

DESIGN DESIGNATION

ADT(1990) = 454 ADT (2010) = 611 DHV(12%) = 73

= 7% T. 1. = 6.5 = 35 M.P.H.

PROJECT SUMMARY

WIDTH OF SURFACING 22'+024'

LENGTH OF GRADING 25,123.15' -4.76 MI. 25497.57 - 4.83 LENGTH OF SURFACING 25,123.15'-4.76 Mt. 25497.57 - 4.83

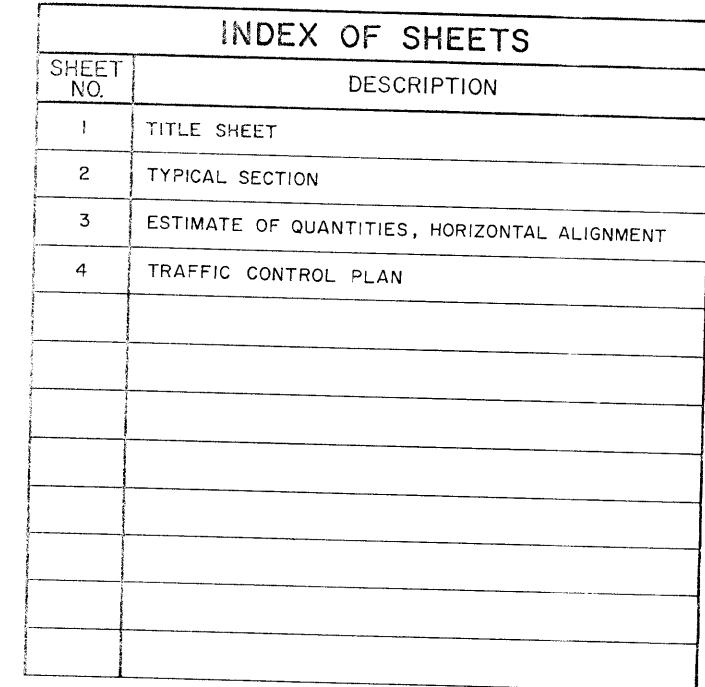
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND

