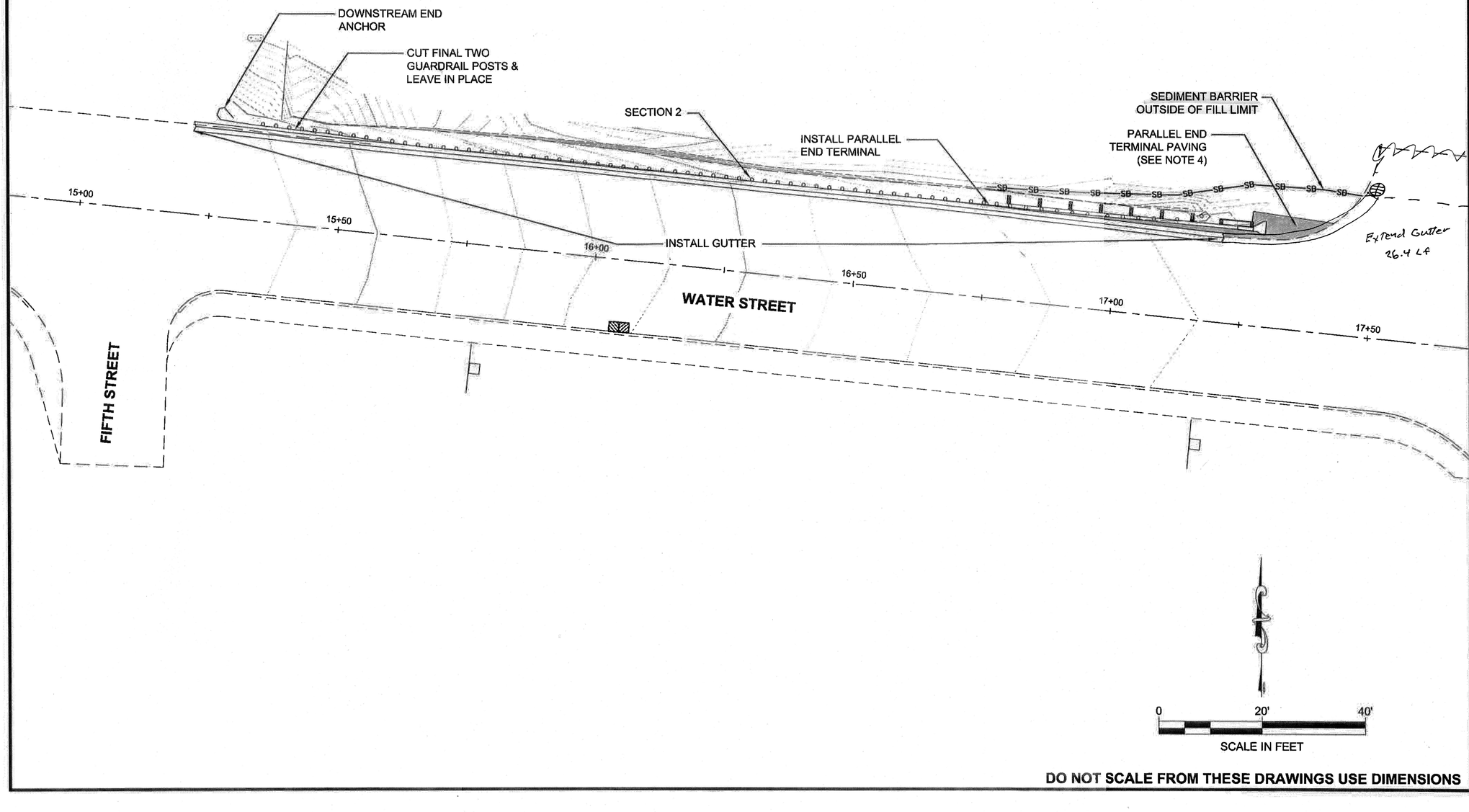
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F1	36

SECTION 2 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 15+27.0 TO STA 17+17.4.
2. REPLACE WITH NEW GUARDRAIL STA 15+24.7 TO STA 16+74.7.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT TOP BACK OF GUTTER.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.
5. INSTALL GUTTER FROM STA.15+20.5 TO STA. 17+20.5.

AS-BUILT PLANS

INITIALS: JCW DATE: September 22, 2015



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\ENIC3D

PURVES, NATHAN A (DOT)

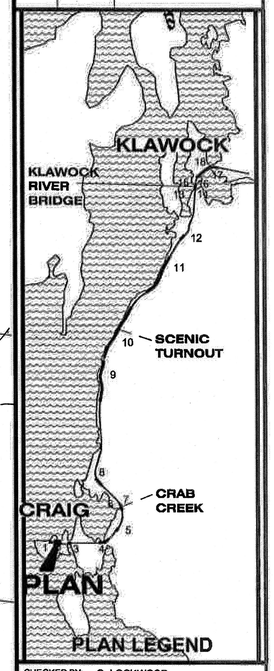
TAB: F2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
49th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 2

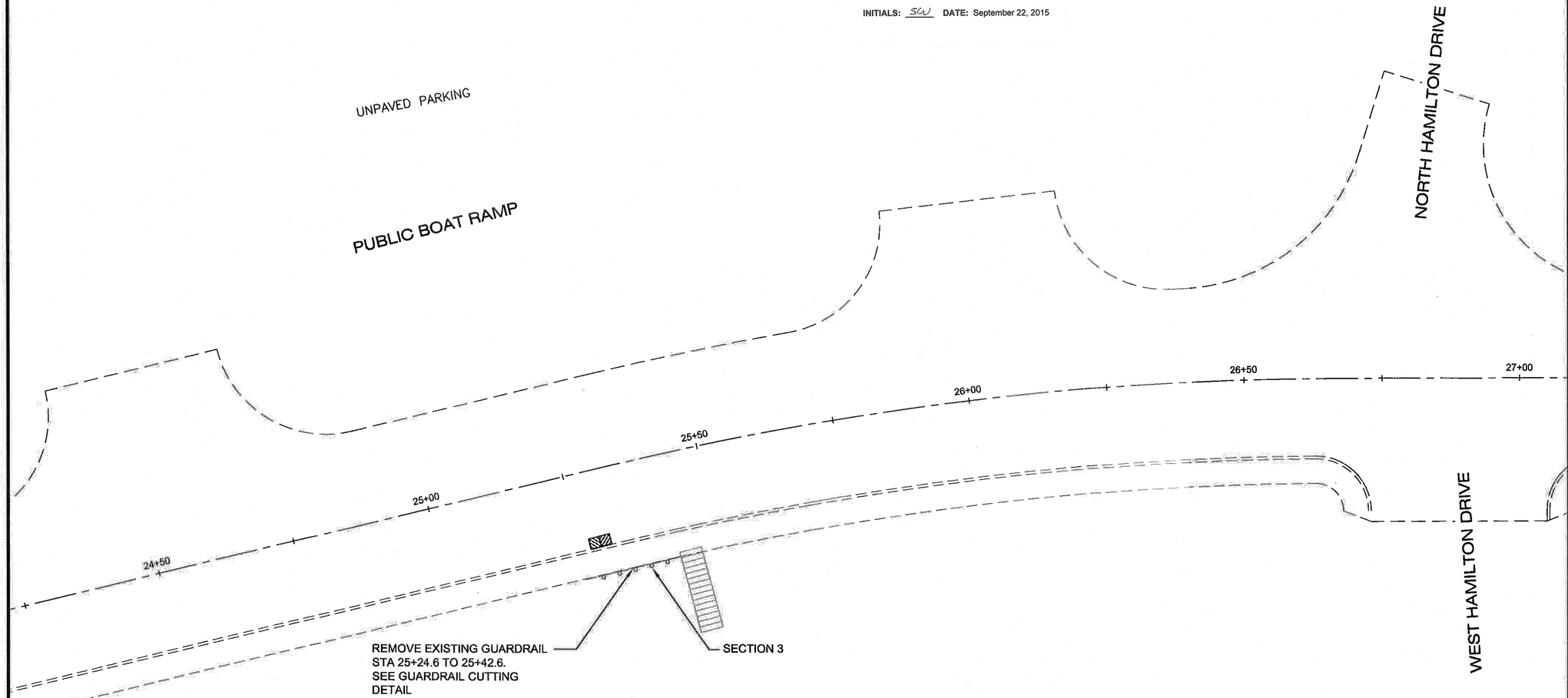
PROJECT DESIGNATION

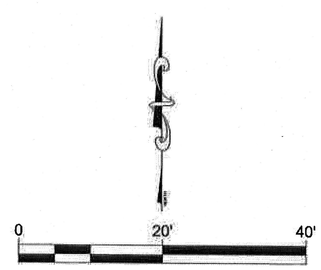
AC-HHE-0924(020)

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F2	36

AS-BUILT PLANS

INITIALS: SCW DATE: September 22, 2015





SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\EN\C3D

PURVES, NATHAN A (DOT)

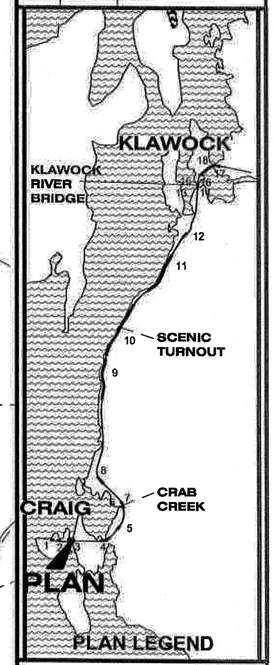
TAB: F3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
49th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 3

PROJECT DESIGNATION

AC-HHE-0924(020)

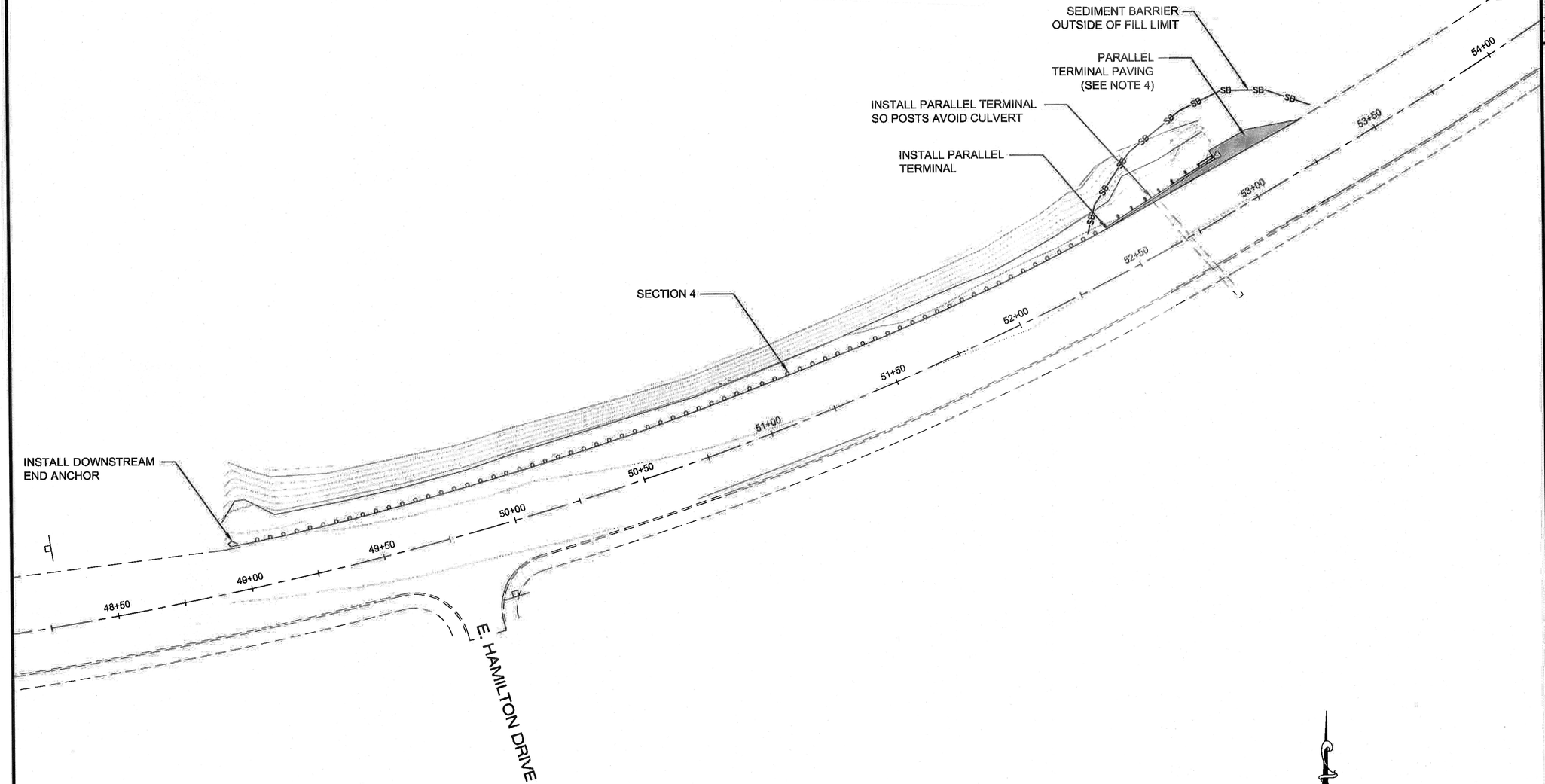
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F3	36

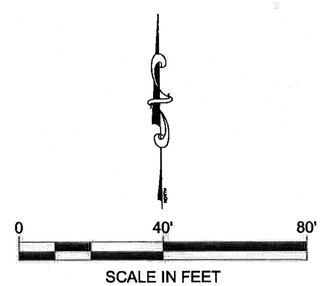
AS-BUILT PLANS

INITIALS: SCJ DATE: September 22, 2015

SECTION 4 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 48+95.4 TO STA 52+91.8.
2. INSTALL NEW GUARDRAIL STA 48+95.0 TO STA 52+45.0
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAIL ON SHEET E2.





