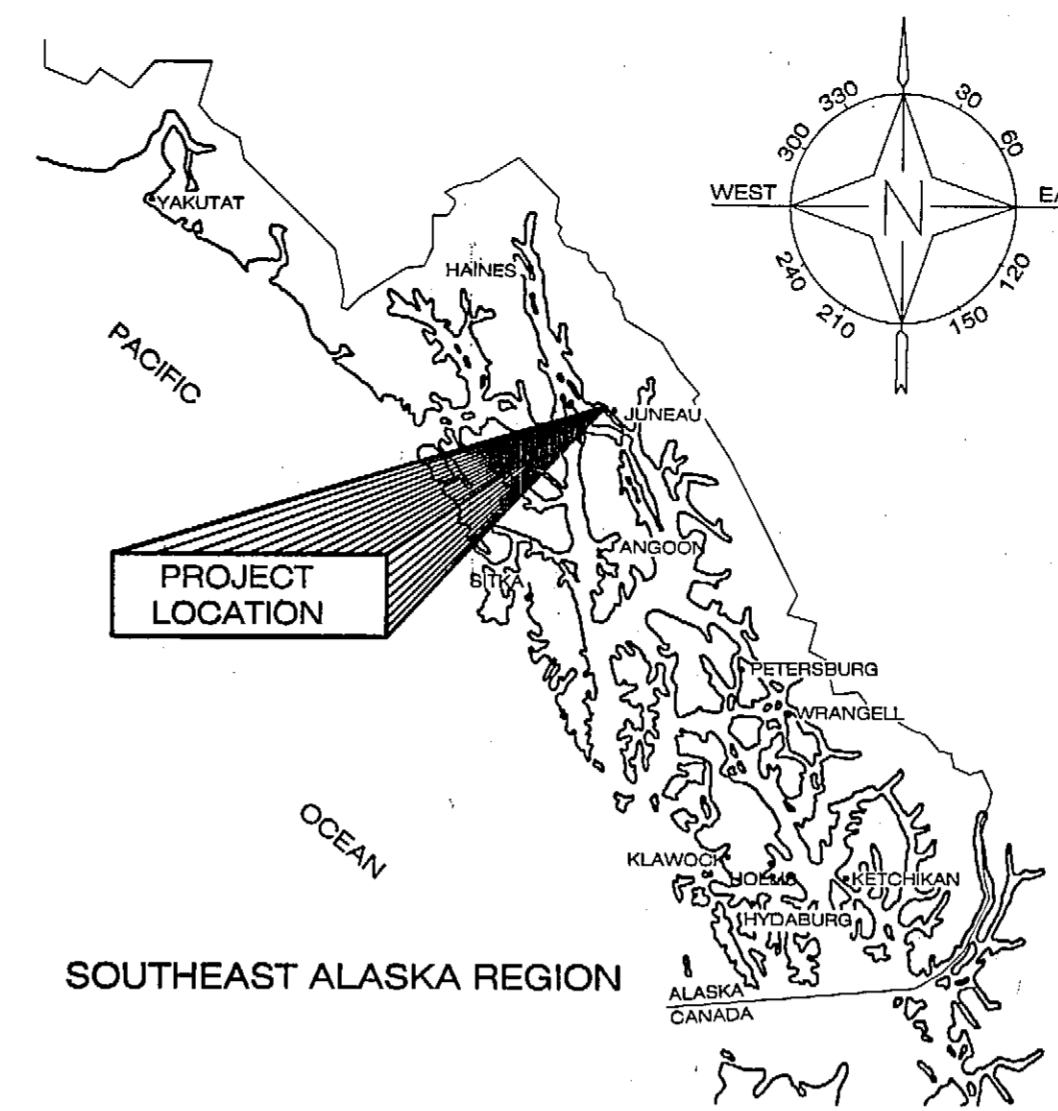


# State of Alaska

Department of Transportation  
and Public Facilities  
Statewide Design and Engineering Services Division

## JUNEAU, ALASKA

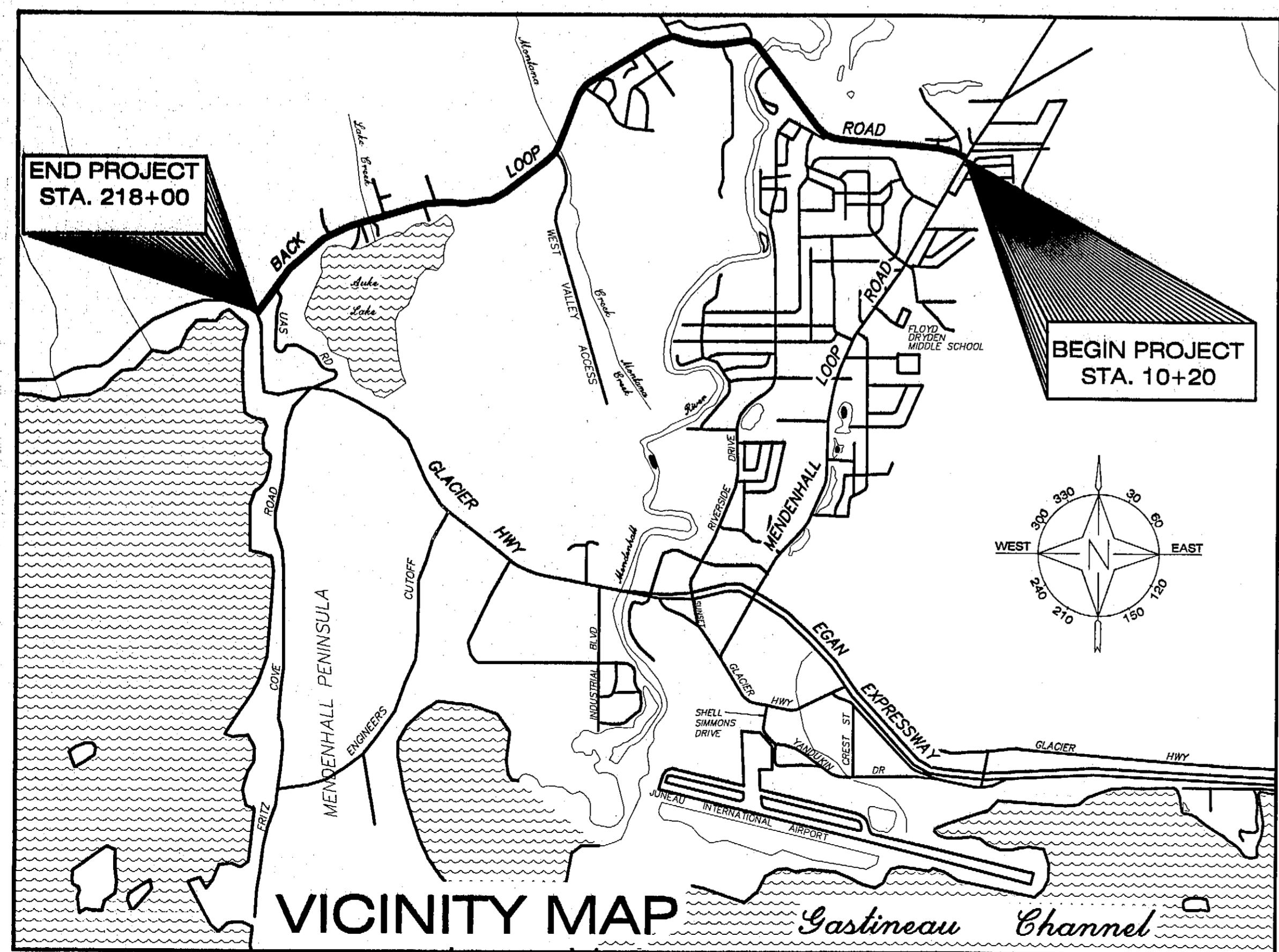
# JNU-BACK LOOP ROAD PAVEMENT REHABILITATION 68542~IM-0966(23)



INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
B1	TYPICAL SECTIONS
C1-C2	ESTIMATE & SUMMARY OF QUANTITIES
D1	CONSTRUCTION PHASING PLAN
F1-F4	PLAN SHEETS
G1-G5	MISCELLANEOUS DETAILS
H1-H2	BRIDGE WORK PLANS
I1-I3	AUTOMATED TRAFFIC RECORDER PLAN AND DETAILS
J1-J2	TRAFFIC CONTROL PLANS
P1	ESCP PLAN AND DETAILS
T1-T7	SIGNING & STRIPING PLAN & SUMMARY

AS-BUILT DRAWINGS  
 CONTRACTOR: SECON  
 PROJECT ENGINEER: THAD HOPPER  
 BEGIN DATE: JUNE 17, 2003  
 END DATE: SEPTEMBER 6, 2003  
 Total Contract Amount: \$ 2,64,502.89

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Engr. Thad Hopper Date 11/21/05



### DESIGN DESIGNATION

BACK LOOP ROAD	
A.D.T. 2003	= 4450
A.D.T. 2023	= 5420
D.H.V. 2023	= 6610
% T	= 3.8

### PROJECT SUMMARY

LENGTH OF GRADING	=	3.94 miles
LENGTH OF PAVING	=	3.94 miles
WIDTH OF PAVING	=	40.0 ft.
LENGTH OF PROJECT	=	3.94 miles

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

A-1	C-04.11	C-05.10	E-13.00	G-00.01	G-04.06S
G-04.07W	G-10.01	L-23.01	M-13.01	M-16.01	S-00.00
S-05.01	S-20.00	T-20.01	T-21.02	T-22.03	T-23.00

PATH: Q:\Jnu\68542\Planset\A1\_Titlesheet.dwg  
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 PLOT: PSPACE OR MSPACE: 1000mm=1m(F)

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION



RECOMMENDED FOR APPROVAL:  
Patrick J. Kemp  
 PATRICK J. KEMP  
 REGIONAL PRE-CONSTRUCTION ENGINEER  
 DATE: 3/14/03

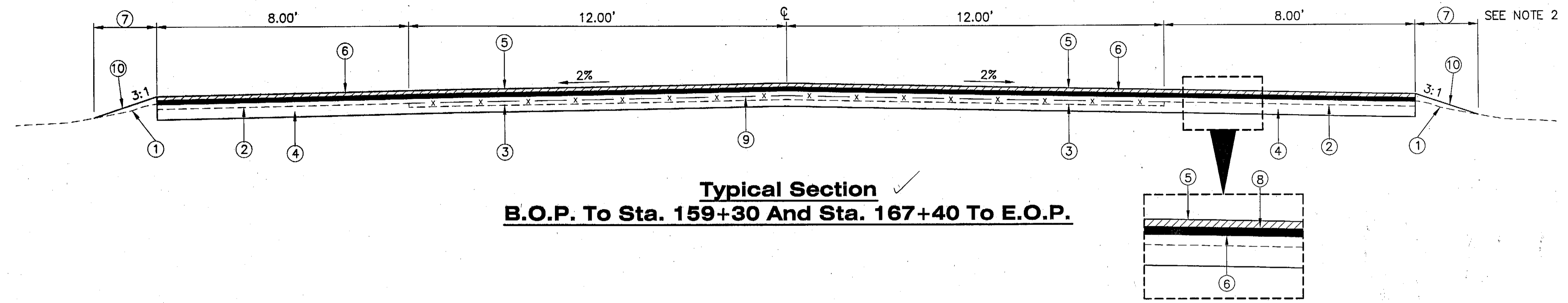
APPROVED:  
Robert J. Bull  
 ROBERT J. BULL  
 DIRECTOR, SOUTHEAST REGION  
 DATE: 3/14/03

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

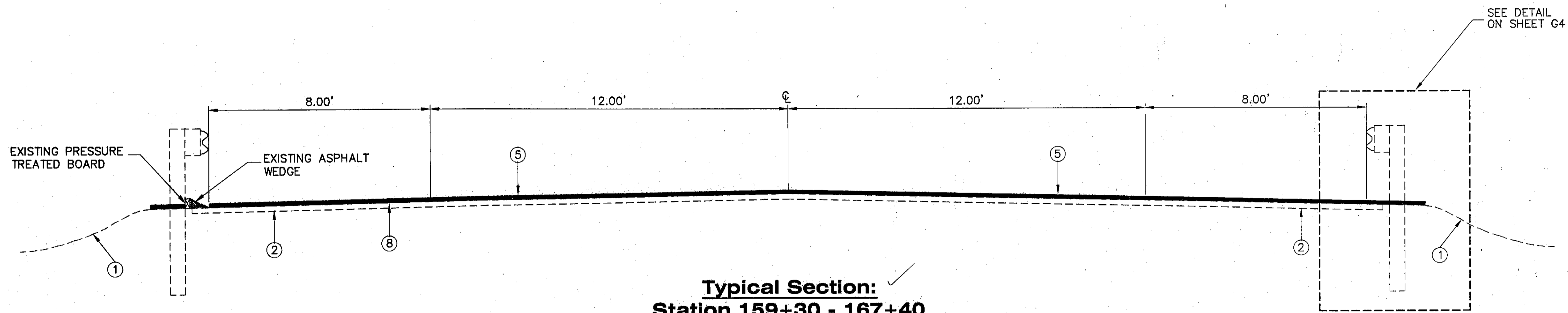
CONSTRUCTION PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68542~IM-0966(23)	2003	A1	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**Typical Section**  
**B.O.P. To Sta. 159+30 And Sta. 167+40 To E.O.P.**



**Typical Section:**  
**Station 159+30 - 167+40**

Legend	
①	EXISTING GROUND
②	EXISTING 2" PAVEMENT
③	EXISTING 4"± PAVEMENT
④	CRUSHED ASPHALT BASE COURSE - 6" THICK (SEE NOTE 5)
⑤	1 1/2" ASPHALT CONCRETE, TYPE B
⑥	1 1/2" ATB
⑦	LINEAR GRADING
⑧	STE-1 ASPHALT FOR TACK COAT
⑨	EXISTING PAVING GEOTEXTILE FABRIC (SEE NOTES)
⑩	CRUSHED ASPHALT BASE COURSE WEDGE

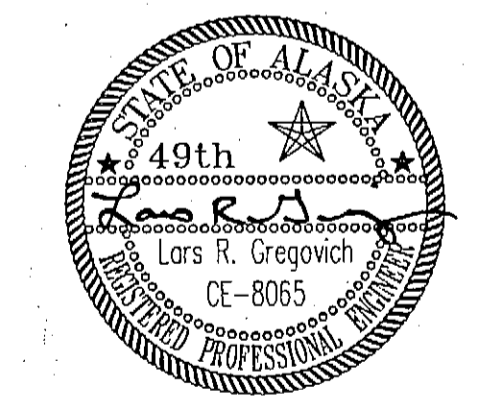
**Typical Section Notes:**

- EXISTING PAVING FABRIC BEGINS AT APPROXIMATE STATION 80+00 AND IS DISCONTINUOUS TO THE E.O.P.
- LINEAR GRADING SHALL CONSIST OF PULLING SHOULDERS WHERE THE EXISTING SHOULDER MATERIAL IS HIGHER THAN THE EXISTING EDGE OF PAVEMENT. PULLED MATERIAL SHALL BE DISPOSED OF AT AN APPROVED OFF-SITE LOCATION. LINEAR GRADING SHALL ALSO CONSIST OF GRADING, SHAPING AND COMPACTING THE CRUSHED ASPHALT BASE MATERIAL AS SHOWN ON THE TYPICAL SECTION. SEE SECTION 308 OF THE SPECIAL PROVISIONS.
- GUARDRAIL EXISTS THROUGHOUT THE PROJECT. SEE THE PLAN SHEETS FOR LOCATION OF GUARDRAIL. SEE SHEET C1 FOR A SUMMARY OF GUARDRAIL REPAIRS. SEE SHEET G4 FOR PAVING UNDER GUARDRAIL DETAILS.
- SEE THE CONSTRUCTION PHASING PLAN FOR LIMITATIONS ON CRUSHED ASPHALT BASE COURSE AND PAVING WORK.
- THE EXISTING PAVEMENT SHALL BE GROUND UP AND MIXED WITH EXISTING BASE MATERIAL, SPREAD UNIFORMLY FULL WIDTH OVER THE ROADWAY AND COMPACTED IN ACCORDANCE WITH SECTION 308. OIL AND CEMENT WILL BE ADDED IN ACCORDANCE WITH SECTION 308 DURING THE MIXING PROCESS. THE EXISTING PAVEMENT VARIES IN THICKNESS: 2" ON SHOULDERS; 4" ON TRAFFIC LANES.

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

**Typical Sections**

DESIGNED BY: J. OSBURN



CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
**Typical Sections**

PROJECT DESIGNATION NUMBER  
**68542~IM-0966(23)**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
B1	29

Estimate of Quantities			
ITEM	PAY ITEM	UNIT	QTY.
203 (6)	Borrow, Type A	Cubic Yard	500
203(11)	Ditch Reconditioning	Linear Foot	2,327.0-3500
301 (1)	Aggregate Base Course	Ton	2,81.53 1250
306 (1)	ATB DELETED C.O. 1	Ton	8700
306(4)	Paving Under Guardrail DELETED C.O. 1	Linear Foot	3130
308 (1)	Crushed Asphalt Base Course	Square Yard	85,982.7 91500
308 (2)	CSS-1 Asphalt for Base Course	Ton	933.68 890
308 (3)	Portland Cement	Ton	292.47 300
401 (1)	Asphalt Concrete, Type B	Ton	9302.66 9400
401 (2)	Asphalt Cement, Type PG 58-28	Ton	985.63 956
401(3)	Asphalt Price Adjustment	Contingent Sum	All Required
402 (1)	STE-1 Asphalt For Tack Coat	Ton	38
501 (1)	Class A Concrete	Lump Sum	All Required
508 (1)	Waterproofing Membrane	Lump Sum	All Required
604 (4)	Adjust Existing Manhole	Each	28 15
606(13)	Guardrail Repairs	Lump Sum	All Required
611 (2)	Riprap, Class 1	Ton	10.5 50
615 (1)	Standard Sign	Square Foot	736.30 800
627 (10)	Adjustment Of Valve Box	Each	30 5
639 (3)	Approach	Each	127 119
640 (1)	Mobilization and Demobilization	Lump Sum	All Required
641 (1)	Erosion and Pollution Control Administration	Lump Sum	All Required
641 (2)	Erosion And Pollution Control	Contingent Sum	All Required
641 (4)	Silt Fence	Linear Foot	500
641 (5)	Rock Check Dam	Each	9 12
642 (1)	Construction Surveying	Lump Sum	All Required
642 (3)	Three Person Survey Party	Hour	8 8
642 (6)	Replace Existing with Primary Monument	Each	23 22
643 (2)	Traffic Maintenance	Lump Sum	All Required
643 (3)	Permanent Construction Signs	Lump Sum	All Required
643(15)	Flagging	Contingent Sum	All Required
643(25)	Traffic Control	Contingent Sum	All Required
669 (2)	Automated Traffic Recorder	Lump Sum	All Required
670 (8)	Recessed Pavement Marker	Each	385
670(1)	Painted Traffic Markings	Lump Sum	All Required

Primary Monument Summary	
STATION	QUANTITY
14+50 LT	1
40+25 LT	1
45+00 LT	1
67+70 RT *	
71+50 RT	1
80+00 LT	1
89+75 RT	1
109+50 RT	1
114+50 RT	1
127+50 LT	1
130+20 RT**	
133+50 RT	1
137+75 LT	1
145+50 RT	1
153+20 LT	1
155+75 LT	1
157+00 LT	1
164+50 RT	1
169+75 RT	1
193+00 RT	1
201+50 LT	1
207+50 RT	1
213+00 RT	1
217+00 RT	1
<b>TOTAL</b>	<b>22</b>

Basis Of Estimate		
ITEM	PAY ITEM	ESTIMATING FACTOR
203 (6)	Borrow, Type A	1.85 ton/cy
301 (1)	Aggregate Base Course	1.95 ton/cy
306 (1)	ATB	117 lb/sy/in
308 (2)	Emulsified Asphalt, Type CSS-1 (6" Depth)	2.5 gal/sy
308 (2)	Emulsified Asphalt, Type CSS-1	24.3 gal/ton
308 (3)	Portland Cement (6" Depth)	6.9 lbs/sy
401 (1)	Asphalt Concrete, Type B	117 lb/sy/in
401 (2)	Asphalt Cement, Grade PG 58-28	4.5% of Item 401 (1)
401 (2)	Asphalt Cement, Grade PG 58-28	237 gal/ton
402 (1)	STE-1 Asphalt for Tack Coat	0.1 gal/s.y.
402 (1)	STE-1 Asphalt for Tack Coat	243 gal/ton
508 (1)	Waterproofing Membrane	1,410 S.Y.
	Mendenhall River Bridge	870 S.Y.
	Montana Creek Bridge	365 S.Y.
	Lake Creek Bridge	175 S.Y.

Ditch Reconditioning	
BEGIN STATION	END STATION
132+60	
146+90	
195+80	
Additional as directed	

Station	to	Station	L.F.
132+75		135+56	274
135+67		138+27	250
139+58		139+74	101
140+02		143+60	357
143+97		145+05	119
145+23		145+48	25
145+81		147+00	118
147+31		148+20	89
148+45		148+65	20
148+93		151+48	254
151+75		153+40	159
196+44		199+13	269
199+52		202+18	259
202+26		202+54	33
<b>Total:</b>			<b>2327</b>

UPDATED 03/12/2003 11:27 AM

DATED 03/06/2003 4:17 PM

Summary	
BEGIN STATION	QUANTITY (FEET)
	1110
	655
	1000
	735
	3500

New Items Established by Change Order			
Item	QTY	Unit	Price
306(1A)	6	ATB	8,738.88
306(4A)	6	Paving Under Guardrail	4,701.30
501(1A)	6	Concrete Curb	1.00
401(1A)	6	Asphalt Concrete Type B	958.39
401(2A)	6	Asphalt Cement PG 58-22	59.08
401(2B)	6	Asphalt Cement Credit	985.63

DATED 03/13/2003 1:34 PM

CJL Mendenhall River School Approach Road Project No. 68774, Ledger Code: 30542642 Change Order No. 2					
306(1)	Reimb.	ATB	Ton	83.33	
308(1)	Reimb.	Crushed Asphalt Base Course	S.Y.	1009.00	
308(2)	Reimb.	CSS-1 Asphalt for Base Course	Ton	10.50	
308(3)	Reimb.	Portland Cement	Ton	3.50	
401(1)	Reimb.	Asphalt Concrete Type B	Ton	84.00	
401(2)	Reimb.	Asphalt Cement PG 58-28	Ton	8.95	
402(1)	Reimb.	STE-1 Tack Coat	Ton	0.00	

\* Existing Brass Cap in Mendenhall River Bridge  
\*\* Existing Brass Cap in Montana Ck. Bridge

Paving Under Guardrail Summary				
BEGIN STATION	END STATION	OFFSET	QUANTITY (FEET)	
65+92	66+45	LT	53	
65+55	66+46	RT	92	
67+79	68+76	RT	97	
67+85	72+19	LT	434	
71+23	75+09	RT	387	
128+90	130+19	RT	129	
129+89	130+44	LT	55	
131+15	131+94	RT	79	
131+38	132+23	LT	85	
149+50	151+33	LT	183	
159+30	166+81	LT	751	
160+64	166+45	RT	581	
170+91	171+94	RT	103	
170+92	171+94	LT	102	
		<b>TOTAL</b>	<b>3130</b>	

UPDATED 03/03/2003 8:42 AM

Guardrail Repair Summary	
STATION RANGE	REPAIRS NEEDED
68+00 - 72+20 LT.	REMOVE AND REPLACE 100 L.F. OF W-BEAM GUARDRAIL (INTERMITTENT - RAIL ELEMENT AND POSTS AS NECESSARY) REMOVE AND REPLACE STD. W-BEAM END SECTION AT STA. 72+20 LT.
71+25 - 75+00 RT.	STA. 71+25 TO STA. 71+62 - REMOVE AND REPLACE BCT, INCLUDING TWO NEW BCT FOOTINGS AND 37.5 L.F. OF W-BEAM RAIL ELEMENT. INCLUDING A NEW STD. W-BEAM END SECTION. ALSO REMOVE AND REPLACE 37.5 L.F. OF W-BEAM GUARDRAIL (RAIL ELEMENT AND POSTS AS NECESSARY) AS DIRECTED. STRAIGHTEN ONE STEEL POST AT LOCATION GIVEN BY ENGINEER.
93+75 - 94+75 RT.	REMOVE AND REPLACE BCT ON WEST END; INCLUDING TWO NEW BCT FOOTINGS AND 25 L.F. OF W-BEAM RAIL (RAIL ELEMENTS AND POSTS AS NECESSARY)
128+95 - 103+25 RT.	REPLACE 25 L.F. OF GUARDRAIL (RAIL ELEMENT AND POSTS AS NECESSARY) AS WHERE DIRECTED.
171+00 - 172+00 LT.	REMOVE AND REPLACE BCT END AT STA. 172+00 LT.
171+00 - 172+00 RT. 185+40 LT.	REMOVE AND REPLACE BCT END AT STA. 171+00. REMOVE AND REPLACE 100 L.F. OF W-BEAM GUARDRAIL (RAIL ELEMENT AND POSTS AS NECESSARY) AND NEW STD. W-BEAM END SECTIONS.
187+35 LT.	REMOVE AND REPLACE FIRST WOOD POST AND CONCRETE FOOTING IN FROM THE TERMINAL POST (BCT * FOOTING #2 AS SHOWN ON SHEET D5).
	REMOVE AND REPLACE STD. W-BEAM END SECTION.

\*(BCT = BREAKAWAY CABLE TERMINAL)

Manhole	
STATION	REMARKS
92+90	
60+10	
133+00	
134+15	
166+70	
173+00	
181+95	
191+00	
192+50	
207+70	
208+55	
211+30	
211+40	
215+00	
<b>TOTAL</b>	

Adjustment of Manholes		
Station	Offset	Type
10+66	22' Lt	Water MH
59+70	24' Rt	Water MH
92+75	19' Rt	Sewer MH
96+50	20' Rt	
136+31	18' Rt	
137+61	17' Rt	
139+77	23' Rt	
143+70	25' Rt	
145+75	25' Rt	
149+10	23' Rt	
151+71	19' Rt	
153+40	21' Rt	
172+90	30' Lt	
176+18	29' Lt	
181+86	28' Lt	
184+50	27' Lt	
187+80	31' Lt	
190+86	28' Lt	
202+72	21' Lt	
208+40	23' Lt	
208+55	25' Lt	
211+20	21' Lt	
211+25	18' Rt	Telephone MH
213+16	19' Lt	Sewer MH
214+94	20' Lt	
215+00	17' Rt	Telephone MH
216+12	19' Lt	Sewer MH
217+14	19' Lt	

Summary	
REMARKS	QUANTITY
Sanitary Sewer MH	15
Water MH	
Sewer MH	
Telephone MH	
<b>TOTAL</b>	<b>15</b>

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TMB:CYPICALS

ADDENDUM NUMBER  
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

BACK LOOP ROAD  
PAVEMENT REHABILITATION  
542-IM-0966(23)

Estimate of Quantities

Paving Under Guardrail			
Station	to	Station	L.F.
64+96 Lt		65+54 Lt	58
64+72 Rt		65+54 Rt	82
64+73 Rt		68+40 Rt	97
67+43 Lt		71+90 Lt	447
70+88 Rt		73+49 Rt	261
94+00 Rt		95+03 Rt	134
130+35 Rt		131+49 Rt	83
131+49 Rt		132+32 Rt	59
130+38 Lt		130+97 Lt	83
131+78 Lt		132+61 Lt	131
159+69 Lt		161+00 Lt	14
166+31 Lt		166+45 Lt	478
161+47 Rt		166+25 Rt	104
170+90 Rt		171+94 Rt	103
171+06 Lt		172+09 Lt	138
184+95 Rt		186+33 Rt	120
185+82 Lt		186+82 Lt	75.8
70+88 Rt		73+49 Rt	81.4
94+00 Rt		95+03 Rt	73
130+35 Rt		132+32 Rt	205.7
159+69 Lt		166+45 Lt	66
161+47 Rt		166+25 Rt	1040.3
Mendenhall River Bridge Flares:			476
Montana Creek Bridge Flares:			97.8
Little Lake Creek Bridge Flares:			90.3
Lake Creek Bridge Flares:			4701.3

CHECKED BY: L. GREGOVICH  
DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION  
JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION

Estimate of Quantities

PROJECT DESIGNATION NUMBER	
68542-IM-0966(23)	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
C1	29

Water Valve Adjustment Summary		
STATION	OFFSET	REMARKS
43+00	26 LT	Mint Way - (S) Valve
76+80	22 LT	River Road
202+75	27 RT	Lee Street - (S) Valve
<b>TOTAL</b>		<b>33</b>
		<b>+ 27</b>
		<b>30</b>

UPDATED 3/3/2003 8:41

Adjustment of Valve Box	
Station	Station
10+88 Lt	98+90 Lt
12+24 Lt	98+93 Lt
12+27 Lt	111+15 Lt
18+75 Lt	111+17 Lt
32+75 Lt	148+45 Lt
35+80 Lt	148+47 Lt
38+20 Lt	166+73 Rt
38+23 Lt	166+75 Rt
41+20 Lt	178+50 Rt
42+98 Lt	178+52 Rt
76+88 Lt	202+70 Rt
92+50 Lt	202+81 Rt
96+49 Lt	192+38 Rt
96+50 Lt	

Approach Summary				
STATION	OFFSET	APPROACH TYPE *		COMMENT
		A	B	
11+95	RT	X		DREDGE LAKE ROAD
12+97	RT		X	
13+86	RT		X	
15+51	RT	X		
16+20	RT		X	
17+23	RT	X		LAKE AVENUE
18+80	LT	X		CONIFER LANE
19+82	RT	X		
20+58	RT	X		
23+83	LT		X	
26+00	LT		X	
27+58	LT		X	
28+55	RT	X		NATIONAL WEATHER SERVICE ROAD
29+22	LT		X	
30+74	LT		X	
32+60	LT	X		NORTH LOOP WAY
35+90	LT	X		NORTH LOOP WAY
37+51	RT		X	
38+38	LT	X		GLENDALE STREET
38+47	RT	X		CHELSEA COURT
41+11	LT	X		GLENDALE STREET
43+03	LT	X		TOURNURE ST./MINT WY.
44+60	RT	X		
47+33	RT		X	
62+27	LT	X		MENDENHALL RIVER SCHOOL
64+77	RT	X		ROADSIDE PULLOUT
68+97	RT	X		
70+55	RT		X	
72+44	LT	X	X	VIEW DRIVE
76+80	LT		X	
79+29	LT	X		RIVER ROAD
80+80	LT		X	
82+76	LT		X	
88+41	RT	X		MONTANA CREEK RD.
88+43	LT		X	
92+52	LT		X	
92+84	RT	X		BLUEBERRY LANE
96+47	LT	X		STEELHEAD STREET
96+58	RT		X	
96+93	LT		X	
98+93	LT	X		POWERS STREET
100+08	LT		X	
101+35	LT		X	
102+23	LT	X		
103+55	LT		X	
106+08	RT		X	
106+42	LT		X	
107+06	LT		X	
111+18	LT	X		WREN DRIVE
115+24	RT		X	
116+97	RT		X	
118+71	RT		X	
118+93	LT		X	NOT PAVED
132+42	RT		X	
132+97	LT		X	
134+98	LT		X	
138+35	LT	X		BEAR CK. SUB. ROAD
138+51	RT	X		
139+85	RT		X	
142+76	LT		X	

78+75

\* APPROACH TYPES ARE DETAILED ON SHEET D3. UPDATED 11/19/2002 1:13 PM

Approach Summary				
STATION	OFFSET	APPROACH TYPE *		COMMENT
		A	B	
79+25	LT	X		
158+88	LT		X	
166+60	RT		X	
179+75	LT		X	
186+74	RT		X	
217+60	RT		X	
146+75	RT		X	
172+75	LT		X	
170+76	RT		X	
TOTAL				1 8
143+80	RT		X	
144+26	LT		X	
145+82	RT		X	
146+47	LT		X	
147+20	RT		X	
148+27	RT		X	
148+76	LT	X		SPRING WAY
148+78	RT		X	
151+58	RT		X	
151+64	LT		X	
152+95	LT	X		GOAT HILL ROAD
153+51	RT		X	
167+89	LT		X	
168+46	RT		X	
169+01	RT		X	
170+39	LT		X	
170+56	RT		X	
172+17	LT		X	
172+29	RT		X	
172+93	LT		X	
174+83	RT	X		
175+94	RT	X		
176+36	LT	X		AUK KWAAN LANE
178+49	RT	X		WINDFALL AVENUE
179+05	LT		X	
181+84	LT	X		AUKE LANE
183+39	RT	X		
183+51	LT		X	
183+58	RT		X	
183+82	LT		X	
184+59	LT		X	
186+60	RT		X	
186+98	LT		X	
188+31	RT		X	
189+21	LT		X	
190+99	LT		X	
191+51	RT		X	
192+52	RT		X	
196+32	RT		X	
197+99	LT		X	
199+38	RT		X	
201+10	LT		X	
202+70	RT	X		LEE STREET
203+48	LT		X	
204+74	RT		X	
205+41	LT		X	
205+77	RT	X		
206+61	RT		X	
206+69	LT		X	
207+75	RT		X	
208+39	LT	X		AUKE LAKE WAY
209+68	RT		X	
210+78	RT		X	
211+91	RT		X	
212+75	RT		X	
213+29	RT		X	
214+63	RT		X	
216+11	RT		X	
216+47	LT	X		CAROLINE STREET
TOTAL				39 79

ADDENDUM NUMBER  
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)  
**Approach Summary**

DESIGNED BY: J. OSBURN



CHECKED BY: L. GREGOVICH  
DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
**JNU - BACK LOOP ROAD PAVEMENT REHABILITATION**

Approach Summary

PROJECT DESIGNATION NUMBER	
68542~IM-0966(23)	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
C2	29

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

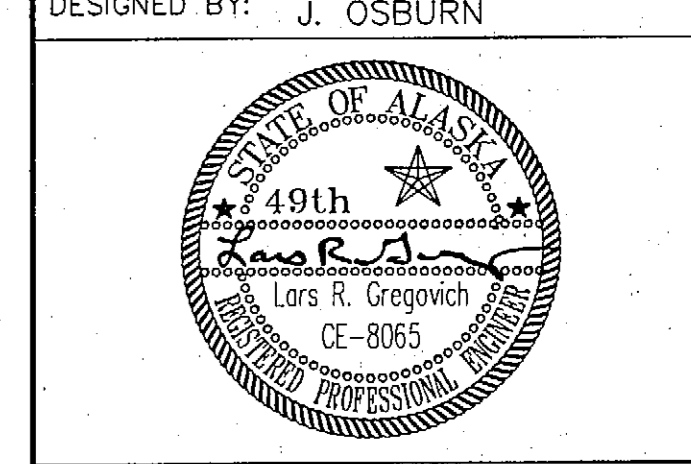
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

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**Construction Phasing Plan**

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

DESIGNED BY: J. OSBURN



CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

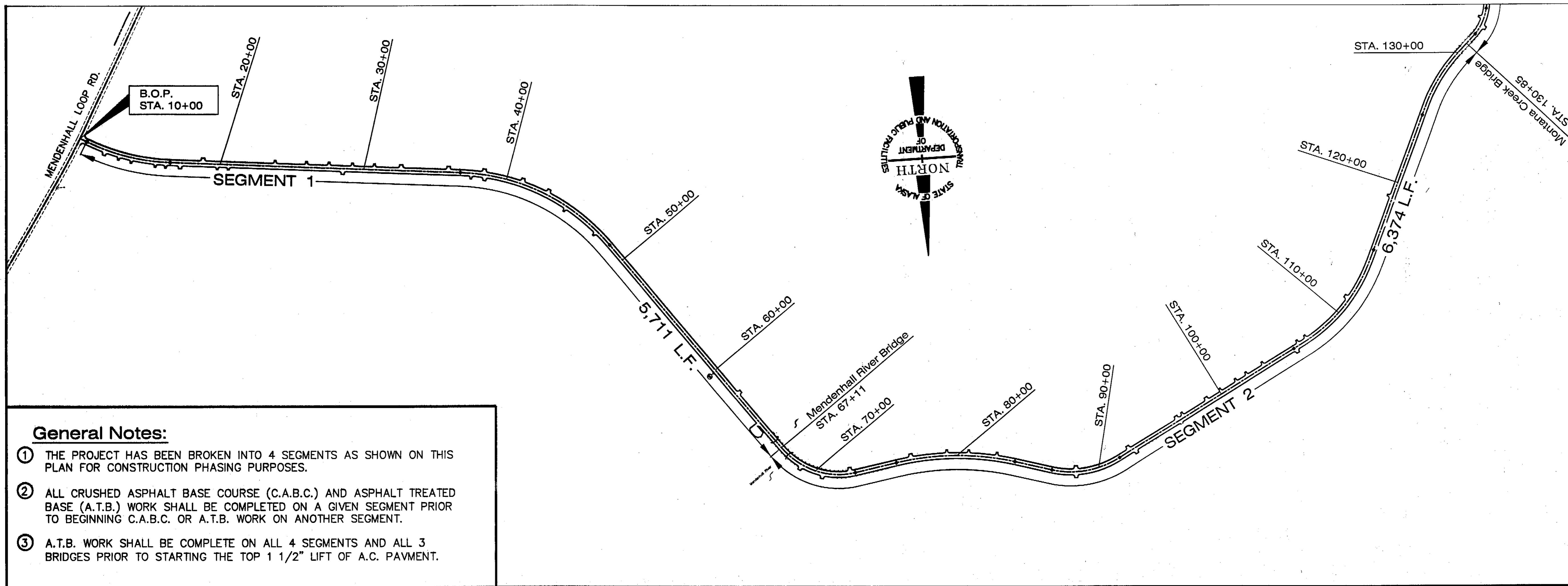
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

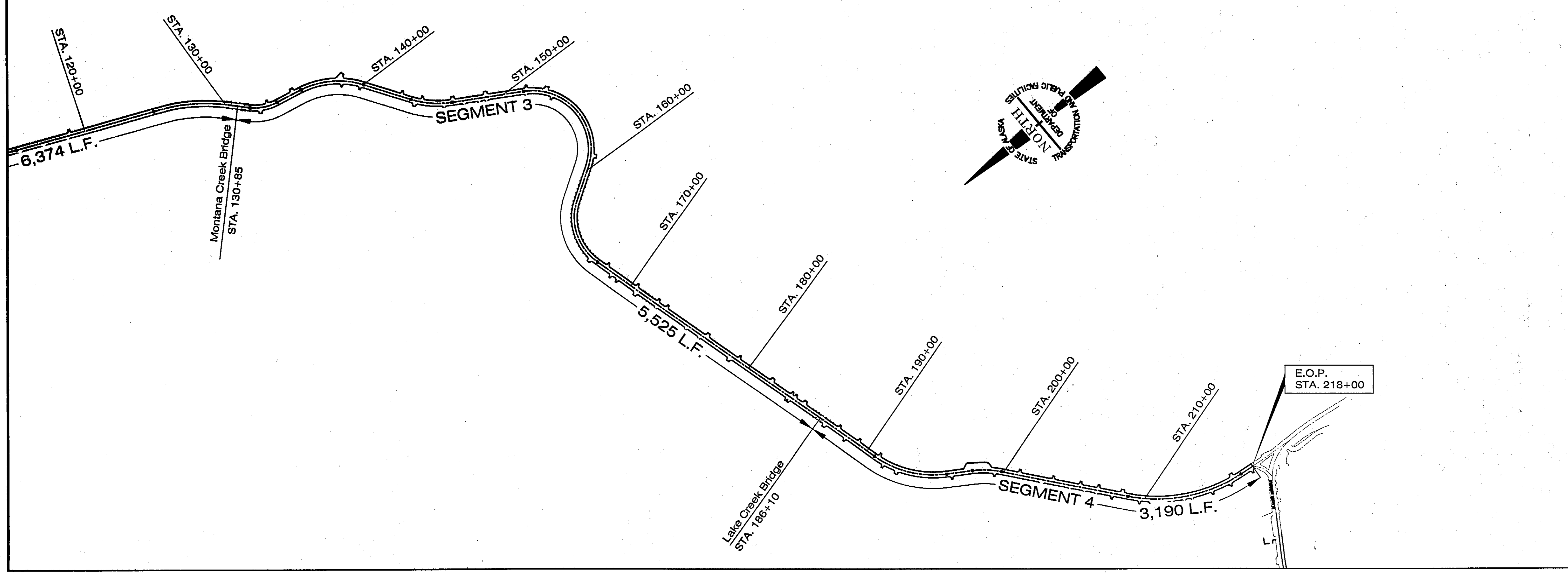
**Construction Phasing Plan**

PROJECT DESIGNATION NUMBER  
 68542~IM-0966(23)

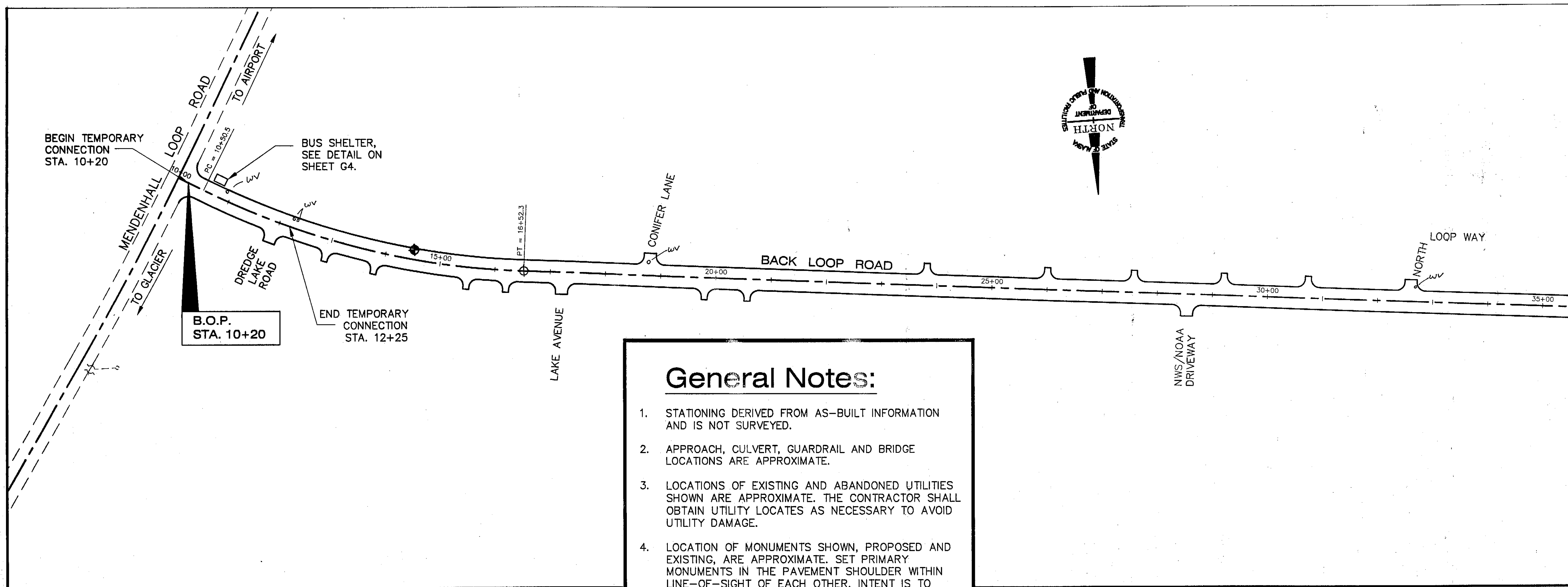
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
D1	29



- General Notes:**
- THE PROJECT HAS BEEN BROKEN INTO 4 SEGMENTS AS SHOWN ON THIS PLAN FOR CONSTRUCTION PHASING PURPOSES.
  - ALL CRUSHED ASPHALT BASE COURSE (C.A.B.C.) AND ASPHALT TREATED BASE (A.T.B.) WORK SHALL BE COMPLETED ON A GIVEN SEGMENT PRIOR TO BEGINNING C.A.B.C. OR A.T.B. WORK ON ANOTHER SEGMENT.
  - A.T.B. WORK SHALL BE COMPLETE ON ALL 4 SEGMENTS AND ALL 3 BRIDGES PRIOR TO STARTING THE TOP 1 1/2" LIFT OF A.C. PAVEMENT.

