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## **Susitna River Hydrographic Maps**

Prepared by North Pacific Aerial Surveying, Inc.

January 1981

Project 052216

The original Mylar maps are available in a locked map case in the map alcove at Alaska Resources Library and Information Services (ARLIS). Ask for assistance.

These maps are printed out for general circulation and are available in PDF format. See the catalog record for links and for more information. The high resolution file is very large. A low resolution file is made available for general viewing.

Sheets are numbered from "sheet 2 of 37" to "sheet 37 of 37". Existence of sheet "1 of 37" is unknown.

Each map is also assigned a drawing number. Each map is numbered 17-3 to 17-38. The number 17 refers to box (that is, map drawer) 17 in the map case.





G: Location of temporary benchmark - aluminum cap, nail or rebar.  
62: Numbers refer to cross-section numbers, i.e., 62 < LIXX-EZ.

△ - Staff gage site  
⊕ - Thermograph location  
▲ - Stage recorder

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
61	TBM 103	-	846.92	Spike set in 14" cottonwood tree near edge of vegetation along right bank of Portage Creek.
62	TBM 152	-	841.12	Rebar set on right bank of Susitna River just upstream from Portage Creek near Crest Stage Gage.
TBM "Photo"	-	-	-	Aluminum cap at Photo Panel on right bank at confluence of Portage Creek near Crest Stage Gage.

ACRES  
ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER

HYDROGRAPHIC MAPS

RSM  
R&M CONSULTANTS, INC.  
DATE: JAN. 1981  
SCALE: 1" = 500'  
DEPARTMENT:  
DRAWING NO.:  
REV.:  
PROJECT: 052216  
SHEET 2 OF 37

REV. OF SHEET NO. DRAWING NO.

10 9 ↑ 8 ↑ 7 ↑ 6 ↑ 5 ↑ 4 ↑ 3 ↑ 2 ↑ 1

10

9

8

7

6

5

4

3

2

A Prepared by NORTH PACIFIC AERIAL SURVEY INC.  
B Revision

1



O: Location of temporary benchmark - aluminum cap, nail or rebar.  
EZ: Numbers refer to cross-section numbers, i.e. EZ = LRX-EZ.

Total channel blockage

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
60	LRX-60	11+00	531.87	Aluminum cap on top of left bank.

- 17-4 3837 -

CHARTING NO. 1000  
SHEET 37

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

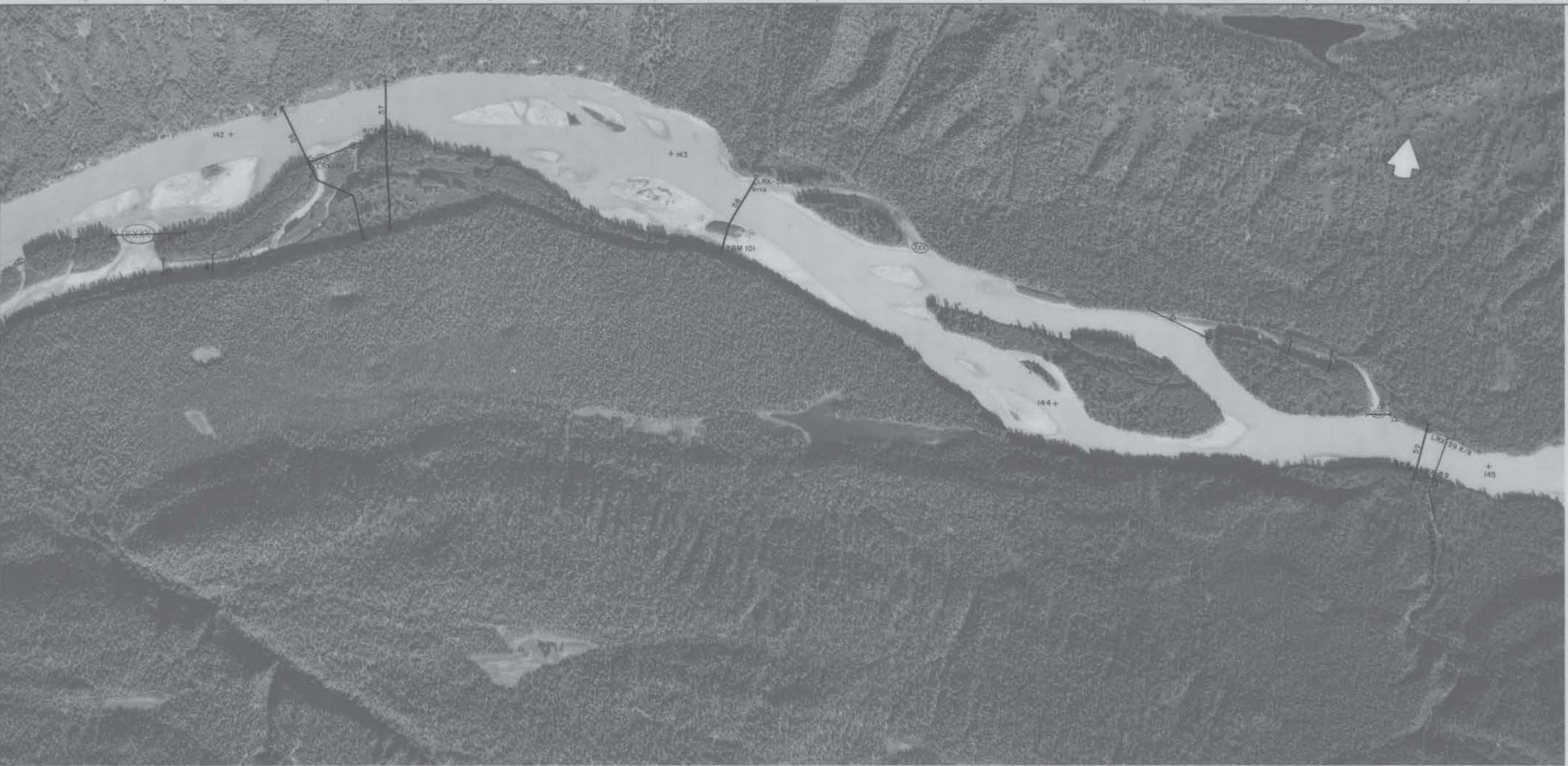
SUSITNA RIVER

HYDROGRAPHIC MAPS

RSM	DATE: JAN 1981	SCALE 1"=500'
R & M CONSULTANTS, INC.	DEPARTMENT	DRAWING NO.
		PROJECT 052216
		HEET 3 OF 37

MURKIN 44-132 R0975 10 | 9 ↑ 8 | 7 ↑ 6 | 5 ↑ 4 | 3 ↑ 2 | 1

APPLIED GEODESY MONITORING CIVIL CONTRACTOR ELECTRON. GEOTECHNICAL HYDRAULIC MECHANICAL DESIGNERS DESIGNS DRAWINGS



O: Location of temporary benchmarks - aluminum cap, nail or rebar.  
S2: Numbers refer to cross-section numbers, i.e., S2 = LRX-S2.

(X) Total channel blockage  
X Grid sample location

△ - Staff gauge site  
▲ - Stage recorder

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
56	LRX-56	15+72	766.30	Aluminum cap on top of bank at upstream end of island.
57	LRX-57	11+00	761.63	Aluminum cap on top of left bank.
58	TBM 101	-	767.05	Rebar set at toe of steep slope on left bank at LRX-58.
59	LRX-59 R/B	18+45	773.41	Bottom nail set in root of cottonwood tree offset 20 feet downstream along top of right bank.
59	LRX-59	11+00	766.80	Aluminum cap on top of left bank.
59	LRX-59 R/B	15+89	767.59	Stai set in base of 18° cottonwood tree with ice scar offset 10 feet upstream from cross-section line along top of right bank.