PUBLIC FACILITIES SOUTHEASTERN REGION DESIGN AND CONSTRUCTION DIVISION



PROPOSED HIGHWAY PROJECT RS-0991 (5) 70244 HAINES LUTAK ROAD

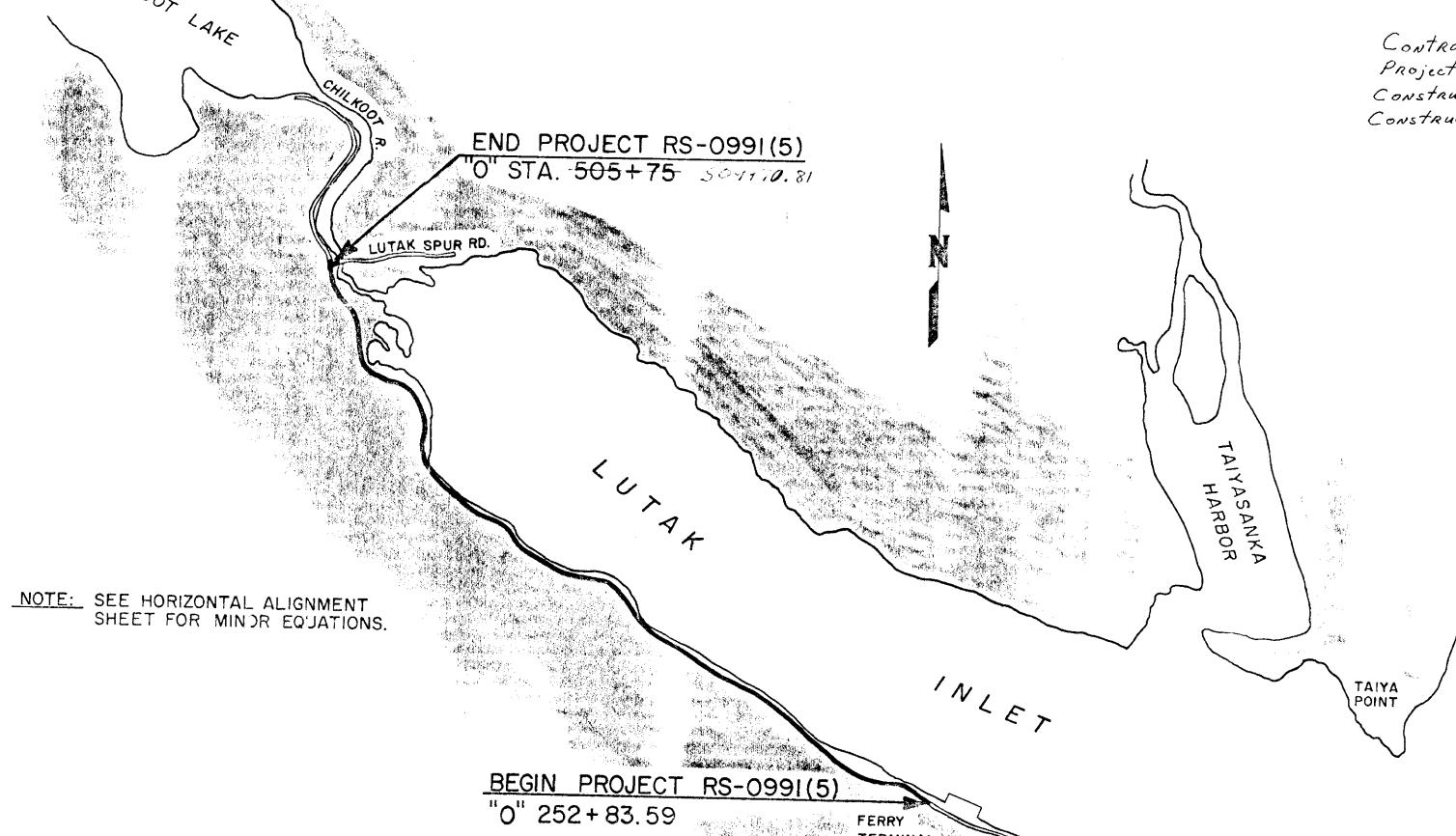
GRADING & SURFACING



THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT: A-1,C-01.03,C-02.01,C-03.01,I-40.00,I-81.00,M-13.01 M-16.01,T-20.00,& T-21.01

As-Built Plans

Contractor - Northern Timber Corporation Project Engineer-CLiff Douglas Construction Begin- April 1991 Construction End - July 1991



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION PUBLIC FACILITIES

SOUTHEASTERN REGION DESIGN SECTION

APPROVED

Date 7/30/90

APPROVED

E. V. Darnell Director, S.E. Region Design & Construction

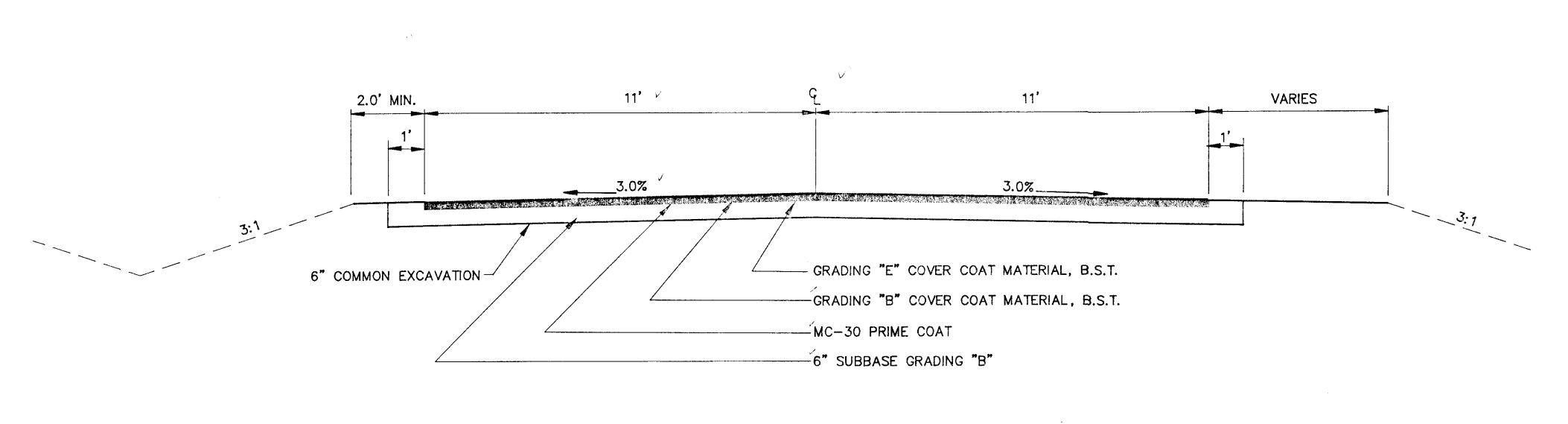
PROJECT NUMBER: RS-0991(5) 70244 DATE 10/90