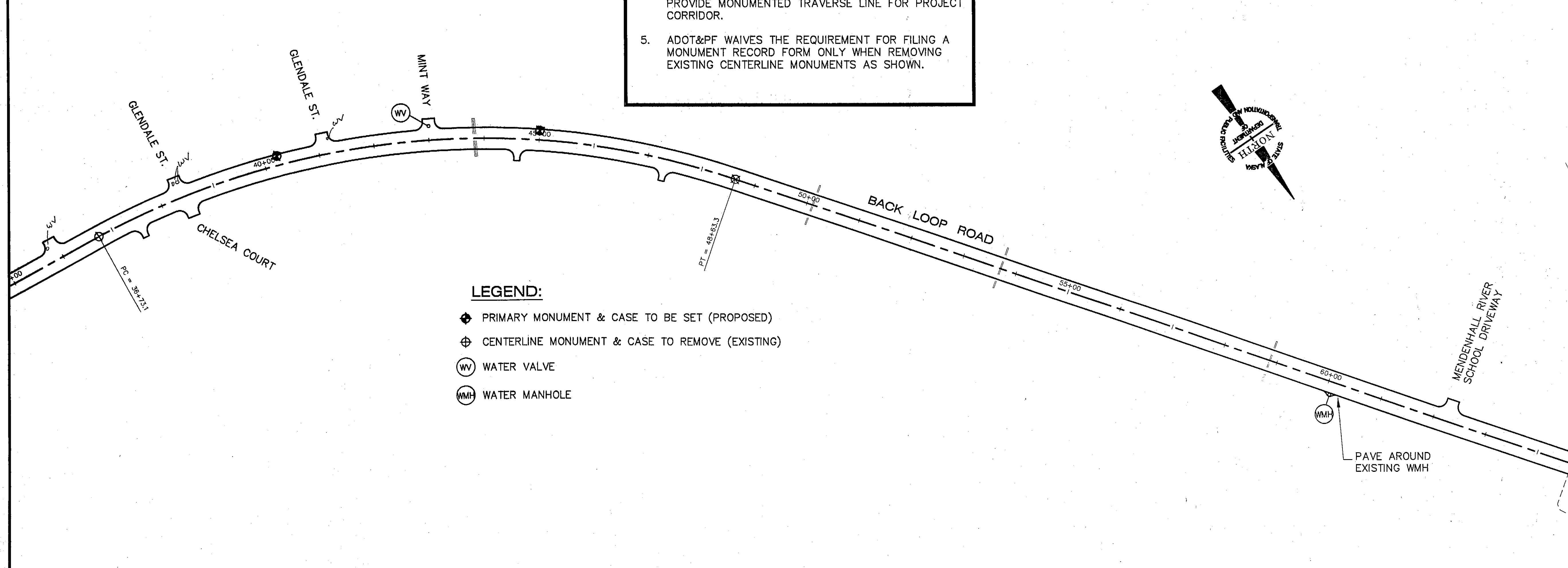


ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



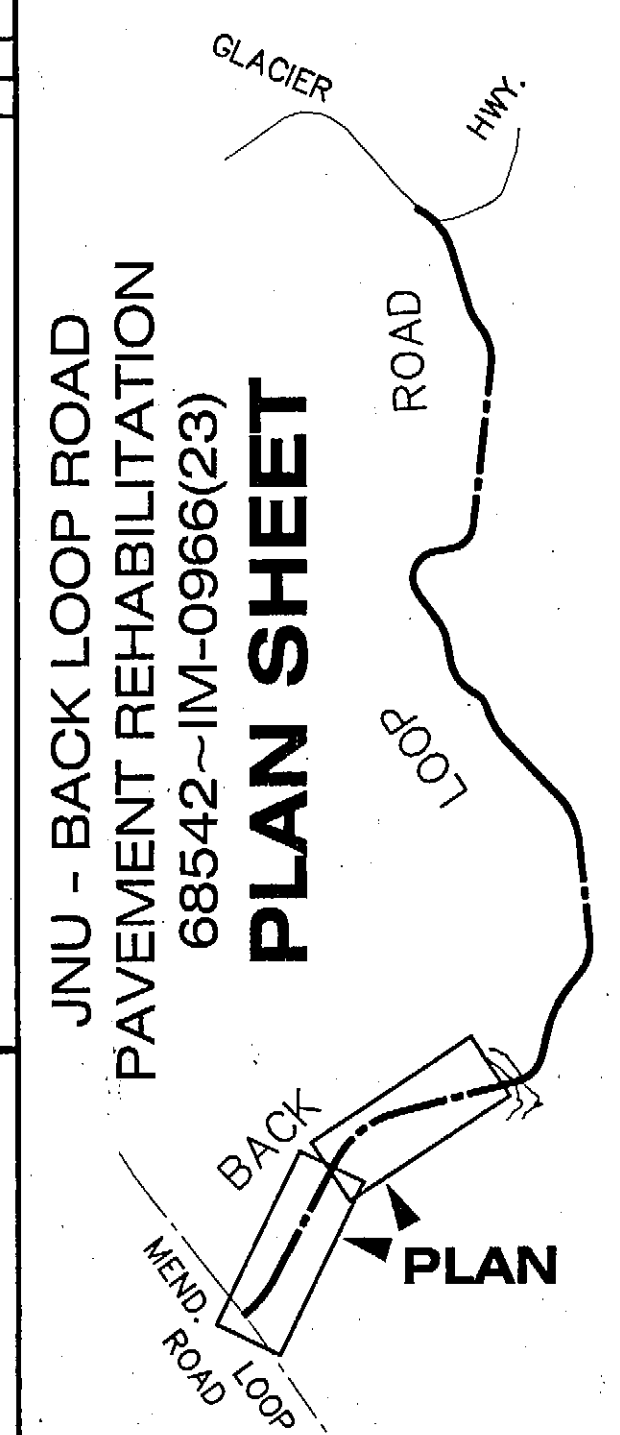
**General Notes:**

1. STATIONING DERIVED FROM AS-BUILT INFORMATION AND IS NOT SURVEYED.
2. APPROACH, CULVERT, GUARDRAIL AND BRIDGE LOCATIONS ARE APPROXIMATE.
3. LOCATIONS OF EXISTING AND ABANDONED UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL OBTAIN UTILITY LOCATES AS NECESSARY TO AVOID UTILITY DAMAGE.
4. LOCATION OF MONUMENTS SHOWN, PROPOSED AND EXISTING, ARE APPROXIMATE. SET PRIMARY MONUMENTS IN THE PAVEMENT SHOULDER WITHIN LINE-OF-SIGHT OF EACH OTHER. INTENT IS TO PROVIDE MONUMENTED TRAVERSE LINE FOR PROJECT CORRIDOR.
5. ADOT&PF WAIVES THE REQUIREMENT FOR FILING A MONUMENT RECORD FORM ONLY WHEN REMOVING EXISTING CENTERLINE MONUMENTS AS SHOWN.



**LEGEND:**

- ◆ PRIMARY MONUMENT & CASE TO BE SET (PROPOSED)
- ⊕ CENTERLINE MONUMENT & CASE TO REMOVE (EXISTING)
- (WV) WATER VALVE
- (WMH) WATER MANHOLE



**LAYOUT PLAN KEY MAP**

DESIGNED BY: J. OSBURN



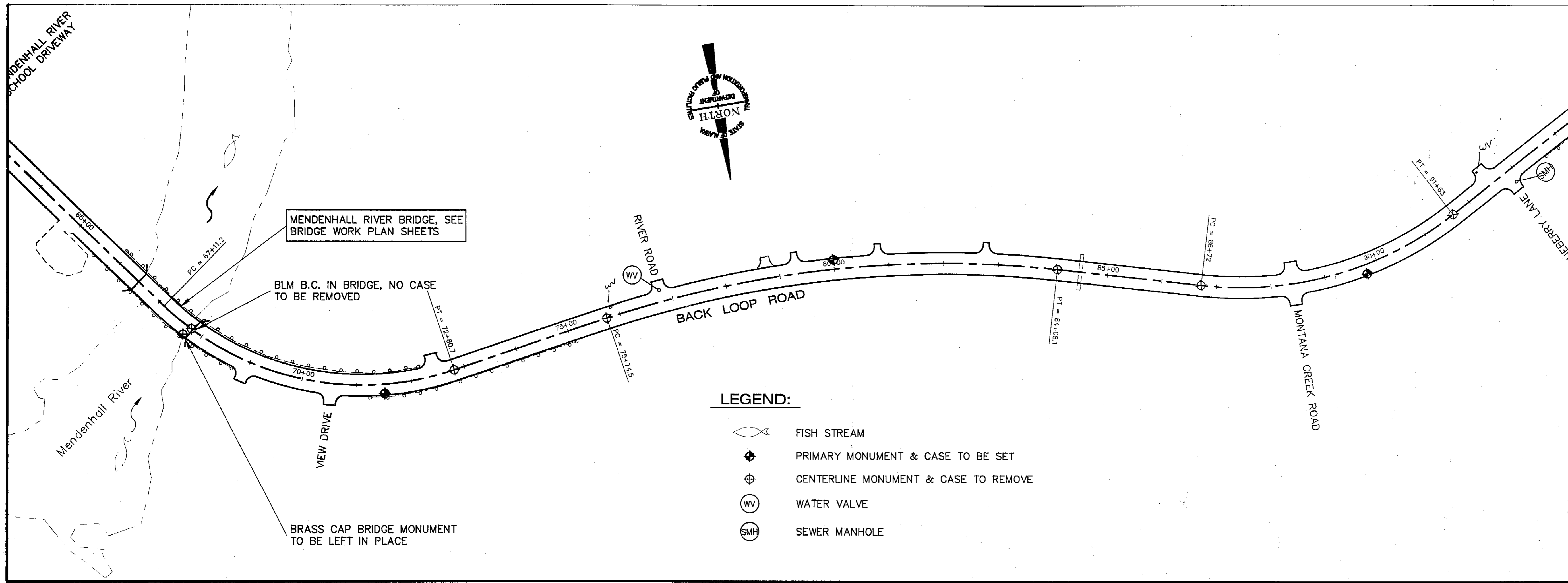
CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION






**JNU - BACK LOOP ROAD PAVEMENT REHABILITATION PLAN SHEET B.O.P. TO STA. 64+00**

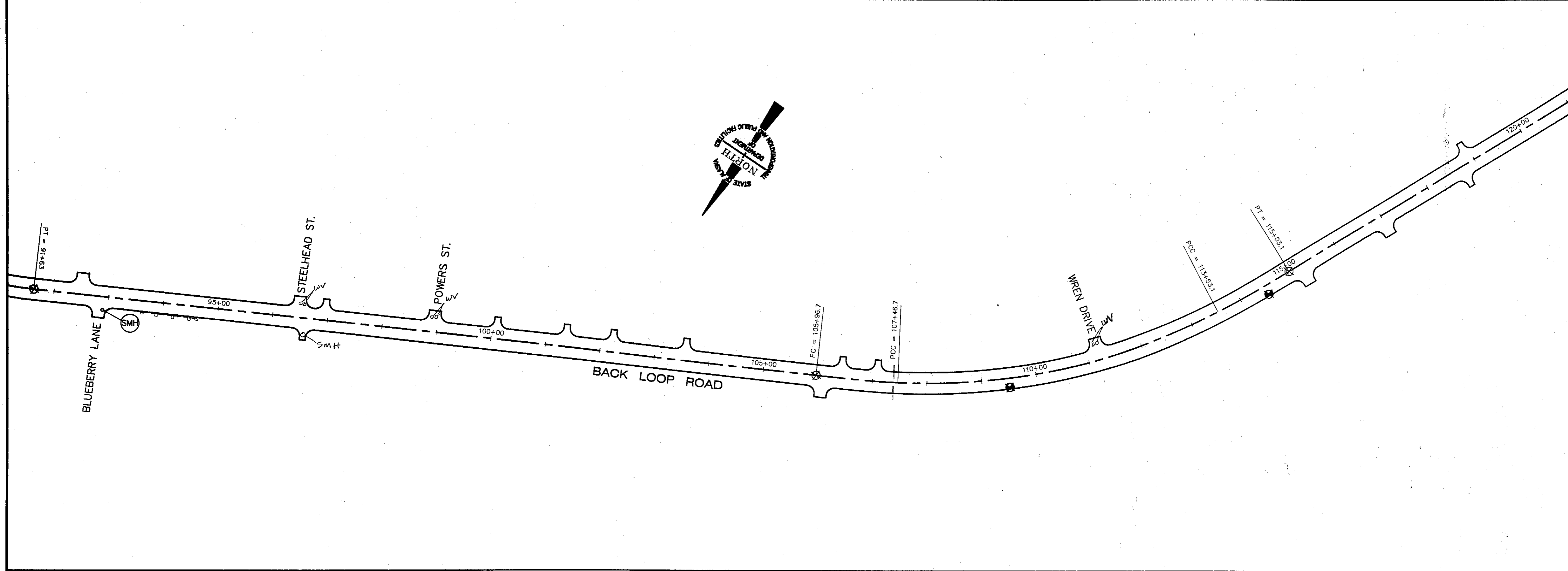
PROJECT DESIGNATION NUMBER  
**68542-IM-0966(23)**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F1	29



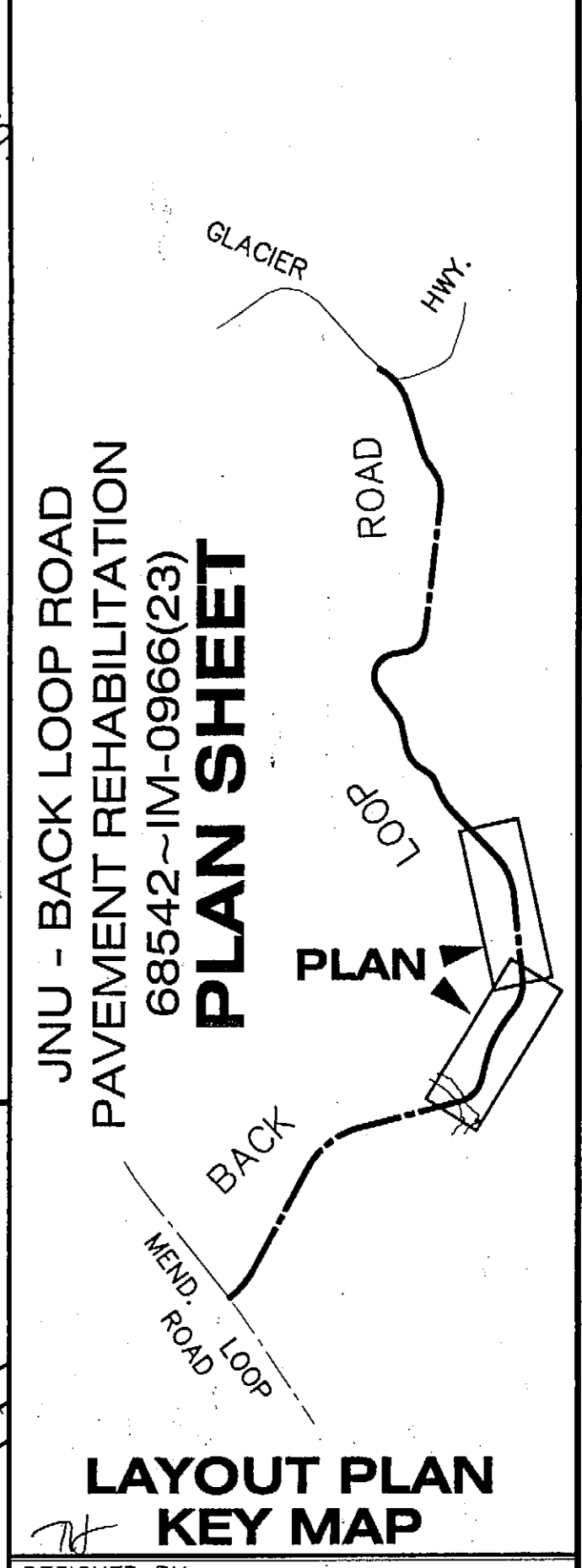
**LEGEND:**

-  FISH STREAM
-  PRIMARY MONUMENT & CASE TO BE SET
-  CENTERLINE MONUMENT & CASE TO REMOVE
-  WATER VALVE
-  SEWER MANHOLE



PATH: Q:\Jnu\68542\PlanSet\F1-4\_Plan.dwg  
 Thu, 20/Mar/03 01:27PM  
 PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)  
 TAB: TYPICALS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**LAYOUT PLAN KEY MAP**  
 DESIGNED BY: J. OSBURN

CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

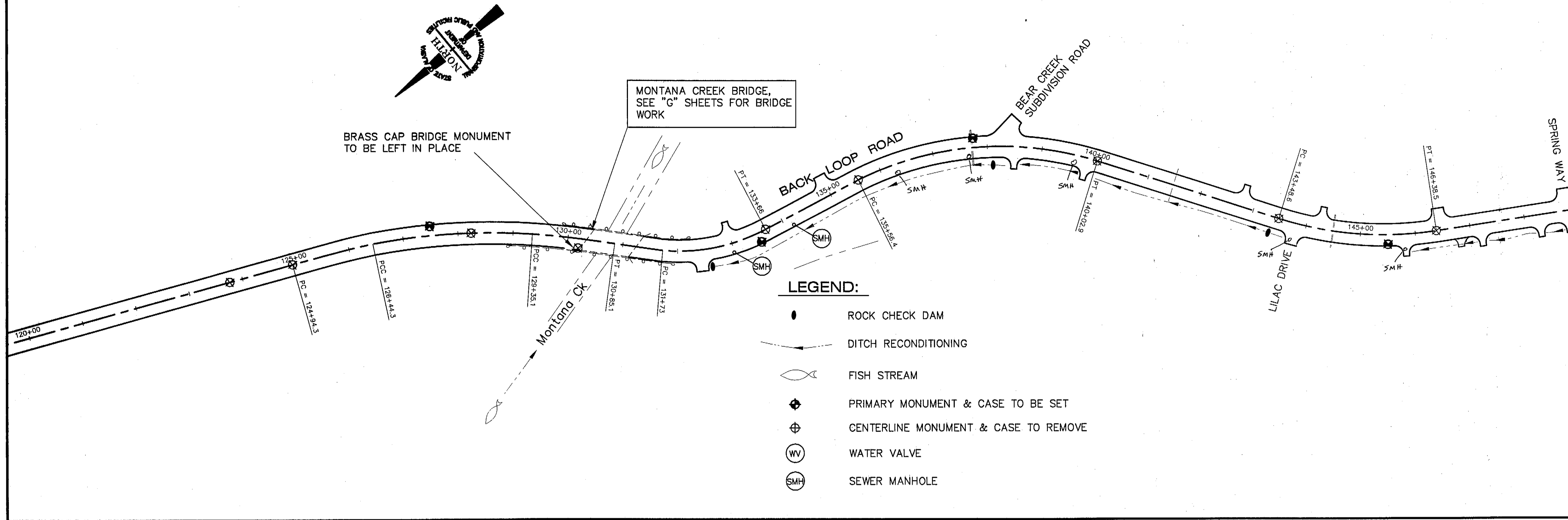
**JNU - BACK LOOP ROAD PAVEMENT REHABILITATION**  
**PLAN SHEET**  
**STA. 64+00 TO STA. 120+00**

PROJECT DESIGNATION NUMBER  
**68542~IM-0966(23)**

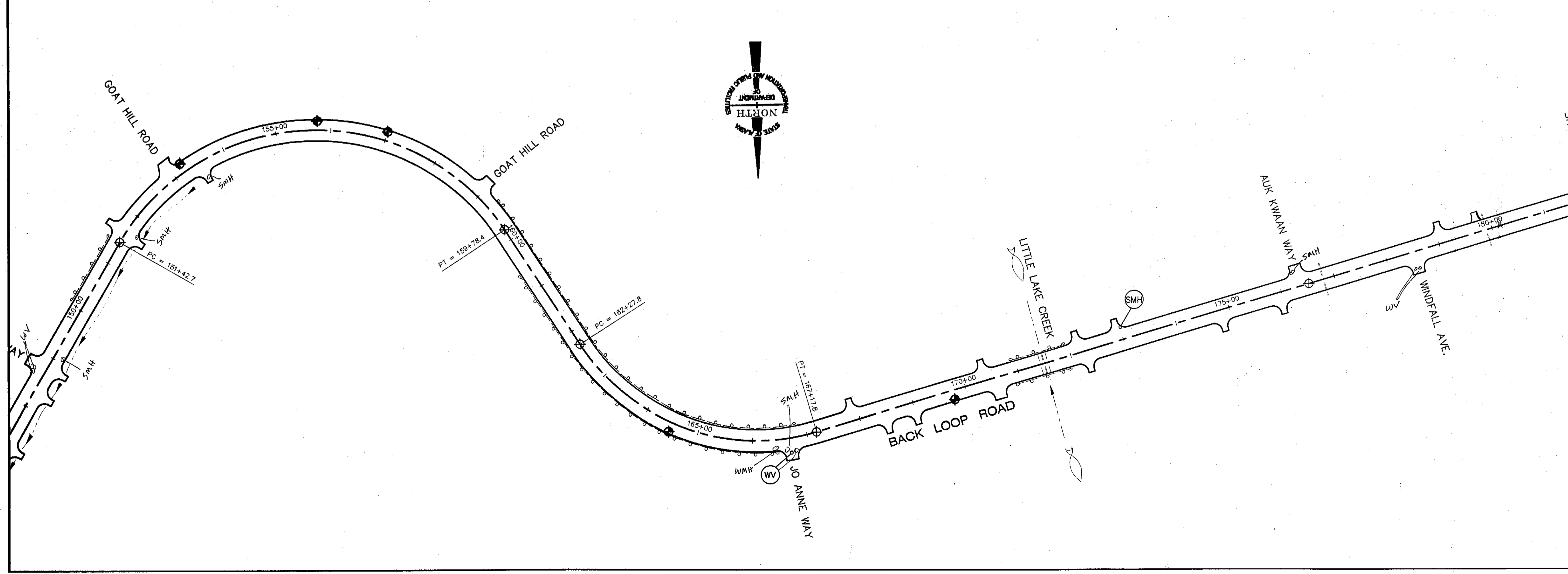
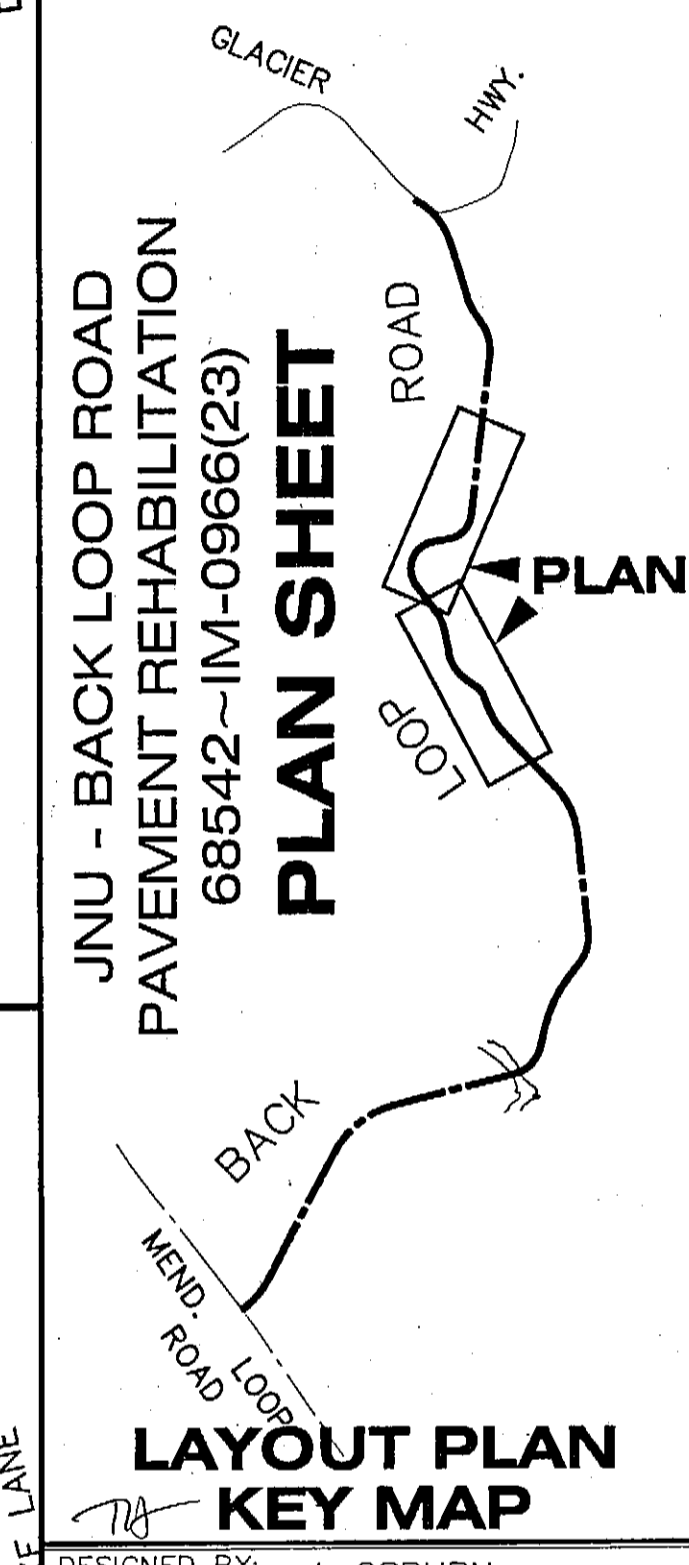
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F2	29



ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



- LEGEND:**
- ROCK CHECK DAM
  - DITCH RECONDITIONING
  - ⊕ FISH STREAM
  - ⊕ PRIMARY MONUMENT & CASE TO BE SET
  - ⊕ CENTERLINE MONUMENT & CASE TO REMOVE
  - ⊕ WV WATER VALVE
  - ⊕ SMH SEWER MANHOLE



DESIGNED BY: J. OSBURN

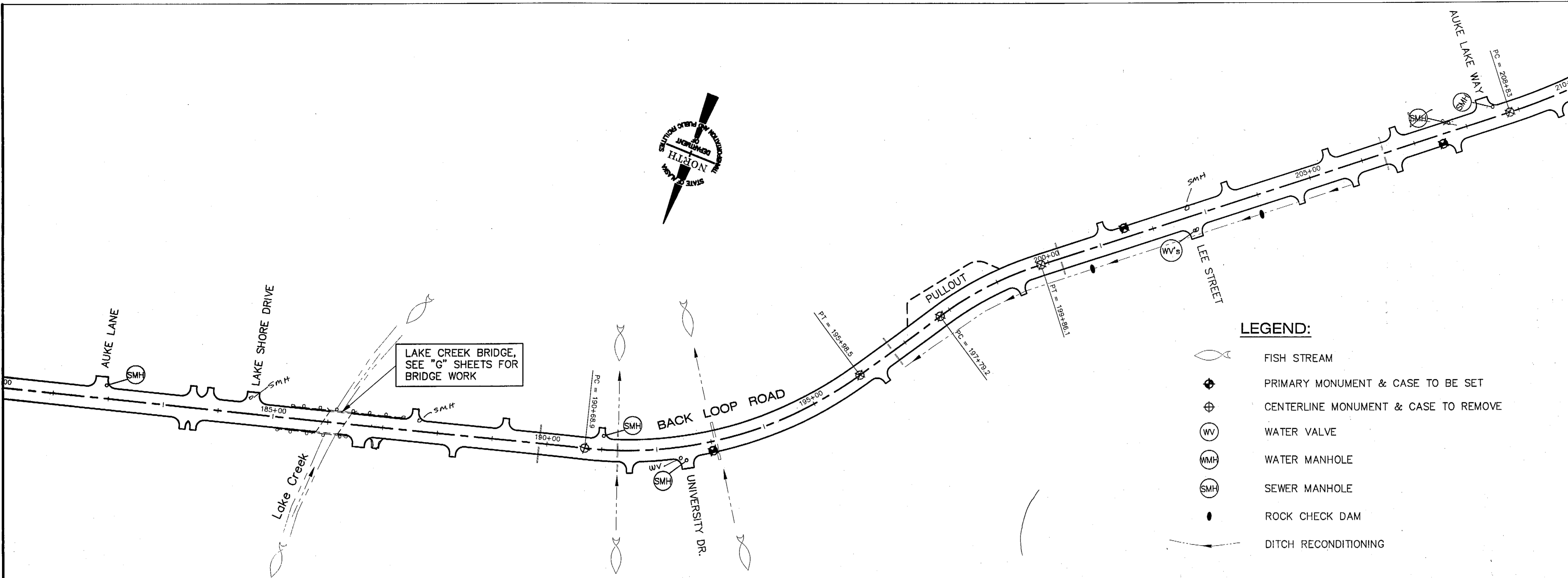
CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

**JNU - BACK LOOP ROAD PAVEMENT REHABILITATION**  
**PLAN SHEET**  
**STA. 120+00 TO STA. 181+00**

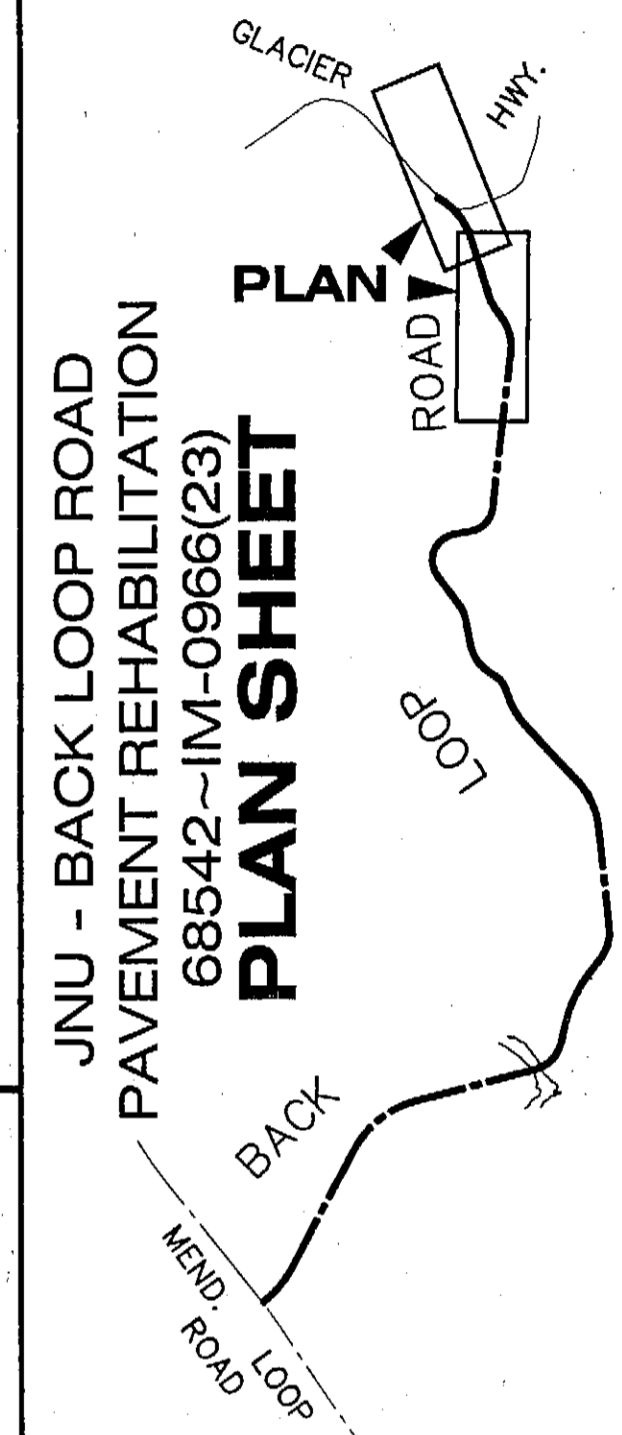
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68542~IM-0966(23)	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F3	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



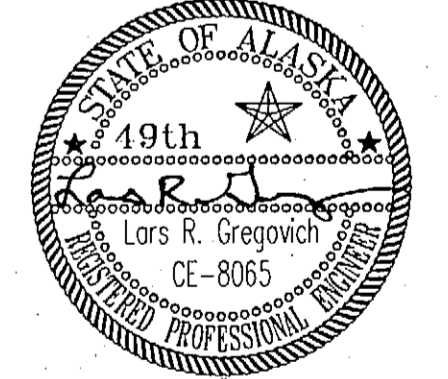
**LEGEND:**

- FISH STREAM
- PRIMARY MONUMENT & CASE TO BE SET
- CENTERLINE MONUMENT & CASE TO REMOVE
- WATER VALVE
- WATER MANHOLE
- SEWER MANHOLE
- ROCK CHECK DAM
- DITCH RECONDITIONING



**LAYOUT PLAN KEY MAP**

DESIGNED BY: J. OSBURN



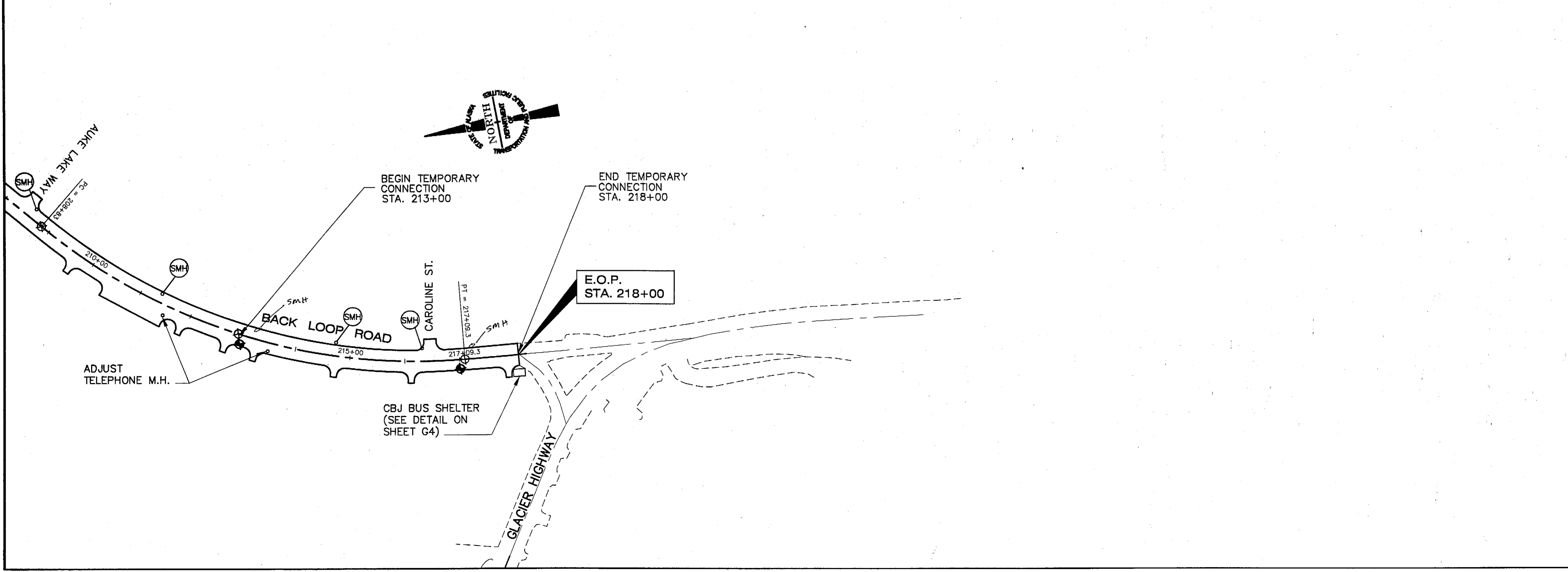
CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

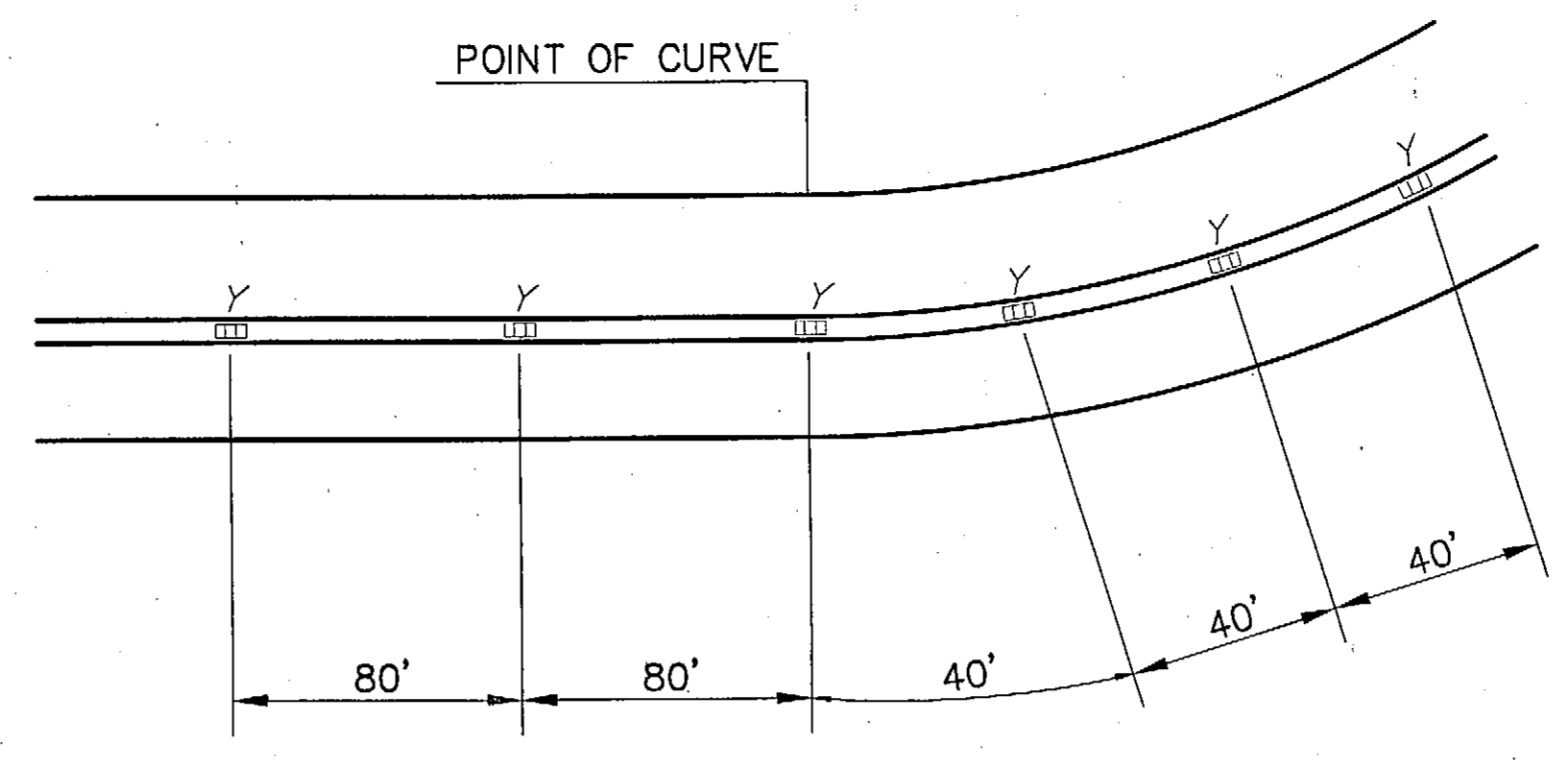
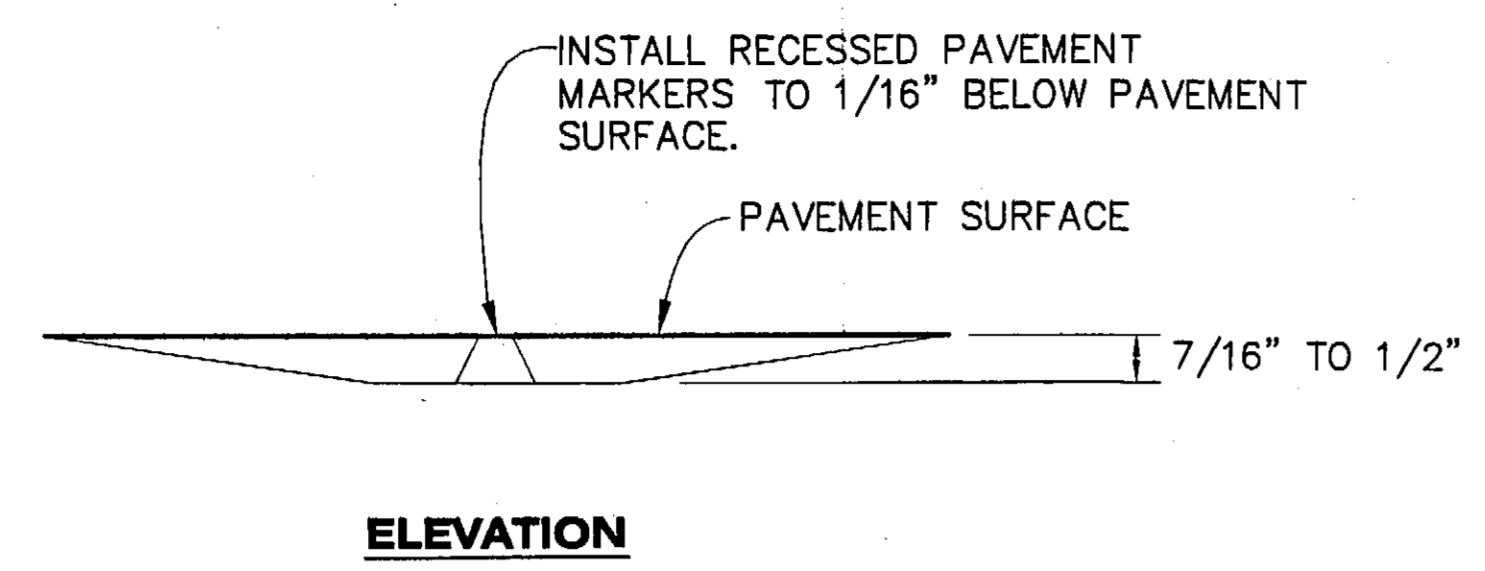
**JNU - BACK LOOP ROAD PAVEMENT REHABILITATION PLAN SHEET STA. 181+00 TO E.O.P.**

PROJECT DESIGNATION NUMBER  
**68542-IM-0966(23)**

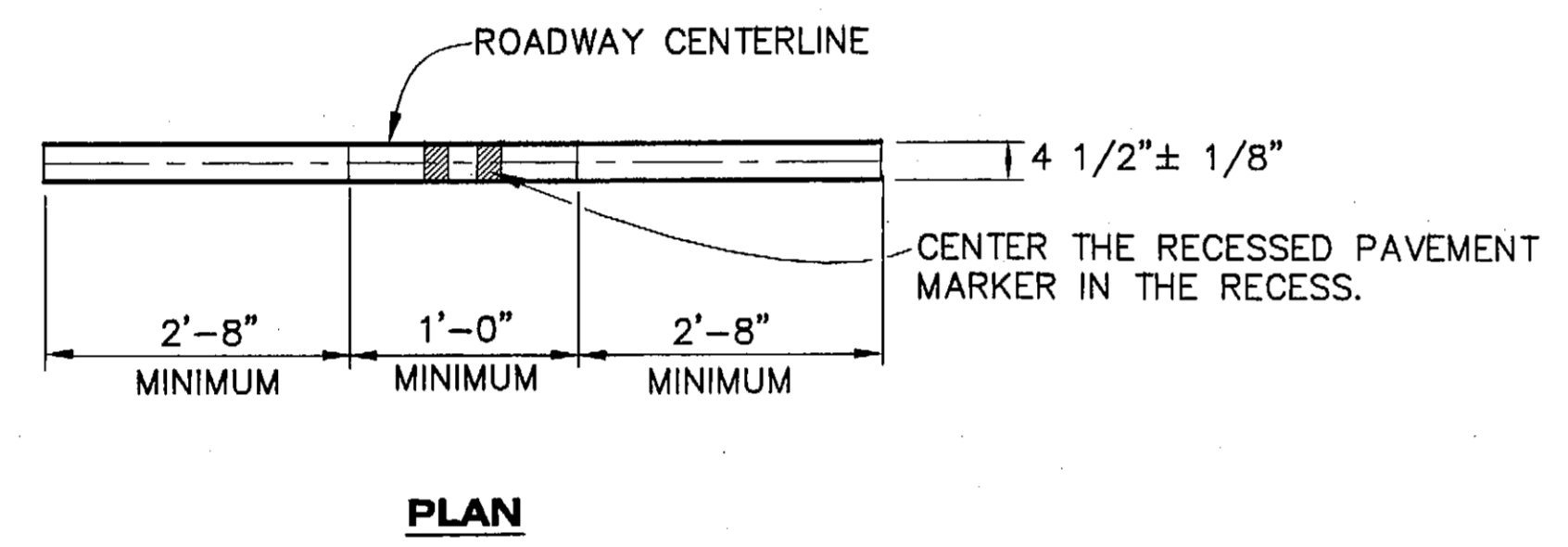
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ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F4	29



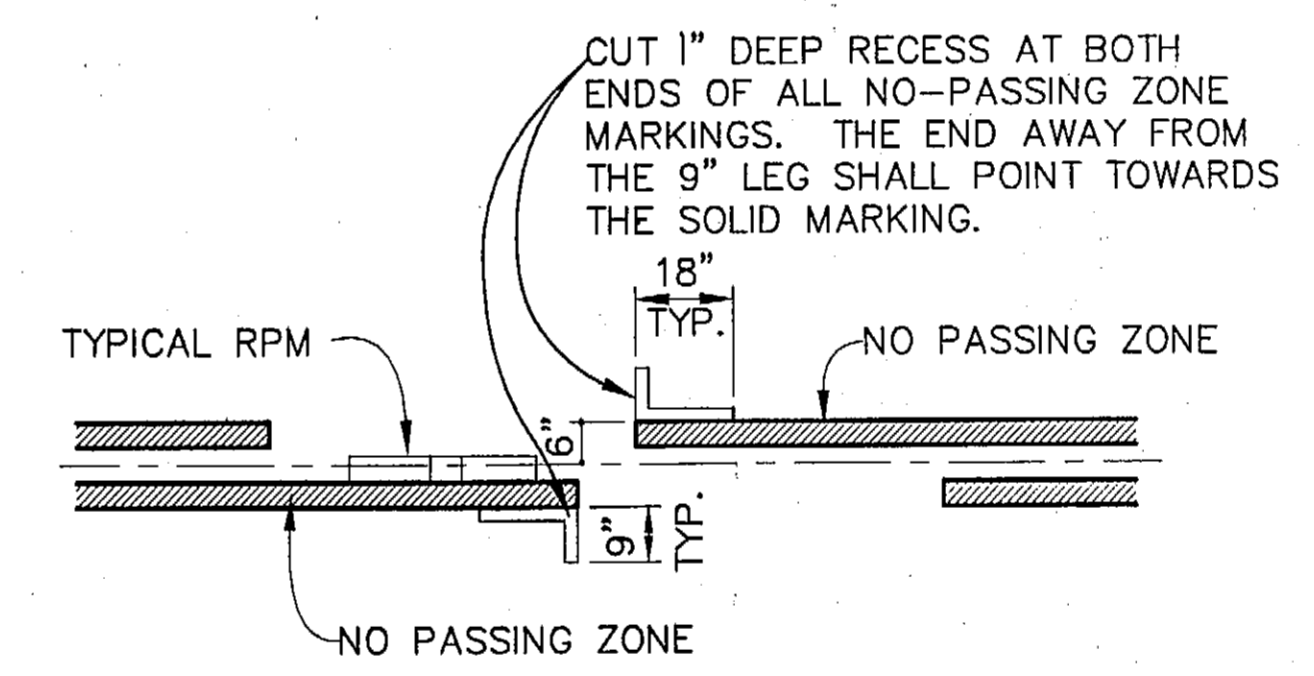
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**TWO LANE, TWO WAY DETAIL  
 RECESSED PAVEMENT MARKER**



**RECESSED PAVEMENT MARKER DETAIL**



**NO-PASSING GROOVES**

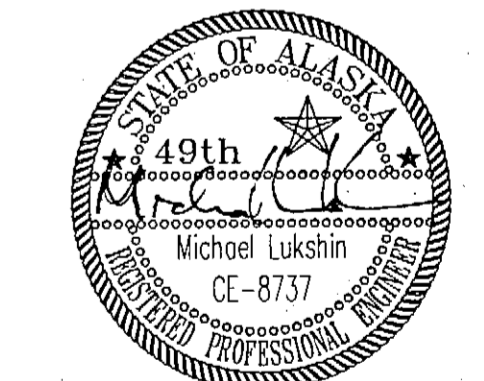
**RPM NOTES:**

1. LATERAL PLACEMENT OF RECESSED PAVEMENT MARKERS SHALL BE BETWEEN DOUBLE YELLOW STRIPES ON CENTERLINE.
2. LOCATIONS OF MARKERS IN SITUATIONS WITH UNUSUAL GEOMETRICS WILL BE DETERMINED BY THE PROJECT ENGINEER.
3. RPM QUANTITIES ARE APPROXIMATE ONLY AND MAY VARY.
4. ALL RPM'S WILL BE TWO SIDED, YELLOW.

