12-87

STATE	PROJECT	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0987(5)	1985	1	9

68914
(B-30212)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

RS-0987(5)-68914-(B-30212)

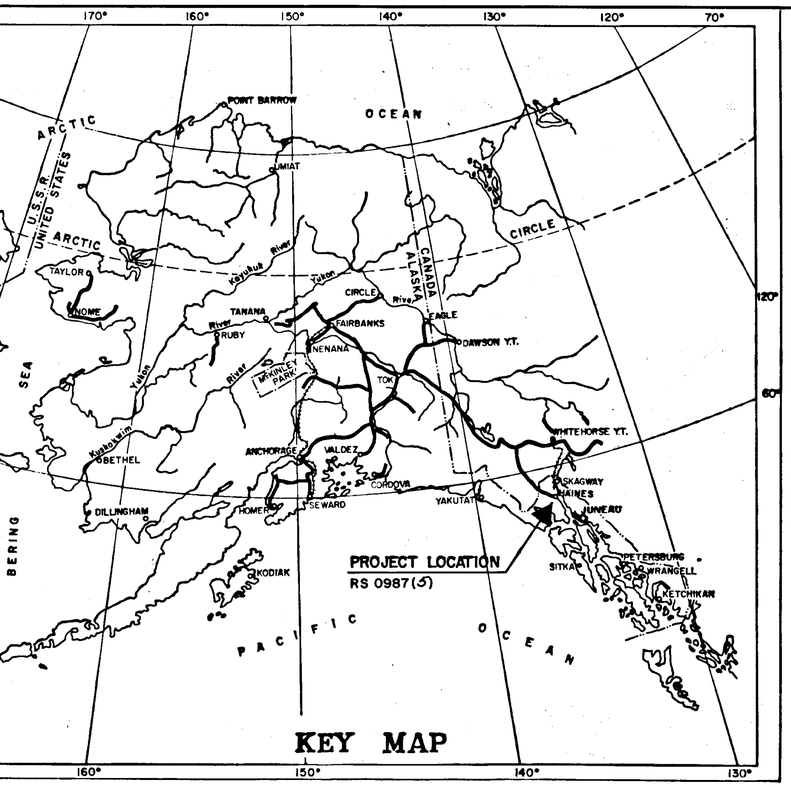
MUD BAY ROAD—HAINES
STAGE III
GRADING, DRAINAGE, SURFACE TREATMENT

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTION
3	ESTIMATE OF QUANTITIES
4	TRAFFIC CONTROL & CONSTR. SIGNING
5	DRAINAGE DETAILS, STA. 247+11
6-8	PLAN & PROFILE SHEETS
9	HORIZONTAL CONTROL DIAGRAM

The following Standard Drawings are included in these plans:

A-1, C-01.01, C-02.00, C-03.01, C-11.01, D-01.00, D-04.10, D-05.10, D-06.01, D-09.00, G-02.00, G-04.01W, G-14.02W, G-18.01, I-40.00, M-16.00, S-00.00, S-05.00, S-30.01, T-20.00, T-21.00.



KEY MAP

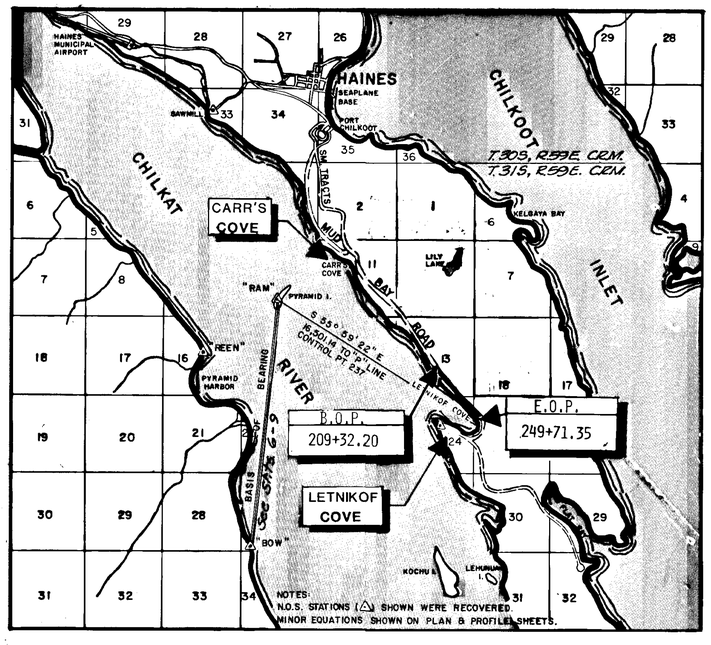
DESIGN DESIGNATION

ADT (1985) = 300
ADT (200) = 450
DHV 67%
T.I. 6.0
D 55-45
T 4.5%
V 40 M.P.H.

For more information on the justification for the clear zone versus guard rail requirements shown herein, see attachments to memorandum from Ed Covognaro thru W.L. Baumgartner, to Mal Linthwaite, and dated 1/3/86.

PROJECT SUMMARY

WIDTH OF STAGED SURFACE (SURFACE ☒)		= 34.5'
LENGTH OF PROJECT	4039.15 feet	.76 mi.
LENGTH OF GRADING	4898.35 feet	.93 mi.
LENGTH OF SURFACE TREATMENT	4898.35 feet	.93 mi.
LENGTH OF TEMPORARY CONNECTION	859.20 feet	.16 mi.



VICINITY MAP
SCALE: 1" = 1 MILE
USGS QUAD MAPS SKAGWAY A-1, A-2, B-1 & B-2 N5900 - W13500 / 15 x 22.5

0 1/2 1 2 3
SCALE IN MILES

AS-BUILT
1987
CONTRACTOR NORTHERN TIMBER CO.P.
PROJECT ENGINEER LARRY GEISE
Sept. 1986 - Aug. 1987

STATE OF ALASKA 49TH
Wm. L. BAUMGARTNER
NO. 1597-E
REGISTERED PROFESSIONAL ENGINEER

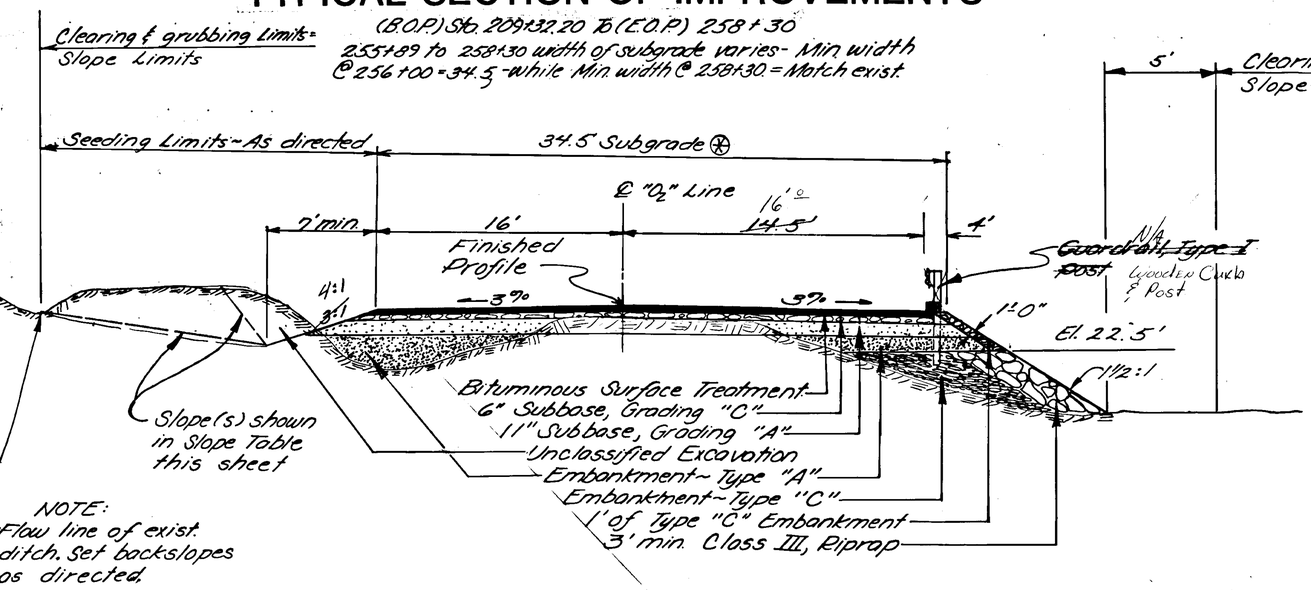
STATE OF ALASKA 49TH
GEORGE W. DAVIDSON
No. 1351-E
REGISTERED PROFESSIONAL ENGINEER

