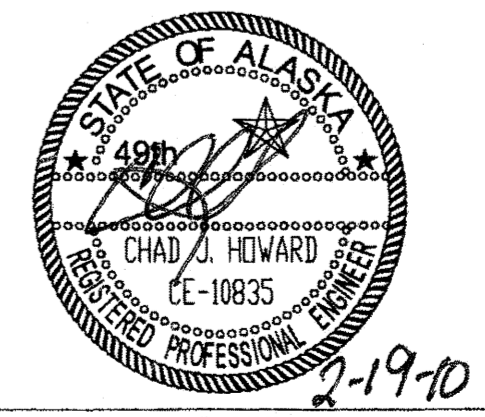


ESTIMATE OF QUANTITIES							
ITEM NUMBER	ITEM DESCRIPTION	PAY UNIT	COMBINED QUANTITY	DOUGLAS HIGHWAY	GLACIER HWY/TWIN LAKES DR.	GLACIER HWY/LEMON RD.	MENDENHALL RD. (VALLEY BLVD TO BACK LOOP RD.)
303 (3)	LINEAR GRADING	STATION	60-47.30				60
401 (1)	ASPHALT CONCRETE, SP, TYPE B	TON	4345-4722.71	380	945	1180	1840
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	TON	261-307.37	23	57	71	110
401 (6)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	48-10.50	1	4	5	8
408 (1)	PAVEMENT COLD PLANING	SQUARE YARD	22349-2412.24	3150-3002.40	7860-8570.6	9000-10500.6	1530-1738.4
604 (4)	ADJUST EXISTING MANHOLE	EACH	7-5	2	1	4-2	0
615 (1)	STANDARD SIGN	SQUARE FOOT	700-664.25	31	26	535	108
632 (1)	PAVING FABRIC	SQUARE YARD	250-167.90	30			220
638 (1)	WATTLE	LINEAR FOOT	500-300.0			500	
639 (3)	DRIVEWAY	EACH	14-20				14
641 (1)	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641 (2)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641 (4)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL AMENDMENTS	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641 (6)	INLET PROTECTION	EACH	66-45	6	25	35	
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642 (4)	SET PRIMARY MONUMENT	EACH	21-3			15	6
642 (9)	REFERENCE EXISTING MONUMENT	EACH	21-19			15	6
642 (10)	MONUMENT CASE <small>ITEM NOT USED</small>	EACH	21-0			15	6
642 (11)	ADJUST EXISTING MONUMENT CASE	EACH	21-19			15	6
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643 (15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643 (25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
670 (8)	RECESSED PAVEMENT MARKER	EACH	560-512	30	80	370	80
670 (10)	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
203(1a)	Additional Base Course Grading, C 0 1	LUMP SUM	ALL REQUIRED		ALL REQUIRED		
401(1a)	Salmon Creek Bridge Approach Patching, C 0 1	LUMP SUM	ALL REQUIRED		ALL REQUIRED		
615(1a)	Standard Sign Adjustment, C 0 2	LUMP SUM	ALL REQUIRED			ALL REQUIRED	ALL REQUIRED

BASIS OF ESTIMATE		
ITEM NO.	ITEM	ESTIMATING FACTOR
401 (1)	ASPHALT CONCRETE, SP, TYPE B	120 LBS./S.Y./IN.
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	6.0% OF ITEM 401(1)
402 (1)	STE-1 ASPHALT FOR TACK COAT	0.1 GAL/S.Y. (243 GAL/TON)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date *2/19/10*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD  DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION JNU-FFY09 AREAWIDE PAVING PROJECT #68837 ESTIMATE OF QUANTITIES			
PATH: Q:\JNU\68837\PLANSET\68837_A2-A6_ESTIMATES.DWG TAB: A2 Friday, February 19, 2010 3:48:15 PM GRANTHAM, RICK L (DOT)					
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION HPP-000S(696)-68837	YEAR 2009	SHEET NO. A2	TOTAL SHEETS 29

MENDENHALL LOOP ROAD
(VALLEY BLVD TO BACK LOOP ROAD)

117+00	RT	69	5.5	KIMBERLY STREET
121+50	RT	57	6	THUNDER MOUNTAIN
121+75	LT	91	6	BUS PULLOUT
639(3) DRIVEWAY				
STATION	OFFSET	WIDTH (ft)	LENGTH (ft)	REMARKS
111+25	RT	20	5	PAVED DRIVEWAY
111+70	LT	30	5	PAVED DRIVEWAY
111+74	RT	22	5	PAVED DRIVEWAY
113+20	LT	32	5	PAVED DRIVEWAY
113+84	LT	22	5	PAVED DRIVEWAY
114+56	LT	22	5	PAVED DRIVEWAY
114+66	RT	25	5	PAVED DRIVEWAY
114+94	LT	19	5	PAVED DRIVEWAY
117+18	LT	23	5	PAVED DRIVEWAY
124+10	RT	35	5	PAVED DRIVEWAY
125+64	LT	30	5	PAVED DRIVEWAY
130+06	LT	25	5	PAVED DRIVEWAY
133+58	LT	23	5	PAVED DRIVEWAY
128+50	RT	45	6	KEEGAN STREET
135+87	RT	69	7	GRANT STREET
137+50	LT	91	7	MENDENHALL LOOP ROAD
124+00	LT	69	8	TAKU BLVD

642(11) ADJUST EXISTING MONUMENT CASE

STATION	REMARKS
109+07	CL MON CASE
109+15	CL MON CASE
118+68	CL MON CASE
135+54	CL MON CASE
122+04	CL MON CASE
137+58	18' RT. MON CASE W/ 2' X 2' CONCRETE COLLAR

GLACIER HWY/LEMON ROAD

604(4) ADJUSTMENT OF EXISTING MANHOLES

STATION	OFFSET (ft)	REMARKS
10+82	17 RT	2.2' X 3.2' STEEL SD GRATE W/ 4.3' X 5.3' CONCRETE COLLAR
14+40	5 LT	SSMH W/ 4' X 4' CONCRETE COLLOR
16+75	9 LT	SSMH
57+01	10 LT	SSMH

NOTE: MANHOLES AT STA. 14+40 & STA. 16+75 REPLACE FRAME AND LID. FRAME, LID AND INFRA-RISER TO BE PROVIDED BY THE CITY AND BOROUGH OF JUNEAU.

642(11) ADJUST EXISTING MONUMENT CASE

STATION	REMARKS
3+28	CL MON CASE
17+10.67	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
17+10.67	CL MON CASE 1' RT
26+27.65	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
29+27.65	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
39+39.40	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
44+57	CL INT. MON SPIKE WITH WASHER
45+07.24	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
48+07.24	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
57+28.89	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
59+28.89	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
62+78.05	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
64+78.05	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
81+02.44	CL MON CASE W/ 2' X 2' CONCRETE COLLAR
83+37	4' RT. MON CASE W/ 2' X 2' CONCRETE COLLAR

GLACIER HWY/TWIN LAKES DRIVE

604(4) ADJUSTMENT OF EXISTING MANHOLES

STATION	OFFSET (ft)	REMARKS
106+10	6.5 LT	MANHOLE

NOTE: REPLACE FRAME AND LID. FRAME, LID AND INFRA-RISER TO BE PROVIDED BY THE CITY AND BOROUGH OF JUNEAU.

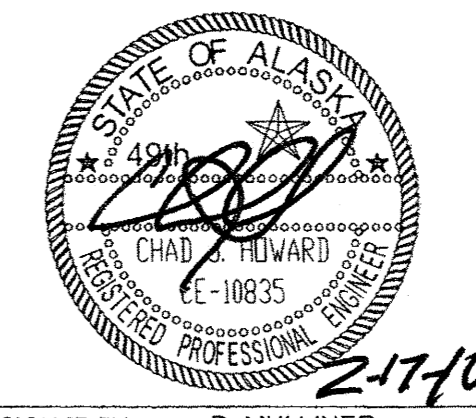
DOUGLAS HIGHWAY

604(4) ADJUSTMENT OF EXISTING MANHOLES

STATION	OFFSET (ft)	REMARKS
15+37	8 LT	DOUGLAS HWY - TEL COMMUNICATIONS MANHOLE
18+39	8 LT	DOUGLAS HWY - MANHOLE
10+10	10 LT	LEMON ROAD
10+75	7 RT	LEMON ROAD
106+10	6.5 LT	TWIN LAKES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 2/17/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD  DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION JNU-FFY09 AREAWIDE PAVING PROJECT #68837 SUMMARIES			
PATH: Q:\JNU\68837\PLANSET\68837_A2-A6_ESTIMATES.DWG TAB: A3 Wednesday, February 17, 2010 3:30:35 PM GRANTHAM, RICK L (DOT)					
NO.	DATE	DESCRIPTION	YEAR	SHEET NO.	TOTAL SHEETS
				A3	29

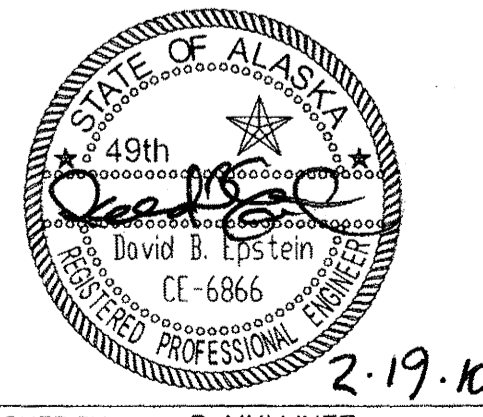
HPP-000S(696)-68837 2009 A3 29

615 (1) STANDARD SIGN SUMMARY

SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST	SIGN FACING	COMMENTS
MENDENHALL LOOP ROAD										
1	CENTER LANE TWLTL ONLY	107+44	RT	R3-9B	30	36	7.5	2.5 PST	SB	MANUFACTURE SIGNS #1 AND #2 AS A SINGLE SIGN.
2	END	107+44	RT	R7-202ER	30	12	2.5	-	SB	SEE ABOVE NOTE. SIGN #2 TO BE BELOW SIGN #1.
3	KIMBERLY ST	108+82	RT	D3-1	36	8	2	-	NB/SB	MOUNT ABOVE SIGN #4. USE 4" LETTERS, FONT SERIES C.
4	STOP	108+82	RT	R1-1	30	30	6.25	2.5 PST	EB	
5	THUNDER MT RD	122+15	RT	D3-1	48	8	2.47	-	NB/SB	MOUNT ABOVE SIGN #6. USE 4" LETTERS, FONT SERIES C.
6	STOP	122+15	RT	R1-1	30	30	6.25	2.5 PST	EB	
7	TAKU BLVD	123+84	LT	D3-1	36	8	2	-	NB/SB	MOUNT ABOVE SIGN #8. USE 4" LETTERS, FONT SERIES C.
8	STOP	123+84	LT	R1-1	30	30	6.25	2.5 PST	WB	
9	KEEGAN ST	128+70	RT	D3-1	36	8	2	-	NB/SB	MOUNT ABOVE SIGN #10. USE 4" LETTERS, FONT SERIES C.
10	STOP	128+70	RT	R1-1	30	30	6.25	2.5 PST	EB	
11	CAMPING	134+00	RT	D9-3	24	24	4	-	SB	MANUFACTURE SIGNS #11 AND #12 AS A SINGLE SIGN. MOUNT ON ELECTROLIER
12	LEFT DIRECTIONAL ARROW	134+00	RT	D9-301L	24	6	1	-	SB	SEE ABOVE NOTE. SIGN #12 TO BE BELOW SIGN #11.
13	Mendenhall / Glacier // <- Auke Bay // <- Mendenhall / Loop Road	134+60	RT			36	0	-	SB	6" UPPERCASE LETTERS, 4.5" LOWERCASE, CLEARVIEW 5W FONT
14	SPEED LIMIT 40	135+25	LT	R2-1	30	36	7.5	-	NB	MOUNT ON ELECTROLIER
15	GRANT ST	135+95	RT	D3-1	30	8	1.67	-	NB/SB	MOUNT ABOVE SIGN #16. USE 4" LETTERS, FONT SERIES C.
16	STOP	135+95	RT	R1-1	30	30	6.25	2.5 PST	EB	
17	ADOPT A HIGHWAY	136+75	LT	I-150	30	30	6.25	-	NB	NATIONAL WEATHER SERVICE JUNEAU FORECAST OFFICE, MOUNT ON ELECTROLIER
18	<- Mendenhall Glacier // Airport ->	137+35	RT	D1-2-2	126	24	21	4x6 WOC	WB	6" UPPERCASE LETTERS, 4.5" LOWERCASE, CLEARVIEW 5W FONT. DO NOT SPACE POSTS WITHIN 7' OF ONE ANOTHER.
19	HORIZONTAL ARROW, LEFT AND RIGHT	137+42	RT	W1-7	48	24	8	2.5 PST	WB	
20	TYPE 1 OBJECT MARKER	137+42	RT	OM1-1	18	18	2.25	-	WB	MOUNT BELOW SIGN #19
21	ADOPT A HIGHWAY	137+85	RT	I-150	30	30	6.25	-	SB	THE MENDENHALL FLYING LIONS CLUB, MOUNT ON ELECTROLIER
GLACIER HIGHWAY / TWIN LAKES DRIVE										
22	ADOPT A HIGHWAY	101+07	RT	I-150	30	30	6.25	2.5 PST	WB	BARTLETT REGIONAL HOSPITAL
23	SPEED LIMIT 40	101+40	RT	R2-1	30	36	7.5	2.5 PST	EB	
24	HOSPITAL (SYMBOL)	102+18	LT	D9-2	24	24	4	2.5 PST	EB	MANUFACTURE SIGNS #24 AND #25 AS A SINGLE SIGN
25	LEFT DIRECTIONAL ARROW	102+18	LT	D9-301L	24	6	1	-	EB	SEE ABOVE NOTE. SIGN #25 TO BE BELOW SIGN #24.
26	WIRE ST	109+30	RT	D3-1	24	8	1.33	-	EB/WB	MOUNT ABOVE SIGN #28. USE 4" LETTERS, FONT SERIES C.
27	STOP	109+30	RT	R1-1	30	30	6.25	2.5 PST	SB	
DOUGLAS HIGHWAY										
104	SPEED LIMIT 30	17+45	LT	R2-1	30	36	7.5	2.5 PST	EB	
105	YIELD	18+44	RT	R1-2	36	36	9	2.5 PST	WB	
106	YIELD	18+66	LT	R1-2	36	36	9	2.5 PST	EB	

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 2/19/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS


CHECKED BY: D. EPSTEIN  DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION JNU-FFY09 AREAWIDE PAVING PROJECT #68837														
PATH: Q:\JNU\68837\PLANSET\68837_A2-A6_ESTIMATES.DWG TAB: A4 Friday, February 19, 2010 8:48:54 AM GRANTHAM, RICK L (DOT)	SUMMARIES														
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	REVISIONS DESCRIPTION				<table border="1"> <thead> <tr> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td>HPP-000S(696)-68837</td> <td>2009</td> <td>A4</td> <td>29</td> </tr> </tbody> </table>	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	HPP-000S(696)-68837	2009	A4	29
NO.	DATE	REVISIONS DESCRIPTION													
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS												
HPP-000S(696)-68837	2009	A4	29												

615 (1) STANDARD SIGN SUMMARY

SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST	SIGN FACING	COMMENTS
GLACIER HIGHWAY / LEMON ROAD										
28	STOP	4+15	RT	R1-1	30	30	6.25	2.5 PST	SB	
29	PEDESTRIANS AND BICYCLES PROHIBITED	3+00	LT	R5-10B	30	18	3.75	2.5 PST	EB	
30	SPEED LIMIT 40	5+50	RT	R2-1	30	36	7.5	2.5 PST	WB	
31	LEFT LANE MUST TURN LEFT	5+50	LT	R3-7L	36	36	9	2.5 PST	EB	
32	<- GLACIER HWY	7+25	LT	D3-2L	108	24	18	(2) 4X6 WOOD	EB	
33	COOGAN DR	8+10	RT	D3-1	36	8	2	-	EB/WB	MOUNT ABOVE SIGN #34. USE 4" LETTERS, FONT SERIES C.
34	STOP	8+10	RT	R1-1	30	30	6.25	2.5 PST	SB	
35	STOP	13+40	LT	R1-2	30	30	6.25	2.5 PST	NB	
36	SHORT ST	18+00	LT	D3-1	30	8	1.67	-	WB	MOUNT ABOVE SIGN #36. USE 4" LETTERS, FONT SERIES C.
37	STOP	18+00	LT	R1-1	30	30	6.25	2.5 PST	NB	
38	RIGHT CURVE ARROW (SYMBOL)	19+25	LT	W1-2R	30	30	6.25	2.5 PST	NB	
39	40 MPH (ADVISORY SPEED PLATE)	19+25	LT	W13-1	24	24	4	-	NB	MOUNT BELOW SIGN #37.
40	SPEED LIMIT 40	22+75	RT	R2-1	30	36	7.5	2.5 PST	SB	
41	SPEED LIMIT 40	22+75	LT	R2-1	30	36	7.5	2.5 PST	NB	
42	TRUCK CROSSING	25+75	RT	W8-6	36	36	9.0 1.67	2.5 PST	SB	
43	CENTER LANE TWLTL ONLY	25+75	LT	R3-9B	30	36	7.5	2.5 PST	NB	
44	LEFT CURVE ARROW (SYMBOL)	26+75	RT	W1-2L	30	30	6.25	2.5 PST	SB	
45	40 MPH (ADVISORY SPEED PLATE)	26+75	RT	W13-1	24	24	4	-	SB	MOUNT BELOW SIGN #43.
46	CENTER LANE TWLTL ONLY	28+25	RT	R3-9B	30	36	7.5	2.5 PST	SB	
47	SIGNAL AHEAD (SYMBOL)	28+75	RT	W3-3	36	36	9	2.5 PST	SB	
48	RIGHT CURVE ARROW (SYMBOL)	39+80	LT	W1-2R	30	30	6.25	2.5 PST	WB	
49	40 MPH (ADVISORY SPEED PLATE)	39+80	LT	W13-1	24	24	4	-	WB	MOUNT BELOW SIGN # 47.
50	STOP	40+75	LT	R1-1	30	30	6.25	2.5 PST	SB	
51	STOP	44+00	LT	R1-1	30	30	6.25	2.5 PST	SB	
52	STOP	44+37	RT	R1-1	30	30	6.25	2.5 PST	NB	
53	CENTER LANE TWLTL ONLY	45+75	RT	R3-9B	30	36	7.5	2.5 PST	SB	
54	STOP	46+75	LT	R1-0	30	30	6.25	2.5 PST	EB	
55	STOP	47+60	RT	R1-1	30	30	6.25	2.5 PST	EB	
56	LEMON / CREEK	48+20	RT	I-3	60	36	15	(2) 4X6 WOOD	SB	8" UPPERCASE LETTERS, 6" LOWERCASE, CLEARVIEW 5W FONT
57	CENTER LANE TWLTL ONLY	48+30	LT	R3-9B	30	36	7.5	2.5 PST	NB	MANUFACTURE SIGNS # 55 AND # 56 AS A SINGLE SIGN.
58	BEGIN	48+30	LT	R7-202BR	30	12	2.5	-	NB	SEE ABOVE NOTE. SIGN # 56 TO BE BELOW SIGN # 55.
59	CENTER LANE TWLTL ONLY	49+80	RT	R3-9B	30	36	7.5	2.5 PST	SB	MANUFACTURE SIGNS # 57 AND # 58 AS A SINGLE SIGN.
60	END	49+80	RT	R7-202ER	30	12	2.5	-	SB	SEE ABOVE NOTE. SIGN # 58 TO BE BELOW SIGN # 57.
61	LEMON / CREEK	50+10	LT	I-3	60	36	15	(2) 4X6 WOOD	NB	8" UPPERCASE LETTERS, 6" LOWERCASE, CLEARVIEW 5W FONT
62	LANE USE CONTROL - MULTIPLE LANES	50+60	LT	R3-8L/R	30	30	6.25	2.5 PST	EB	
63	LEFT CURVE ARROW (SYMBOL)	50+80	LT	W1-2L	30	30	6.25	-	NB	

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 2/22/10


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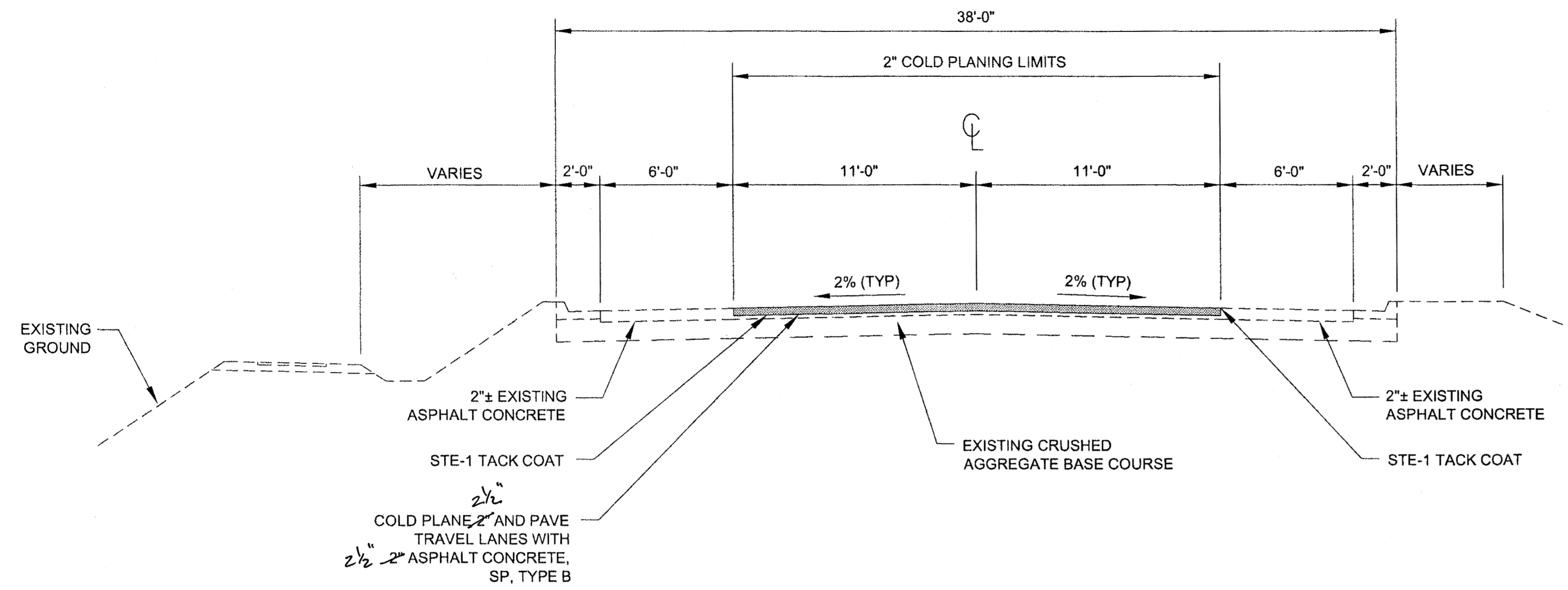
CHECKED BY: D. EPSTEIN  DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION JNU-FFY09 AREAWIDE PAVING PROJECT #68837 SUMMARIES														
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NO.	DATE	DESCRIPTION													
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS												
HPP-000S(696)-68837	2009	A5	29												