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

**Miscellaneous Details**

DESIGNED BY: R. Purves



CHECKED BY: M. Lukshin  
 DRAWN BY: D. Stevens

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

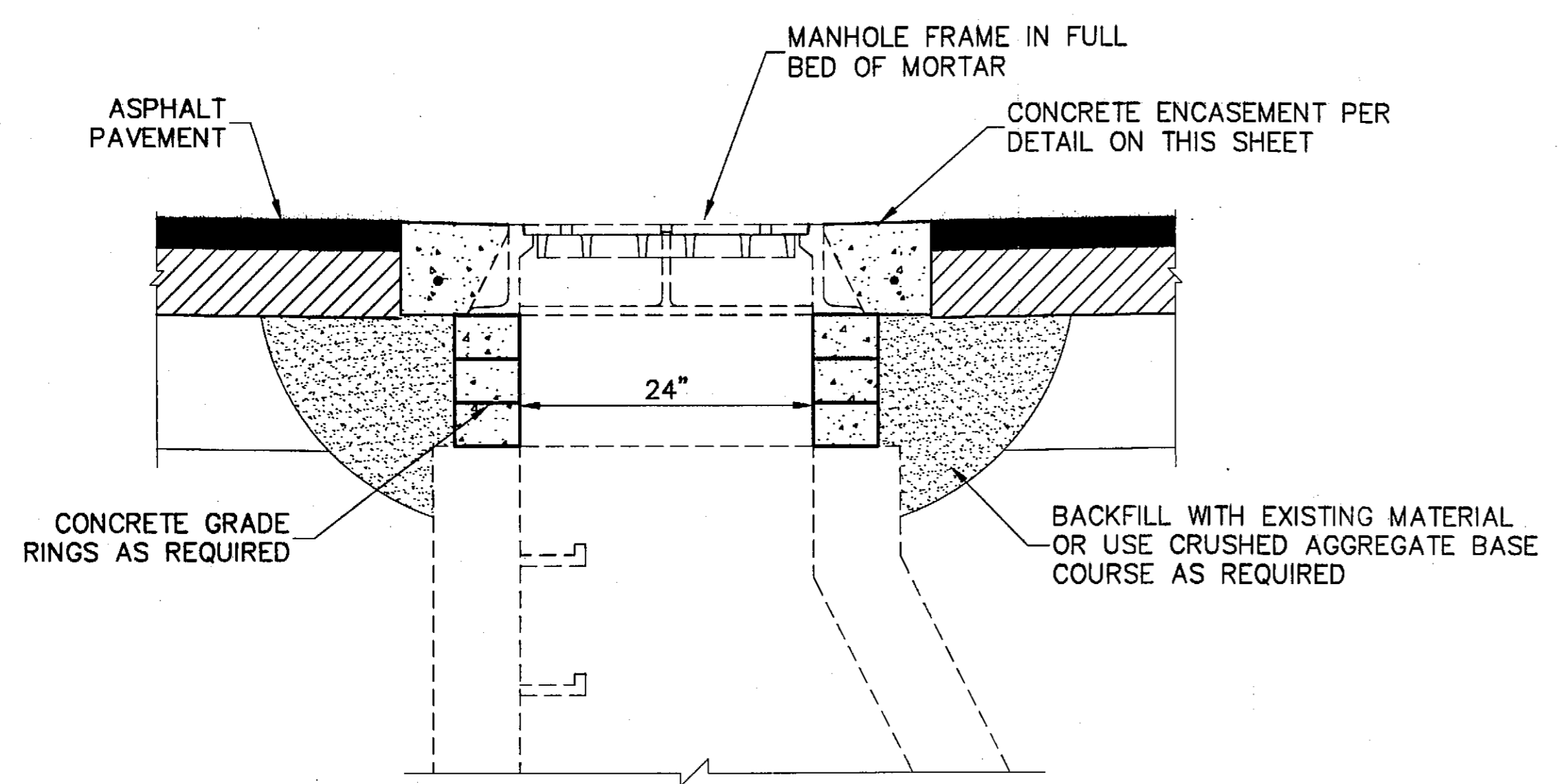
JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

**Miscellaneous  
 Details**

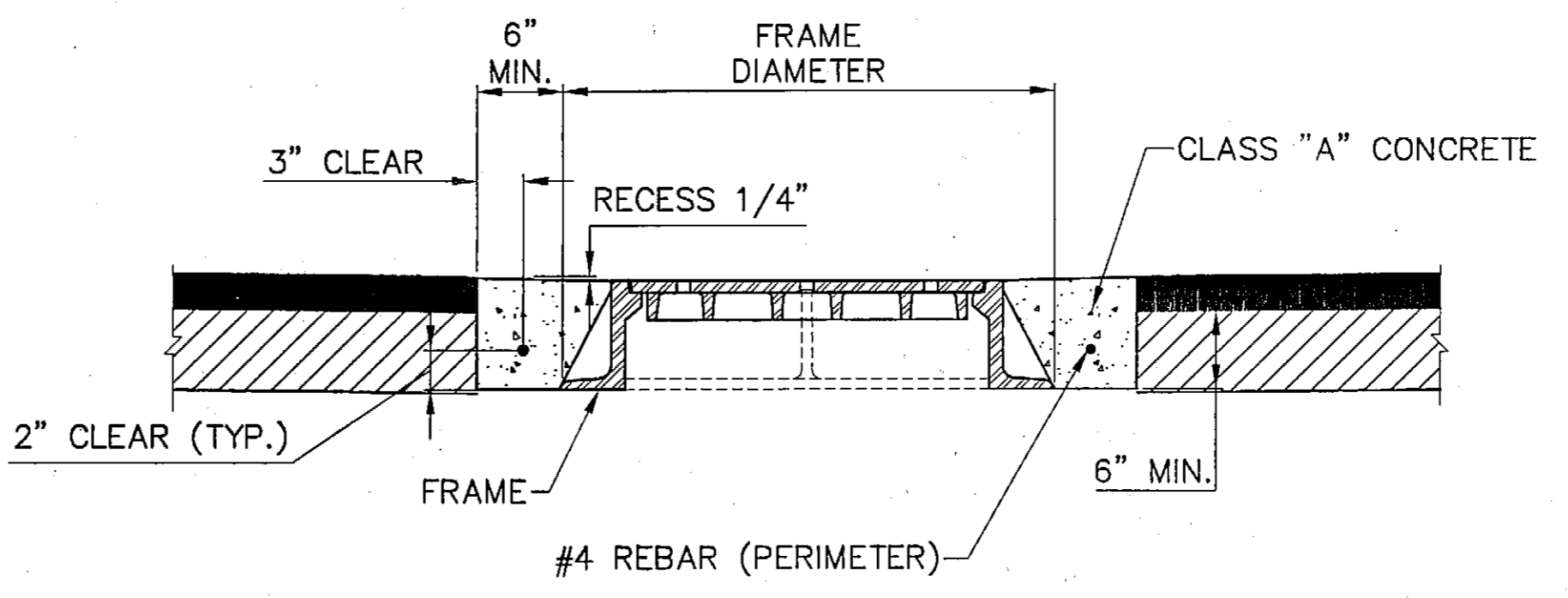
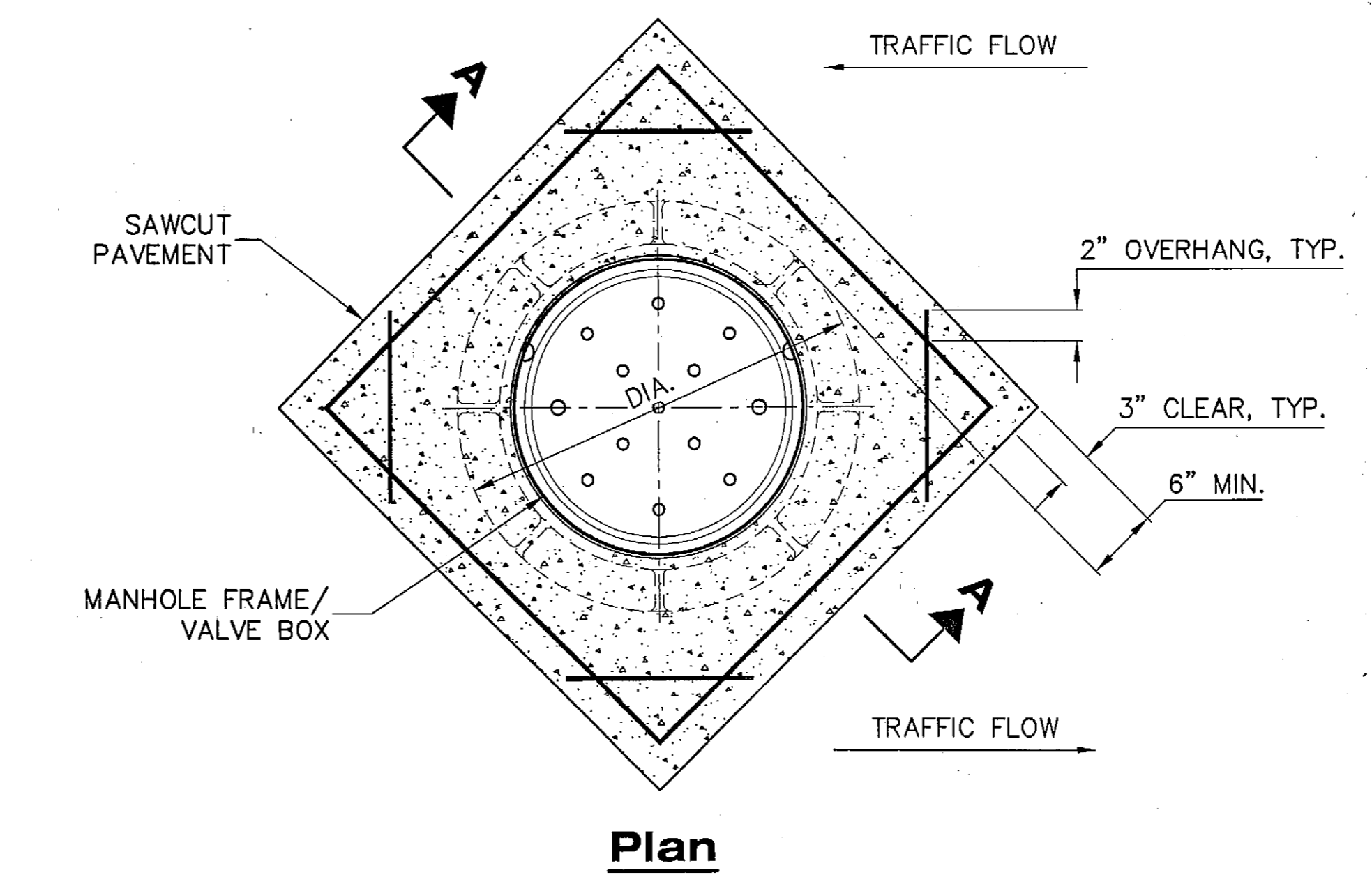
PROJECT DESIGNATION NUMBER  
 68542~IM-0966(23)

STATE	YEAR
ALASKA	2003

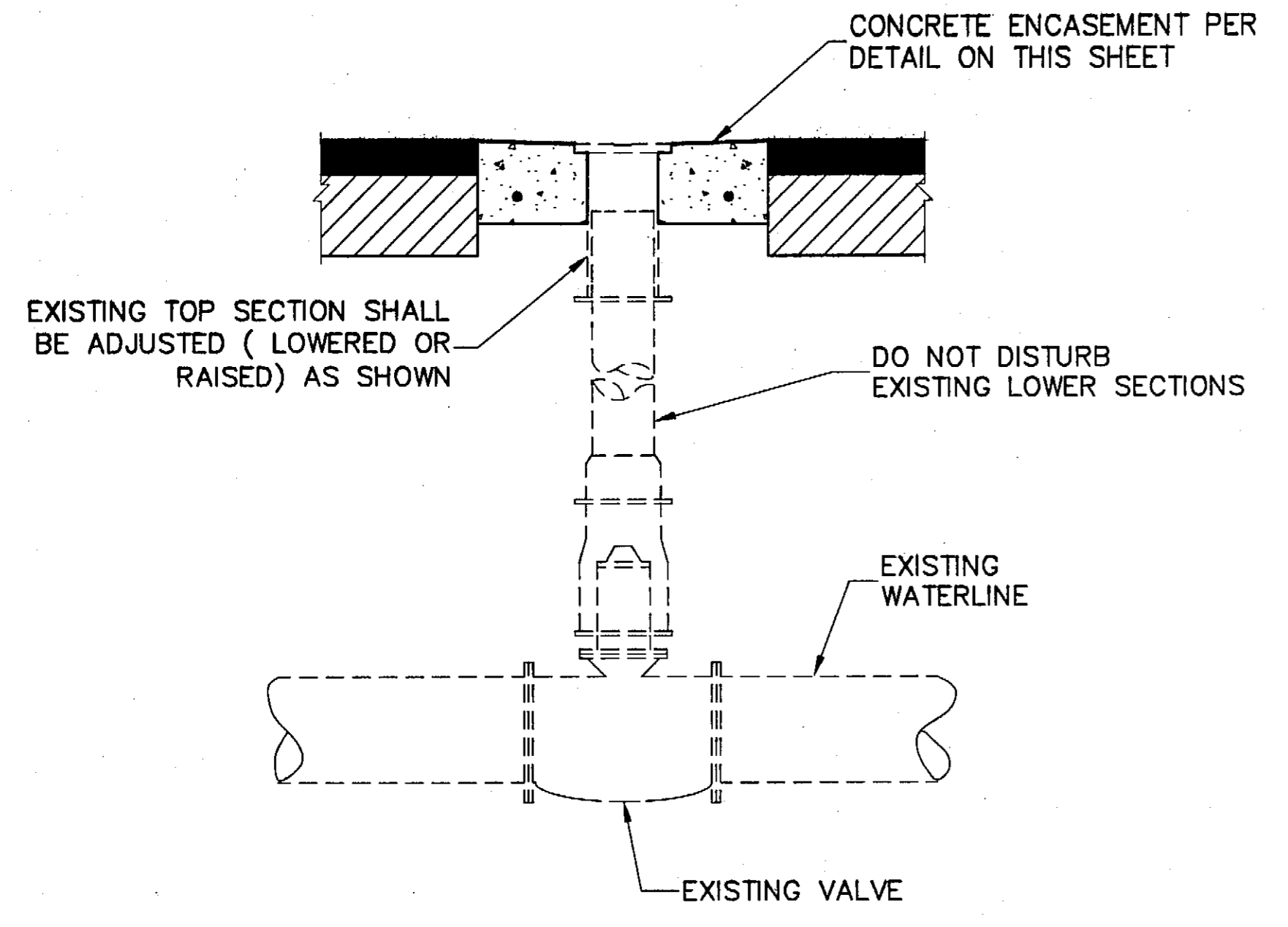
SHEET NUMBER	TOTAL SHEETS
G1	29



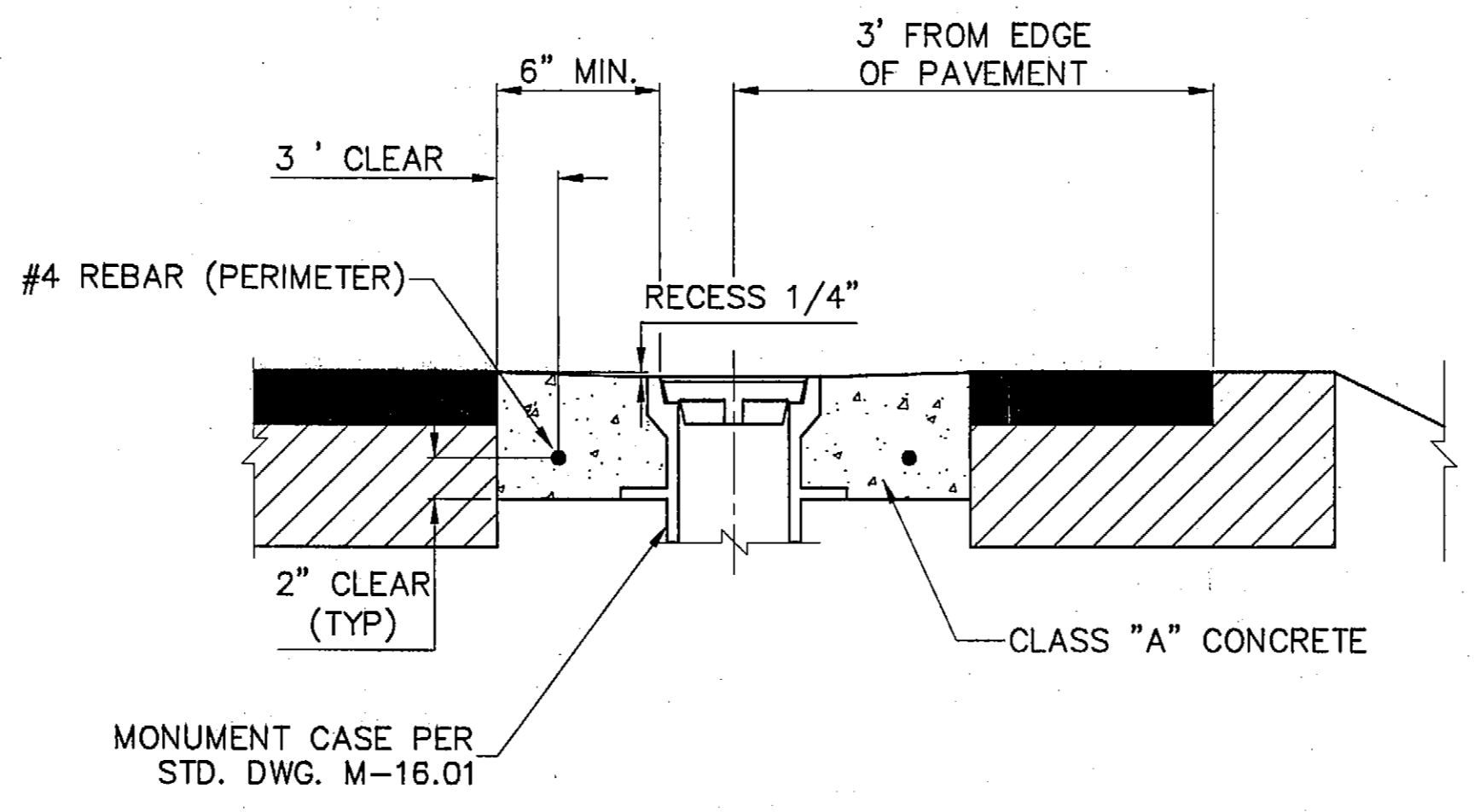
**Manhole Adjustment**



**Concrete Encasement Detail**



**Valve Box Adjustment Detail**



**Monument Encasement Detail**

**Notes:**

- 1) MANHOLE ADJUSTMENT SHALL BE MADE WITH GRADE RINGS NOT EXCEEDING 12" TOTAL HEIGHT BETWEEN BOTTOM OF MANHOLE FRAME AND TOP OF MANHOLE CONE.
- 2) NEW STEP(S) AS DETAILED IN STD. DRAWINGS D-20.02 SHALL BE INSTALLED ON THE EXISTING MANHOLE IF THE FIRST STEP EXCEED 36" FROM THE TOP OF MANHOLE FRAME, FOR MANHOLE RECONSTRUCTION/ADJUSTMENT.
- 3) ANY RECONSTRUCTED OR ADJUSTED MANHOLES MUST CONFORM TO STANDARD DIMENSIONS.
- 4) CONCRETE ENCASEMENT IS NOT REQUIRED IF MANHOLE, MONUMENTS OR VALVE BOX ARE LOCATED OFF THE ROADWAY.
- 5) REFER TO PLAN SHEETS FOR APPROXIMATE LOCATIONS.

DESIGNED BY: J. OSBURN

CHECKED BY: L. GREGOVICH

DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

**Miscellaneous Details**

PROJECT DESIGNATION NUMBER  
 68542~IM-0966(23)

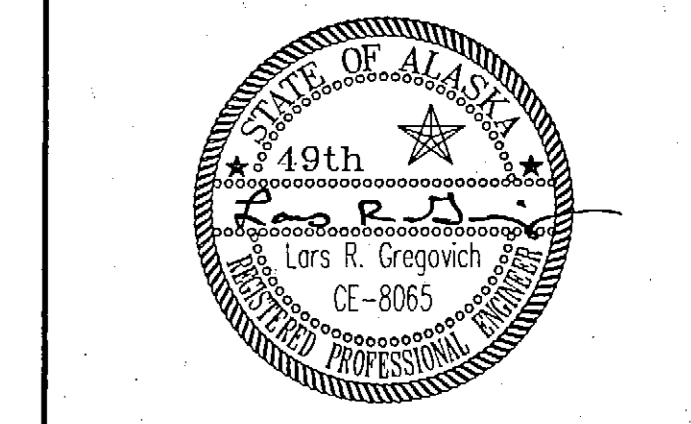
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
G2	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

Miscellaneous Details

DESIGNED BY: J. OSBURN

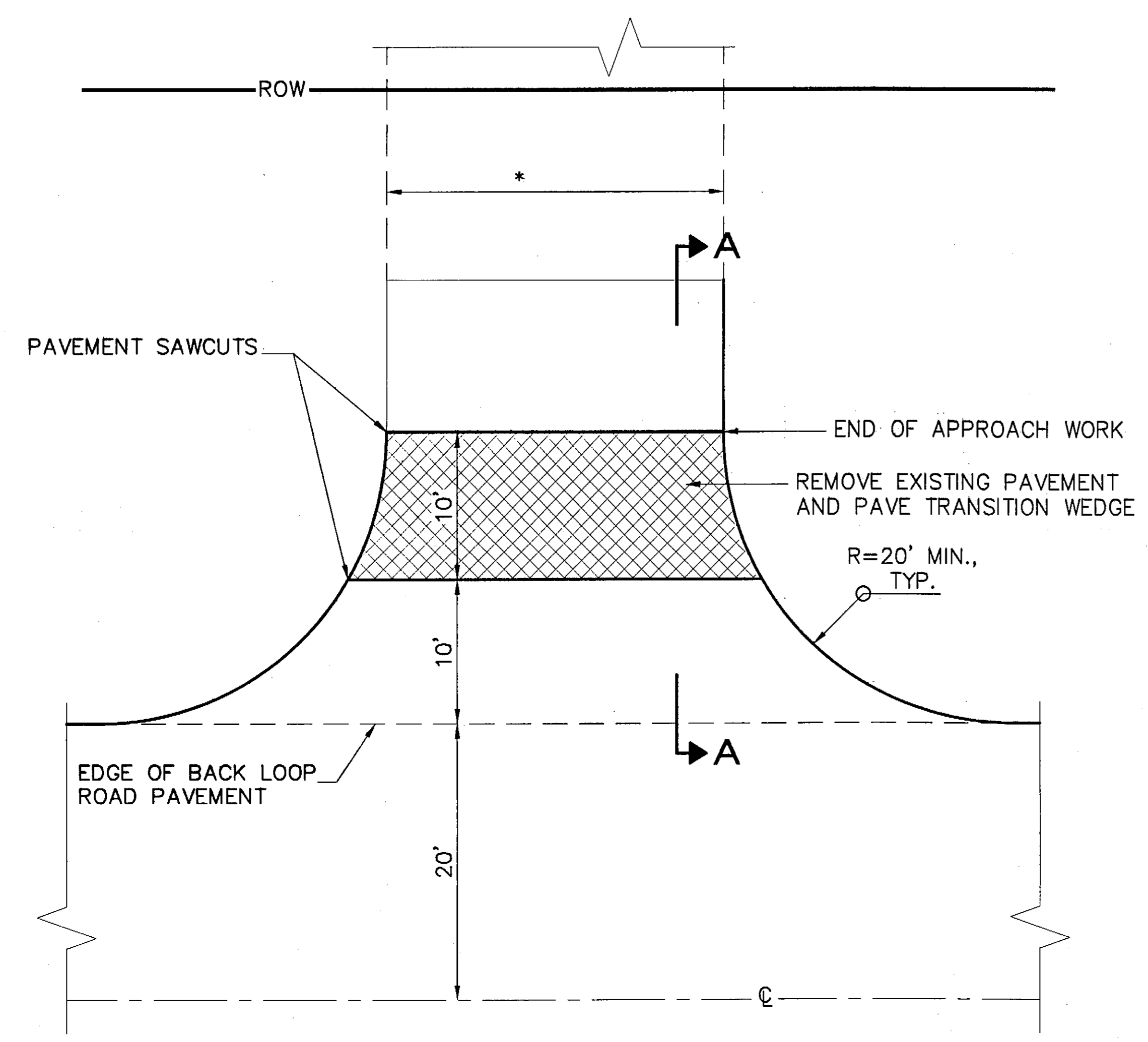


CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

Miscellaneous Details

PROJECT DESIGNATION NUMBER	
68542~IM-0966(23)	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
G3	29

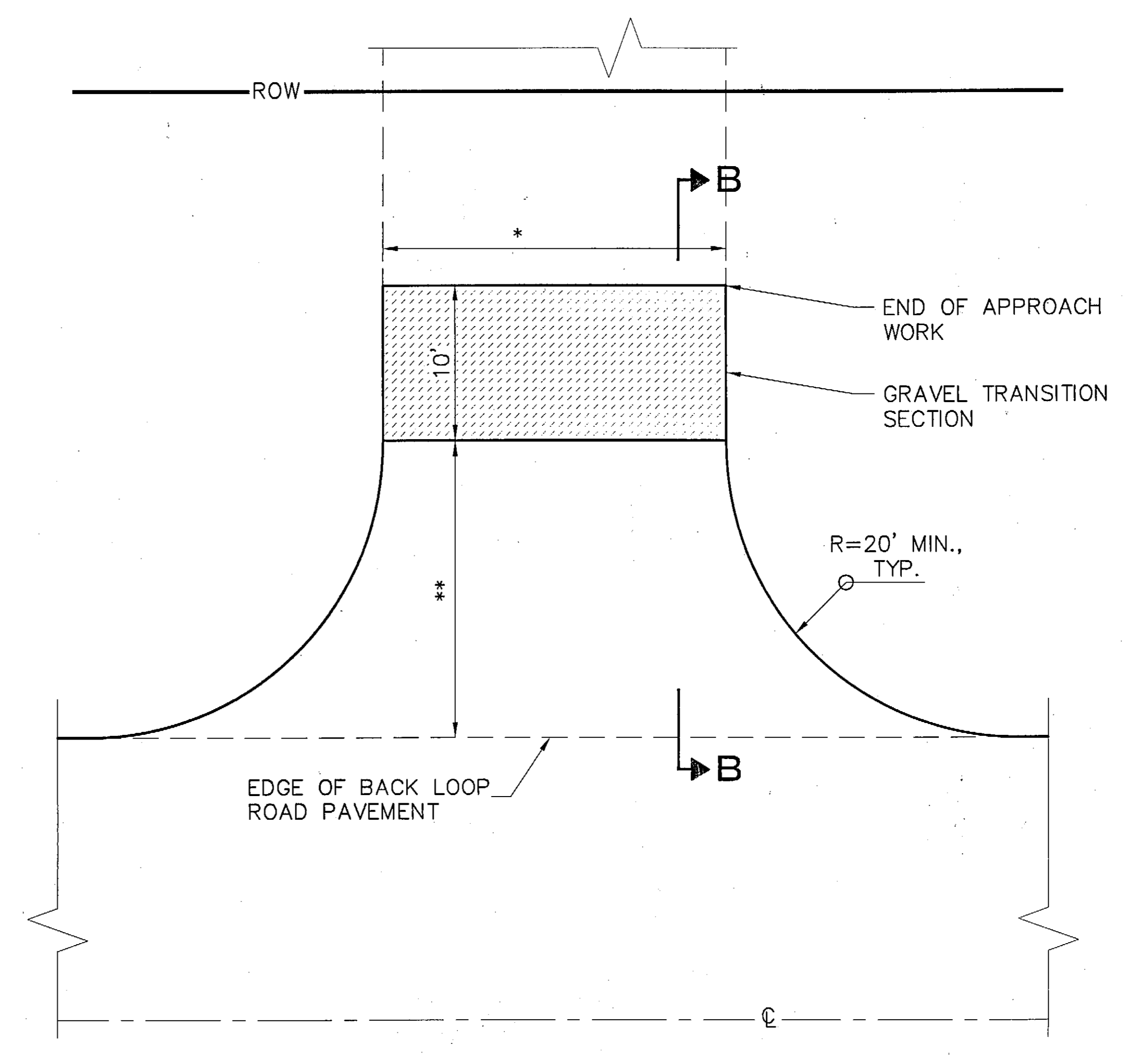


**APPROACH DETAIL A**

\* USE FOR EXISTING PAVED PUBLIC STREET OR PAVED DRIVEWAY APPROACH. MATCH EXISTING APPROACH WIDTH @ ROW LINE OR 24' MAXIMUM, WHICHEVER IS LESS.

**KEY**

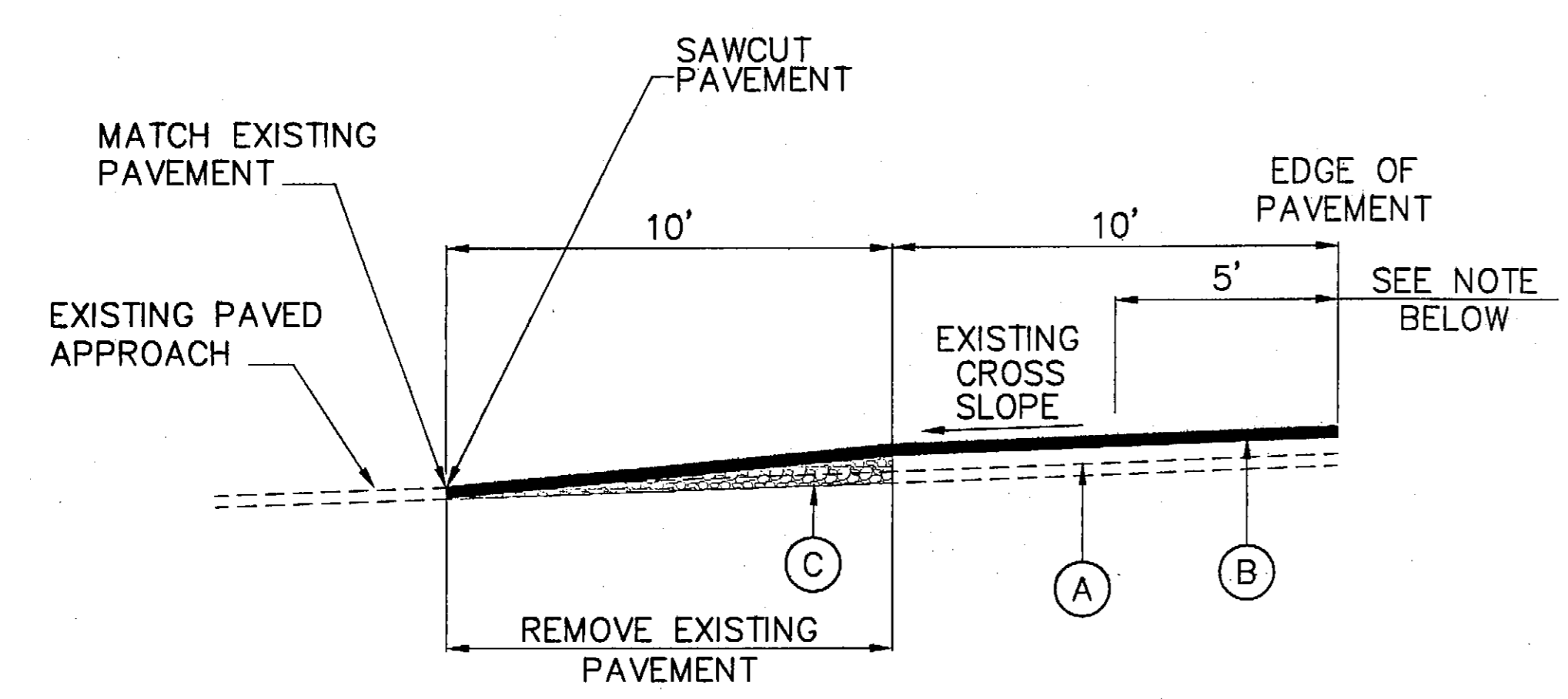
- (A) EXISTING 2" PAVEMENT
- (B) 2" A.C. PAVEMENT
- (C) AGGREGATE BASE COURSE



**APPROACH DETAIL B**

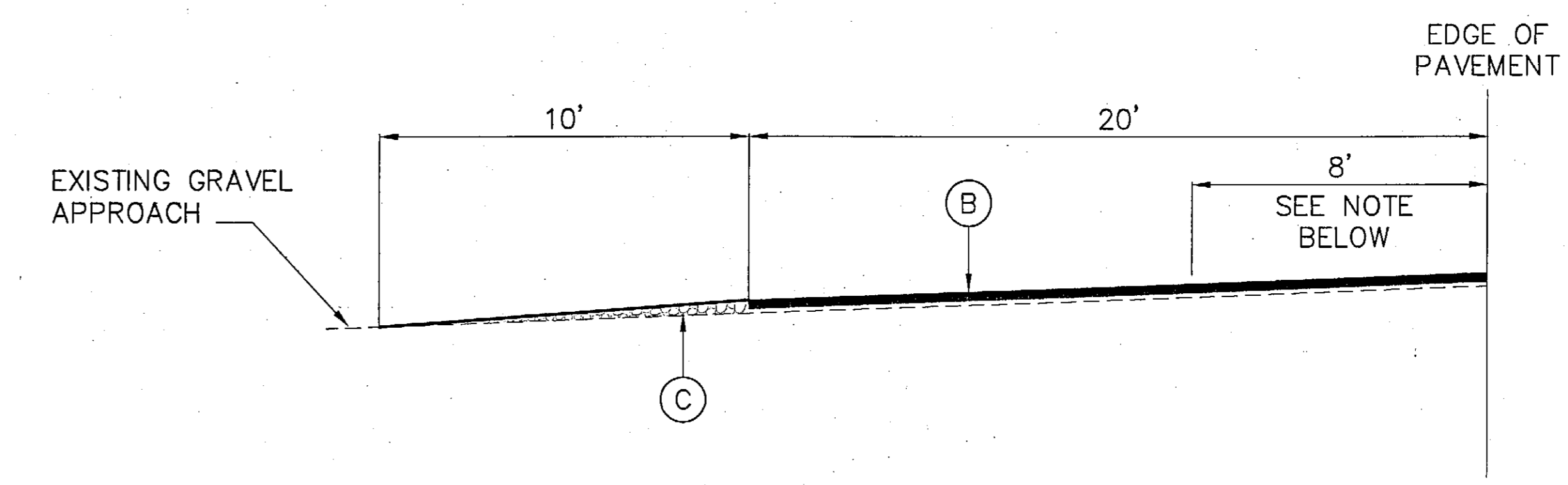
\* USE FOR EXISTING GRAVEL APPROACHES. MATCH EXISTING APPROACH WIDTH @ ROW LINE OR 24' MAXIMUM, WHICHEVER IS LESS.

\*\* 20' OR TO THE ROW LINE, WHICHEVER IS LESS.



**SECTION A-A**

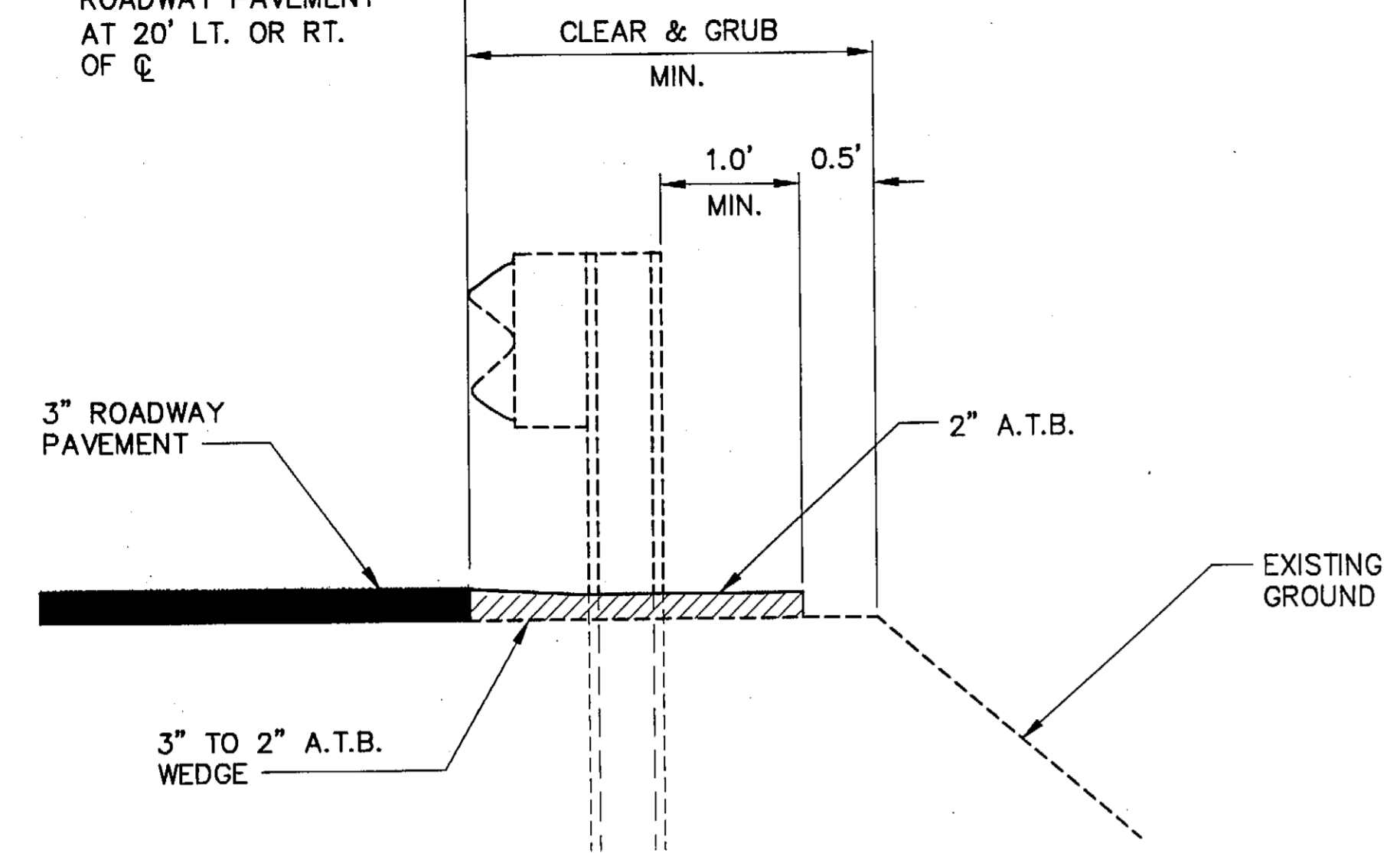
NOTE: TRANSITION APPROACH PAVEMENT THICKNESS FROM 3" TO 2" WITHIN 5 FEET.



**SECTION B-B**

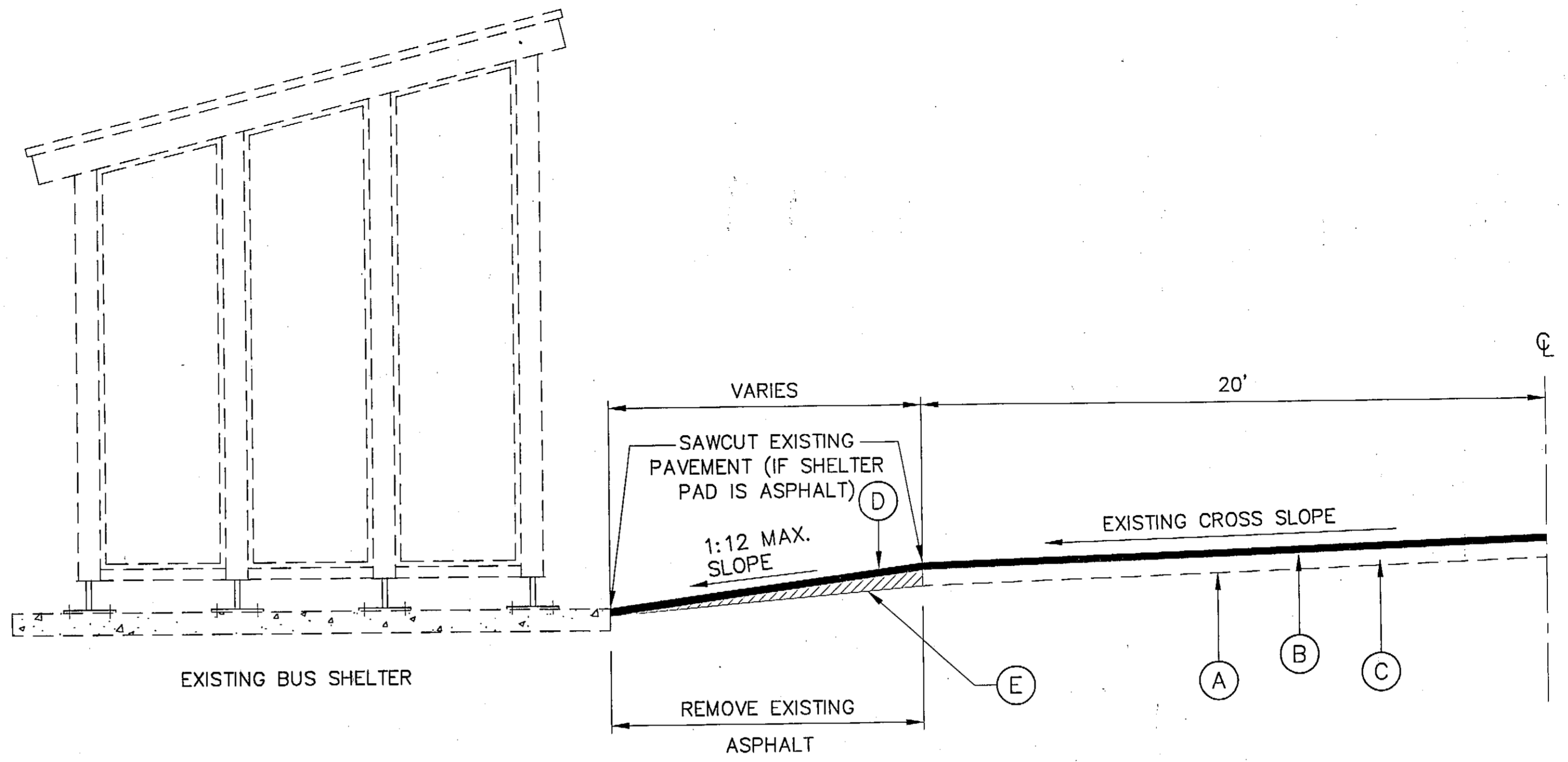
NOTE: TRANSITION APPROACH PAVEMENT THICKNESS FROM 3" TO 2" WITHIN 8 FEET.

PAY LIMITS FOR ROADWAY PAVEMENT AT 20' LT. OR RT. OF C



**Paving Under Guardrail\***

\* SEE SUMMARY TABLE ON SHEET C1 FOR STATIONS AND OFFSETS.