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PATH: Q:\POW\67832\EN\C3D

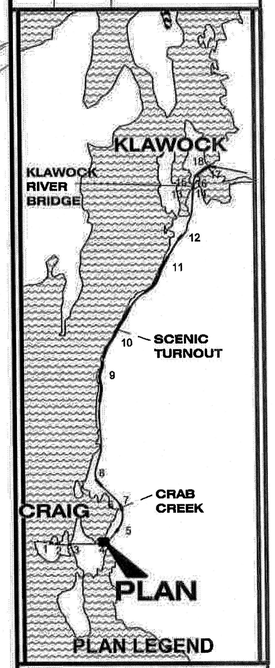
PURVES, NATHAN A (DOT)

TAB: F4

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA 49th Gregory Lockwood CE-11850 REGISTERED PROFESSIONAL ENGINEER 1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 4

PROJECT DESIGNATION

AC-HHE-0924(020)

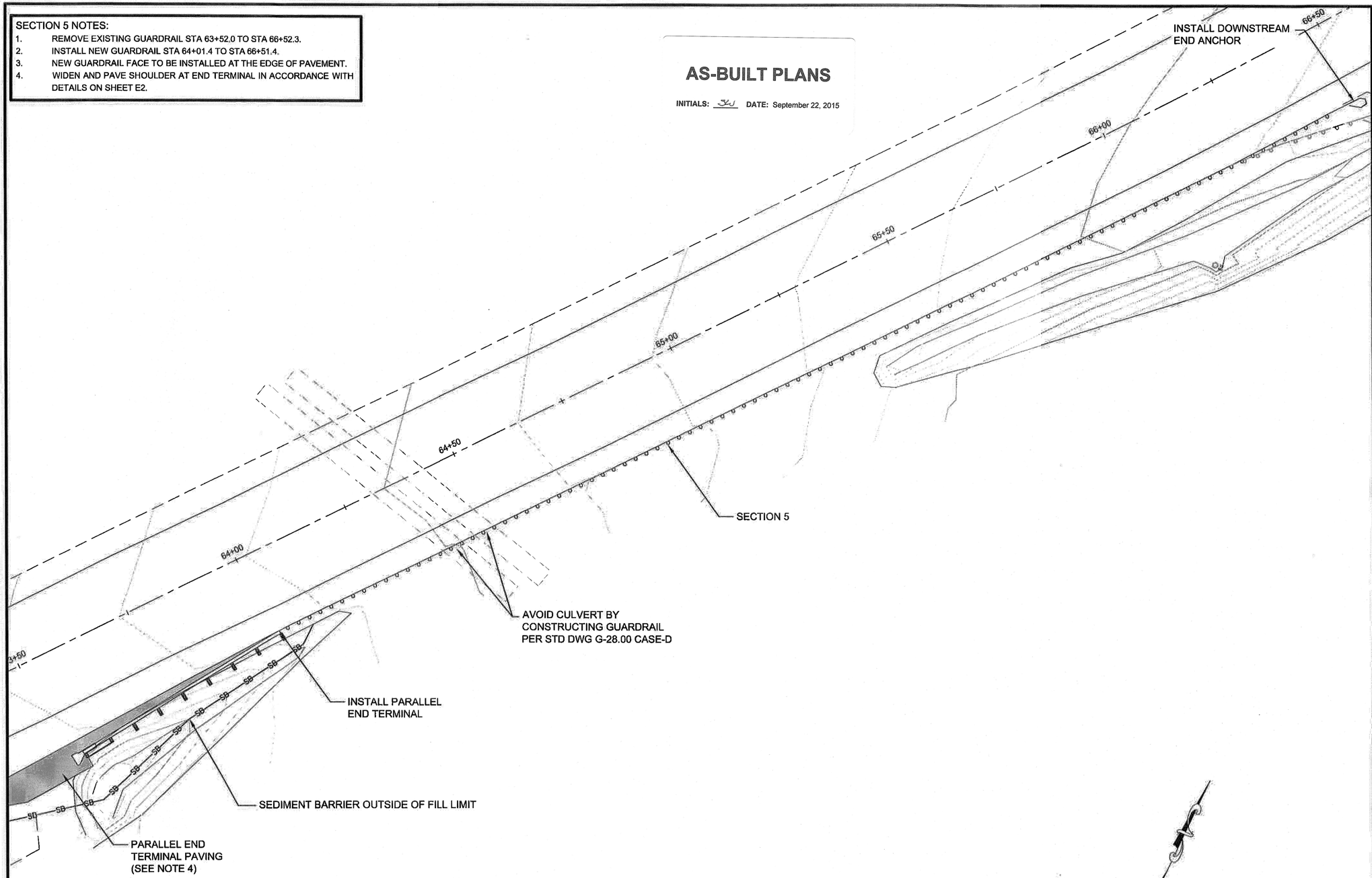
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F4	36

SECTION 5 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 63+52.0 TO STA 66+52.3.
2. INSTALL NEW GUARDRAIL STA 64+01.4 TO STA 66+51.4.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.

AS-BUILT PLANS

INITIALS: JU DATE: September 22, 2015



SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\EN\C3D

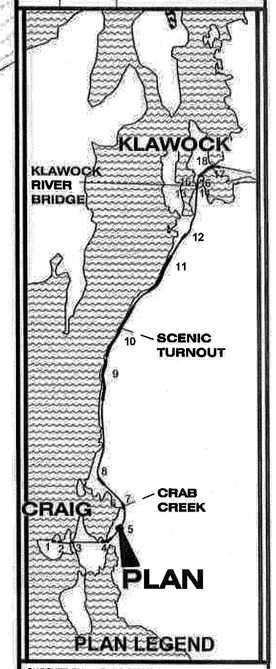
PURVES, NATHAN A (DOT)
TAB: F5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
19th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 5

PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F5	36

AS-BUILT PLANS

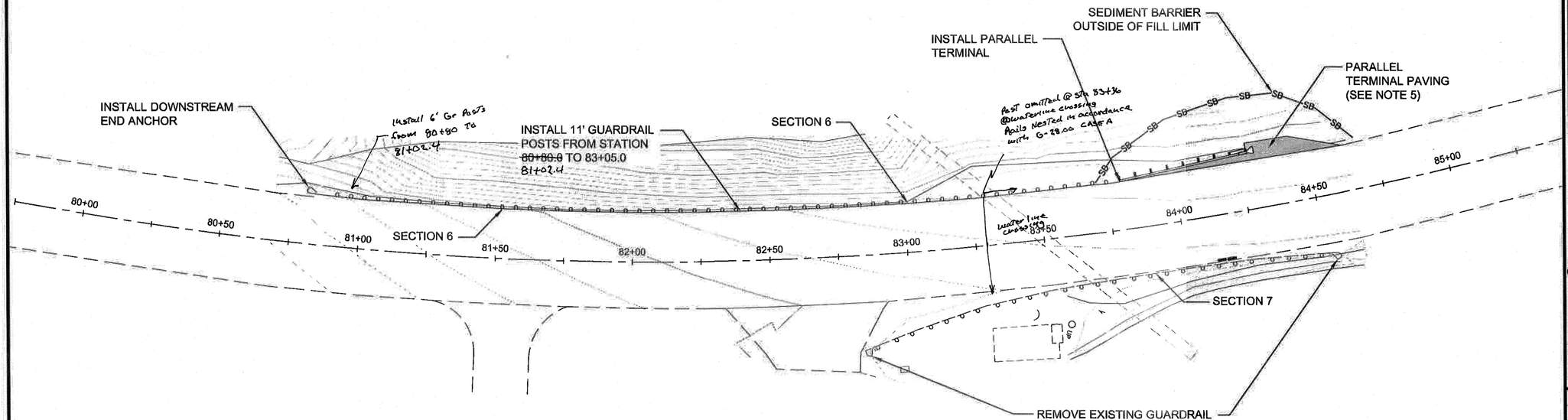
INITIALS: SCV DATE: September 22, 2015

SECTION 6 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 80+78.8 TO STA 84+30.6.
2. INSTALL NEW GUARDRAIL WITH 11' POSTS FROM STA 80+80.0 TO STA 83+05.0.
3. INSTALL NEW GUARDRAIL WITH 6' POSTS FROM 83+05.0 TO STA 83+80.0
4. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
5. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.

SECTION 7 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 82+82.5 TO 84+54.8.



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PATH:Q:\POW\67832\EN\C3D

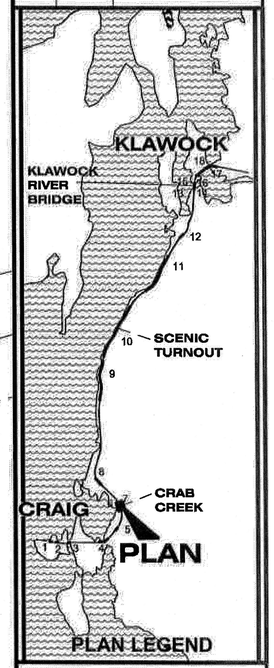
PURVES, NATHAN A (DOT)
TAB: F6

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
9th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTIONS 6 & 7

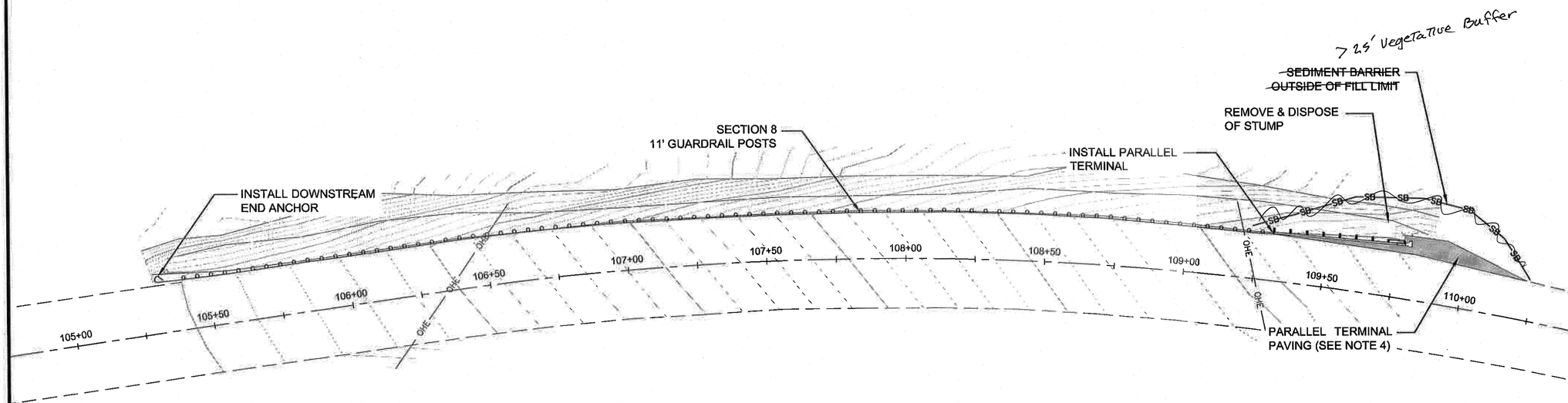
PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F6	36

AS-BUILT PLANS

INITIALS: SW DATE: September 22, 2015

SECTION 8 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 105+33.6 TO STA 109+79.8.
2. INSTALL NEW GUARDRAIL STA 105+31.1 TO STA 109+31.1.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.
5. INSTALL 11' GUARDRAIL POSTS IN SECTION 8.





SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\EN\C3D

PURVES, NATHAN A (DOT)

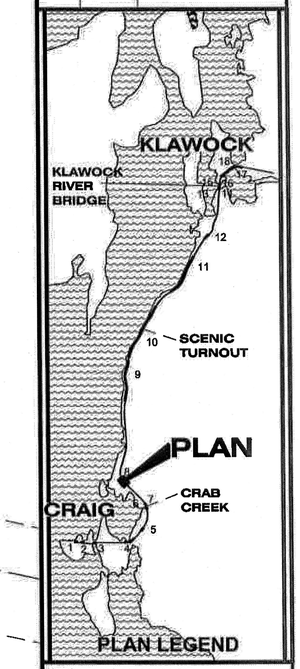
TAB: F7

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
9th
Gregory Lockwood
CE-11950
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 8