615 (1) STANDARD SIGN SUMMARY										
SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST	SIGN FACING	COMMENTS
GLACIER HIGHWAY / LEMON ROAD										
64	40 MPH (ADVISORY SPEED PLATE)	50+80	LT	W13-1	24	24	4	2.5 PST	NB	MOUNT BELOW SIGN # 61.
65	DAVIS AVE	50+75	RT	D3-1	30	8	1.67	-	NB/SB	MOUNT ABOVE SIGN # 64. USE 4" LETTERS, FONT SERIES C.
66	STOP	50+75	RT	R1-1	30	30	6.25	2.5 PST	EB	
67	LEFT LANE MUST TURN LEFT	52+30	LT	R3-7L	36	36	9	2.5 PST	NB	
68	TRUCK CROSSING	53+40	LT	W8-6	36	36	9	2.5 PST	NB	
69	BELARDI DR	54+10	LT	D3-1	36	8	2	-	NB/SB	MOUNT ABOVE SIGN # 68. USE 4" LETTERS, FONT SERIES C.
70	STOP	54+10	LT	R1-1	30	30	6.25	2.5 PST	EB	
71	CENTER LANE TWLTL ONLY	57+75	RT	R3-9B	30	36	7.5	2.5 PST	SB	MANUFACTURE SIGNS # 69 AND # 70 AS A SINGLE SIGN.
72	BEGIN	57+75	RT	R7-202BR	30	12	2.5	-	SB	SEE ABOVE NOTE. SIGN # 70 TO BE BELOW SIGN # 69.
73	CENTER LANE TWLTL ONLY	54+85	LT	R3-9B	30	36	7.5	2.5 PST	NB	MANUFACTURE SIGNS # 71 AND # 72 AS A SINGLE SIGN.
74	END	54+85	LT	R7-202ER	30	12	2.5	-	NB	SEE ABOVE NOTE. SIGN # 72 TO BE BELOW SIGN # 71.
75	LEFT CURVE ARROW (SYMBOL)	56+75	RT	W1-2L	30	30	6.25	2.5 PST	SB	
76	40 MPH (ADVISORY SPEED PLATE)	56+75	RT	W13-1	24	24	4	-	SB	MOUNT BELOW SIGN # 73.
77	CENTER LANE TWLTL ONLY	59+85	LT	R3-9B	30	36	7.5	2.5 PST	SB	MANUFACTURE SIGNS # 75 AND # 76 AS A SINGLE SIGN.
78	BEGIN	59+85	LT	R7-202BR	30	12	2.5	-	SB	SEE ABOVE NOTE. SIGN # 76 TO BE BELOW SIGN # 75.
79	CENTER LANE TWLTL ONLY	59+80	RT	R3-9B	30	36	7.5	2.5 PST	NB	MANUFACTURE SIGNS # 77 AND # 78 AS A SINGLE SIGN.
80	END	59+80	RT	R7-202ER	30	12	2.5	-	NB	SEE ABOVE NOTE. SIGN # 78 TO BE BELOW SIGN # 77.
81	CENTRAL AVE	60+60	RT	D3-1	36	8	2	-	NB/SB	MOUNT ABOVE SIGN # 80. USE 4" LETTERS, FONT SERIES C.
82	STOP	60+60	RT	R1-1	30	30	6.25	2.5 PST	EB	
83	LEFT LANE MUST TURN LEFT	63+15	RT	R3-7L	36	36	9	2.5 PST	EB	
84	POLICE	64+15	RT	D9-14	24	12	2	2.5 PST	EB	MANUFACTURE SIGNS #82 AND # 83 AS A SINGLE SIGN
85	LEFT DIRECTIONAL ARROW	64+15	RT	D9-301L	24	6	1	-	EB	SEE ABOVE NOTE. SIGN # 83 TO BE BELOW SIGN # 82.
86	LEFT LANE MUST TURN LEFT	64+30	LT	R3-7L	36	36	9	2.5 PST	WB	
87	RIGHT CURVE ARROW (SYMBOL)	65+25	LT	W1-2R	30	30	6.25	2.5 PST	WB	
88	40 MPH (ADVISORY SPEED PLATE)	65+25	LT	W13-1	24	24	4	-	WB	MOUNT BELOW SIGN # 85.
89	ALAWAY AVE	66+60	LT	D3-1	36	8	2	-	EB/WB	MOUNT ABOVE SIGN # 88. USE 4" LETTERS, FONT SERIES C.
90	STOP	66+60	LT	R1-1	30	30	6.25	2.5 PST	SB	
91	SWITZER / CREEK	68+90	RT	I-3	66	36	16.5	4X6 WOC	EB	8" UPPERCASE LETTERS, 6" LOWERCASE, CLEARVIEW 5W FONT
92	POLICE	69+00	RT	D9-14	24	12	2	2.5 PST	WB	MANUFACTURE SIGNS # 90 AND # 91 AS A SINGLE SIGN
93	RIGHT DIRECTIONAL ARROW	69+00	RT	D9-301R	24	6	1	-	WB	SEE ABOVE NOTE. SIGN # 91 TO BE BELOW SIGN # 90.
94	SWITZER / CREEK	69+90	LT	I-3	66	36	16.5	4X6 WOC	WB	8" UPPERCASE LETTERS, 6" LOWERCASE, CLEARVIEW 5W FONT
95	SPEED LIMIT 40	70+80	RT	R2-1	30	36	7.5	2.5 PST	EB	
96	NORTHWOOD DR	72+35	RT	D3-1	42	8	2.33	-	EB/WB	MOUNT ABOVE SIGN # 95. USE 4" LETTERS, FONT SERIES C.
97	STOP	72+35	RT	R1-1	30	30	6.25	2.5 PST	NB	
98	CENTER LANE TWLTL ONLY	75+15	RT	R3-9B	30	36	7.5	2.5 PST	EB	
99	CENTER LANE TWLTL ONLY	75+25	LT	R3-9B	30	36	7.5	2.5 PST	WB	
100	RENNINGER ST	76+70	RT	D3-1	42	8	2.33	-	EB/WB	MOUNT ABOVE SIGN # 99. USE 4" LETTERS, FONT SERIES C.
101	STOP	76+70	RT	R1-1	30	30	6.25	2.5 PST	NB	
102	STOP	81+45	LT	R1-1	30	30	6.25	2.5 PST	SB	
103	STOP	84+75	RT	R1-1	30	30	6.25	2.5 PST	NB	

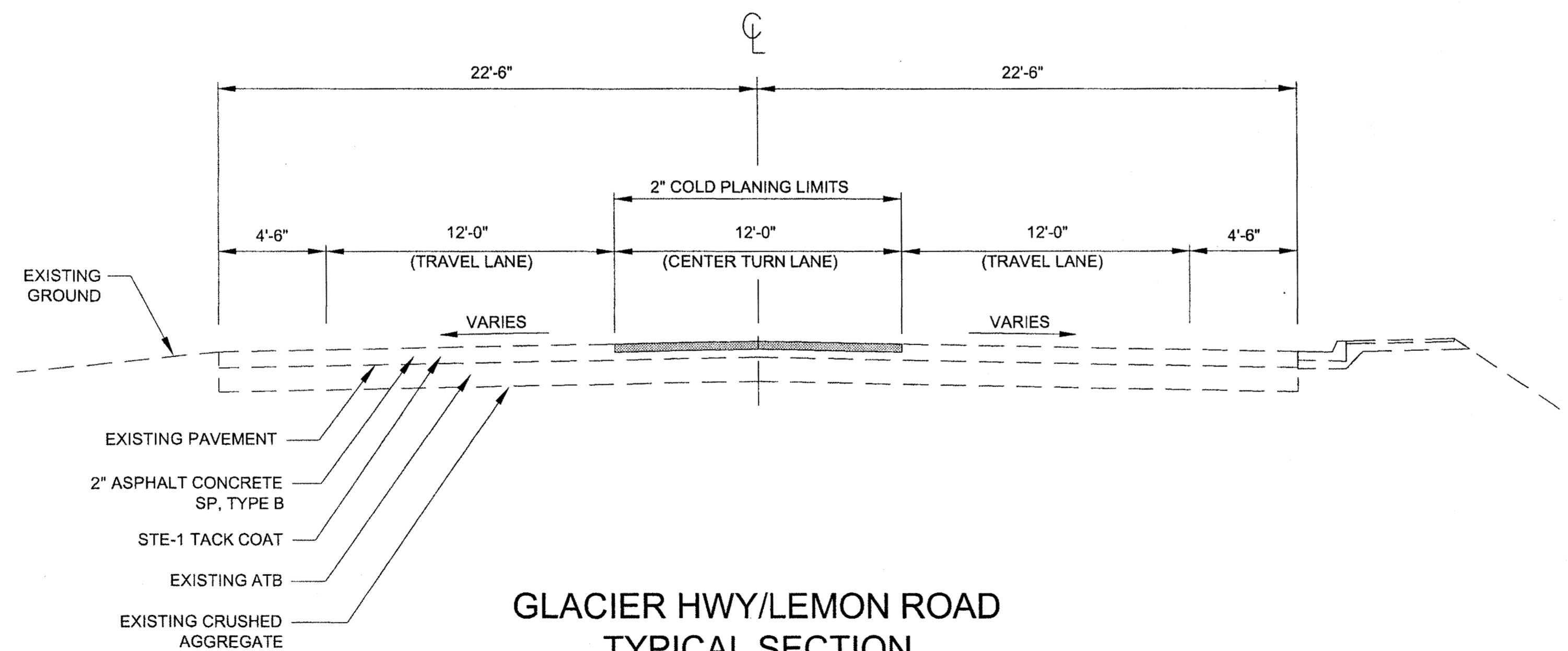
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 11/5/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION JNU-FFY09 AREAWIDE PAVING PROJECT #68837	
DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM		SUMMARIES	
PATH: Q:\JNU\68837\PLANSET\68837_A2-A6_ESTIMATES.DWG TAB: A6 Friday, February 19, 2010 8:46:33 AM GRANTHAM, RICK L (DOT)		PROJECT DESIGNATION	YEAR
REVISIONS NO. DATE DESCRIPTION		HPP-000S(696)-68837	2009
		SHEET NO.	TOTAL SHEETS
		A6	29



**GLACIER HWY/TWIN LAKES DRIVE
TYPICAL SECTION**
STA 100+00 TO STA 131+30
NTS

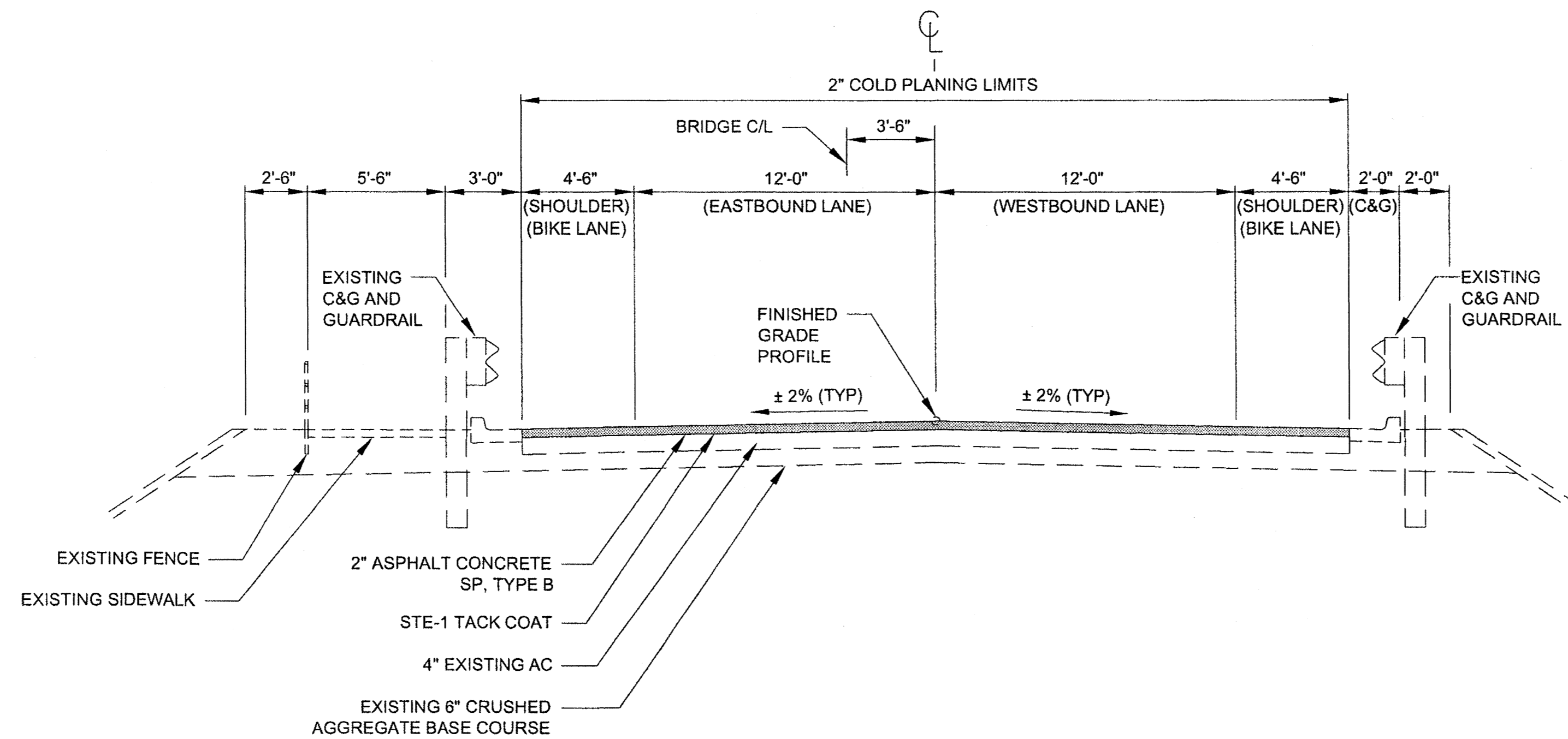


**GLACIER HWY/LEMON ROAD
TYPICAL SECTION**
STA 2+90 TO STA 30+75 AND STA 39+00 TO STA 84+63
NTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 11/24/09

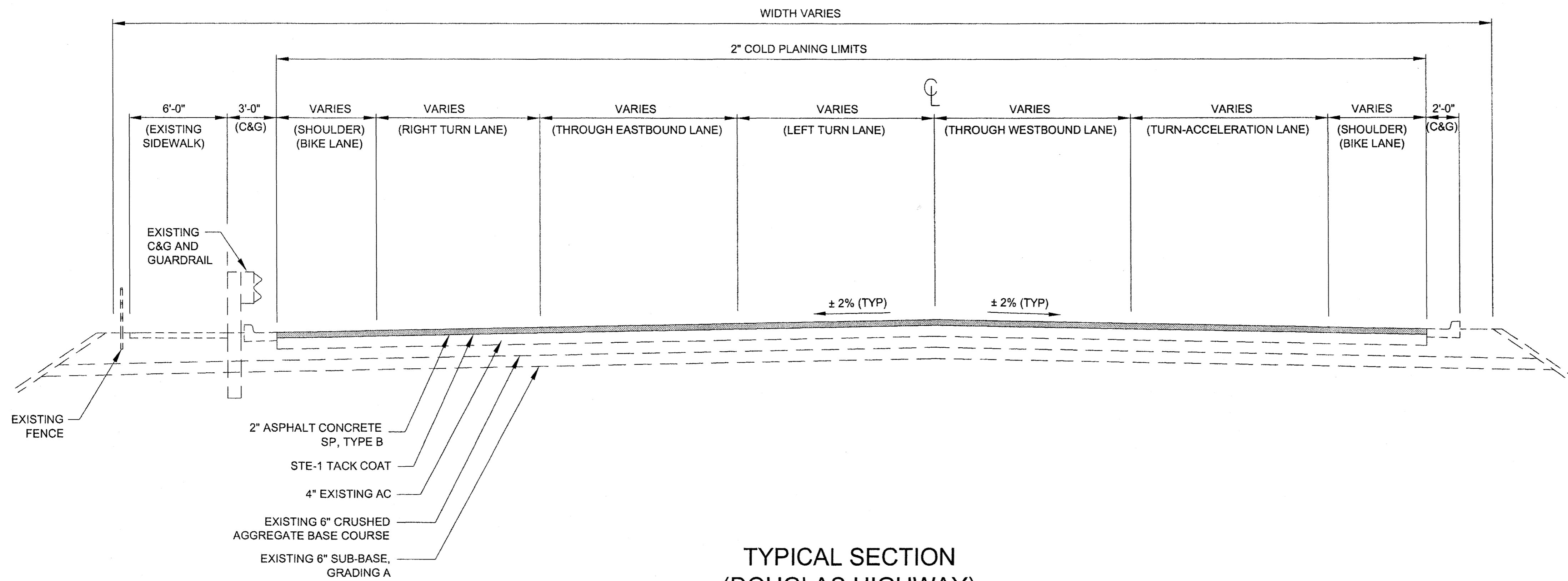
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION JNU-FFY09 AREAWIDE PAVING PROJECT #68837		
DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM		TYPICAL SECTIONS		
PATH: Q:\JNU\68837\PLANSET\68837_A7-A9_TYPICALS.DWG TAB: A7 Monday, November 23, 2009 4:23:51 PM		MULLINER, DOUGLAS J (DOT)		
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION HPP-000S(696)-68837	YEAR 2009	SHEET NO. A7
		TOTAL SHEETS 29		



**TYPICAL SECTION @ EAST ABUTMENT
(DOUGLAS HIGHWAY)**

STA 14+67
NTS



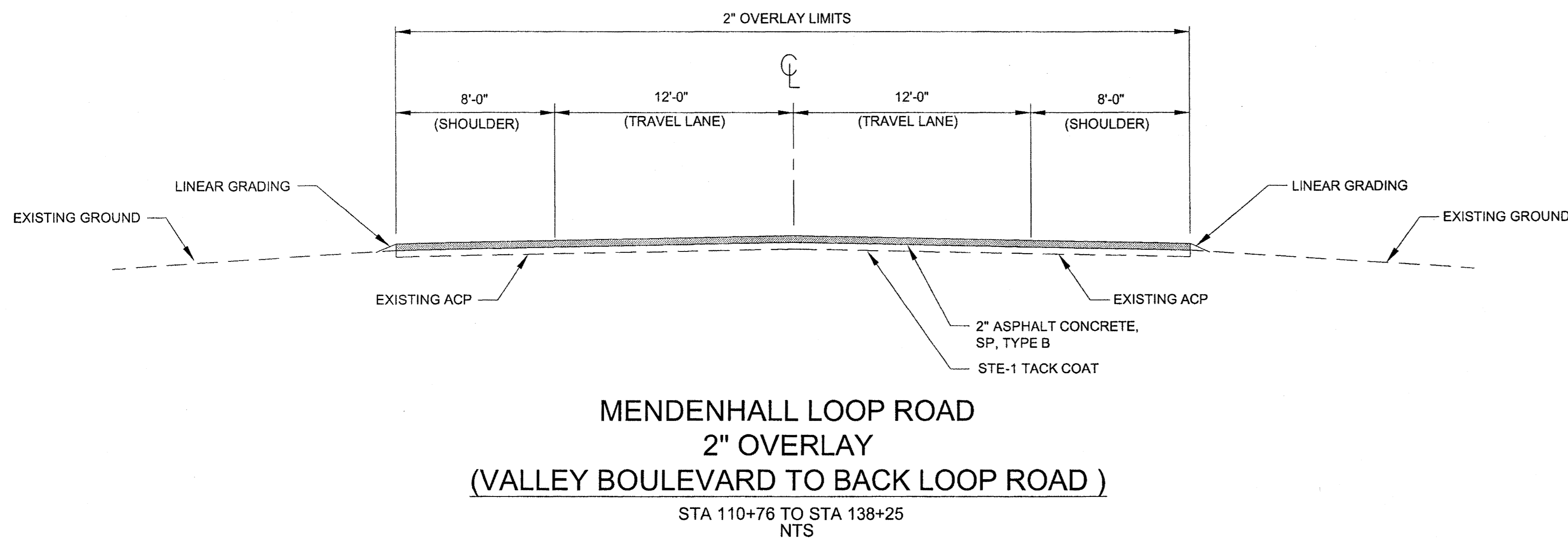
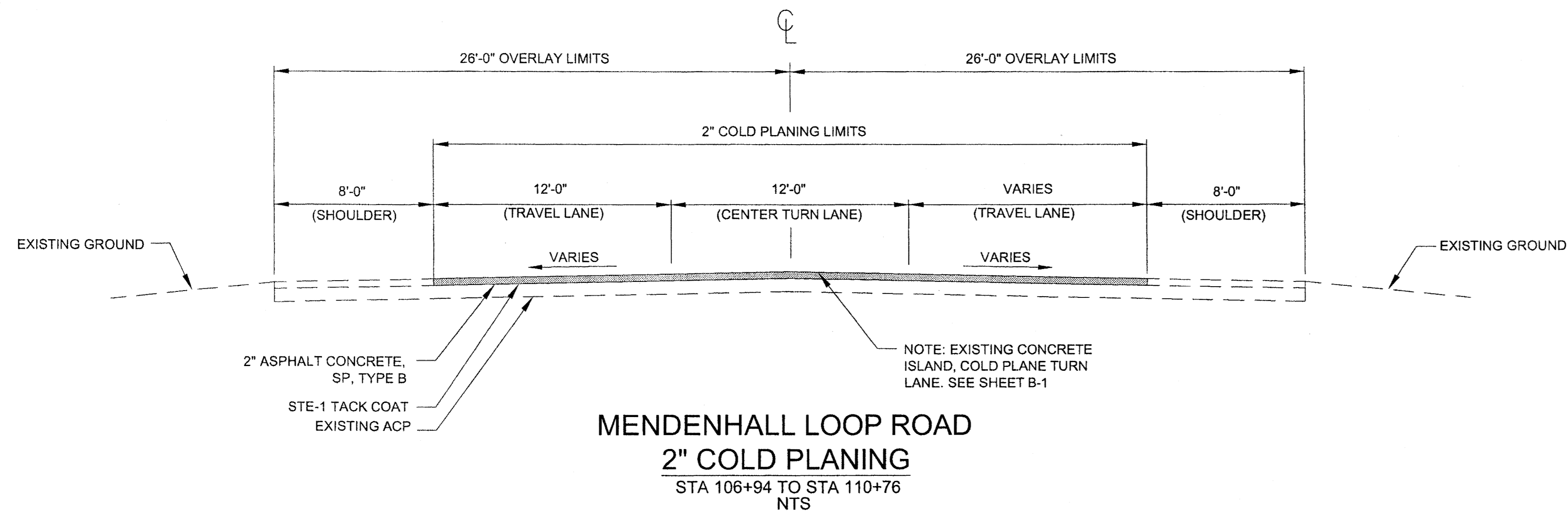
**TYPICAL SECTION
(DOUGLAS HIGHWAY)**

STA 18+97
NTS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 11/24/09

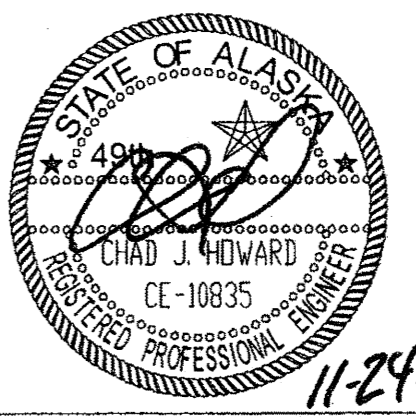
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION			
		JNU-FFY09 AREAWIDE PAVING PROJECT #68837			
		TYPICAL SECTIONS			
DESIGNED BY: D. MULLINER		PROJECT DESIGNATION: HPP-000S(696)-68837			
DRAWN BY: R. GRANTHAM		YEAR: 2009			
PATH: Q:\JNU\68837\PLANSET\68837_A7-A9_TYPICALS.DWG		SHEET NO.: A8			
TAB: A8 Tuesday, November 24, 2009 3:06:16 PM GRANTHAM, RICK L (DOT)		TOTAL SHEETS: 29			
REVISIONS					
NO.	DATE	DESCRIPTION			

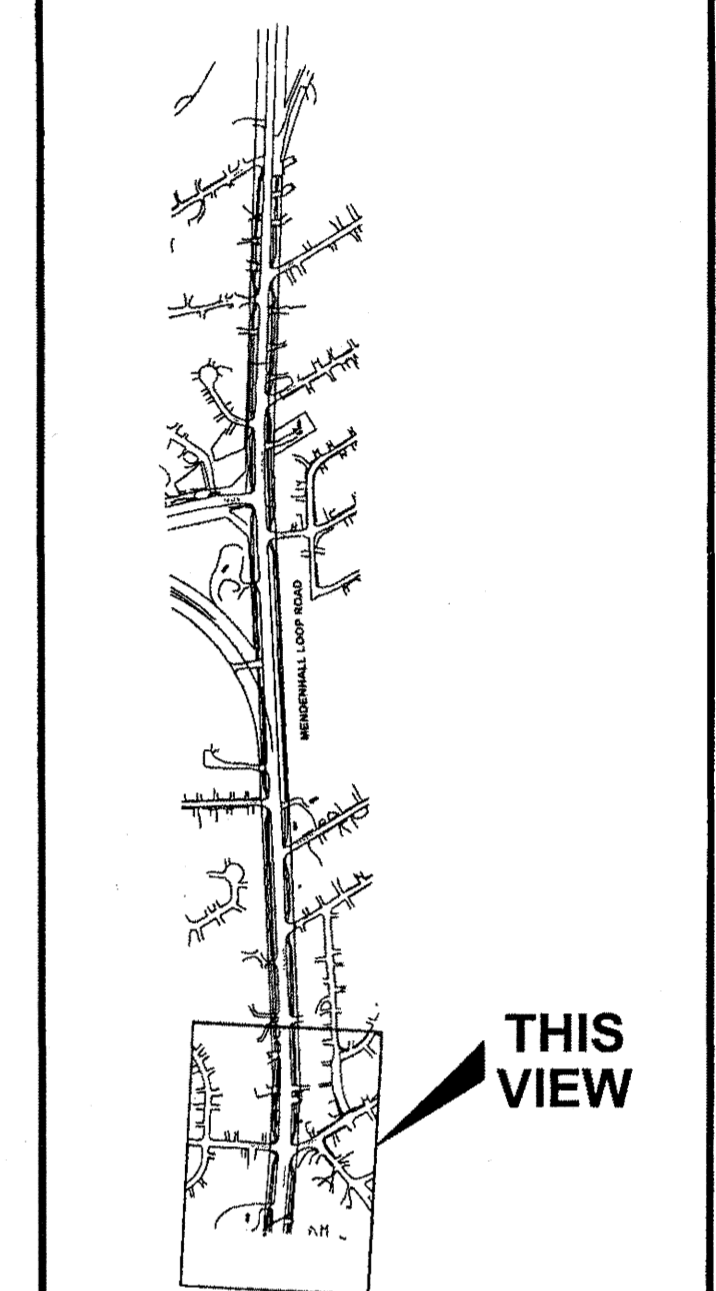


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *J. Deppa* Date *11/24/09*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

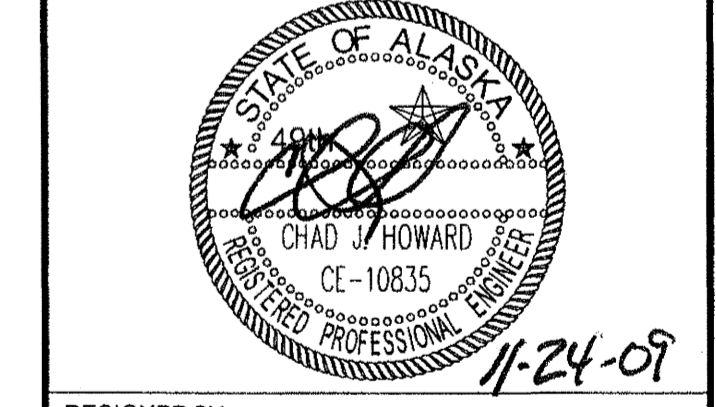
CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION JNU-FFY09 AREAWIDE PAVING PROJECT #68837			
DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM		TYPICAL SECTIONS			
PATH: Q:\JNU\68837\PLANSET\68837_A7-A9_TYPICALS.DWG TAB: A9 Monday, November 23, 2009 4:24:09 PM MULLINER, DOUGLAS J (DOT)		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		HPP-000S(696)-68837	2009	A9	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