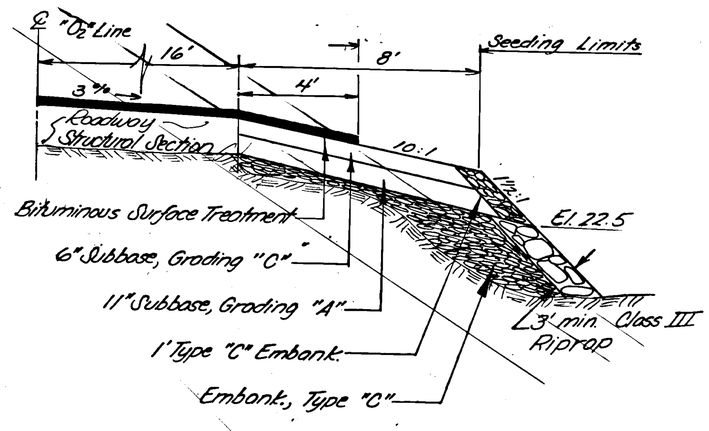
EMPS ENGINEERING
JUNEAU, ALASKA

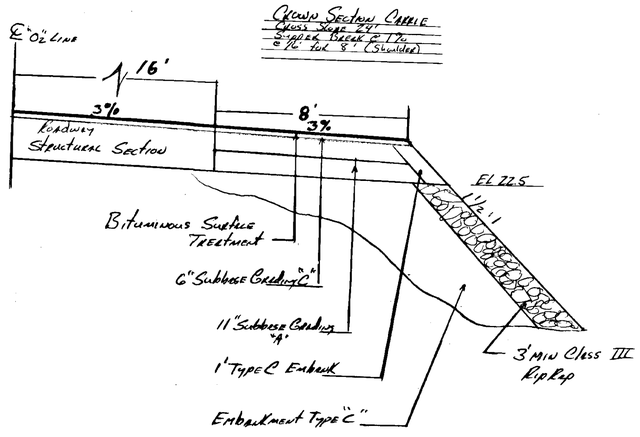
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS0987(5)	1985	2	9

68914 (B-30212)

TYPICAL SECTION OF IMPROVEMENTS







TYPICAL SECTION

ROADWAY WIDENING STA. 209+32.20 TO STA. 240+55

N·O·T·E·S

1. Grade & alignment shown on plans are subject to minor revisions.
2. Culvert lengths and locations are approximate only and are subject to minor revisions.
3. Superelevation rates & length of transition shall be as indicated on the plans or as directed.
4. All approaches shall be constructed per Standard Plan I-40.00 unless otherwise noted on the plans, approach grades shall be as directed, surface treatment shall be applied from edge of traveled way to the end of the new construction. Approaches that slope toward centerline shall be crowned as directed. .
5. See Sht. 9 for bearings & distances between "P" refrenced in the field and "O2" construction centerline, line points.
6. The Type I guardrail installations called for on this project shall be installed at 30 inch height versus the 27 inches shown on Standard Drawing G-04.01.
7. The parking area & approach roads to the boat harbor located in Letnikof Cove shall not be used as a stockpile area for equipment or materials.
8. Structural Section shown for the basic typical shall also apply to the roadway and parking area required between "O2" 240+00 and "O2" 248+00 Rt.
9. It is recommended that the contractor review the materials report and the gradation requirements for the various types of materials required prior to deciding what to do with the unclassified excavation.

STATE OF ALASKA 49TH
Wm L Baumgartner
Wm. L. BAUMGARTNER
NO. 1597-E
REGISTERED PROFESSIONAL ENGINEER

BASIS OF ESTIMATE	
ITEM	ESTIMATING FACTOR
304(1A, 1C)	2.00 Tons/c.y.
403 (2)	0.25 gal/s.y. 233 gal/ton
405 (1)	1.03 gal/s.y. 241 gal/ton
405 (2A)	48 lb/s.y.
405 (2B)	28 lb/s.y.

REMOVAL OF STRUCTURES AND OBSTRUCTIONS	
STATION	DESCRIPTION
"O2" 214+15 Rt.	Derelict Boat
"O2" 236+15 Rt.	Wood Piling

TABLE OF SLOPES			SLOPE	
STATION	THRU	STATION	CUT	FILL
"O2" 209+00 Lt.		"O2" 212+00 Lt.	1/2:1	
"O2" 212+00 Lt.		"O2" 243+50 Lt.	See note above	
"O2" 243+50 Lt.		"O2" 255+90 Lt.	1/4:1	

~~GUARDRAIL SUMMARY~~ SEE SHEET 5A & 5B				* "ALL GUARD RAIL HAVING A RADIUS OF 150' OR LESS SHALL BE SHOP FABRICATED.
STATION	THRU	STATION	LEFT - LINEAL FEET - RIGHT	* REMARKS
~~"O2" 239+00~~		~~"O2" 242+25 Rt.~~	~~325'~~	~~R=50', L=20', R=50', L=20'~~
~~"O2" 241+00~~		~~"O2" 246+50 Rt.~~	~~550'~~	
~~"O2" 242+80~~		~~"O2" 244+95~~	~~212.5'~~	
~~"O2" 245+00~~		~~"O2" 249+00~~	~~425'~~	~~R=30', L=36', R=30', L=36'~~

Ditch
O2" Lt & 240+40 & 241+54 Lt 18"
O2" 255+81 7 24" 45'

CULVERT SUMMARY				
STATION	SHEET	SIZE	LNGTH	COVER
~~"O2" 214+14~~	6	24"	~~80'~~	5'
~~"O2" 217+00~~ 57	6	48" B	~~62'~~	5'
"O2" 220+33	6	24"	60'	5'
"O2" 222+50	6	24"	60'	5'
"O2" 225+00	7	24"	60'	5'
"O2" 230+31	7	24"	60'	5'
"O2" 232+36 26	7	24"	60'	3'
"O2" 238+84	7	24"	60'	5'
"O2" 247+32	7	54" B & C	116'	3.5'
"O2" 248+57 Skew 10° L. and.	7	24"	110'	5'

B - End section required.
C - Requires Install. of Class "C" embank. of the inlet end of the pipe.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS09876(5) 68914 (B-30212)	1985	3	9