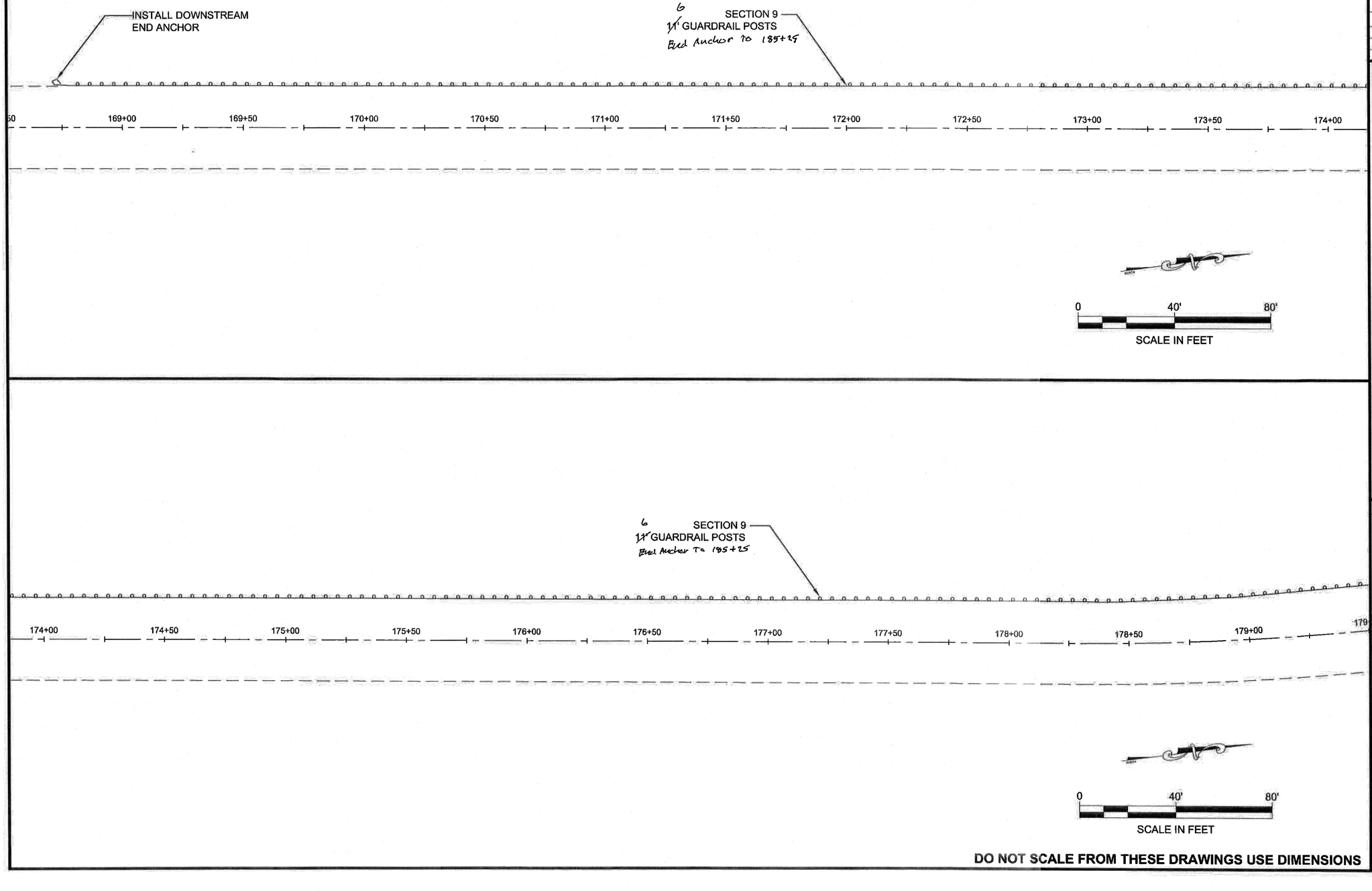
PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F7	36

AS-BUILT PLANS

INITIALS: SKJ DATE: September 22, 2015

SECTION 9 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 185+76.5 TO STA 199+71.9.
2. INSTALL NEW GUARDRAIL STA 168+71.3 TO STA 198+33.8.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.
5. INSTALL 11' GUARDRAIL POSTS IN SECTION 9.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\EN\C3D

PURVES, NATHAN A (DOT)

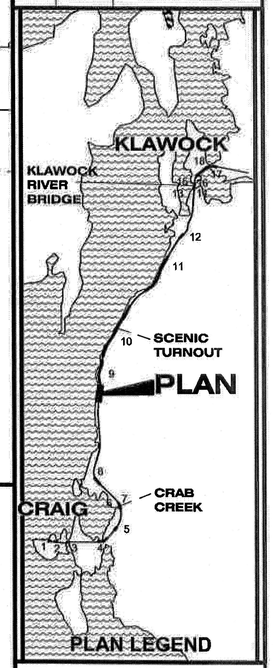
TAB: F8

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
49th
Gregory Lockwood
CE-11850
PROFESSIONAL ENGINEER
9/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY: GUARDRAIL IMPROVEMENT REBID
PROJECT #67832

SECTION 9

PROJECT DESIGNATION

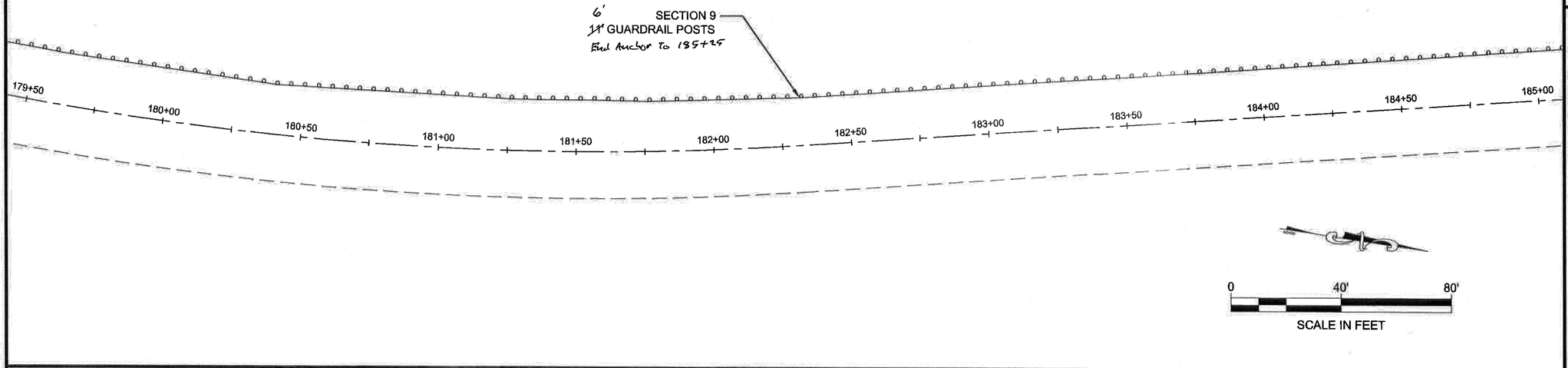
AC-HHE-0924(020)

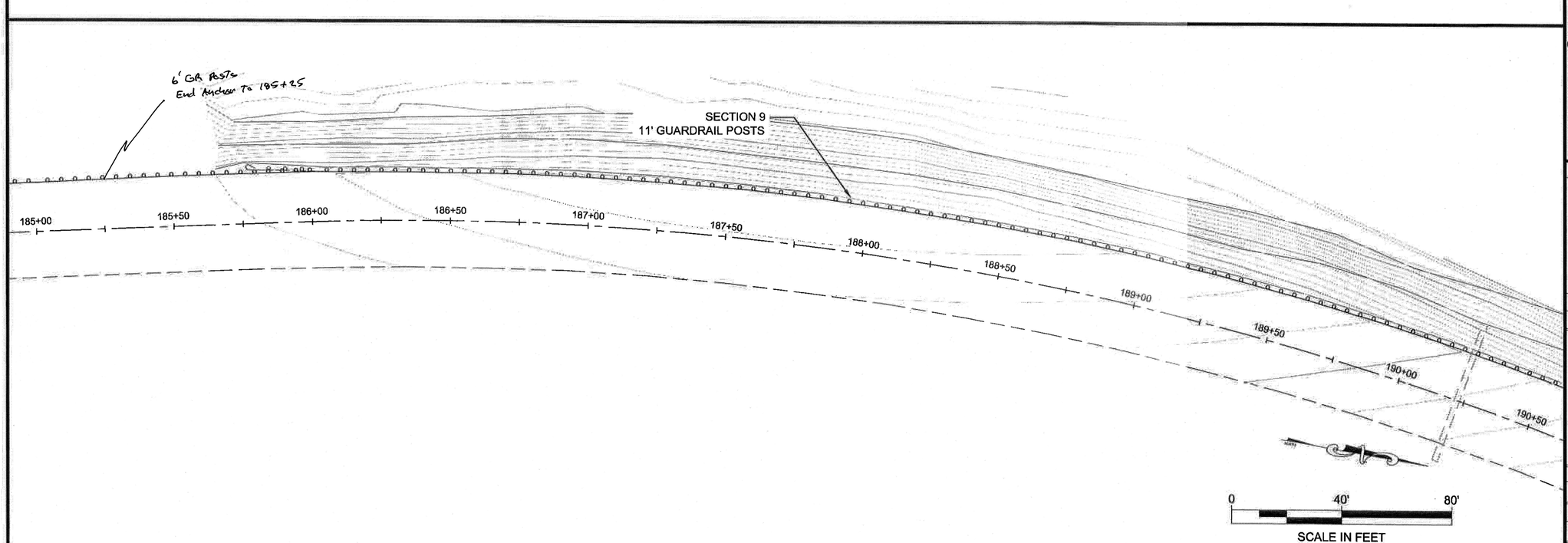
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F8	36

AS-BUILT PLANS

INITIALS: SGJ DATE: September 22, 2015

SECTION 9 NOTES:
1. REMOVE EXISTING GUARDRAIL STA 185+76.5 TO STA 199+71.9.
2. INSTALL NEW GUARDRAIL STA 168+71.3 TO STA 198+33.8.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.
5. INSTALL 11' GUARDRAIL POSTS IN SECTION 9.





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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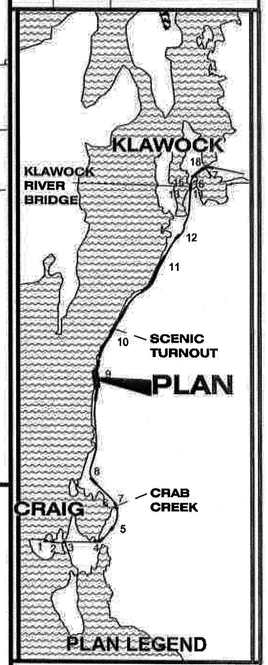
PURVES, NATHAN A (DOT)
TAB: F9

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
9th
Gregory Lockwood
CE-11650
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 9

PROJECT DESIGNATION
AC-HHE-0924(020)

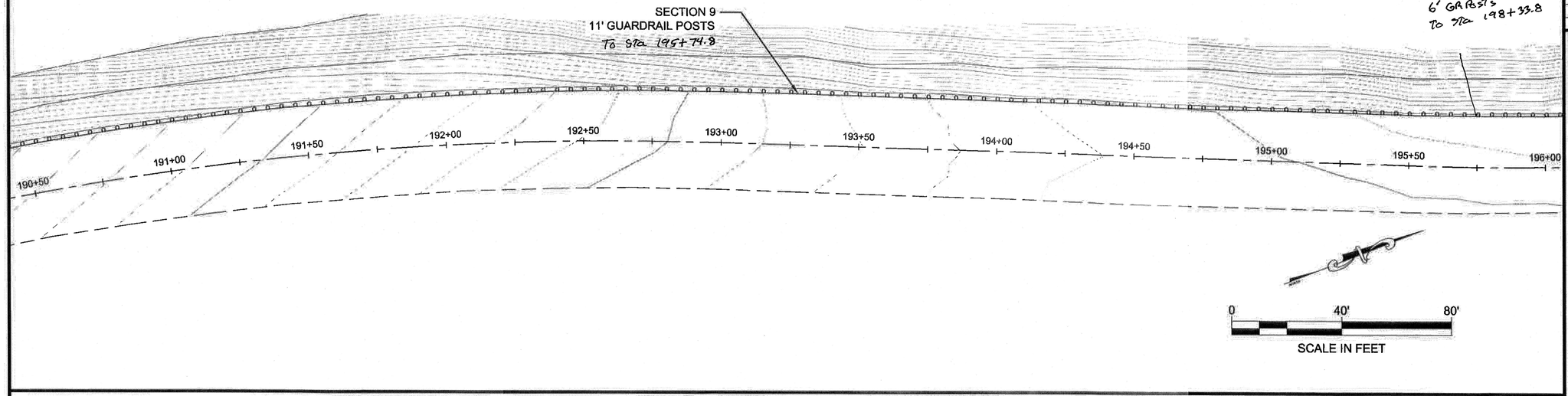
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F9	36

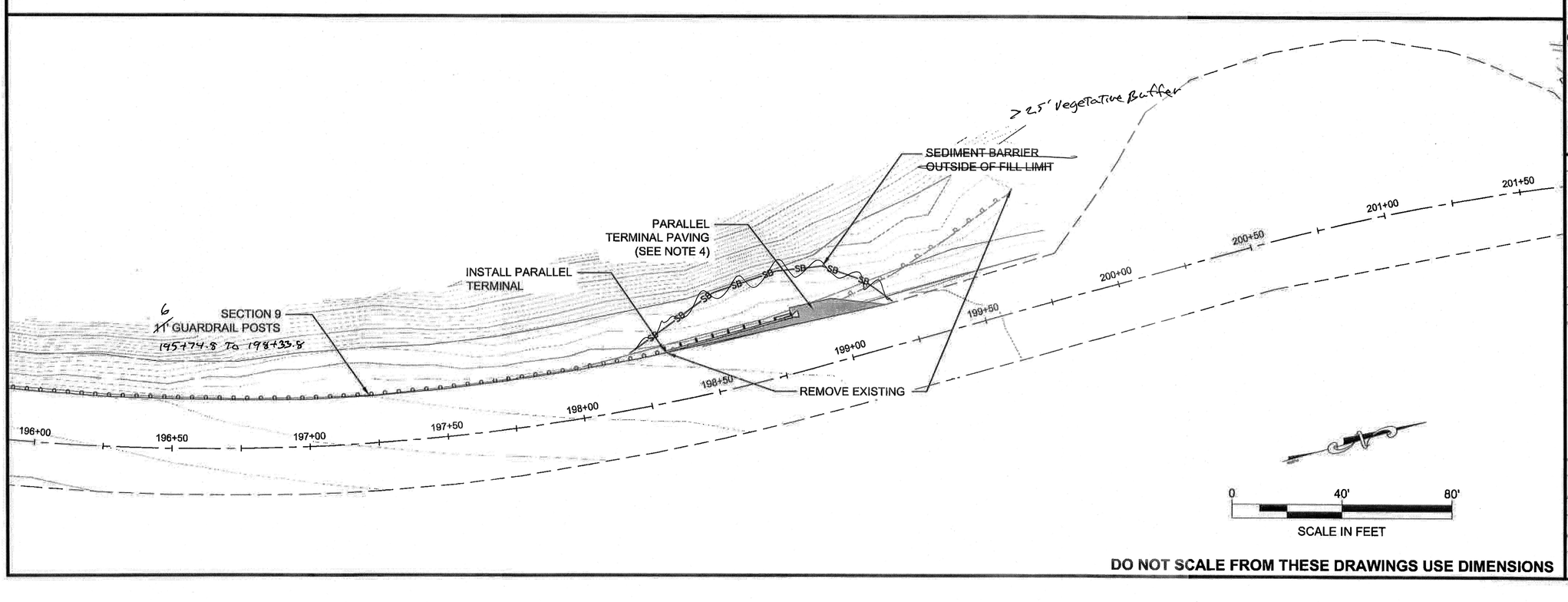
AS-BUILT PLANS

INITIALS: SLJ DATE: September 22, 2015

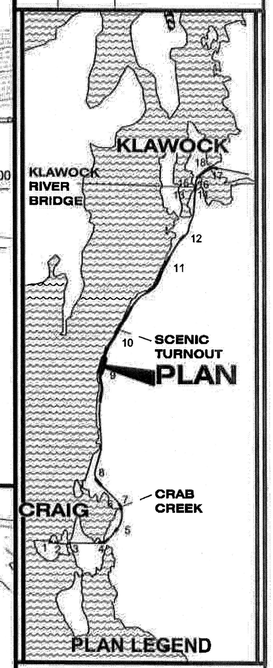
SECTION 9 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 185+76.5 TO STA 199+71.9.
2. INSTALL NEW GUARDRAIL STA 168+71.3 TO STA 198+33.8.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.
5. INSTALL 11' GUARDRAIL POSTS IN SECTION 9.