ENGINEER'S STAMP *. 49ш 🔭 P. Bednerowicz CE-5104

- 1. HORIZONTAL ALIGNMENT SHOWN ON THE PLANS
- 2. LEFT SHOULDER WIDTH SHALL TRANSITION BETWEEN STA. 285+15 AND STA. 287+15 AND BETWEEN
- 3. ENDING STATION FOR COMMON EXCAVATION IS
- 4. IT IS THE INTENT OF THIS CONTRACT TO MAINTAIN THE $^{\prime\prime}$ SHOULDER OFFSETS SHOWN ON THE LEFT SIDE OF THE TYPICAL SECTIONS. THIS MAY REQUIRE ADJUSTMENT

GENERAL NOTES

- IS SUBJECT TO MINOR REVISIONS.
- STA. 352+33 AND STA. 354+33, AS SHOWN.
- 352+33. BEGIN RECONDITIONING AT STA. 352+33.
- OF THE HORIZONTAL ALIGNMENT.



BASIS OF ESTIMATE estimating factor SUBBASE GRADING "B" 2.09 TONS/C.Y.

MC-30 LIQUID ASPHALT FOR PRIME COAT 0.25 GAL/SY 253 GAL/TON

CRS-2 ASPHALT FOR SURFACE TREATMENT 1.03 GAL/SY 241 GAL/TON

GRADING B COVER COAT FOR SURFACE TREATMENT 48LB/SY

GRADING E COVER COAT FOR SURFACE TREATMENT 28LB/SY 304(1) 403(1) 405(1) 405(2B) 405(2E)

STA. 354+33 TO-505+75 509+70.81

HAINES

DESCRIPTION OF CHANGE: STATE OF ALASKA CHANGED TYPICAL STA. 354+33 TO 505+75. DELETED RECONDITIONING AND ADDED SUBBASE. 11/5/90 DEPARTMENT OF TRANSPORTATION PB/CSA AND PUBLIC FACILITIES SOUTHEAST REGION DESIGN & CONSTRUCTION OF REVISIONS RECORD

6.0' MIN.

6" COMMON EXCAVATION-

4.0 MIN.

6" COMMON EXCAVATION-

HAINES LUTAK ROAD SURFACING PROJECT NO. 70244 TYPICAL SECTIONS

VARIES

* Sta 253100 to 260+50"

VARIES

* Sta. 287+70 to 301+20 \$

Sta 322+70 to 346+00

- GRADING "E" COVER COAT MATERIAL (BITUMINOUS SURFACE TREATMENT) B.S.T.

- GRADING "B" COVER COAT MATERIAL, B.S.T.

- GRADING "E" COVER COAT MATERIAL, B.S.T.

- GRADING "B" COVER COAT MATERIAL, B.S.T.

11'

-VMC-30 PRIME COAT

- MC-30 PRIME COAT

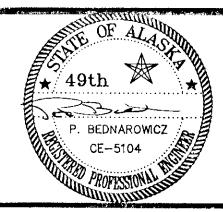
STA. 287+15 TO 352+33

- 6" SUBBASE GRADING "B"

STA. 252+83.59 TO STA. 285+15

- 6" SUBBASE GRADING "B"

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS DESIGNED BY: PROJECT NO. ALASKA 70244 F. MURPHY DRAWN BY: DATE: AUTOCADD/CSA 10/90 CHECKED BY: SHEET 2 OF