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	SHEET NUMBER 6	7	8	FINAL	TOTAL
109(2)	OBE & WBE Adjustments	Cont Sum					Cont. Sum
110(2)	Mobilization & Demobilization	L.S.				16,000	All Req'd. ✓
111(1)	Temporary erosion & pollution Control	Cont Sum					" "
112(1)	Training program in accord. w/ FHWA Order I	Man-hr.				324	1,000
113(1)	Flagging	Man-hr.				519	500
114(1)	Construction Surveying by contractor	L.S.				16,500	All Req'd. ✓
115(1)	Traffic maintenance	L.S.				5281	" "
115(2)	Construction Signs (Approx. quant. 150 S.F.)	L.S.				1872	" "
116(8)	Contractor furnished vehicles	Ea.				19047	3 x 6,349
201(2B)	Clearing & grubbing	L.S.				7503	All Req'd. ✓
202(1)	Removal of structures & obstructions	L.S.				1,242	" "
202(4)	Removal of culvert pipe	L.F.	135	165	0	318	300
203(3)	Unclassified Excavation	C.Y.	5644	5725	1476	17,165	12,845
203(8)	Embankment	C.Y.	6024	14,289	1513	21,289.8	21,826
304(1A)	Subbase, Grading "A"	C.Y. Tons	4225	8,178	2408	8567	14,811
304(1C)	Subbase, Grading "C"	Tons	2149	4,207	1211	10,870	7,567
403(2)	MC-30 Liquid asphalt for prime coat	Tons	5.80	12.0	3.7	23.82	21.5
405(1)	CRS-2 Asphalt for surface treatment	Tons	29.25	49.15	14.50	130.92	92.9
405(2A)	Grading "B" Cover coat material	Tons	.180	258.5	82.5	545	521
405(2B)	Grading "E" Cover coat material	Tons	115	144	45.0	575	304
603(13-48)	48 Inch Corrugated Aluminum pipe	L.F.	62			72	62
603(13-54)	54 Inch Corrugated Aluminum pipe	L.F.		82		116	82
603(15-48)	End Section for 48 Inch Corrugated Alum. pipe	Ea.	2			1	2
603(15-54)	End Section for 54 Inch Corrugated Alum pipe	Ea.		2		2	2
603(22-24)	24 Inch pipe	L.F.	174	328		5595	502
606(1)	Beam Type Guardrail, Type I Post	L.F.		1,412.5	100	DELETED	1,512.5
606(6)	End Anchorages	Ea.		7	1	DELETED	8
606(10)	Wooden Curb & Post	L.F.				1,434	1,434
611(1)	Riprap, Class III	C.Y.	1019	3858	506	5751	5,383
614(5)	Monument & monument cases	Ea.	4	6			10
625(1)	Standard Signs	S.F.			14.75	44.75	14.75
618(2)	Seeding	Acre	1.04	1.41	0.53	2.07	3.0
618(4)	Water for maintenance	m/gal	2.3	3.1	1.2	N/A	6.6
627(1)	Watering	m/gal	22.7	36.4	10.6	162.5	69.7
639(1)	Approaches (driveways)	Ea.			1		1
670(1)	Painted traffic markings (approx. 3.0 mi. & 28 parking spaces)	L.S.				44,000	All Req'd. ✓

SURVEY MONUMENT SUMMARY

STATION	POINT	MON	CASE
✓ "O₂" 209+32.20	PC	1	1
✓ "O₂" 213+35.37	PT	1	1
✓ "O₂" 216+28.49	PC	1	1
✓ "O₂" 219+73.02	PT	1	1
✓ "O₂" 230+10.76	PC	1	1
✓ "O₂" 232+26.78	PT	1	1
✓ "O₂" 234+33.10	PC	1	1
✓ "O₂" 237+96.51	PT	1	1
✓ "O₂" 243+12.36	PC	1	1
✓ "O₂" 246+23.29	PT	1	1

CULVERT REMOVAL SUMMARY

STATION	SIZE	LENGTH
"O₂" 217+00	48"	~~45'±~~ 38'
~~"O₂" 219+73~~		~~45'±~~
"O₂" 222+30	12"	45'±
"O₂" 229+92	24"	~~45'±~~ 41'
"O₂" 232+30	18"	~~45'±~~ 40'
"O₂" 238+84	18"	45'± 42'
"O₂" 247+15	48"	~~30'±~~ 30'
O₂" 225+00	24"	42'
O₂ 231+00	24"	40'

APPROACH SUMMARY

LOCATION	WIDTH
~~"O₂" 256+10 L.~~	

STATE OF ALASKA 49TH
Wm. L. BAUMGARTNER
NO. 1597-E
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS 0987(5) 68914 (B-30212)	1985	4	9

GENERAL NOTES:

1. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES THE RESPONSIBILITY OF INSTALLING AND MAINTAINING THE REQUIRED TRAFFIC CONTROL ELEMENTS FOR THIS PROJECT. A COPY OF THE DESIGNATION SHALL BE FORWARDED TO THE ENGINEER..
2. ALL PROJECT CLOSURES SHALL BE AS SHOWN ON STANDARD DRAWINGS C-01.01, C-02.00, C-03.01. ADDITIONAL REQUIREMENTS ARE SHOWN IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ALASKA SUPPLEMENTAL.
3. ALL ONE-LANE CLOSURES SHALL BE AS SHOWN ON STANDARD PLAN C-03.01. ALL DETOURS REQUIRED ON THE PROJECT SHALL BE CONSTRUCTED AND CONTINUOUSLY MAINTAINED TO THE FOLLOWING MINIMUM WIDTHS AT ALL TIMES: ONE-WAY TRAFFIC-12'
   TWO-WAY TRAFFIC-20'
4. ANY ONE-WAY DETOURS DURING DUSK (PM) TO DAWN (AM) WILL REQUIRE TEMPORARY ILLUMINATION. THE MINIMUM LEVEL OF ILLUMINATION SHALL BE 2.0 FOOT-CANDLES ON THE ROADWAY SURFACE
5. SHOULDER DROP-OFFS GREATER THAN 1 1/2 INCHES SHALL NOT BE ALLOWED DURING NON-WORKING HOURS.
6. THE FOLLOWING CONSTRUCTION SIGNING SCHEDULE SHALL BE CONSIDERED AS THE MINIMUM AMOUNT OF REQUIRED SIGNING. ADDITIONAL SIGNS MAY BE REQUIRED BY THE ENGINEER.
7. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE-WAY TRAFFIC WITH FLAGGING OPERATIONS DURING WORKING HOURS, UNLESS ONE-WAY DETOURS ARE ILLUMINATED. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC THROUGHOUT THE ENTIRE PROJECT
8. ALL ROADWAY CLOSURES FOR BLASTING SHALL BE LIMITED TO THREE(3) HOURS TOTAL, TWO(2) HOURS OF TOTAL CLOSURE WILL BE ALLOWED AND ONE (1) HOUR OF ONE-WAY TRAFFIC WITH A FLAGGING OPERATION.
9. ALL ROADWAY CLOSURES FOR REMOVAL AND INSTALLATION OF CULVERTS SHALL BE IN ACCORDANCE WITH SECTION 115-3.01 OF THE STANDARD SPECIFICATIONS.
10. IN ORDER TO AVOID DELAY TO SCHOOL BUS SCHEDULES NO ROAD CLOSURES WILL BE PERMITTED DURING THE FOLLOWING PERIODS: 6:00 A.M. TO 8:30 P.M. OR 4:00 P.M. TO 6:30 P.M. ADDITIONALLY, NO SLOSURES WILL BE PERMITTED ON FEDERAL OR STATE HOLIDAYS, WEEKENDS, OR DURING THE HAINES SALMON DERBY OR 2 HOURS PRIOR TO ANY FERRY DEPARTURE FROM HAINES.
11. 24 HOURS PRIOR TO ANY ROADWAY CLOSURES, THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE FOLLOWING PERSONS AND OR AGENCIES:
    A. D.O.T.& P.F. ENGINEER.
    B. ALL LOCAL FIRE, POLICE AND CITY OFFICIALS
    C. PARK RANGERS AT CHILKAT AND CHILKOOT STATE PARKS
    D. SCHOOL BUS COMPANY, IF SCHOOL IS IN SESSION.
12. THE CONTRACTOR SHALL ALSO BROADCAST THE TIMES OF ANY CLOSURES ON ALL LOCAL RADIO STATIONS. ALL NOTICES OF CLOSURES SHALL BE BROADCAST FOR 24 HOURS PRIOR TO THE CLOSURE. A MINIMUM OF FIVE(5) TIMES PER DAY BETWEEN THE HOURS OF 8:00 A.M. AND 10:00 P.M.
13. THE CONTRACTOR SHALL NOTIFY ALL LOCAL PROPERTY OWNERS 24 HOURS IN ADVANCE OF ANY RE CONSTRUCTION OF PRIVATE DRIVEWAYS.
14. DURING PLACEMENT OF EACH SURFACE TREATMENT COURSE, THE CONTRACTOR SHALL UTILIZE ONE-WAY TRAFFIC WITH PILOT CARS FOR A MINIMUM OF 8 HOURS. NO TRAFFIC WILL BE ALLOWED ON THE FRESHLY PLACED SURFACE COURSES FOR AN 8 HOUR CURING PERIOD. THE MAX. SPEED ON FRESHLY PLACE SURFACE COURSES SHALL BE 20 MPH.
15. A TRAFFIC CONTROL PLAN(TCP) MUST BE FOLLOWED AT ALL TIMES DURING THE LIFE OF THE PROJECT. FOR EACH PHASE OF CONSTRUCTION. THE TCP SHOWN ON THIS SHEET AND STANDARD DRAWING C-01.00 THROUGH C-11.01 IS OFFERED AS A GUIDE: THE CONTRACTOR MAY MODIFY THIS TCP OR USE AN ALTERNATIVE TCP OF HIS OWN DESIGN. HOWEVER, AN APPROVED TCP WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE GENERAL INTENT OF THE TCP IS THAT THE CONTRACTOR FOLLOW PROCEEDURES WHICH RESULT IN A SAFE TRAVERSABLE FACILITY FOR PUBLIC VEHICULAR AND PEDESTRIAN TRAFFIC. THE TCP SHOWN IS NOT MEANT TO DESIGNATE CONSTRUCTION TECHNIQUE, EQUIPMENT OR SEQUENCE, BUT TO ADDRESS THE CENTRAL ISSUE OF TRAFFIC SAFETY.