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



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PURVES, NATHAN A (DOT)
TAB: F10

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
Gregory Lockwood
CE-11850
PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 9

PROJECT DESIGNATION
AC-HHE-0924(020)

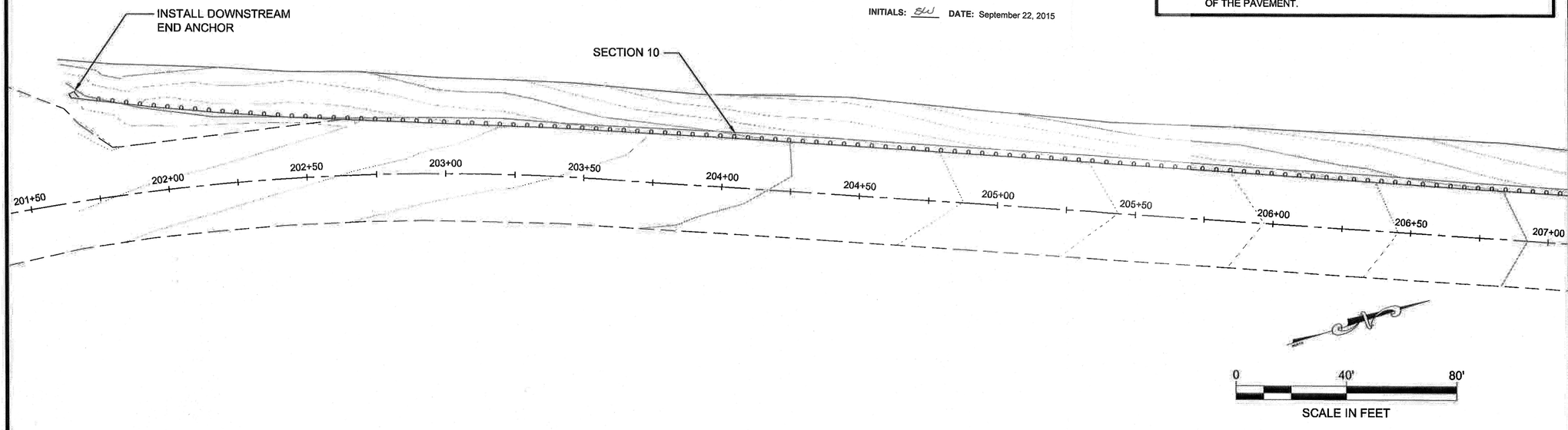
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F10	36

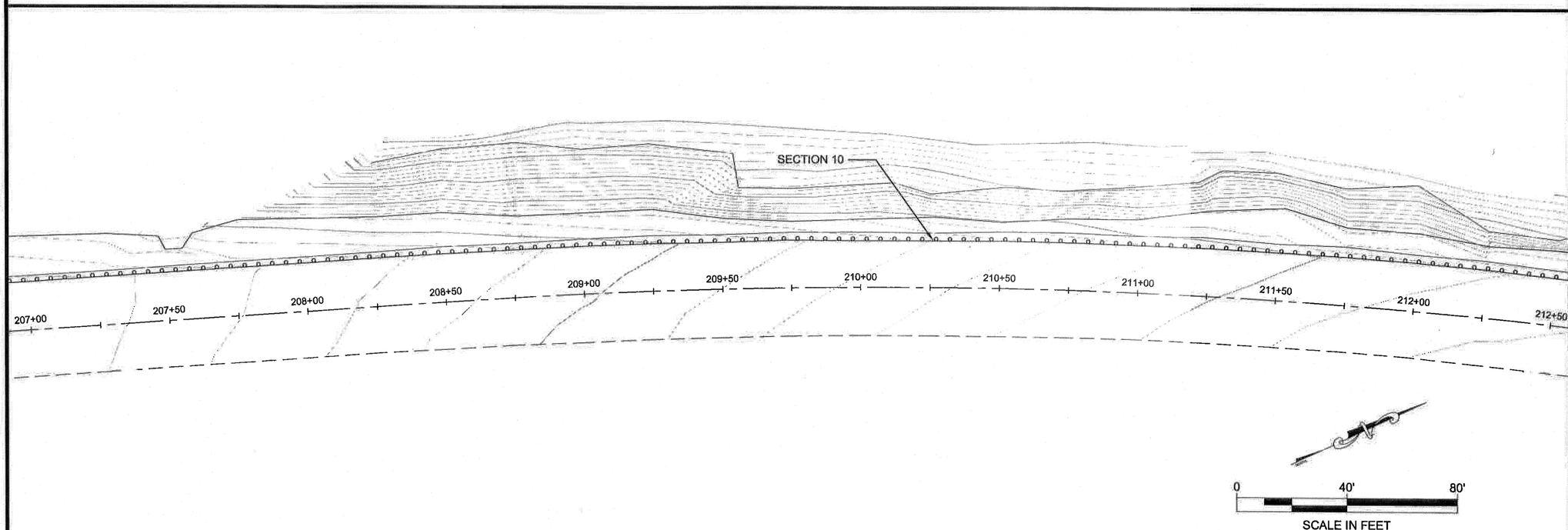
AS-BUILT PLANS

INITIALS: BW DATE: September 22, 2015

SECTION 10 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 201+72.8 TO STA 228+04.8.
2. INSTALL NEW GUARDRAIL STA 201+69.6 TO STA 243+32.1.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. INSTALL END TREATMENT WITH 2 FOOT OFFSET.
5. FILL SHOULDER WITH D-1 TO LEVEL THE SHOULDER WITH THE EDGE OF THE PAVEMENT.





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PURVES, NATHAN A (DOT)

TAB: F11

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

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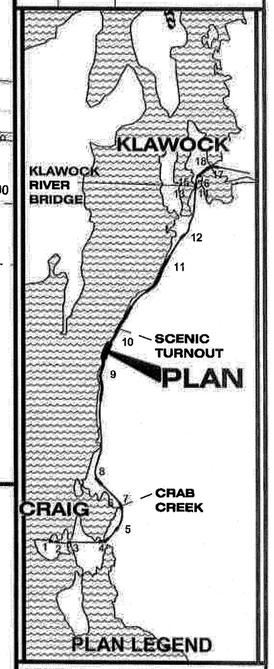


CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
9th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 10

PROJECT DESIGNATION

AC-HHE-0924(020)

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F11	36

AS-BUILT PLANS

INITIALS: SW DATE: September 22, 2015

CO #1
Re-Built Embankment
Slope Flattening with shot Rock
Armour with Class II Rip Rap
Begin Repair @ Sta 214+38.1

SECTION 10

AVOID CULVERT BY
CONSTRUCTING GUARDRAIL
PER STD DWG G-28.00

End Repair @ Sta 216+78.9

212+50 213+00 213+50 214+00 214+50 215+00 215+50 216+00 216+50 217+00 217+50 218+00

0 40' 80'

SCALE IN FEET

SECTION 10 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 201+72.8 TO STA 228+04.8.
2. INSTALL NEW GUARDRAIL STA 201+69.6 TO STA 243+32.1.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.

222+13 To 224+80
old Posts in Turnout not
removed - cut off 6" below
Grade

SECTION 10

100' RADIUS

100' RADIUS

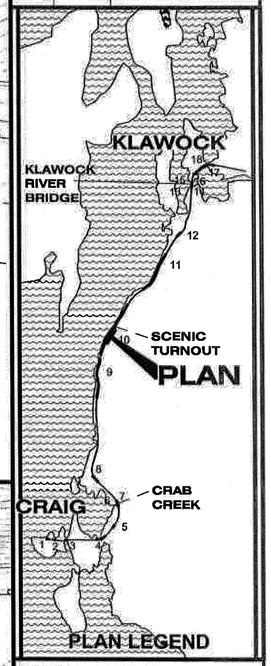
SCENIC TURNOUT

218+00 218+50 219+00 219+50 220+00 220+50 221+00 221+50 222+00 222+50 223+00 223+50

0 40' 80'

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN LEGEND

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PURVES, NATHAN A (DOT)
TAB: F12

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: G, LOCKWOOD

STATE OF ALASKA
19th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N, PURVES

DRAWN BY: N, PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

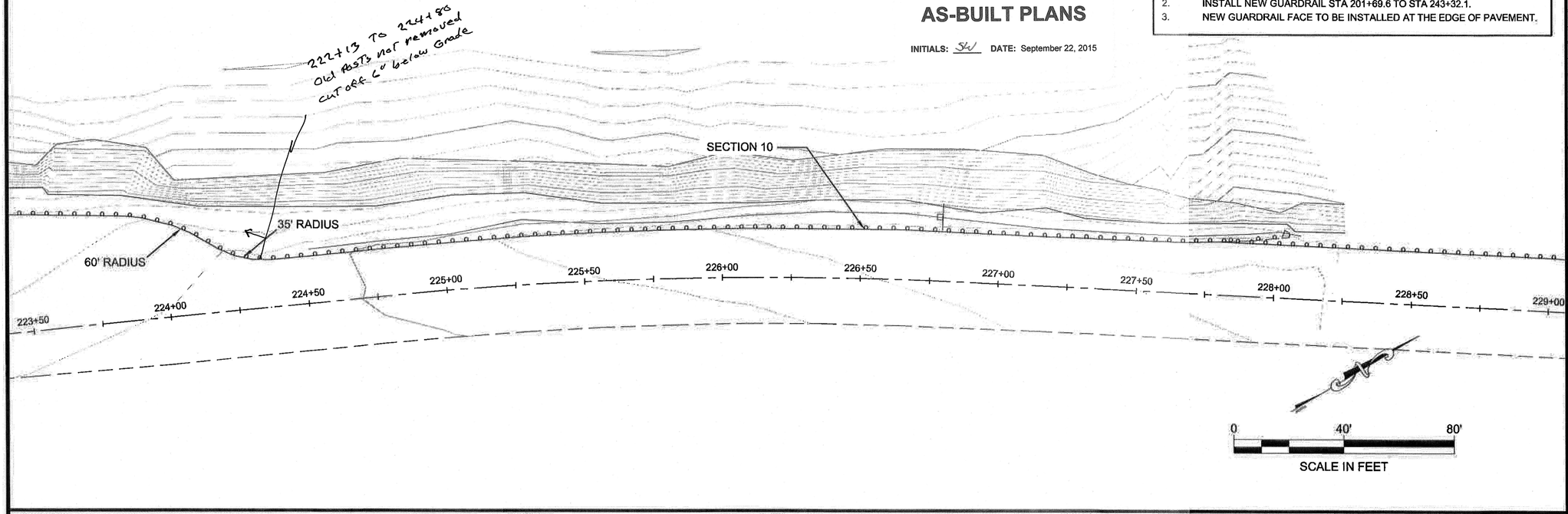
SECTION 10

PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F12	36

AS-BUILT PLANS

INITIALS: SW DATE: September 22, 2015

SECTION 10 NOTES:
1. REMOVE EXISTING GUARDRAIL STA 201+72.8 TO STA 228+04.8.
2. INSTALL NEW GUARDRAIL STA 201+69.6 TO STA 243+32.1.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\EN\C3D

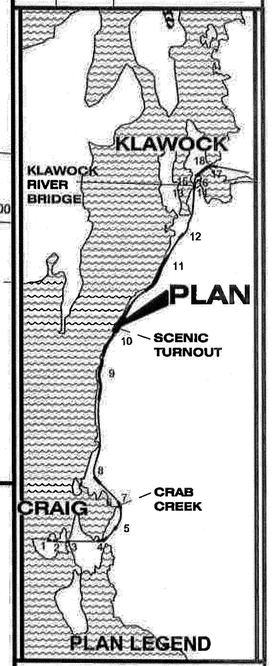
PURVES, NATHAN A (DOT)
TAB: F13

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
9th
Gregory Lockwood
CE-11850
PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 10

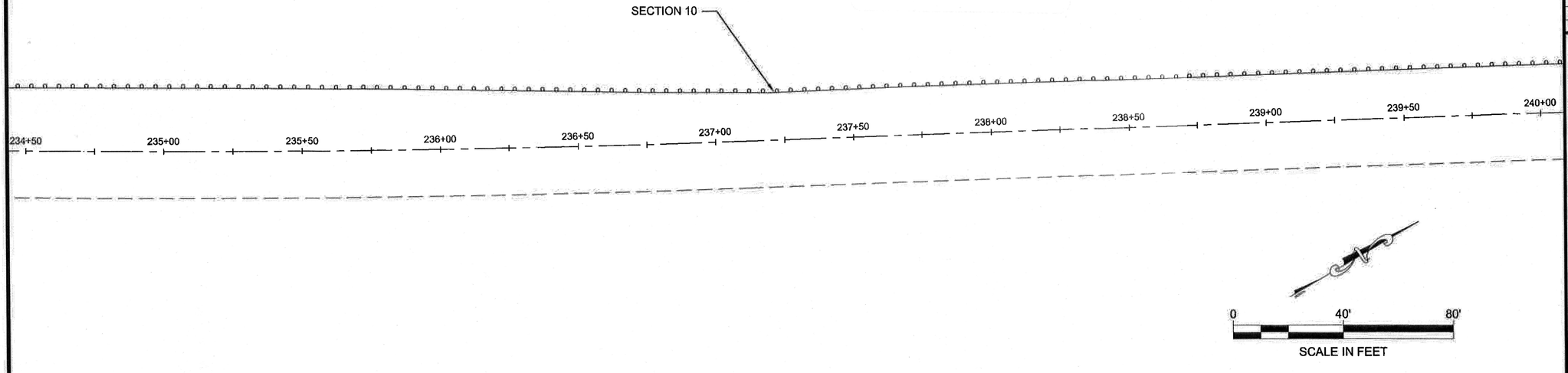
PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F13	36