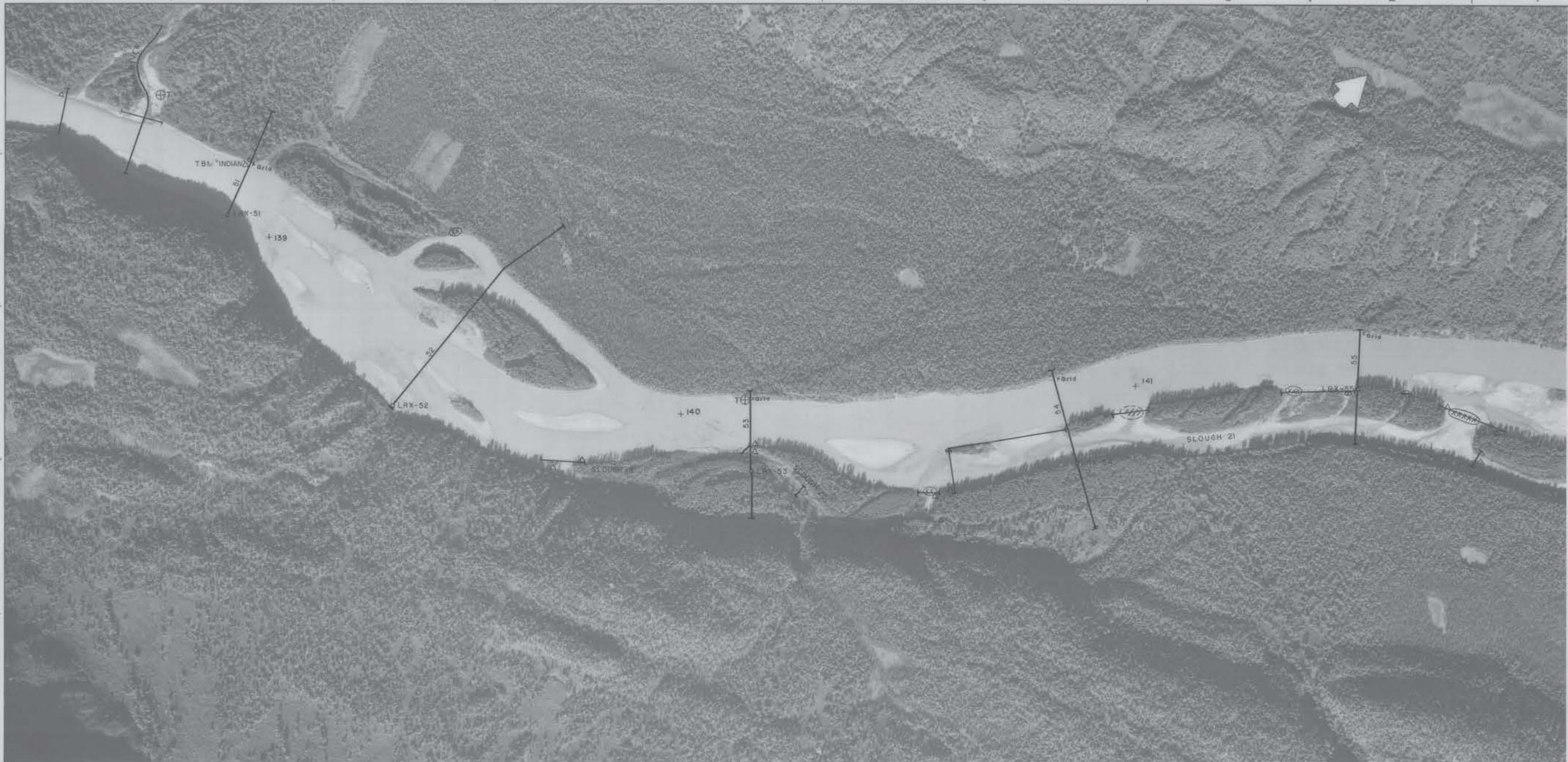
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ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER

HYDROGRAPHIC MAPS

RSM	DATE JAN. 1981	SCALE 1"=500'
R.M. CONSULTANTS, INC.	DEPARTMENT	DRAWING NO.
PROJECT 05221B	CH. APP.	REV.
	REVISIONS	



① Location of temporary benchmark - aluminum cap, nail or rebar.  
② Numbers refer to cross-section numbers, i.e. 62 = LRX-62.

③ Total channel blockage  
④ Partial channel blockage  
X Grid sample location

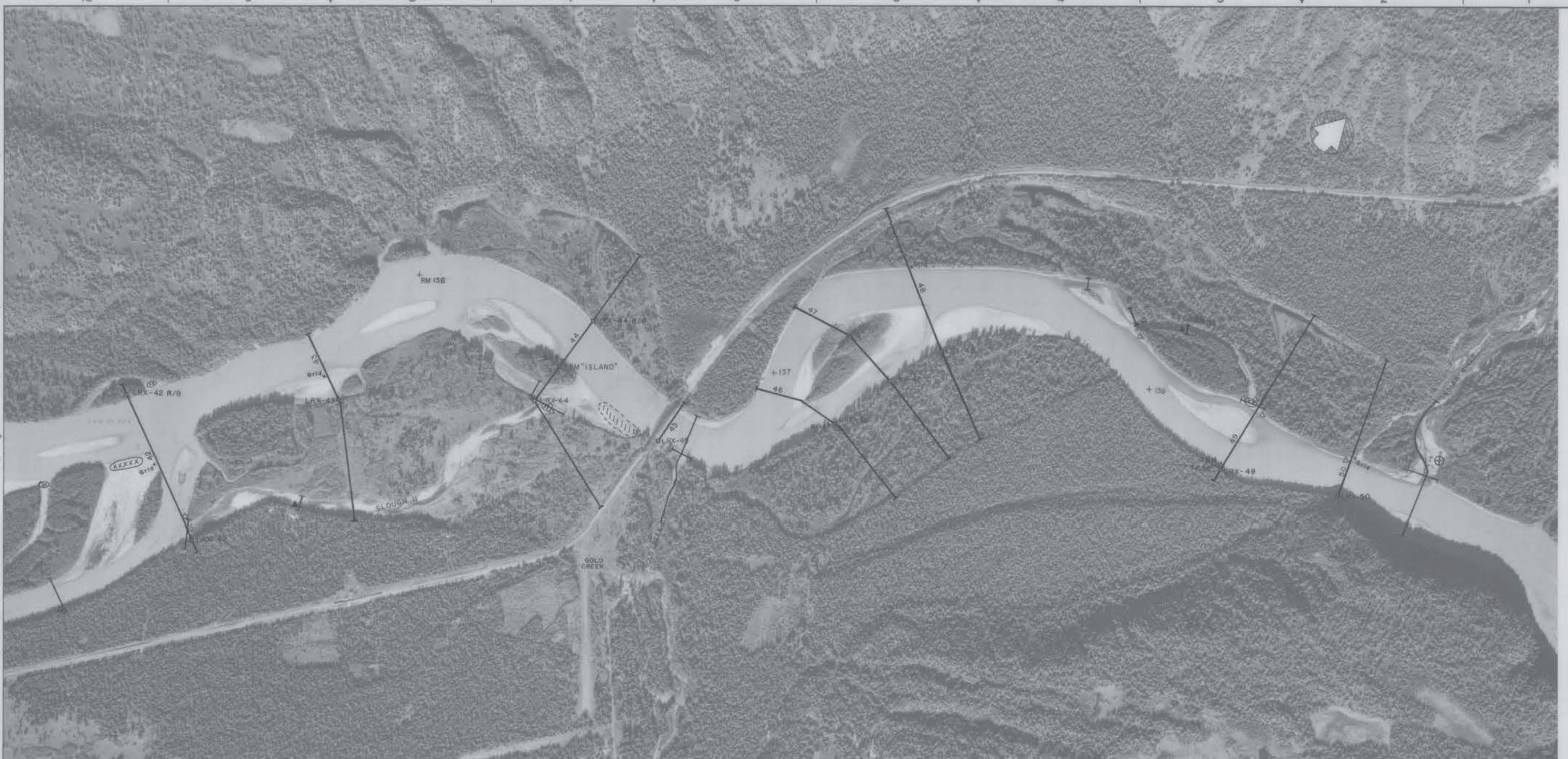
△ Staff gauge site  
⊕ Thermograph location

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
51	LRX-51	10+00	717.66	Aluminum cap on slope of left bank.
"Indian"		16+80	716.01	Nail set in 6" cottonwood tree offset 20 feet downstream along top of right bank.
52	LRX-52	10+00	725.67	Aluminum cap on slope of left bank.
53	LRX-53		733.76	Aluminum cap on terrace, left bank, near toe of second, higher terrace.
54	LRX-54	11+36	741.20	Aluminum cap on top of left bank.
55	LRX-55	16+27	748.51	Aluminum cap on top of left bank of main channel; right side of mid-channel island.