TRAFFIC CONTROL PLAN (T.C.P.) CONSTRUCTION SIGNING SCHEDULE

LOCATION	QUANITY	SQ. FT.	CODE	SIZE	LEGEND
①	2	30.0	G20-1	36"x60"	ROAD CONSTRUCTION NEXT 75 MILES
②	2	20.0	G20-2	24"x 60"	END CONSTRUCTION
③	2	4.5	CW13-1	18"x 18"	20 M.P.H.
④	2	18.0	CW20-1B	36"x 36"	ROAD CONSTRUCTION 1000 FT.
⑤	2	12.5	CW 8-8	30"x 30"	ROUGH ROAD
⑥	2	32.0	CW22-1	48"x48"	BLASTING ZONE 1000 FEET
⑦	2	21.0	CW22-2	36"x 42"	TURN OFF 2-WAY RADIO
⑧	2	21.0	CW22-3	36"x 42"	END BLASTING
Total Sq.Ft.		158			

STANDARD SIGN SUMMARY

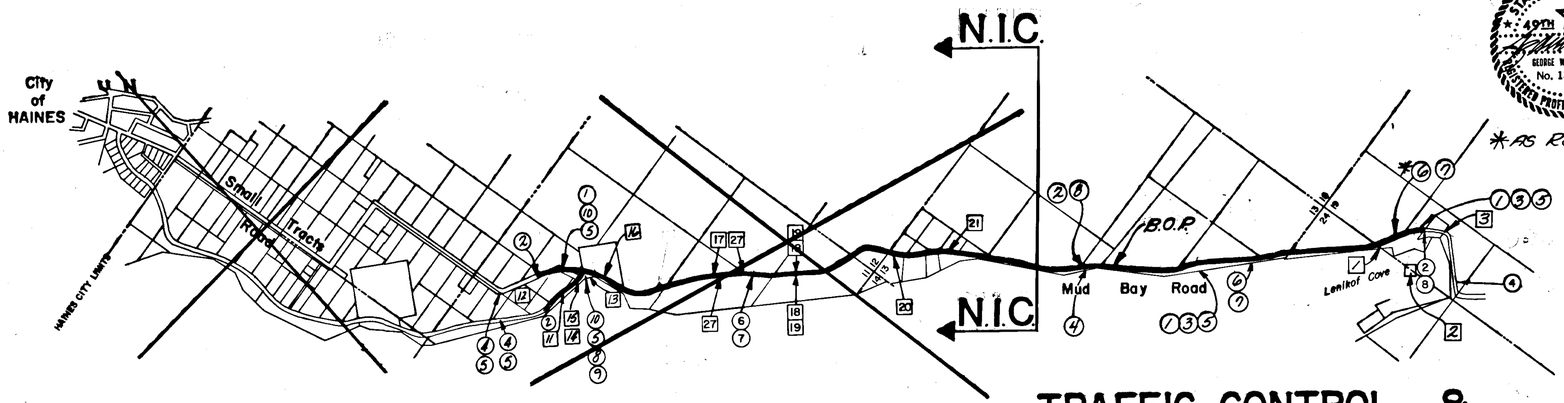
No.	Station	Dist. From Centerline	Code No.	Legend	Size	Thickness	Area S.F.	No. Posts	Type	Size	Length*	Facing Traffic	Remarks
‡	"O₂" ~~206+99~~ Rt	19'	W5-1	Road Narrows	36"x36"	0.08		1	Tube	2"	12.5'	S.E.B.	
[1]	"O₂" ~~253+00~~ Rt	28'	W1-1R	Symbol	30"x30"		6.25	1	Tube	2"	14'	S.E.B.	
[2]	"O₂" ~~253+00~~ Rt	28'	W13-1	25 m.p.h.	18"x18"		2.25	—	—	—	—	S.E.B.	
[3]	"O₂" ~~255+00~~ Lt	28'	R2-1	Speed Limit 35	30"x30"		6.25	1	Tube	2"	12.5'	N.W.B.	
[4]	"O₂" North Parking Lot Work Ramp			No Over Night Parking	24"x36"		.6	1	Tube	2"		Parking Lot	
[5]	O₂" 239+17 Rt.			Chilkat State Park 2 Miles	72"x30"		.15	2	Tube	2"		S.E.B.	
*	Post lengths are approx. only. Verify length after grading has been completed.												
‡	Remove sign & post assembly "O₂" Sta. 206+29 Rt, reset at "O₂" Sta. 249+71.35 Rt.												
	payment for this work incidental to other items of work.												

GENERAL SIGNING AND STRIPING NOTES.

1. Sign locations and post lengths are approximate only and are subject to minor revisions.
2. All sign posts shall be square telescoping perforated galvanized steel posts, the 2" size shall be used above ground and the 2-1/4" shall be used below ground for the sleeve.
3. All posts shall be installed with the sleeve type embedment in accordance with Standard Drawing S-30.01, except that the 2-1/4" size shall be used for the entire embedment depth.
4. Post lengths are from the cut-off in the sleeve to the top of the post. See Standard Drawings S-05.00 & S-30.01
5. Painted Traffic Markings shall be in accordance with Standard Drawing T-21.00 for paved shoulder and Section 670 of the Standard Specifications.

STATE OF ALASKA 49TH — Wm. L. BAUMGARTNER NO. 1597-E REGISTERED PROFESSIONAL ENGINEER

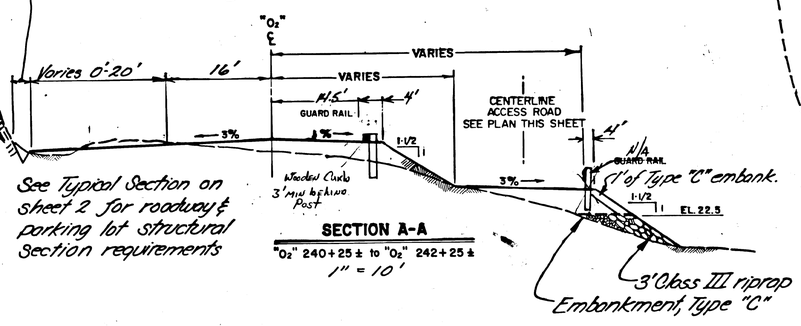
STATE OF ALASKA 49TH — GEORGE W. DAVIDSON No. 1351-E REGISTERED PROFESSIONAL ENGINEER



TRAFFIC CONTROL & CONSTRUCTION SIGNING PLAN

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS 0987(5) 68914 (B-30212)	198	5	9

** 241+75 to 242+75 & 245+75 to 246+50, install a 2' wide by 0.5' deep ditch. Grade to drain as directed. Roadway ditch between 241+75 & 245+75 shall be graded to drain to the 24 Inch pipe of 244+75. Min. grade shall be 0.5%.