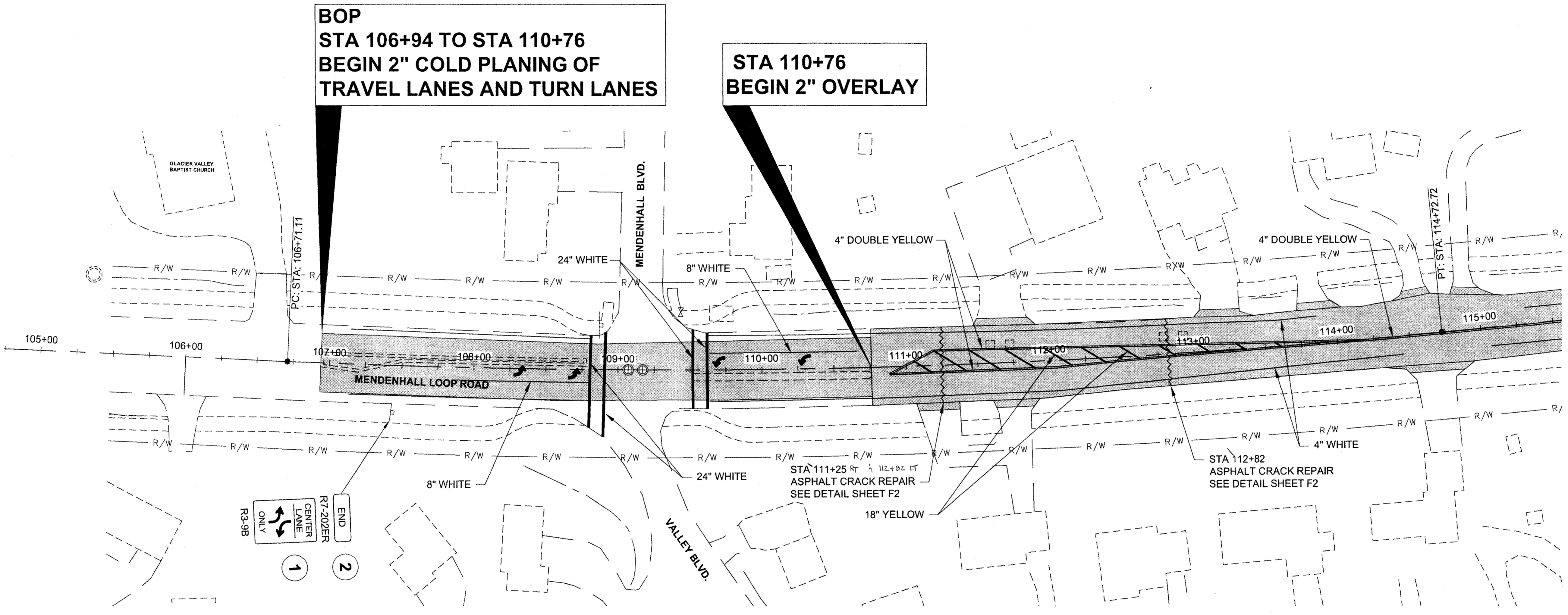
DRAWN BY: R. GRANTHAM
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837
**MENDENHALL
 LOOP ROAD
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009

SHEET NUMBER	TOTAL SHEETS
B1	29



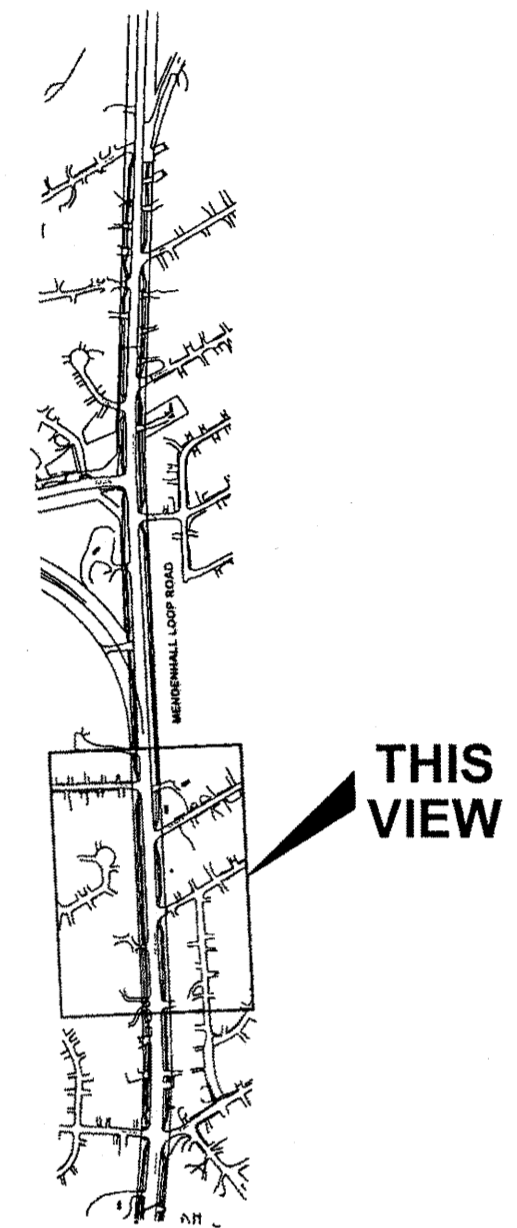
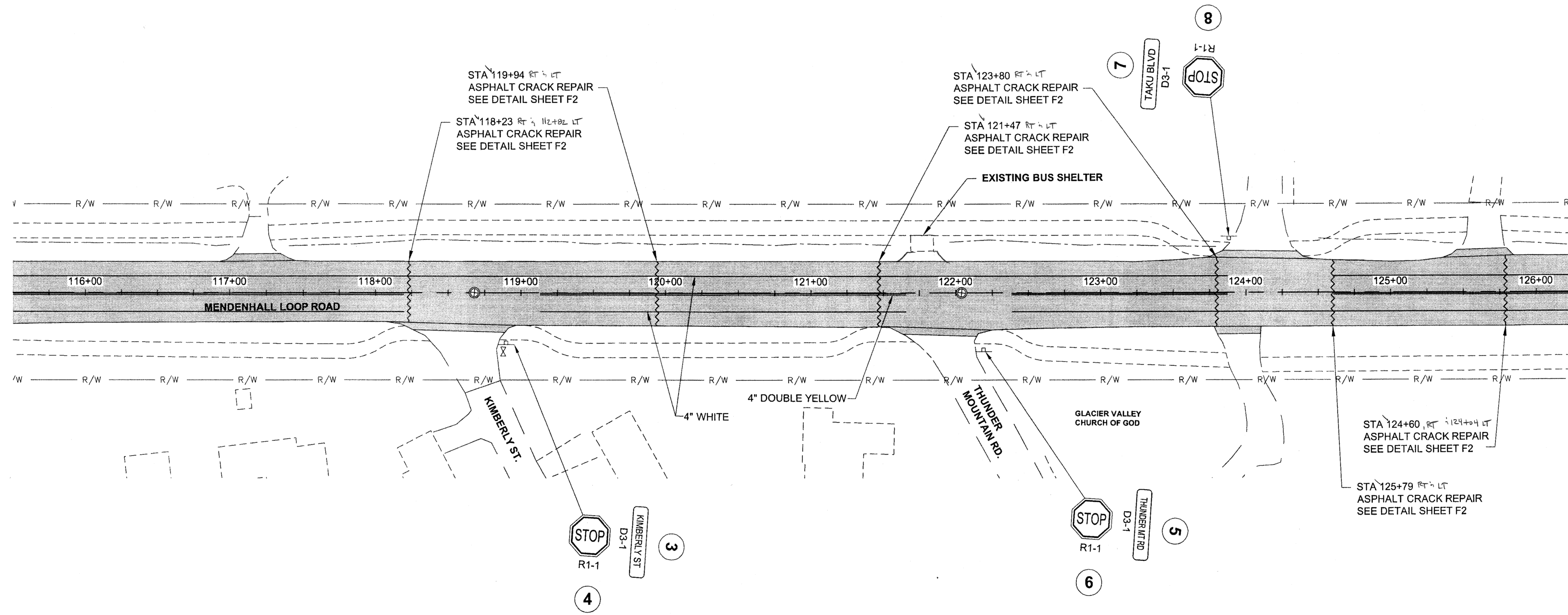
**BOP
 STA 106+94 TO STA 110+76
 BEGIN 2\"/>**

**STA 110+76
 BEGIN 2\"/>**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 11/24/09

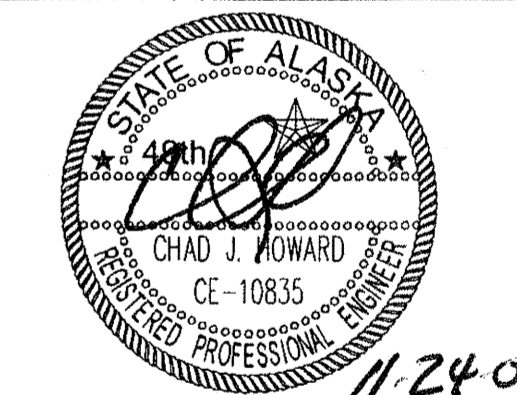
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

**MENDENHALL
 LOOP ROAD
 PLAN VIEW**

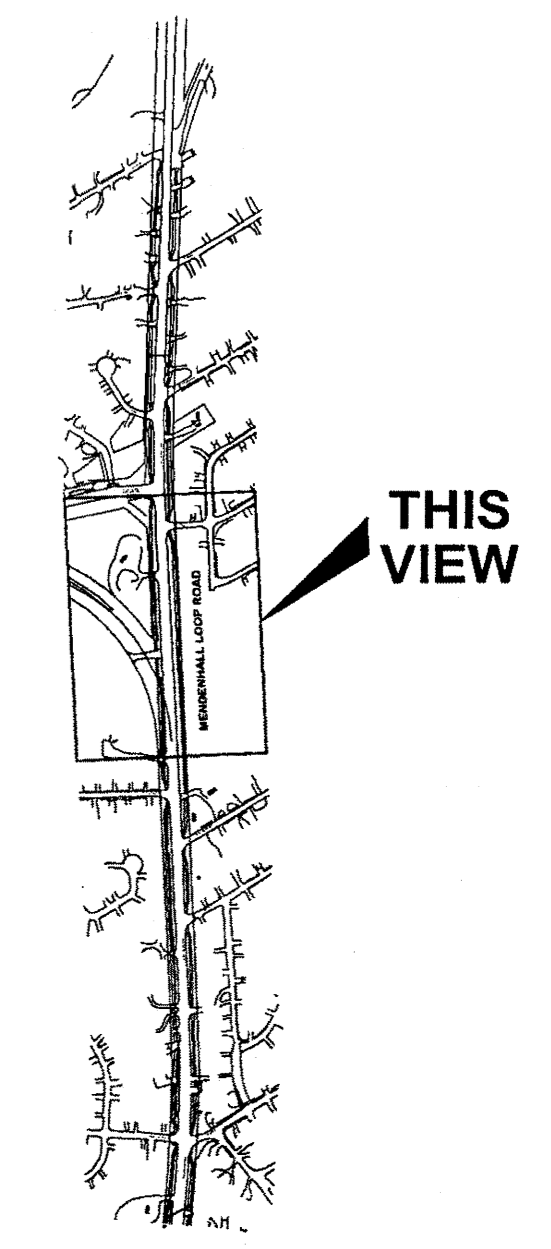
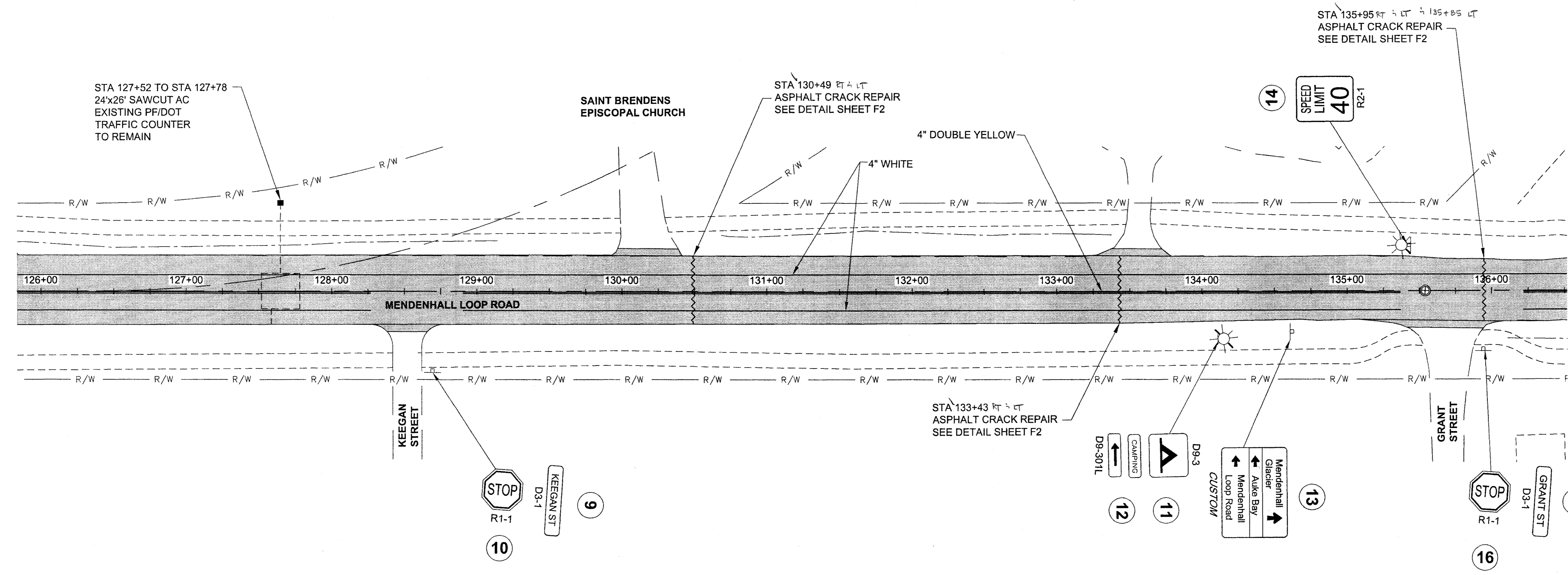
PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
B2	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 11/23/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

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

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

**MENDENHALL
 LOOP ROAD
 PLAN VIEW**

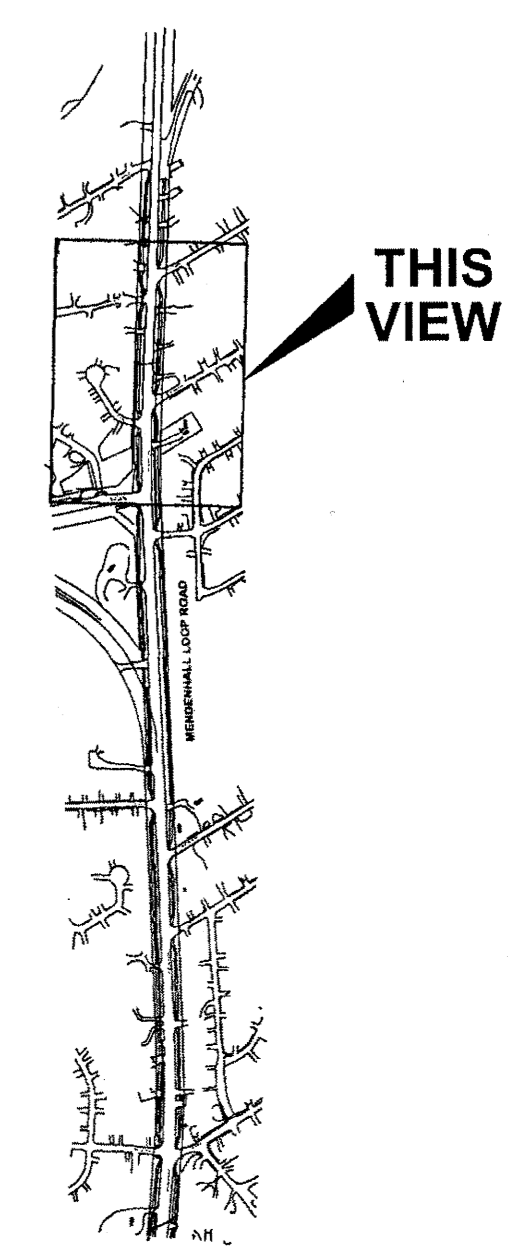
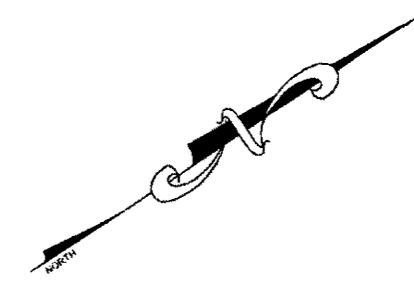
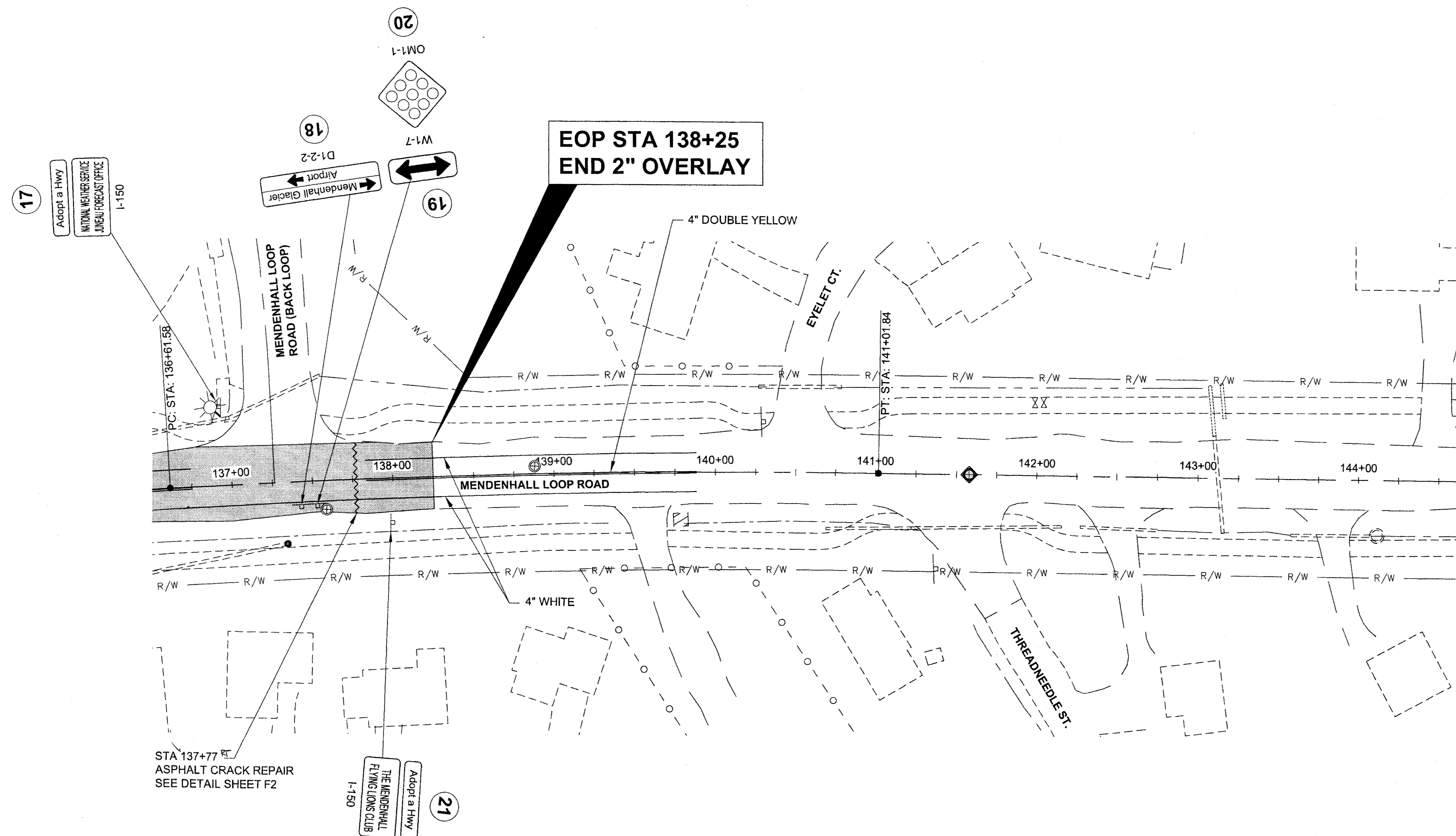
PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
B3	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 7/20/10

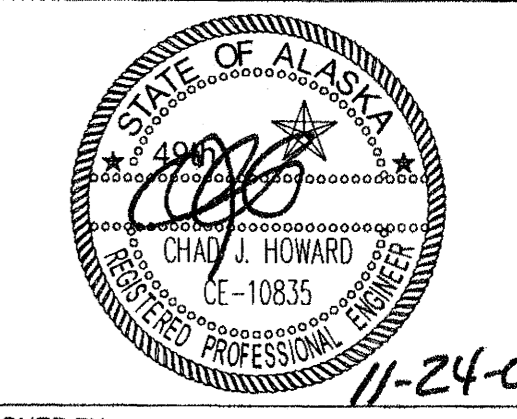
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837
**MENDENHALL
 LOOP ROAD
 PLAN VIEW**

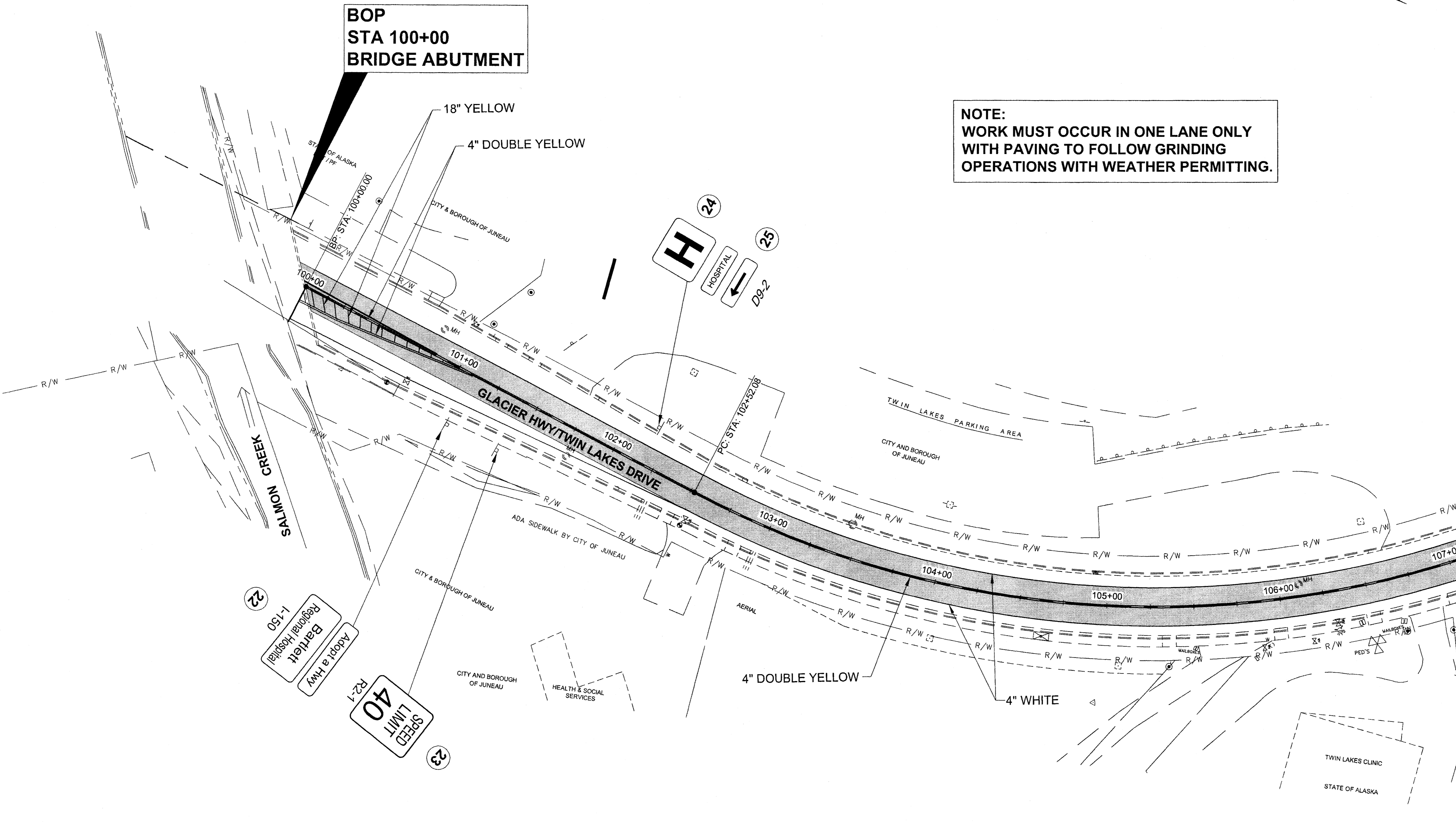
PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
B4	29

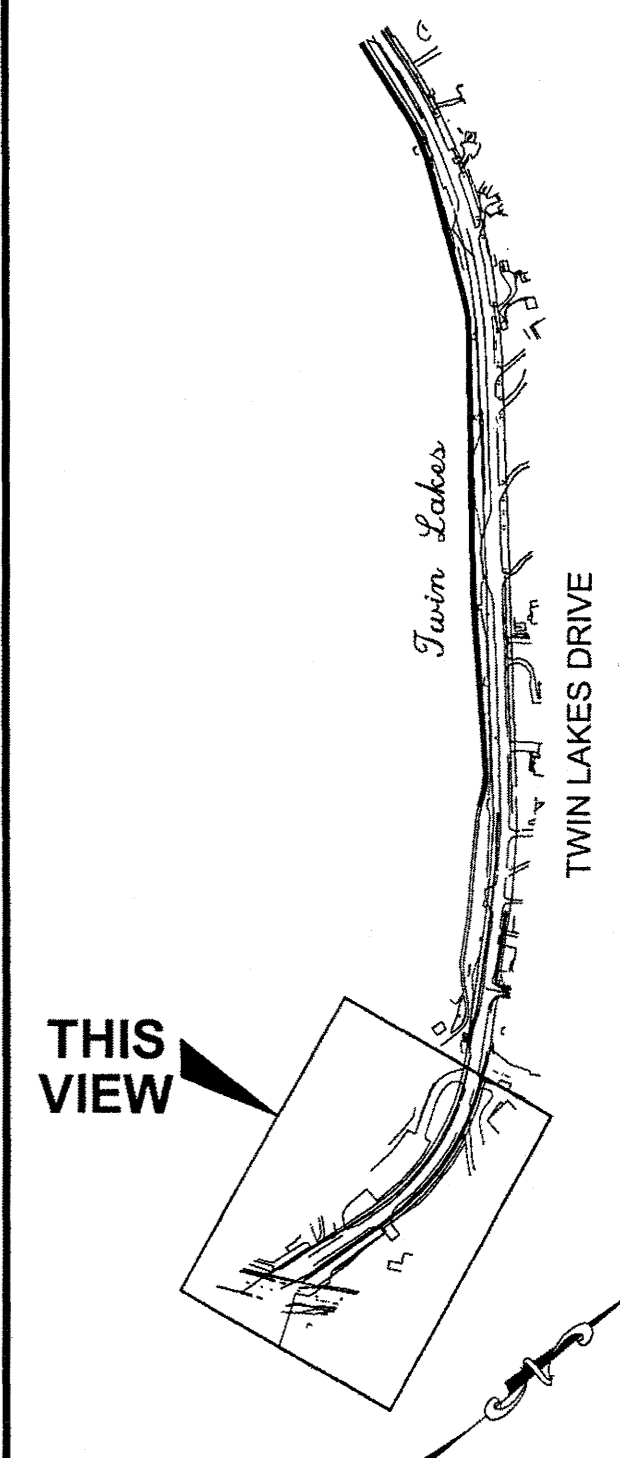
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *[Signature]* Date: 11/24/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

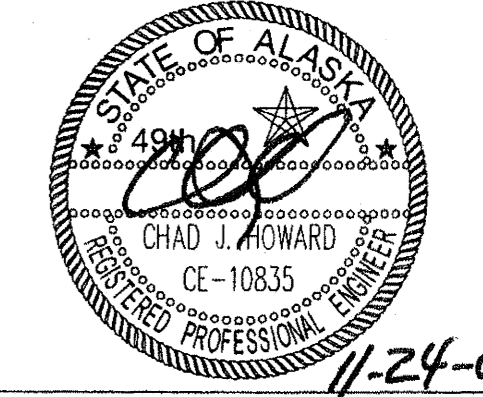


NOTE:
 WORK MUST OCCUR IN ONE LANE ONLY
 WITH PAVING TO FOLLOW GRINDING
 OPERATIONS WITH WEATHER PERMITTING.