AS-BUILT PLANS

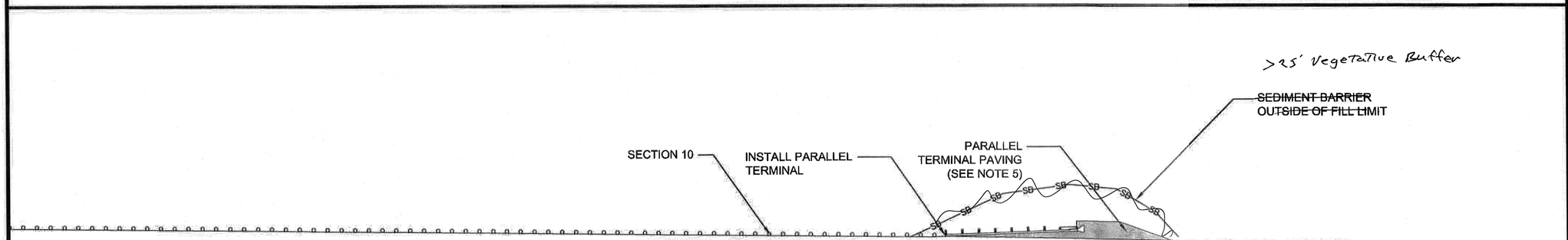
INITIALS: SW DATE: September 22, 2015

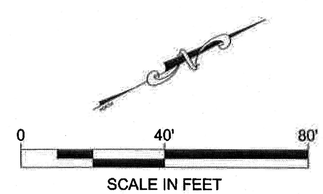
SECTION 10 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 201+72.8 TO STA 228+04.8.
2. INSTALL NEW GUARDRAIL STA 201+69.6 TO STA 243+32.1.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.



SCALE IN FEET





SCALE IN FEET

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PATH: Q:\POW\67832\ENG\3D

PURVES, NATHAN A (DOT)

TAB: F14

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

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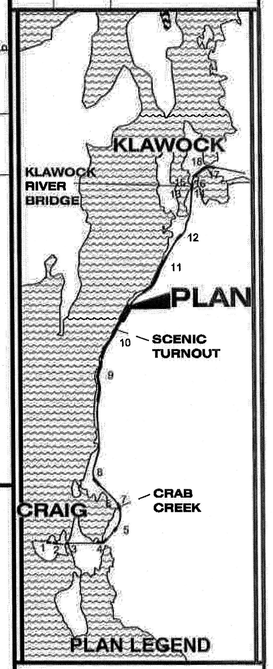


CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
Gregory Lockwood
CE-11850
PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 10

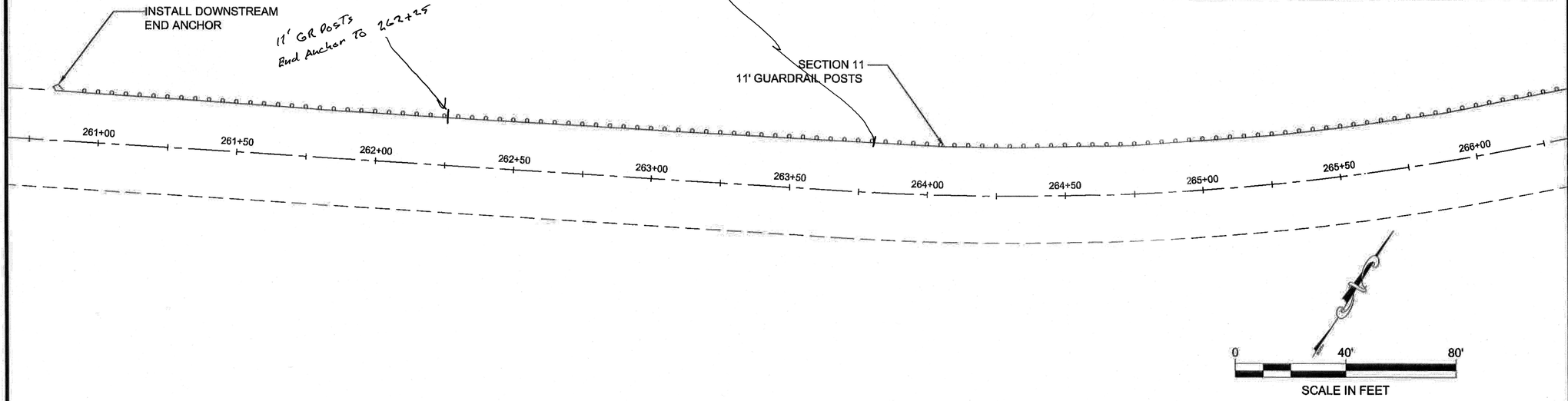
PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F14	36

AS-BUILT PLANS

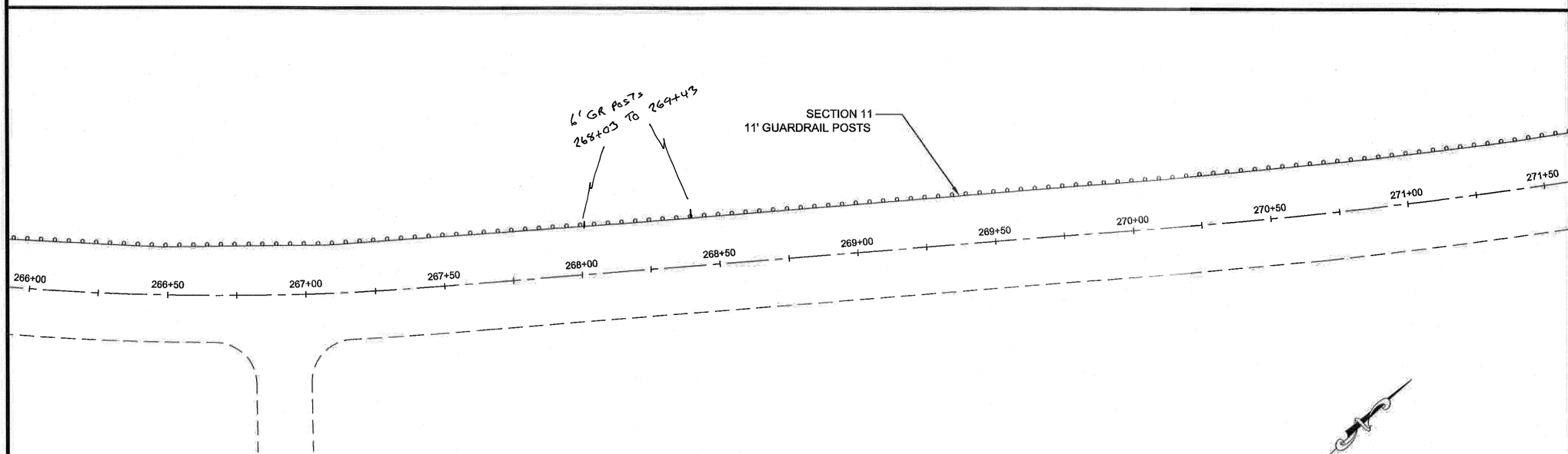
INITIALS: SW DATE: September 22, 2015

SECTION 11 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 279+78.0 TO STA 292+83.1.
2. INSTALL NEW GUARDRAIL STA 260+82.6 TO STA 292+82.6.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.
5. INSTALL 11' GUARDRAIL POSTS IN SECTION 11.



SCALE IN FEET



SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\ENG\C3D

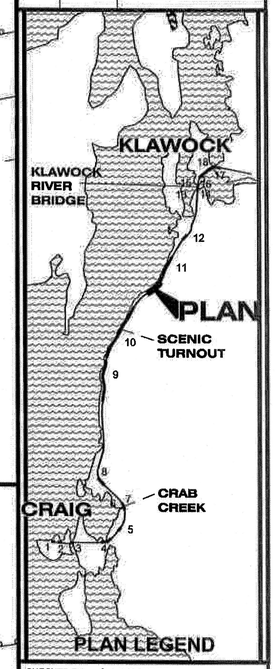
PURVES, NATHAN A (DOT)
TAB: F15

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
Gregory Lockwood
CE-11850
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 11

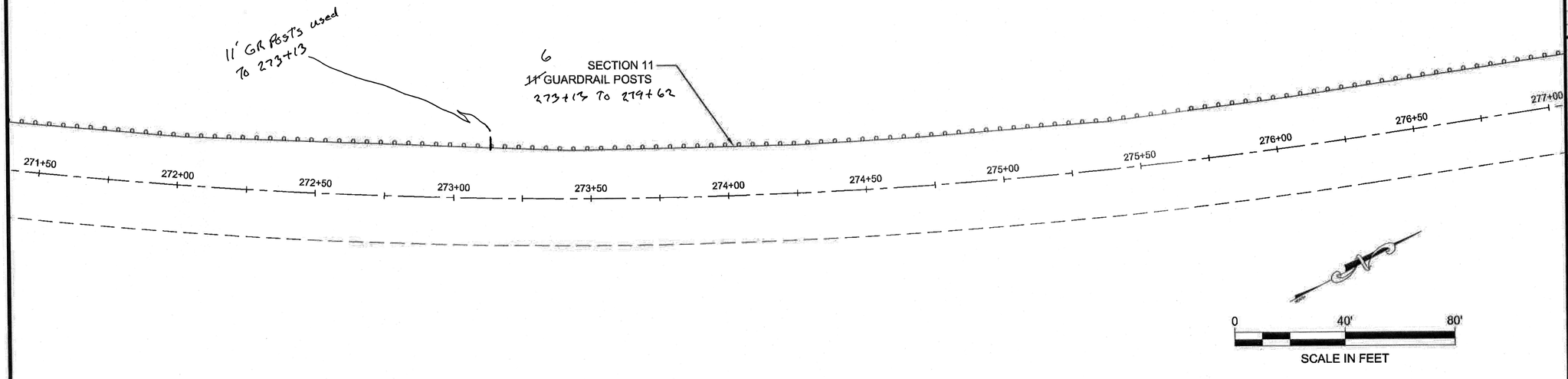
PROJECT DESIGNATION
AC-HHE-0924(020)

STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F15	36

AS-BUILT PLANS

INITIALS: SCW DATE: September 22, 2015

SECTION 11 NOTES:
1. REMOVE EXISTING GUARDRAIL STA 279+78.0 TO STA 292+83.1.
2. INSTALL NEW GUARDRAIL STA 260+82.6 TO STA 292+82.6.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
5. INSTALL 11' GUARDRAIL POSTS IN SECTION 11.



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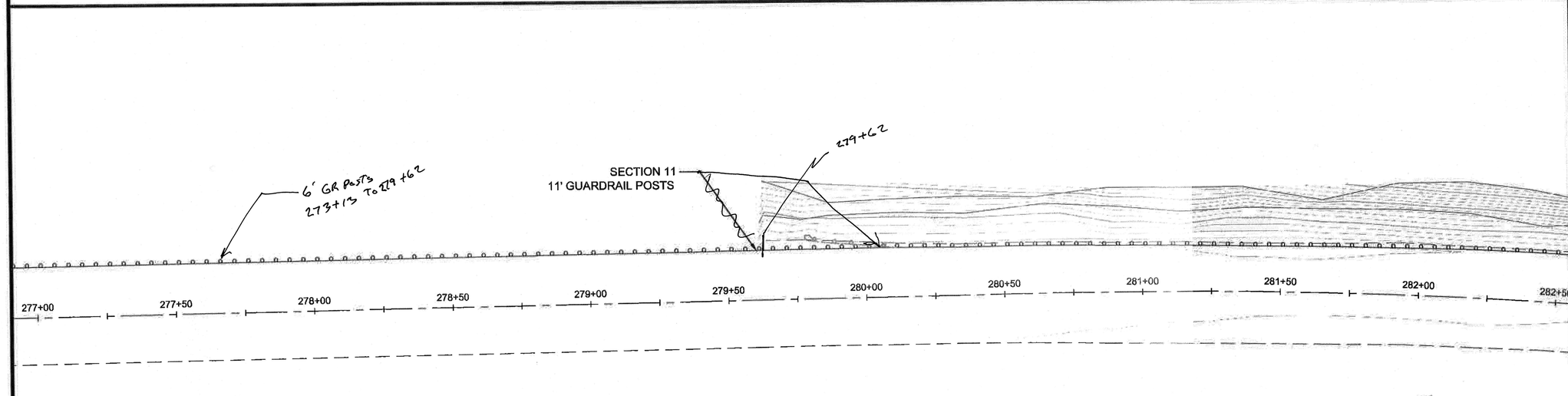

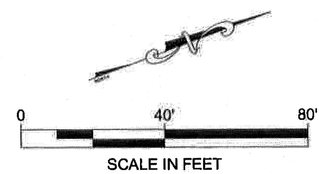

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PURVES, NATHAN A (DOT)

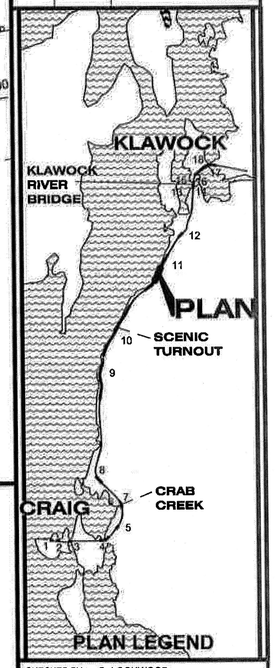
TAB: F16

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
49th
Gregory Lockwood
CE-11650
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 11