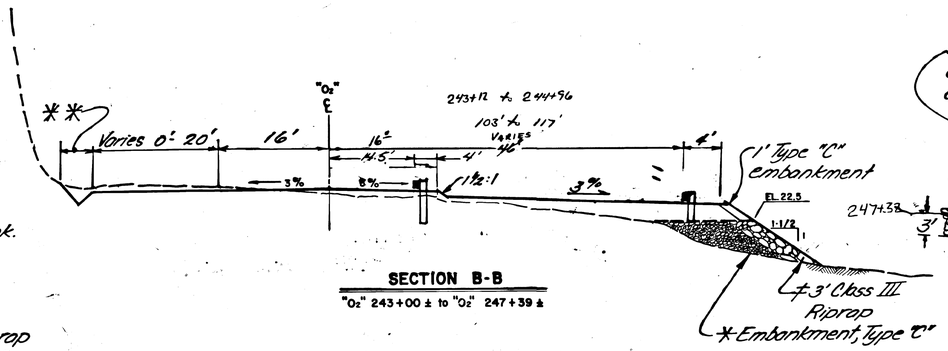


See Typical Section on sheet 2 for roadway & parking lot structural Section requirements

SECTION A-A

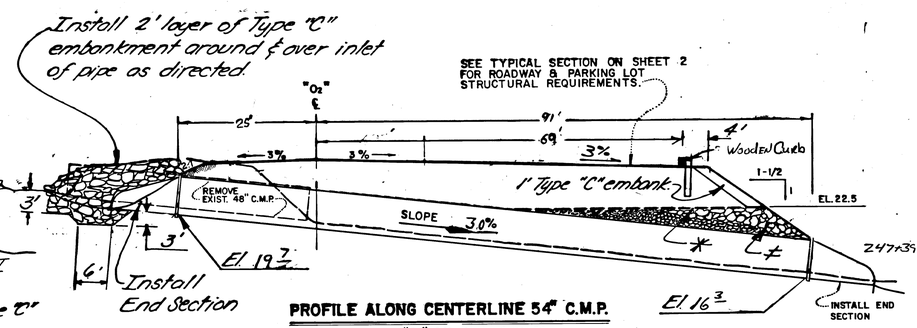
"O2" 240+25 ± to "O2" 242+25 ±

1" = 10'



SECTION B-B

"O2" 243+00 ± to "O2" 247+39 ±



PROFILE ALONG CENTERLINE 54" C.M.P.

"O2" 247+32 to 247+39

1" = 10'

HYDRAULIC & HYDROLOGIC SUMMARY STA 247 + 00

Flood Frequency	50 year	100 year
Exceedance Probability	2%	1%
Drainage Discharge	0.32 mi^2	0.32 mi^2
Design Discharge	109 cfs	121 cfs
Design Elevation	25.6	26.0

Hydraulic Capacity of the structure equals 100 cfs at Elev. 25.1 which has an Exceedance Probability less than 3%.
Projected backwater at Q100=5.4 feet.

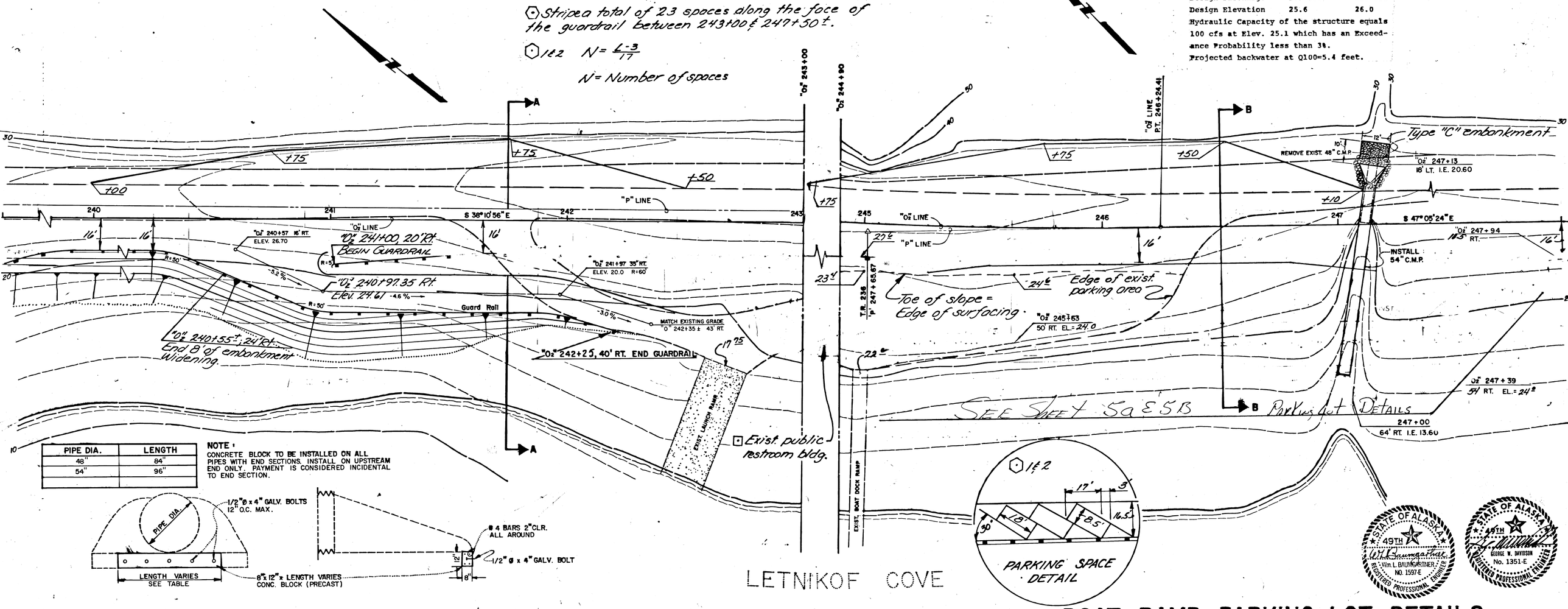
NOTES

⊡ Any relocation of public restrooms required to install surfacing shall be considered incidental to other items of work shown in the bid schedule.

⊙ Stripe a total of 23 spaces along the face of the guardrail between 243+00 & 247+50 ±.

⊙ 1 ℄ 2 $N = \frac{L-3}{17}$

N = Number of spaces



PIPE DIA.	LENGTH
48"	84"
54"	96"