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837
**TWIN LAKES
 DRIVE
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

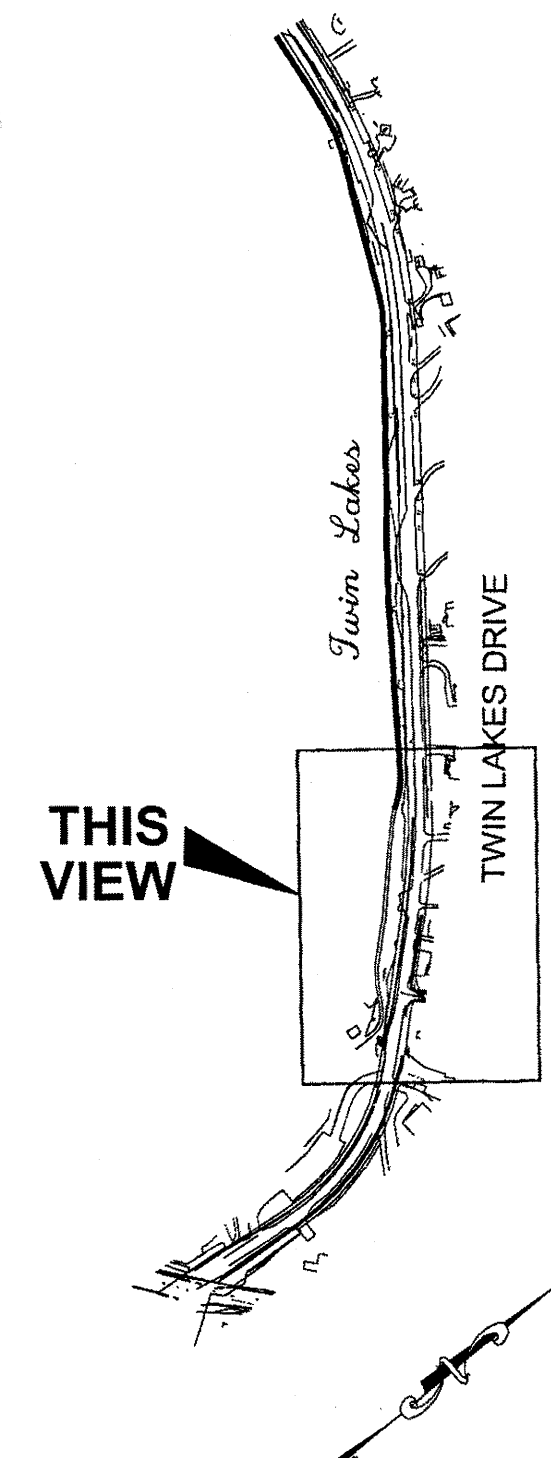
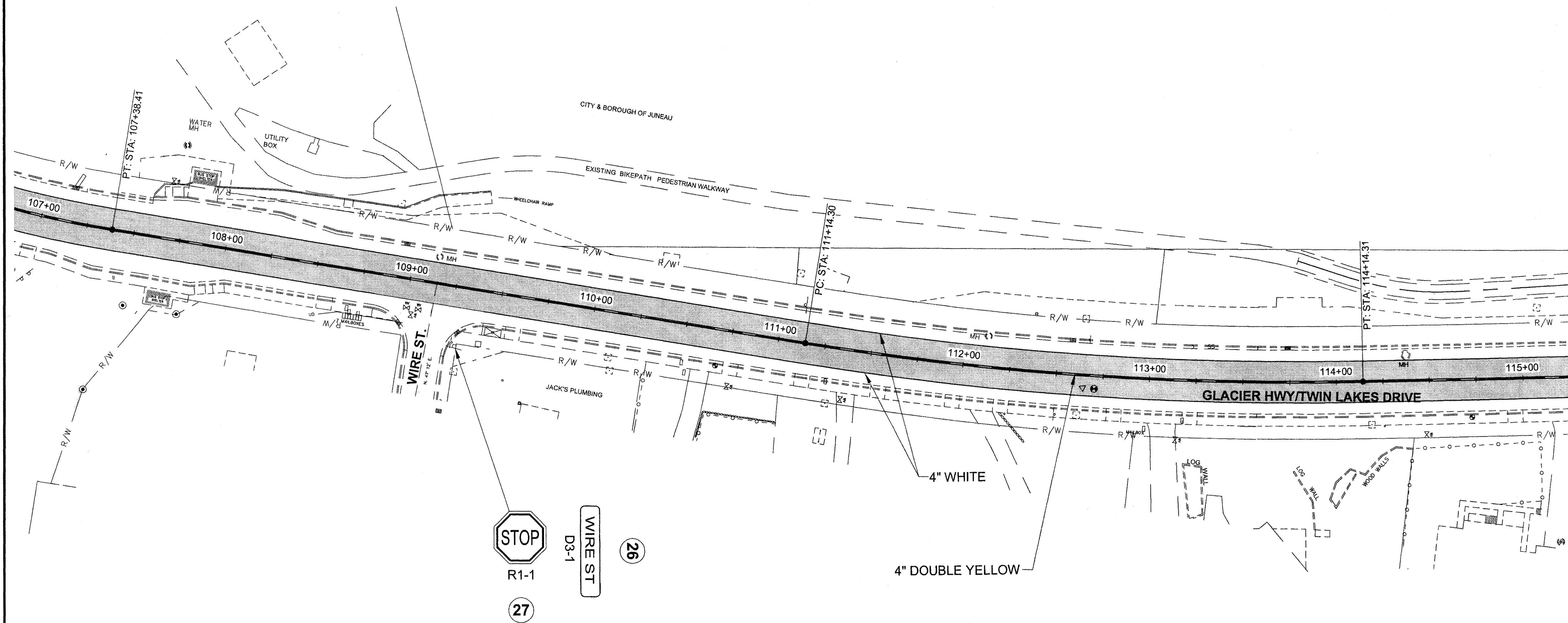
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
C1	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: [Signature] Date: 11/24/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

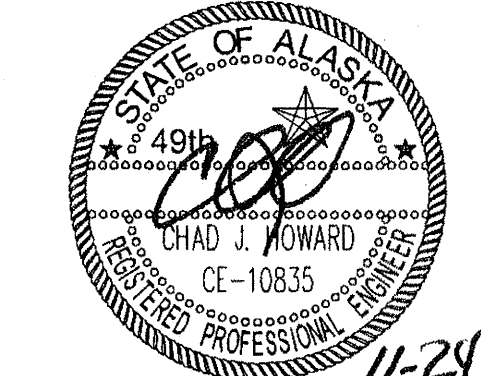
MULLINER, DOUGLAS J (DOT)
 TAB: C2 Monday, November 23, 2009 4:26:16

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837
**TWIN LAKES
 DRIVE
 PLAN VIEW**

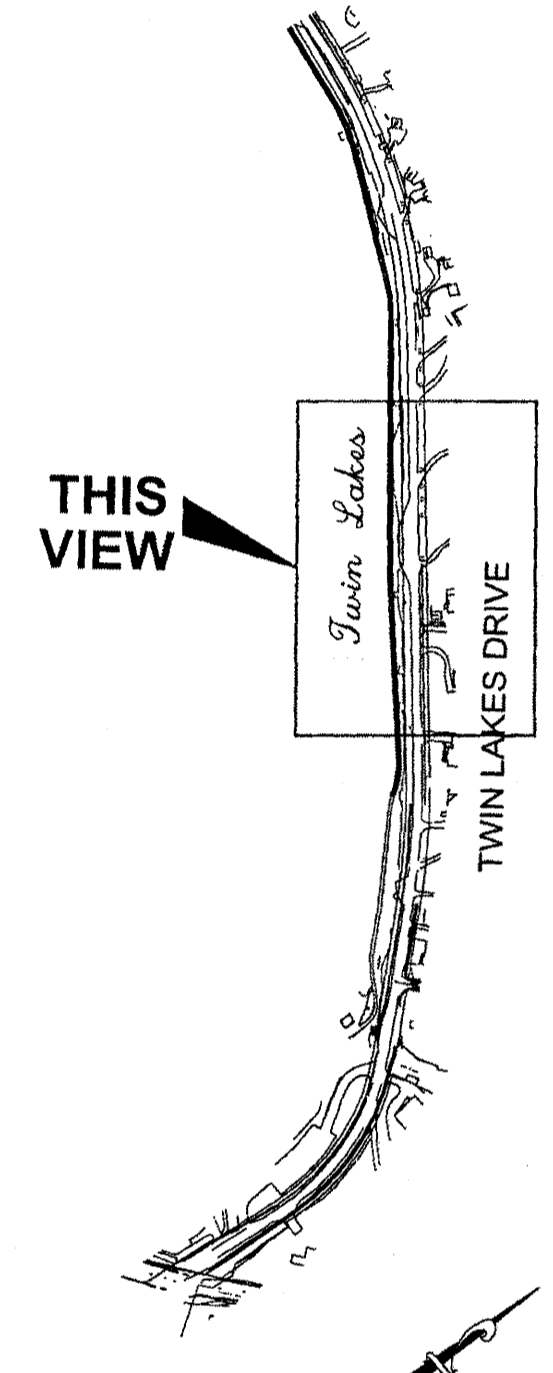
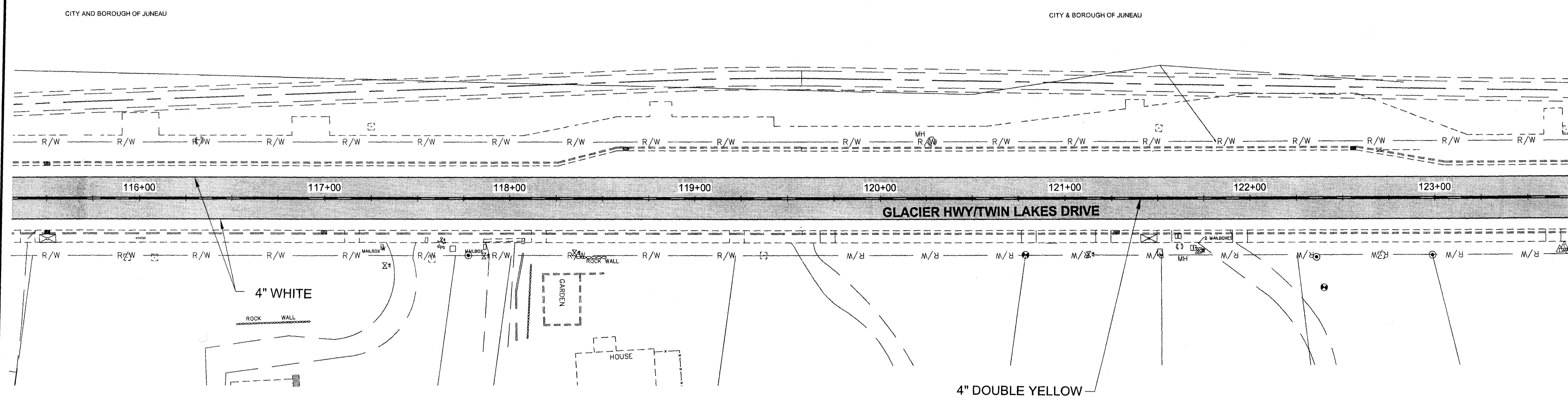
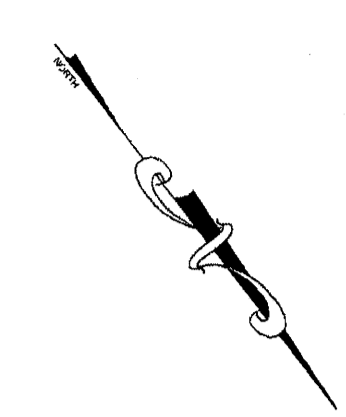
PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
C2	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 11/23/09

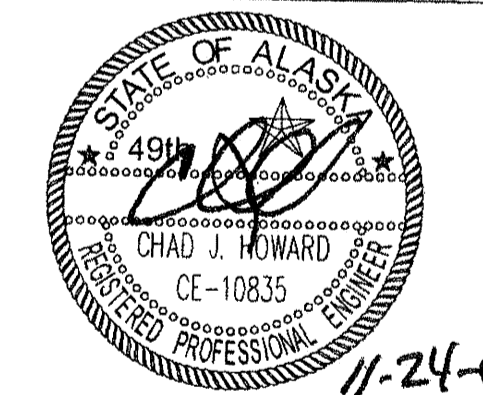
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



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

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837
**TWIN LAKES
 DRIVE
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

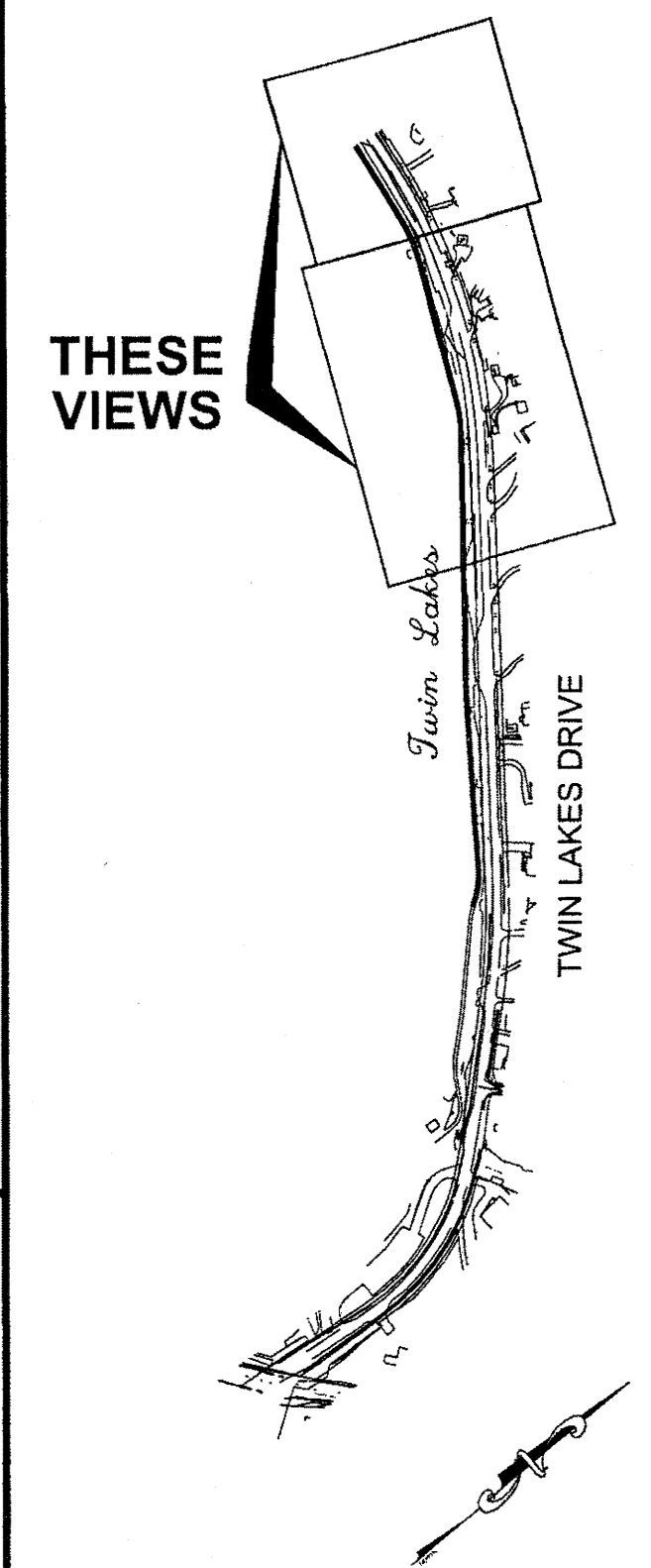
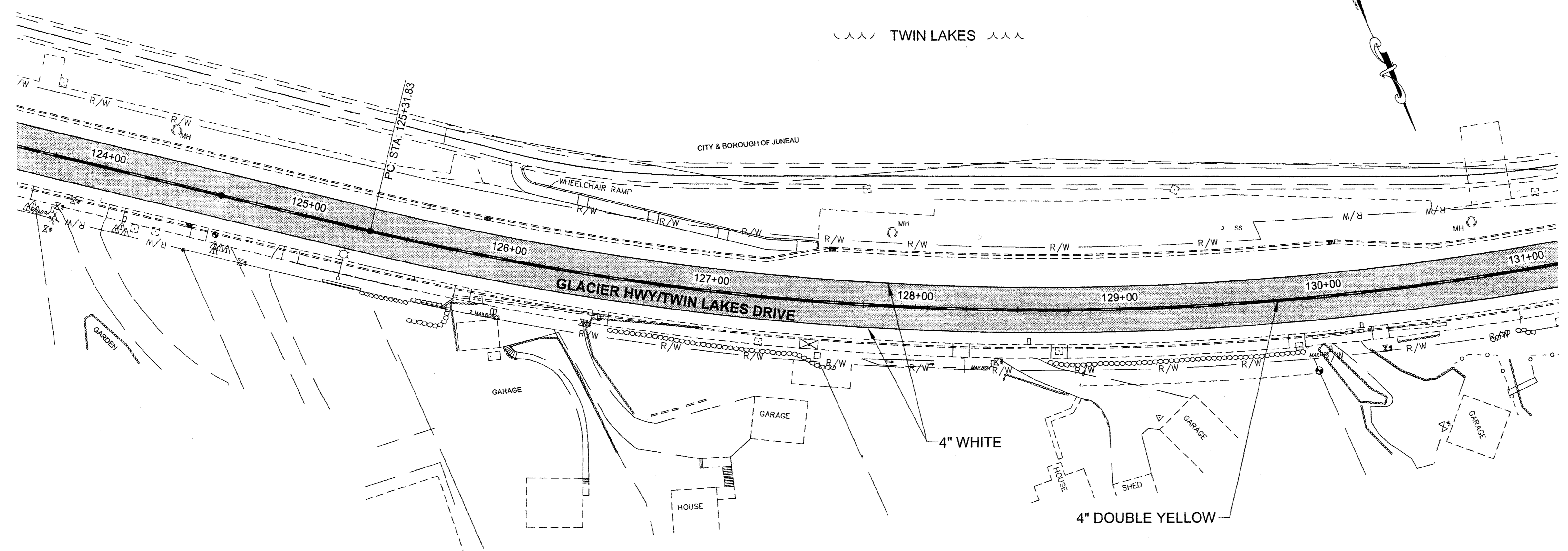
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
C3	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 11/23/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

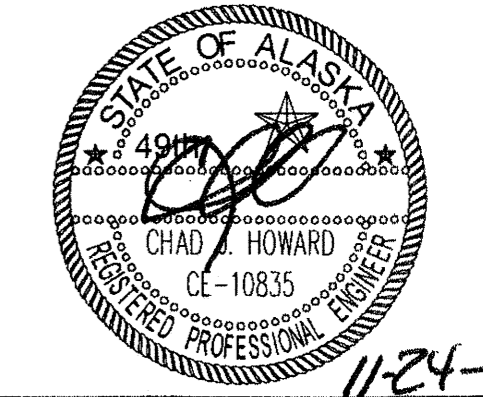
MULLINER, DOUGLAS J (DOT)
 TAB: C4 Monday, November 23, 2009 4:26:36

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

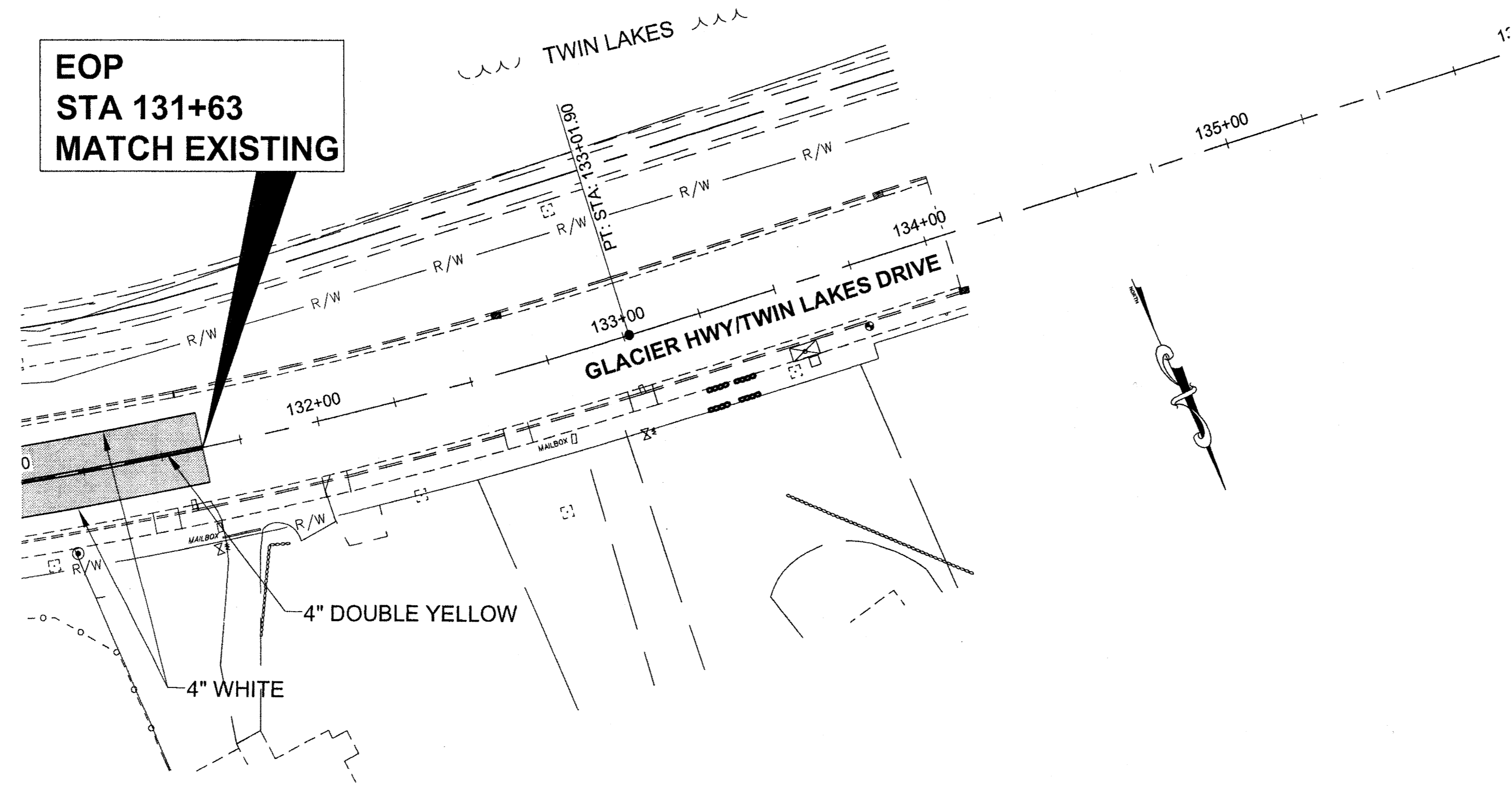
JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

**TWIN LAKES DRIVE
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
C4	29

**EOP
 STA 131+63
 MATCH EXISTING**



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *[Signature]* Date: *11/23/09*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