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DRAWING NO. SHEET NO. REV. B

<b>ACRES</b>	ALASKA POWER AUTHORITY	
	SUSITNA HYDROELECTRIC PROJECT	
SUSITNA RIVER		
HYDROGRAPHIC MAPS		
<b>RSM</b> R&M CONSULTANTS INC.	DATE JAN. 1981	SCALE 1"=500'
	DEPARTMENT	DRAWING NO.
PROJECT 052216		REV. A
SHEET 5 of 37		



01 Location of temporary benchmark - aluminum cap, nail or rebar.  
02 Numbers refer to cross-section numbers, i.e. 62 = LRX-62.

(X) Total channel blockage  
(P) Partial channel blockage  
○ Grid sample location

△ Staff gage site  
▲ Stage recorder  
⊕ Thermograph location

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
42	LRX-42	12+00	703.81	Aluminum cap on top of left bank.
	LRX-42 R/B	30+23	678.71	Nail set in cottonwood tree with ice scar offset 12 feet downstream along top of bank.
43	LRX-43	24+20	683.11	Aluminum cap on left bank of main channel.
44	LRX-44	23+97	688.87	Aluminum cap at angle point on far left bank.
"Island"		27+90	693.60	Nail set in top of 18" cottonwood stump on line on right side of island.
	LRX-44 R/B	34+41	693.48	Nail set in 18" cottonwood tree with ice scar offset 9 feet downstream along top of right bank.
45	LRX-45	11+60	690.81	Aluminum cap on top of left bank.
46	LRX-46	11+00	700.17	Aluminum cap on top of left bank.
47	LRX-47	11+00	700.48	Aluminum cap on top of left bank.
	TBM "G"	18+42	697.42	Nail in ground at angle point on Island near downstream end of more mature vegetation.
48	LRX-48	11+00	700.48	Aluminum cap on top of left bank.
49	LRX-49	11+65	733.40	Aluminum cap on top of left bank.
"TP 36"		12+00	701.51	Nail set in base of tree offset downstream approximately 20 feet along toe of terrace.
50	LRX-50	10+00	708.34	Aluminum cap on steep bedrock slope, left bank.

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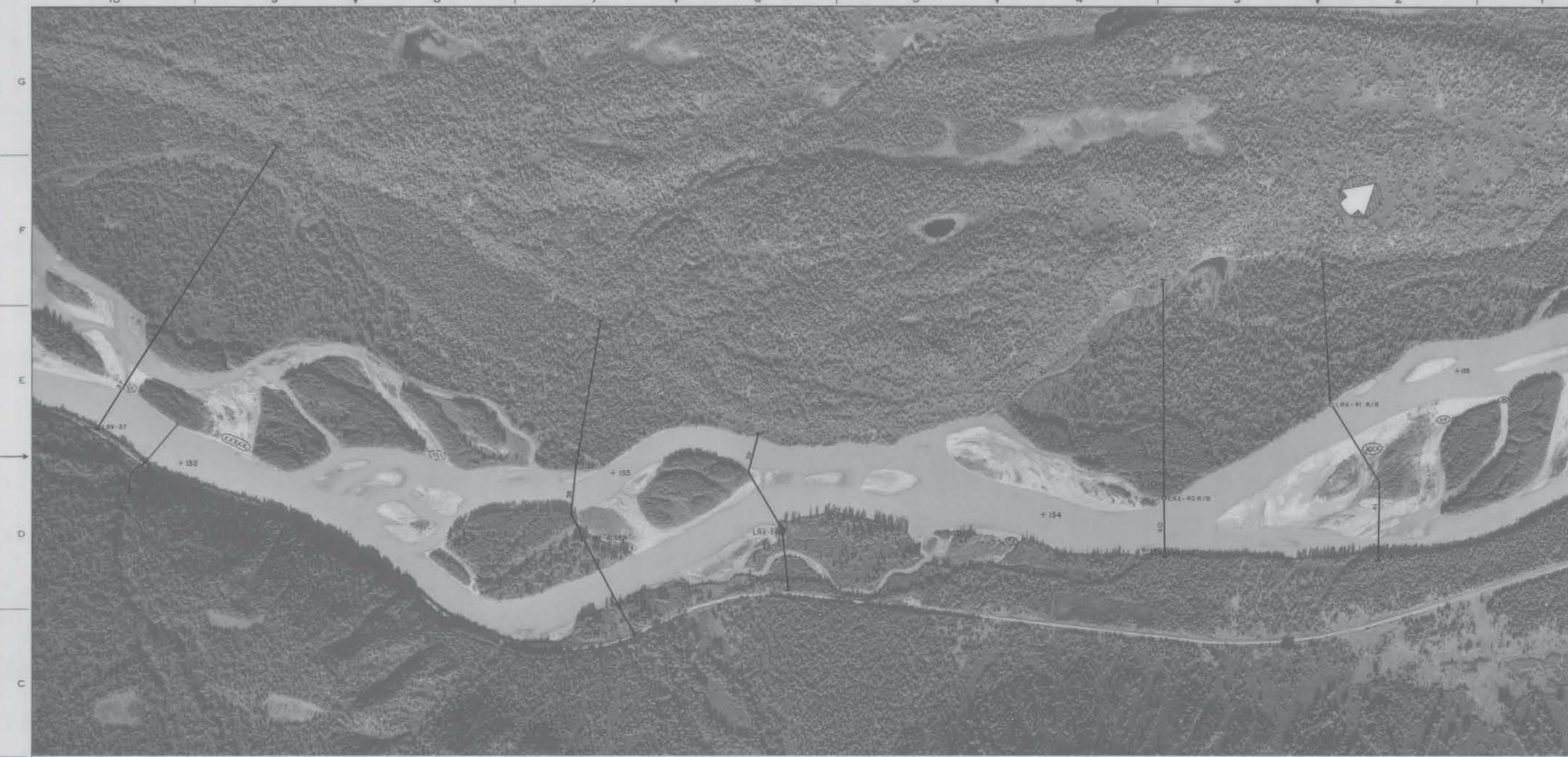
ACBES  
ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER

HYDROGRAPHIC MAPS

R&M  
R & M CONSULTANTS, INC.  
DATE: JAN. 1981  
DEPARTMENT:  
DRAWING NO.: 052216  
REV.:  
PROJECT: 052216  
SHEET: 6 of 37  
PRINTED: 1/10/81  
DRAWN: BY: J. W. HARRIS  
CHECKED: BY: J. W. HARRIS  
APPROVED: BY: J. W. HARRIS

DATE NO.	REVISIONS	CH.	APP.	APS.
APPLIED MECHANICS ARCHITECTURAL GDS. CONSTRUCTION ELECTRICAL GEOTECHNICAL HYDRAULIC MECHANICAL DESIGNED DRAWN SHEETS				



O: Location of temporary benchmark - aluminum cap, nail or reber.  
E2: Numbers refer to cross-section numbers, i.e. E2 = LRX-62.

◎ Total channel blockage  
○ Partial channel blockage

△ Staff gauge site  
x Grid sample location

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
37	LRX-37	10+09	850.08	Aluminum cap top of left bank.
38	LRX-38	11+94	842.88	Aluminum cap top of left bank, east channel.
"Alder"	"Alder"	20+49	850.69	Nail set in alder on line on midchannel island.
39	LRX-39	17+56	852.06	Aluminum cap top of left bank.
40	LRX-40	10+55	876.53	Aluminum cap top of left bank.
	LRX-40 R/B	17+21	863.30	Nail in 14" cottonwood on line.
41	LRX-41	11+00	703.01	Aluminum cap on top of left bank.
	LRX-41 R/B	30+29	864.55	Nail set in old stump offset 2 feet upstream of cross-section line along line of bank.