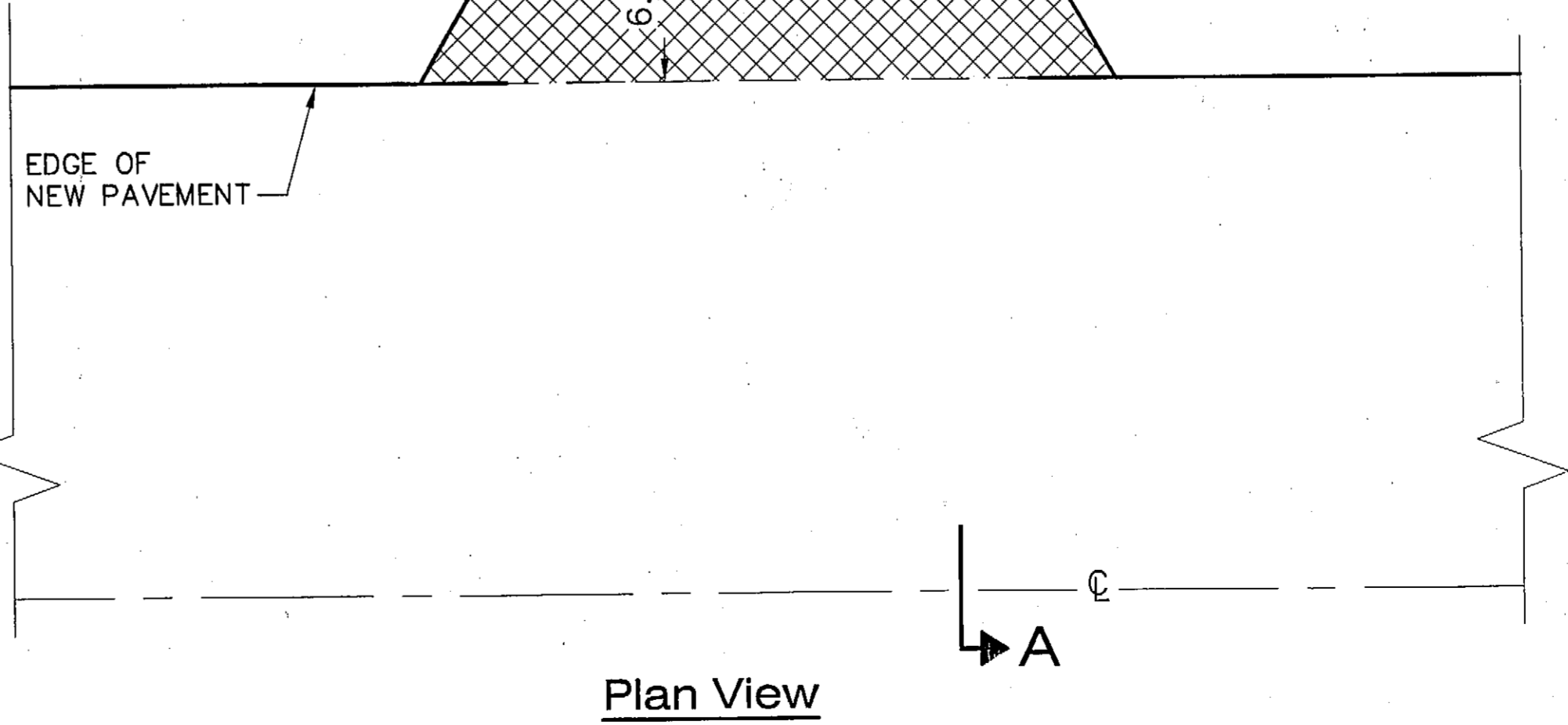
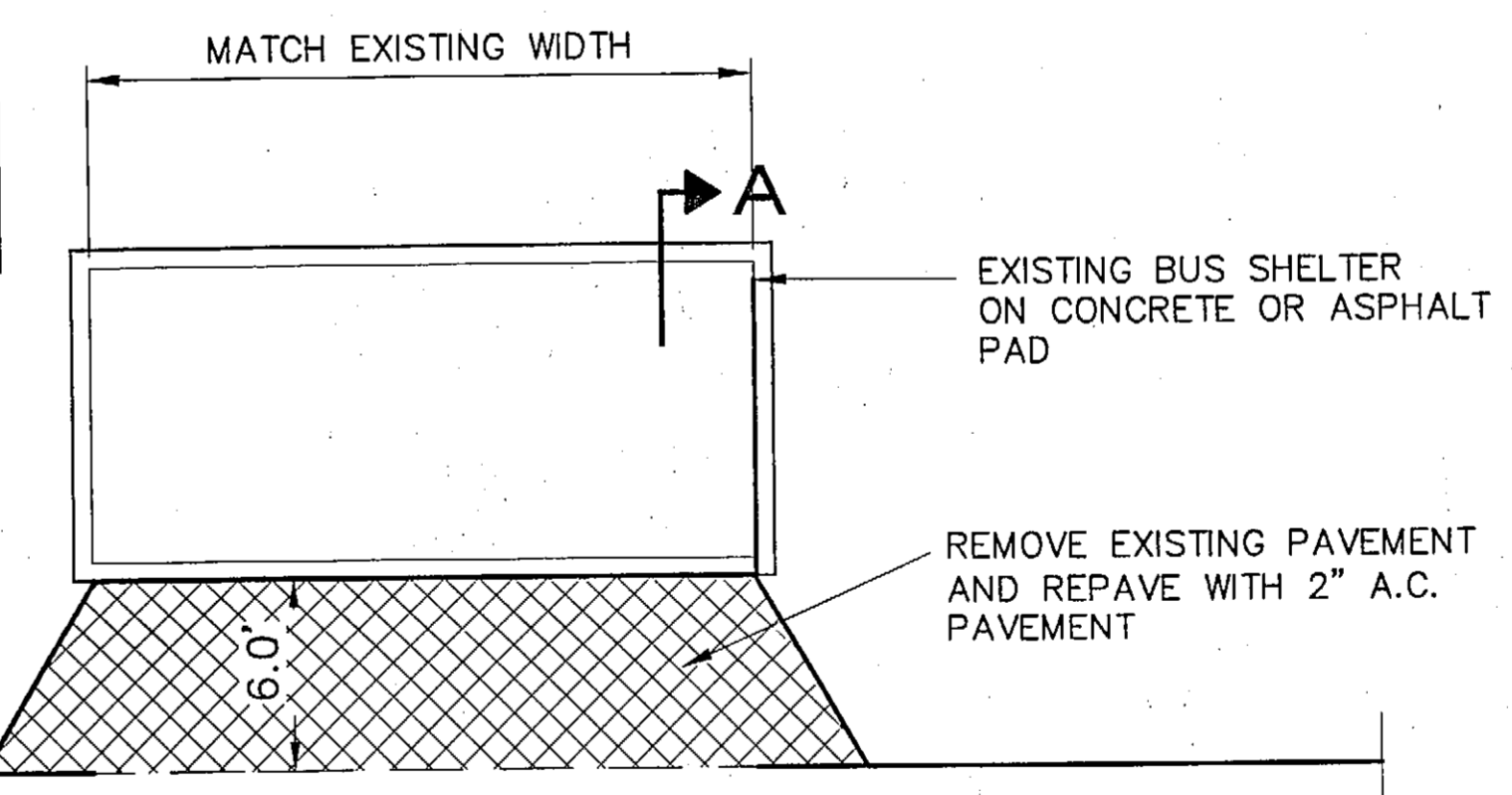


**Section A-A**

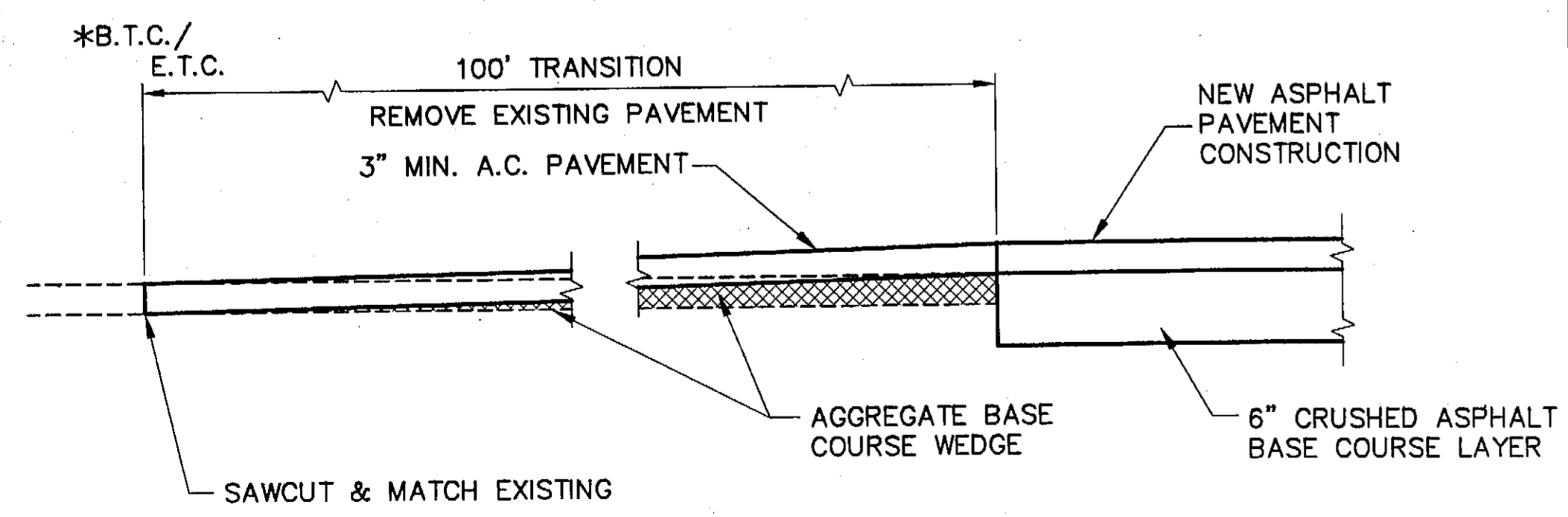
**BUS SHELTER PAVING DETAIL**

**Key**

- (A) TOP OF EXISTING PAVEMENT
- (B) 1 1/2" A.C. PAVEMENT
- (C) 1 1/2" ASPHALT TREATED BASE
- (D) 2" A.C. PAVEMENT
- (E) AGGREGATE BASE COURSE WEDGE



**Plan View**



**Pavement Match Detail**

\* B.T.C. = BEGIN TEMPORARY CONNECTION  
E.T.C. = END TEMPORARY CONNECTION

PATH: Q:\Jnu\68542\PlanSet\G4\_mdtd.dwg  
Thu, 20/Mar/03 01:30PM  
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)  
TAB: TYPICALS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION  
68542-IM-0966(23)

**Miscellaneous Details**

DESIGNED BY: J. OSBURN



CHECKED BY: L. GREGOVICH  
DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION

**Miscellaneous Details**

PROJECT DESIGNATION NUMBER	
68542-IM-0966(23)	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
G4	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION  
68542-IM-0966(23)

**B.C.T. Repair Details**

DESIGNED BY: J. OSBURN

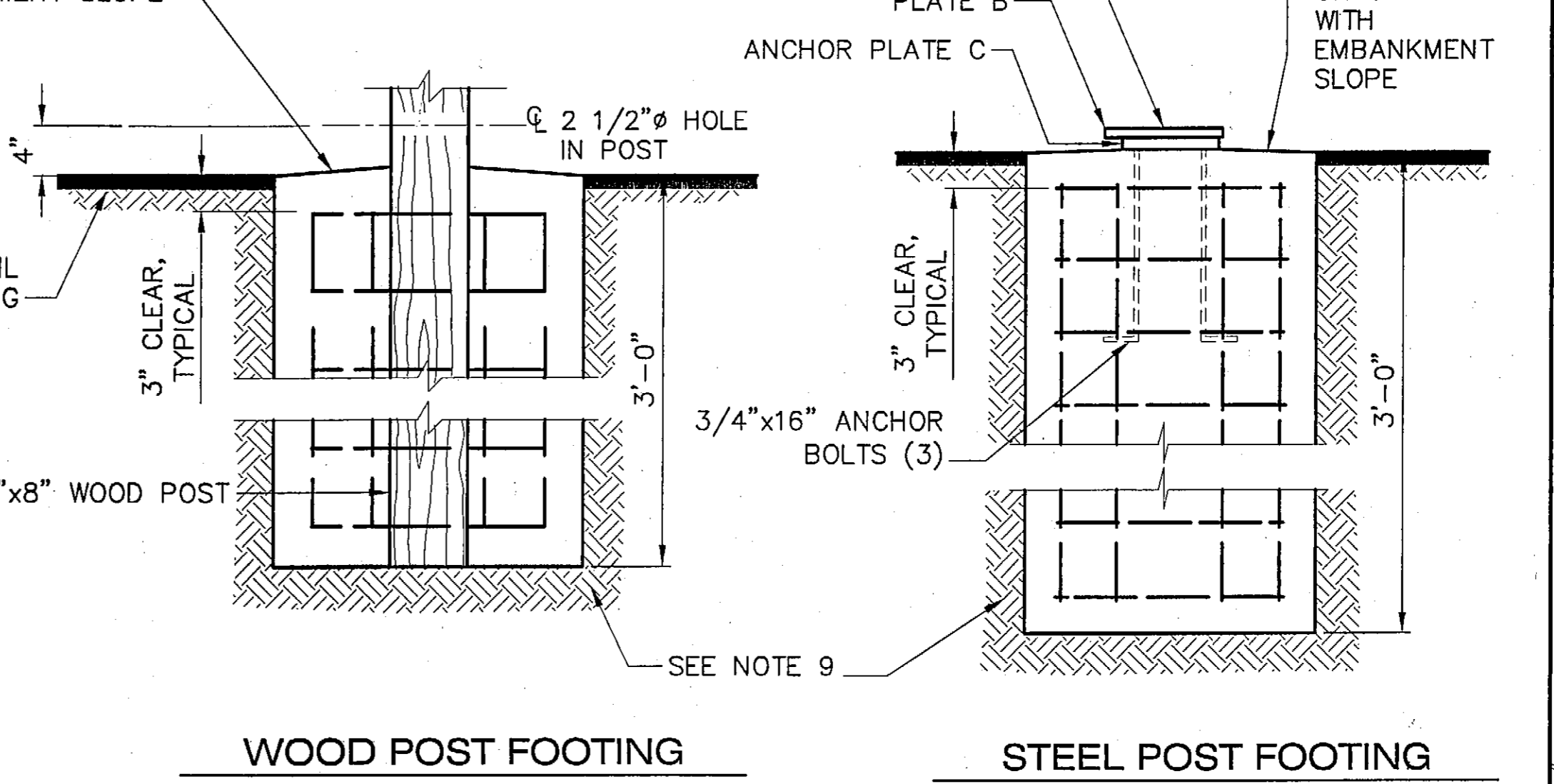
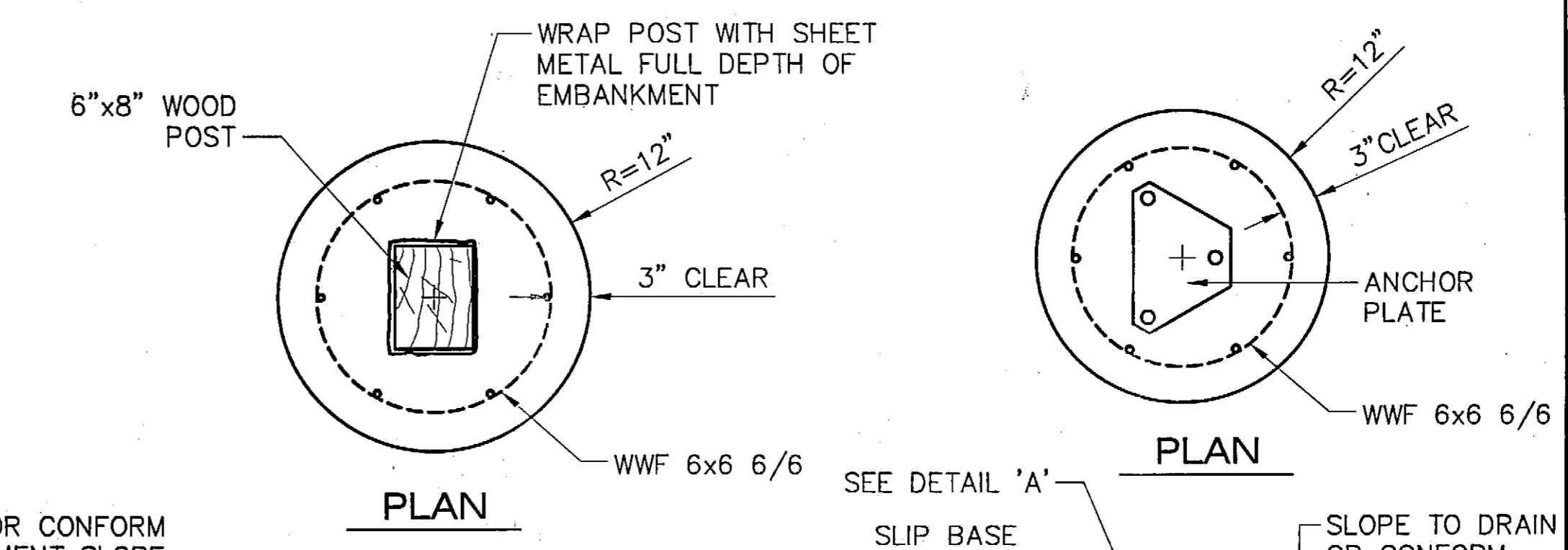
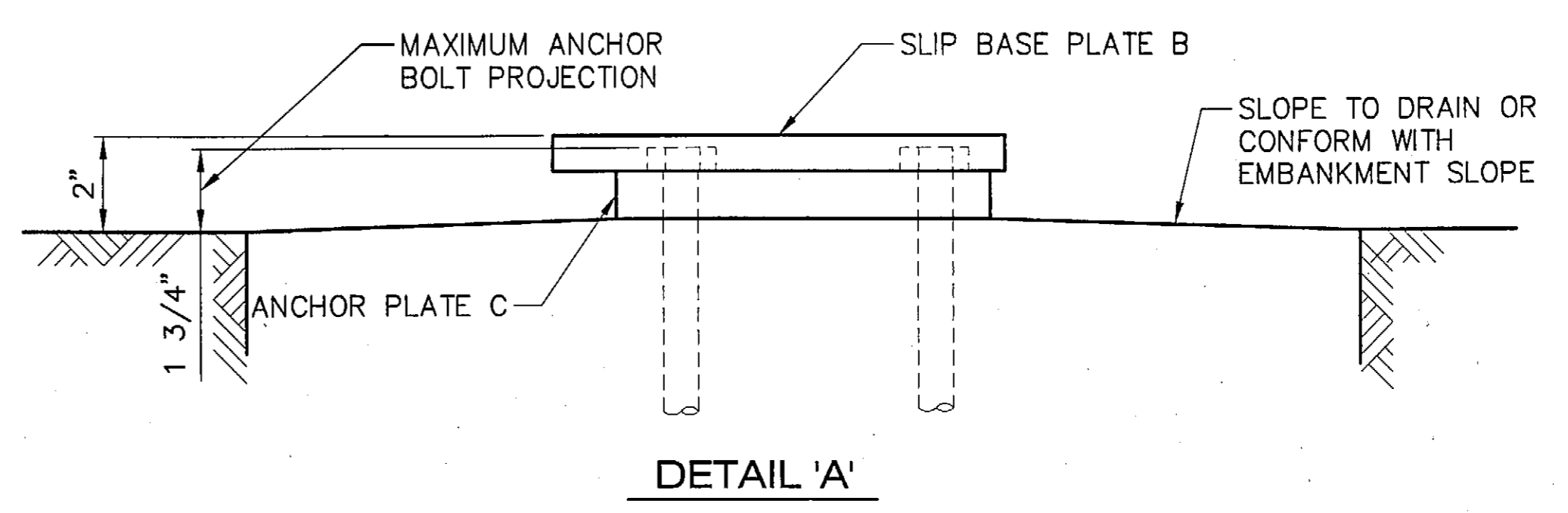
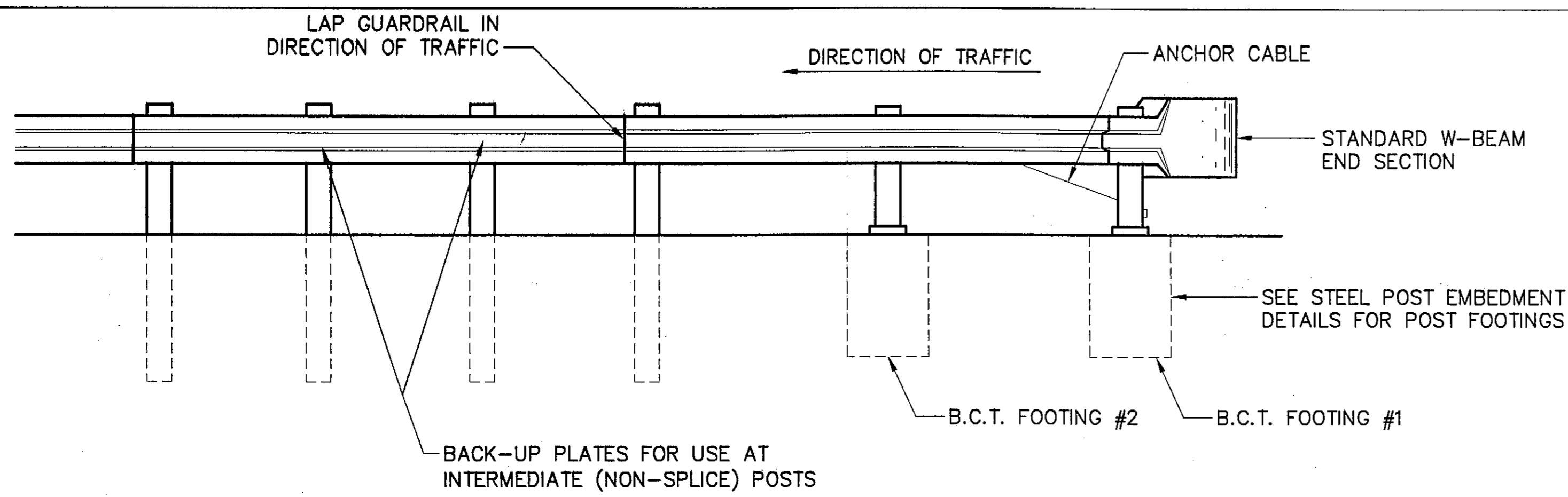


CHECKED BY: L. GREGOVICH  
DRAWN BY: OSBURN/BENNETT  
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

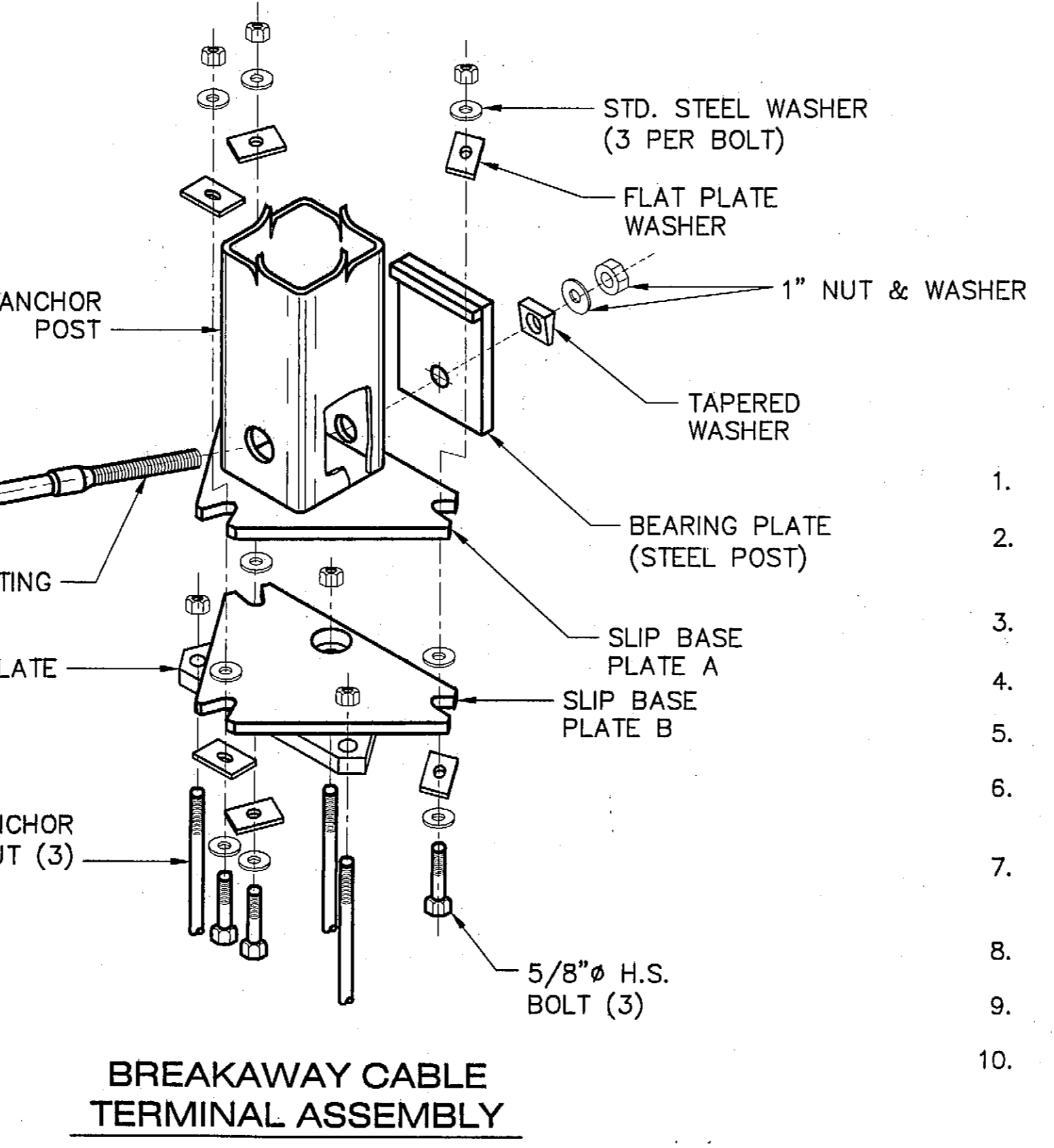
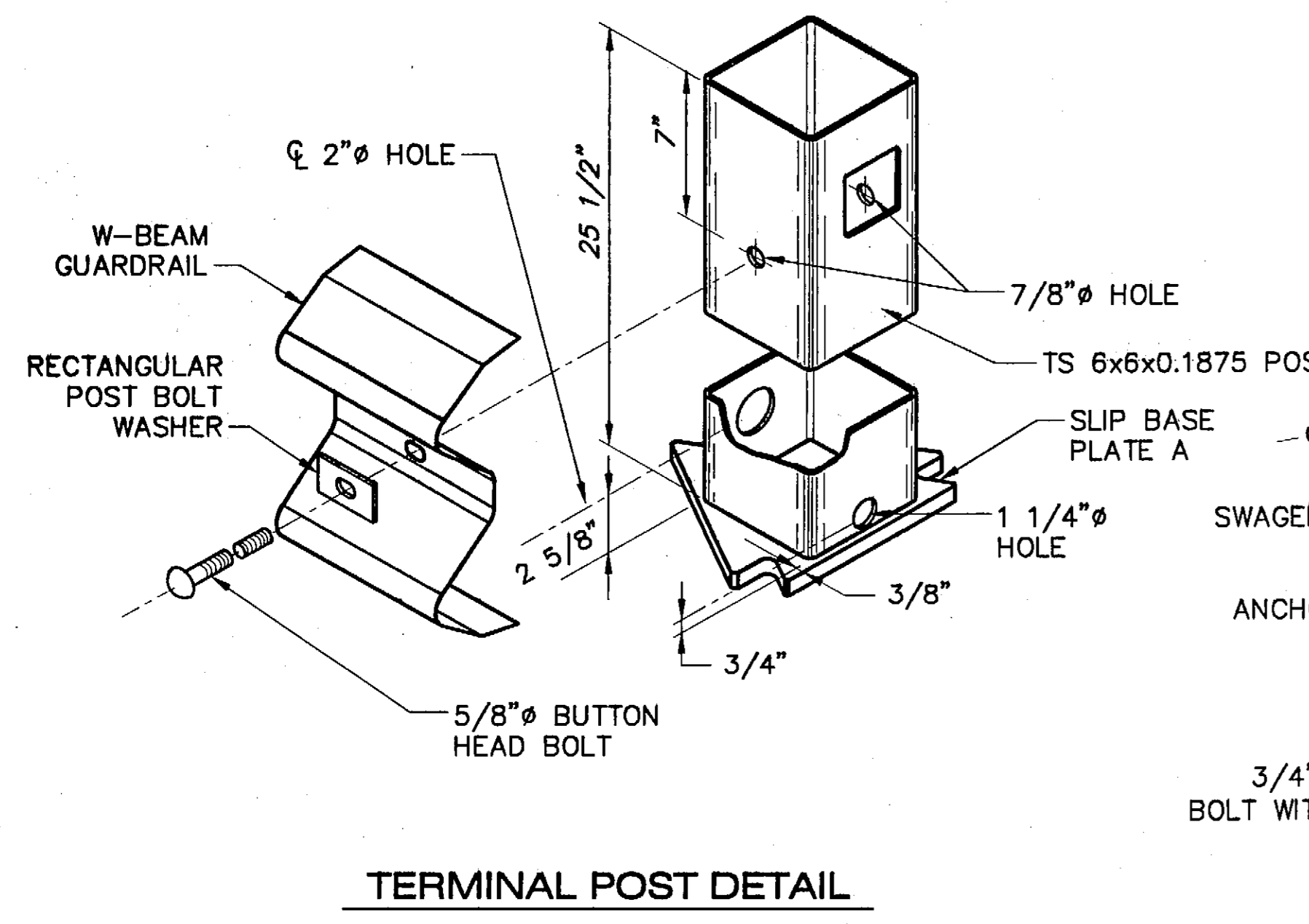
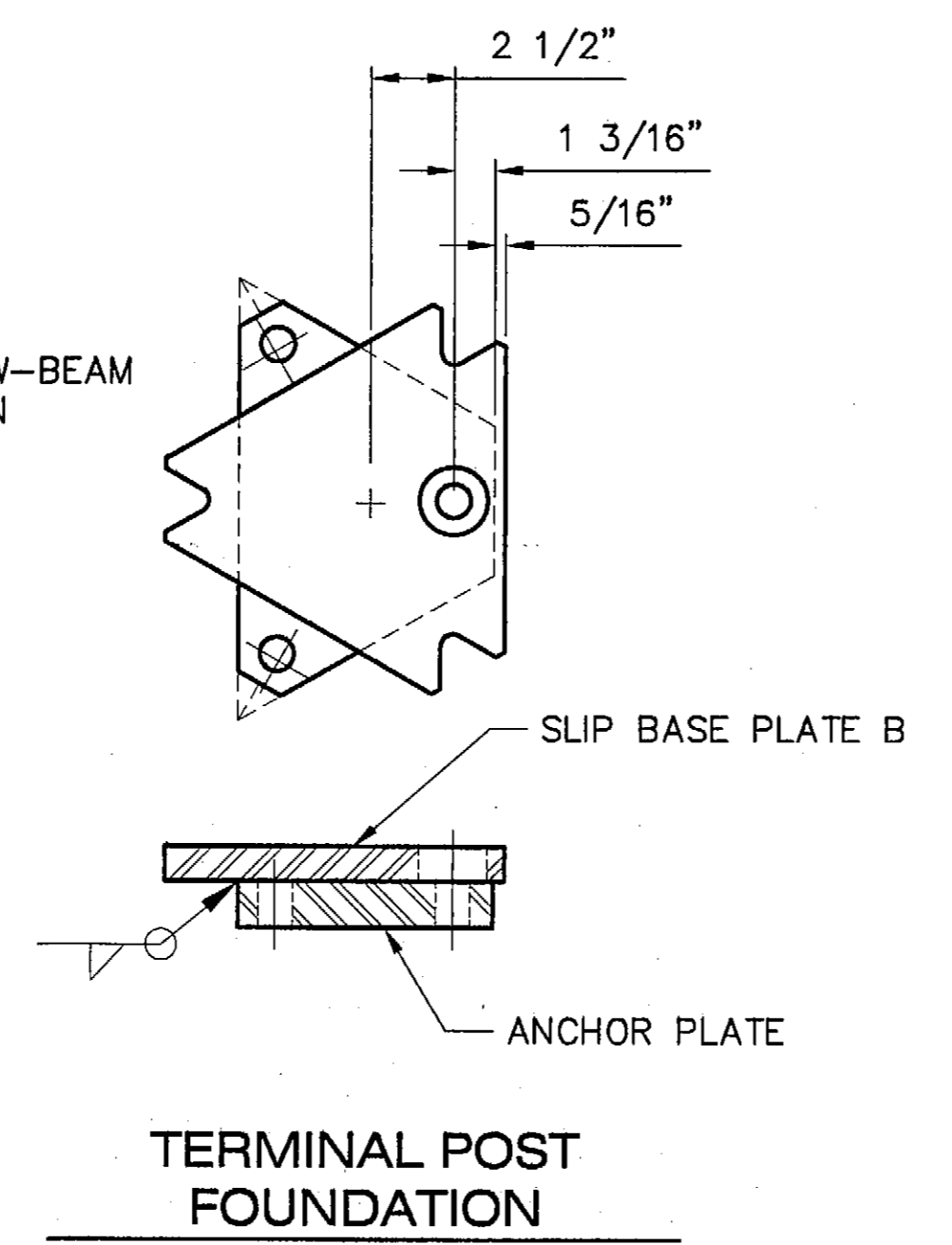
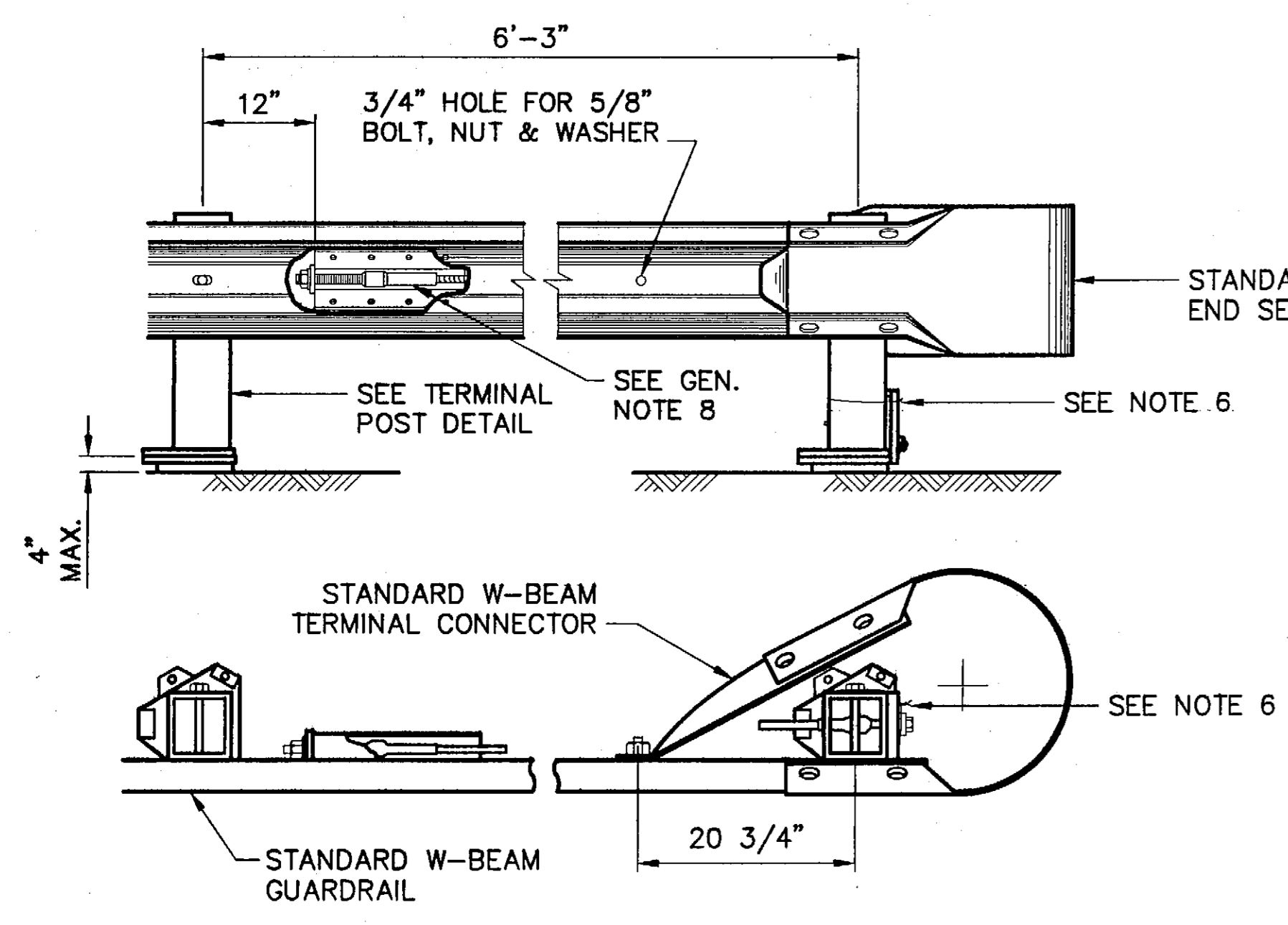
JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION

**B.C.T. Repair Details**

PROJECT DESIGNATION NUMBER	
68542-IM-0966(23)	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
G5	29



- B.C.T. REPAIR NOTES:**
1. CONCRETE FOOTING MAY BE POURED OR PRECAST.
  2. ALL BARRIER HARDWARE AS SHOWN IN ARTBA "A GUIDE TO STANDARDIZED HIGHWAY BARRIER RAIL HARDWARE" IS ACCEPTABLE.
  3. TORQUE SLIP-PLATE BOLTS TO 1950 INCH POUNDS.
  4. W-BEAMS MAY BE A 13'-6 1/2" OR A 25'-0 1/2" SECTION.
  5. THE SECOND B.C.T. STEEL POST DOES NOT REQUIRE HOLES TO ACCOMODATE ANCHOR CABLE.
  6. A SINGLE WRAP OF 14 GAGE GALVANIZED WIRE SHALL BE PLACED AROUND THE END POST TO ENSURE THAT THE BEARING PLATE REMAINS IN POSITION.
  7. RECTANGULAR POST BOLT WASHER SHALL BE INSTALLED ON THE FIRST AND LAST TERMINAL POSTS ONLY.
  8. SEE STANDARD DRAWINGS G-00.01 "STANDARD GUARDRAIL HARDWARE" FOR HARDWARE DETAILS.
  9. COMPACT MATERIAL AROUND GUARDRAIL POST FOOTINGS TO SATISFACTION OF ENGINEER.
  10. B.C.T. = BREAKAWAY CABLE TERMINAL



ADDENDUM NUMBER		
ATTACHMENT NUMBER		

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

Bridge Work Plans

DESIGNED BY: J. OSBURN



CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

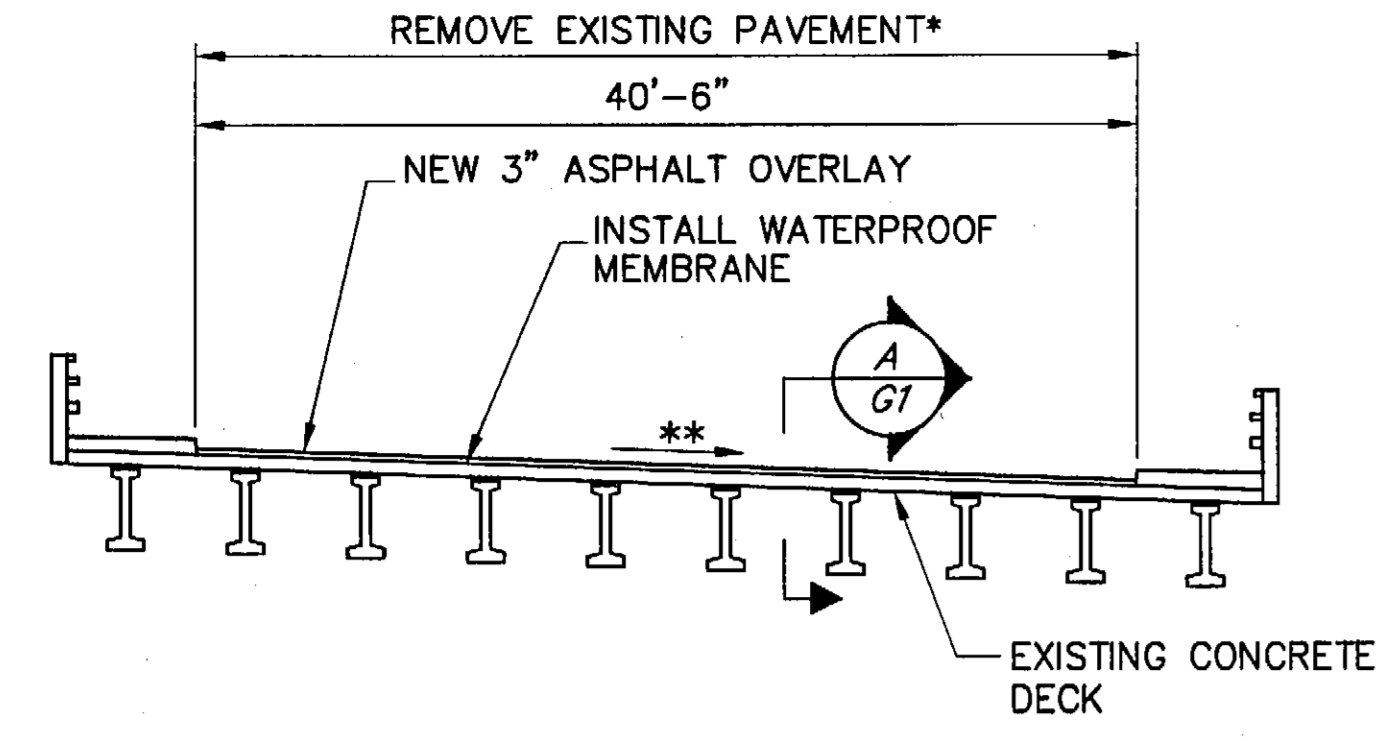
JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

Bridge Work Plans

PROJECT DESIGNATION NUMBER  
**68542~IM-0966(23)**

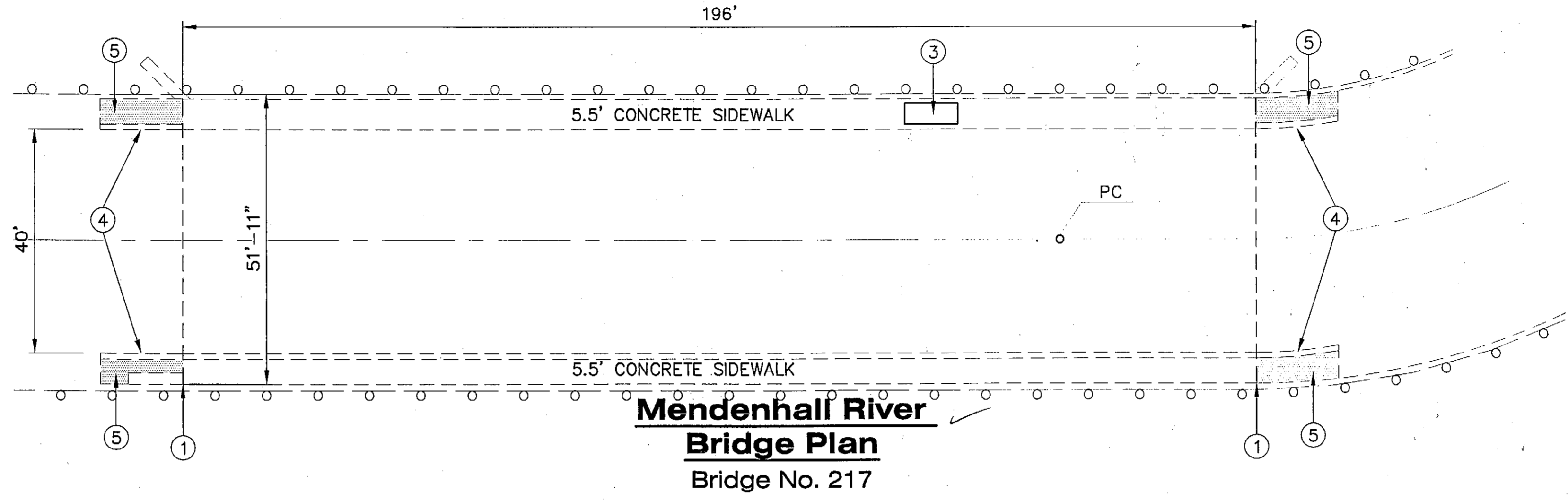
STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
H1	29