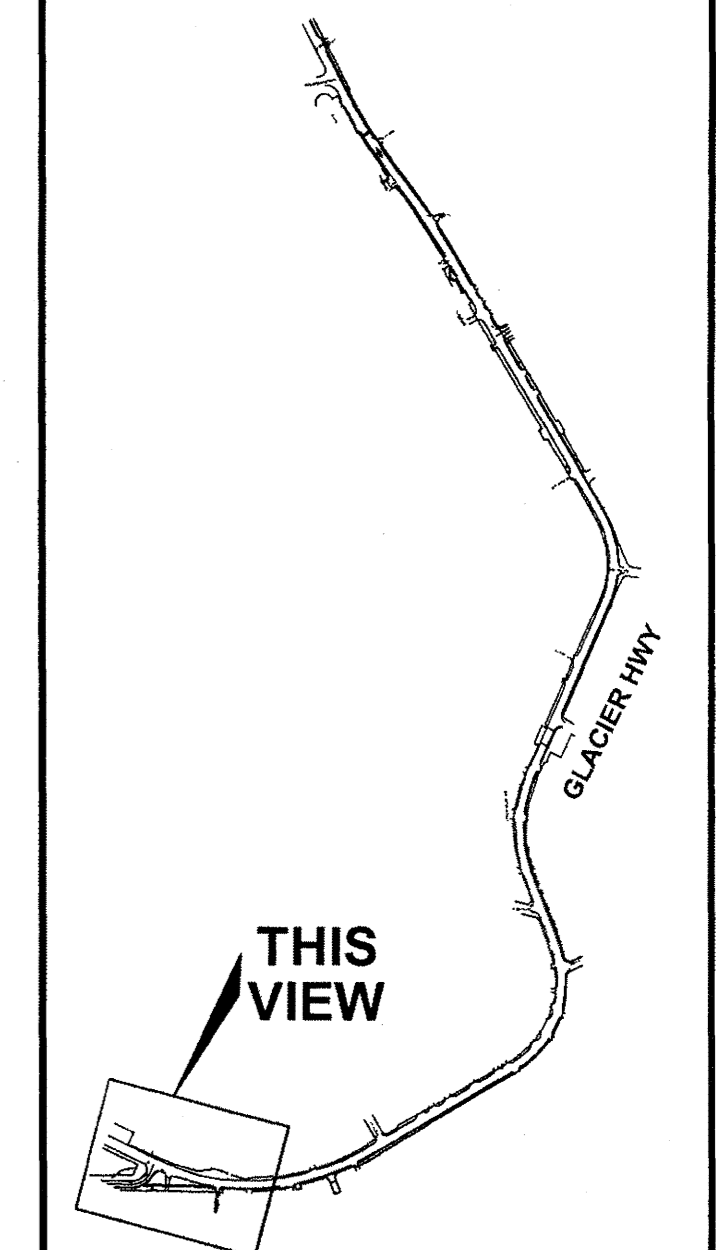
GRANTHAM, RICK L (DOT)
 TAB: D1 Tuesday, November 24, 2009 2:51:11

ADDENDUM NUMBER

ATTACHMENT NUMBER

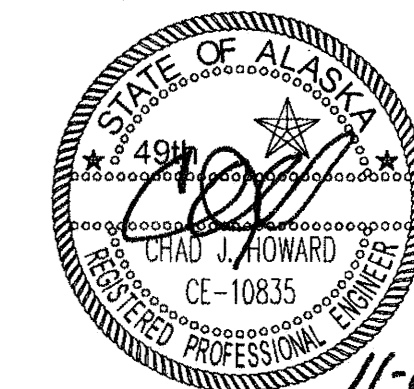
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

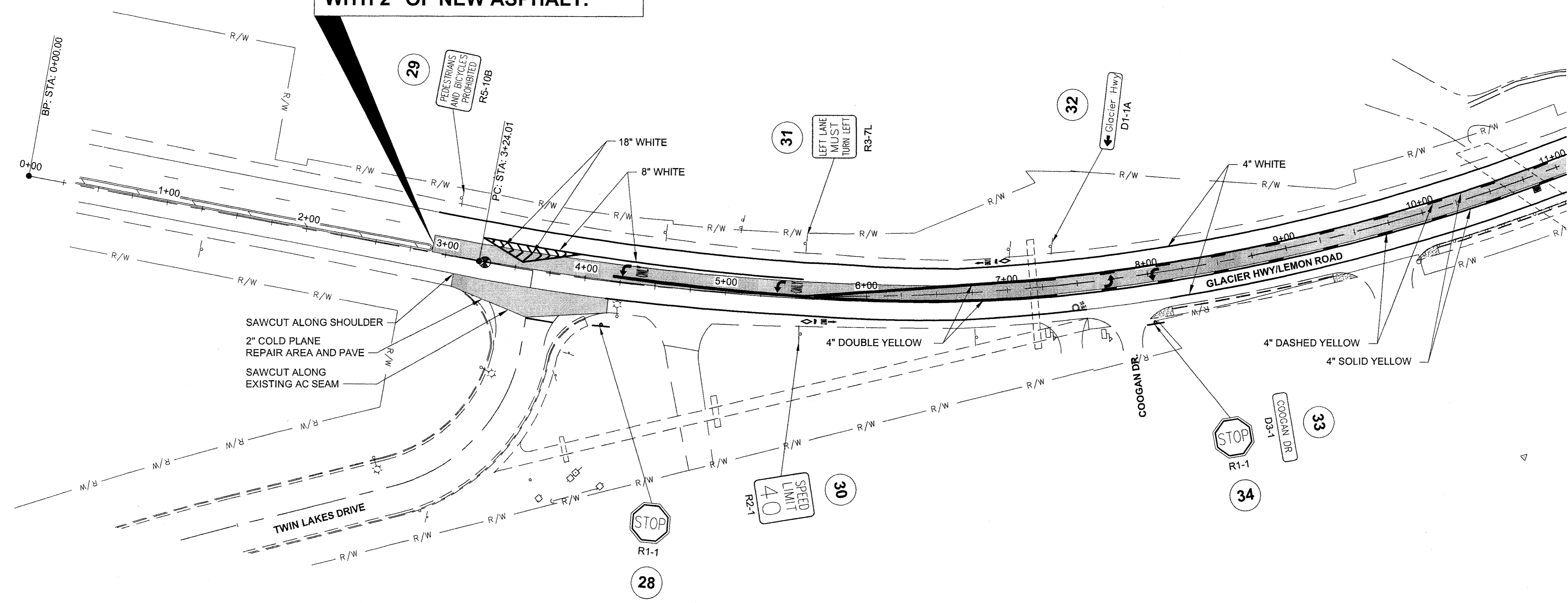
**LEMON ROAD
 PLAN VIEW**

PROJECT DESIGNATION

HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
D1	29

**BOP
 STA 2+90 TO STA 30+75
 BEGIN 2" COLD PLANING OF
 EXISTING ASPHALT & REPLACE
 WITH 2" OF NEW ASPHALT.**



SAWCUT ALONG SHOULDER
 2" COLD PLANE
 REPAIR AREA AND PAVE
 SAWCUT ALONG
 EXISTING AC SEAM

INTERSECTION APPROACH ARROWS AND "ONLY" MARKINGS
 TO BE WHITE PAINT. SEE STD DWGS T-21.02 AND T-22.03

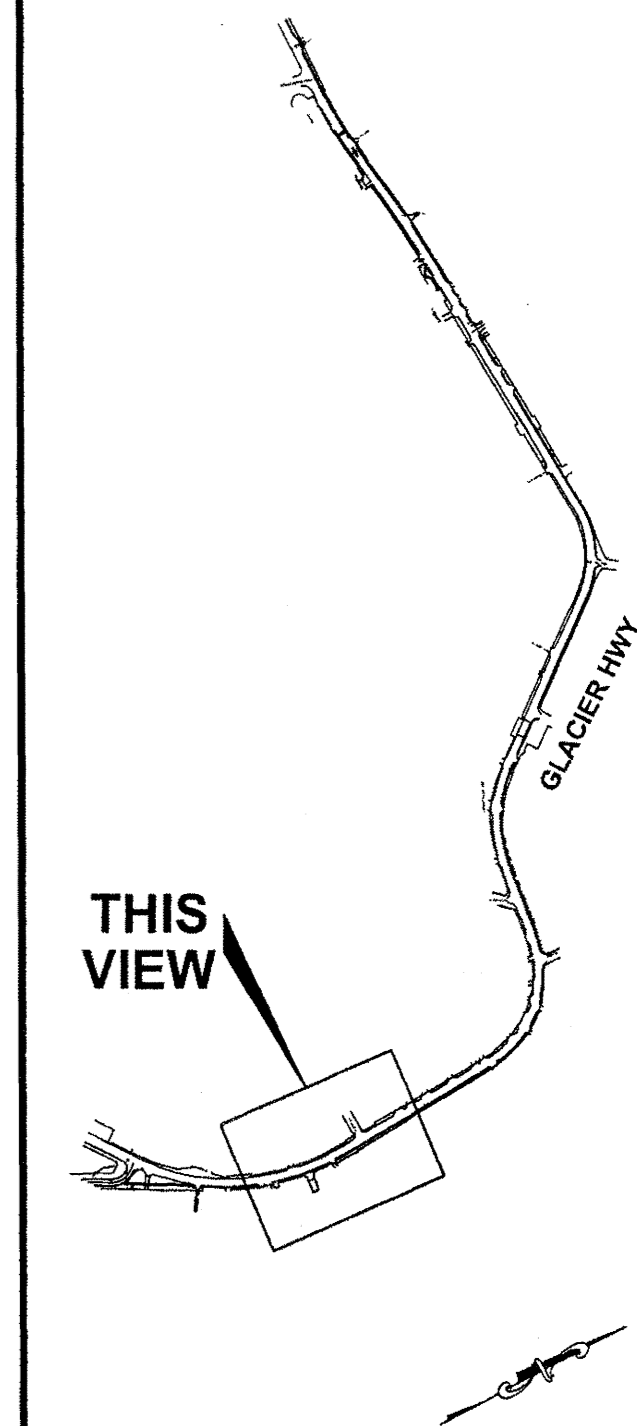
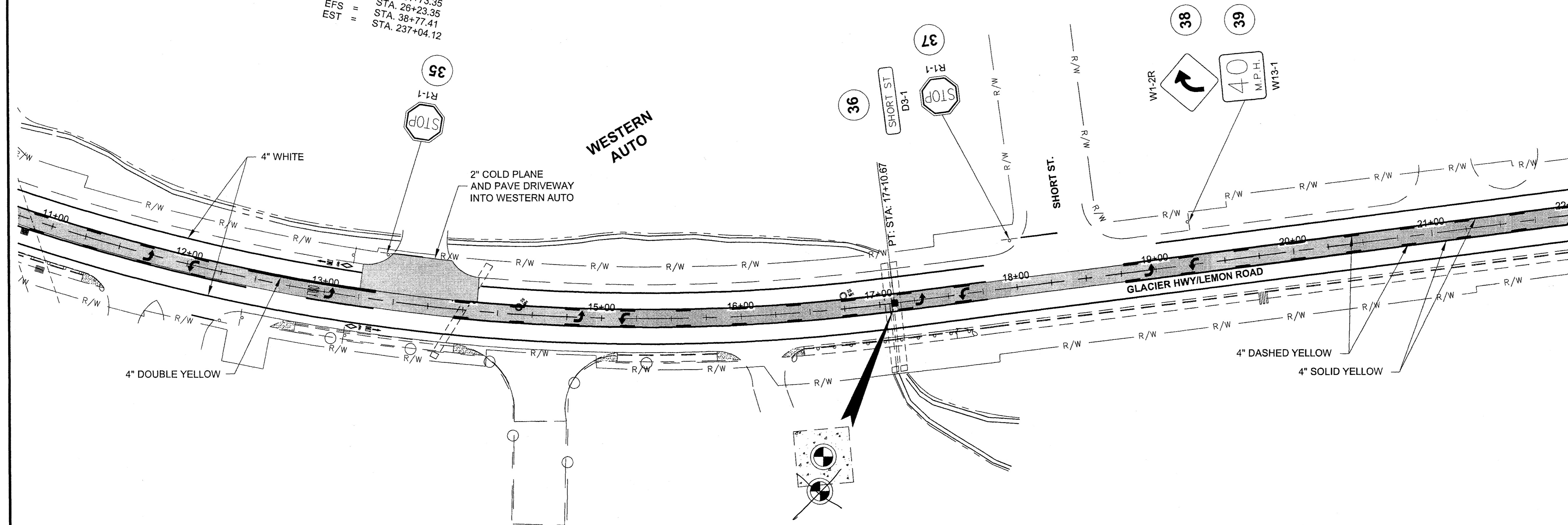
Project As-Built Drawings have been
 reviewed by the Project Engineer and
 represent to the best of my knowledge,
 the project as constructed.
 PE: *[Signature]* Date: *11/24/09*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

GRANTHAM, RICK L (DOT)
 TAB: D2 Tuesday, November 24, 2009 2:51:3

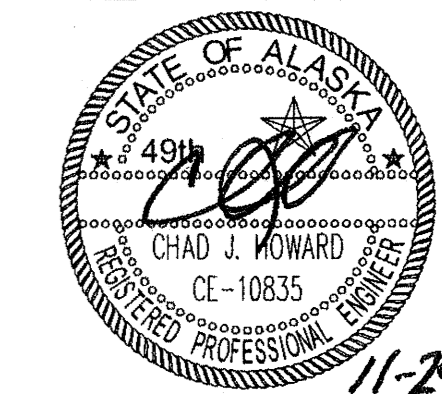
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

"L" LINE DATA
 $\Delta = 55^\circ 10' 39"$
 $D = 04^\circ \text{ LEFT}$
 $T = 748.48'$
 $L = 1,379.44'$
 $S = 4\%$
 BST = STA. 24+73.35
 BFS = STA. 26+23.35
 EFS = STA. 38+77.41
 EST = STA. 237+04.12



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

**LEMON ROAD
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

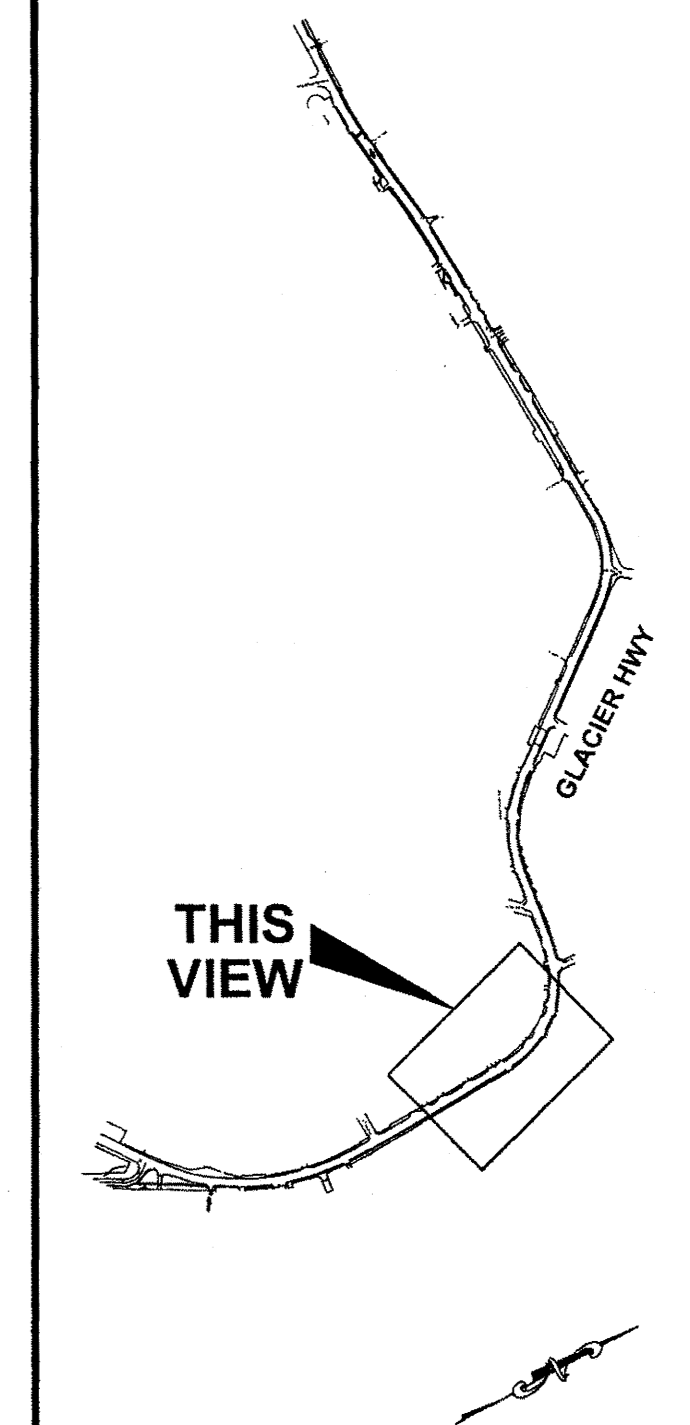
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
D2	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date *11/24/09*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

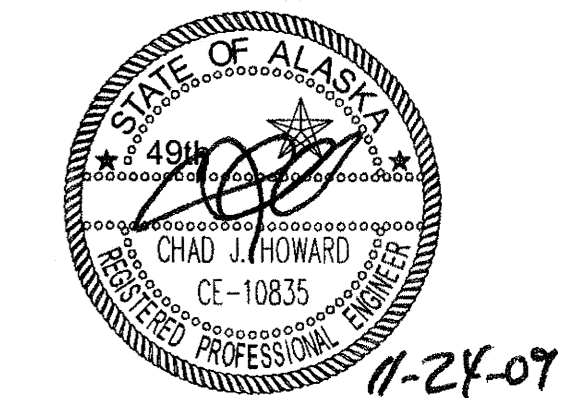
GRANTHAM, RICK L (DOT)
 TAB: D3 Tuesday, November 24, 2009 3:04:2

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

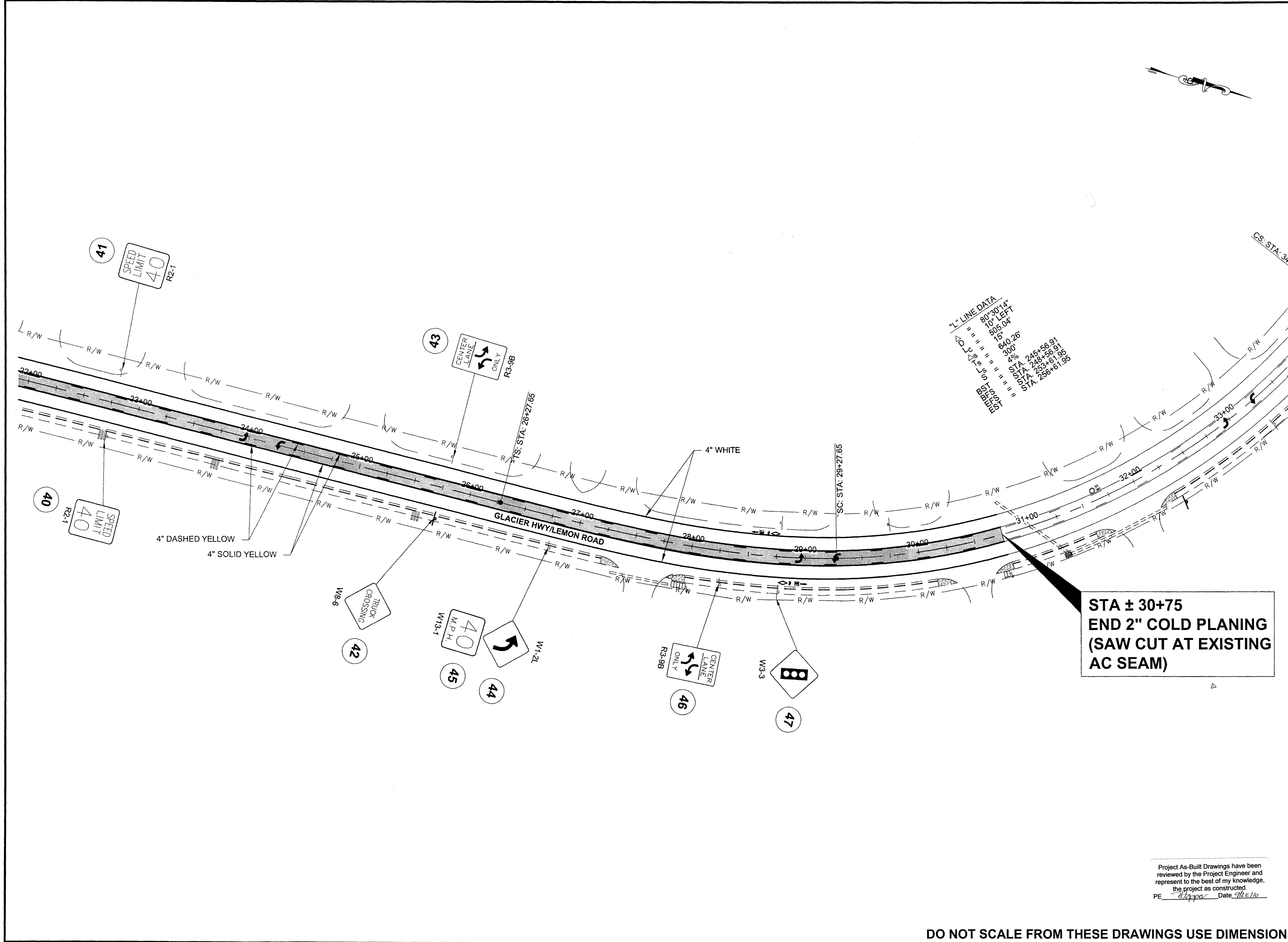
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

**LEMON ROAD
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
D3	29



"L" LINE DATA
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 10° LEFT
 503.04'
 16'
 640.26'
 300'
 4%
 STA. 245+56.91
 STA. 248+56.91
 STA. 253+61.99
 STA. 256+61.99

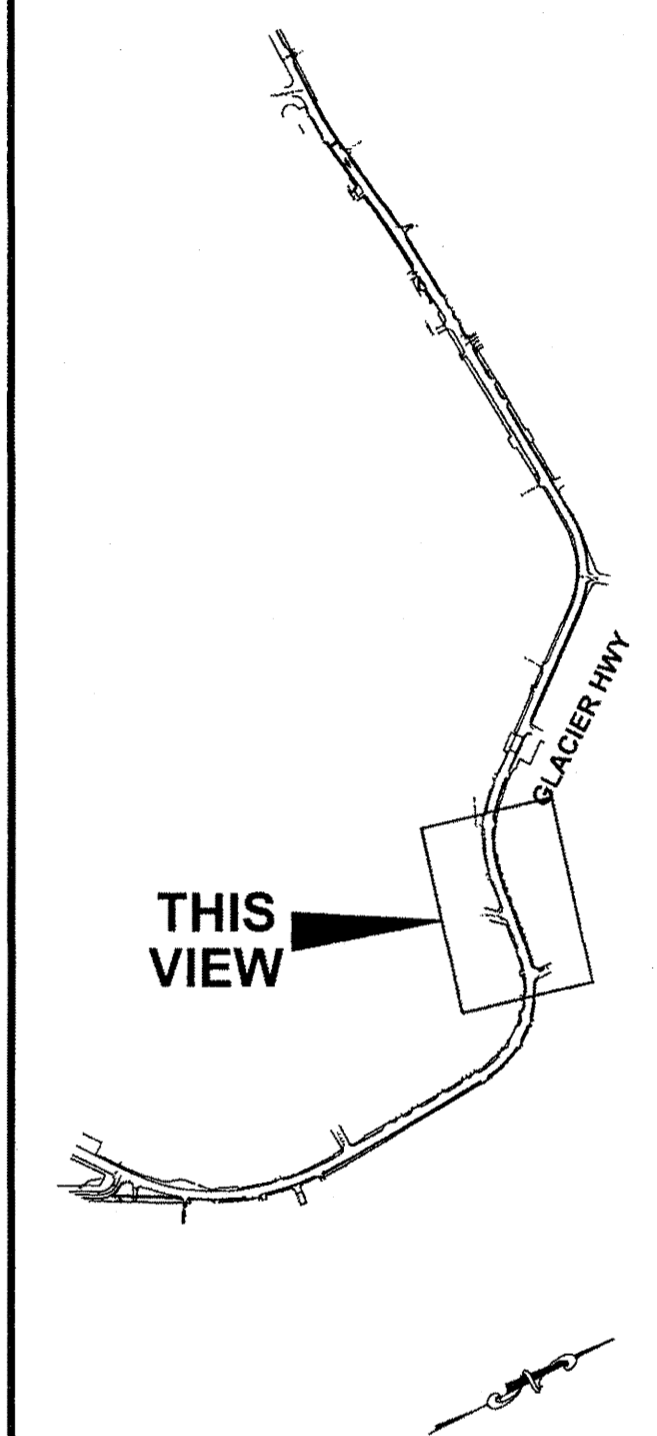
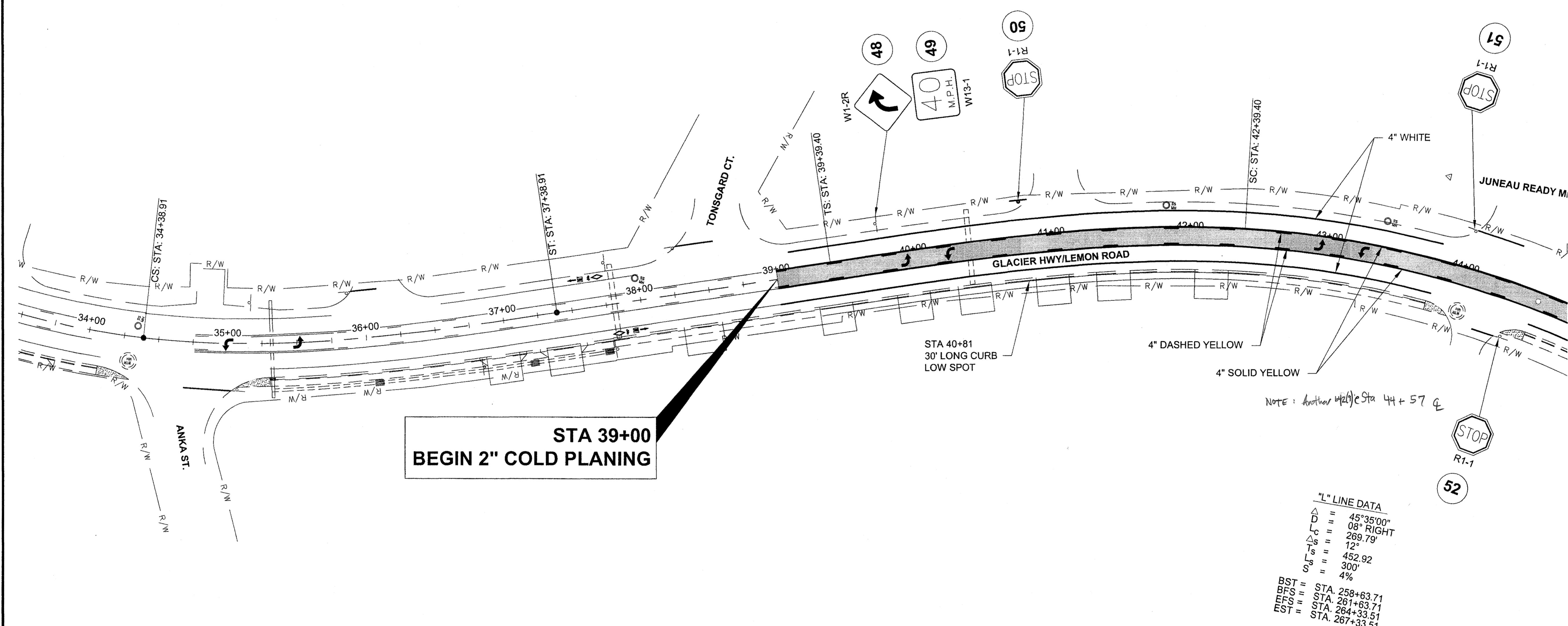
**STA ± 30+75
 END 2" COLD PLANING
 (SAW CUT AT EXISTING
 AC SEAM)**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: [Signature] Date: 11/24/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