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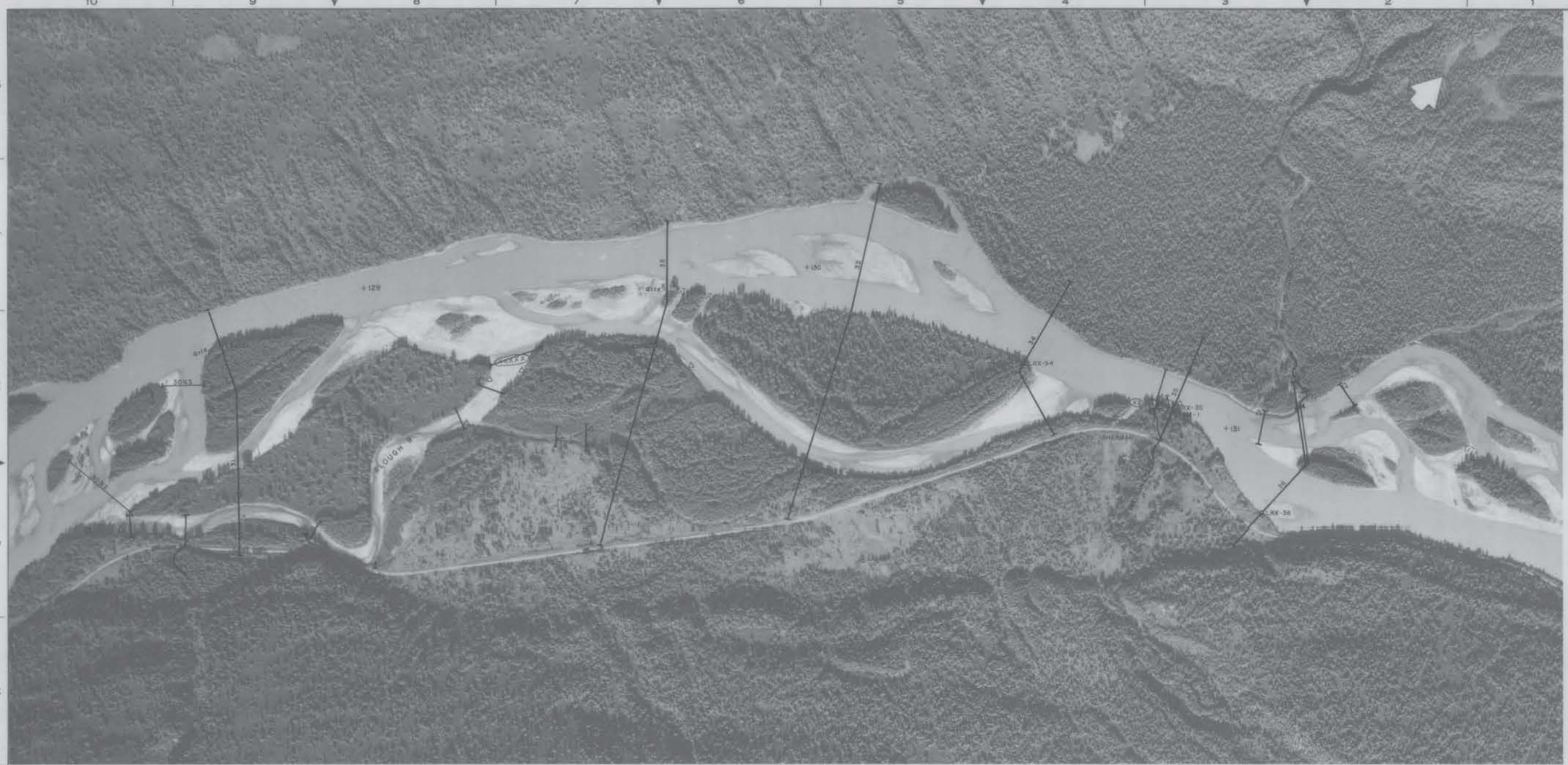
ACRES  
ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER

HYDROGRAPHIC MAPS

R&M E&M CONSULTANTS INC.	DATE JAN. 1981	SCALE 1" x 500'
	DEPARTMENT	DRAWING NO.
	PROJECT 052216	Sheet 7 of 37

APPLIED MECHANICS ARCHITECTURE/CIVL. CONSTRUCTION ELECTRICAL GEOTECHNICAL HYDRAULIC MECHANICAL PLANT OPS. DESIGNERS DESIGNERS CHECKED



O1 Location of temporary benchmark = aluminum cap, nail or rebar.  
S2 Numbers refer to cross-section numbers, i.e. S2 = LRX-S2.

Total segment blocks  
Partial segment blocks

△- Staff gear site  
⊕ T- Thermograph site

#### A.1 雷达信号子带中心频率

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
31	LRX-31	34+30	603.50	Aluminum cap top left bank of main channel.
32	LRX-32	13+33	608.72	Aluminum cap top of far left bank.
33	TBM "Tree"	-	618.05	Hail east in 12' cottonwood approximately 80 feet southeast from top of bank.
	LRX-33	25+77	615.53	Aluminum cap top of left bank, main channel.
34	LRX-34	18+60	625.38	Aluminum cap top of left bank, main (west) channel.
35	LRX-35	13+67	626.58	Aluminum cap top of left bank at Crest Stage Gage.
	TBM-1	-	630.49	Spike in 60' cottonwood tree up a small gully from Crest Stage Gage.
36	LRX-36	14+47	621.37	Aluminum cap top of left bank.

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ALASKA POWER AUTHORITY  
NATITNA HYDROELECTRIC PROJECT

#### SUSITNA RIVER

HYDROGRAPHIC MAPS



O1 Location of temporary benchmarks - aluminum cap, nail or rebar.  
O2 Numbers refer to cross-section numbers; i.e. 52 = LRX-52.

(O) Total channel blockage  
(O) Partial channel blockage

(T) Thermograph location  
(G) Grid sample location

(S) Stage recorder

(A) Staff gauge site

CROSS SECTION	TRM NAME	STATION	ELEVATION	DESCRIPTION
29	LRX-29	24+00	578.43	Aluminum cap top of left bank.
30	LRX-30	21+62	+ 596.07	Aluminum cap top of left bank.

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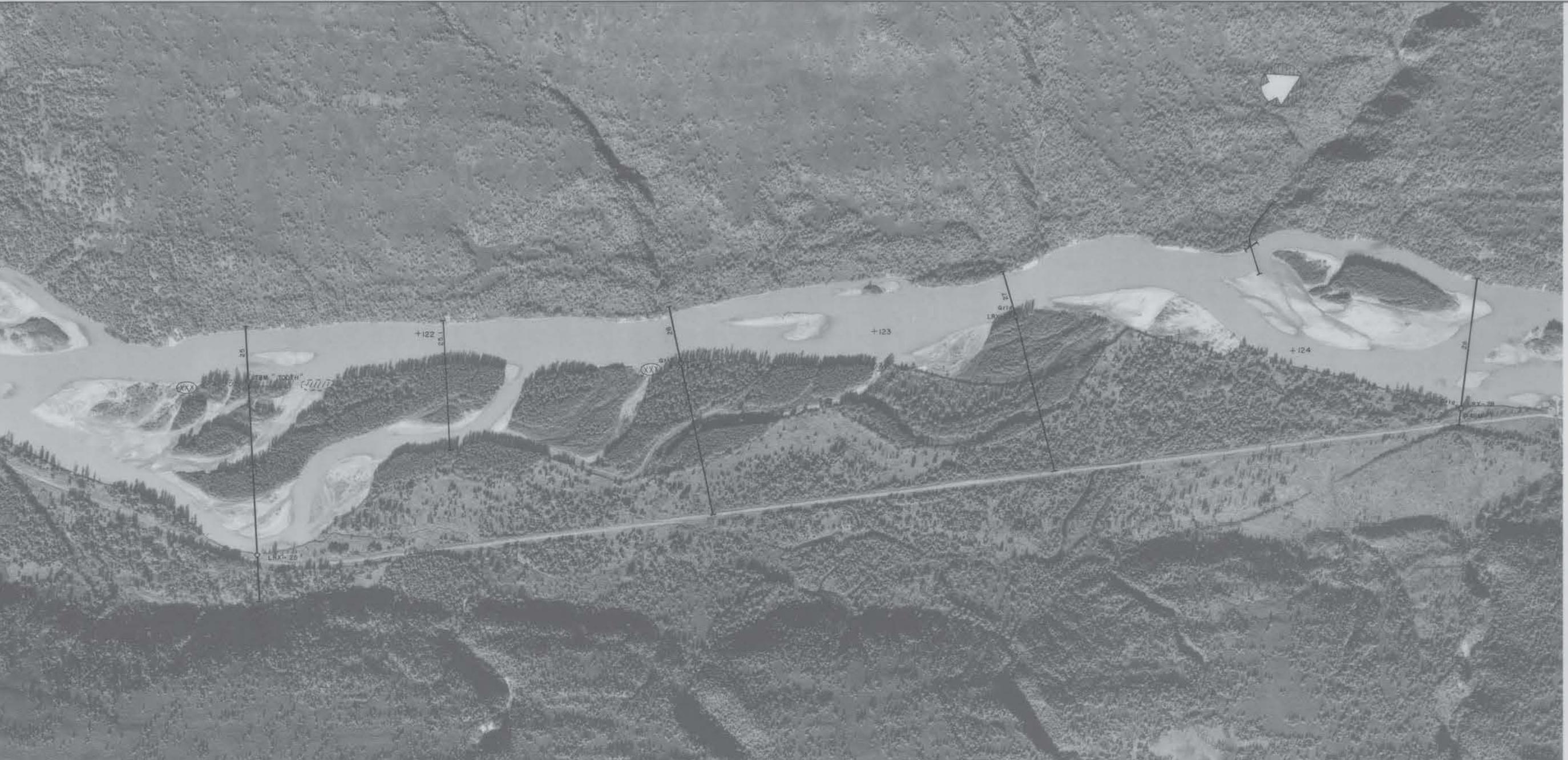
ACIES  
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SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER

HYDROGRAPHIC MAPS

R&M CONSULTANTS INC.	DATE JAN 1981	SCALE 1"=500'
	DEPARTMENT	DRAWING NO.
		REV.
	PROJECT 052216	SHET 9 OF 37

APPLIED RESOURCE	ARCHITECTURAL/CIVIL	CONSTRUCTION/ELECTRICAL	SEISMICAL/HYDRAULIC/MECHANICAL	DESIGNED DRAWN	CHANGED CHECKED



O: Location of temporary benchmark - aluminum cap, nail or rebar.  
B2: Numbers refer to cross-section numbers, i.e. 62 = LRX-62.

(X) Total channel blockage  
(P) Partial channel blockage  
X Grid sample location

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
25	LRX-25	16+52	536.55	Aluminum cap top of left bank.
	"Tooth"	25+60	539.50	Nail in 16" cottonwood stump offset 10 feet downstream of cross-section line near top of left bank - main channel.
26	LRX-26	25+05	547.00	Aluminum cap top of left bank.
27	LRX-27	23+18	552.71	Aluminum cap top of left bank.
28	LRX-28	11+53	581.00	Aluminum top of left bank near Crest Stage Gage.
	TBM-1	-	589.48	Spike in 48" cottonwood tree up on bank about 50 feet beyond Crest Stage Gages.

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DRAWING NO. SHEET OF REV. OF

APRES		ALASKA POWER AUTHORITY							
		SUSITNA HYDROELECTRIC PROJECT							
SUSITNA RIVER HYDROGRAPHIC MAPS									
RSM		DATE JAN. 1981 SCALE 1" = 500'							
		DEPARTMENT DRAWING NO. REV.							
		R&M CONSULTANTS, INC. PROJECT 052216 SHEET 10 OF 37							
<table border="1"> <tr> <td>DATE</td> <td>NO.</td> <td>REVISIONS</td> <td>CH.</td> <td>APP.</td> <td>APP.</td> </tr> </table>				DATE	NO.	REVISIONS	CH.	APP.	APP.
DATE	NO.	REVISIONS	CH.	APP.	APP.				



G: Location of temporary benchmark - aluminum cap, nail or rebar.  
62: Numbers refer to cross-section numbers, i.e. 62 = LRX-62.

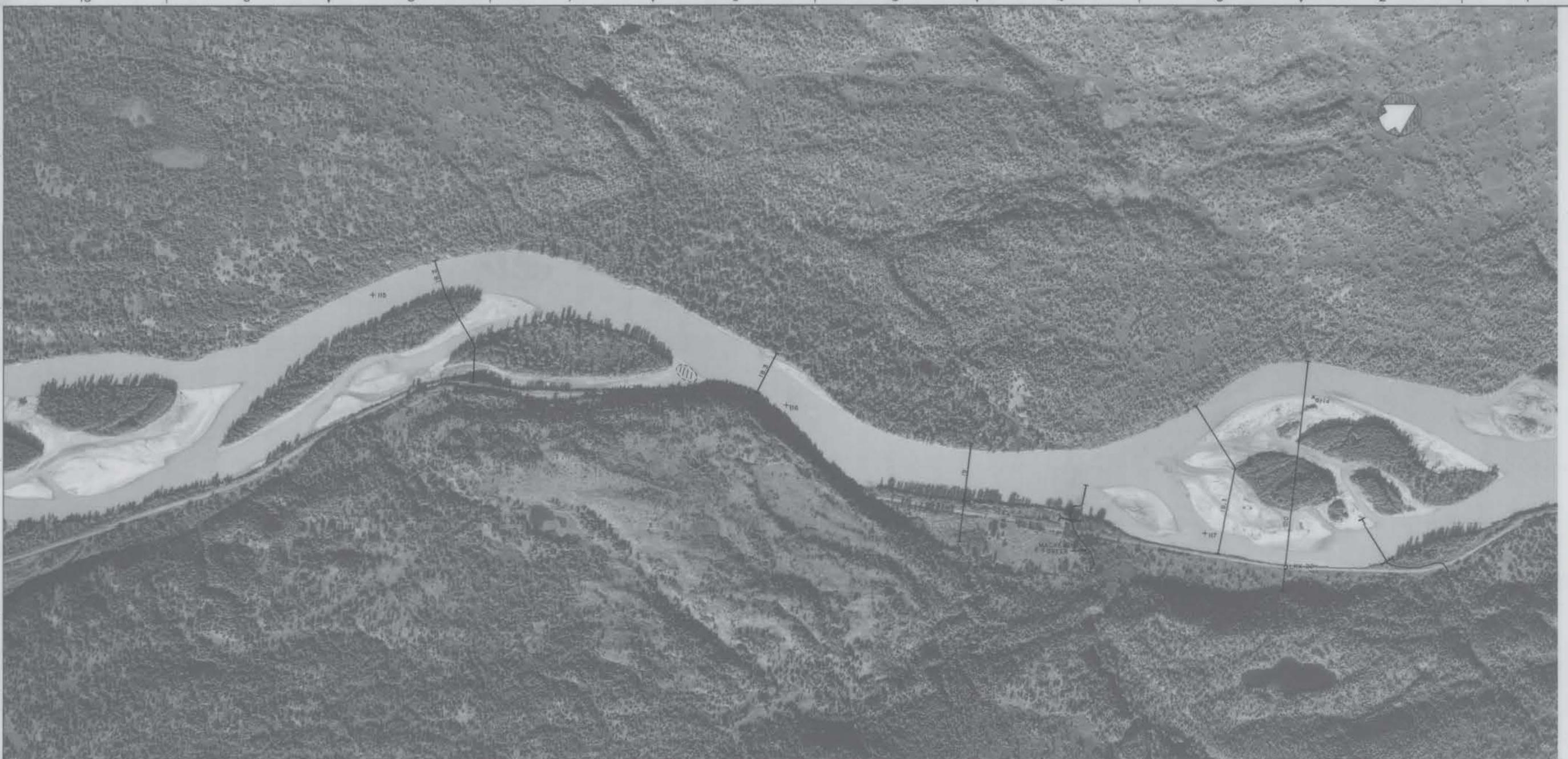
(X) Total channel blockage  
△= Staff gage  
H Partial channel blockage  
X Grid sample location  
⊕ T= Thermograph location

CROSS SECTION	TIME NAME	STATION	EL. ELEVATION	DESCRIPTION
21	LRX-21	1+28	523.74	Aluminum cap top of left bank.
	"Furn"	20+62	518.84	Nail set in cottonwood tree with ice scar, offset 50 feet downstream of cross-section line along top of bank.
22	"RBM 245"		526.67	Spike set in R.R. tie on west side of tracks, 15 rails north of R.R. bridge at M.P. 247.2 - cross-section 22 is approximately 50 feet south of RBM 245.
23	LRX-23	13+33	530.53	Aluminum cap top of left bank.
	"Flu"	23+83	528.18	Nail set in base of 15" spruce at angle point on island.
24	LRX-24	11+00	531.39	Aluminum cap top of left bank.
	TBM-1	-	534.20	Spike in 15" spruce tree up on bank; about 50 feet from Crest Stage Gage.