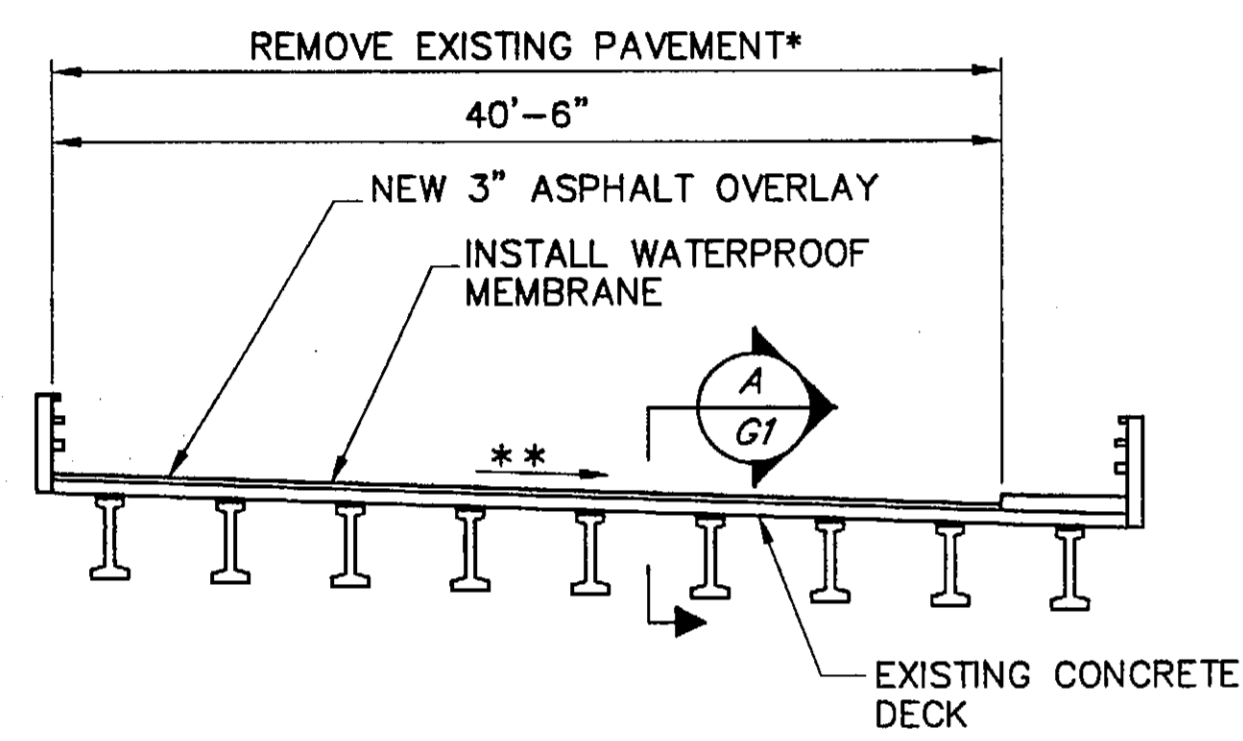


\* MILLING OF EXISTING PAVEMENT ON BRIDGES WILL NOT BE ALLOWED.  
 \*\* SLOPE VARIES 2% TO 5%

Mendenhall River  
 Bridge Section

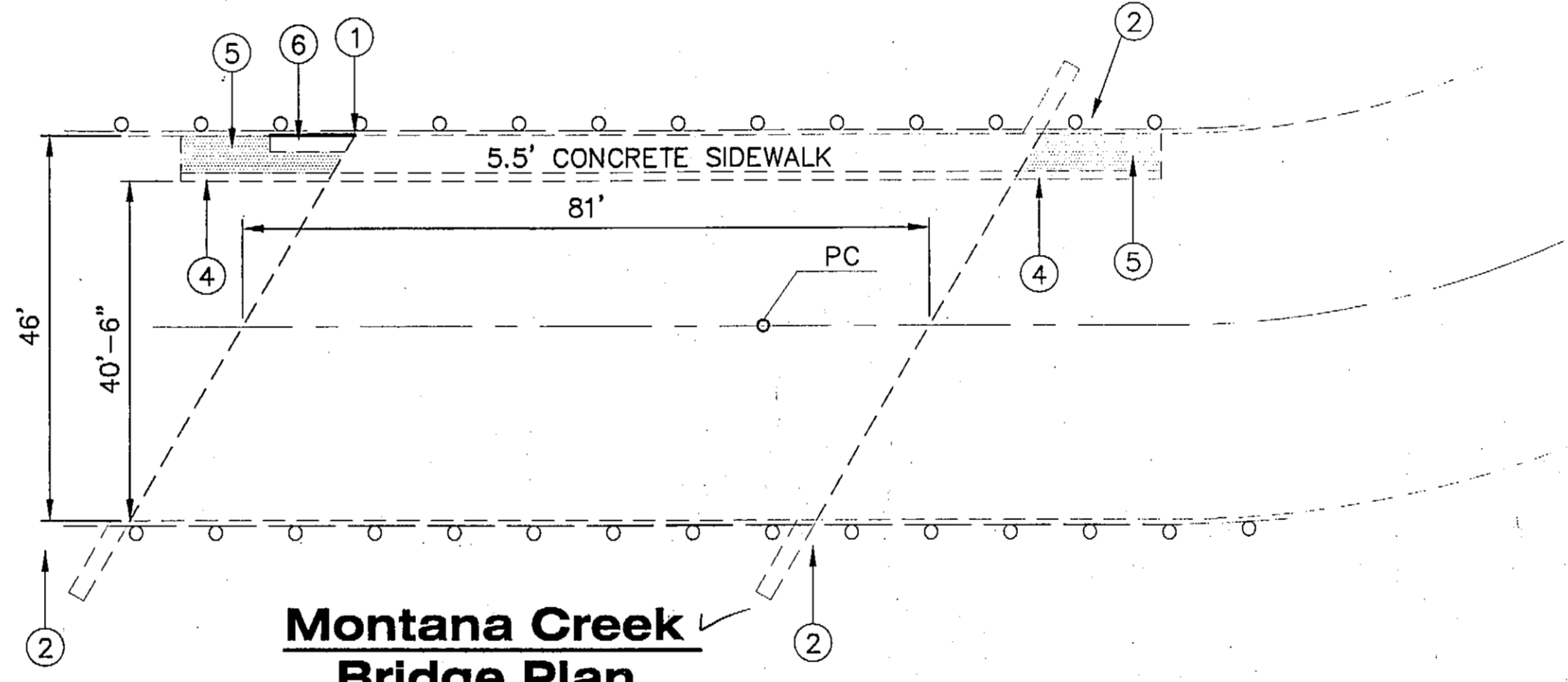


Mendenhall River  
 Bridge Plan  
 Bridge No. 217

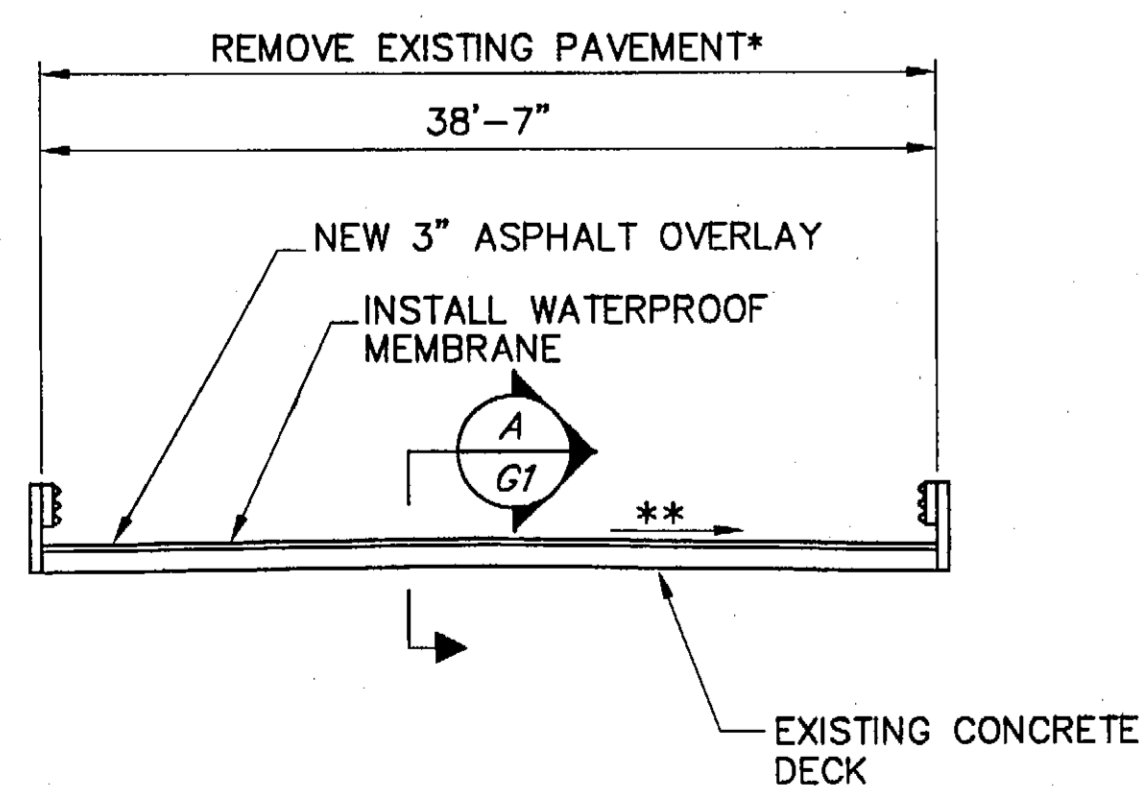


\* MILLING OF EXISTING PAVEMENT ON BRIDGES WILL NOT BE ALLOWED.  
 \*\* SLOPE VARIES 2% TO 5%

Montana Creek  
 Bridge Section

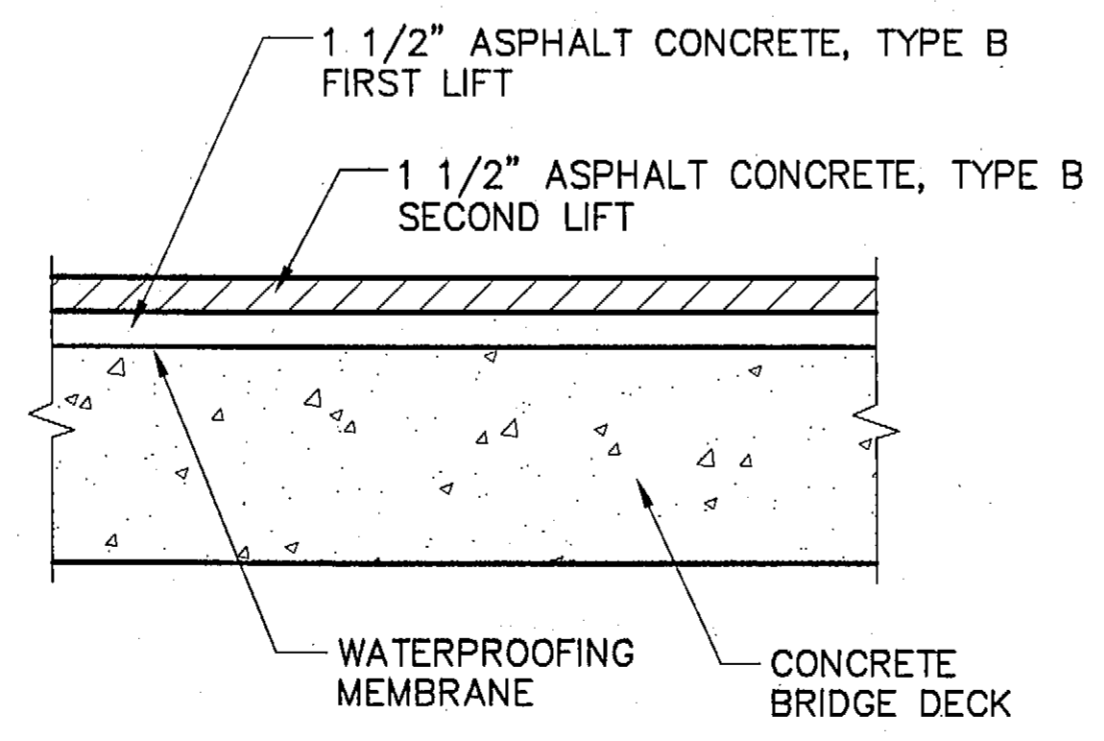


Montana Creek  
 Bridge Plan  
 Bridge No. 264



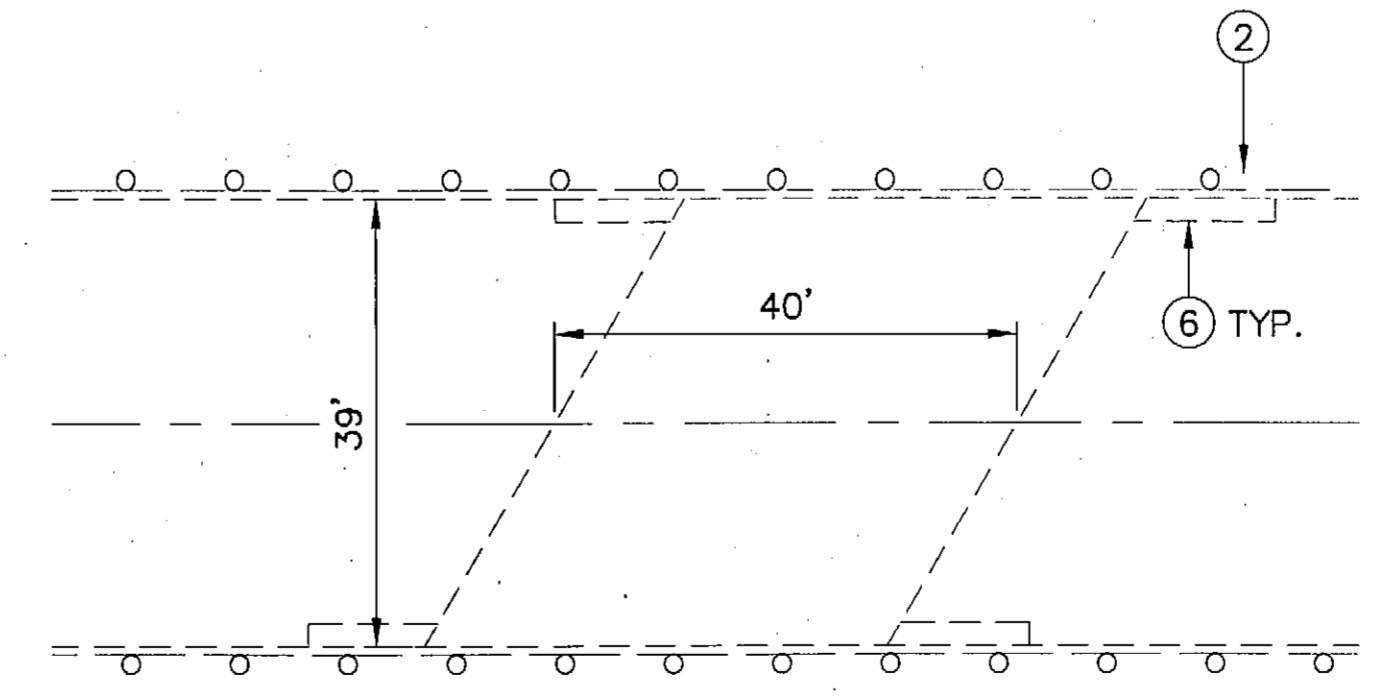
\* MILLING OF EXISTING PAVEMENT ON BRIDGES WILL NOT BE ALLOWED.  
 \*\* SLOPE 1.5% TYPICAL

Lake Creek Bridge  
 Section



Section A

**NOTE:** ATB IS NOT TO BE USED ON BRIDGES.

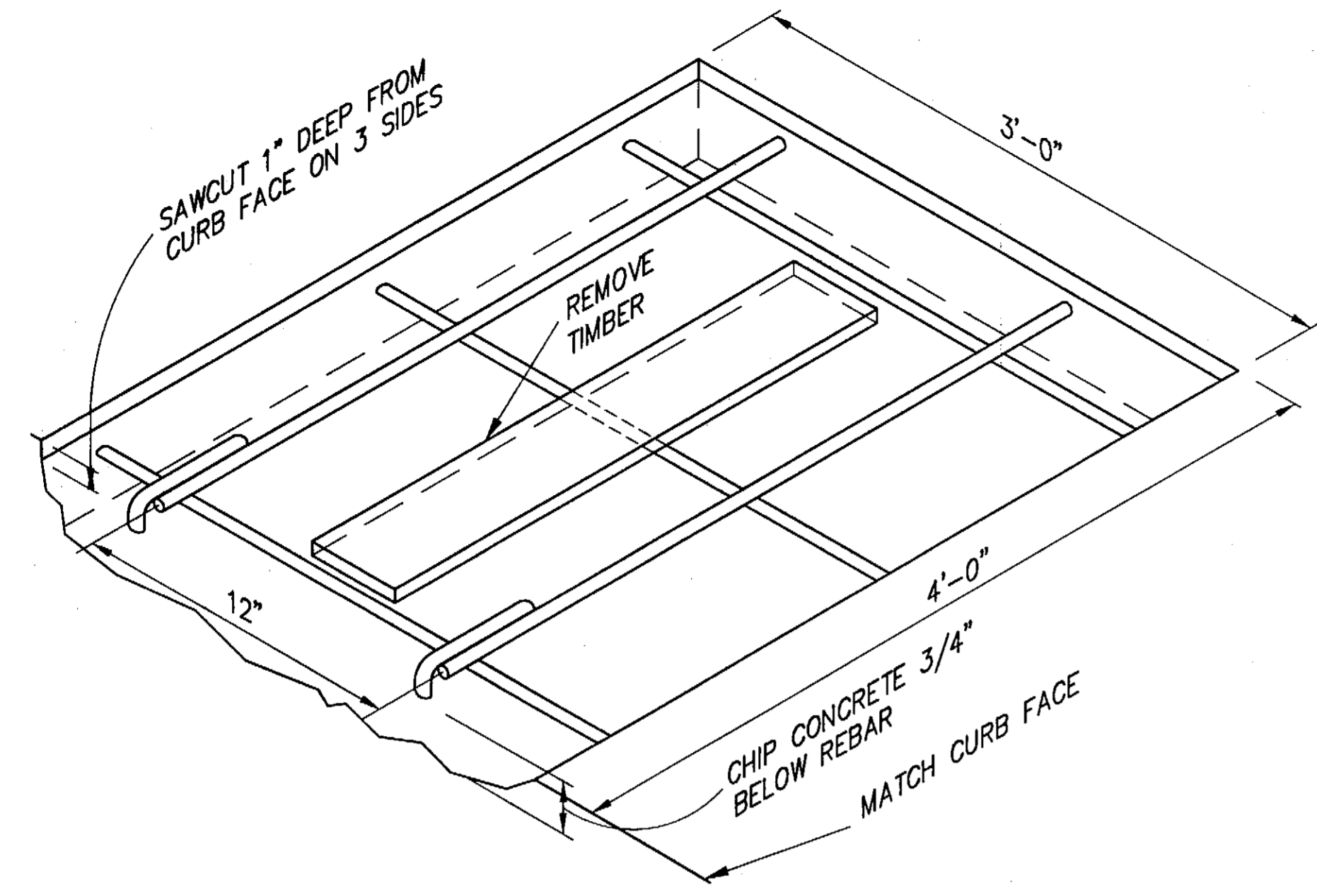


Lake Creek Bridge  
 Plan  
 Bridge No. 873

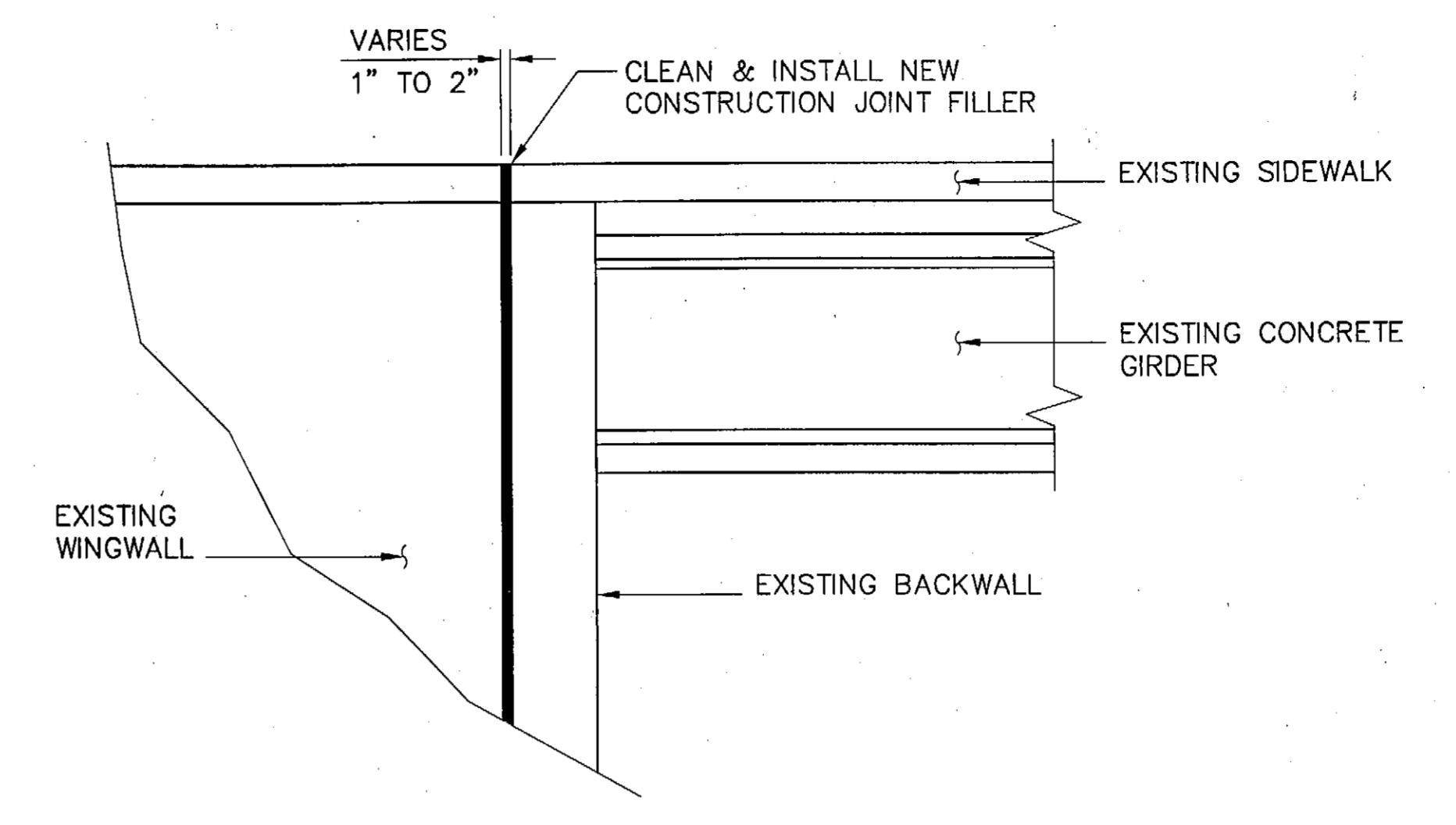
\* SEE SHEET H2 FOR RIPRAP SLOPE FILL DETAIL.

- KEY:**
- ① JOINT FILLER
  - ② SLOPE FILL - RIPRAP CLASS I \*
  - ③ CONCRETE REPAIR (SEE CONCRETE SIDEWALK REPAIR DETAIL ON SHEET G2.)
  - ④ EXISTING TAPERED CONCRETE CURB (TO REMAIN)
  - ⑤ REMOVE AND REPLACE EXISTING ASPHALT SIDEWALK
  - ⑥ WING WALL

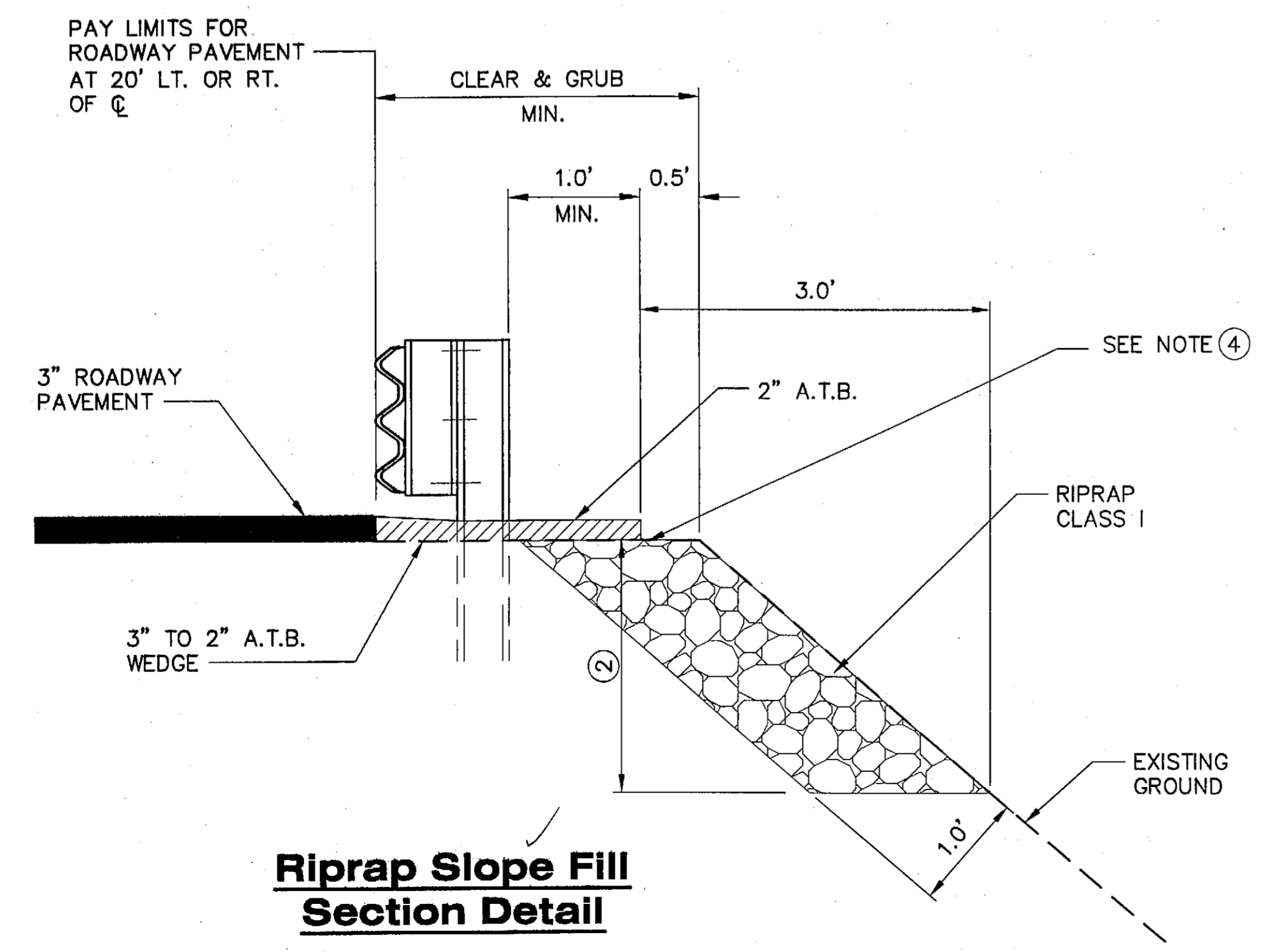
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**Concrete Sidewalk Repair Detail**



**Typical Joint Filler Detail**



**Riprap Slope Fill Section Detail**

**Notes:**

- ① PLACE RIPRAP 5'-12' BETWEEN END OF BRIDGE AND END OF THREE BEAM GUARDRAIL, AS NEEDED.
- ② DEPTH OF BENCH FOR RIPRAP WILL VARY AS DIRECTED BY ENGINEER.
- ③ THE ADOT&PF ENVIRONMENTAL SECTION SHALL BE CONTACTED AT LEAST 1 WEEK PRIOR TO RIPRAP SLOPE FILL PLACEMENT. AN ENVIRONMENTAL SPECIALIST WILL DELINEATE THE ORDINARY HIGH WATER (OHW) ELEVATION AT EACH FILL LOCATION. NO FILL SHALL BE PLACED BELOW OHW.
- ④ PROVIDE A FIRM, FLAT SURFACE OVER RIPRAP BY FILLING VOIDS WITH GRANULAR MATERIAL PRIOR TO PAVING.

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

**Bridge Work Details & Miscellaneous Details**

DESIGNED BY: J. OSBURN



CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

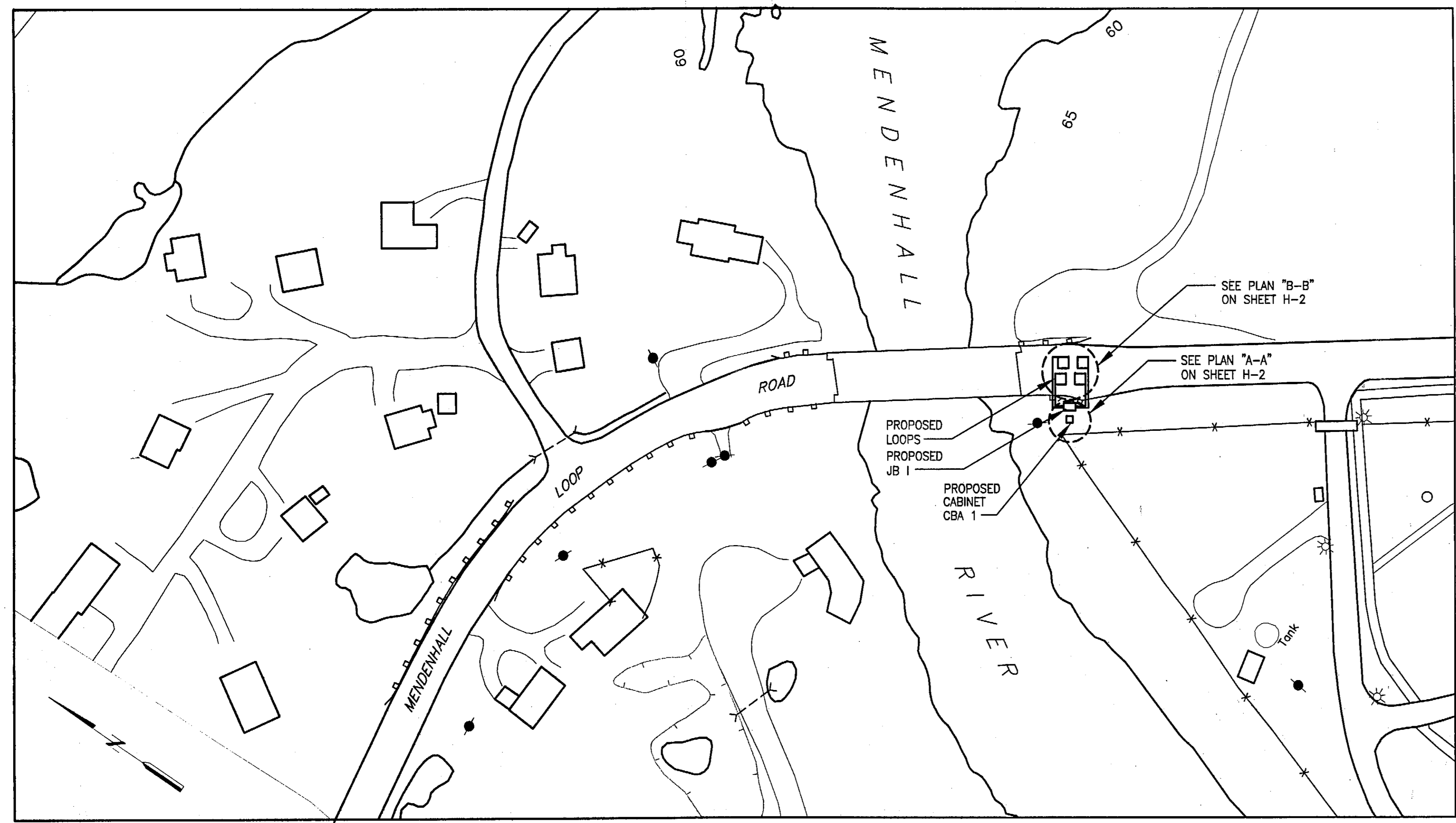
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

**Miscellaneous Details**

PROJECT DESIGNATION NUMBER  
 68542~IM-0966(23)

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
H2	29



**SITE PLAN**  
N.T.S.

**REFERENCE SPECIFICATIONS**  
 ALL WIRING IN THIS SECTION SHALL BE CONSTRUCTED PER SPECIFICATION SECTION 660 SIGNALS AND LIGHTING, EXCEPT WHERE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS. IN PARTICULAR, ALL CONSTRUCTION SHALL CONFORM TO SPECIFICATION SECTIONS 660-2.05 CONDUIT, 660-2.06 JUNCTION BOXES, 660-2.08 CONDUCTORS, 660-2.09(A) WIRING, 660-2.10 BONDING AND GROUNDING, AND 660-2.13 FIELD TESTS, EXCEPT AS MODIFIED BY SECTION 669 PERMANENT TRAFFIC RECORDERS.

**LABELS**  
 ALL CABLES SHALL BE LABELED AT BOTH ENDS AND AT EVERY JUNCTION BOX THROUGH WHICH THE CABLES PASS, PER SPECIFICATION SECTION 660-209(a)  
 ALL WIRE PAIRS SHALL BE LABELED AT THE TERMINAL BLOCK AND AT ANY LOOSE ENDS.  
 THE CONVENTIONS BELOW SHALL APPLY TO DESIGNATING AND LABELING CABLES AND WIRE PAIRS:  
 LANES: TRAFFIC LANES AND THEIR RESPECTIVE LOOPS AND SENSORS SHALL BE LABELED FROM THE OUTSIDE EDGE OF THE ROAD TOWARD THE CENTER AS FOLLOWS:  
  
 TERMINAL BLOCKS: WIRES FROM SENSORS PLACED IN LANES WHICH ARE CLOSEST TO THE CONTROL BOX SHALL BE PLACED AT THE LEFT OR AT THE TOP OF THE TERMINAL BLOCK, DEPENDING ON ORIENTATION.  
 WIRES FOR INDUCTIVE LOOPS, SENSORS AND RESERVES SHALL BE LABELED AS FOLLOWS:  
 WHERE: PnDLc  
 P IS THE PREFIX:  
 v = TRAFFIC VOLUME LOOP  
 n NUMBER SUFFIX FOR MULTIPLE LOOPS  
 D DIRECTION (N, S, E, W)  
 Lc LANE DESIGNATION (A, B, C, D)  
 (X) CONDUIT REFERENCE NUMBER

**GENERAL NOTES:**

1. INSTALLATION OF EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT NEC, ALASKA DOT/PF STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.
2. EVERY EFFORT HAS BEEN MADE TO MAKE THE INFORMATION CONTAINED IN THESE DOCUMENTS COMPLETE AND ACCURATE, HOWEVER THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
3. USE ONLY GRC CONDUIT.
4. ALL CONSTRUCTION SHALL BE WITHIN STATE RIGHT-OF-WAY.
5. ALL EXCAVATION SHALL BE WASTE AND HAULED TO APPROVED WASTE SITE PER THE ENGINEERS APPROVAL OF WHICH PAYMENT WILL BE INCIDENTAL TO ITEM 669(2).

ATR ASSEMBLIES SCHEDULE						
PAY ITEM	STATION	CABINET OFFSET	CABINET ASSEMBLY STYLE	INDUCTIVE LOOPS	LOAD CENTER & TYPE	ELECTRICAL AND TELEPHONE SERVICE
669(2)	AS SHOWN SITE PLANS	57' MENDENHALL LOOP ROAD	CBA1 24" CABINET	4	NONE	NO

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
669(2)	AUTOMATED TRAFFIC RECORDER	LUMP SUM	ALL REQ'D.

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)  
**Automated Traffic Recorder Plan**

DESIGNED BY: P. Jones

CHECKED BY: M. Lukshin  
 DRAWN BY: D. Stevens

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

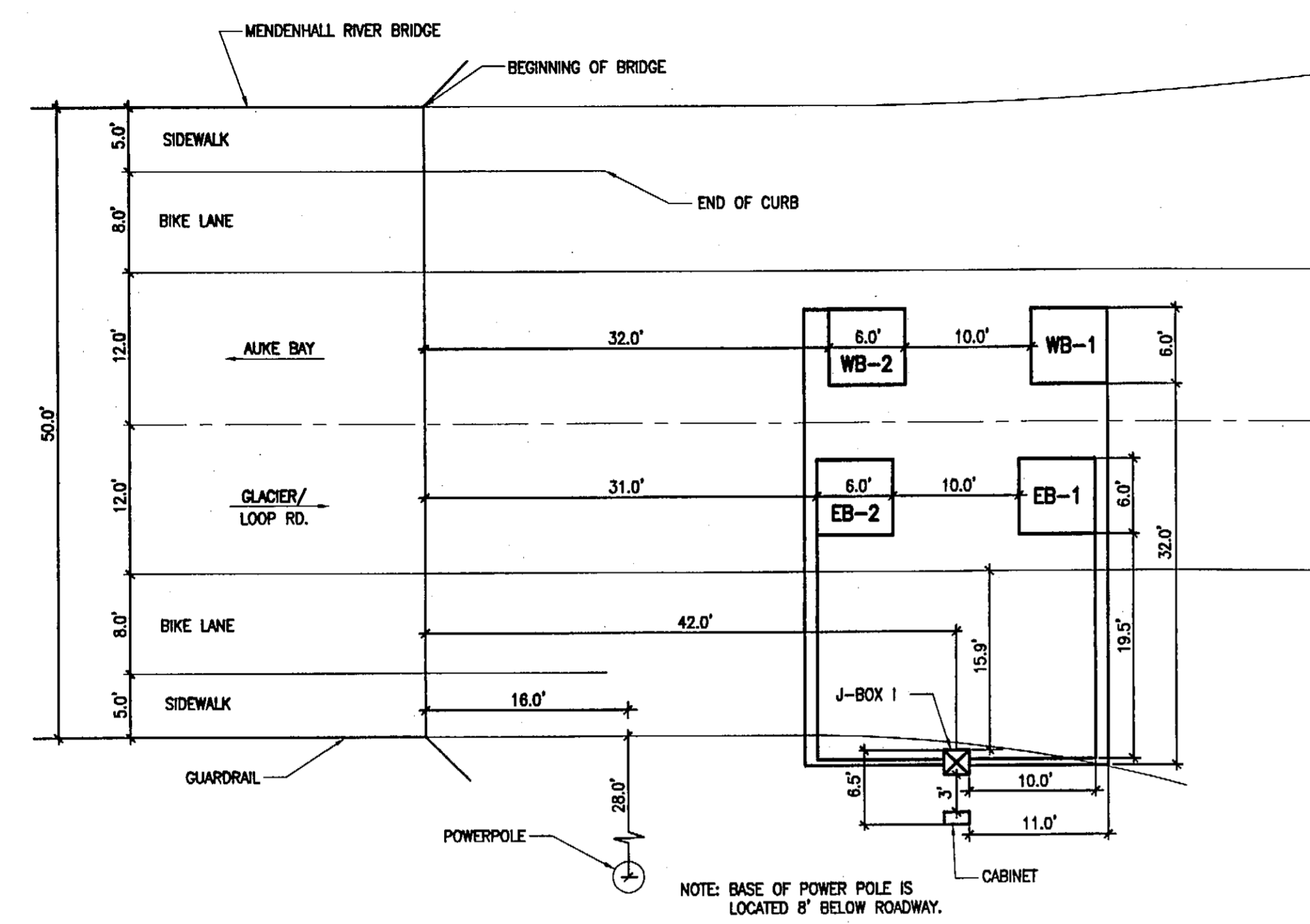
JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

**Automated Traffic Recorder Plan**

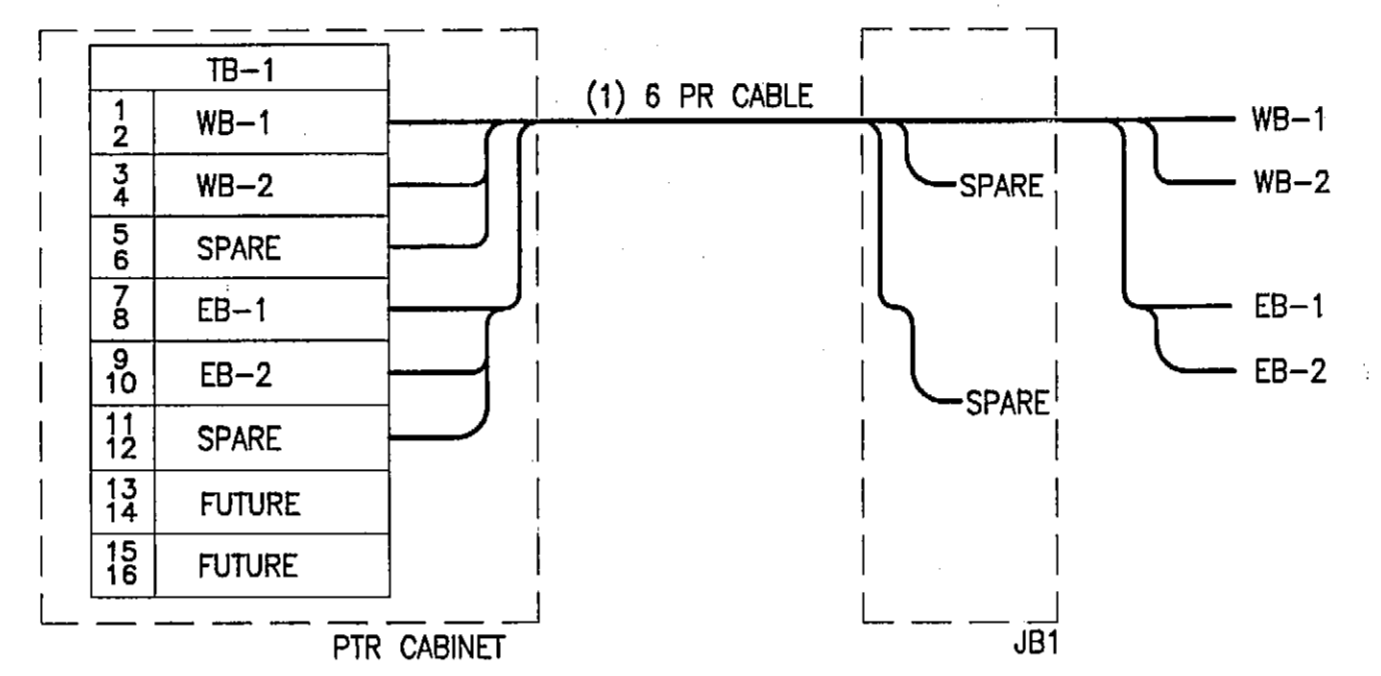
PROJECT DESIGNATION NUMBER  
**68542~IM-0966(23)**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
11	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN "B-B"  
TRAFFIC COUNTER TYPICAL



WIRING SCHEMATIC DETAIL

SHEET NOTES

1. SEE TYPICAL SECTIONS FOR DIMENSIONS.
2. INDUCTION LOOPS TO BE CENTERED IN TRAFFIC LANES.
3. SEE SUMMARY SHEET SCHEDULE.
4. SINGLE LINES ON WIRING DIAGRAM REPRESENT 3 PAIR CONDUCTOR CABLES, DASHED LINES REPRESENT COAX CABLES.
5. DIMENSIONS ARE TYPICAL FOR ALL LANES.

CONDUIT TYPE	CONDUIT SIZE	FROM	TO	CABLE QTY.	CABLE TYPE
RMC	2"	CBA1	JB1	1	6PR CABLE
PVC	1"	JB1	EB-1	1	1PR No.12
PVC	1"	JB1	EB-2	1	1PR No.12
PVC	1"	JB1	WB-1	1	1PR No.12
PVC	1"	JB1	WB-2	1	1PR No.12

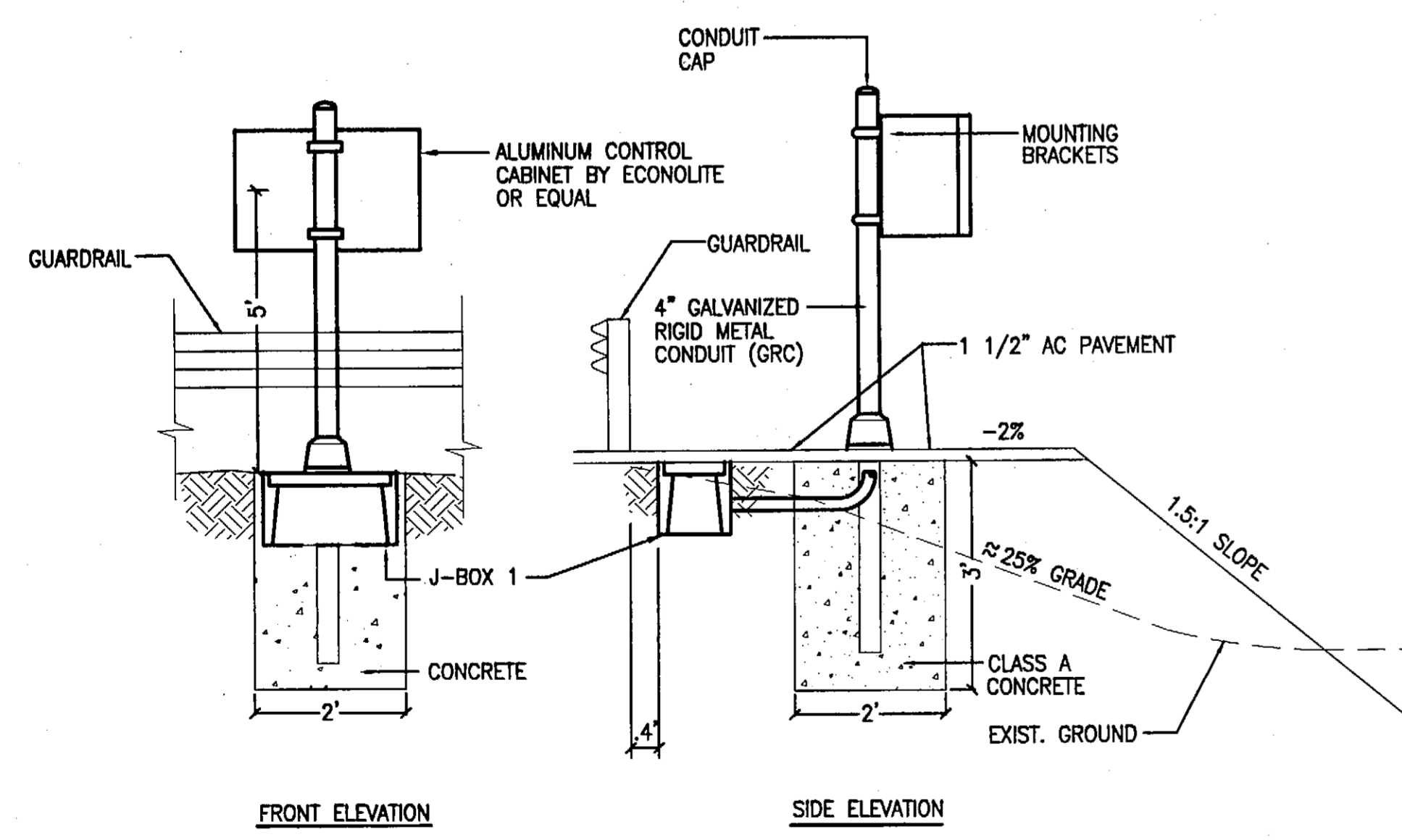
CONDUIT/CONDUCTOR SCHEDULE

JUNCTION BOX SUMMARY	
NUMBER	TYPE
JB1	1-A

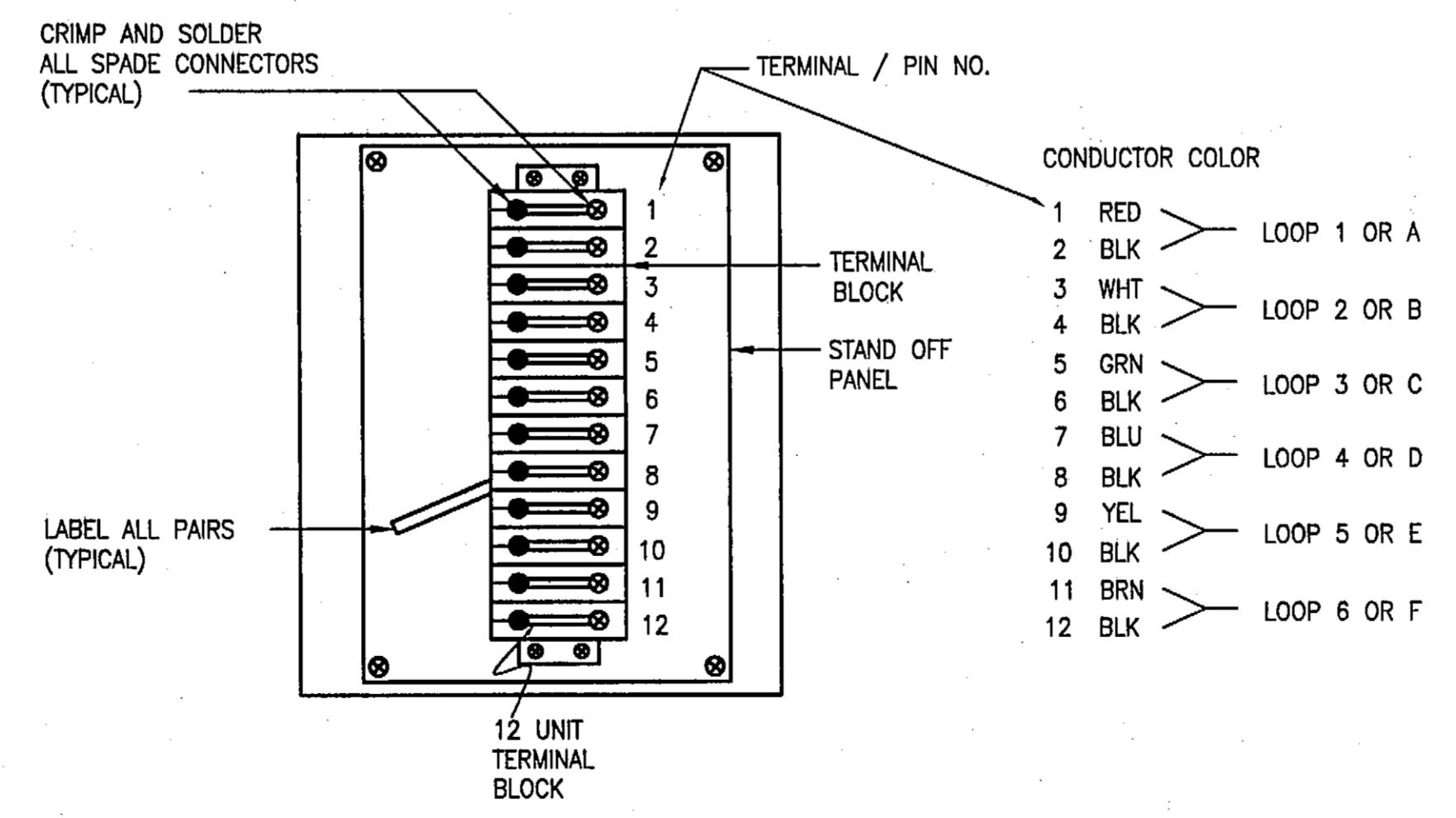
SEE STANDARD DRAWING L-23-01 FOR J-BOX DETAILS.

SHEET NOTES

1. CONTROLLER CABINET DOORS TO OPEN AWAY FROM ROADWAY.
2. USE FACTORY 90° ELBOWS TO/FROM J-BOXES ON ALL CONDUITS LARGER THAN 1".
3. ALL CONDUIT SHALL BE GALVANIZED STEEL UNLESS NOTED OTHERWISE.
4. NOT ALL CONDUITS MAY BE SHOWN IN DETAIL. ADD OTHERS AS REQUIRED.
5. PROVIDE CONDUIT DRAIN HOLES PER STANDARD SPECIFICATIONS SECTION 660-2.05.