GRANTHAM, RICK L (DOT)
 TAB: D4 Tuesday, November 24, 2009 2:51:5

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



"L" LINE DATA
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 $D = 08^{\circ}$ RIGHT
 $L_c = 269.79'$
 $\Delta_s = 12^{\circ}$
 $T_s = 452.92'$
 $C_s = 300'$
 $G_s = 4\%$
 BST = STA. 258+63.71
 BFS = STA. 261+63.71
 EFS = STA. 264+33.51
 EST = STA. 267+33.51

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: [Signature] Date: 11/24/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\JNU\168837\PLANSET\168837_D1-D8_PLAN.D

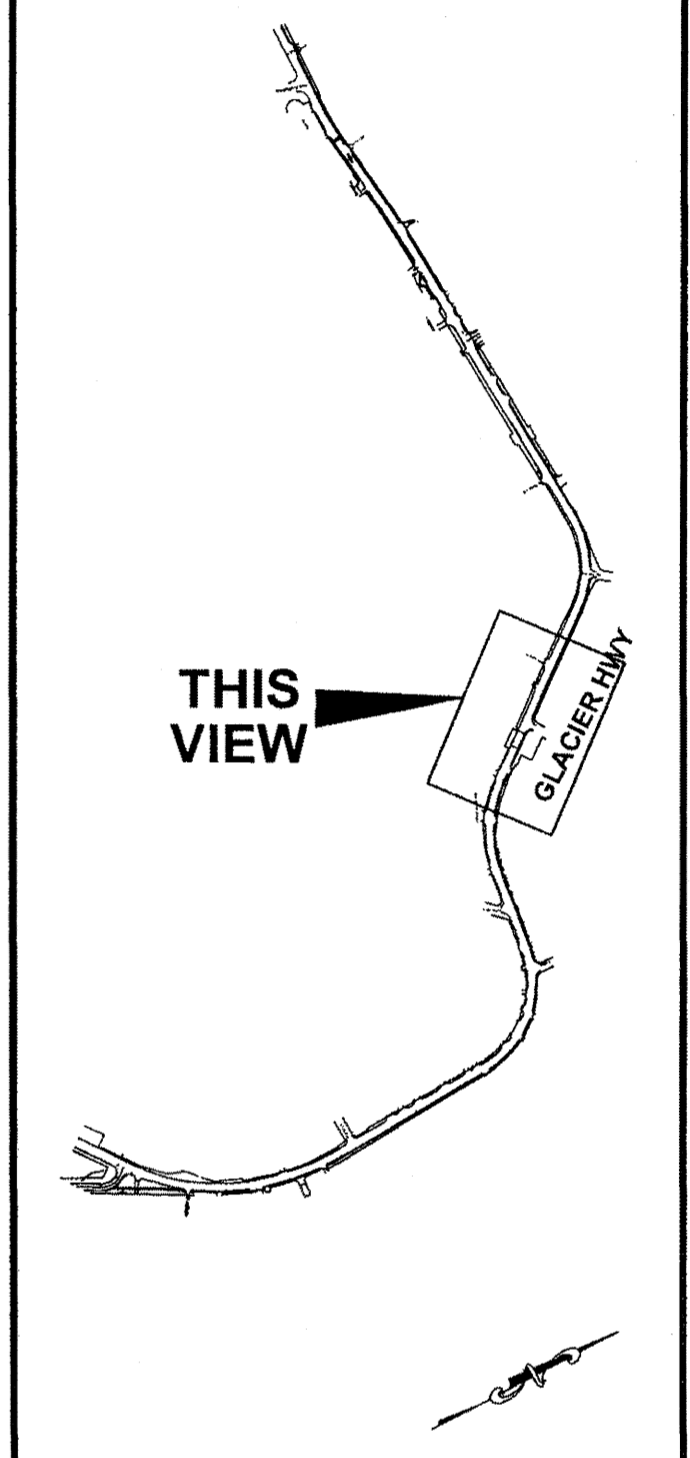
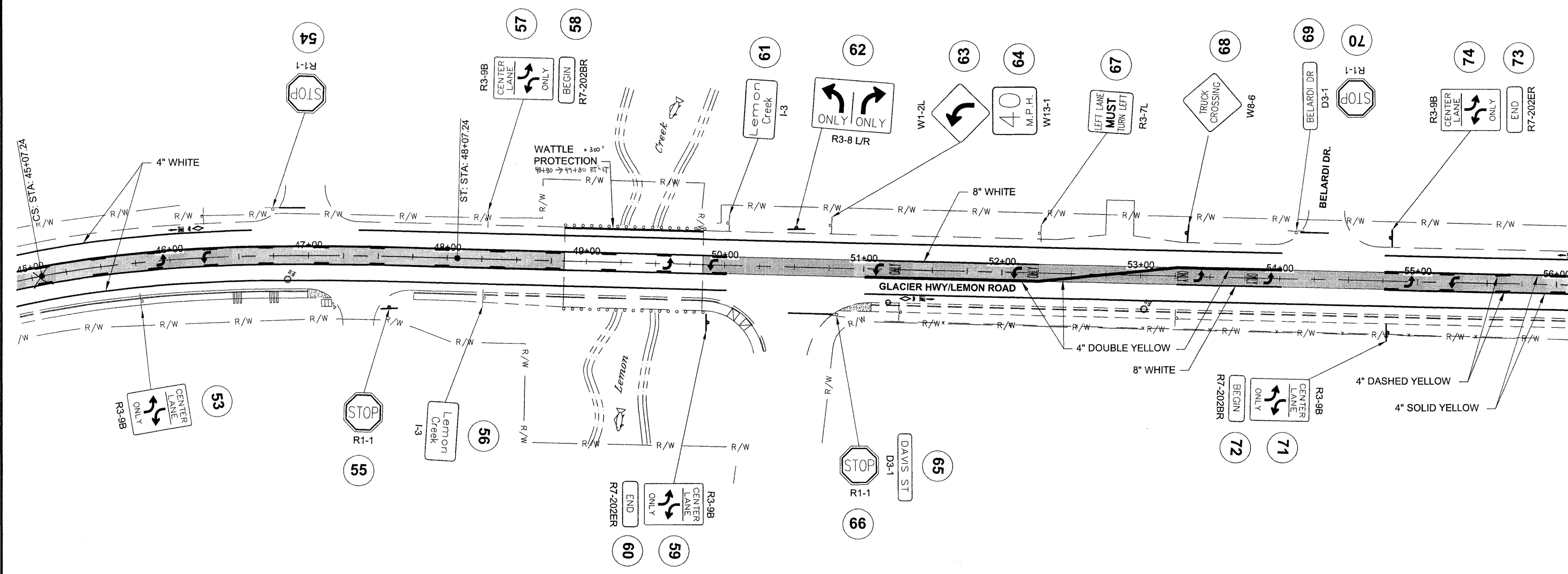
GRANTHAM, RICK L (DOT)
 TAB: D5 Tuesday, November 24, 2009 2:54:11

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

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

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

**LEMON ROAD
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

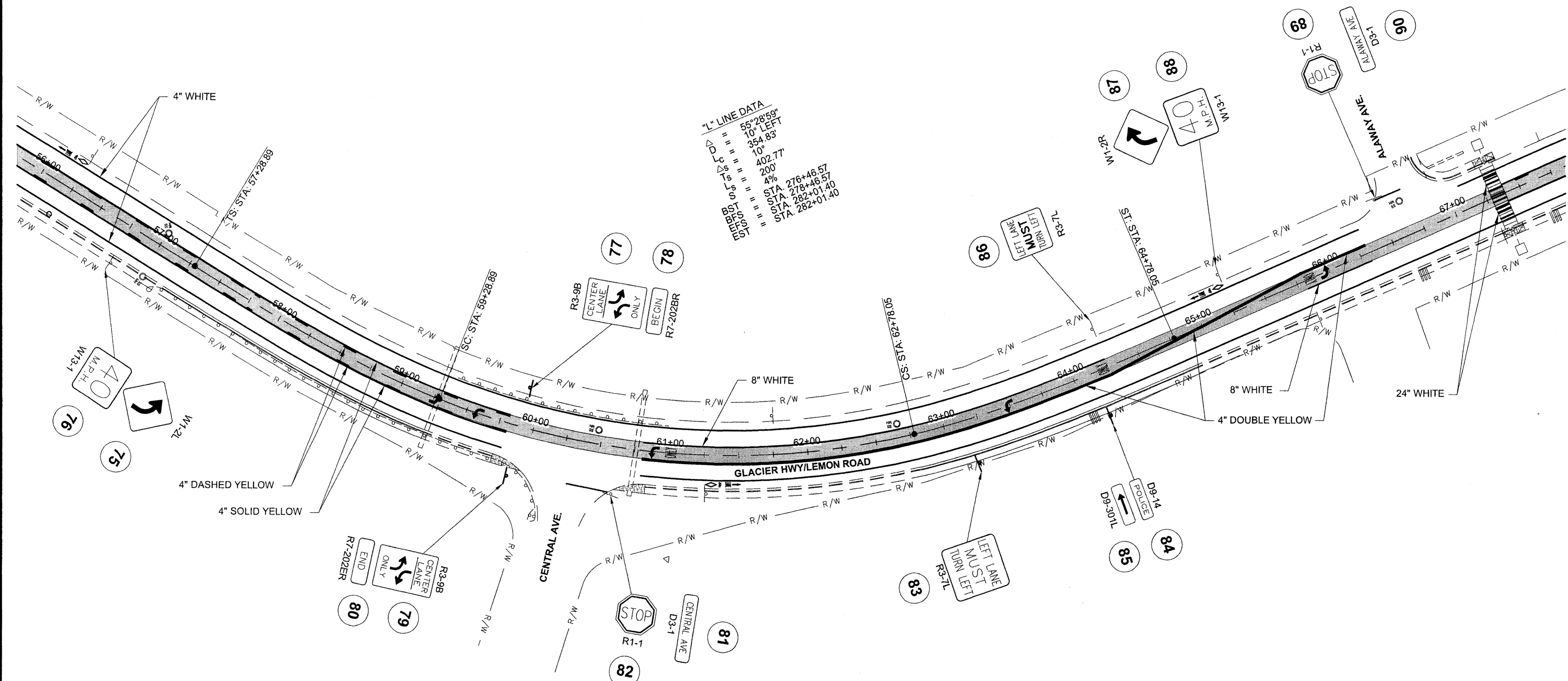
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
D5	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: [Signature] Date 9/28/10

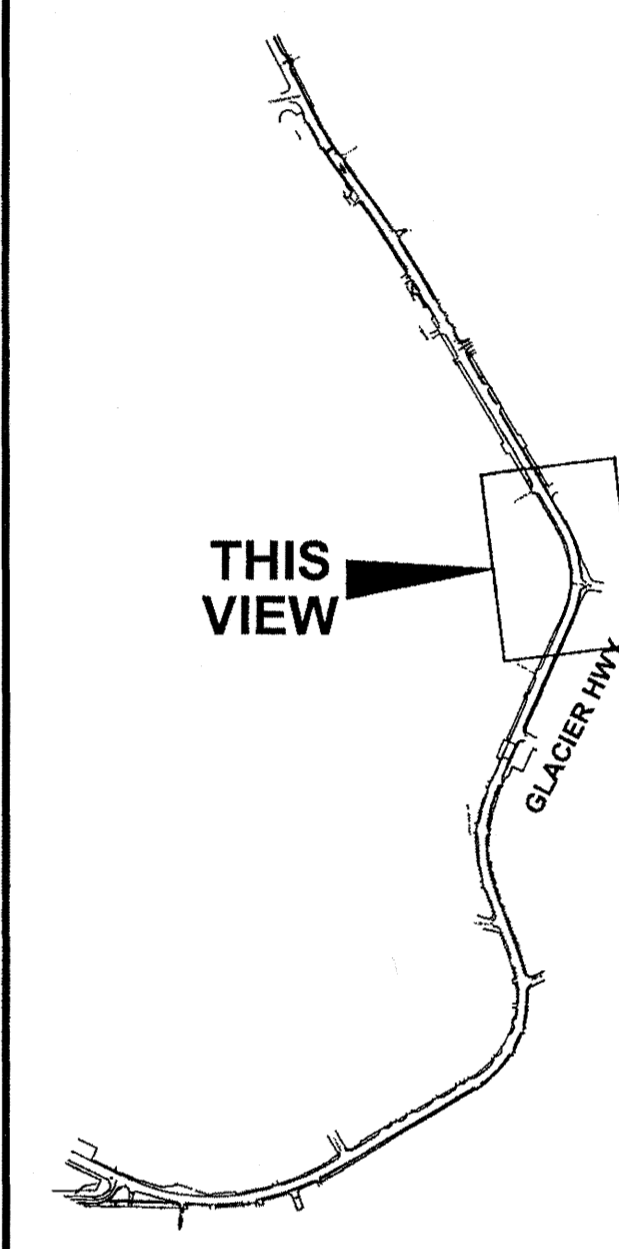
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

GRANTHAM, RICK L (DOT)
 TAB: D6 Tuesday, November 24, 2009 2:57:22

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



"L" LINE DATA
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 10' LEFT
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 10'
 402.77'
 200'
 4%
 STA. 276+46.57
 STA. 278+46.57
 STA. 282+01.40
 STA. 282+01.40



THIS VIEW

PLAN LEGEND

CHECKED BY: C. HOWARD

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

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

**LEMON ROAD
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
D6	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE [Signature] Date 11/24/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

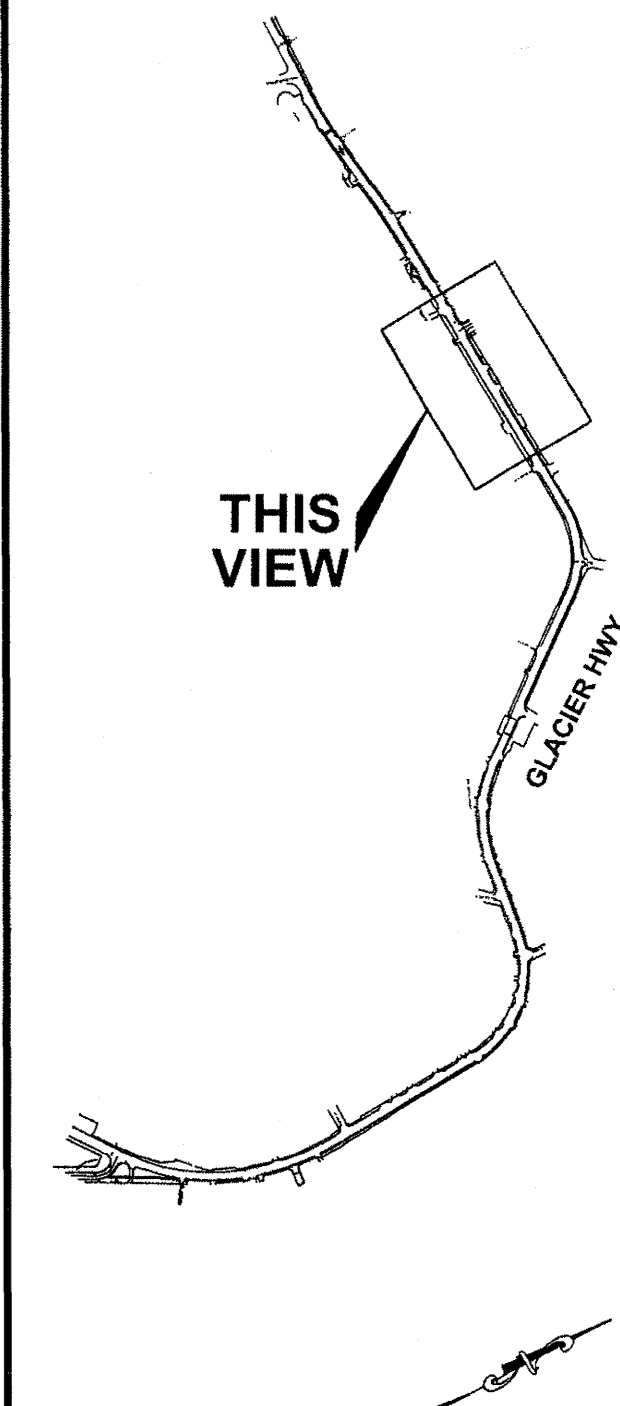
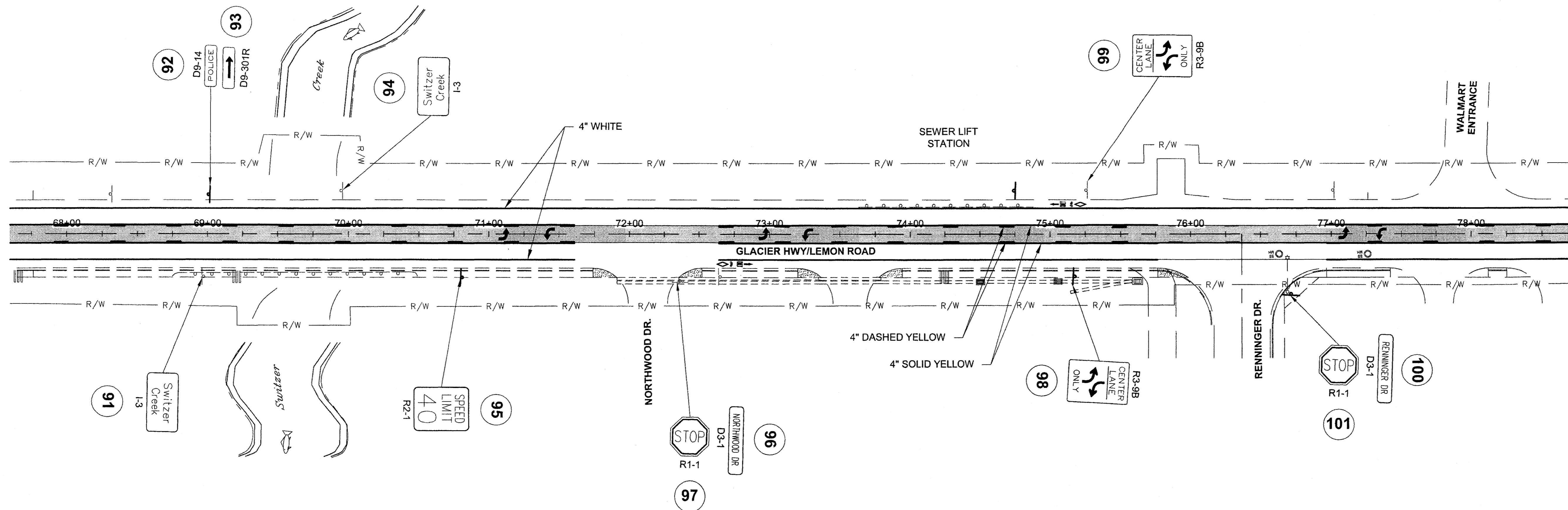
GRANTHAM, RICK L (DOT)
 TAB: D7 Tuesday, November 24, 2009 3:00:0

ADDENDUM NUMBER

ATTACHMENT NUMBER

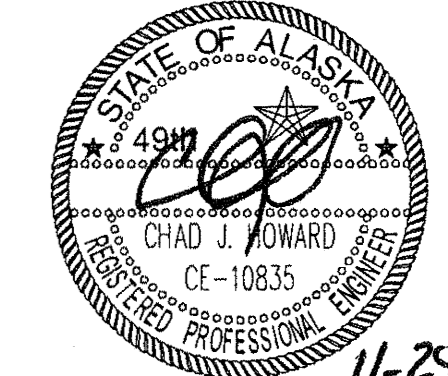
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-FFY09
 AREA WIDE PAVING
 PROJECT #68837

**LEMON ROAD
 PLAN VIEW**

PROJECT DESIGNATION

HPP-000S(696)

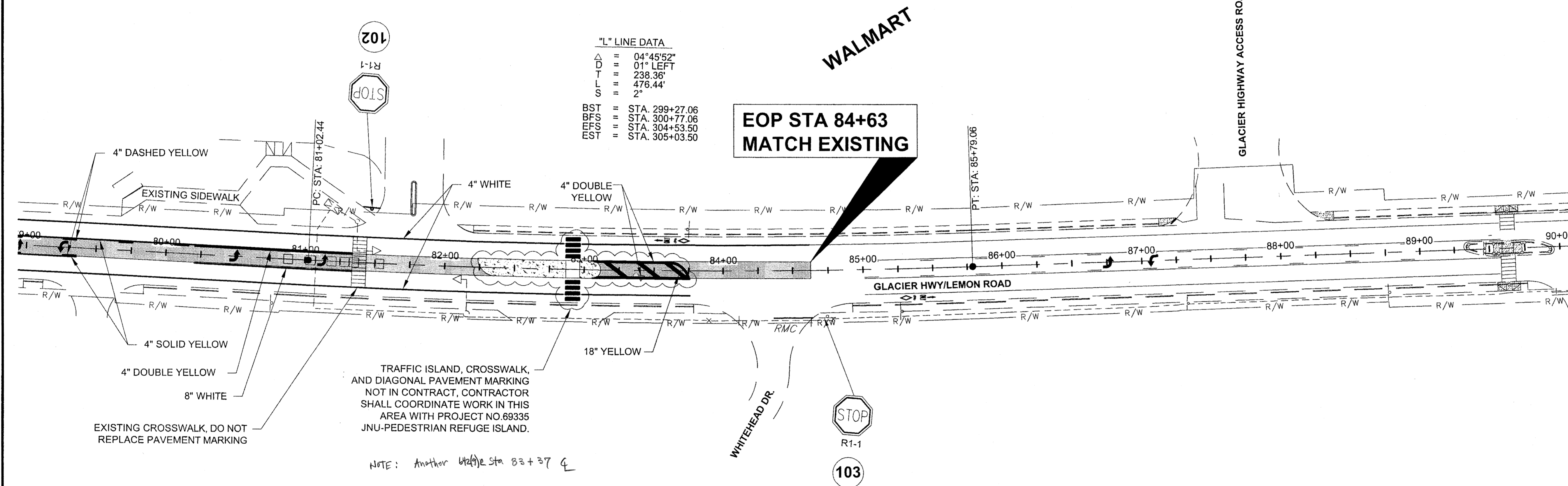
STATE	YEAR
ALASKA	2009

SHEET NUMBER	TOTAL SHEETS
D7	29

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 11/28/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

GRANTHAM, RICK L (DOT)		
TAB: D8 Thursday, February 18, 2010 3:32:00		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



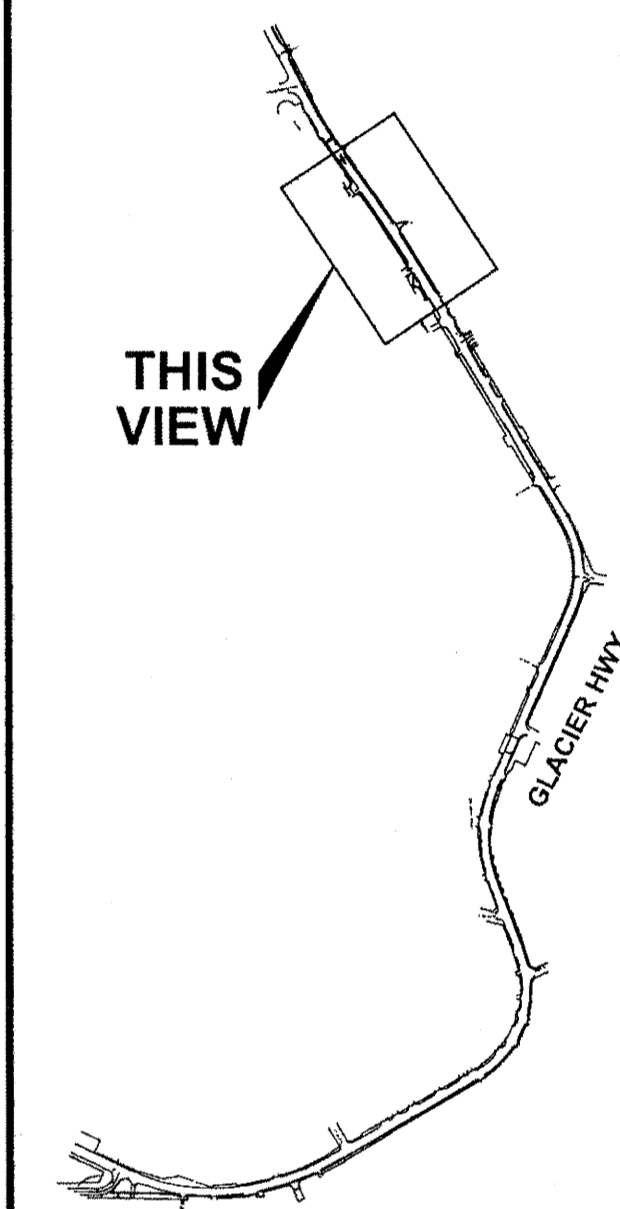
"L" LINE DATA

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D	=	01" LEFT
T	=	238.36'
L	=	476.44'
g	=	2°
BST	=	STA. 299+27.06
BFS	=	STA. 300+77.06
BFT	=	STA. 304+53.50
EST	=	STA. 305+03.50

**EOP STA 84+63
MATCH EXISTING**

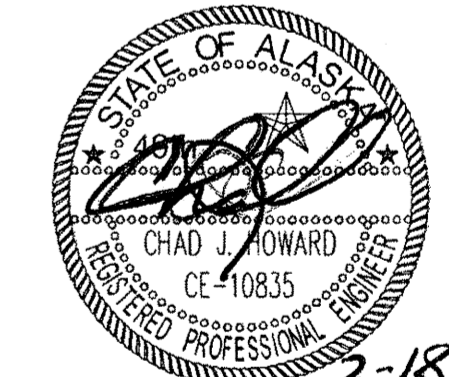
TRAFFIC ISLAND, CROSSWALK,
AND DIAGONAL PAVEMENT MARKING
NOT IN CONTRACT, CONTRACTOR
SHALL COORDINATE WORK IN THIS
AREA WITH PROJECT NO.69335
JNU-PEDESTRIAN REFUGE ISLAND.