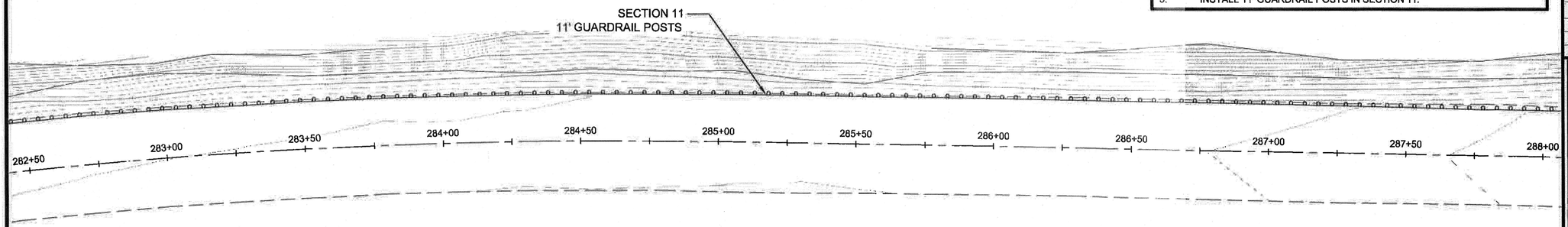
PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F16	36

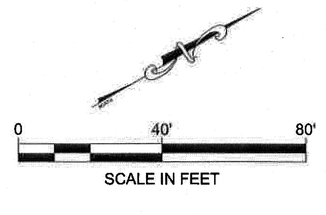
AS-BUILT PLANS

INITIALS: SCW DATE: September 22, 2015

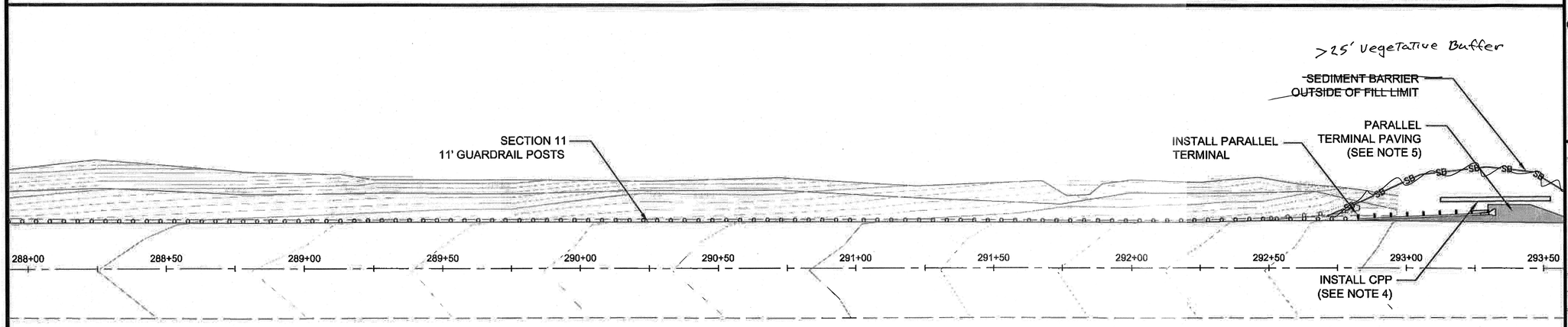
SECTION 11 NOTES:

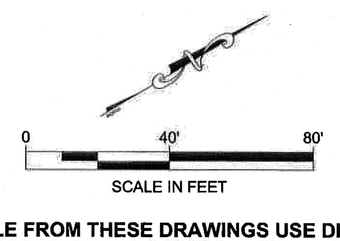
1. REMOVE EXISTING GUARDRAIL STA 279+78.0 TO STA 292+83.1.
2. INSTALL NEW GUARDRAIL STA 260+82.6 TO STA 292+82.6.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. INSTALL 40' LONG 18" DIAMETER CPP IN EXISTING DITCH LINE TO MAINTAIN FLOW PER STANDARD DRAWING D-01.02.
5. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.
5. INSTALL 11' GUARDRAIL POSTS IN SECTION 11.





SCALE IN FEET





SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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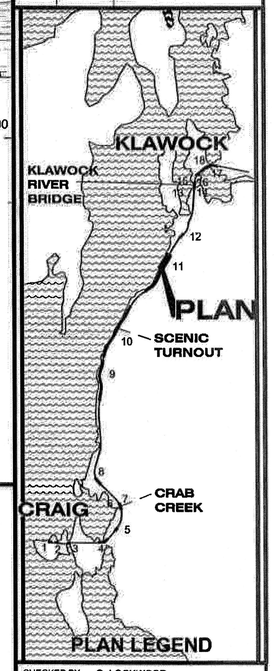
PURVES, NATHAN A (DOT)
TAB: F17

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
19th
Gregory Lockwood
CE-11650
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 11

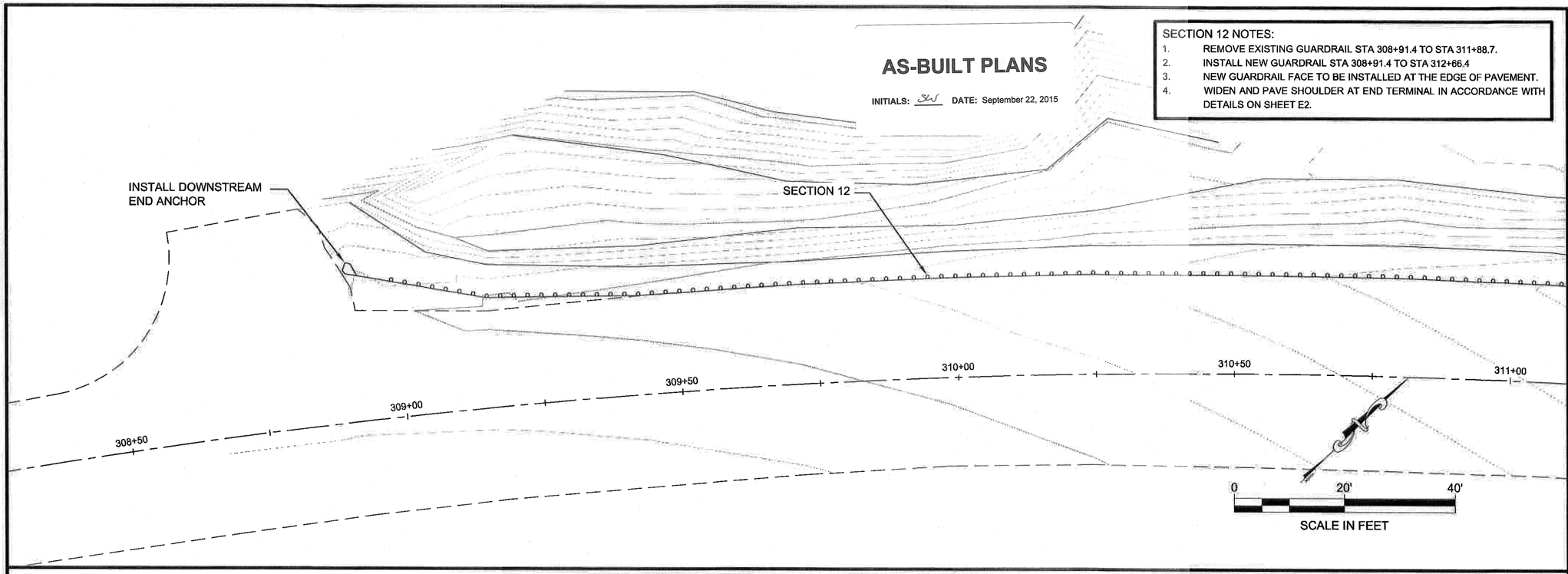
PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F17	36

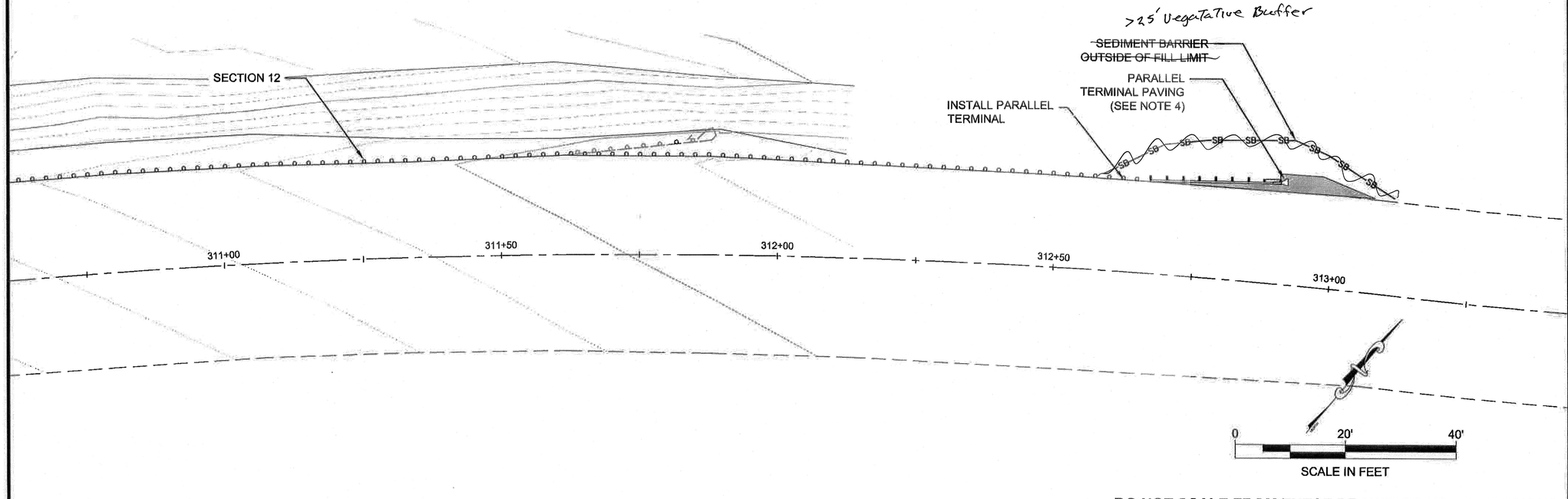
AS-BUILT PLANS

INITIALS: SLV DATE: September 22, 2015

SECTION 12 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 308+91.4 TO STA 311+88.7.
2. INSTALL NEW GUARDRAIL STA 308+91.4 TO STA 312+66.4
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:Q:\POW\67832\EN\C3D

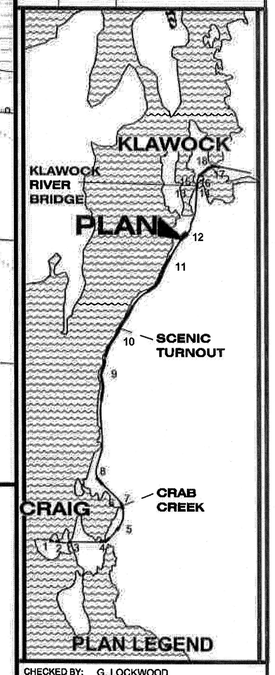
PURVES, NATHAN A (DOT)
TAB: F18

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
9th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/12/15

DESIGNED BY: N. PURVES

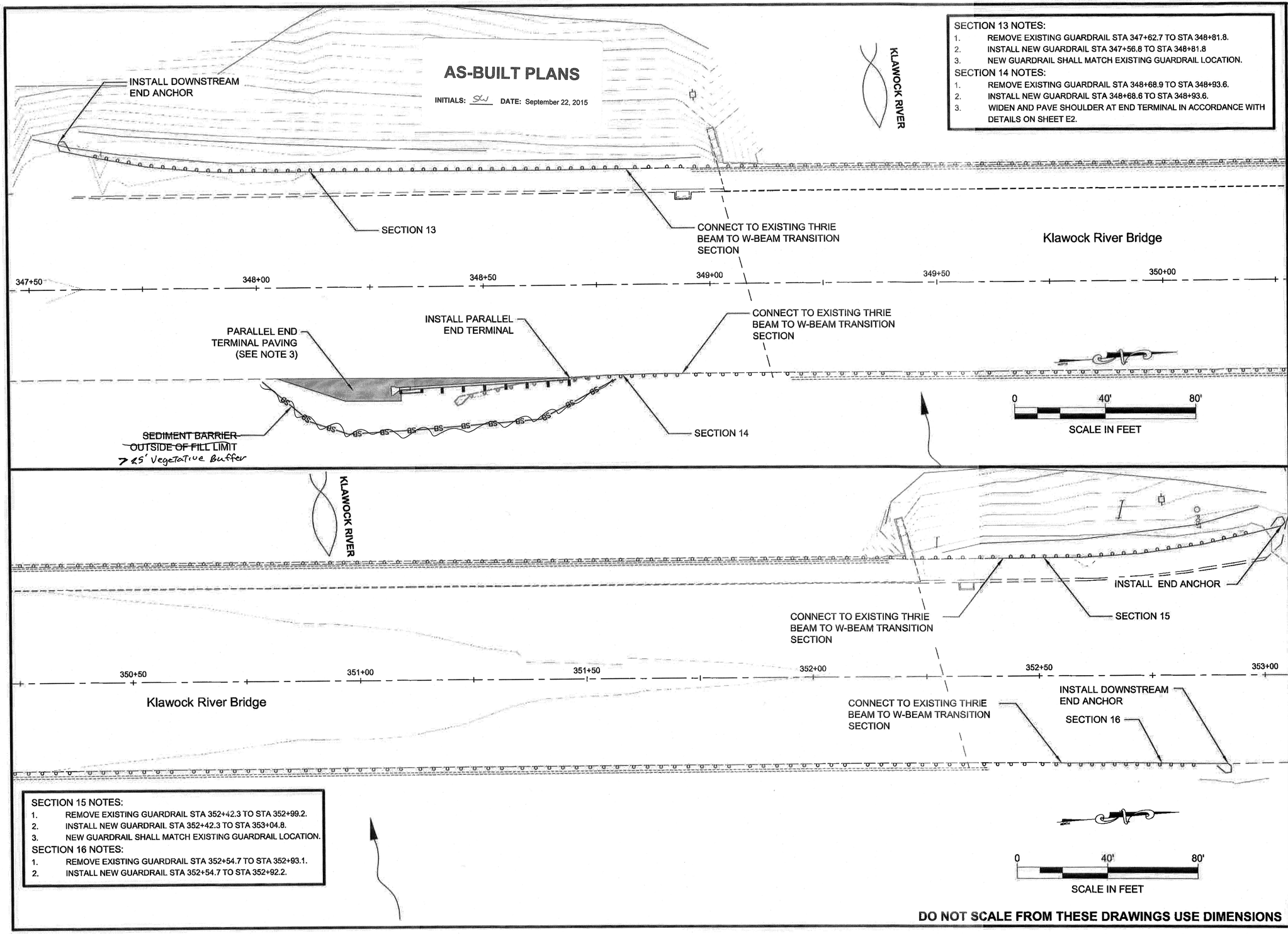
DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 12

PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F18	36



SECTION 13 NOTES:
1. REMOVE EXISTING GUARDRAIL STA 347+62.7 TO STA 348+81.8.
2. INSTALL NEW GUARDRAIL STA 347+56.8 TO STA 348+81.8
3. NEW GUARDRAIL SHALL MATCH EXISTING GUARDRAIL LOCATION.