PLAN "A-A"  
CABINET TYPE CBA1 DETAIL  
NTS

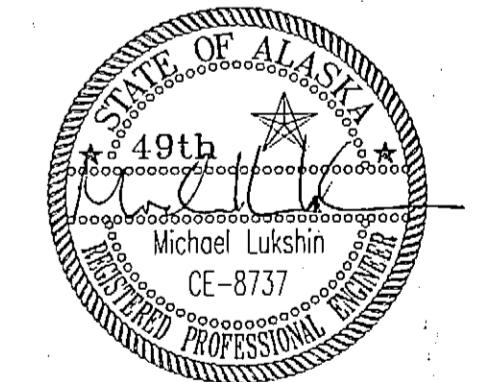


CABINET TYPE CBA1 DETAIL  
FRONT VIEW, DOOR OPEN

JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION  
68542~IM-0966(23)

Automated Traffic  
Recorder Details

DESIGNED BY: P. Jones



CHECKED BY: M. Lukshin  
DRAWN BY: D. Stevens

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

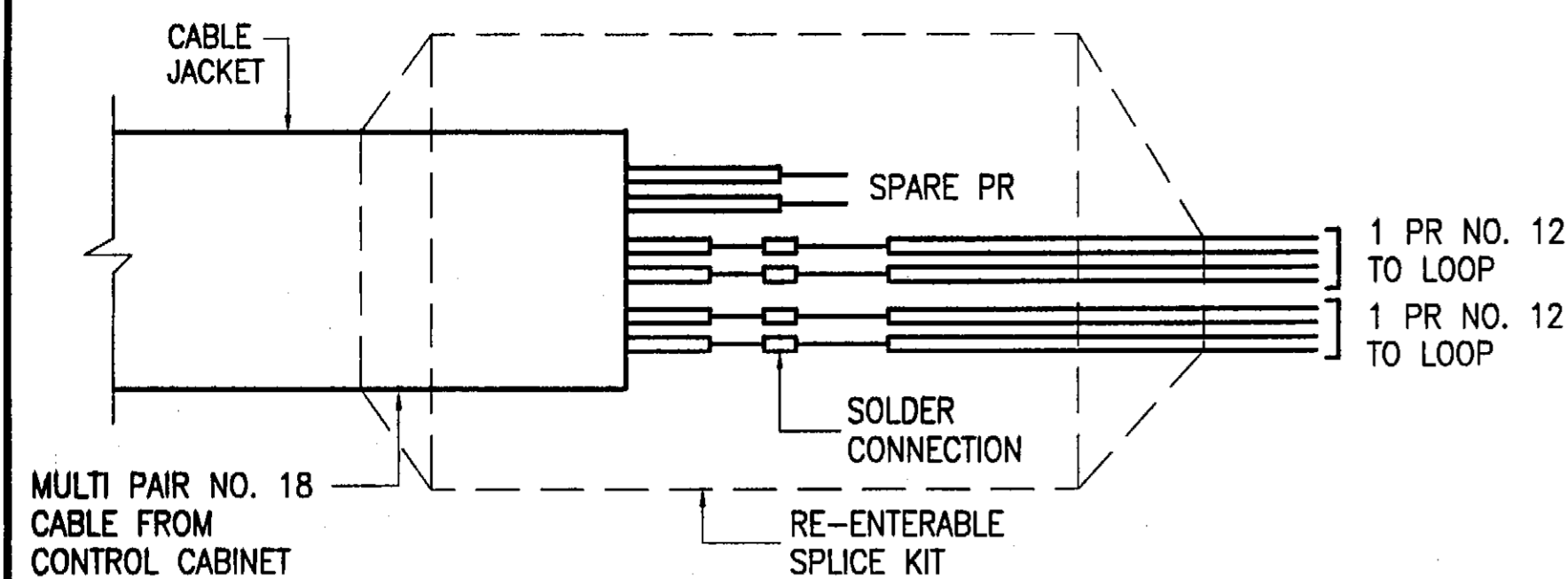
JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION

Automated Traffic  
Recorder Details

PROJECT DESIGNATION NUMBER  
68542~IM-0966(23)

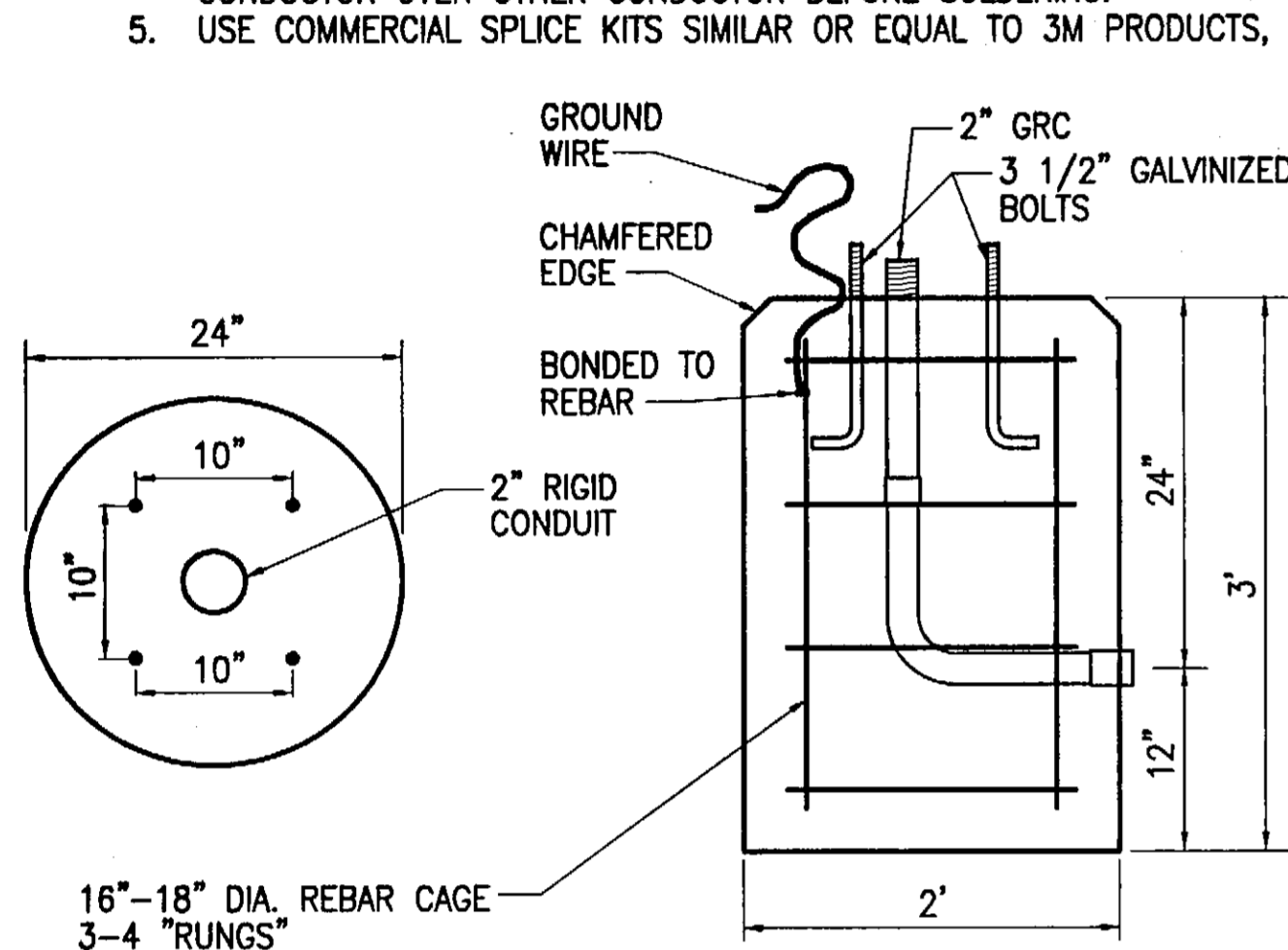
STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
12	29

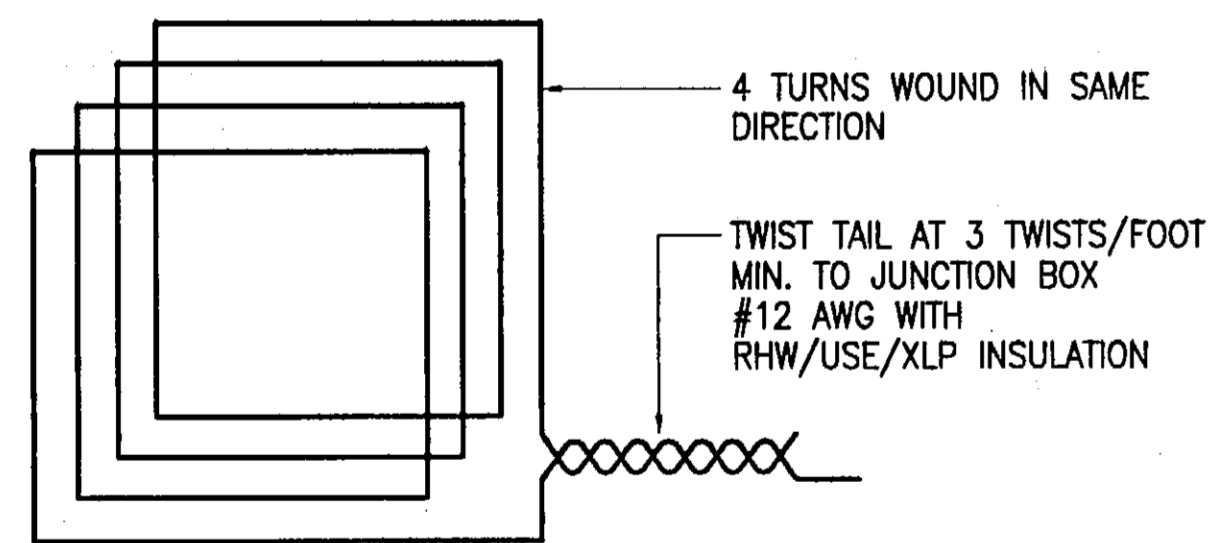


**TYPICAL SPLICE DETAILS**

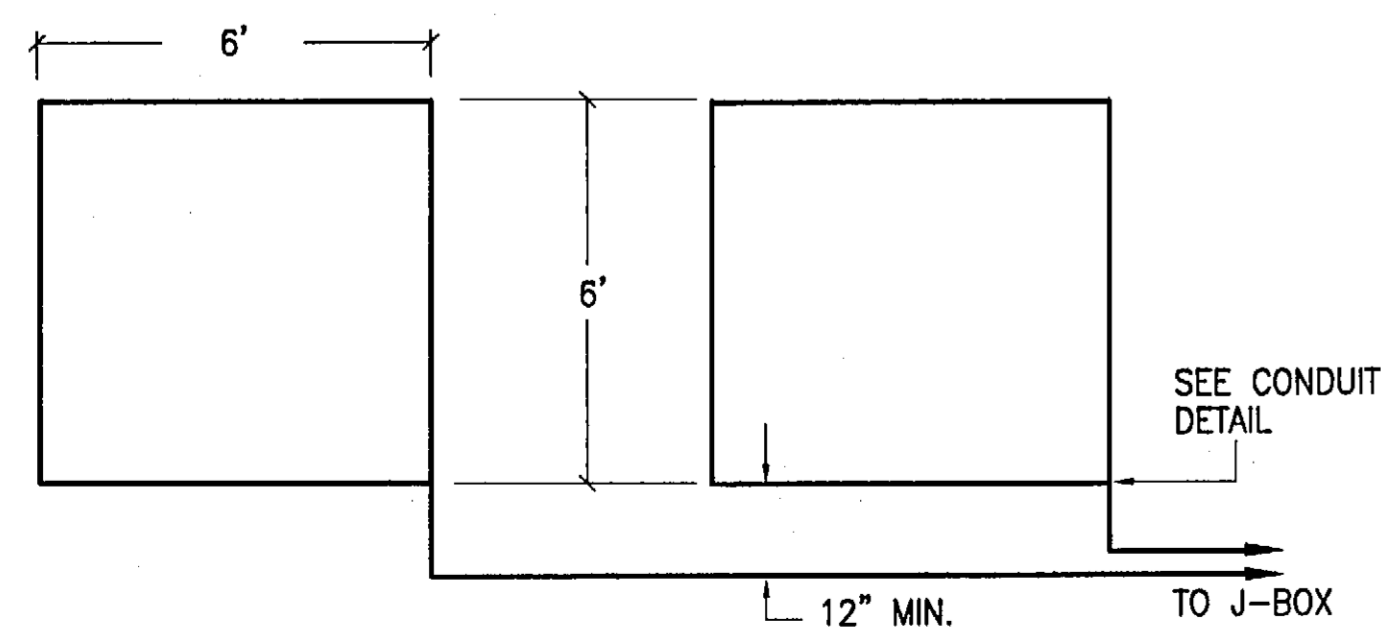
- NOTES:
1. SCHEMATIC SKETCH SHOWS AN EXAMPLE OF TWO PAIRS USED WITH ONE SPARE
  2. TERMINATE ALL SPARES WITHIN THE SPLICE BODY.
  3. SPLICE BODY TO ENCLOSE ALL CABLE JACKETS.
  4. SOLDER CONNECTIONS. DO NOT USE COMPRESSION CONNECTORS WRAP EACH CONDUCTOR OVER OTHER CONDUCTOR BEFORE SOLDERING.
  5. USE COMMERCIAL SPLICE KITS SIMILAR OR EQUAL TO 3M PRODUCTS, TYPE 82-F1.



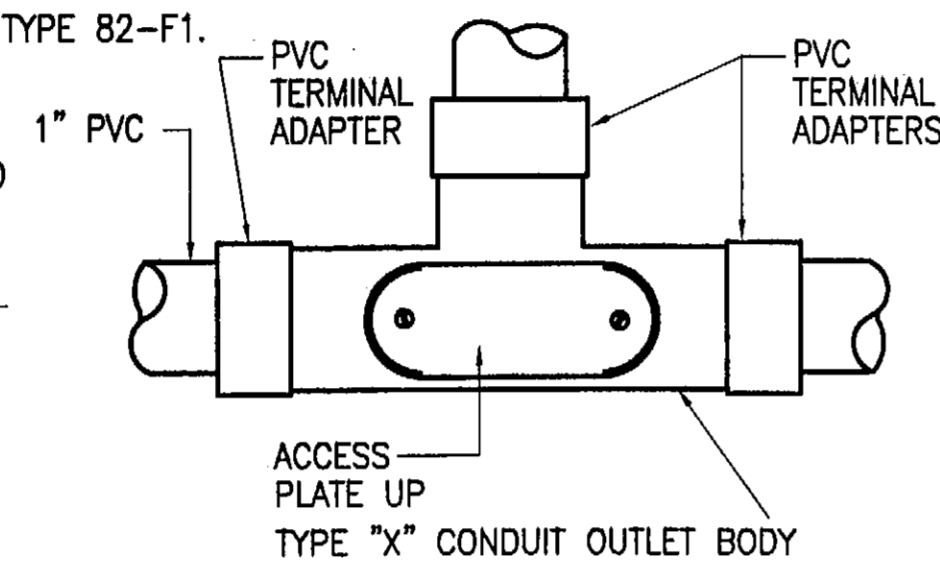
**CABINET POST FOOTING DETAIL**



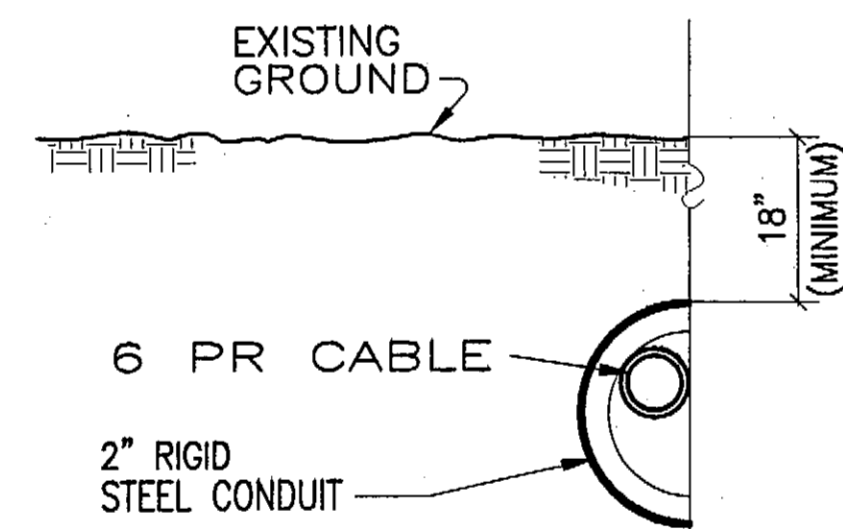
**LOOP WIRING DETAIL**



**LOOP INSTALLATION PLAN**

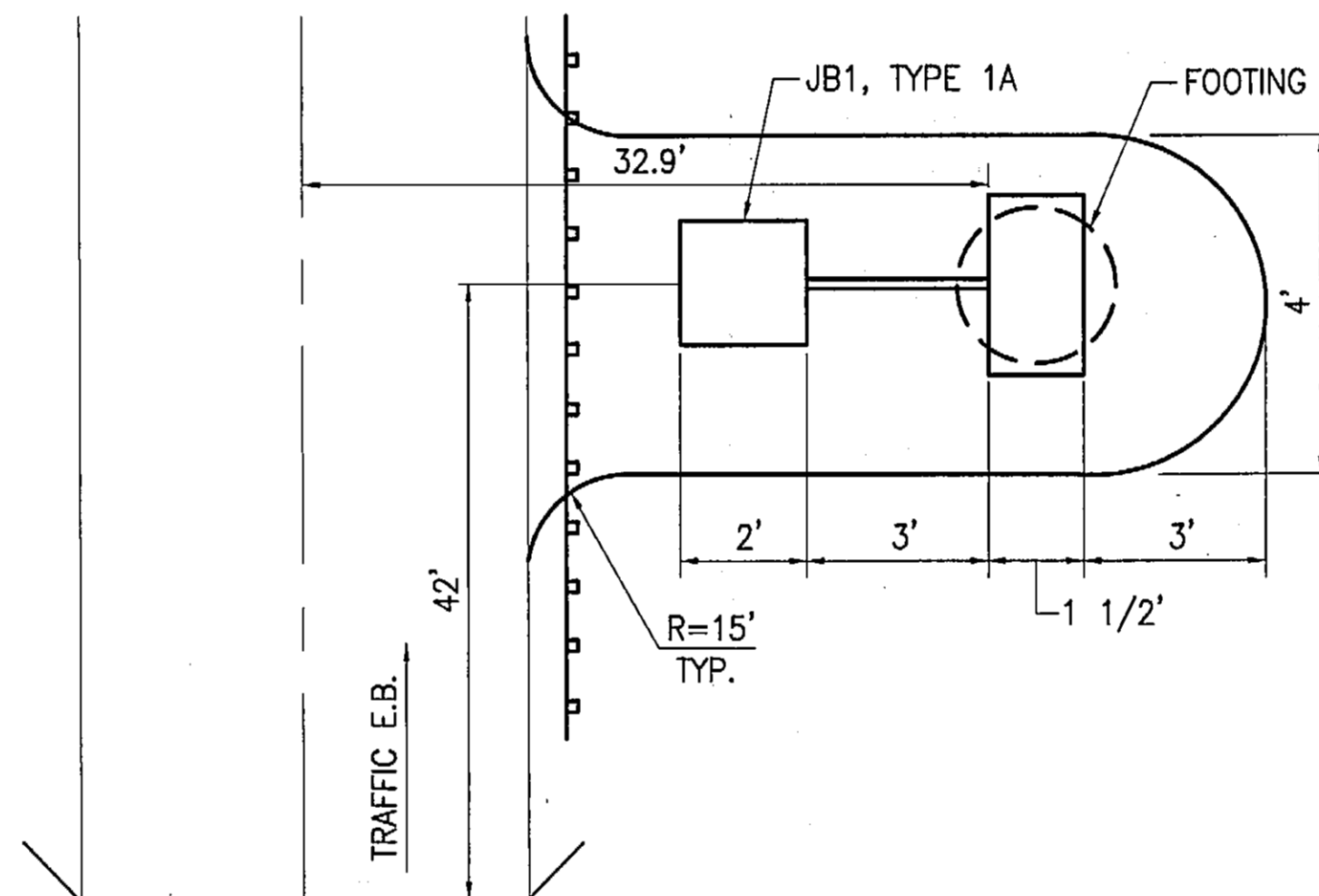
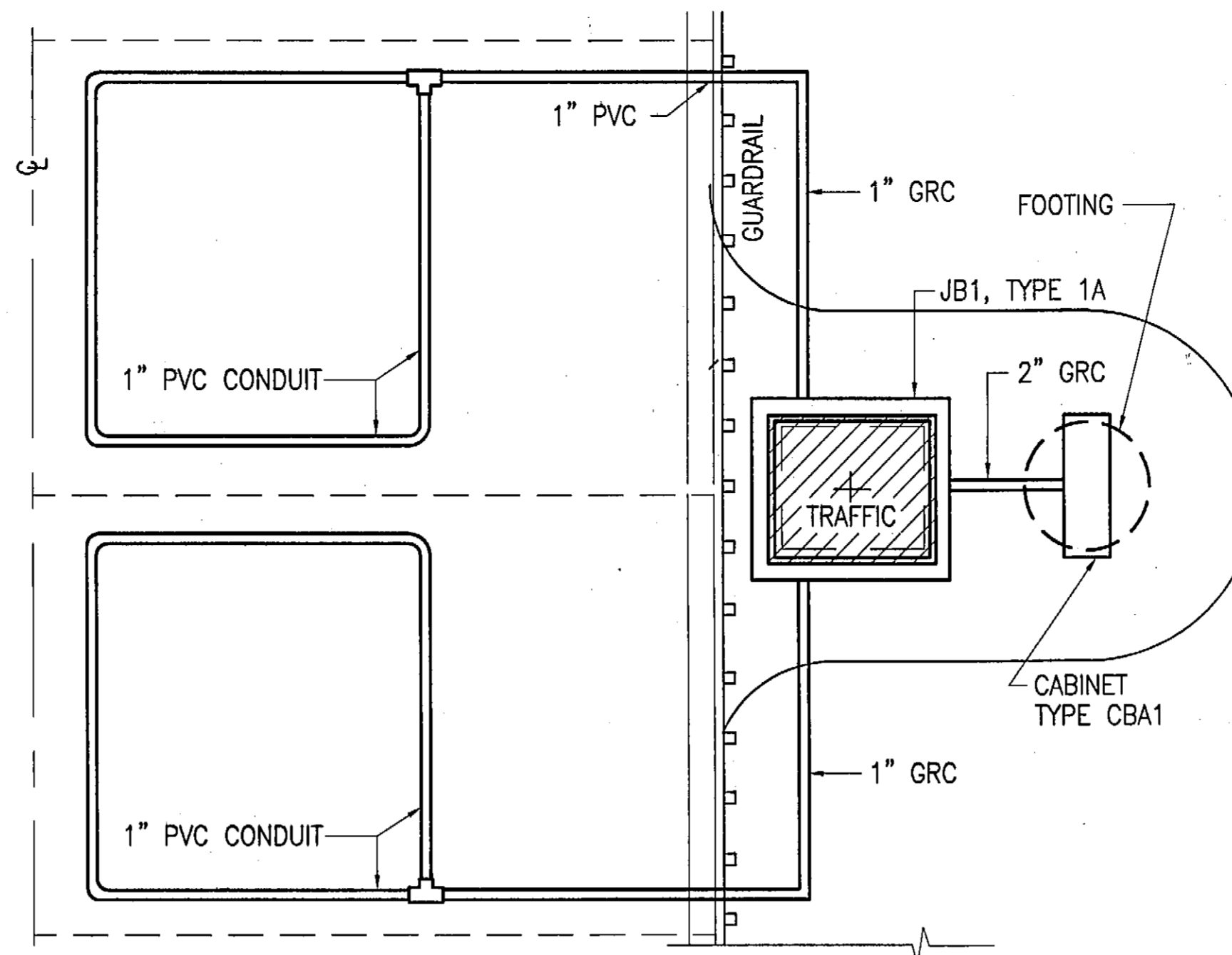


**CONDUIT DETAIL**



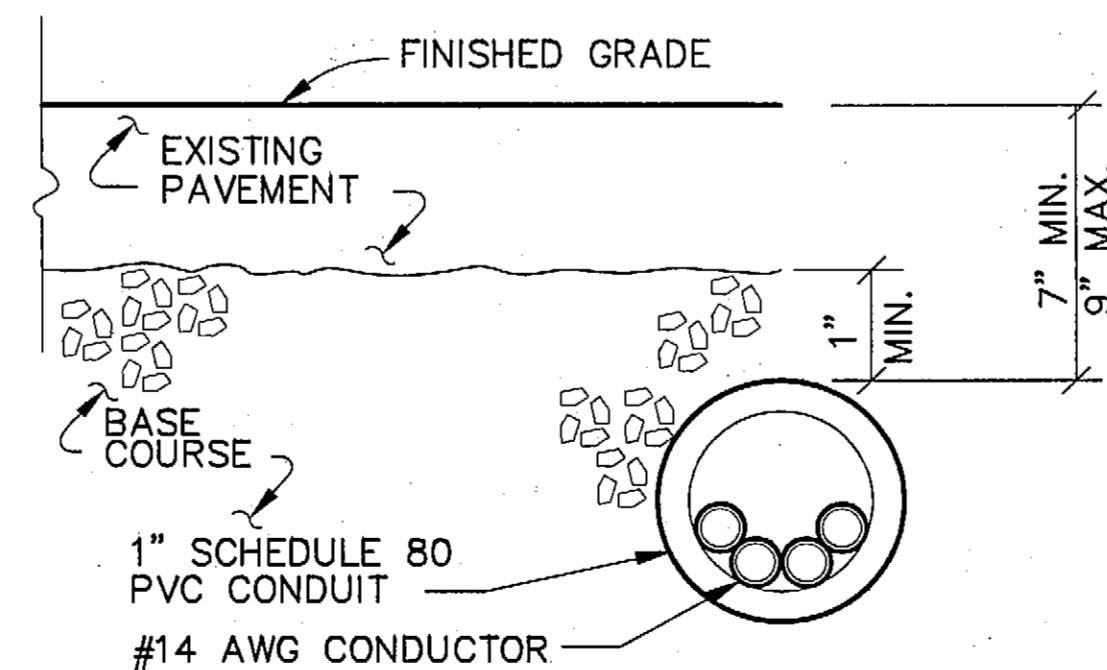
**2" RIGID METAL CONDUIT INSTALLATION DETAIL**

N.T.S.



**PAD TYPICAL**

OR AS DIRECTED BY THE ENGINEER



**PVC LOOP CONDUIT DETAIL**

**SHEET NOTES**

1. WHEN NEW ASPHALT PAVEMENT IS BEING INSTALLED, COMPLETE LOOP INSTALLATIONS PRIOR TO PAVING.
2. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, EACH LOOP SHALL BE CHECKED FOR CONTINUITY AND CONDUCTOR INSULATION INTEGRITY IN ACCORDANCE WITH SECTION 660-2.14 OF THE SPECIFICATIONS.
3. SPLICING OF THE LOOP TAIL WIRES TO THE LEAD-IN CABLE SHALL CONFORM TO SECTION 660-2.09(A) OF THE SPECIFICATIONS.
4. LABEL ALL LOOP TAILS AND LEAD-IN CABLE IN ACCORDANCE WITH SECTION 660-2.08 AND TABLE 660(4) OF THE SPECIFICATIONS.
5. ALL DETECTOR LOOPS SHALL BE 6' WIDE BY 6' LONG, UNLESS DIMENSIONED OTHERWISE IN THE PLANS.
6. LEAD IN WIRES FOR EACH LOOP SHALL BE IN SEPARATE CONDUITS TO THE FIRST JUNCTION BOX WITH A MINIMUM SEPARATION BETWEEN CONDUITS OF 6".
7. INDUCTIVE LOOPS SHALL BE INSTALLED IMMEDIATELY PRIOR TO PAVING. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50' OF LOOPS.
8. ALL PVC CONDUIT COUPLINGS, ELBOWS AND ADAPTERS SHALL BE 1" SCHED. 80.
9. ALL PVC JOINTS SHALL BE SOLVENT WELDED AND WATERTIGHT.
10. INSTALL .5" PREFORMED BITUMINOUS JOINT MATERIAL AROUND ALL JUNCTION BOXES WHEN LOCATED IN A SIDEWALK.
11. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH MIN. No. 4 BARE CU.
12. ALL JUNCTION BOX COVERS SHALL BE BONDED WITH COPPER BRAID OF #8 AWG CROSS SECTION. FOR TYPES I & I-A THE LENGTH SHALL BE 3' AND 5' FOR TYPES II & III.
13. J-BOX TO BE LOCATED 2' BEHIND UTILIWALK OR SIDEWALK WHEN PRESENT. J-BOXES SHALL BE CONSTRUCTED AND INSTALLED PER STANDARD DRAWING L-23.01.
14. JUNCTION BOXES SHALL BE SET FLUSH WITH THE SURROUNDING SURFACE EXCEPT IN AN UNPAVED SHOULDER, WHEN THEY SHALL BE LOCATED 2" BELOW GRADE.
15. JUNCTION BOX COVERS TO BE EMBOSSED WITH "TRAFFIC".
16. PROVIDE CONDUIT DRAIN HOLES PER STANDARD SPECIFICATIONS SECTION 660-2.05.
17. INSTALL 3/8"x8" GROUND ROD.
18. CABINET TO BE EQUAL TO OR BETTER THAN ECONOLITE SINGLE DOOR ALUMINUM CLOSURE: 25"x17"x14" WITH NEMA 3R RATING, CORBIN LOCK, EQUIPMENT MOUNTING PANEL AND ADJUSTING SHELF.

PATH: Q:\jnu\68542\Planset\11-ATR Dets2.dwg  
 Thu, 20/Mar/03 01:34PM  
 PLOT:  
 PSPACE 1=1(F) OR MSPACE 1=1(F)  
 TAB: TYPICALS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542-IM-0966(23)

**Automated Traffic Recorder Details**

DESIGNED BY: P. Jones



CHECKED BY: M. Lukshin

DRAWN BY: D. Stevens

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

**Automated Traffic Recorder Details**

PROJECT DESIGNATION NUMBER

68542-IM-0966(23)

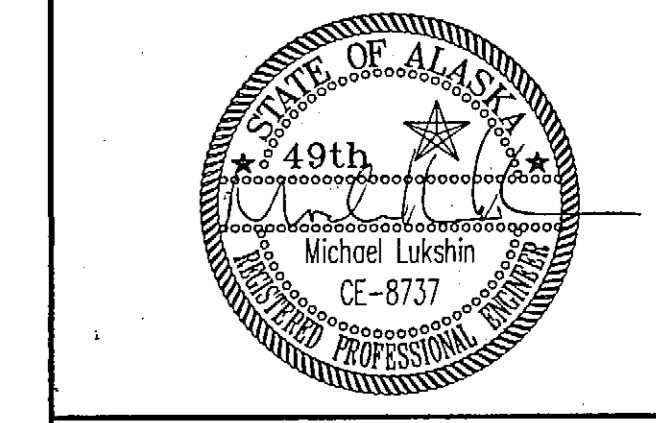
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
13	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

Traffic Control Plans

DESIGNED BY: K. ROBERTS



CHECKED BY: M. LUKSHIN

DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

### Traffic Control Plans

PROJECT DESIGNATION NUMBER  
**68542~IM-0966(23)**

STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
J1	29

### 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  $L = W \times S$

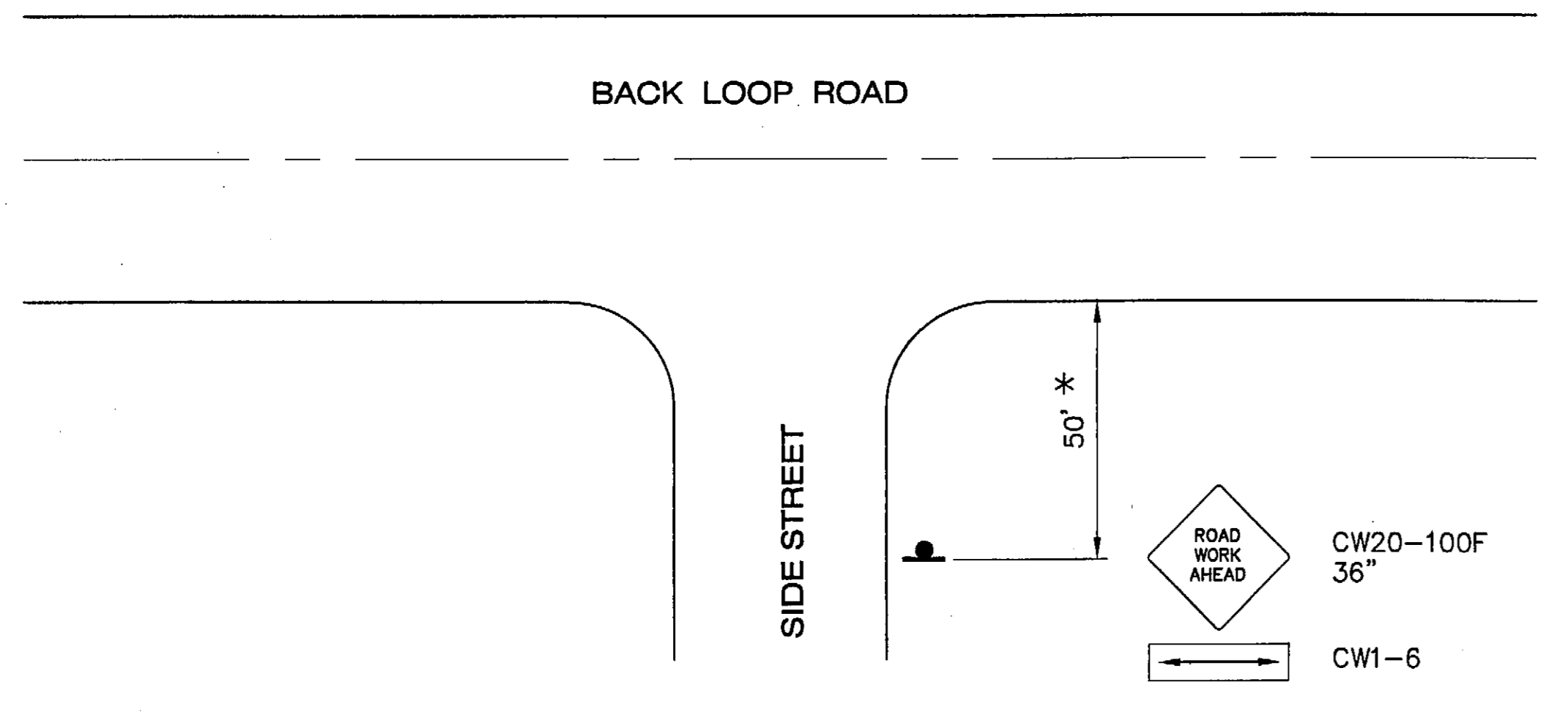
WHERE W= WIDTH OF OFFSET  
 S= POSTED SPEED LIMIT

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

### Traffic Control Notes:

- A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
- TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORK HOURS.
- TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
- CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
- WORK ZONE DOUBLE TRAFFIC FINES SIGNS SHALL BE USED AS DIRECTED BY THE ENGINEER AND PER STANDARD DRAWING C-04.11.
- WARNING LIGHTS SHALL BE USED ON ALL CHANNELIZING DEVICES PLACED ALONG OR AROUND ROADWAY HAZARDS AS DIRECTED BY THE ENGINEER.
- 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 PORTIONS OF DETAILS ON THESE SHEETS.
- MAXIMUM LENGTH OF CONSTRUCTION WITH ONE-LANE ROAD CLOSURE IS 1000'.

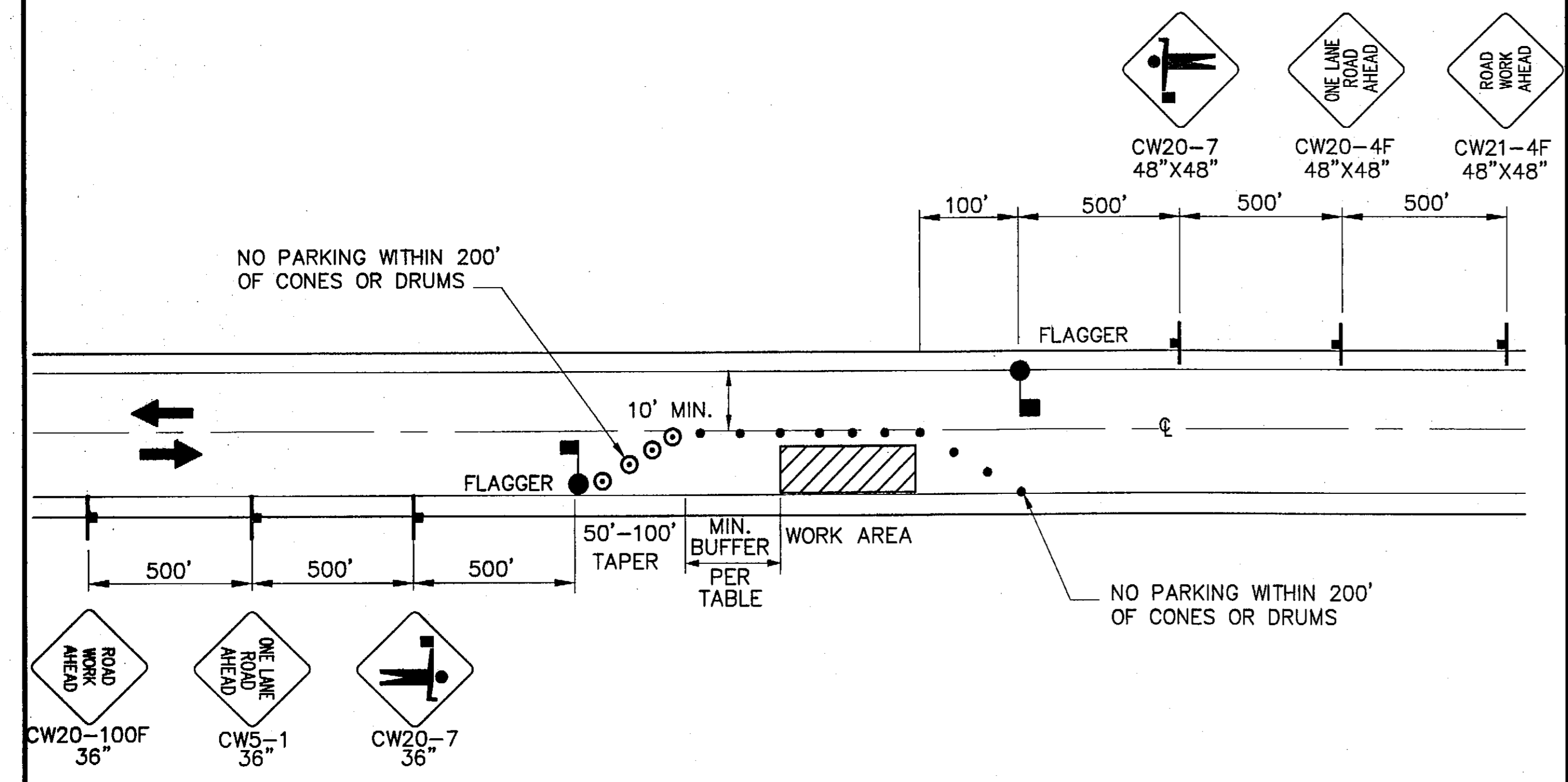


### Permanent Construction Signing Side Streets

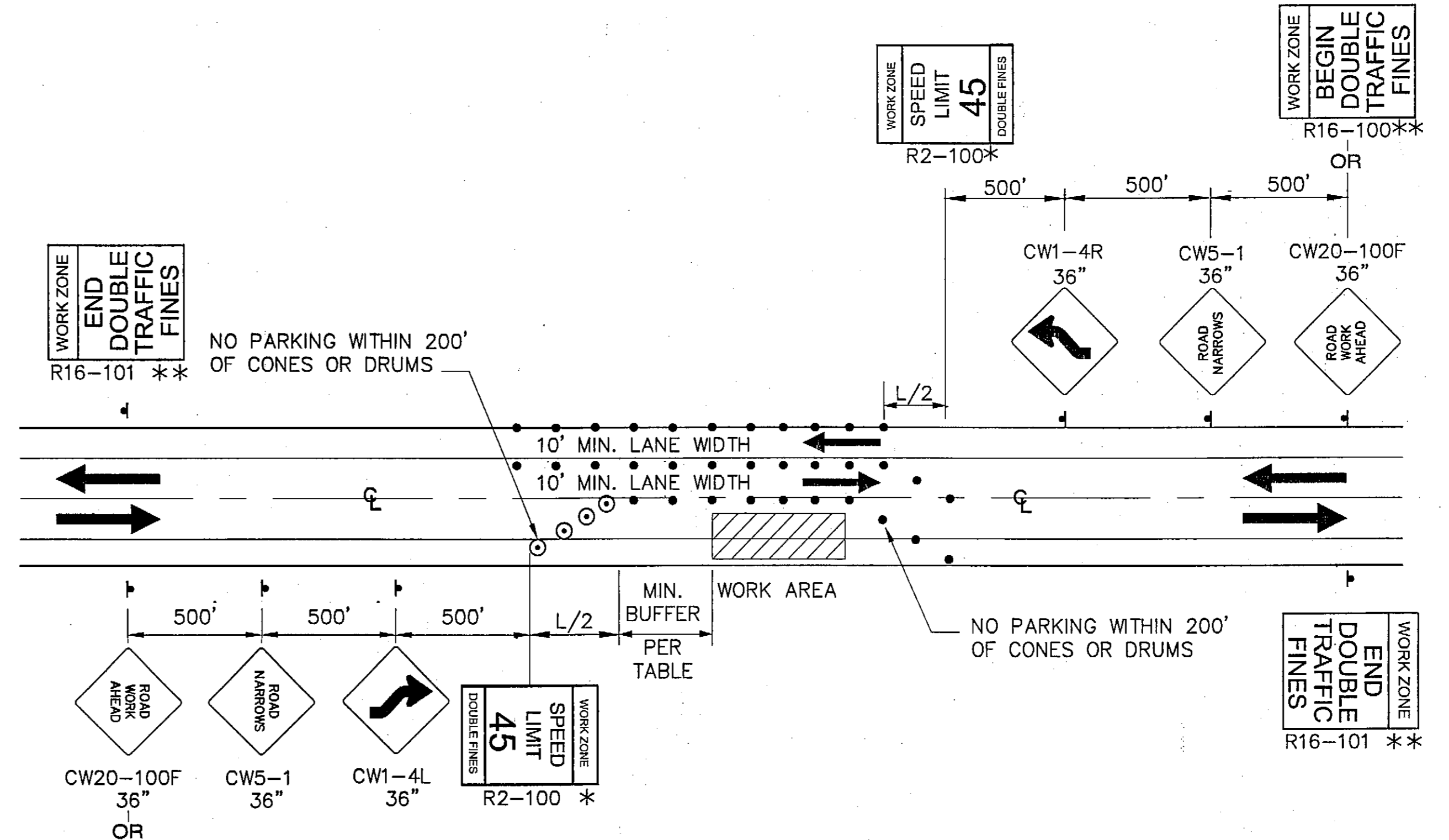
#### Notes:

THIS DETAIL APPLIES TO SIDE STREETS INDICATED IN THE SIDE STREET SIGNING SUMMARY ON THE PERMANENT CONSTRUCTION SIGNING SHEET AND AS INDICATED BY THE ENGINEER.

\* CONSTRUCTION SIGNS SHALL BE PLACED SUCH THAT THEY DO NOT OBSCURE EXISTING TRAFFIC SIGNS.



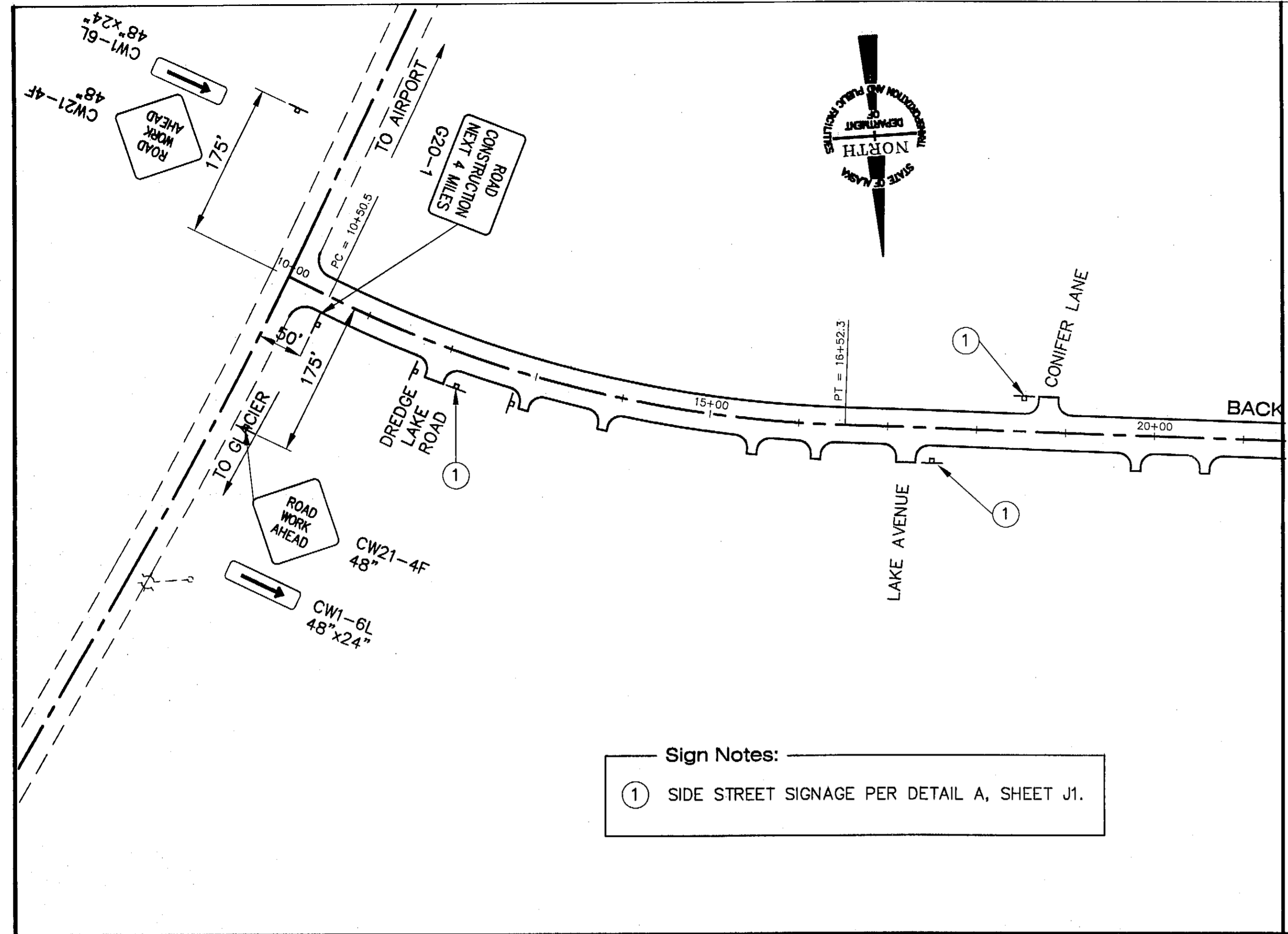
### Single Lane Closure Two Lane Road



### Two-Way Traffic

\* SEE NOTE 6, THIS SHEET.