	ESTIMATE OF QUANTITIES	4 3	
ITEM NO.	TIEM	UNIT	QUANTITY
109(1)	PETROLEUM ADJUSTMENT	C.S.	ALL REQUIRED
120(1)	DBE ADJUSTMENT	C.S.	ALL REQUIRED
203(1A)	COMMON EXCAVATION	S.Y.	-66,384-68624
304(1)	SUBBASE, GRADING "B"	TON	-23,124 25c19
403(1)	MC-30 LIQUID ASPHALT FOR PRIME COAT	TON	61.00 52.08
405(1)	CRS-2 ASPHALT FOR SURFACE TREATMENT	TON	-263 .00 <i>333.75</i>
405(2B)	GRADING "B", COVER COAT MATERIAL FOR ASPHALT SURFACE TREATMENT	TON	-1,475.00 1600
405(2E)	GRADING "E", COVER COAT MATERIAL FOR ASPHALT SURFACE TREATMENT	TON	860.00 1067
614(1)	SURVEY MONUMENTS	EACH	4.00
614(2)	MONUMENT CASES	EACH	4.00
614(3)	ADJUST EXISTING MONUMENTS AND CASES	EACH	1.00
640(1)	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQUIRED
		Sta.	14, Sta. 252+83\$ to
203(11)	Direct to contract to	F+.	715ta. 351t 832 5ta 310190 to 750 318+40
606(S)	Removal and Disposal of Guardrail (C.O. # Z) CONSTRUCTION SURVEYING	L.S.	ALL REQUIRED
642(1)	THREE PERSON SURVEY PARTY	HOUR	8.00 3.00
642(2)	INKEL PERSON SORVET PARTI		
643(2)	TRAFFIC MAINTENANCE	L.S.	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNING	EA/DAY	360.00 455
643(4)	CONSTRUCTION SIGN	<u>EA/DAY</u>	500.00 393
643(5)	TYPE II BARRICADE	EA/DAY	360.00 33
643(7)	TRAFFIC CONE	EA/DAY	1, 200.00 <i>249</i>
643(13)	TEMPORARY PAVEMENT MARKING	STATION	252 .00 255.2
643(15)	FLAGGING	HOUR	- 400.00- 623. <i>5</i>
040(10)	LACOINO		
670(1)	PAINTED TRAFFIC MARKINGS	L.S.	ALL REQUIRED
0/0(1)			

HORIZONTAL CONTROL

THE BASIS OF BEARING IS THE BEARING OF N. 41'45'03"W. BETWEEN THE CENTERLINE MONUMENT AT APPROXIMATE & STATION 348+62 AND THE D.O.T./P.F. CONTROL MONUMENT "ZOD" (1.5" CAP ON #5 REBAR.)

PROJECT COORDINATES ARE: N. 30318.35 AND E. 41650.714 FOR THE CENTERLINE MONUMENT AT APPROXIMATE STATION 348+62.

VERTICAL CONTROL

THE BASIS OF VERTICAL CONTROL IS THE ELEVATION OF 30.6 AT THE END OF THE EXISTING PAVEMENT.

Survey 1	Monuments
Station	Offset
266+51.51	12.89' Rt. of &
* 348+00.80	0.02' Lt. of &
361+79.14	16.77' Lt. of £
492+39.20	13.92' Rt. of €
496+70.39	12.59' Lt. of t

* See attached

ATTAC

STATIO.

BEGIN PROJEC

252+83.59 M

259+22.10 P

263+75.02 P

275+60.52 P

280+46.69 P

286+03.10 P

296+93.30 F

303+79,82 P

319+89.78 P

323+83.61 P

332+82.91 P

336+71.62 P

342+15.02

346+53.37

348+04.61 M(

350+61.61 P 351+76.13

352+53.29

355+69.62 P

361+81.69 P 368+59.05 F

373+29.53

374+29.57 P 374+52.00 E

377+29.73 F

381+10.03 P

38<u>2+30.40 F</u>

382+30.40 E

391+01.53 P 395+95.46 P 399+56.76 P

402+94.57 F

410+82.61 P

415+78.67 P

421+91.09 P

431+24.34 P

435+42.13 F 442+83.93 F 449+84.31 F

450+84.30 F 451+77.97 E

458+15.88 F

464_45.96 F 465+90.24 F

465+90.24 [

469+58.65

477+82.00 F 487+57.95 F 492+41.21 F

496+58.92 504+39.00 I

505 + 75

Horizontal alignment

258+39.48 PI 4-06-43.8 pt.