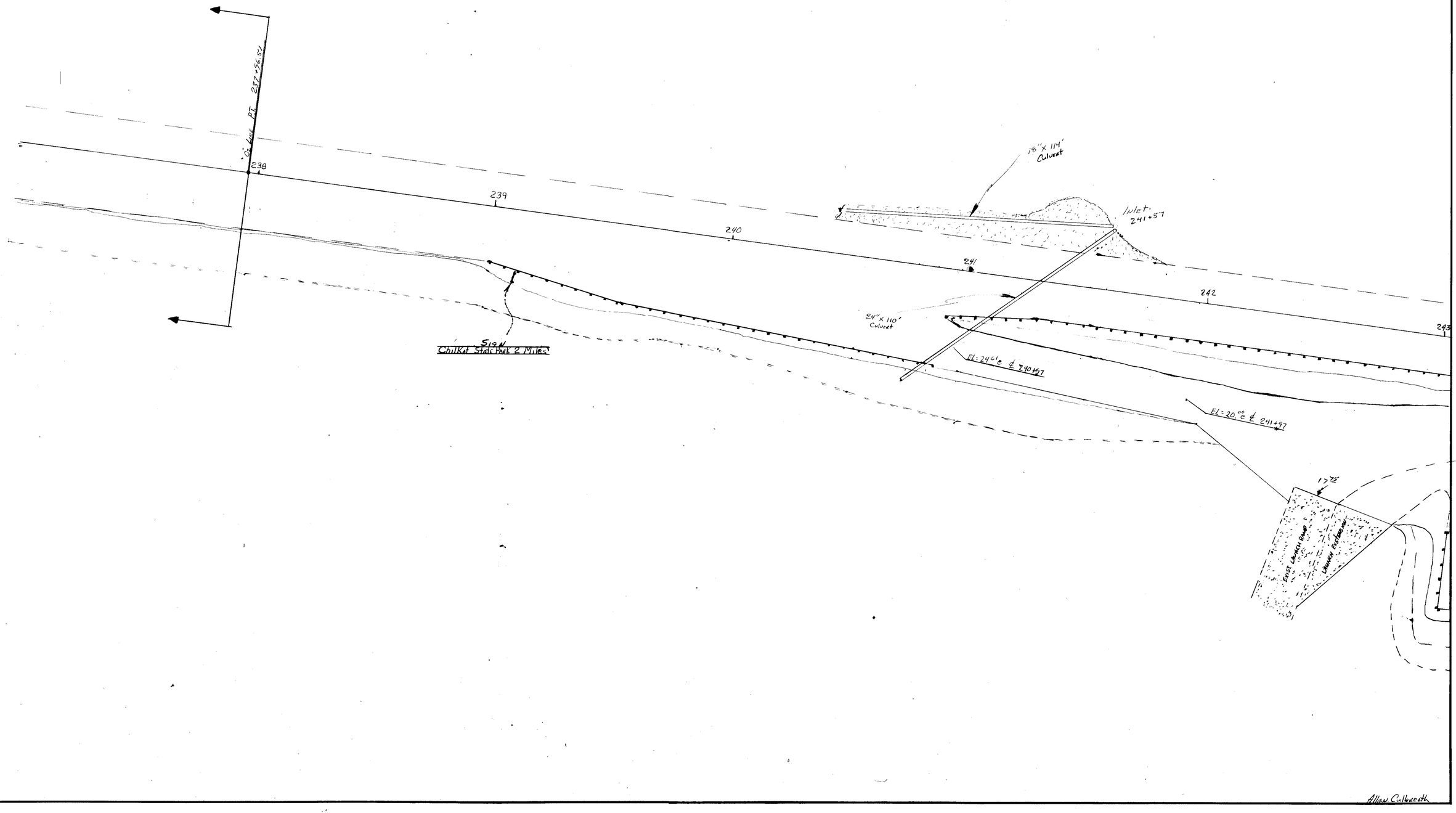
NOTE:
CONCRETE BLOCK TO BE INSTALLED ON ALL PIPES WITH END SECTIONS. INSTALL ON UPSTREAM END ONLY. PAYMENT IS CONSIDERED INCIDENTAL TO END SECTION.

END SECTION TIE-DOWN BLOCK

BOAT RAMP PARKING LOT DETAILS

1253 7-81 IBC 2893-

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0987(5) 68914 (B-30412)	1987	5A	9B



Allen Culbreath

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS 0987 (5) G89M (B-30212)	1987	58	98

242
243
244
245
246
247
P.C. STA. 243+12.36 "O2" LINE
"O2" LINE P.T. 246+24.41
Wooden Curb
6" x 8" Treated Timber
Post Spaced on
6'-3" Centers
EL=23°
EL=26°
16'
Edge of exist. parking area
EL=26° ALONG Toe Slope
12'
10'
INSTALLED 54" X 116 C.M.P.
North Parking Lot & Boat
Ramp Access Two Course
Surface Treatment Grading B & E
Surface Treatment
Grading B Cover Coat
Material Single Application
EXIST. LAUNCH RAMP
LAUNCH EXTENSION
EL=23⁵
EL=24°
EL=25°
Along Face Wooden Curb
Public Restrooms
on 12x12 Concrete
Slab
Toe Slope 12⁵
Toe Slope 11⁵
Sign
No Over Night Parking
EXIST. BOAT DOCK RAMP

BOAT RAMP PARKING LOT DETAILS

Allan Calbreath


Sec. 13, T. 31 S., R. 59 E
STATE | PROJECT | YEAR | SHEET NO. | TOTAL SHEETS
ALASKA | RS 0987(5) | 1985 | 6 | 9
68914 (B-30212)
Dependent Resurvey Portion Sec. 13
Scenic Turn Out 210+40 to 215+00
Lot 13
Lot 14
Lot 3
Lot 4
Ft. Seward Military Reserve
N.I.C.
old road
BASE OF CLIFF
See Details This Sheet
MATCH LINE
"O2" LINE
"P" LINE
B.S.T. "O2" 191+66
B.F.S. "O2" 193+36
E.F.S. "O2" 194+92
E.S.T. "O2" 194+92
"O2" 196+30 REMOVE EXIST. 18"x50' C.M.P.
"O2" 196+68 INSTALL 24" x 75' PIPE
"O2" 203+35 REMOVE EXIST. C.M.P. AND INSTALL 24" x 75' PIPE
"O2" 208+30 INSTALL 24" x 70' PIPE
"O2" 213+84 Install 24"x 80' Pipe
"O2" 219+73 remove exist. CMP & install 24"x55' Pipe
"O2" 220+33 Install 24"x60'
"O2" 222+30 LT. REMOVE EXIST. C.M.P.
"O2" 222+50 INSTALL 24" x 54' PIPE
"O2" 217+00 REMOVE 38" EXIST. C.M.P. / INSTALL 48" x 72" CULVERT @ Sta 217+57 W/2 - END SECTIONS
B.S.T. "O2" 196+66
B.F.S. "O2" 197+91
E.F.S. "O2" 199+09
E.S.T. "O2" 200+34
B.S.T. "O2" 204+01
B.F.S. "O2" 205+36
E.F.S. "O2" 206+55
E.S.T. "O2" 207+87
B.S.T. "O2" 208+49
B.F.S. "O2" 209+74
E.F.S. "O2" 212+94
E.S.T. "O2" 214+19
B.S.T. "O2" 215+29
B.F.S. "O2" 216+64
E.F.S. "O2" 219+28
E.S.T. "O2" 220+63
NOTE: All T.B.M.'s shown hereon, are to be considered informational only. It shall be the responsibility of the contractor to verify the stated information prior to beginning any work.
The surfacing on Stage II Temporary Connection, between 209+32 & 213+00 shall be removed as directed. Payment for removing the surfacing shall be incidental to other items of work shown in the bid schedule.
T.B.M. No. 19
Chiselled "O" near top of 8' x 14' granite boulder, Sta. 210+20 ±, 120' ± Rt. elev. 20.67'
HORIZONTAL CONTROL
Based upon the grid bearing between N.O.S. station "RAM" and "BOW".
"RAM" Latitude - 59°11'45.007" N. 2,693,954.563 - Longitude - 135°27'25.855", E. 2,349,846.372
"BOW" Latitude - 59°09'00.537" N. 2,677,304.017, Longitude - 135°27'38.864" E. 2,347,685.937
VERTICAL CONTROL
U.S.C. & G.S. Benchmark No. 5 (1943) Brass cap on Granite Rock, 50' ± East of ℄ Front St. & 300' ± North of intersection of Front St. Haines cut-off road. ELEV. = 27.60 (1961 Datum).
PROJECT COORDINATES
179+86.34 N. 33,354.567, E. 37,104.789
271+50.00 N. 25,928.201, E. 41,724.099
New 2" PVC pipes as directed
Masonry structure with drain & swale ditch to roadside ditch.
6" SUBBASE, GRADING "C"
Surface Treatment
11" SUBBASE GRADING "A"
Slope as directed
TYPICAL SECTION
For Turnout Between Sta. 195+00 Lt. & 197+50 Lt.
All req'd used in installing this turnout shall be 2.5.
BEGIN PROJECT RS-0987(5)*
"O2" 210+00 A.P. ELEV. 25.45
EXISTING GROUND
FINISH PROFILE
Culvert Remove
GRADE SPECIAL DITCH LEFT
END SPECIAL DITCH
194+25 DITCH INV. 22.62
200+00 DITCH INV. 22.62
STA. 206+00 DITCH INV. 22.62
UNCLASSIFIED EXCAVATION = 5644 c.y. (See Note 9 on Sht. 2)
EMBANKMENT = 6024 c.y. (Includes approx. 4800 c.y. of embankment, Type "C")
STATE OF ALASKA 49TH W. L. Baumgartner No. 1597-E REGISTERED PROFESSIONAL ENGINEER
STATE OF ALASKA 49TH George W. Davidson No. 1351-E REGISTERED PROFESSIONAL ENGINEER
195+00 200+00 205+00 210+00 215+00 220+00 225+00
K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

STATE	PROJECT	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS 0987(5)T	1985	7	9

68914 (B-30212)

Sec. 13, T. 31 S., R. 59 E.