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ACRES		ALASKA POWER AUTHORITY	
		SUSITNA HYDROELECTRIC PROJECT	
SUSITNA RIVER			
HYDROGRAPHIC MAPS			
RSM		DATE JAN. 1981	SCALE 1" = 500'
R & M CONSULTANTS, INC.		DEPARTMENT	DRAWING NO.
		PROJECT: 002216	SHEET II of 57
DATE	NO.	REVISIONS	CH. APP. APP.
APPLIED MECHANICS	ARCHITECTURAL DIV.	CONSTRUCTION	ELECTRICAL
BOTANICAL	HYDRAULIC	MECHANICAL	DESIGNED DRAWN CHECKED

A Prepared by NORTH PACIFIC AERIAL SURVEY, INC.  
ANCHORAGE, ALASKA



C: Location of temporary benchmark - aluminum cap, nail or rivet.  
62: Numbers refer to cross-section numbers, i.e., 62 = LSX-62.

Partial channel storage  
E: Grid sample location

CROSS-SECTION	FROM NAME	STATION	ELEVATION	DESCRIPTION
19	LSX-19	15+68	406.41	Aluminum cap top of left bank.
20	LSX-20	13+09	503.98	Aluminum cap top of left bank.

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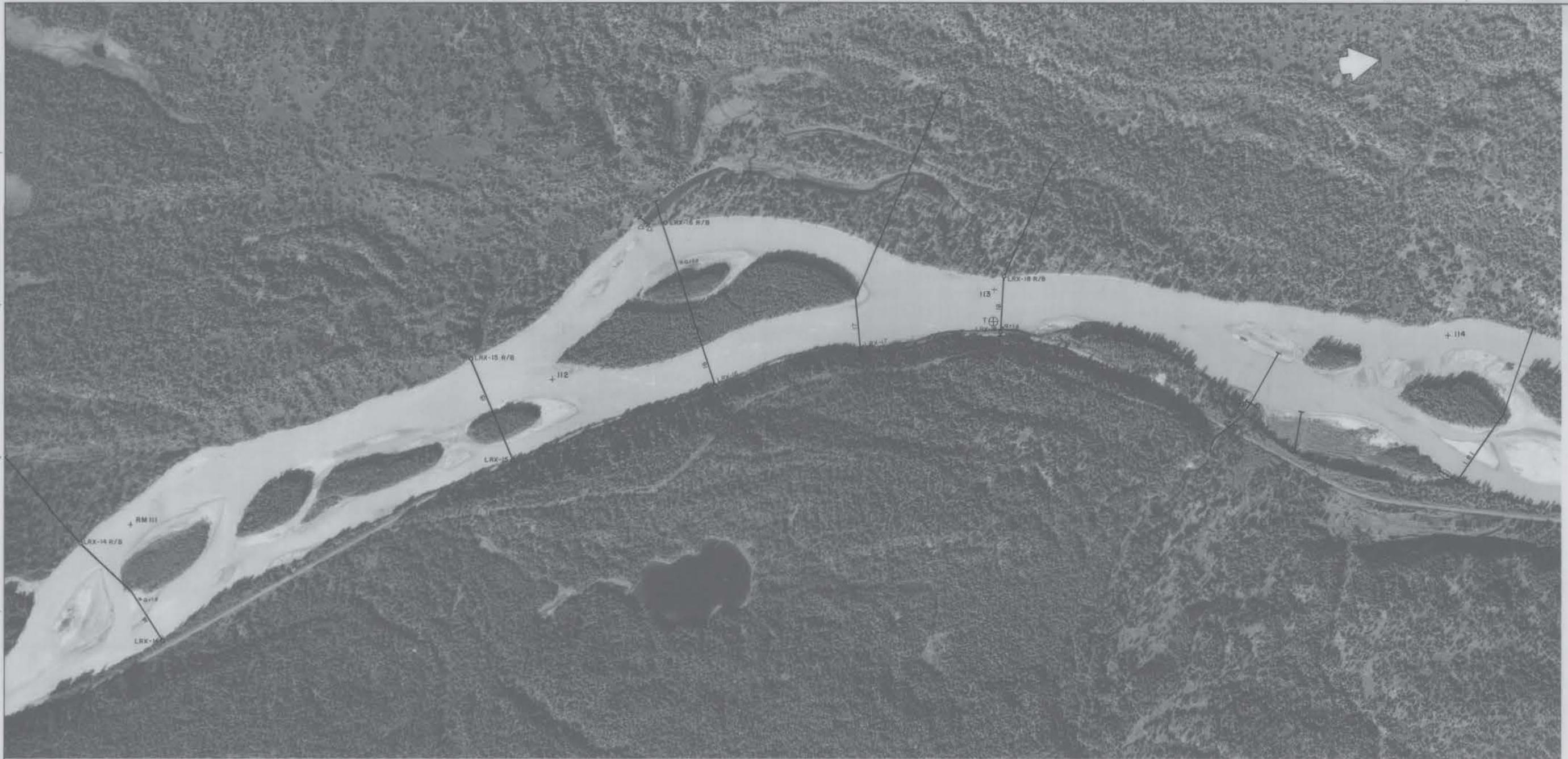
ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

#### SUSITNA RIVER

#### HYDROGRAPHIC MAPS

R&M CONSULTANTS, INC.	DATE JAN. 1981	SCALE 1" = 500'
	DEPARTMENT	DRAWING NO.
	PROJECT 05221B	REV. 12 of 37

DATE NO.	REVISIONS	CH. APP. API.
APPLIED MECHANICS	ARCHITECTURAL CIVIL	CONTRACTOR ELECTRICAL
MECHANICAL HYDRAULIC	MECHANICAL	DESIGNED DRAWN CHECKED



(1) Location of temporary benchmark - aluminum cap, nail or rebar.  
 (2) Numbers refer to cross-section numbers; i.e. 62 = LRX-62.

(3) Total channel blockage  
 (4) Grid sample location

(5) Staff gauge  
 (6) Thermograph location

CROSS SECTION	TERM NAME	STATION	ELEVATION	DESCRIPTION
14	LRX-14	10+09	450.92	Aluminum cap top of left bank.
	LRX-14 R/B	25+16	450.66	Rebar set in ground near toe of bank on line.
15	LRX-15	19+27	458.25	Aluminum cap top of left bank.
	LRX-15 R/B	23+00	457.73	Rebar set on right bank near toe of bluff.
16	LRX-16	10+33	469.58	Aluminum cap top of left bank.
	LRX-16 R/B	29+54	463.45	Spiral in 40° cottonwood offset 25 feet upstream and 20 feet west from top of right bank station.
17	LRX-17	10+35	471.99	Aluminum cap top of left bank.
18	LRX-18	19+61	469.91	Aluminum cap top of left bank.
	LRX-18 R/B	16+88	471.44	Nail set in tree offset 2 feet upstream of cross-section line along top of bank.

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ALASKA POWER AUTHORITY  
 SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER

HYDROGRAPHIC MAPS

DRAWING NO.	REV. BY		
	DATE	JAN 1981	SCALE 1" = 500'
RSM CONSULTANTS, INC.	DEPARTMENT	BRANCH NO.	REV.
	PROJECT 052216	sheet 15 of 37	W
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DATE	NO.		



Or: Location of temporary benchmark - aluminum cap, nail or other.  
62- Numbers refer to cross-section numbers, i.e. 62 = LRD-62.

#### 五、Trial channel 试验渠道选择

CROSS SECTION	ITEM NAME	STATION	ELEVATION	DESCRIPTION
12	TMR 7208*	-	449.02	Spike in rethread tie 30 feet south of N.W. track culvert at Mile 238.62.
	LRX-12 R/B	16+64	424.38	Spike set in 25° cottonwood offset; 1 foot upstream of line at top of right bank.
13	LRX-13	10+38	454.43	Aluminum cap top of left bank.
	LRX-13 R/B	15+55	445.90	Nail set in-ground at top of right bank.
"Terrace"		-	446.12	Nail set in ground on west side of island at top of bank.
"Terrace"		-	448.95	Nail set in east side of large cottonwood approximately 175 feet upstream of line on top bank of lower terrace.