263+78.53 PI 14-53-43.8 14

275+42.19 PI 9-49-49.4 Rt.

280+53.08 PI 22-11-47.6 Lt.

285+27.10 PI 24-29-32.7 rt.

288+80.25PI 5-42-20.1nt

295+35.13PI 4-52-45.1nt

298+67.15PI 4-32-42.5H

319+77.19PI 20-23-15.1L+

335+43,05 PI 4-15-46,0L+

355+69.49 P.I. 10-25-57.9 Rt

361+81.64 PI 23-49-23.4nt

368+59.21 PI 38-11-48.6 Lt

391+02.01 PI 3-48-07.6 rt

395+95.96PI 12-07-26.5 Rt

399+57.33 PI 18-48-55.8 L+

402+95.15PI 21-50-11.4 nt

410+83,26PI 25-32-35,3 nt.

415+79.00 PI 46-44-17.0 Lt.

421+91.06PI 12-08-25.1 Rt.

431+24.28 PI 16-56-56.1 Rt.

435+42.07PI 8-29-43.3 Lt.

442+84.39PI 56-37-03.7R+ 8° 00'

449+84.19PI 4-51-44.4 H 2° 26'

458+16.07 PI 40-34-42.54 7° 45'

464+46.02PI 26-26-42.4 Lt. 8° 59'

469+58.93PI 14-18-36.2Lt 7º00'

477+82.38 PI 73-15-01.8 Rt. 110 14'

508+50.268I 78-55-36.1 Rt 31°-18'

487+58.14 PI 12-13-23.0 H

492+41.41 PI 21-11-34.0 Lt.

496+71.88PI 18-06-51.6 Rt.

500+77.82 PI 1-47-56.0L+

504+24.69PI 24-27-00 Rt

505+46.32PI 5-41-00 Rt.

450+83,70 PT BK .= 451+77.97 EQUATION AHD.

323+73.88PI

303+71.71 PI 2-44-54.6 H 0°49'

333+56.74PI 6-19-19.0 RT 2° 24'

342+22.63 PI 10-15-44.7 Rt 2° 52'

346+33.52 PI 23-44-39,5 Lt. 10° 26'

350+30.69 PI 15-14-57.2 rt 7° 30'

373+38,53PI 5-23-53.64+ 2° 35'

377+29.93 PI 19-02-23,4L+. 7° 45

381 +09.53PI 16-56-14.6R+ 7° 00'

7-13-06.7 Rt

348+00.80 mpnument 0.02' Lt. of tangent Line.

35/+72.26 P.O.T. BK = 352 +53.29 Equation AHD.

374+38.42 P.T. BK = 374+52,00 EQUATION AHO.

382+29,62 PT. BK = 382+30.39 EQUATION AHD.

10 141

4°52′

3°-01′

60-491

8°-201

3 28

4° 16'

7°30′

8000

1°45′

6°02'

10° 45'

100-001

10°45'

6° 03'

8° 26'

4° 15'

6°05'

7°00'

7000

0° 45'

120-00'

70-03'