Sec. 24, T. 31 S., R. 59 E

Sec. 19, T. 31 S., R. 60 E

Dependent Resurvey
Portion Sec. 13

Lot 3

Lot 4

Lot 1

Lot 1

Lot 2

Cove

Letnikof

MATCH LINE

"O" 225+00
O₂ REMOVED 42' EXIST. C.M.P.
INSTALLED 24"x60' C.M.P.

"P" STA. 230+10.76

P.C. STA. 229+71.41 "O₂" LINE

"Q" LINE
R = 6430.00'
Δ = 02°26'19" LT
L = 255.37
T = 127.71
S = 0.90 FT/FT
D = 0°57'18"

P.T. STA. 232+26.78 "O₂" LINE

"P" STA. 237+97.15

33'+00
Removed 40' of C.M.P.

"O₂" 241+00 RT. BEGIN GUARDRAIL
"O₂" 243+00 RT. END GUARDRAIL

BASE OF CLIFF

"O" 238+84 REMOVE 42" EXIST. C.M.P. AND INSTALL 24"x54" PIPE

18" C.M.P.

B.S.T. "O₂" 242+22
B.F.S. "O₂" 243+57
E.F.S. "O₂" 245+78
E.S.T. "O₂" 247+13

"Q" LINE
R = 2000.00'
Δ = 08°54'27" LT
L = 310.93
T = 155.78
S = 0.035 FT/FT
D = 2°51'53"

P.C. STA. 243+12.50 "O₂" LINE

"P" STA. 247+65.67

P.T. STA. 246+23.28 "O₂" LINE

"O" 247+15 REMOVE EXIST 48" C.M.P. 30'
INSTALL 54"x86' CULVERT W/8-END C Sta 247+32 Inlet 247+39 outlet
SECTIONS - SEE SHEET 5 FOR DETAILS.

MATCH LINE

BASE OF CLIFF

48" C.M.P.

MILEPOST

S 47° 05' 24" E -

"O₂" 224+00

"O" 225+33 INSTALL 24" x 54' PIPE

"O" 229+92 REMOVE EXIST. C.M.P. AND INSTALL 24" x 54' PIPE @ Sta 230+31

"O" 232+38 REMOVE "A" EXIST. C.M.P. AND INSTALL 24" x 54' PIPE

S 42° 41' 04" E
998.39

S 45° 07' 23" E - 206.82

S 36° 10' 57" E - 515.85

WOOD PILING OLD PIER

CLASS III RIP-RAP CONTINUES

CLASS III RIP-RAP CONTINUES

B.S.T. = "O₂" 228+91
B.F.S. = "O₂" 230+01
E.F.S. = "O₂" 231+47
E.S.T. = "O₂" 232+67

"O₂" LINE P.C. STA. 234+33.10

"O₂" LINE P.T. STA. 237+96.51

"Q" LINE
R = 3000.00'
Δ = 06°56'26" RT
L = 363.41
T = 181.93
S = 0.03 FT/FT
D = 1°54'35"

B.S.T. "O₂" 233+43
B.F.S. "O₂" 234+78
E.F.S. "O₂" 237+52
E.S.T. "O₂" 238+82

"O₂" 239+00, 20' RT.
BEGIN GUARDRAIL
Wooden Curb

"O₂" 242+30, 40' RT.
END GUARDRAIL

"O₂" 245+00, 61' RT.
BEGIN GUARDRAIL

BOAT LAUNCH

LAUNCH PADS

SIGN POST

DOCK

A.T.S. 192
TRACT "B"

"O₂" 248+00

SEE SHEET 5 FOR BOAT RAMP ACCESS ROAD AND PARKING LOT EXTENSION DETAILS

END CLASS III RIP-RAP
"O₂" 242+00
BEGIN CLASS III RIP-RAP
"O₂" 245+50
"O₂" 242+00 - "O₂" ~~245+50~~ 247+94
Installation of class III Riprap is req'd. and placement shall be as directed.

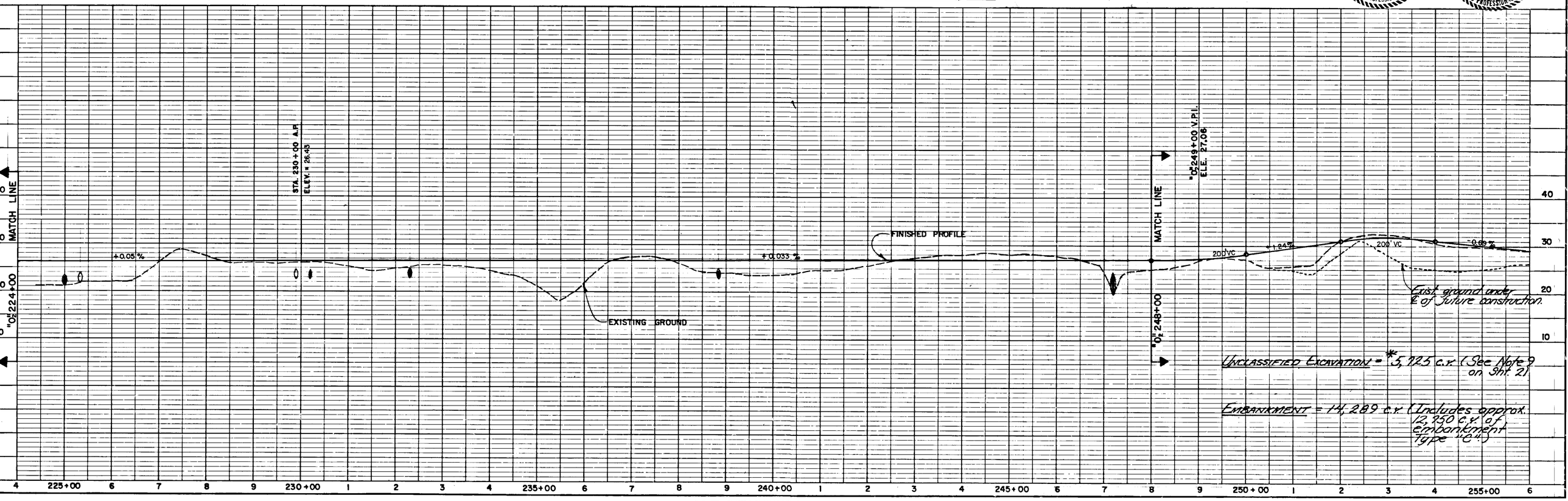
Install guard rail at edge of roadway and parking area. Exact stations to be set by engineer.