\*\* R16-100 MAY BE USED IN LIEU OF CW21-4F.



## Side Street Signing Summary

STATION	QUANTITY
DREDGE LAKE ROAD	1
LAKE AVENUE	1
CONIFER LANE	1
NORTH LOOP WAY	2
GLENDALE STREET	2
CHELSEA COURT	1
MINT WAY	1
MENDENHALL RIVER SCHOOL	1
VIEW DRIVE	1
RIVER ROAD	1
MONTANA CREEK ROAD	1
BLUEBERRY LANE	1
STEELHEAD STREET	1
POWERS STREET	1
WREN DRIVE	1
BEAR CREEK SUB. ROAD	1
LILAC DRIVE	1
SPRING WAY	1
GOAT HILL ROAD	2
JO ANNE WAY	1
AUK KWAAN LANE	1
WINDFALL AVENUE	1
AUKE LANE	1
LAKE SHORE DRIVE	1
UNIVERSITY DRIVE	1
LEE STREET	1
AUKE LAKE WAY	1
CAROLINE STREET	1
<b>TOTAL</b>	<b>31</b>

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 TAB: TYPICALS

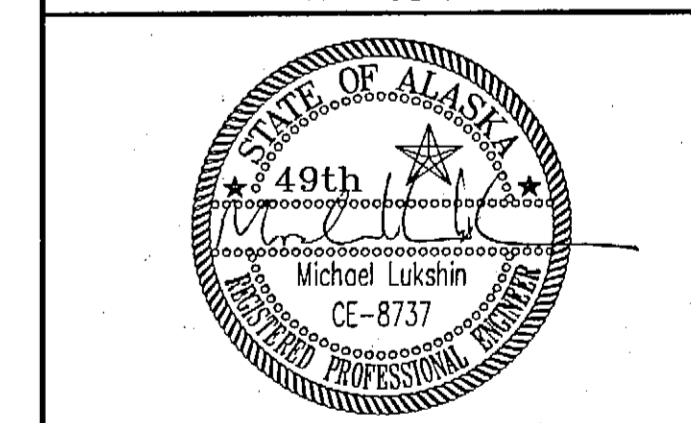
ADDENDUM NUMBER  
 ATTACHMENT NUMBER  
 RECORD OF REVISIONS  
 No. DATE DESCRIPTION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

**Permanent Construction Signs**

**PLAN**  
**LAYOUT PLAN**  
**KEY MAP**

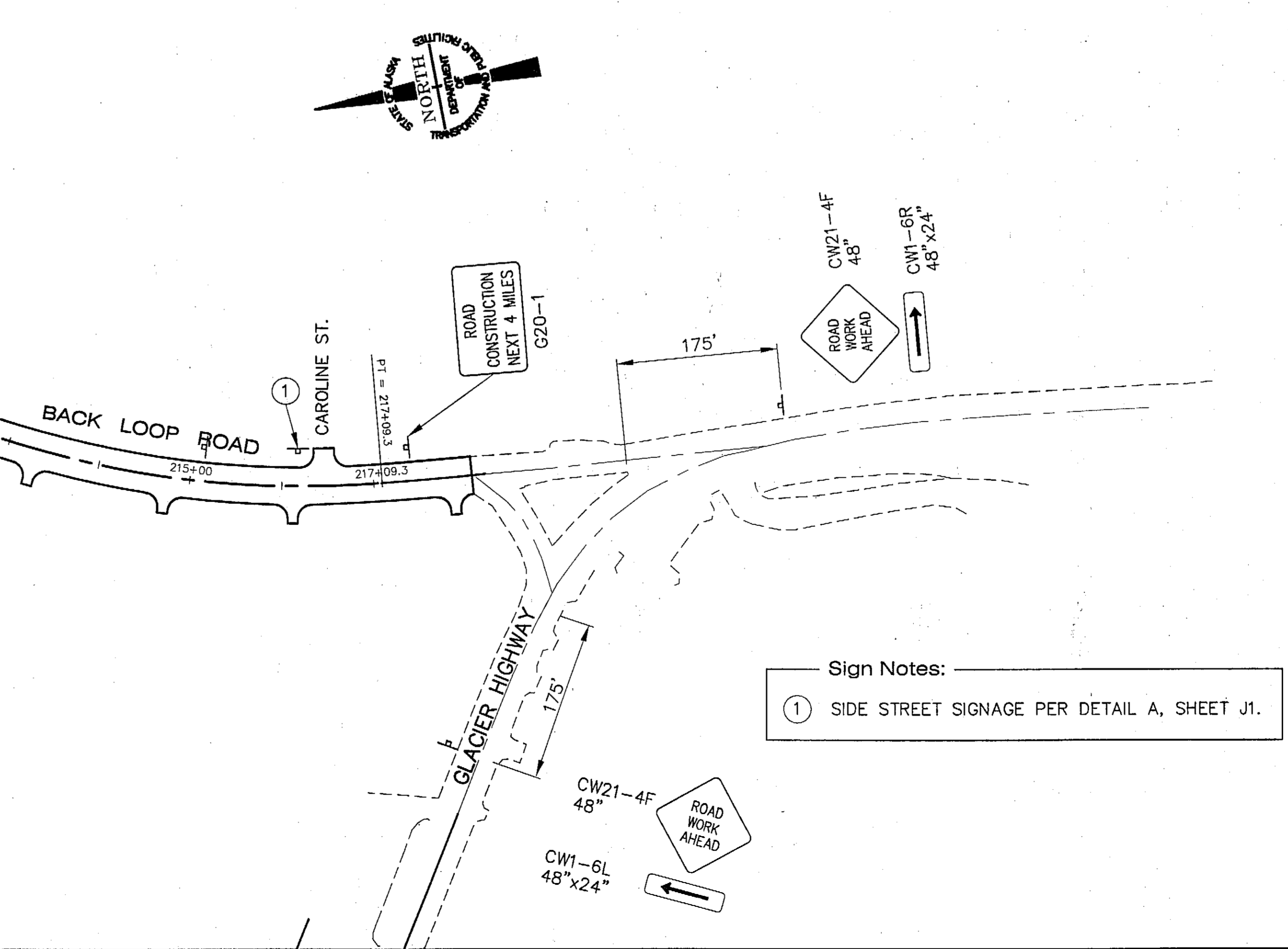
DESIGNED BY: K. ROBERTS



CHECKED BY: M. LUKSHIN  
 DRAWN BY: D. STEVENS  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

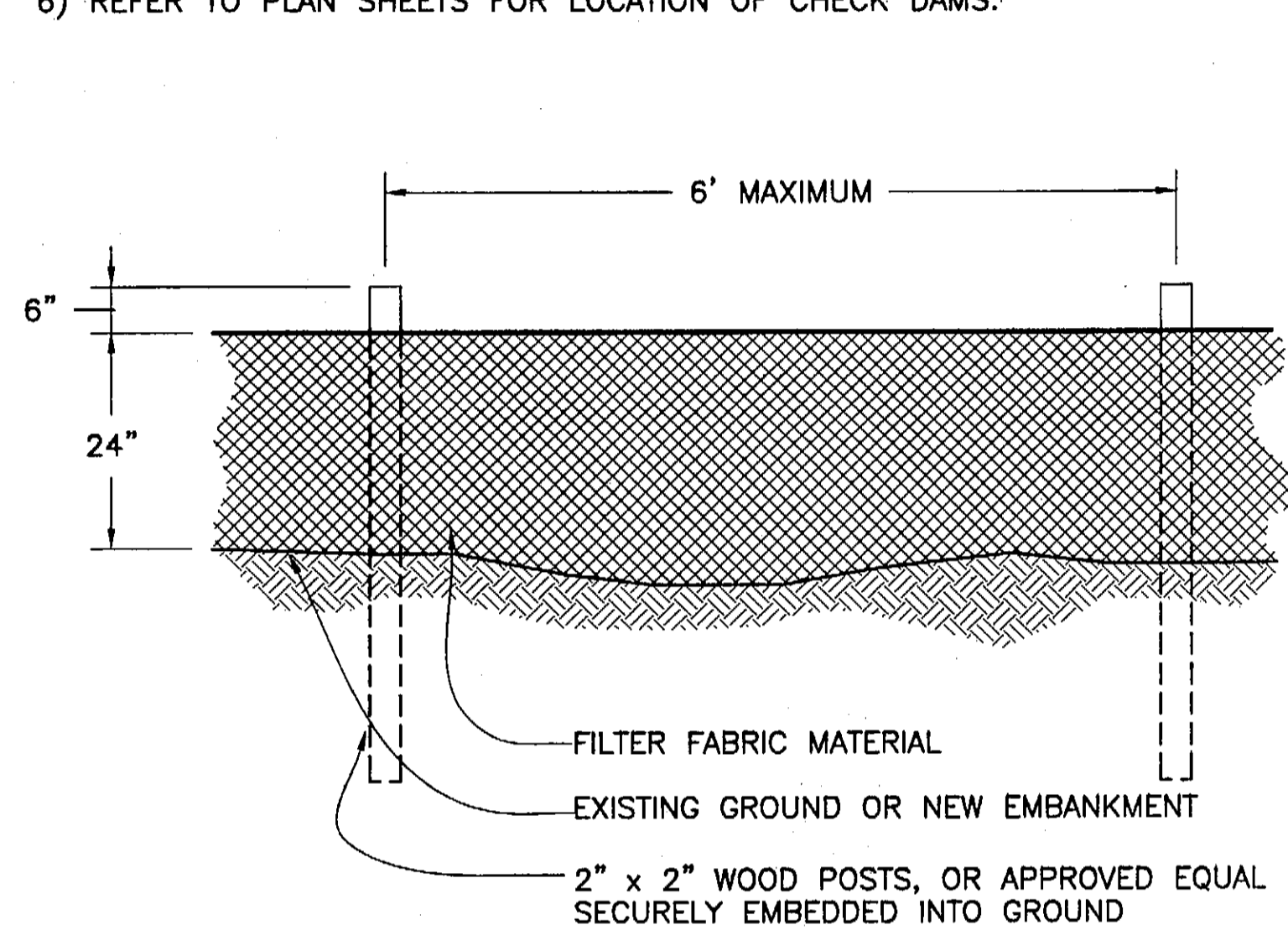
**JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 Permanent  
 Construction  
 Signs**

PROJECT DESIGNATION NUMBER	
<b>68542~IM-0966(23)</b>	
STATE	YEAR
<b>ALASKA</b>	<b>2003</b>
SHEET NUMBER	TOTAL SHEETS
<b>J2</b>	<b>29</b>

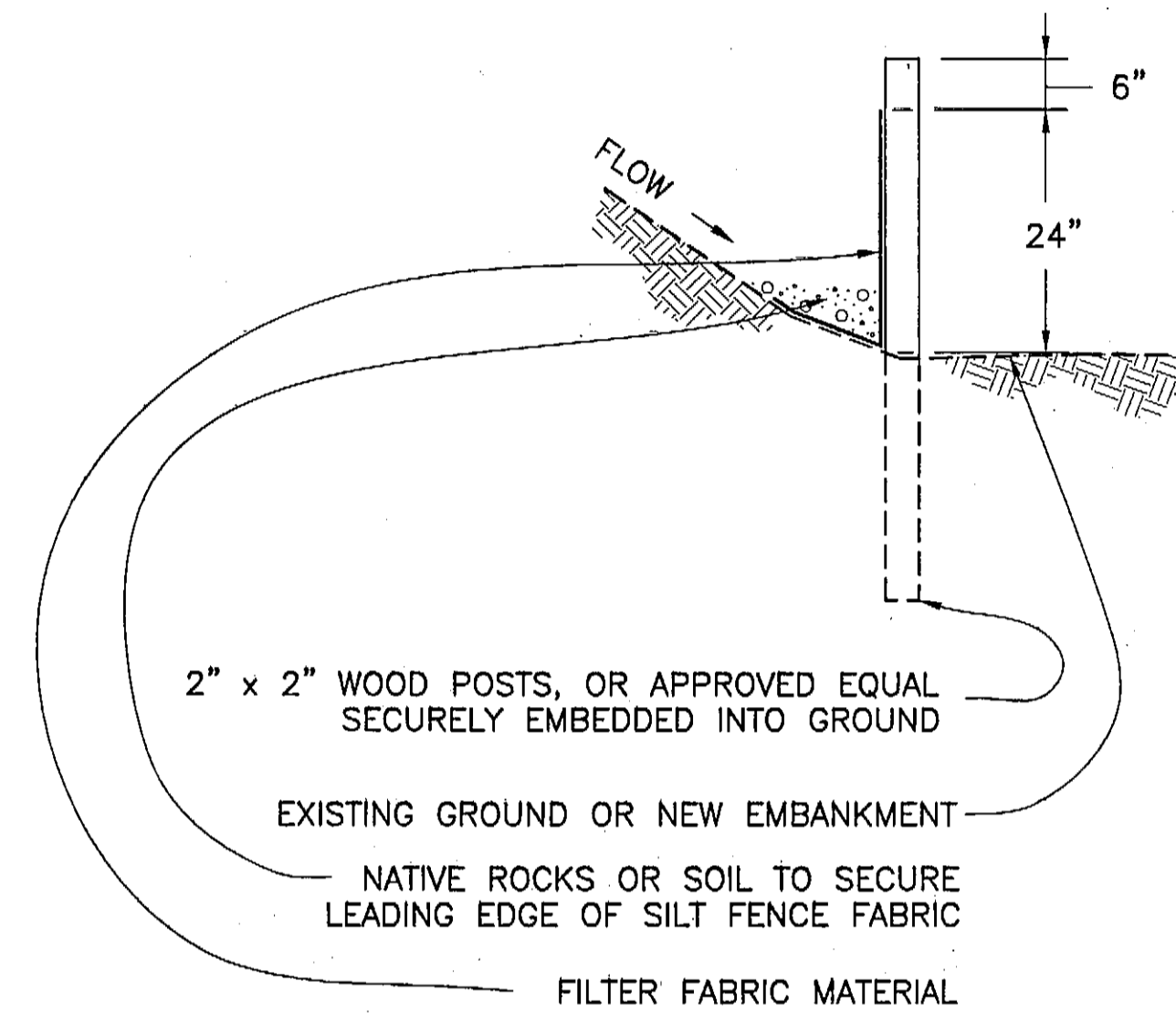


**Notes:**

- THE PROJECT IS LOCATED IN THE MENDENHALL RIVER, MONTANA CREEK, LAKE CREEK AND AUKE LAKE WATERSHEDS; A PORTION OF THE DRAINAGE FROM THE PROJECT WORK LIMITS DISCHARGES INTO THESE STREAMS. THE CATALOGUED FISH STREAMS ARE LISTED BELOW WITH THE APPROXIMATE STATION THAT THEY CROSS THE ROADWAY:
  - MENDENHALL RIVER - STA. 67+15
  - MONTANA CREEK - STA. 130+50
  - LITTLE LAKE CREEK - STA. 171+50
  - LAKE CREEK - STA. 186+20
  - MB CREEK - STA. 191+30
  - UNIVERSITY CREEK - STA. 193+10
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES FOR EARTH DISTURBING ACTIVITIES.
- MAINTAIN DEVICES. MONITOR DAILY. EXCAVATE CHECK DAMS WHEN 4" OR MORE SEDIMENT. ENSURE SILT FENCE IS TIGHT AGAINST GROUND.
- IF INSPECTION REVEALS WATER IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. ADDITIONAL SILT FENCING OR CHECK DAMS MAY BE REQUIRED. SWEEPING OF PAVED SURFACES AND TEMPORARY SEEDING AND MATTING MAY ALSO BE REQUIRED.
- STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABILIZED SURFACES MUST BE TEMPORARILY STABILIZED WITH SEEDING, MATTING, OR OTHER EFFECTIVE MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL UNTIL PROJECT WORK AREAS ARE PAVED AND SEEDED AREAS HAVE ACHIEVED 70% VEGETATIVE COVER.
- REFER TO PLAN SHEETS FOR LOCATION OF CHECK DAMS.



**Elevation**



**Section**

**Silt Fence Details**

**Site Characteristics:**

**A. PHYSICAL LOCATION:**

JUNEAU IS SITUATED AT THE NORTHERN END OF THE ALEXANDER ARCHIPELAGO.  
 BOP COORDINATES: 58°23'51" N. LATITUDE  
 134°33'37" W. LONGITUDE  
 HORIZONTAL DATUM: NAD 83  
 SECTIONS 17 & 18, TOWNSHIP 040 SOUTH, RANGE 066 EAST, AND  
 SECTIONS 13, 23 & 24, TOWNSHIP 040 SOUTH, RANGE 065 EAST, COPPER RIVER MERIDIAN

**B. PRECIPITATION AND HYDROLOGY INFORMATION:**

JUNEAU AVERAGES 54" INCHES OF PRECIPITATION PER YEAR AND 100 INCHES OF SNOW.  
 ESTIMATED PRE-CONSTRUCTION RUNOFF COEFFICIENT: C=0.65  
 ESTIMATED POST-CONSTRUCTION RUNOFF COEFFICIENT: C=0.65  
 RECEIVING WATERS ARE LISTED UNDER NOTE NUMBER ONE (TO THE LEFT).  
 AREA OF PROJECT = 22.6 ACRES.  
 DISTURBED AREA = 4.73 ACRES.

**Description of Construction Activity:**

**A. ROAD REHABILITATION:**

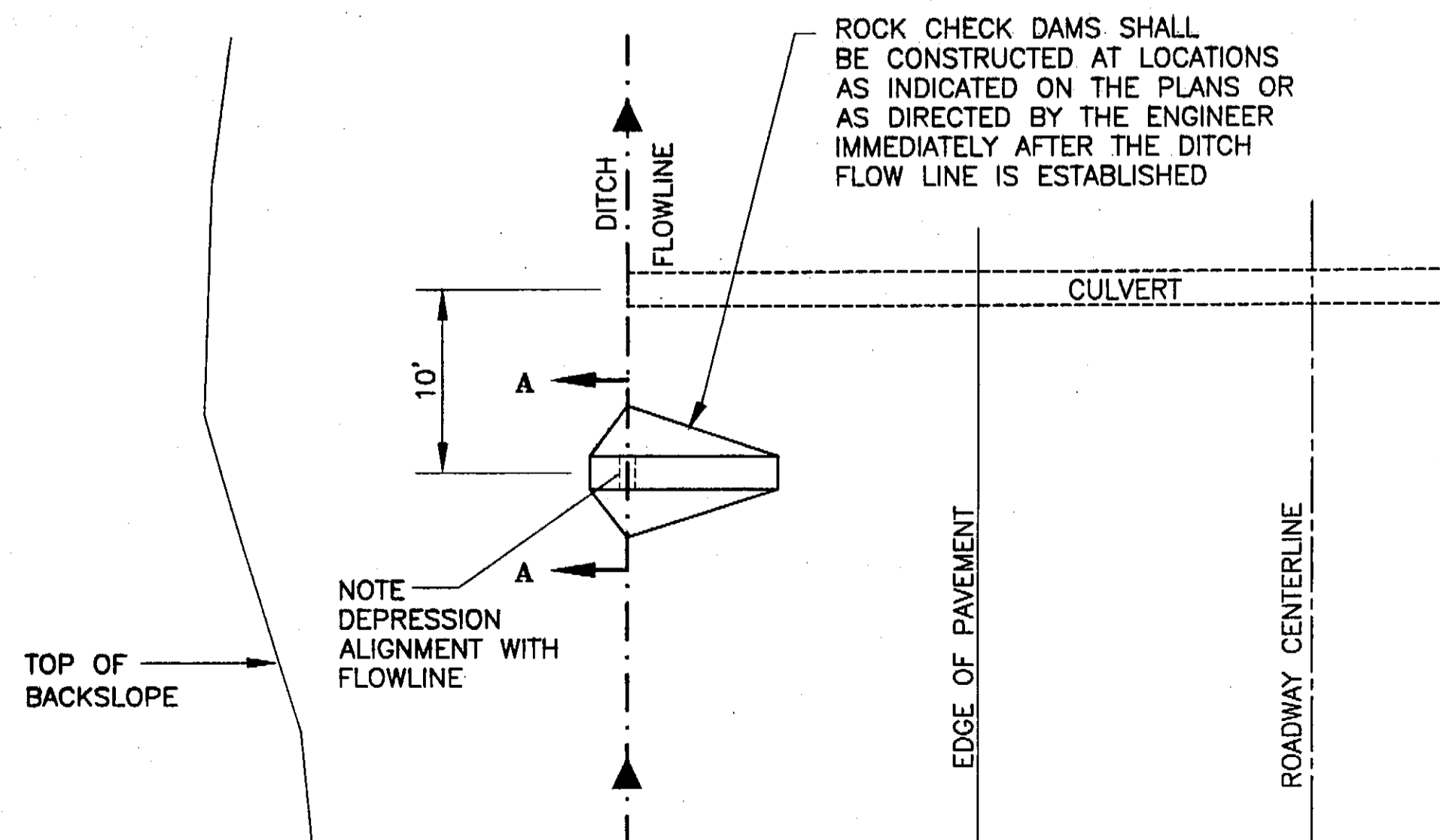
THE PLANS CALL FOR THE REHABILITATION OF THE EXISTING 40-FOOT WIDE PAVED ROADWAY SURFACE. WORK ON THE NEW ROAD WILL BEGIN AT ONE END OF THE PROJECT AND WORK TOWARDS THE OTHER END. THE CONSTRUCTION PHASING PLAN SHEET DEPICTS THE WORK STARTING AT THE BOP AND ENDING AT THE EOP. THE WORK WILL BE BROKEN INTO THREE SEGMENTS ROUGHLY ONE MILE IN LENGTH, AND A FOURTH SHORTER SEGMENT OF ONE-HALF MILE. WORK TO BE COMPLETED BEFORE MOVING FROM ONE SEGMENT TO ANOTHER IS SUMMARIZED AS FOLLOWS:  
 -PULVERIZE THE EXISTING PAVEMENT AND 2-4 INCHES OF EXISTING BASE COURSE AND MIX IT WITH PORTLAND CEMENT CONCRETE AND AN ASPHALT EMULSION, THEN SHAPE AND COMPACT IT FOR USE AS THE NEW EMULSIFIED ASPHALT TREATED BASE. FOLLOW WITH THE PLACEMENT OF THE 1.5" ASPHALT TREATED BASE COURSE (ATB). REMOVAL OF EXISTING PAVEMENT PATCHES ON RESIDENTIAL/COMMERCIAL APPROACHES WILL ALSO BE INCLUDED IN THE SEGMENTAL WORK.

**B. BRIDGE WORK & RESURFACING:**

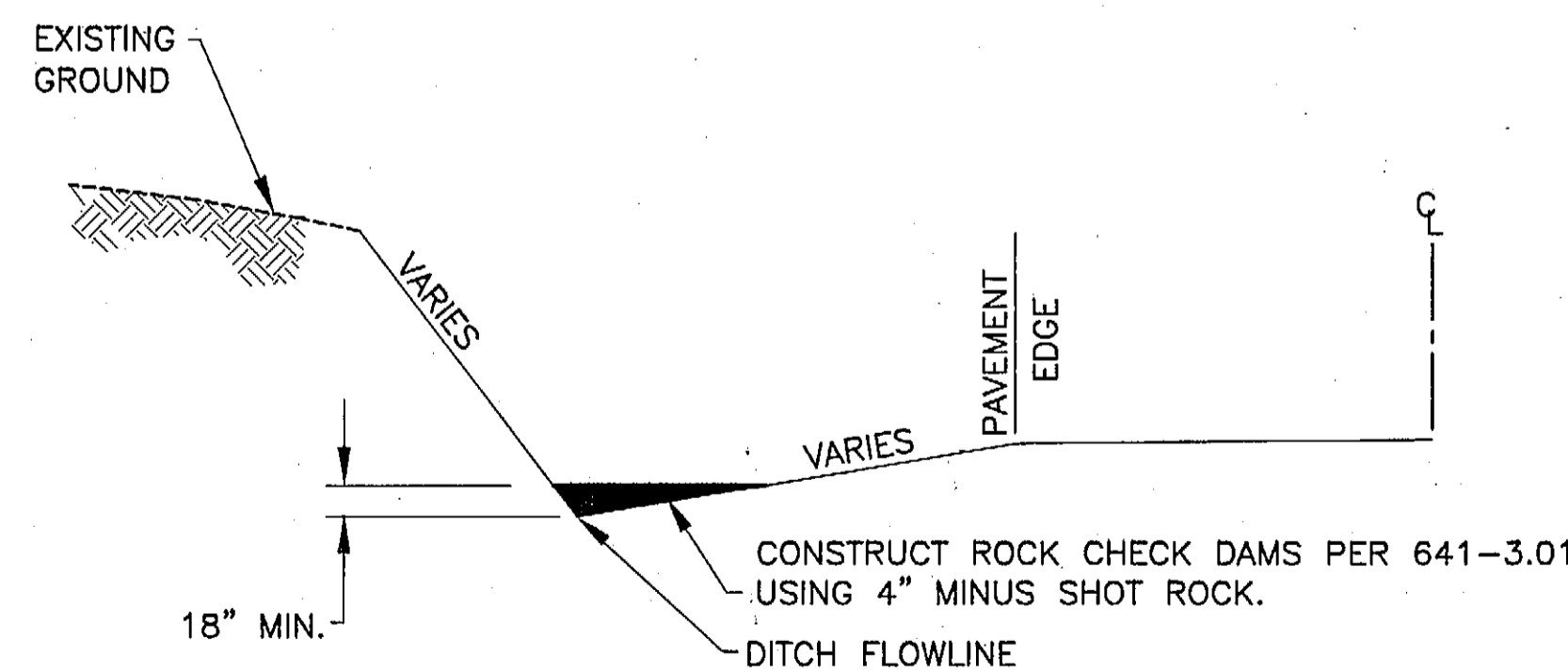
THE PLANS CALL FOR VARIOUS TYPES OF BRIDGE WORK AT MENDENHALL RIVER, MONTANA CREEK AND LAKE CREEK. ALL THREE WILL RECEIVE A NEW WATERPROOF MEMBRANE AND HAVE THEIR PAVEMENT REPLACED WITH A NEW LIFT OF 1.5" (EACH) ATB AND HOT MIX ASPHALT. OTHER REPAIRS BEING MADE ARE CONCRETE SIDEWALK REPAIR, ADDITION OF JOINT FILLER, AND PLACEMENT OF SLOPE FILL, AS REQUIRED. THE SEQUENCING OF THIS WORK WILL BE CLOSELY RELATED TO THE TIMING OF PLACING THE FINAL LIFT OF HOT MIX ASPHALT.

**C. ROCK QUARRY MINING**

THE CONTRACTOR MAY DEVELOP AN AREA IN THE STABLERS POINT ROCK QUARRY FOR EXTRACTING ROCK TO MAKE AGGREGATES TO USE ON THIS PROJECT. THE DESIGNATED AREA IS SHOWN ON THE PLANS IN APPENDIX C. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AND STIPULATIONS CONTAINED ON THE ROCK QUARRY USAGE PLAN, CBJ CONDITIONAL USE PERMIT USE 2001-00022, CBJ VARIANCE VAR 2001-00017, THE CBJ BLASTING SPECIFICATIONS AND THE CBJ EAGLE MONITORING SPECIFICATIONS 2001-01520, WHICH ARE ALL CONTAINED IN APPENDIX C.

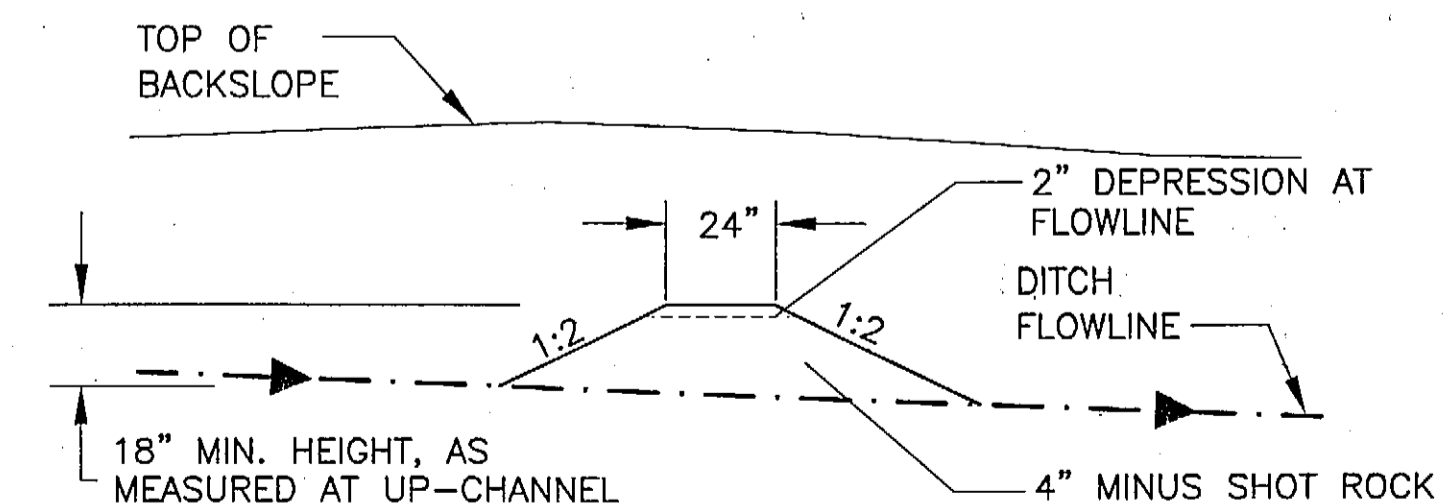


**Plan**



**Elevation**

**Rock Check Dam Details**



**Section A-A**

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 TRB:PTYPICALS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)**  
**Erosion & Sediment Control  
 Plan & Details**

DESIGNED BY: J. OSBURN



CHECKED BY: L. GREGOVICH  
 DRAWN BY: OSBURN/BENNETT

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

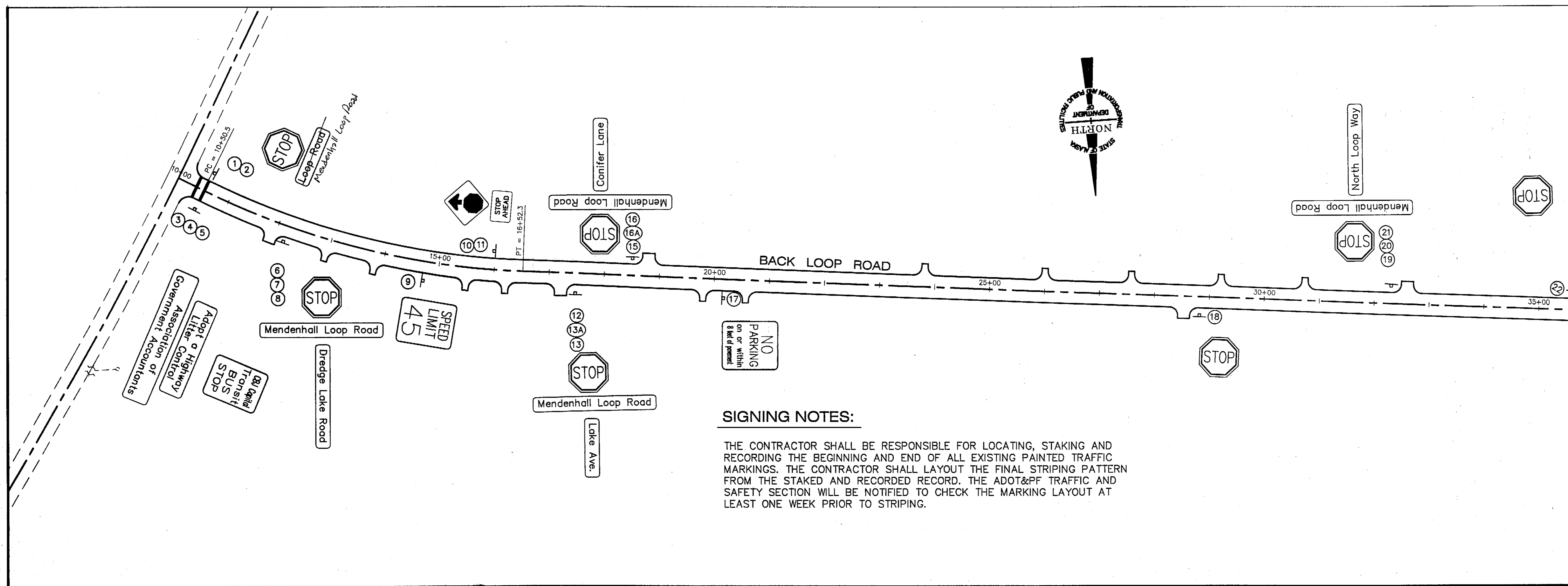
**JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION**

**ESCP Plan  
 and Details**

PROJECT DESIGNATION NUMBER	
68542~IM-0966(23)	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
P1	29

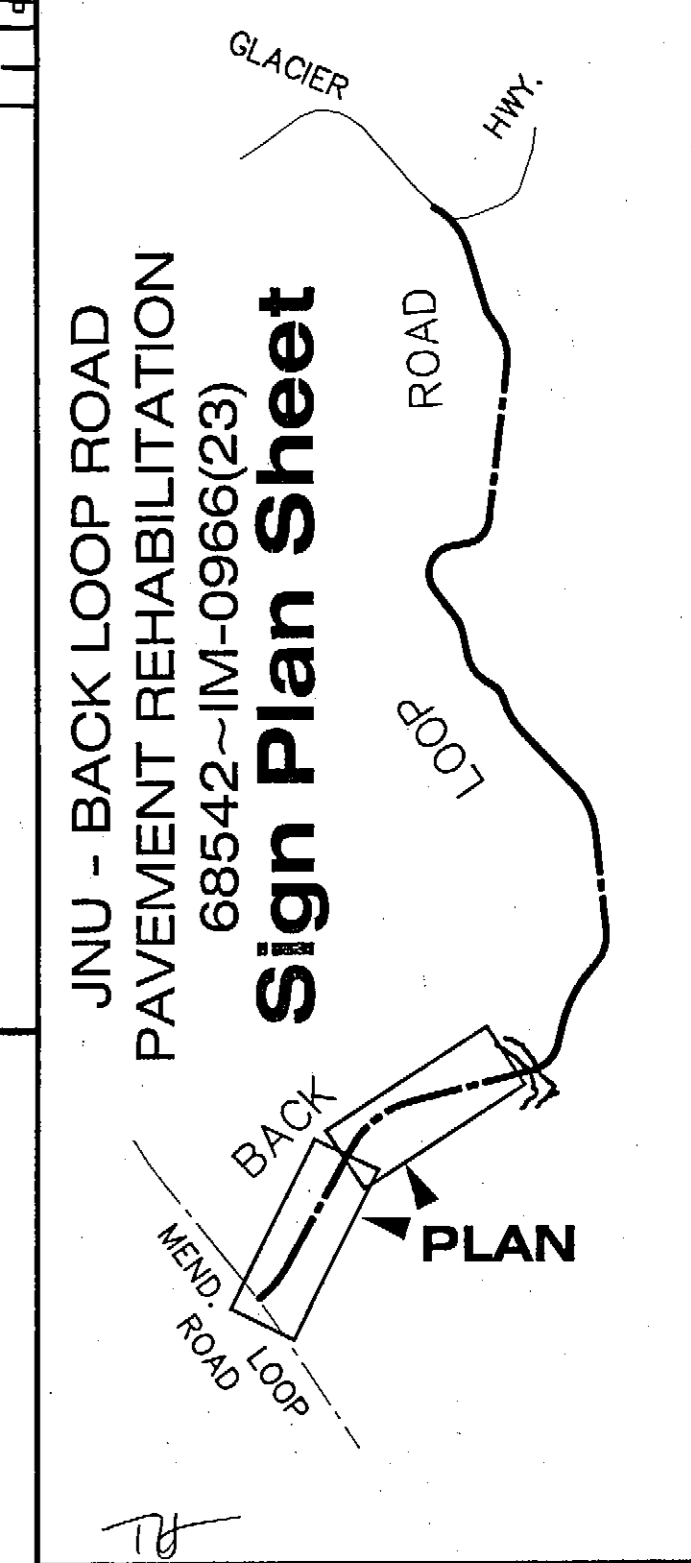
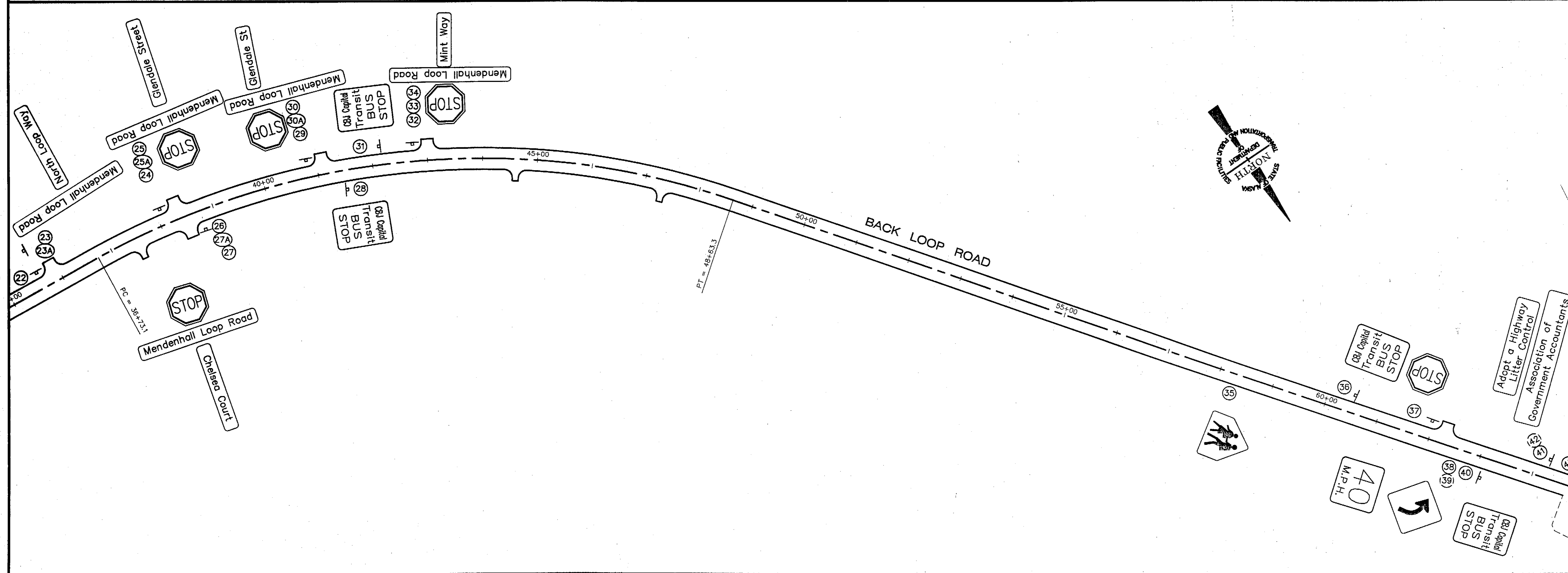
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 TAB: TYPICALS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**SIGNING NOTES:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, STAKING AND RECORDING THE BEGINNING AND END OF ALL EXISTING PAINTED TRAFFIC MARKINGS. THE CONTRACTOR SHALL LAYOUT THE FINAL STRIPING PATTERN FROM THE STAKED AND RECORDED RECORD. THE ADOT&PF TRAFFIC AND SAFETY SECTION WILL BE NOTIFIED TO CHECK THE MARKING LAYOUT AT LEAST ONE WEEK PRIOR TO STRIPING.