NOTE: Another white Sta 83+37



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-FFY09
AREA WIDE PAVING
PROJECT #68837

**LEMON ROAD
PLAN VIEW**

PROJECT DESIGNATION
HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
D8	29

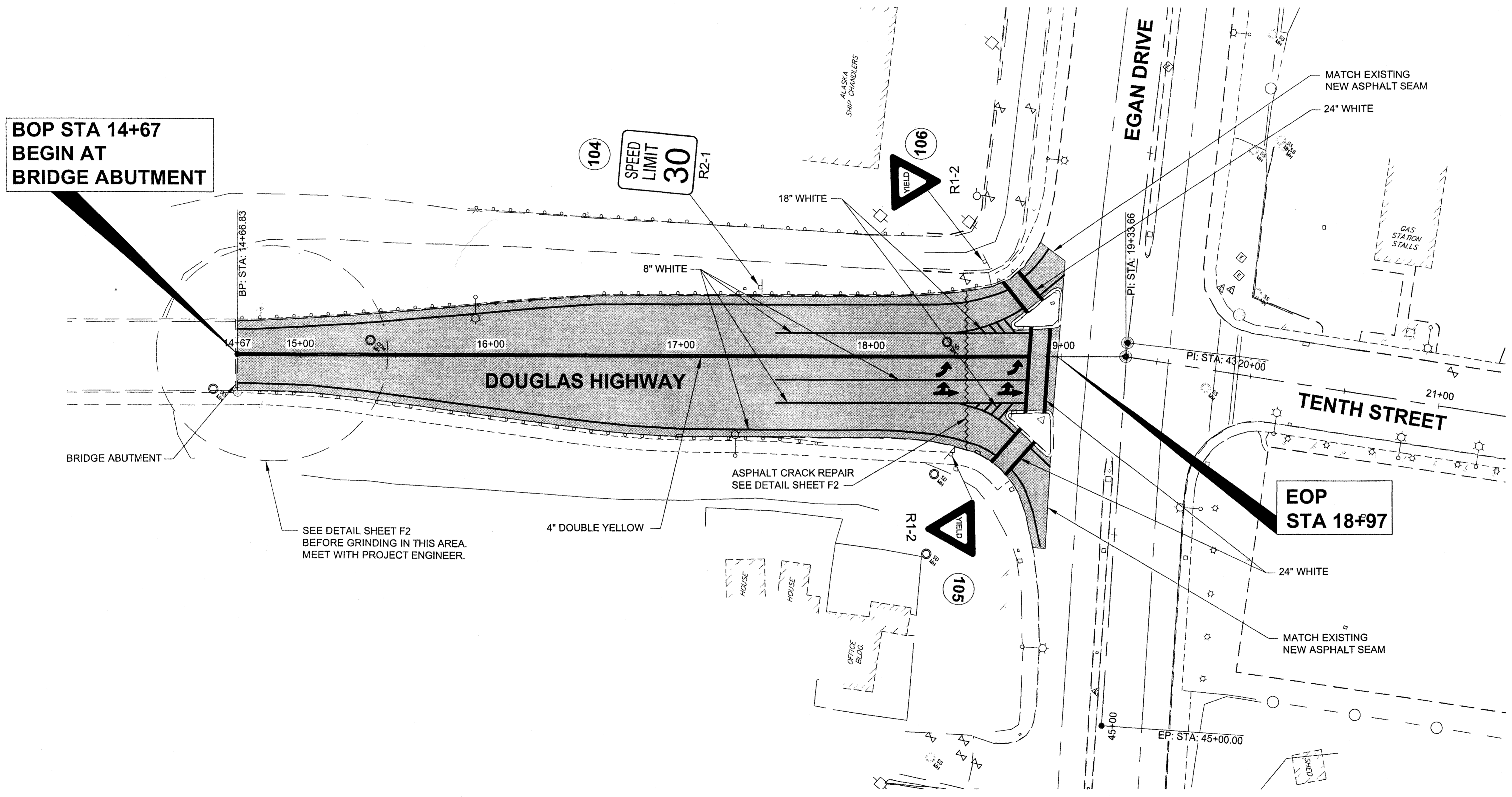
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 2/18/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**BOP STA 14+67
 BEGIN AT
 BRIDGE ABUTMENT**

**EOP
 STA 18+97**



SEE DETAIL SHEET F2 BEFORE GRINDING IN THIS AREA MEET WITH PROJECT ENGINEER.

ASPHALT CRACK REPAIR SEE DETAIL SHEET F2

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *[Signature]* Date: 11/24/09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PLAN LEGEND

CHECKED BY: C. HOWARD

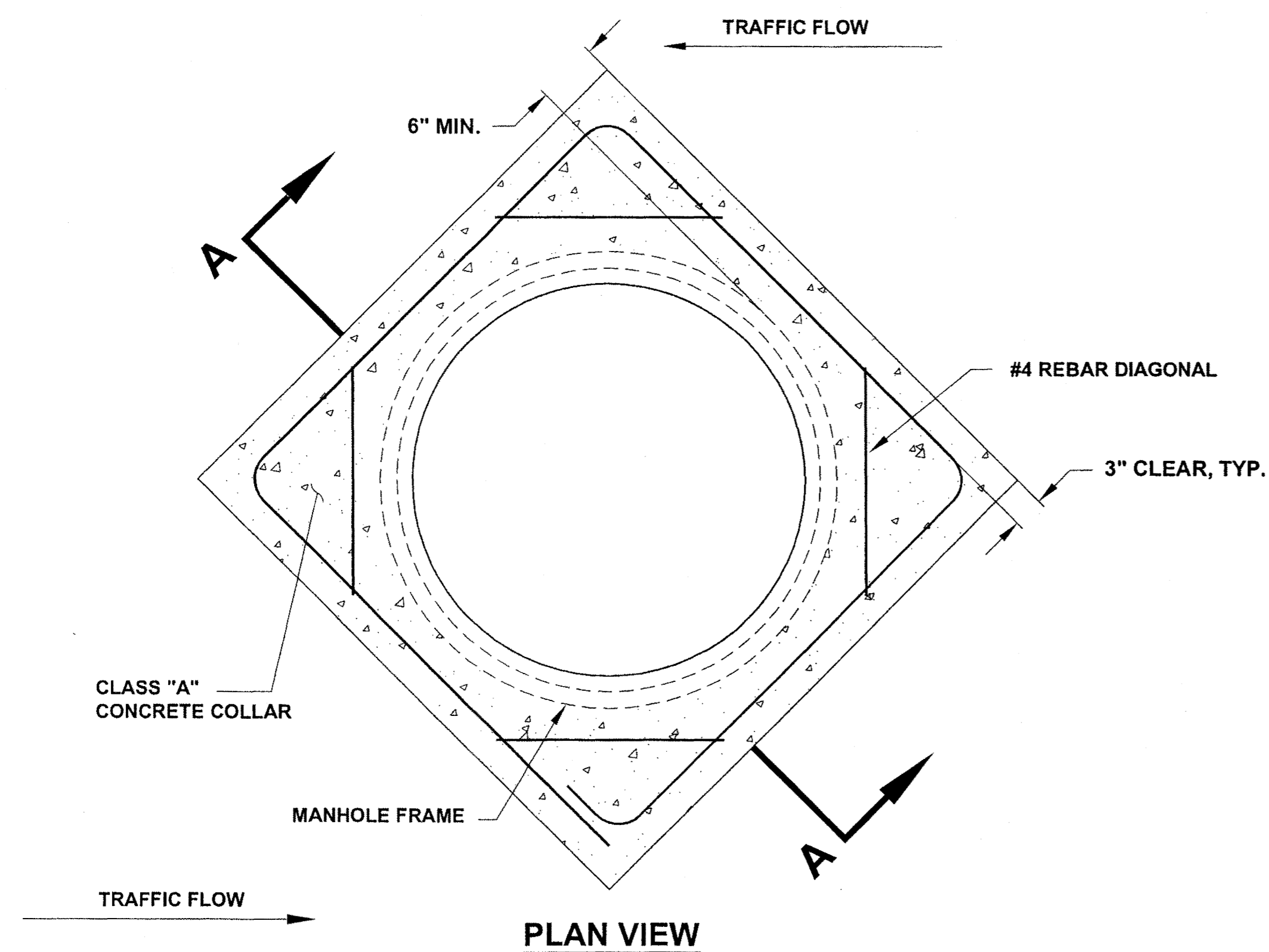
DESIGNED BY: D. MULLINER
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

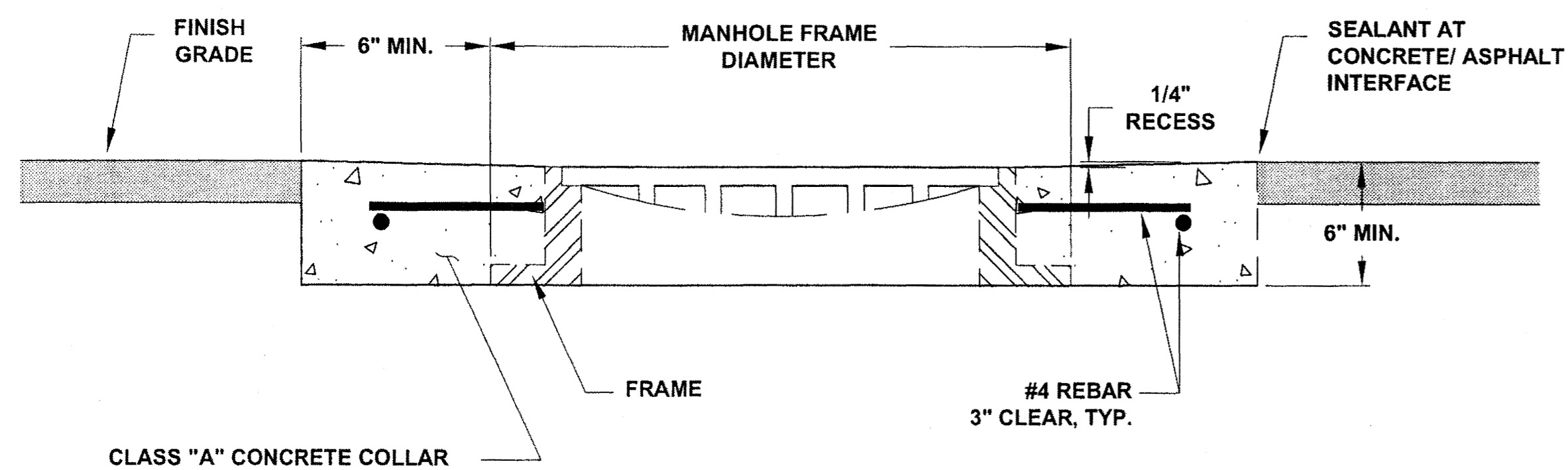
JNU-FFY09
 AREAWIDE PAVING
 PROJECT #68837
**DOUGLAS
 HIGHWAY
 PLAN VIEW**

PROJECT DESIGNATION
 HPP-000S(696)

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
E1	29



PLAN VIEW



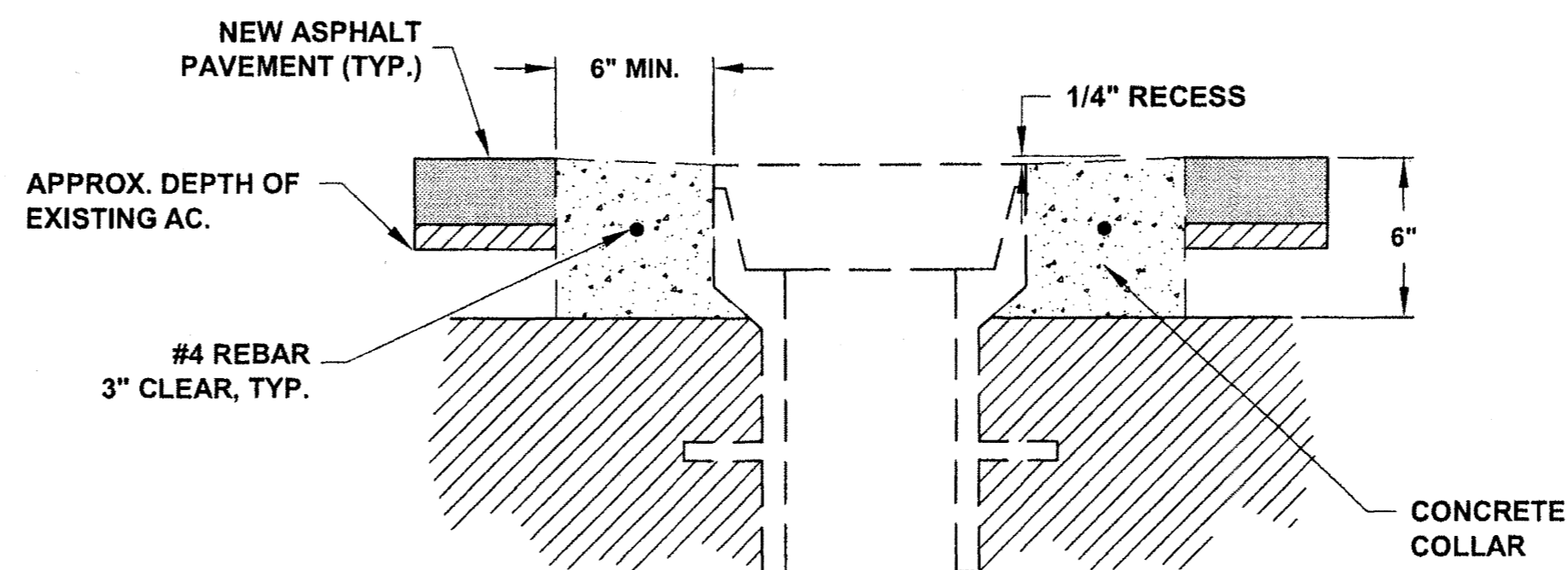
SECTION A-A

MANHOLE ADJUSTMENT DETAIL

N.T.S.

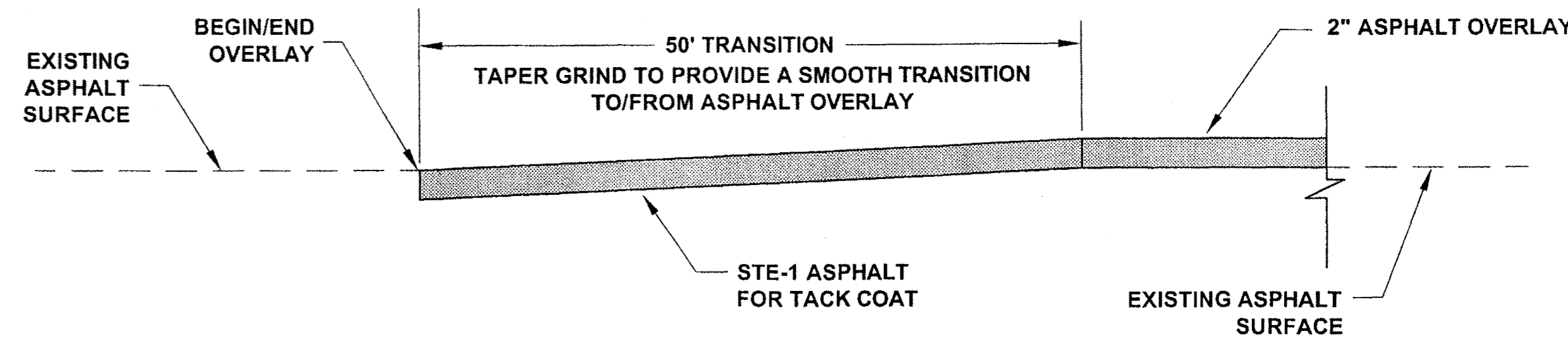
MANHOLE ADJUSTMENT NOTES:

1. ADJUSTING RINGS SHALL BE REPLACED IN ACCORDANCE TO EACH MANHOLE INVESTIGATION, CONDUCTED BY THE PROJECT ENGINEER.
2. MANHOLE CASTING SHALL BE ADJUSTED TO CONFORM WITH SLOPE AND GRADE OF PROPOSED PAVEMENT.
3. ADJUSTING RINGS SHALL BE PROPERLY SIZED FOR THE EXISTING CONE OR FLAT TOP OPENING, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. INSTALLATION OF FRAME, COVER, AND ADJUSTMENT RINGS, ONTO THE EXISTING STRUCTURE SHALL BE WATER-TIGHT.
5. FOR MANHOLE RECONSTRUCT, SEE CBJ STD. DWG. 203.

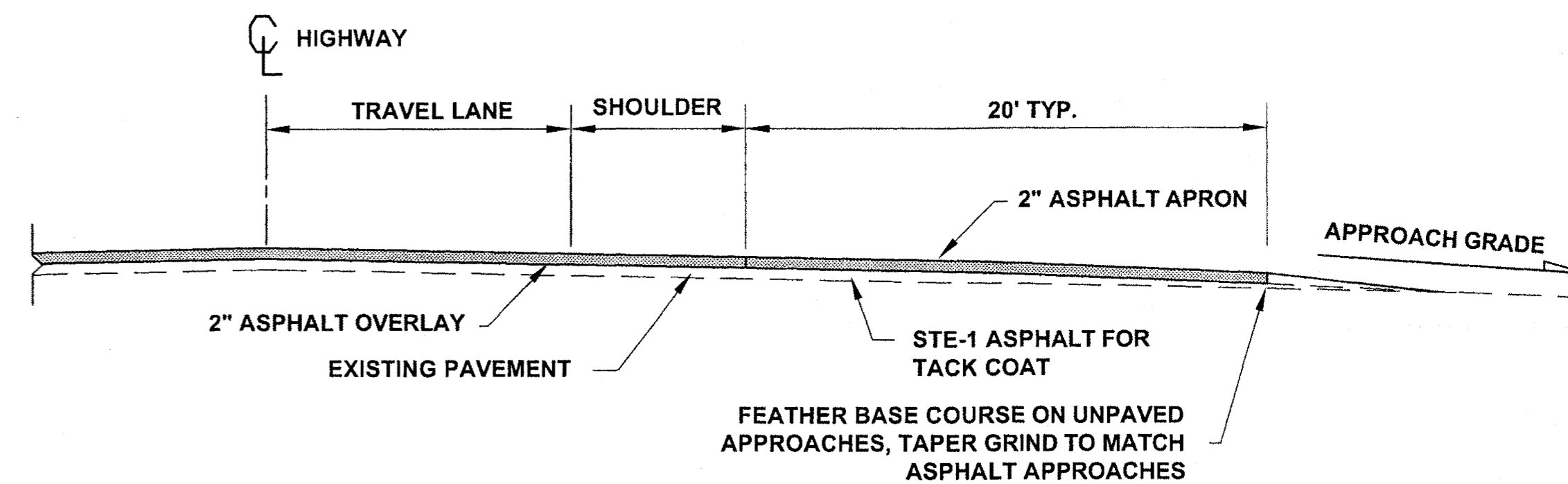


MONUMENT CASE AND VALVE BOX ADJUSTMENT DETAIL

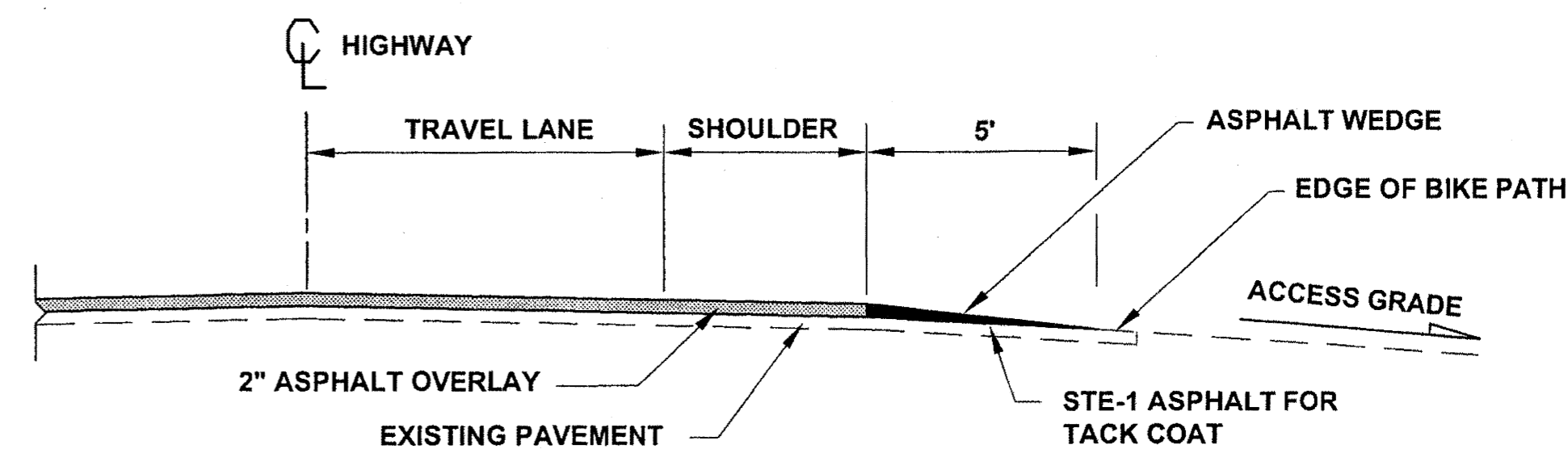
N.T.S.



PAVEMENT MATCH JOINT DETAIL



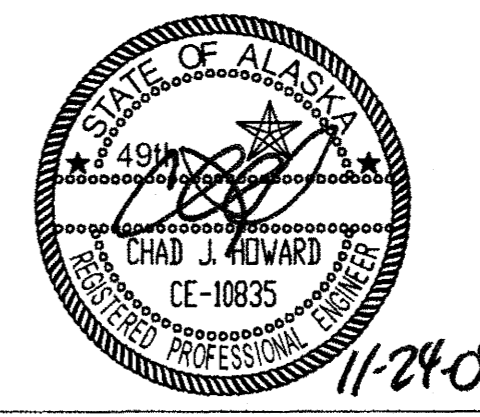
TYPICAL STREET APPROACH PROFILE

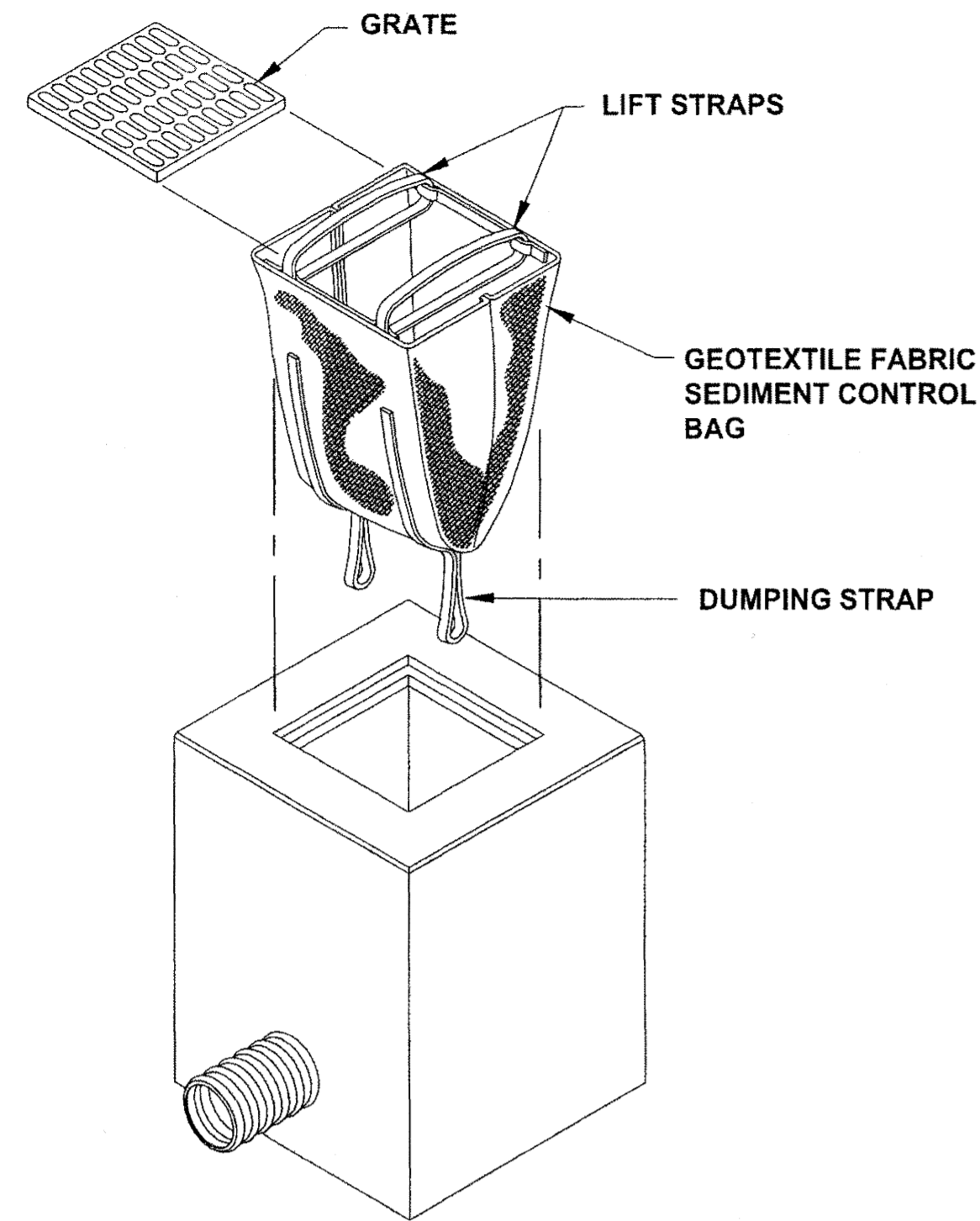


TYPICAL DRIVEWAY PROFILE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *[Signature]* Date: 11/24/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION				
DESIGNED BY: D. MULLINER						
DRAWN BY: R. GRANTHAM						
PATH: Q:\JNU\68837\PLANSET\68837_F1-F2_MISC DTL.DWG		JNU-FFY09 AREAWIDE PAVING PROJECT #68837 MISC. DETAILS				
TAB: F1 Monday, November 23, 2009 4:37:00 PM MULLINER, DOUGLAS J (DOT)						
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION	HPP-000S(696)-68837	2009	F1	29