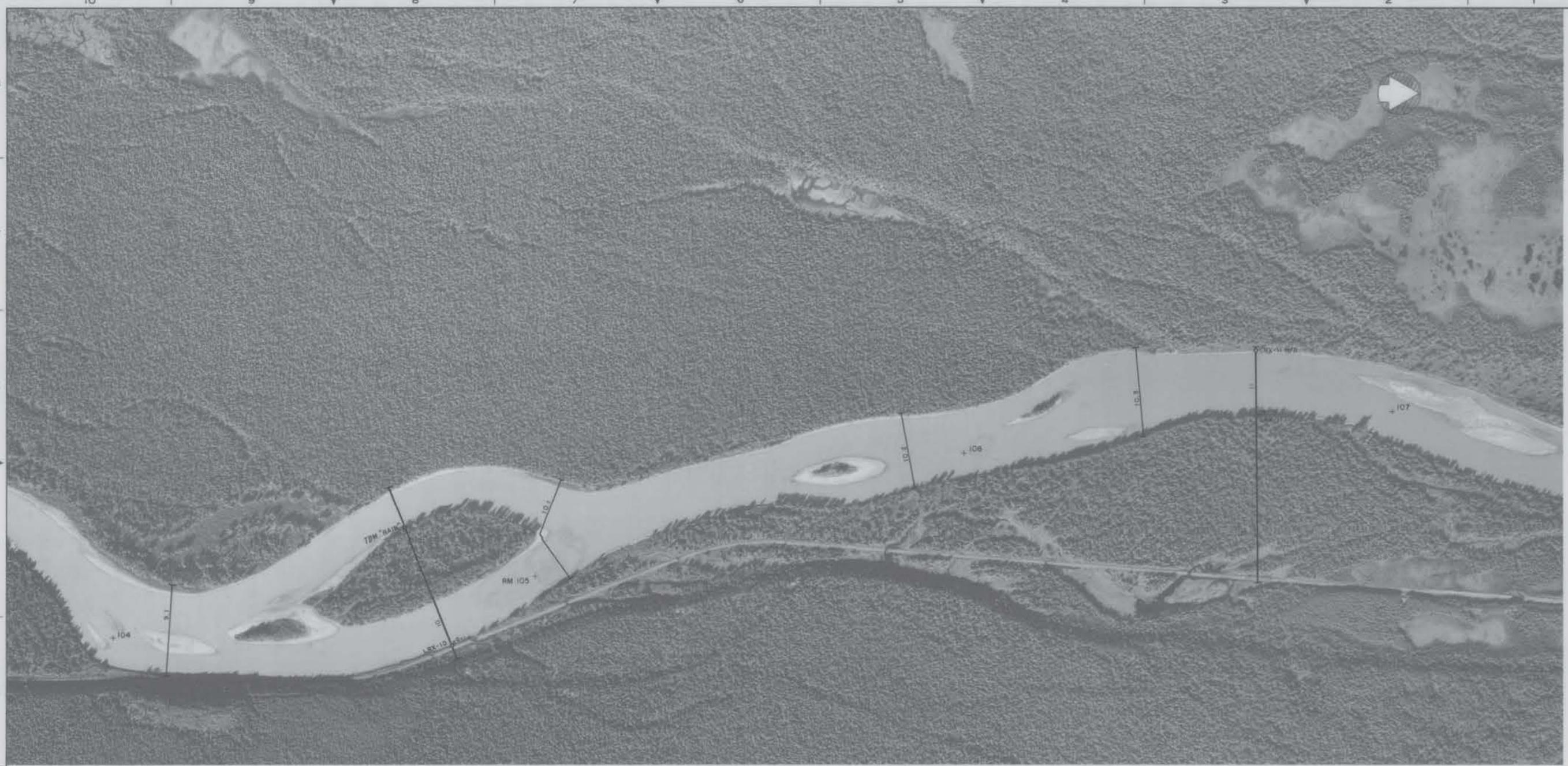
- 17-15 14 of 37 -



ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

## SUSITNA RIVER

## **HYDROGRAPHIC MAPS**



D: Location of temporary benchmark - aluminum cap, nail or rebar.  
 E: Numbers refer to cross-section numbers, i.e., 32 = LBN-32.  
 X: ERIC sample location.

CROSS SECTION	TBK NAME	STATION	ELEVATION	DESCRIPTION
10	LBN-10	11+00	410.15	Aluminum cap top of left bank.
"Rain"	25+00	404.83		Spikes set in north side of 28° cottonwood offset 38 feet downstream of cross-section line along top of bank on west side of island.
11	LBN-11	11+00	420.88	Aluminum cap top of left bank.
	LBN-11 R/R	18+70	413.28	Rebar set near toe of right bank approximately on line.

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	ALASKA POWER AUTHORITY							
	SUSITNA HYDROELECTRIC PROJECT							
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HYDROGRAPHIC MAPS								
DATE	JAN. 1981	SCALE 1"=500'						
NO.		DEPARTMENT						
		DRAWING NO.						
		PROJECT 052216						
		SHEET 15 OF 37						
R&M CONSULTANTS, INC.								
APPLIED MECHANICS	STRUCTURAL/CIVL	CONSTRUCTION	ELECTRICAL	HYDRAULIC	MATERIAL	DESIGNED	DRAWN	CHECKED



Q1 Location of temporary benchmark = aluminum cap, nail or rebar.  
B2 Numbers refer to cross-section numbers, i.e. B2 = LRX-62.

Total channel blockage  
 Partial channel blockage

Staff gage  
 Thermograph location

X Grid sample location

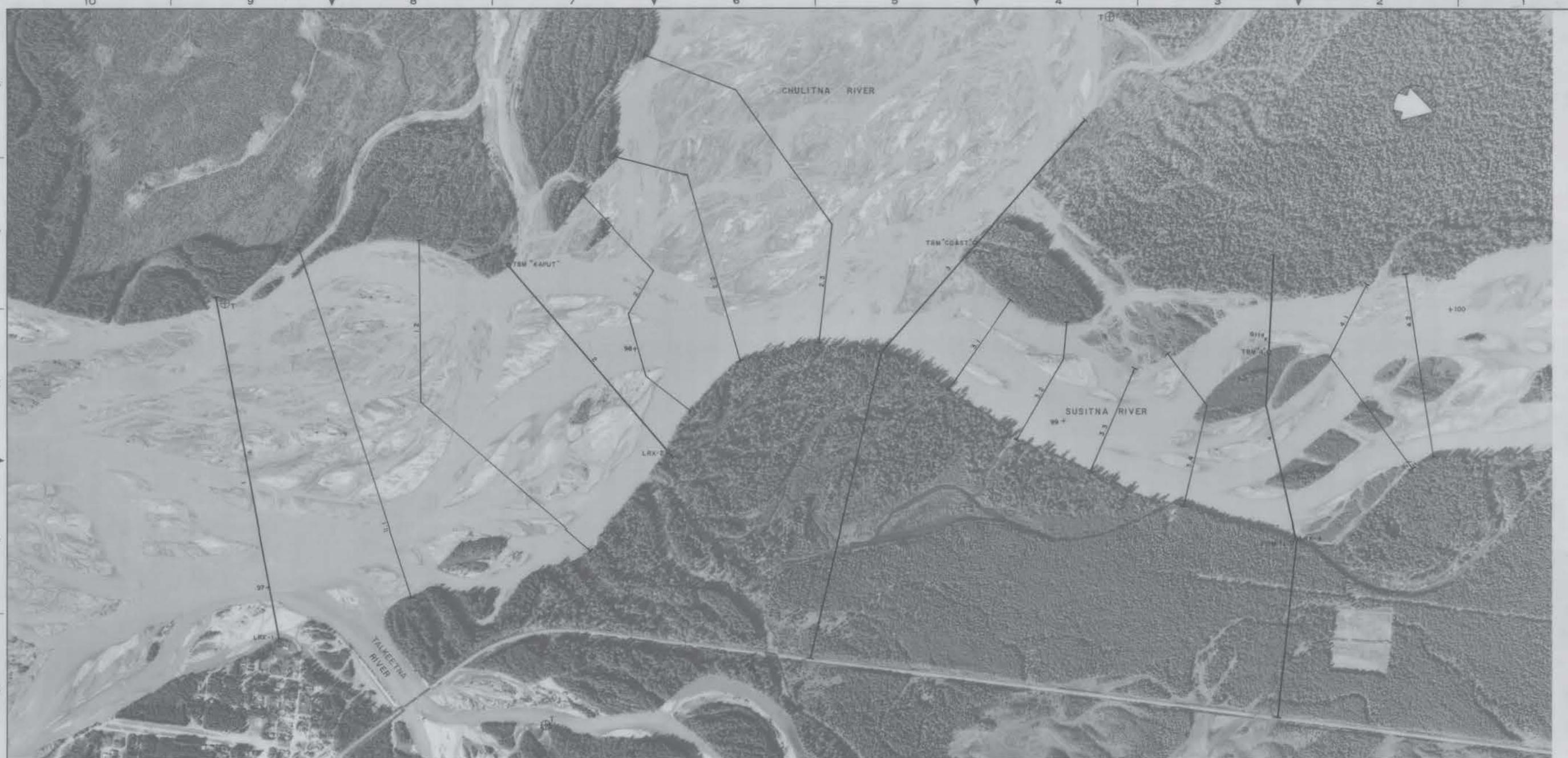
CROSS SECTION	TRM NAME	STATION	ELEVATION	DESCRIPTION
5	LRX-5	11+00	362.75	Aluminum cap set on top of far left bank.
	TBM "B"	20+00	362.40	Nail set in ground on west side of island, at top of bank.
6	LRX-6	11+00	371.18	Aluminum cap set on top of left bank.
	LRX-6 R/B	26+00	371.09	Rebar set on line at top of far right bank.
7	LRX-7	11+00	369.28	Aluminum cap set on top of left bank.
	"Wickers"	24+75	375.29	Rebar set on line 5' west of top right bank station.
8	LRX-8	11+00	385.64	Aluminum cap set on top of left bank.
	LRX-8 R/B	26+55	383.70	Rebar set on line 27 feet west of top of right bank station.
9	LRX-9	11+00	387.02	Aluminum cap set on top of left bank.
	TBM-1	-	397.06	Spike in 18" spruce tree approximately 100 feet shoreward from Crest Stage Gages.
	LRX-9 R/B	17+68	393.75	Nail set in north side of 18" spruce stump offset 5 feet upstream of line near top of bank.