SECTION 14 NOTES:
1. REMOVE EXISTING GUARDRAIL STA 348+68.9 TO STA 348+93.6.
2. INSTALL NEW GUARDRAIL STA 348+68.6 TO STA 348+93.6.
3. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.

SECTION 15 NOTES:
1. REMOVE EXISTING GUARDRAIL STA 352+42.3 TO STA 352+99.2.
2. INSTALL NEW GUARDRAIL STA 352+42.3 TO STA 353+04.8.
3. NEW GUARDRAIL SHALL MATCH EXISTING GUARDRAIL LOCATION.

SECTION 16 NOTES:
1. REMOVE EXISTING GUARDRAIL STA 352+54.7 TO STA 352+93.1.
2. INSTALL NEW GUARDRAIL STA 352+54.7 TO STA 352+92.2.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\EN\C3D

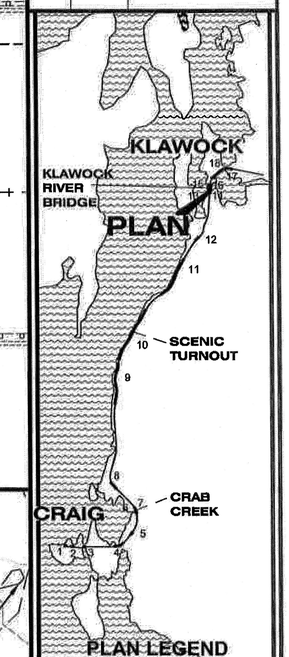
PURVES, NATHAN A (DOT)
TAB: F19

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA 49th Gregory Lockwood CE-11850 REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES
DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY: GUARDRAIL IMPROVEMENT REBID
PROJECT #67832

SECTIONS 13-16

PROJECT DESIGNATION
AC-HHE-0924(020)

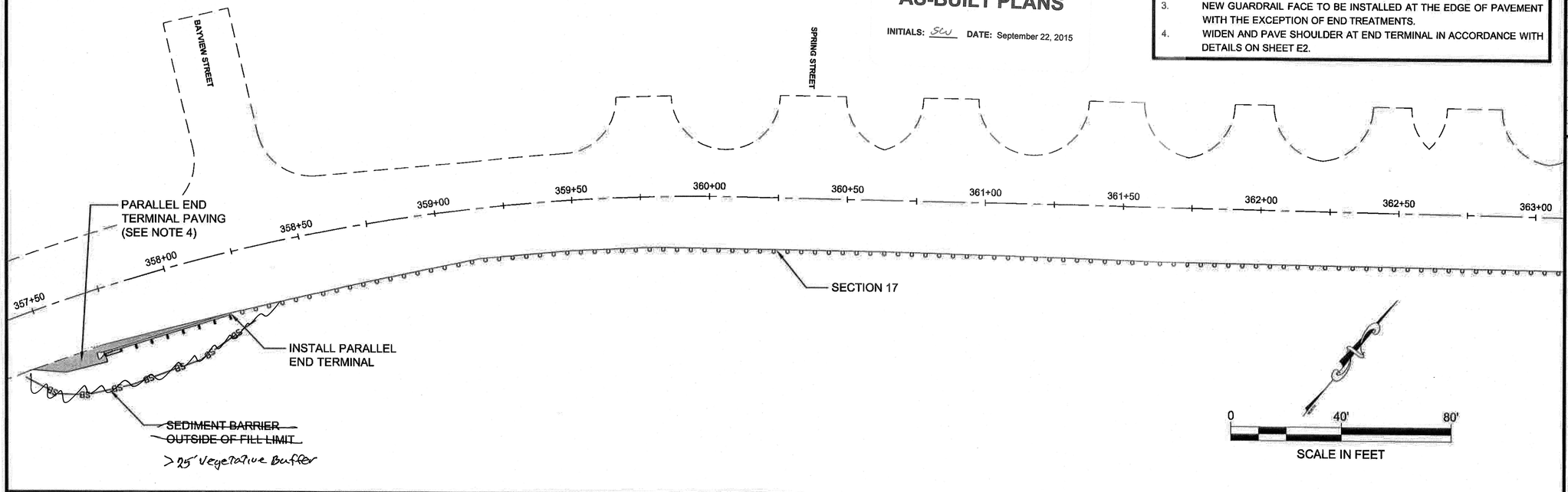
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F19	36

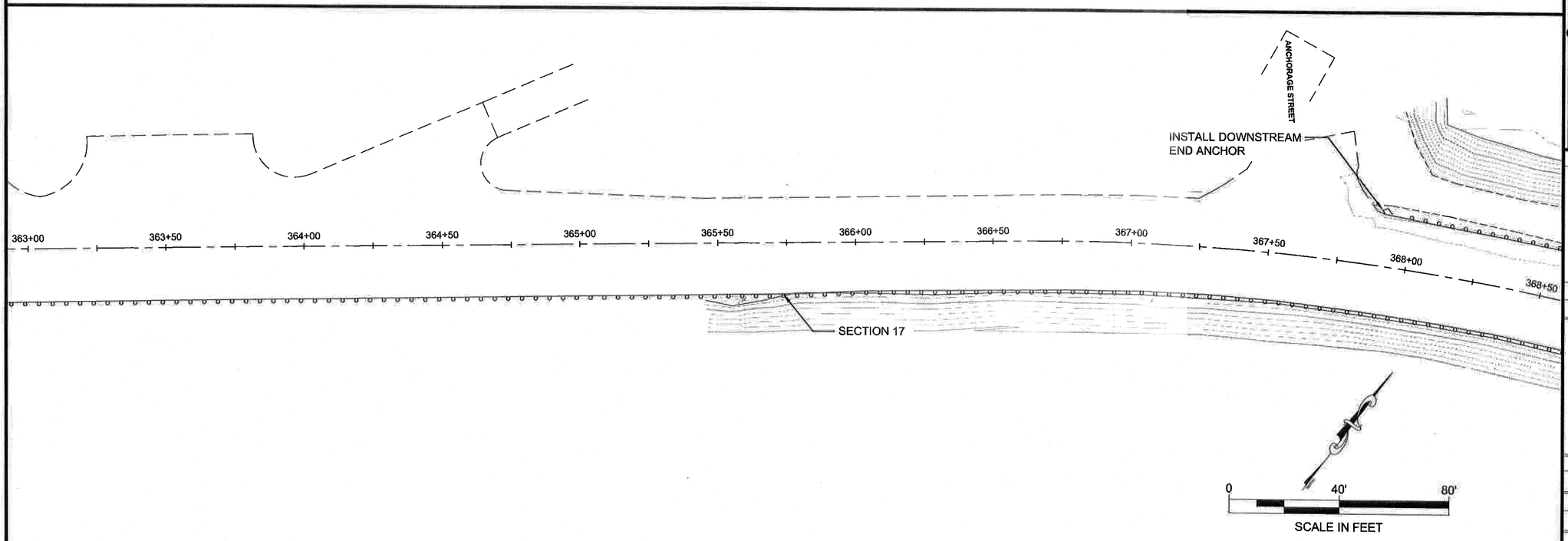
AS-BUILT PLANS

INITIALS: SCW DATE: September 22, 2015

SECTION 17 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 365+55.4 TO STA 374+72.5.
2. INSTALL NEW GUARDRAIL STA 358+18.9 TO STA 374+93.9.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT WITH THE EXCEPTION OF END TREATMENTS.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\POW\67832\ENIC3D

PURVES, NATHAN A (DOT)

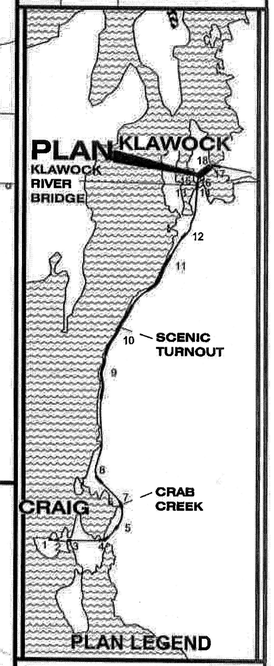
TAB: F20

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: G. LOCKWOOD

STATE OF ALASKA
49th
Gregory Lockwood
CE-11850
REGISTERED PROFESSIONAL ENGINEER
1/15/15

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

CRAIG-KLAWOCK HIGHWAY:
GUARDRAIL IMPROVEMENT
REBID
PROJECT #67832

SECTION 17

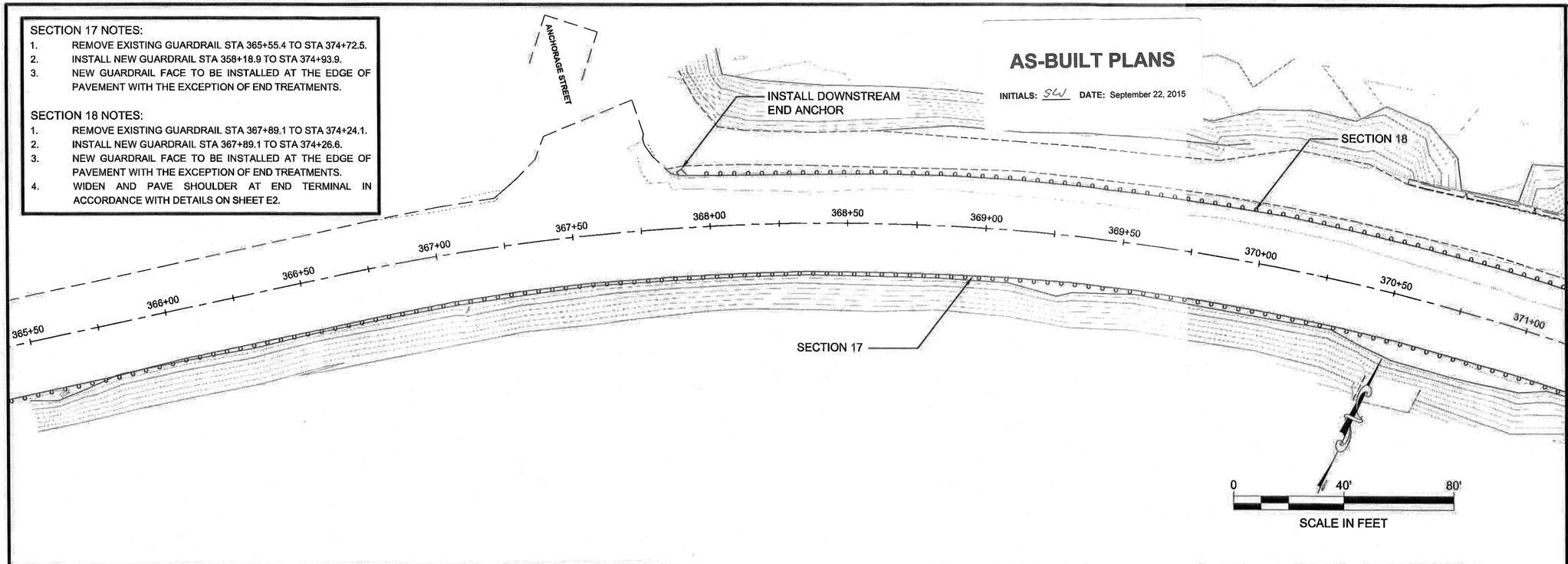
PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F20	36

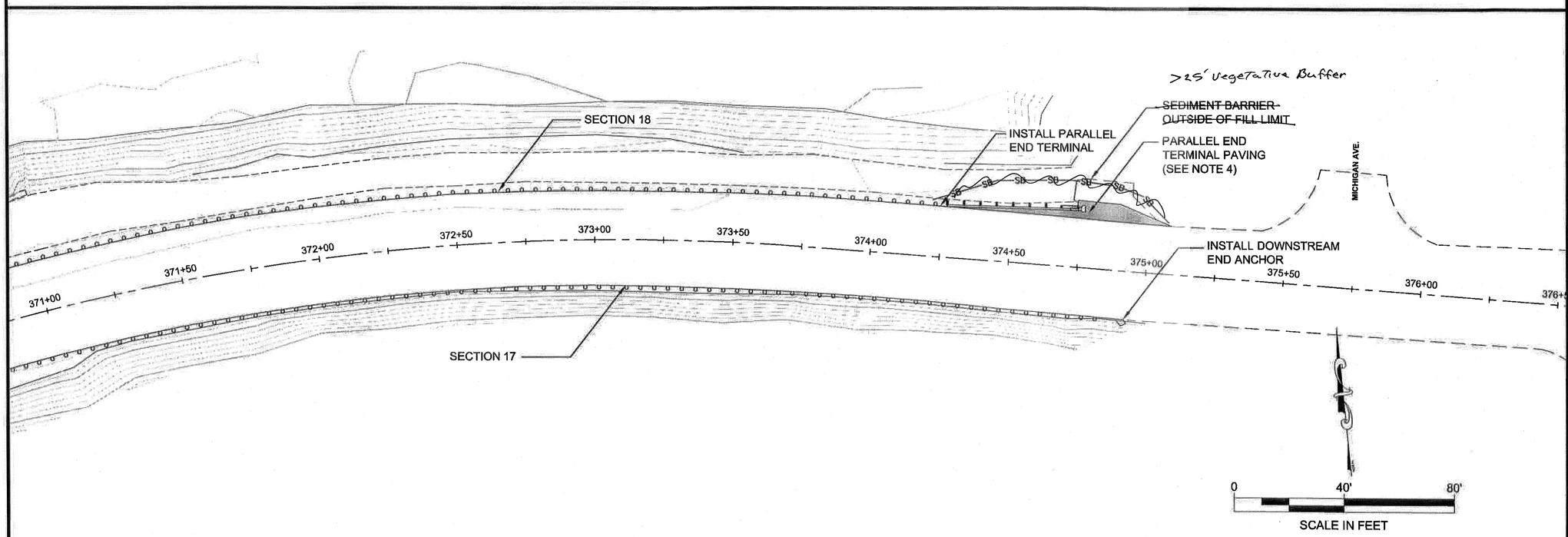
SECTION 17 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 365+55.4 TO STA 374+72.5.
2. INSTALL NEW GUARDRAIL STA 358+18.9 TO STA 374+93.9.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT WITH THE EXCEPTION OF END TREATMENTS.