T.B.M. No. 20
5/8" REBAR IN FISSURE OF CLIFF,
40' LT. ± OF STA. 225+50 ±
ELEV. = 32.25

T.B.M. No. 21
CHISELLED "O" IN TOP OF 12'x 6'x 8' HIGH
GRANITE PYRAMID SHAPED BOULDER
30' RT. ± OF STA. 233+10 ±
ELEV. = 23.22

STATE OF ALASKA 49TH
Wm. L. BAUMGARTNER
NO. 1597-E
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA 49TH
ERNEST R. LINDSEY
No. 1351-E
REGISTERED PROFESSIONAL ENGINEER



UNCLASSIFIED EXCAVATION = *5,725 c.y. (See Note 9 on Shf. 21)

EMBANKMENT = 14,289 c.y. (Includes approx. 12,950 c.y. of embankment type "C")

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.

STATE	PROJECT	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS0987(5)	1985	8	9

68914 (B-30212)

Sec. 19, T. 31S., R. 60E.

R.P.'s W/ LIGHT & ANTENNA
GREEN HOUSE
SHEDS

PICKET FENCE

Lot 1

P.T. 255+89.24
255+81
INSTALLED 24" x 45 C.M.P.

Lot 2

℄ FUTURE CONSTRUCTION

Lot 3

TEMP. CONNECTION
R=1500.00
Δ= 5°14'28"
T= 68.65
L= 137.21
S=0.03 ft/ft

TEMP. CONNECTION
R=1500.00
Δ= 11°17'07"
T= 148.20
L= 295.45
S=0.03 ft/ft

P.T. 251+08.56
TEMP. CONNECTION

℄ LINE 249+71.35 P.O.T.
P.C. 249+71.35 BEGIN
TEMPORARY CONNECTION

S 52°19'52" E - 185.23
S 47°08'24" E - 896.31

P.C. STA. 256+34.32
TEMP. CONN.

"P" STA. 260+00.00

P.T. STA. 258+30.55

TEMP. CONN.
R = 300'
Δ = 37°50'00"
T = 101.84
L = 196.55
D = 19°05'55"
S = 0.06 ft/ft of
match existing ③

P.C. STA. 255+19.80

FUTURE CONST.
"O" LINE
R = 600.00'
Δ = 65°53'24"
T = 388.83
L = 690.00

P.C. STA. 252+39.79
TEMP. CONNECTION

Cove

A.T.S. 192
TRACT "B"

Letnikof

"O" 249+00 RT.
END GUARDRAIL &
6 CLASS III RIP-RAP

END TEMP. CONNECTION
258+30.55
60.66

END OF PROJECT & BEGIN TEMP. CONNECTION
"O" 249+71.35

"O" 248+00

MATCH LINE

T.B.M. No. 22
CHISELLED "O" IN BOTTOM 1/3 OF
14' LONG TILTED ROCK SLAB
50' LT. ± OF STA. 253+75 ±
ELEV. = 35.82

"A" LINE

"P" LINE

P.C. STA. 267+86.61

"O" LINE
R = 600.00'
Δ = 45°08'49"
T = 249.46
L = 472.78

P.T. STA. 272+59.39

18" C.M.P.

"P" STA. 278+43.34

P.O.T. STA. 271+90.28

"P" STA. 276+40.08

"P" STA. 281+40.28

SPEED SIGN

TETHER BALL POLE

5" PIPE INTO
2" RUBBER PIPE
TANK

SHACK

TRAILER

2 - 30" C.M.P.'s
2 DIRT BANKS

T.B.M. No. 24
SPIKE IN BASE OF HEMLOCK
30' LT. ± OF "P" LINE STA. 281+40 ±
ELEV. = 55.54

30" C.M.P.
OLD PIER
30" C.M.P.
4" WOOD SEWER
3/4" GALV. PIPE

"P" STA. 268+63.93

A SIGN

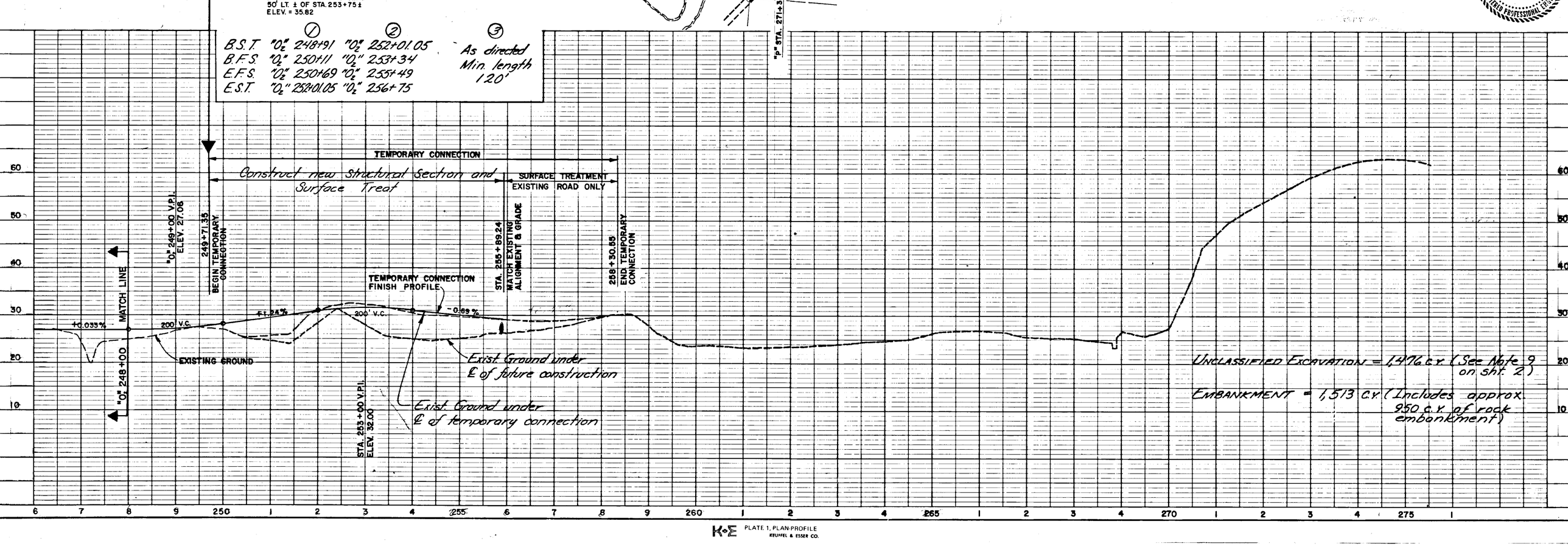
30" C.M.P.
VALVE

48" C.M.P.

"P" STA. 271+33.64

T.B.M. No. 23
SPIKE IN BASE OF 24" SPRUCE,
500' RT. ± OF STA. 266+70 ±
ELEV. = 31.10

	①	②	③
B.S.T.	"O" 248+91	"O" 252+01.05	As directed
B.F.S.	"O" 250+11	"O" 253+34	Min. length
E.F.S.	"O" 250+69	"O" 255+49	120'
E.S.T.	"O" 253+01.05	"O" 256+75	



UNCLASSIFIED EXCAVATION = 1,476 c.y. (See Note 9 on sht. 2)

EMBANKMENT = 1,513 c.y. (Includes approx. 950 c.y. of rock embankment)

STATE OF ALASKA
49TH
Wm L Baumgartner
WILLIAM L. BAUMGARTNER
REGISTERED PROFESSIONAL ENGINEER
NO. 1597-E

STATE OF ALASKA
49TH
George W. Davidson
GEORGE W. DAVIDSON
REGISTERED PROFESSIONAL ENGINEER
No. 1351-E

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS0987(5) 68914 (B-30212)	1985	9	9

B.O.P. STAGE III
RS-0987(5)

END PROJECT-STAGE III
"O2" 249+71.35 P.O.T.
249+71 TEMPORARY CONNECTION

LEGEND
- "P" LINE (Staked in field)
- "O" LINE (Calc. construction ℄)
- 2" ALUMINUM CAP MONUMENT (Set)
- 236 "P" LINE — "P" LINE CONTROL PT. NUMBER REFERENCED AND SET IN FIELD

HORIZONTAL CONTROL