DESIGNED BY: R. Purves



CHECKED BY: M. Lukshin  
 DRAWN BY: D. Stevens

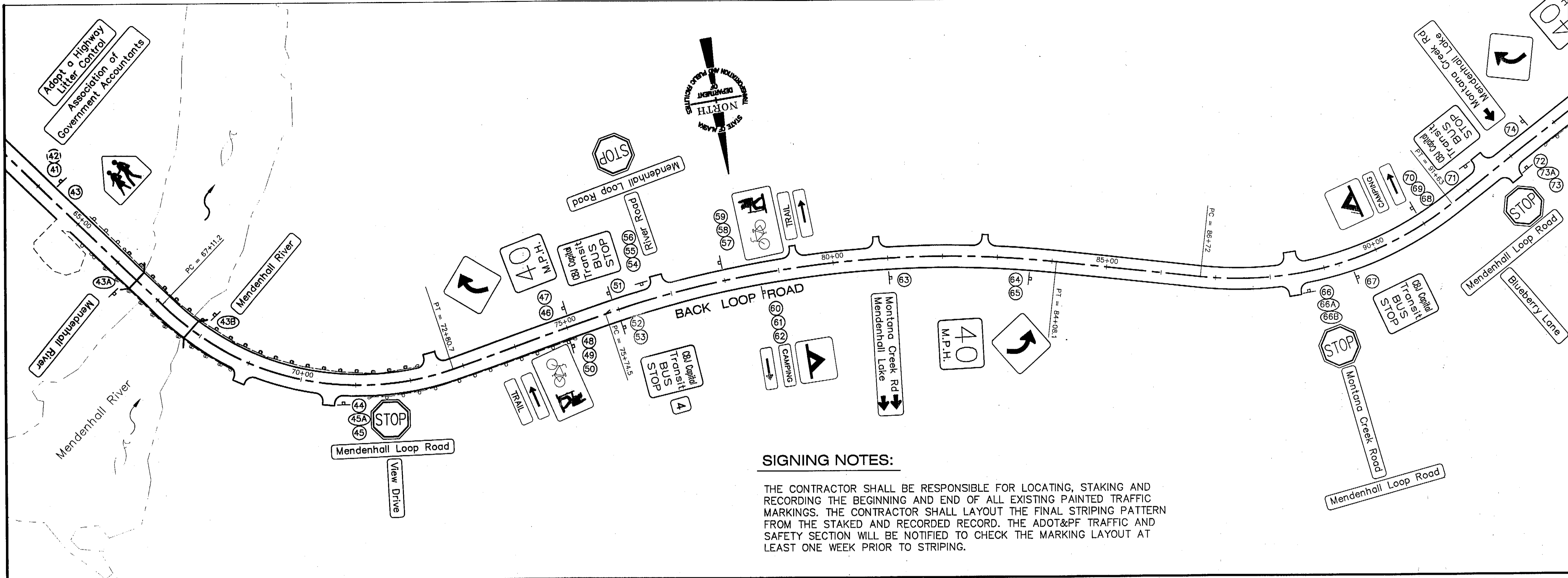
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

**SIGN PLAN SHEET**

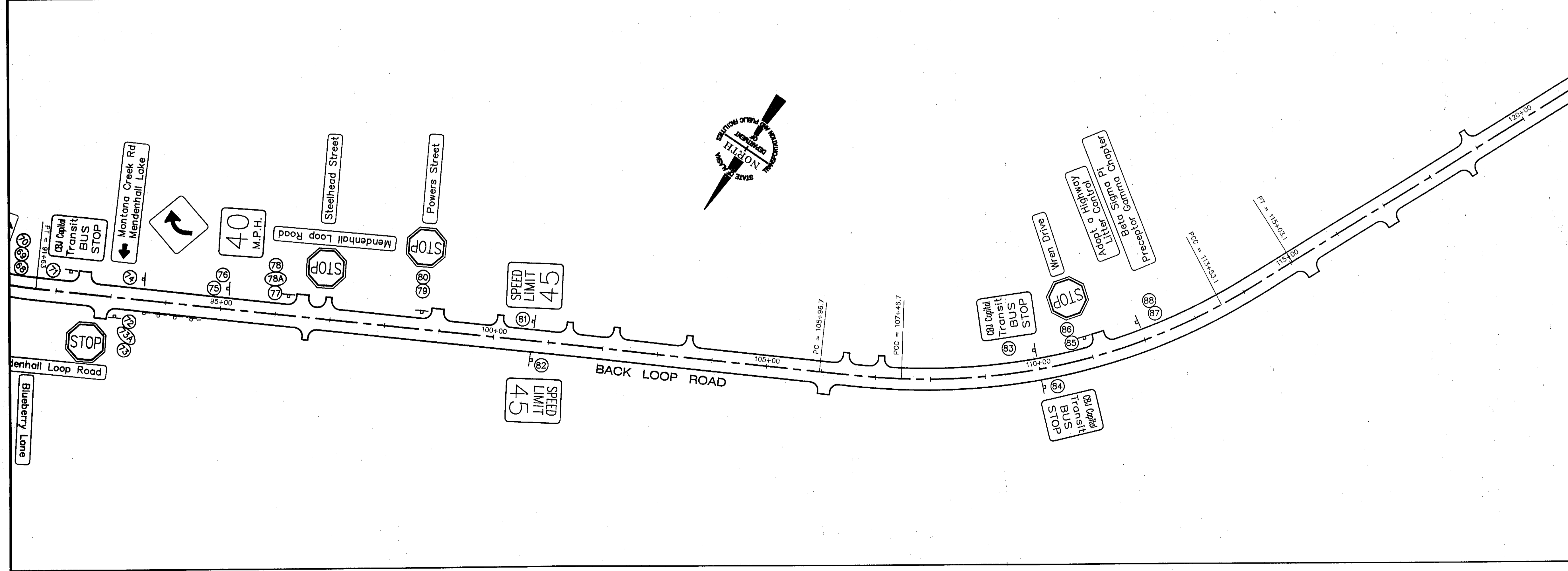
PROJECT DESIGNATION NUMBER  
 68542~IM-0966(23)

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
T1	29



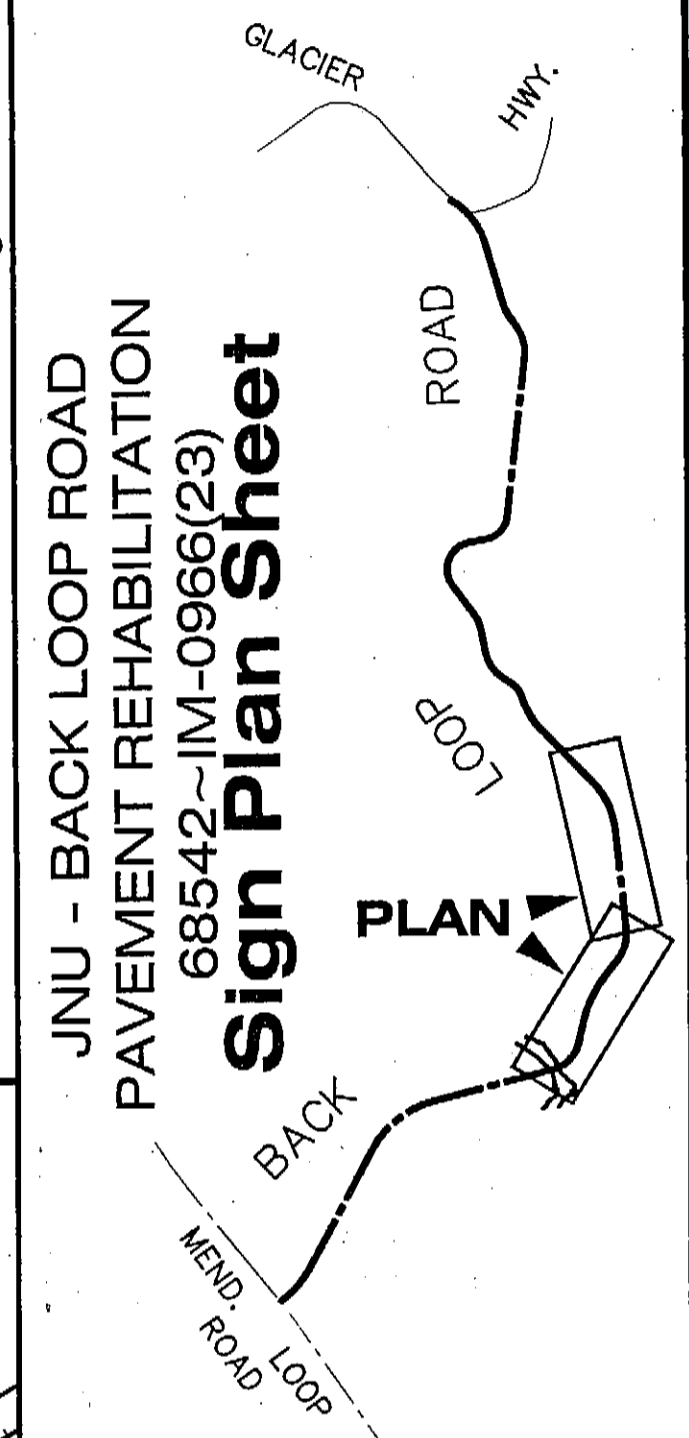
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 TAB: TYPICALS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**LAYOUT PLAN KEY MAP**

DESIGNED BY: R. Purves



CHECKED BY: M. Lukshin

DRAWN BY: D. Stevens

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

**SIGN PLAN SHEET**

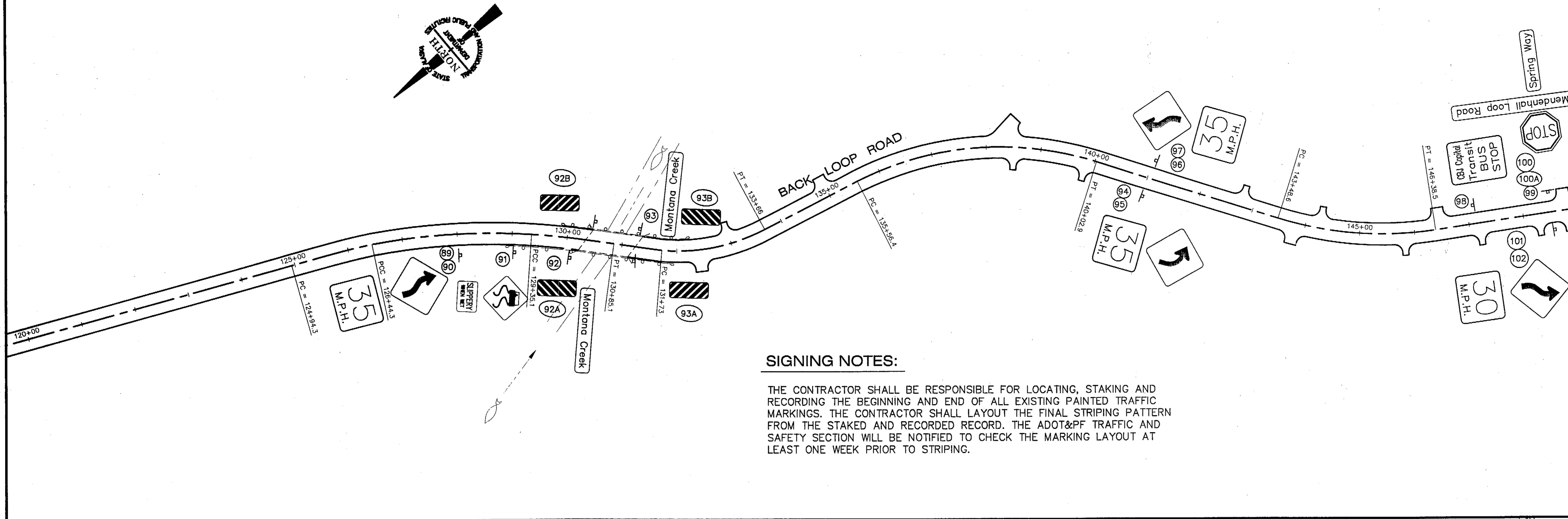
PROJECT DESIGNATION NUMBER

68542~IM-0966(23)

STATE	YEAR
ALASKA	2003

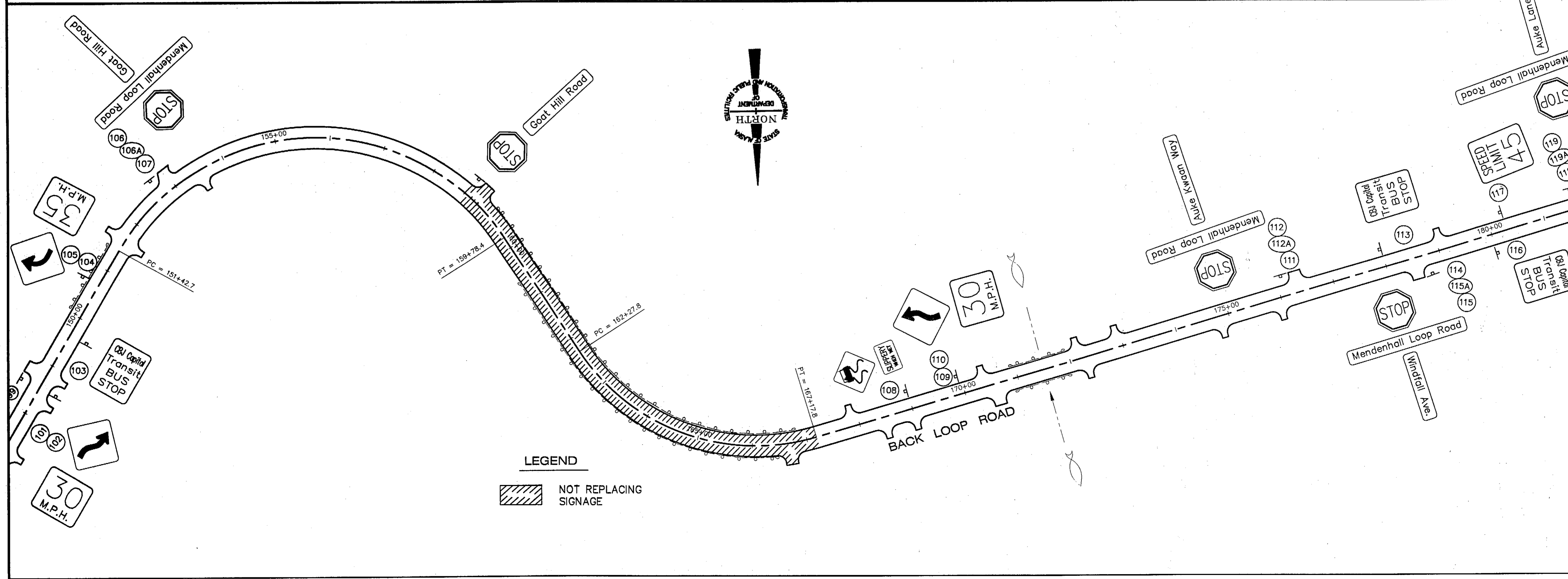
SHEET NUMBER	TOTAL SHEETS
T2	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



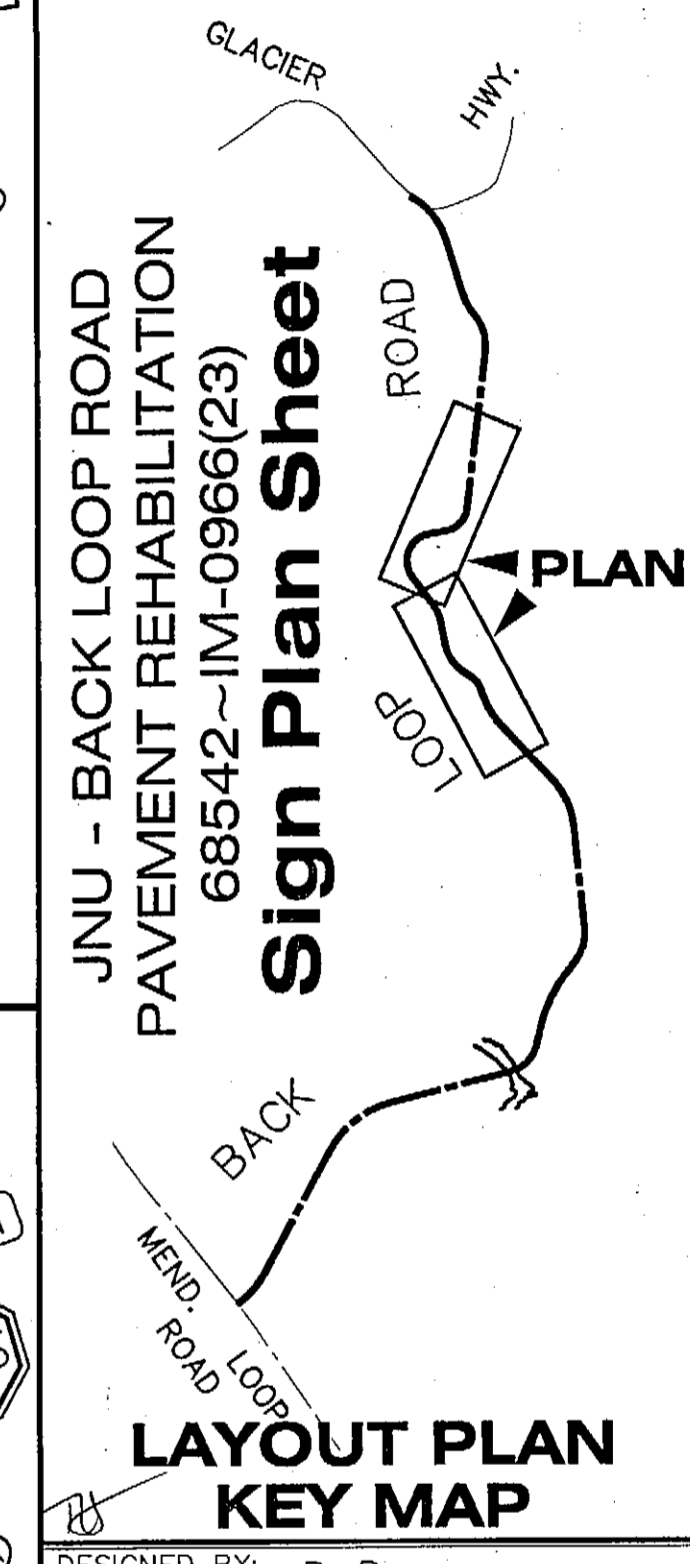
**SIGNING NOTES:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, STAKING AND RECORDING THE BEGINNING AND END OF ALL EXISTING PAINTED TRAFFIC MARKINGS. THE CONTRACTOR SHALL LAYOUT THE FINAL STRIPING PATTERN FROM THE STAKED AND RECORDED RECORD. THE ADOT&PF TRAFFIC AND SAFETY SECTION WILL BE NOTIFIED TO CHECK THE MARKING LAYOUT AT LEAST ONE WEEK PRIOR TO STRIPING.



**LEGEND**

 NOT REPLACING SIGNAGE



DESIGNED BY: R. Purves



CHECKED BY: M. Lukshin  
 DRAWN BY: D. Stevens

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

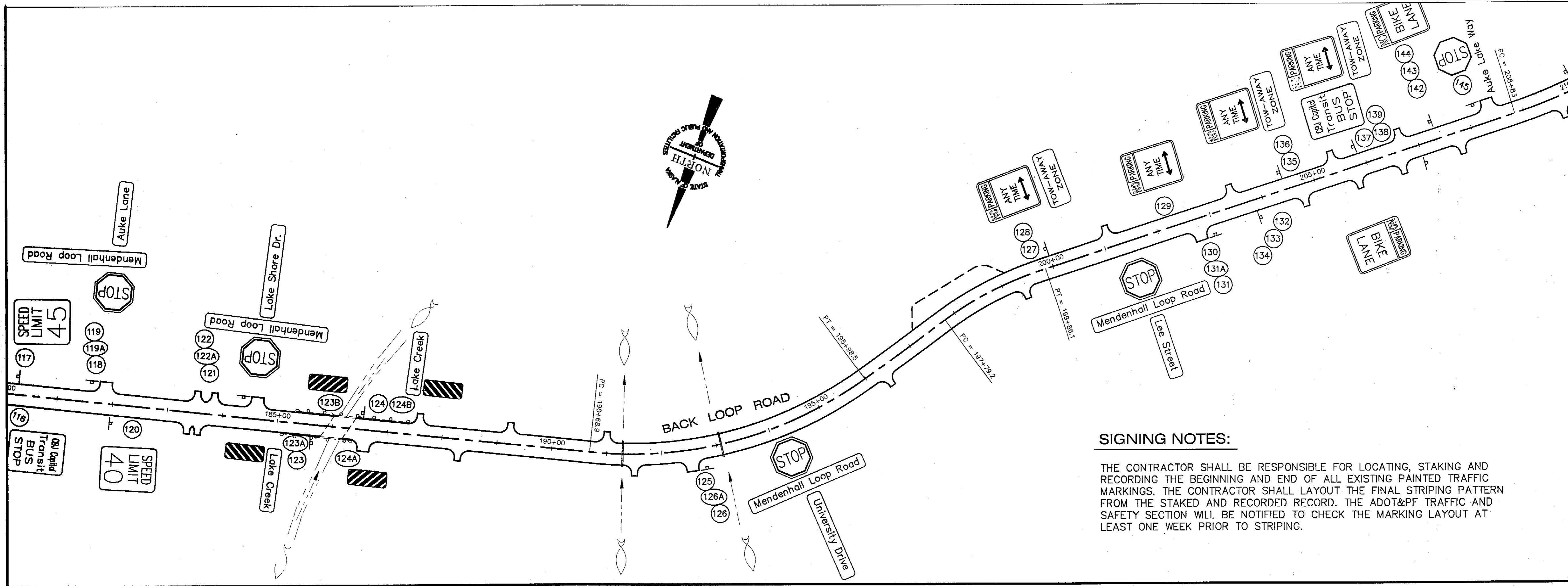
**JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION**

**SIGN PLAN SHEET**

PROJECT DESIGNATION NUMBER  
**68542~IM-0966(23)**

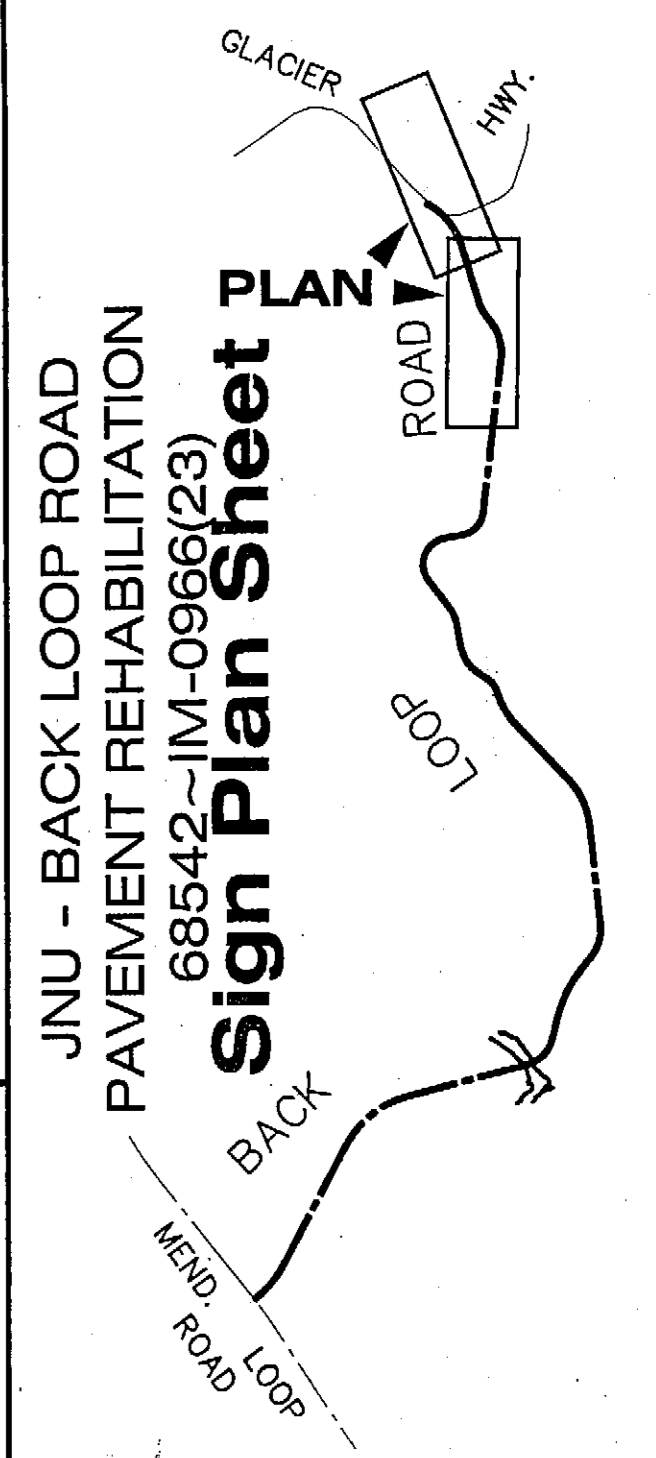
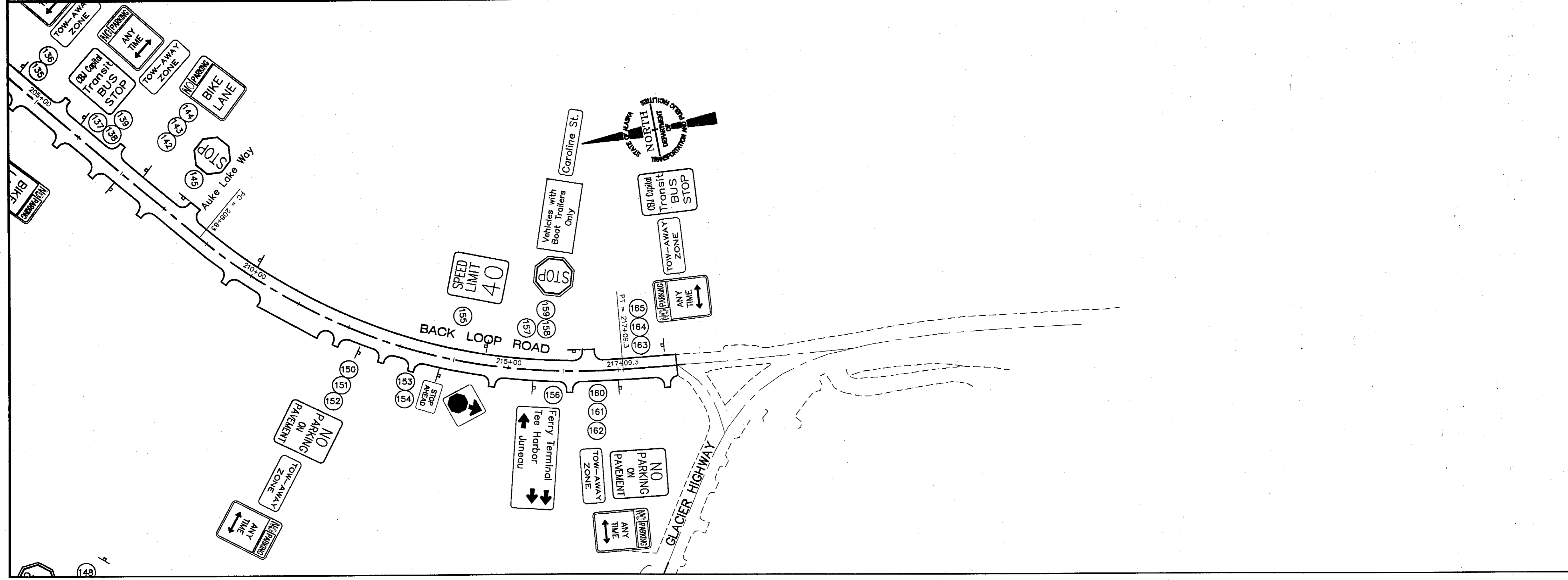
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
T3	29

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**SIGNING NOTES:**

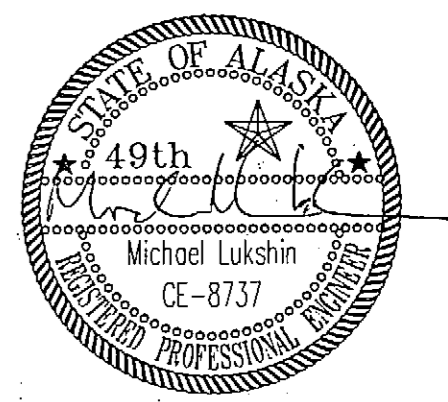
THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, STAKING AND RECORDING THE BEGINNING AND END OF ALL EXISTING PAINTED TRAFFIC MARKINGS. THE CONTRACTOR SHALL LAYOUT THE FINAL STRIPING PATTERN FROM THE STAKED AND RECORDED RECORD. THE ADOT&PF TRAFFIC AND SAFETY SECTION WILL BE NOTIFIED TO CHECK THE MARKING LAYOUT AT LEAST ONE WEEK PRIOR TO STRIPING.



**JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542-IM-0966(23)  
 Sign Plan Sheet**

**LAYOUT PLAN  
 KEY MAP**

DESIGNED BY: R. Purves



CHECKED BY: M. Lukshin  
 DRAWN BY: D. Stevens

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

**JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION**

**SIGN PLAN  
 SHEET**

PROJECT DESIGNATION NUMBER  
**68542-IM-0966(23)**

STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
T4	29

# SIGN SUMMARY

No.	STA.	ROAD FACING	TRAVEL DIREC.	CODE (ASDS)	SIGN DESCRIPTION	SIZE	AREA (S.F.)	No. POST	POST SIZE	POST TYPE	REMARKS
1	10+30	Loop Road	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
2	10+30	Glacier Road	LT	D3-1	LOOP ROAD <del>Mendenhall Loop Road</del>	8x80	3.0	-	-	-	Mount above 1
3	10+77	Loop Road	RT	I-150	Adopt a Highway Litter Control	24x30	6.0	1	2.5x2.5	PT	
4	10+77	Loop Road	RT		Association of Government Accountants						Mount below 3 (reuse existing sign)
5	11+60	Loop Road	RT	Special	CBJ Capital Transit BUS STOP sign			1	2.5x2.5	PT	Reuse existing sign
6	12+13	Dredge Lake Rd	RT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
7	12+13	Dredge Lake Rd	RT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mount above 8
8	12+13	Loop Road	RT	D3-1	DREDGE LAKE Road	8x42	2.3	-	-	-	Mount above 6
9	14+33	Loop Road	RT	R2-1	SPEED LIMIT 45	30x36	7.5	1	2.5x2.5	PT	
11	15+75	Loop Road	LT	W3-1	STOP AHEAD	18x24	3.0	-	-	-	
12	17+46	Lake Avenue	RT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
13	17+46	Loop Road	RT	D3-1	LAKE Ave	8x30	1.7	-	-	-	Mount above 12
13A	17+46	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mount above 13
14	17+97	Loop Road	RT	R8-1	NO PARKING ON PAVEMENT	24x30	5.0	1	2.5x2.5	PT	
15	18+62	Conifer Lane	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
16	18+62	Loop Road	LT	D3-1	CONIFER LANE	8x30	2.0	-	-	-	Mount above 15
16A	18+62	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mount above 16
17	20+31	Loop Road	RT	R8-1	NO PARKING ON PAVEMENT	24x30	5.0	1	2.5x2.5	PT	
18	28+74	Weather Service Rd	RT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
19	32+42	North Loop Way	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
20	32+42	North Loop Way	LT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mounted above 19
21	32+42	Loop Road	LT	D3-1	NORTH LOOP Way	8x42	2.3	-	-	-	Mounted above 20
22	35+71	North Loop Way	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
23	35+71	Loop Road	LT	D3-1	N LOOP WAY	8x42	2.3	-	-	-	Mounted above 22
23A	35+71	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mount above 23
24	38+07	Glendale Street	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
25	38+07	Loop Road	LT	D3-1	GLENDALE STREET	8x42	2.3	-	-	-	Mount above 24
25A	38+08	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mount above 25
26	38+64	Chelsea Court	RT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
27	38+64	Loop Road	RT	D3-1	CHELSEA Court	8x30	2.0	-	-	-	
27A	38+64	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mount above 27
28	40+64	Loop Road	RT	Special	CBJ Capital Transit BUS STOP sign			1	2.5x2.5	PT	Reuse existing sign
29	40+92	Glendale Street	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
30	40+92	Loop Road	LT	D3-1B	GLENDALE ST	8x42	2.3	-	-	-	Mounted above 29
30A	40+92	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mount above 30
31	42+32	Loop Road	LT	Special	CBJ Capital Transit BUS STOP sign			1	2.5x2.5	PT	Reuse existing sign
32	42+87	Mint Way	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
33	42+87	Mint Way	LT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mounted above 32
34	42+87	Loop Road	LT	D3-1	MINT WAY	8x36	2.0	-	-	-	Mounted above 33
35	58+14	Loop Road	RT	S1-1	SCHOOL ADVANCE	36x36	9.0	1	2.5x2.5	PT	See Note #1
36	61+13	Loop Road	LT	Special	CBJ Capital Transit BUS STOP sign			1	2.5x2.5	PT	Reuse existing sign
37	61+95	MRS Access	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
38	62+49	Loop Road	RT	W1-2L	(Left Arrow)	36x36	9.0	1	2.5x2.5	PT	Mounted above 39
39	62+49	Loop Road	RT	W13-1	40 M.P.H	24x24	4.0	-	-	-	
40	62+98	Loop Road	RT	Special	CBJ Capital Transit BUS STOP sign			1	2.5x2.5	PT	Reuse existing sign
41	64+42	Loop Road	LT	I-150	Adopt a Highway Litter Control	24x30	6.0	1	2.5x2.5	PT	
42	64+42	Loop Road	LT	Special	Association of Government Accountants						Mounted below 41 (Reuse existing Sign)
43	65+26	Loop Road	LT	S1-1	SCHOOL ADVANCE	36x36	9.0	1	2.5x2.5	PT	See Note #1
43A	66+50	Loop Road	RT	I-3	Mendenhall River	24x48	8.0	1	2.5x2.5	PT	
43B	67+75	Loop Road	LT	I-3	Mendenhall River	24x48	8.0	1	2.5x2.5	PT	
44	70+82	View Drive	RT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
45	70+82	Loop Road	RT	D3-1	VIEW Dr	8x30	1.3	-	-	-	Mount above 44
45A	70+82	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mount above 45
46	74+76	Loop Road	LT	W1-2R	(Right arrow)	36x36	9.0	-	-	-	
47	74+76	Loop Road	LT	W13-1	40 M.P.H	24x24	4.0	1	2.5x2.5	PT	Mount below 47
48	75+33	Loop Road	RT	Special	(Picture of bicyclist on left, hiker on right)			2	3x3	Wood	Reuse existing sign
49	75+33	Loop Road	RT	Special	(Small left arrow)			-	-	-	Mount below 48 (Reuse existing sign)
50	75+33	Loop Road	RT	Special	TRAIL			-	-	-	Mount below 48 (Reuse existing sign)
51	76+17	Loop Road	LT	Special	CBJ Capital Transit BUS STOP sign			1	2.5x2.5	PT	Reuse existing sign
52	76+24	Loop Road	RT	Special	CBJ Capital Transit BUS STOP sign			1	2.5x2.5	PT	Reuse existing sign
53	76+24	Loop Road	RT	M10-2	4	26x8	0.8	-	-	-	Mount below 52 on both sides
54	76+55	Loop Road	LT	D3-1	RIVER ROAD	8x30	1.3	-	-	-	Mounted above 56
55	76+55	Loop Road	LT	D3-1	MENDENHALL LOOP ROAD	8x80	3.0	-	-	-	Mounted above 54
56	76+55	River Road	LT	R1-1	STOP	30x30	6.3	1	2.5x2.5	PT	
57	78+27	Loop Road	LT	Special	(Picture of bicyclist on left, hiker on right)			2	3x3	Wood	Reuse existing sign
58	78+27	Loop Road	LT	Special	(Small right arrow)			-	-	-	Mount below 57 (Reuse existing sign)
59	78+27	Loop Road	LT	Special	TRAIL			-	-	-	Mount below 57 (Reuse existing sign)
60	78+97	Loop Road	RT	D9-3	(Camping logo)	24x24	4.0	1	2.5x2.5	PT	
61	78+97	Loop Road	RT	D9-3	CAMPING	24x6	1.0	-	-	-	Mount below 60
62	78+97	Loop Road	RT	D9-301	(right arrow)	24x6	1.0	-	-	-	Mount below 61

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

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)

## SIGN SUMMARY SHEET

DESIGNED BY: R. Purves



CHECKED BY: M. Lukshin  
 DRAWN BY: D. Stevens

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION

### SIGN SUMMARY SHEET

PROJECT DESIGNATION NUMBER  
**68542~IM-0966(23)**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
T5	29

# SIGN SUMMARY

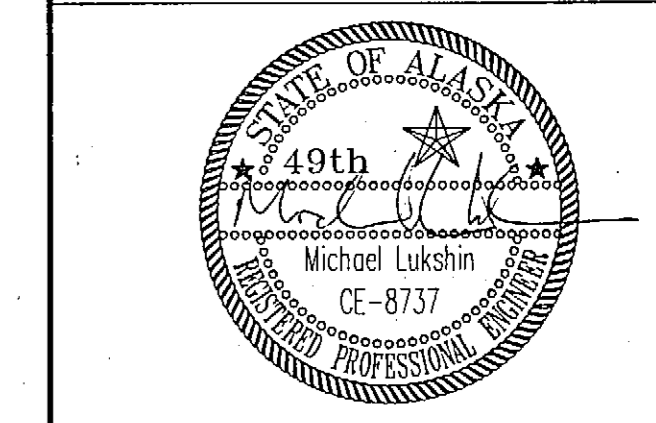
No.	STA.	ROAD FACING	TRAVEL DIREC.	CODE (ASDS)	SIGN DESCRIPTION	SIZE	AREA (S.F.)	No. POST	POST SIZE	POST TYPE	REMARKS	
63	80+90	Loop Road	RT	D1-2	MONTANA CREEK RD MENDENALL LAKE (Right arrow)	24x114	36x36	2	6.5x5	Wood		
64	83+67	Loop Road	RT	W1-2L	(Left arrow)		36x36	9.0	1	2.5x2.5	PT	
65	83+67	Loop Road	RT	W13-1	40 M.P.H		24x24	4.0	-	-	-	
66	88+82	Montana Cr Rd	RT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
66A	88+82	Montana Cr Rd	RT	D3-1	MONTANA CREEK RD.		8x30	3.3	-	-	-	Mount above 66
66B	88+82	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD		8x30	3.3	-	-	-	Mount above 66A
67	89+37	Loop Road	RT	Special	CBJ Capital Transit BUS STOP sign		-	-	1	2.5x2.5	PT	Reuse existing sign
68	91+30	Loop Road	LT	D9-3	(Camping Logo)		24x24	4.0	1	2.5x2.5	PT	
69	91+30	Loop Road	LT	D9-3	CAMPING		24x6	1.0	-	-	-	
70	91+30	Loop Road	LT	D9-301	(left arrow)		24x6	1.0	-	-	-	
71	91+53	Loop Road	LT	Special	CBJ Capital Transit BUS STOP sign		-	-	1	2.5x2.5	PT	Reuse existing sign
72	93+04	Blueberry Lane	RT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
73	93+04	Loop Road	RT	D3-1B	BLUEBERRY LANE		8x42	2.3	-	-	-	Mount above 72
73A	93+04	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD		8x60	3.3	-	-	-	Mount above 73
74	93+36	Loop Road	LT	D1-2	MONTANA CREEK RD (left arrow) MENDENHALL LAKE	24x114	36x36	9.0	2	4.5x3	Wood	Mount above 71
75	94+84	Loop Road	LT	W1-2R	(right arrow)		36x36	9.0	1	2.5x2.5	PT	
76	94+84	Loop Road	LT	W13-1	40 M.P.H		24x24	4.0	-	-	-	Mount below 75
77	96+30	Steelhead Street	LT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
78	96+30	Loop Road	LT	D3-1B	STEELHEAD ST		8x42	2.3	-	-	-	
78A	96+30	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD		8x60	3.3	-	-	-	Mount above 78
79	98+83	Powers Street	LT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
80	98+83	Loop Road	LT	D3-1B	POWERS ST		8x30	1.7	-	-	-	
81	100+73	Loop Road	LT	R2-1	SPEED LIMIT 45		30x36	7.5	1	2.5x2.5	PT	
82	100+78	Loop Road	RT	R2-1	SPEED LIMIT 45		30x36	7.5	1	2.5x2.5	PT	
83	110+49	Loop Road	LT	Special	CBJ Capital Transit BUS STOP sign		-	-	1	2.5x2.5	PT	Reuse existing sign
84	110+76	Loop Road	RT	Special	CBJ Capital Transit BUS STOP sign		-	-	1	2.5x2.5	PT	Reuse existing sign
85	111+00	Wren Drive	LT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
86	111+00	Loop Road	LT	D3-1B	WREN DR		8x30	1.7	-	-	-	
86A	111+00	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD		8x60	3.3	-	-	-	Mount above 86
87	112+12	Loop Road	LT	I-150	Adopt a Highway Litter Control		24x30	5.0	1	2.5x2.5	PT	
88	112+12	Loop Road	LT	Special	Beta Sigma Pi Preceptor Gamma Chapter		-	-	-	-	-	Mount below 87 (reuse existing sign)
89	127+85	Loop Road	RT	W1-4L	Reverse Curve Left		36x36	9.0	1	2.5x2.5	PT	
90	127+85	Loop Road	RT	W13-1	35 M.P.H		24x24	4.0	-	-	-	Mounted below 89
91	129+41	Loop Road	RT	W8-5	(Slipping car sign)		36x36	9.0	1	2.5x2.5	PT	
92	130+27	Loop Road	RT	D3-1B	MONTANA CREEK		24x48	8.0	2	2.5x2.5	PT	
92A	130+27	Loop Road	RT	OM-3R	OBJECT MARKER -- RIGHT		12x36	3.0	-	-	-	
92B	130+27	Loop Road	LT	OM-3L	OBJECT MARKER -- LEFT		12x36	3.0	-	-	-	
93	131+10	Loop Road	LT	D3-1B	MONTANA CREEK		24x48	8.0	2	2.5x2.5	PT	
93A	131+10	Loop Road	RT	OM-3R	OBJECT MARKER -- RIGHT		12x36	3.0	-	-	-	
93B	131+10	Loop Road	LT	OM-3L	OBJECT MARKER -- LEFT		12x36	3.0	-	-	-	
94	140+69	Loop Road	RT	W1-2L	(Left Arrow)		36x36	9.0	1	2.5x2.5	PT	
95	140+69	Loop Road	RT	W13-1	35 M.P.H.		24x24	4.0	-	-	-	Mounted below 94
96	141+41	Loop Road	LT	W1-4L	Reverse Curve Left		36x36	9.0	1	2.5x2.5	PT	
97	141+41	Loop Road	LT	W13-1	35 M.P.H.		24x24	4.0	-	-	-	Mounted below 96
98	148+12	Loop Road	LT	Special	CBJ Capital Transit BUS STOP sign		-	-	1	2.5x2.5	PT	Reuse existing sign
99	148+54	Spring Way	LT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
100	148+54	Loop Road	LT	D3-1B	SPRING WAY		8x30	1.7	-	-	-	
100A	148+54	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD		8x60	3.3	-	-	-	Mount above 100
101	148+54	Loop Road	RT	W1-4R	Reverse Curve Right		36x36	9.0	1	2.5x2.5	PT	
102	148+54	Loop Road	RT	W13-1	30 M.P.H.		24x24	4.0	-	-	-	Mount below 101
103	149+10	Loop Road	RT	Special	CBJ Capital Transit BUS STOP sign		-	-	1	2.5x2.5	PT	Reuse existing sign
104	150+99	Loop Road	LT	W1-2R	(Right Arrow)		36x36	9.0	1	2.5x2.5	PT	
105	150+99	Loop Road	LT	W13-1	35 M.P.H.		24x24	4.0	-	-	-	Mount below 104
106	152+84	Loop Road	LT	D3-1B	GOAT HILL RD		8x42	2.3	-	-	-	Mount above 107
106A	152+84	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD		8x60	3.3	-	-	-	Mount above 106
107	152+84	Goat Hill Road	LT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
108	168+83	Loop Road	LT	W8-5	(Slipping car sign)		36x36	9.0	1	2.5x2.5	PT	
109	169+96	Loop Road	LT	W1-4R	Reverse Curve Right		36x36	9.0	1	2.5x2.5	PT	
110	169+96	Loop Road	LT	W13-1	30 M.P.H.		24x24	4.0	-	-	-	
111	176+22	Auk Kwan Lane	LT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
112	176+22	Loop Road	LT	D3-1	AUK KWAN Lane		8x42	2.3	-	-	-	
112A	176+22	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD		8x60	3.3	-	-	-	Mount above 112
113	178+47	Loop Road	LT	Special	CBJ Capital Transit BUS STOP sign		-	-	1	2.5x2.5	PT	Reuse existing sign
114	178+81	Windfall Avenue	RT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
115	178+81	Loop Road	RT	D3-1	WINDFALL Ave		8x42	2.3	-	-	-	Mounted above 114
115A	178+81	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD		8x60	3.3	-	-	-	Mount above 115
116	179+12	Loop Road	RT	Special	CBJ Capital Transit BUS STOP sign		-	-	1	2.5x2.5	PT	Reuse existing sign
117	181+11	Loop Road	LT	R2-1	SPEED LIMIT 45		30x36	7.5	1	2.5x2.5	PT	
118	181+61	Auke Lane	LT	R1-1	STOP		30x30	6.3	1	2.5x2.5	PT	
119	181+61	Loop Road	LT	D3-1B	AUKE LANE		8x30	1.7	-	-	-	

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ADDENDUM NUMBER		
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RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION  
68542-IM-0966(23)  
**SIGN SUMMARY SHEET**

DESIGNED BY: *TR* R. Purves



CHECKED BY: M. Lukshin  
DRAWN BY: D. Stevens

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

JNU - BACK LOOP ROAD  
PAVEMENT REHABILITATION

## SIGN SUMMARY SHEET

PROJECT DESIGNATION NUMBER  
**68542-IM-0966(23)**

STATE	YEAR
<b>ALASKA</b>	<b>2003</b>
SHEET NUMBER	TOTAL SHEETS
<b>T6</b>	<b>29</b>

# SIGN SUMMARY

No.	STA.	ROAD FACING	TRAVEL DIREC.	CODE (ASDS)	SIGN DESCRIPTION	SIZE	AREA (S.F.)	No. POST	POST SIZE	POST TYPE	REMARKS
119A	181+61	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x40 3.30		-	-	-	Mount above 119
120	182+12	Loop Road	RT	R2-1	SPEED LIMIT 40	30x36 7.5		1	2.5x2.5	PT	
121	184+43	Lake Shore Drive	LT	R1-1	STOP	30x30 6.3		1	2.5x2.5	PT	
122	184+43	Loop Road	LT	D3-1B	LAKE SHORE DR	8x40 3.30		-	-	-	Mounted above 121
122A	184+43	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x40 3.30		-	-	-	Mount above 122
123	185+80	Loop Road	RT	D3-1B	LAKE CREEK	24x36 6.0		2	2.5x2.5	PT	
123A	185+80	Loop Road	RT	OM-3R	OBJECT MARKER - RIGHT	12x36 3.0		-	-	-	
123B	186+00	Loop Road	LT	OM-3L	OBJECT MARKER - LEFT	12x36 3.0		-	-	-	
124A	186+20	Loop Road	RT	OM-3R	OBJECT MARKER - RIGHT	12x36 3.0		-	-	-	
124	186+40	Loop Road	LT	D3-1B	LAKE CREEK	24x36 6.0		2	2.5x2.5	PT	
123B	186+40	Loop Road	LT	OM-3L	OBJECT MARKER - LEFT	12x36 3.0		-	-	-	
125	192+84	University Drive	RT	R1-1	STOP	30x30 6.3		1	2.5x2.5	PT	
126	192+84	Loop Road	RT	D3-1B	UNIVERSITY DRIVE	8x40 3.30		-	-	-	Mounted above 125
126A	192+84	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x40 3.30		-	-	-	Mount above 126
127	200+17	Loop Road	LT	R7-101RL	NO PARKING ANY TIME	12x18 1.5		1	2.5x2.5	PT	
128	200+17	Loop Road	LT	R7-201	TOW-AWAY ZONE	12x6 0.5		-	-	-	Mount below 127
129	202+31	Loop Road	LT	R7-101RL	NO PARKING ANY TIME	12x18 1.5		1	2.5x2.5	PT	
130	203+06	Lee Street	RT	R1-1	STOP	30x30 6.3		1	2.5x2.5	PT	
131	203+06	Loop Road	RT	D3-1B	LEE STREET	8x40 3.30		-	-	-	
131A	203+06	Loop Road	RT	D3-1	MENDENHALL LOOP ROAD	8x40 3.30		-	-	-	Mount above 131
132	203+77	Loop Road	RT	R7-9	NO PARKING BIKE LANE	12x18 1.5		1	2.5x2.5	PT	
133	-	-	-	-	-	-		-	-	-	-
134	-	-	-	-	-	-		-	-	-	-
135	204+73	Loop Road	LT	R7-101RL	NO PARKING ANY TIME	12x18 1.5		1	2.5x2.5	PT	
136	204+73	Loop Road	LT	R7-201	TOW-AWAY ZONE	12x6 0.5		-	-	-	Mounted below 135
137	206+24	Loop Road	LT	Special	CBJ Capital Transit BUS STOP sign	12x18 1.5		1	2.5x2.5	PT	
138	206+44	Loop Road	LT	R7-101RL	NO PARKING ANY TIME	12x18 1.5		1	2.5x2.5	PT	
139	206+44	Loop Road	LT	R7-201	TOW-AWAY ZONE	12x6 0.5		-	-	-	Mount below 138
140	-	-	-	-	-	-		-	-	-	-
141	-	-	-	-	-	-		-	-	-	-
142	-	-	-	-	-	-		-	-	-	-
143	-	-	-	-	-	-		-	-	-	-
144	207+90	Loop Road	LT	R7-9	NO PARKING BIKE LANE	12x18 1.5		1	2.5x2.5	PT	
145	208+26	Auke Lake Way	LT	R1-1	STOP	30x30 6.3		1	2.5x2.5	PT	
146	-	-	-	-	-	-		-	-	-	-
147	-	-	-	-	-	-		-	-	-	-
148	-	-	-	-	-	-		-	-	-	-
149	-	-	-	-	-	-		-	-	-	-
150	211+74	Loop Road	RT	R8-1	NO PARKING ON PAVEMENT	24x30 5.0		1	2.5x2.5	PT	
151	211+74	Loop Road	RT	R7-201	TOW-AWAY ZONE	12x6 0.5		-	-	-	Mount below 150
152	211+74	Bike Path	RT	R7-101RL	NO PARKING ANY TIME	12x18 1.5		-	-	-	Mount below 151
153	213+18	Loop Road	RT	W3-1A	(Arrow and stop symbol)	36x36 9.0		1	2.5x2.5	PT	
154	213+18	Loop Road	RT	W3-1	STOP AHEAD	18x24 3.0		-	-	-	Mount below 153
155	215+64	Loop Road	LT	R2-1	SPEED LIMIT 40	30x36 7.5		1	2.5x2.5	PT	
156	215+97	Loop Road	RT	D1-2	FERRY TERMINAL TEE HARBOR (right arrow) (left arrow) JUNEAU			2	2.5x2.5	PT	Reuse existing sign
157	216+27	Loop Road	LT	Special	Vehicles with Boat Trailers Only			1	2.5x2.5	PT	Reuse existing sign
158	216+33	Caroline Street	LT	R1-1	STOP	30x30 6.3		1	2.5x2.5	PT	
159	216+33	Loop Road	LT	D3-1B	CAROLINE ST	8x40 3.30		-	-	-	Mount above 158
160	216+56	Loop Road	RT	R8-1	NO PARKING ON PAVEMENT	24x30 5.0		1	2.5x2.5	PT	
161	216+56	Loop Road	RT	R7-201	TOW-AWAY ZONE	12x6 0.5		-	-	-	Mount below 160
162	216+56	Bike Path	RT	R7-101RL	NO PARKING ANY TIME	12x18 1.5		-	-	-	Mount below 161
163	217+33	Loop Road	LT	R7-101RL	NO PARKING ANY TIME	12x18 1.5		1	2.5x2.5	PT	
164	217+33	Bike Path	LT	R7-201	TOW-AWAY ZONE	12x6 0.5		-	-	-	Mount below 163
165	217+33	Bike Path	LT	Special	CBJ Capital Transit BUS STOP sign			1	2.5x2.5	PT	Reuse existing sign

**NOTES:**

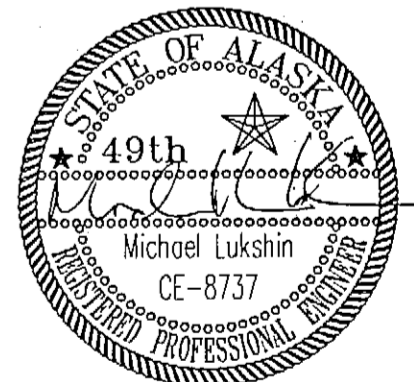
- SCHOOL ADVANCE SIGNS SHALL BE FLUORESCENT YELLOW IN COLOR.

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 PSPACE 1=1(F) OR MSPACE 1=1(F)  
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**JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION  
 68542~IM-0966(23)  
 SIGN SUMMARY SHEET**

DESIGNED BY: *TR* R. Purves



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**JNU - BACK LOOP ROAD  
 PAVEMENT REHABILITATION**

**SIGN SUMMARY SHEET**

PROJECT DESIGNATION NUMBER	
68542~IM-0966(23)	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
T7	29