10 341

167.18

153,64

163,10

164.68

149.15

180.72

70.45

126.05

166.75

145.75

111.09

131,84

50.00

179.12

115.46

104.62

247.98

100,04

123,98

121,87

108.34

100.64

102,63

102,81

129.87

230,30

100.71

101.23

100.13

3 85,78

99.63

273.32

149,58

102,75

379.11

100.71

164.90

140.51

119.94

103.45

40.32

150,55

161.15

334.21

305.5*5*

325.40

325,24

293.73

361.14

140.81

251.97

333,43

288.41

221.89

263.41

99.95

3*5*7.28

227.60

263,33

208.66

317.64

477,46

245,68

241.96

216.61

200.54

203.41

203,/3

255,43

434.77

200.67

200.98

199.89

707.72

199.14

523.59

293.83

204.43

652.02

200.65

326.04

278,68

239,85

203,75

80.57

251.91

85.0

0.53

0.32

0.21

0.48

0.26

0.37

0.52

0.52

0.40

0.51

0.25

0.48

0.16

0.12

0.32

0.16

0.51

0.28

0.16

· **0.12**

0.28

0.52

0.53

0.40

0.48

0.50

0.48

0.17 0.44

0.56

0.53

0.37

0.51

0.26

0.45

0.53

0.48 0.57 0.44

0.26

0.45

0.40

Station

Begin Project 252+83.59

ALASKA DESIGNED BY: F. MURPHY DRAWN BY: DATE: AUTOCADD/CSA

509+70.81 P.O.T. & E. O.P. Bayinning of Chilkoot River Bridge

PROJECT NO. 70244 10/90 CHECKED BY: SHEET 3 OF 4 P.JONES

₹/49th P. HEDNAROWCZ CE-5104

*	Ex	isting	Monument	

HAINES

	DATE:	DESCRIPTION OF CHANGE:	STATE OF ALASKA
B/CSA	11/5/90	ADDED 109(1), DELETED 303(1), INCREASED 304(1) & 203(IA)	DEPARTMENT OF TRANSPORTATION
	•		AND PUBLIC FACILITIES

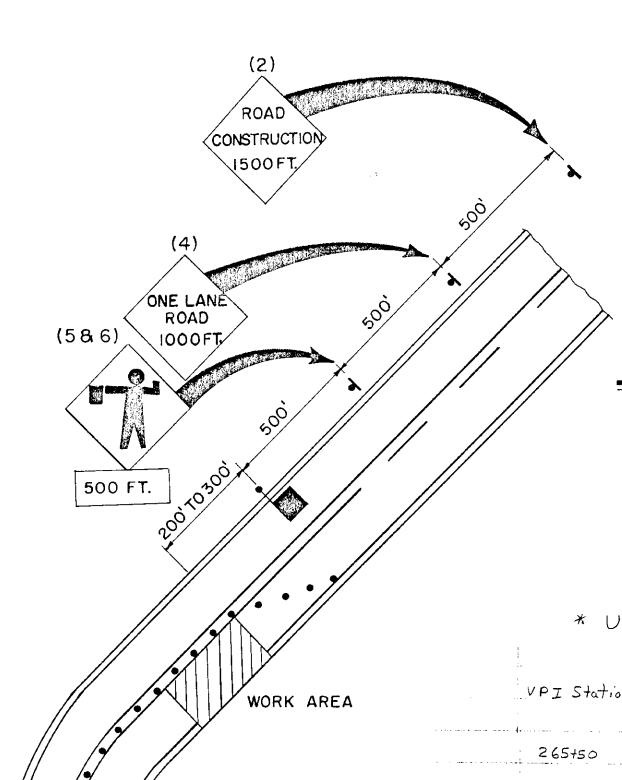
HAINES LUTAK ROAD SURFACING PROJ. NO. 70244

HORIZONTAL ALIGNMENT SUMMARY

REVISIONS RECORD

grander of the first of the same

SOUTHEAST REGION DESIGN & CONSTRUCTION



(586)

370+00

373425

378+00

-GENERAL NOTES-

- I. IF ENTIRE WORK AREA IS VISABLE FROM ONE STATION, SINGLE FLAGGER MAY BE USED.
- WARNING LIGHTS SHOULD BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS NEEDED.
- 3. CHANNELING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

	Lutak	Road	
*	Vertical	Cunve	Information

	1	Top of Seal Co	at		
	VPI Station	Elev.	Length of V.	C % in	% out
	265+50	30.70	300'	0.00	41.189
• •	275+00	42.00	200'	+1.189	† 1.150
	279+00	46.60	200'	+1.150	+ 1.371
	286+00	56,20	200'	+1.37/	+ 2,200
	290+00	65.00	200'	+ 2,200	+ 1.050
	293400	68.15	200'	+1.050	- 0.983
	296400	65.20	200'	-0.983	- 1.300
· • · • · · · · · · · · · · · · · · · ·	300400	60.00	2001	- /. 300	-1.160
	305 +00	54.20	200'	-1.160	-1.080
	3/0+00	48.80	200'	-1.080	-3.07/
	3/7+00	27.30	200'	-3,07/	+0.187
	324450	28.70	200'	+0.187	+ 0.720
	329+50	32,30	200'	+0.720	10.480
	332100	33.50	2001	+0.480	-0.743
	335+50	30.90	300'	-0.743	- 0.267
	338+50	30.10	300'	-0.267	- a. 550
	342150	27.90	2001	-0.550	t 0.612
·	346+00	30,05	200'	+0.6/2	0.00
	Honizontal E	auation 351+	-72.26 P.O.T.B		
	354+00	30.05	200′	0.00	-0.733
	360100	25.6 <i>5</i>	2001	-0.733	243
	363+50	24.45	300′	-0.343	+ 2.171
	367+00	32,05	400′	+2.17/	-0.233