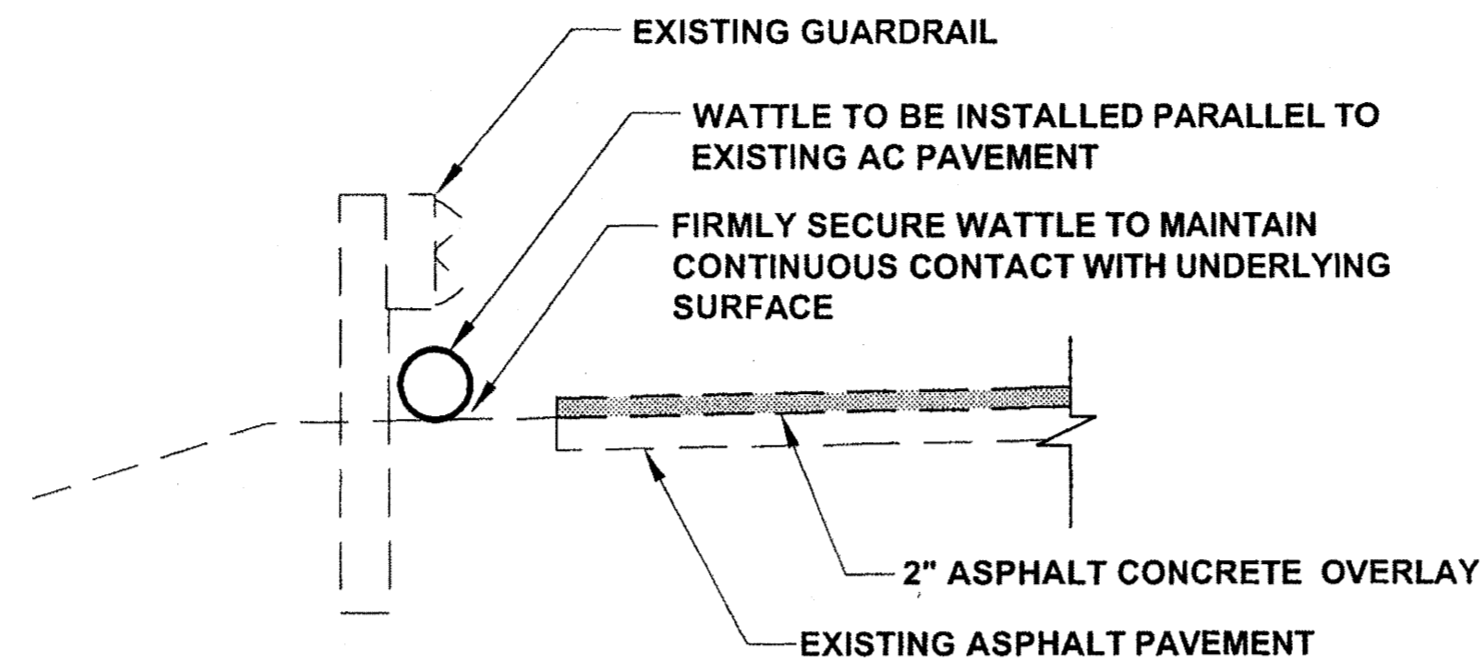
INLET PROTECTION DETAIL

INLET PROTECTION INSTALLATION AND MAINTENANCE

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

EROSION & SEDIMENT CONTROL NOTES:

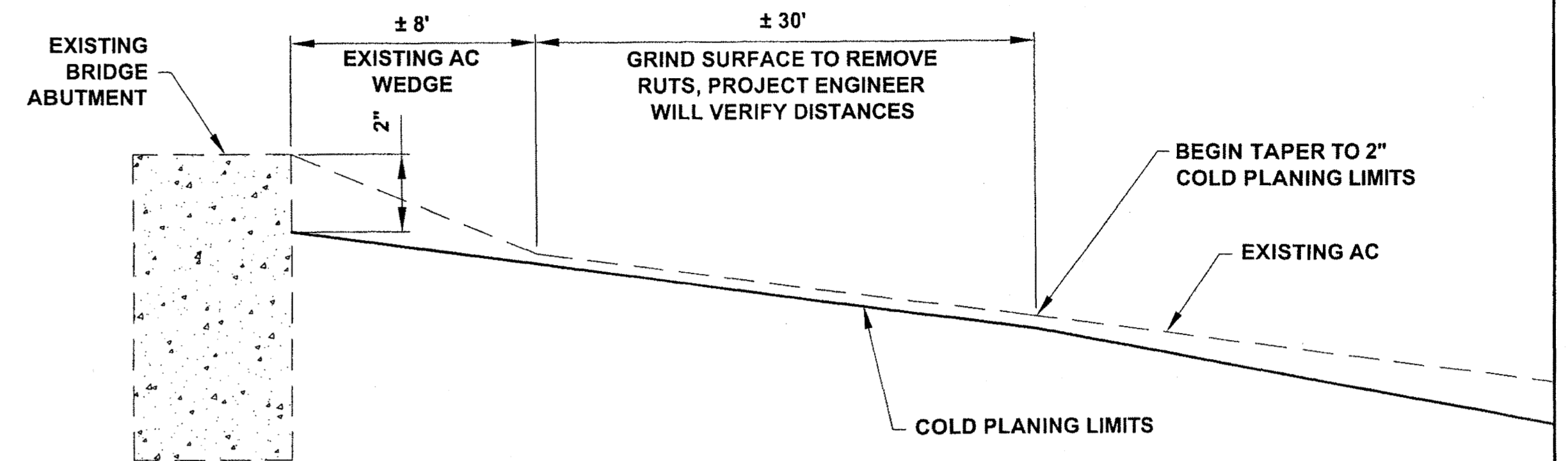
1. REFER TO APPENDIX A OF THE CONTRACT DOCUMENTS FOR THE ENVIRONMENTAL COMMITMENTS.
2. THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO SECTION 641 OF THE SPECS.
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING EARTH DISTURBING ACTIVITIES AND COLD PLANING OR AS SPECIFIED ELSEWHERE.
4. MAINTAIN DEVICES. MONITOR DAILY. REMOVE SEDIMENT FROM SEDIMENT TRAPS WHEN 4" OF SEDIMENT HAS ACCUMULATED.



TYPICAL WATTLE INSTALLATION DETAIL

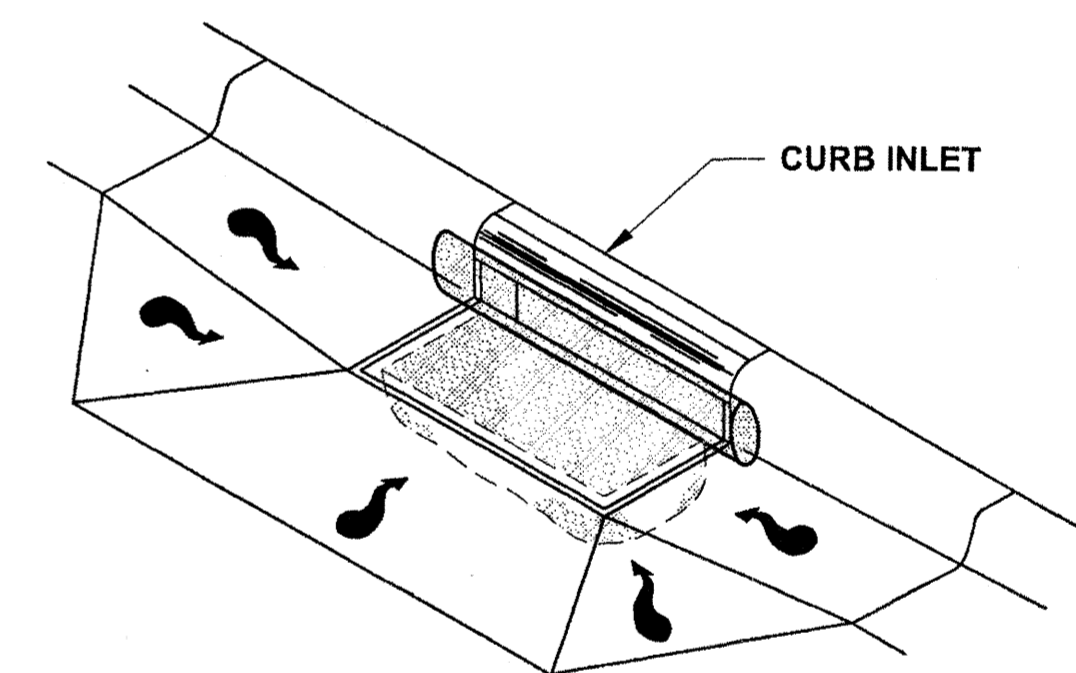
NOTES:

1. STRAW WATTLES SHALL BE MANUFACTURED FROM RICE STRAW AND WRAPPED IN TUBULAR PLASTIC NETTING.
2. THE LOCATION AND LENGTH OF WATTLES IS DEPENDENT ON THE CONDITION OF THE SITE.
3. TIGHTLY ABUT ADJACENT WATTLES TO PREVENT SEDIMENT BYPASS.
4. ANCHOR AS NECESSARY TO FIRMLY SECURE WATTLE AND PROVIDE CONTINUOUS CONTACT WITH THE SURFACE ON WHICH IT IS INSTALLED.



DOUGLAS HIGHWAY BRIDGE MATCH JOINT DETAIL

N.T.S.

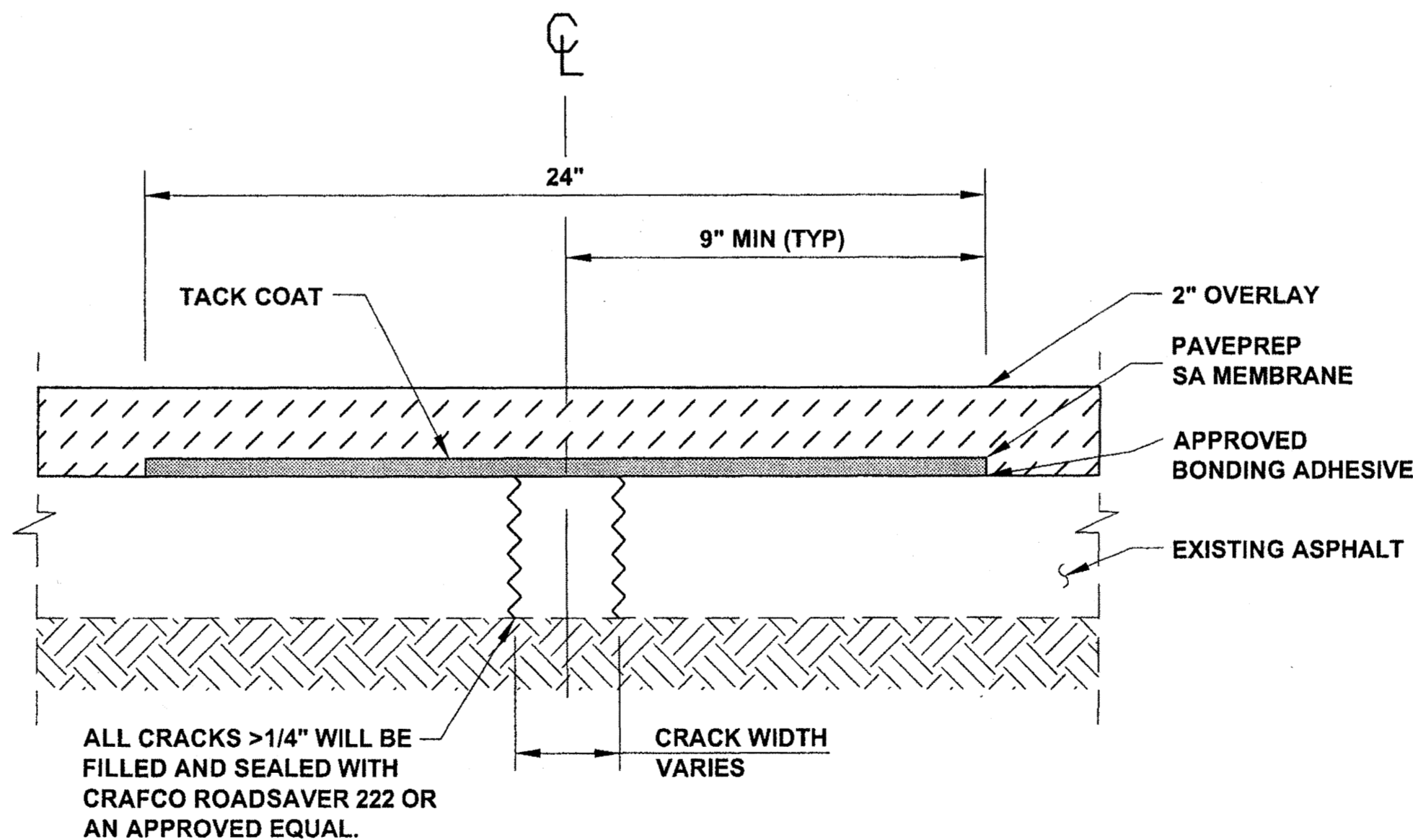


INLET PROTECTION DETAIL

N.T.S.

NOTE:

USE DANDY BAG OR APPROVED EQUAL. INSTALL INLET PROTECTION PRIOR TO BEGINNING WORK ACTIVITY.



PAVING FABRIC/CRACK REPAIR

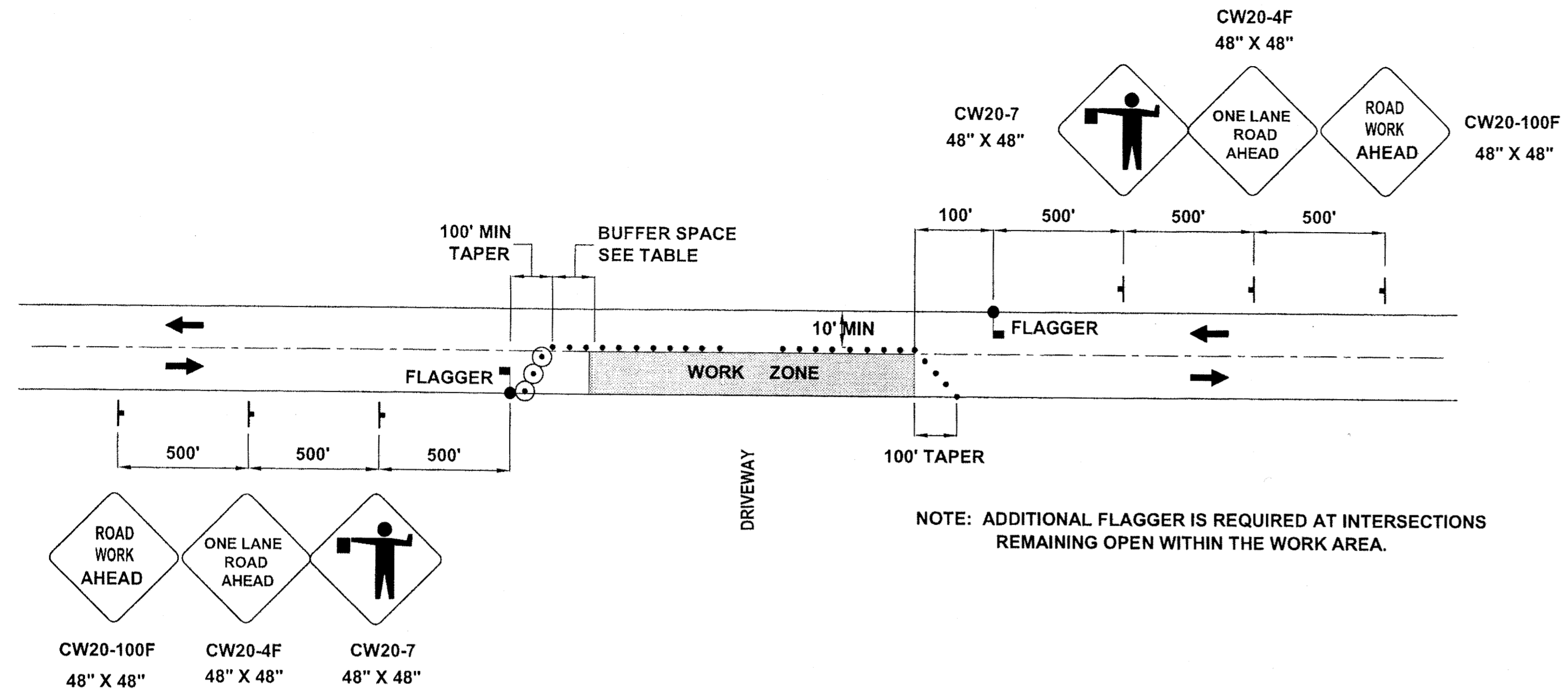
NOTES:

1. APPLY APPROVED TACK COAT OVER MEMBRANE PRIOR TO PAVING.
2. CRACK REPAIR PAID FOR UNDER ITEM 632(1) PAVING FABRIC.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date *11/24/09*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION			
		JNU-FFY09 AREAWIDE PAVING PROJECT #68837			
		MISC. DETAILS			
DESIGNED BY: D. MULLINER	DRAWN BY: R. GRANTHAM	PATH: Q:\JNU\68837\PLANSET\68837_F1-F2_MISC.DTL.DWG TAB: F2 Tuesday, November 24, 2009 3:23:44 PM GRANTHAM, RICK L (DOT)			
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		HPP-000S(696)-68837	2009	F2	29



TWO LANE ROADWAY-SINGLE LANE CLOSURE

NOTE: ADDITIONAL FLAGGER IS REQUIRED AT INTERSECTIONS REMAINING OPEN WITHIN THE WORK AREA.

- 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. CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
 5. DRIVEWAYS MAY BE CLOSED DURING ACTUAL WORK ON A GIVEN DRIVEWAY, PROVIDED THAT THE CLOSURE DOES NOT EXCEED 8 HOURS AND THE AFFECTED RESIDENTS HAVE BEEN GIVEN 24 HOURS NOTICE OF THE CLOSURE.
 6. 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.
 7. ALL TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL BE NUMBERED. ALL TRAFFIC CONTROL PLANS THAT USE A TYPICAL APPLICATION AS DESCRIBED IN THE MUTCD SHALL REFERENCE THE TYPICAL APPLICATION. EXAMPLE: TCP 3, MUTCD TA-10.
 8. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
 9. GLACIER HWY/TWINLAKES DR. WORK MUST OCCUR IN ONE LANE ONLY WITH PAVING TO FOLLOW GRINDING OPERATIONS WITH WEATHER PERMITTING.

LEGEND

- SIGN
- CONE
- DRUM
- ▬ TYPE III BARRICADE
- FLAGGING STATION

FORMULAS FOR L (TAPER LENGTH)

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

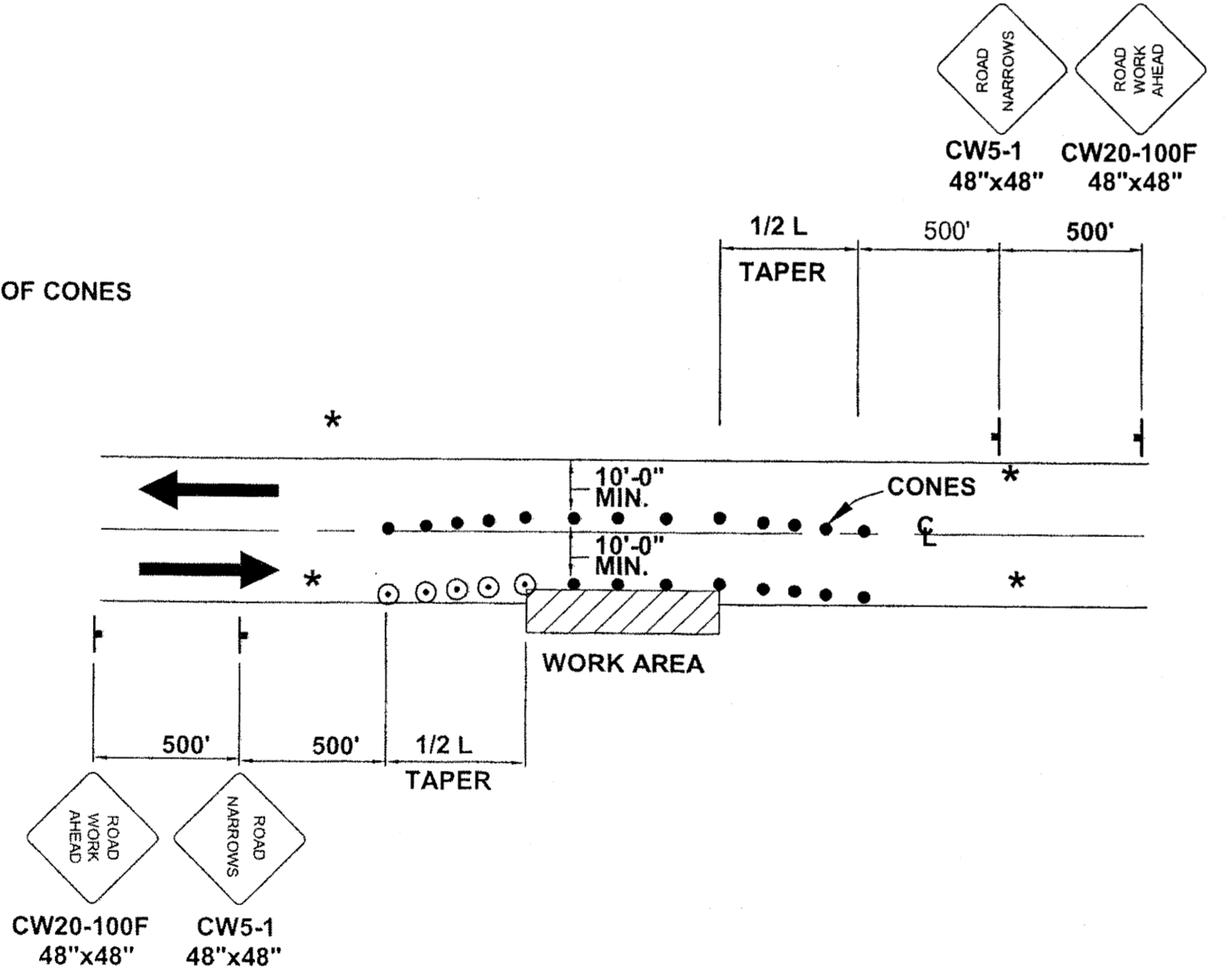
45 MPH OR GREATER $L = W \times S$

WHERE W = WIDTH OF OFFSET
S = POSTED SPEED LIMIT

DRUM OR CONE SPACING = S (IN FEET)

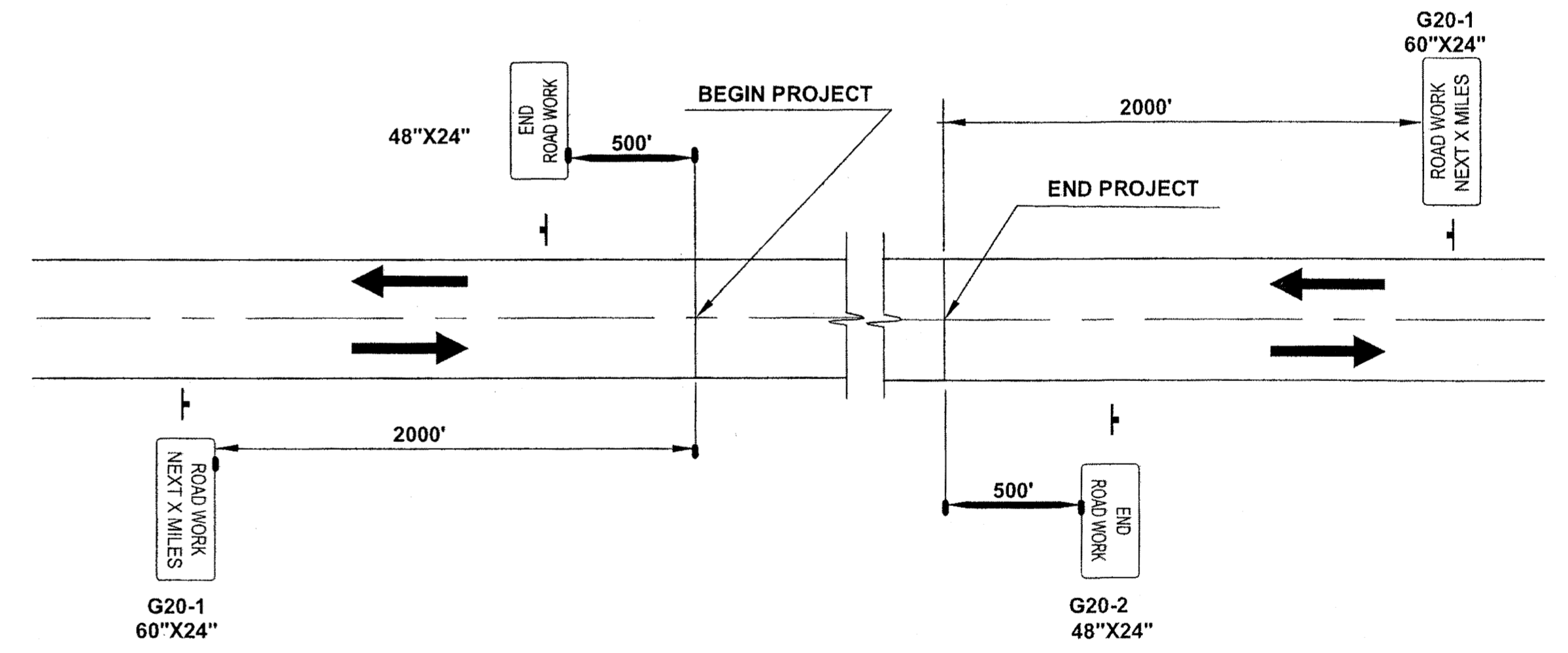
S	MIN. BUFFER LENGTH
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

* NO PARKING WITHIN 200' OF CONES



ROADWAY ENCROACHMENT

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



PERMANENT CONSTRUCTION SIGNING

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

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

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

JNU-FFY09
AREAWIDE PAVING
PROJECT #68837

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION: HPP-000S(696)-68837
YEAR: 2009
SHEET NO.: G1
TOTAL SHEETS: 29

REVISIONS
NO. DATE DESCRIPTION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 1/28/11