SECTION 18 NOTES:

1. REMOVE EXISTING GUARDRAIL STA 367+89.1 TO STA 374+24.1.
2. INSTALL NEW GUARDRAIL STA 367+89.1 TO STA 374+26.6.
3. NEW GUARDRAIL FACE TO BE INSTALLED AT THE EDGE OF PAVEMENT WITH THE EXCEPTION OF END TREATMENTS.
4. WIDEN AND PAVE SHOULDER AT END TERMINAL IN ACCORDANCE WITH DETAILS ON SHEET E2.





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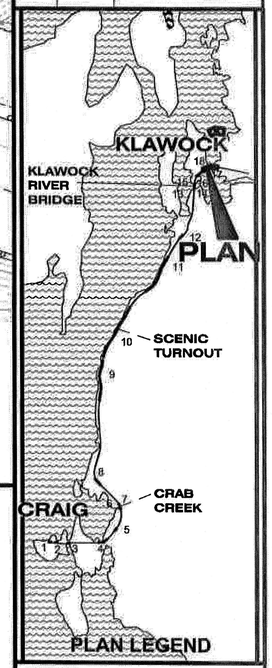
AS-BUILT PLANS

INITIALS: SLW DATE: September 22, 2015



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PURVES, NATHAN A (DOT)
TAB: F21

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: G. LOCKWOOD

STATE OF ALASKA — 49th — Gregory Lockwood — CE-11850 — REGISTERED PROFESSIONAL ENGINEER — 1/15/15

DESIGNED BY: N. PURVES

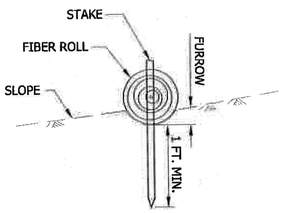
DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

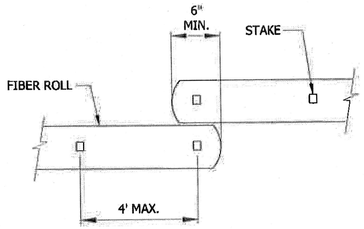
CRAIG-KLAWOCK HIGHWAY: GUARDRAIL IMPROVEMENT REBID
PROJECT #67832

SECTIONS 17 & 18

PROJECT DESIGNATION	
AC-HHE-0924(020)	
STATE	YEAR
ALASKA	2015
SHEET NUMBER	TOTAL SHEETS
F21	36

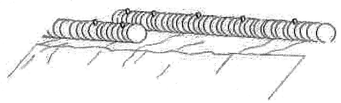


SECTION



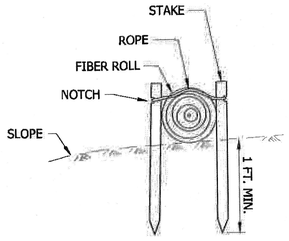
PLAN

FIBER ROLL (TYPE 1)

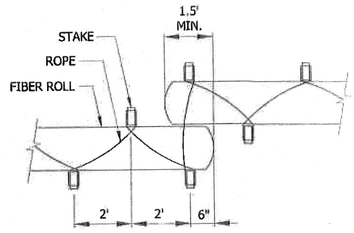


PERSPECTIVE

FIBER ROLL (TYPE 1)

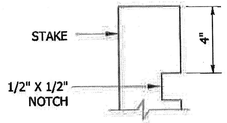


SECTION

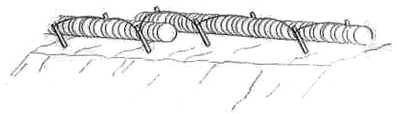


PLAN

FIBER ROLL (TYPE 2)



STAKE

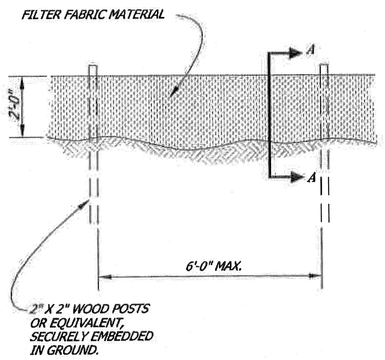


PERSPECTIVE

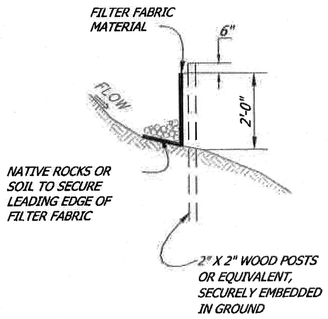
FIBER ROLL (TYPE 2)

TYPICAL FIBER ROLL DETAIL

THE LOCATION AND LENGTH OF FIBER ROLLS IS DEPENDENT ON THE CONDITIONS OF THE SITE. LAP ADJACENT FIBER ROLLS TO PREVENT SEDIMENT BYPASS. ANCHOR AS NECESSARY TO FIRMLY SECURE FIBER ROLLS AND PROVIDE CONTINUOUS CONTACT WITH THE SURFACE ON WHICH IT IS INSTALLED.



ELEVATION



SECTION A-A

SILT FENCE DETAILS

AS-BUILT PLANS

INITIALS: SCW DATE: September 22, 2015

ESCP NOTES

1. INSTALL SEDIMENT BARRIER BEFORE BEGINNING CONSTRUCTION ACTIVITIES.
2. EXTEND SEDIMENT BARRIER BEYOND EDGES OF FILL IN AREAS OF SHOULDER WIDENING FOR PARALLEL END TERMINALS.
3. USE OF EITHER SILT FENCE OR FIBER ROLLS ARE ACCEPTABLE SEDIMENT BARRIERS.
4. SEDIMENT CREATED FROM D-1 FILL ALONG STANDARD GUARDRAIL INSTALLATION AREAS WILL BE CONTROLLED BY NATURAL VEGETATION.
5. THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A WQCP ACCORDING TO SECTION 641 OF THE SPECS.
6. ADDITIONAL SEDIMENT BARRIERS MAY NEED TO BE ADDED AT THE DISCRETION OF THE PROJECT ENGINEER.
7. 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.
8. MAINTAIN DEVICES. MONITOR DAILY.
9. REMOVE SEDIMENT BARRIERS AFTER CONSTRUCTION IS COMPLETE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. LOCKWOOD

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

POW-
CRAIG-KLAWOCK GUARDRAIL IMPROVEMENTS REBID
PROJECT #67832

EROSION & SEDIMENT CONTROL PLAN

PATH: Q:\POW\67832\EN\C3D\P1 ESCP 67832 G-RIAL .DWG
TAB: P1

PURVES, NATHAN A (DOT)

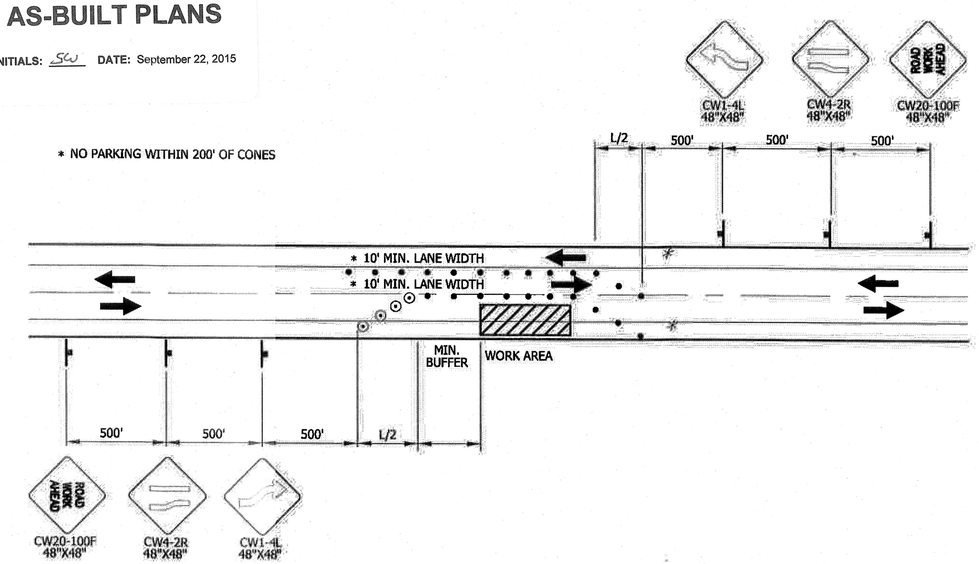
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	AC-HHE-0924(020) 67832	2015	P1	36

TRAFFIC CONTROL NOTES

1. A MINIMUM OF TWO LANES SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS, EXCEPT DURING FLAGGING OPERATIONS.
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. FLOOD LIGHTS SHALL BE PROVIDED FOR FLAGGER STATIONS DURING NIGHT OPERATIONS.
5. A SINGLE FLAGGER MAY BE APPROVED BY THE ENGINEER IF THE ENTIRE WORK AREA IS LESS THAN 300' AND VISIBLE FROM THE FLAGGER STATION.
6. CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
7. 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. ALL TCP'S SHALL BE CRATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL.

AS-BUILT PLANS

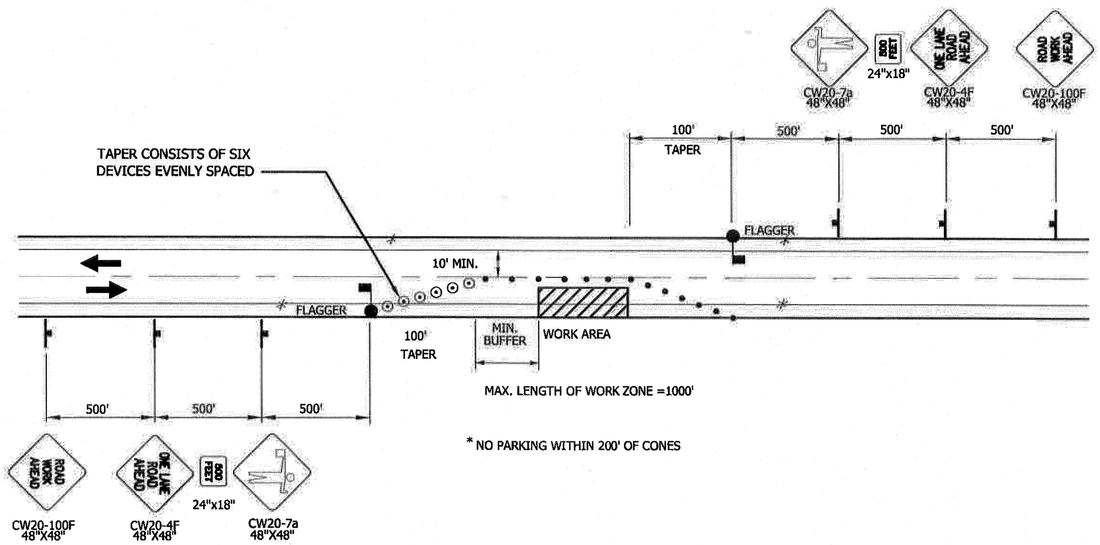
INITIALS: SCW DATE: September 22, 2015



TWO-WAY TRAFFIC USING LEFT LANE

LEGEND

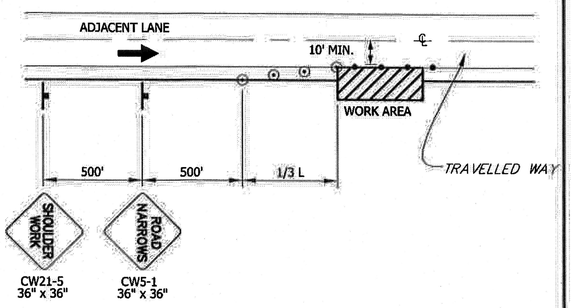
- SIGN
- CONE
- DRUM



SINGLE LANE CLOSURE TWO LANE ROAD

TCP SETUP TABLE

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



SHOULDER WORK

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. LOCKWOOD

DESIGNED BY: N. PURVES

DRAWN BY: N. PURVES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

POW-
CRAIG-KLAWOCK GUARDRAIL IMPROVEMENTS REBID
PROJECT #67832

TRAFFIC CONTROL PLAN

PATH: Q:\POW\67832\ENV\C3D\T1 TRAFFIC CONTROL PLAN 67832 G-RAIL.DWG

TAB: T1

PURVES, NATHAN A (DOT)

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
AC-HHE-0924(020) 67832	2015	T1	36