

ENCL

Haines Fairbanks POL Communications

Chief Signal Officer

Cofingrs

17 March 1954
Mr. Gerber/73828/rb

1. Attached hereto is a copy of letter to the Division Engineer, North Pacific Division, dated 30 December 1953 with 4 indorsements thereto which approves the estimate and method of installation of the communication lines.

2. The approvals granted are those arrived at during the conference held 0930 hours 8 March attended by Majors Telequist and Hansen of your office and Mr. Osland, Fegin, Millard and Gerber of this office.

3. The instructions to the Division Engineer are furnished for your information and for formal confirmation of the approvals.

FOR THE CHIEF OF ENGINEERS:

1 Incl

Cy of NPD ltr dtd
30 Dec 53 w/4 lnds w/Incl

H. F. CAREY
Chief, Army Projects Division
Military Construction

RICHARDSON

cc: Unit w/d
MCD Reading File (3)
Dir & Eval Br., Rm 2434
Green Readin Gile (G&R)

MILLARD

CONKLIN

RECORD: Fwds our ltr to CSigO for formal confirmation as agreed on during meeting mentioned.

ENGNW (30 Dec 53)

4th Ind

SUBJECT: Haines Fairbanks POL Communications

Office of the Chief of Engineers, Washington 25, D. C. 17 March 1954

TO: Division Engineer, North Pacific Division, Corps of Engineers, U. S. Army, Portland 5, Oregon

1. The installation of the communications lines on a sand pad in the same trench as the pipe and adjacent thereto without any excavation beyond that required for burying the pipeline is approved. This method is described in paragraph 3 of the 2d indorsement, except in the cost which is to be revised to include:

a.	Install 25 quad cable		\$111,420
b.	Prorata share of 25 quad cable	\$225,896	
	Prorata cost of shipping	<u>20,000</u>	245,896
c.	Rebuild Whitehorse line	200,000	
d.	Equipment	100,000	
e.	Engr, Supv. & Cont.	<u>100,000</u>	400,000
f.	Telephone cable Haines to dock		24,800
g.	Cross arms Tok.Jct. to Alcan border		60,000
h.	Internal communications at all pump stations		30,000
i.	Contingencies on DE work 15% of l.a. above		21,000
j.	Gov't costs on DE work 9% of l.a. above		<u>13,000</u>
	Total		\$936,116

2. Item "a" is taken from the District Engineer's estimate of 29 January 1954. Item "b" is the prorata share of the cable cost and represents the correct cost for 7 quad cable. For your information the M.I.F.R signed by the Seattle office showed the cost prorated from Signal funds amounting to \$106,304 for the additional cable pairs (25 in lieu of 7) and \$43,712 for additional cost of shipping. The larger cable has a considerable increase in number of reels and therefore in weight, so the Signal Corps assumed the larger share of transportation. The comparative costs of the cable are taken from bids from the manufacturer supplying the cable. Items "b" thru "h" are in accordance with COE letter dated 15 February 1954 to your office, subject: "Communications - Haines-Fairbanks P. O.L. Pipeline."

3. The question of electrolytic action between the cable and the pipe has been settled. It has been developed that the current in the cable is around sixty mili-amperes and some of the circuits will be alternating current; neither of these are sufficient to cause deterioration through electrolytic action. The cable cover will be bonded to the pipe at intervals of about 1 mile which will further lessen any electrolysis. For these reasons the

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Installation of the cable in a separate trench is considered unwarranted and the expenditure of over \$500,000 for use of a separate trench for the cable is not justified. On this basis the estimate Exhibit "A" is not approved. The use of overhead wires proposed in Exhibits "C" and "D" is considered unsatisfactory. Since it was found necessary to bury the pipe in this area to protect it from damage from snow and slides, it is also advisable to bury the communication cable to obtain protection against damage to the cable. Exhibit "E" is now the same as the adjusted estimate listed in paragraph 1 above.

4. The representatives of the Office of the Chief Signal Officer have stated that there will be no charges for the submarine cable between Haines and Skagway since the existing cable is in good operating condition. Also, the cost of the connections between pump Stations 2A, 2B, and 3 and Big Delta, Nielson and Ladd signal lines are included in the \$100,000 for equipment item "e".

5. The approvals listed herein have been obtained by agreement with the Office of the Chief Signal Officer. In view of the decisions, it is presumed that the District Engineer can complete the contract on installation of the cable and continue to transfer the indicated funds to the Signal Corps as the need arises.

6. As soon as the cable installation cost is more firmly fixed, a confirming estimate should be supplied to this office.

7. Preceding indorsements have been noted "regraded unclassified when separated from classified inclosures." The only reason for the original classification was the inclosure to the basic letter. This was withdrawn by the 2d indorsement.

BY COMMAND OF MAJOR GENERAL STURGIS:

1 Incl
 n/c 1 cy w/d

H. F. SAREY
 Chief, Army Projects Division
 Military Construction

RICHARDSON

MILLARD

cc: Unit w/d
 MCD Reading File (3)
 Dir & Eval Br., Rm 2434
 Green Reading File (C&R)
 OCSigO w/cy Ltr dtd 30 Dec 53
 w/3 inds w/incl
 Mr. Engel, Engr Div.

CONKLIN

RECORD: Estimates for communication costs were sent in with request for decision at Washington level in view of differences in methods. Above decision made in conference with Majors Telequist and Hansen, OCSigO, Mr. Fein and Oslund Engr Div and Mr. Millard and Mr. Gerber, CIB. Signal will formally confirm by separate DF on receipt of the copy of this letter.