Horizontal Equation 374+38.32 P.T. BK = 374+52.00 P.O.T. AHD

1	op of Seal Coo	<u>a†</u>	** - Alexander (1974)	Page#
VPI Station	Eleu,	Length of V. C	- Poin	% out
382+00	26.05	2∞′	+0.750	41.771
Horizontal Equati	on 382+29.68	2 P.T. BK. = 382 +3	0.39 POT AHD.	
385+00	31,35	2001	+ /.771	-1.929
389+20	23.25	300′	-1.929	+1,302
393+50	28.85	2001	+1.302	0.00
396+00	28.85	200'	0.00	-0.900
398+00	27.05	200′	-0.900	+ 2.200
400+00	31.45	2001	+2.200	- 1,200
402100	29.05	200'	-1.200	+ 0.600
404+00	30.25	200'	+ 0.600	+1.000
406+50	32.75	2001	+1.000	-2.767
409+50	24.45	200'	-2,767	+1.400
412+50	28.65	200'	+1,400	+2.400
414+50	33.45	2.∞′	+2.400	-2,356
419+00	22.85	350′	-2.356	+1,400
425100	31.25	200'	+1,400	-1.533
428+00	26.65	2001	-1.533	+2./23
431425	33.55	200′	+2.123	-2,400
435400	24.55	Ζ∞′	-2.40	+0,733
439450	27,85	2001	+0.733	-1,000
442100	25,35	300'	-1.000	10.00
Horizontal Equation		P.T. BK. = 451+7	7.97 AHD	
	2 <i>5</i> , 3 <i>5</i>	- (0.000	+0.933
6 1 - 0	25, 3 <i>5</i>		+0,933	-0.360
	28.65		-0,360	<i>-0.6∞</i>
	2 <i>6.</i> 85		-0.600	+0.300
	27. 4 5	· · · · · · · · · · · · · · · · · · ·	40.300	
	25.25	- ' /		<u>-0.733</u>

	CHILKOOT LAKE
2 3 (1) (3) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	SOUS RO

	Top of Seal	Coat		Page#3
VPI Station	Elev.	Length of V.C.	% in	% ou 7
469+50	25 27	2001		- 2-3
	25.25	2001	0.00	-0.333
472+ <i>5</i> 0	24.25	300′	-0,333	<i>†</i> 0, 360
475+00	25.15	200'	+0.360	0.00
480+00	25.1 5	200'	0.00	-0.350
482+00	24.45	2001	-0.350	+1.409
487+50	32,20	200'	+1,409	40.200
489+50	32.60	200 '	10,200	10.655
492125	34.40	250'	+0.655	-2.455
495400	27.65	200'	-2.455	- 1.133
498 +00	24.25	200'	-/./33	+ 0,700
500+00	25.65	2001	10.700	+ 1.314
503+50	30.25	200'	41.314	10.00
506+80	30.25	2001	0.00	-2.194
508160	26.30	1001	-2.194	0.00

TYPICAL ONE LANE ROAD

* Ventical Olignment

PERMANENT CONSTRUCTION SIGN DETAIL

			STATE OF ALASKA
			DEPARTMENT OF TRANSPORTATION
			& PUBLIC FACILITIES
ΙΥ	DATE	DESCRIPTION OF CHANGE	CONTREAST REGION DESIGN & CONSTRUCTION

HAINES LUTAK ROAD SURFACING

PROJECT NO. 70244

TRAFFIC CONTROL PLAN

+1.833

-3.035

+0.750

APPROVED BY: DESIGN GROUP CHIEF DATE	DESIGNED BY: F.M.	scale: NONE
RECOMMENDED BY: DESIGN ENGINEER, GROUP " " CATE	DRAWN BY: B.A.	DATE: 10/90
PREPARED BY:	CHECKED BY: P. J.	SHEET 4 OF 4