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ALASKA POWER AUTHORITY  
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SUSITNA RIVER  
HYDROGRAPHIC MAP

DATE	NO.	REVISIONS	CH.	APP.	APP.
R&M CONSULTANTS, INC.					
PROJECT 052216					
SHEET 16 OF 37					



O: Location of temporary benchmark - aluminum cap, nail or rebar.  
E2: Numbers refer to cruise-section numbers, i.e. E2 = LRM-E2.

□ Partial channel blockage  
X Date sample location

⊕ Thermograph location

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
1	LRX-1	10+90	335.33	Aluminum cap set on left bank near edge of vegetation.
2	LRX-2	11+89	343.87	Aluminum cap set on top of left bank.
"Kaput"		34+01	341.68	Nail set in stump of fallen tree on line at top of far right bank.
3	LRX-3	30+00	346.45	Aluminum cap set on top of left bank.
"Coast"		48+74	349.68	Nail set in cottonwood log on bank of island.
4	LRX-4	-	352.20	Aluminum cap set on top of far left bank.
TBM-1	-	366.96	Spike in 10" spruce tree on top of hill directly above Crest Stage recorders.	
TBM "A"		32+02	354.31	Nail set in the ground on top of left bank on west channel at edge of slitter.

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AGNES  
ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER  
HYDROGRAPHIC MAPS

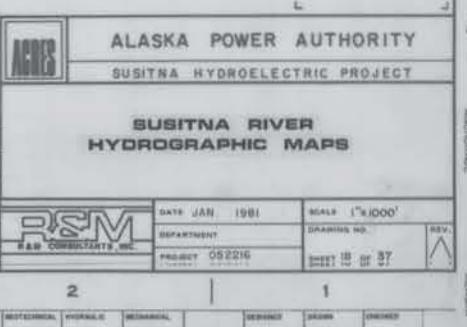
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R&M CONSULTANTS, INC.	DEPARTMENT	DRAWING NO.
		MAPS
	PROJECT 052216	sheet 17 of 37

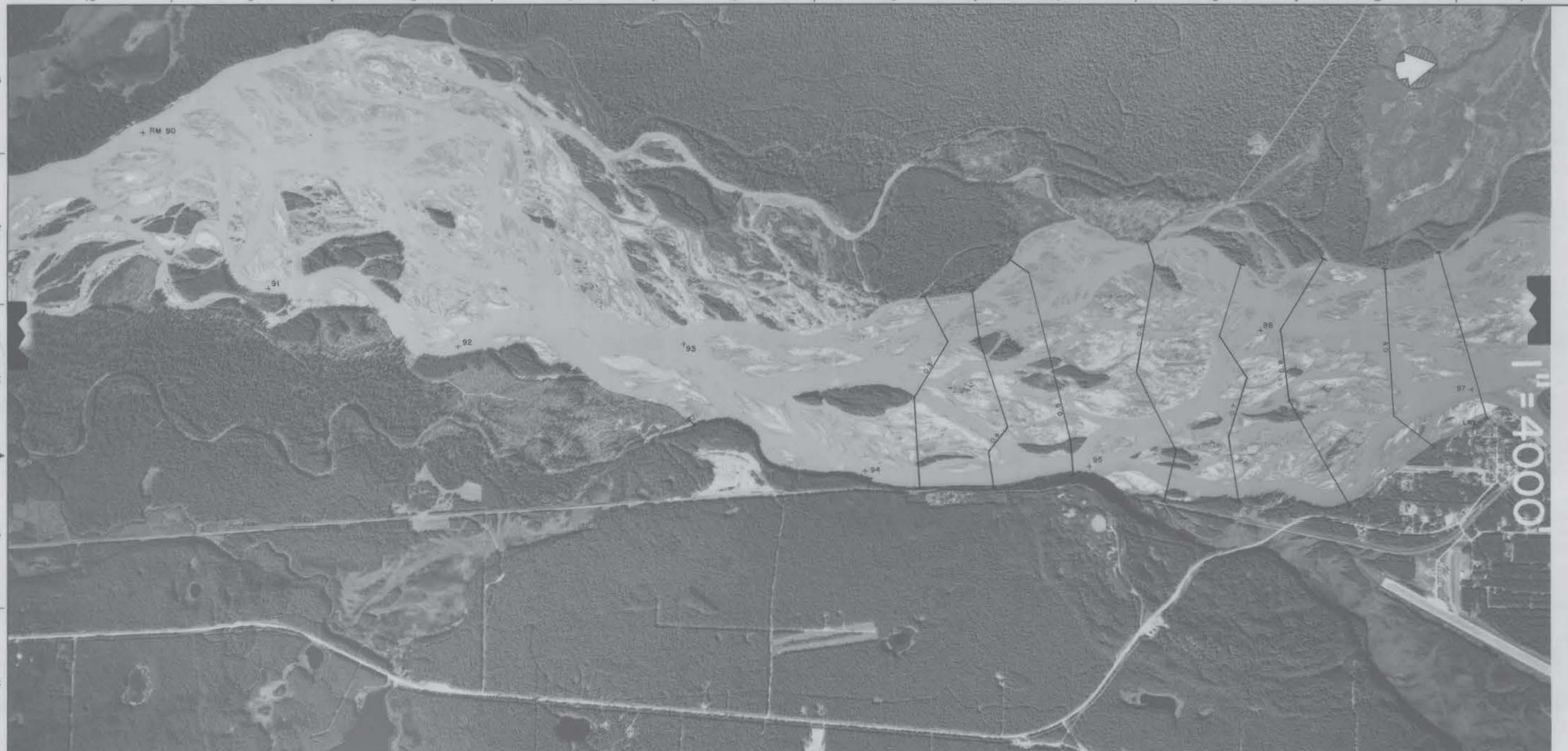
APPLIED MECHANICS ARCHITECTURAL CIVL CONSTRUCTION ELECTRICAL GEOTECHNICAL HYDRAULIC MECHANICAL DESIGNED DRAWN CHECKED



⊕ T = Thermograv. fraction

- 17-19 18 of 37 -





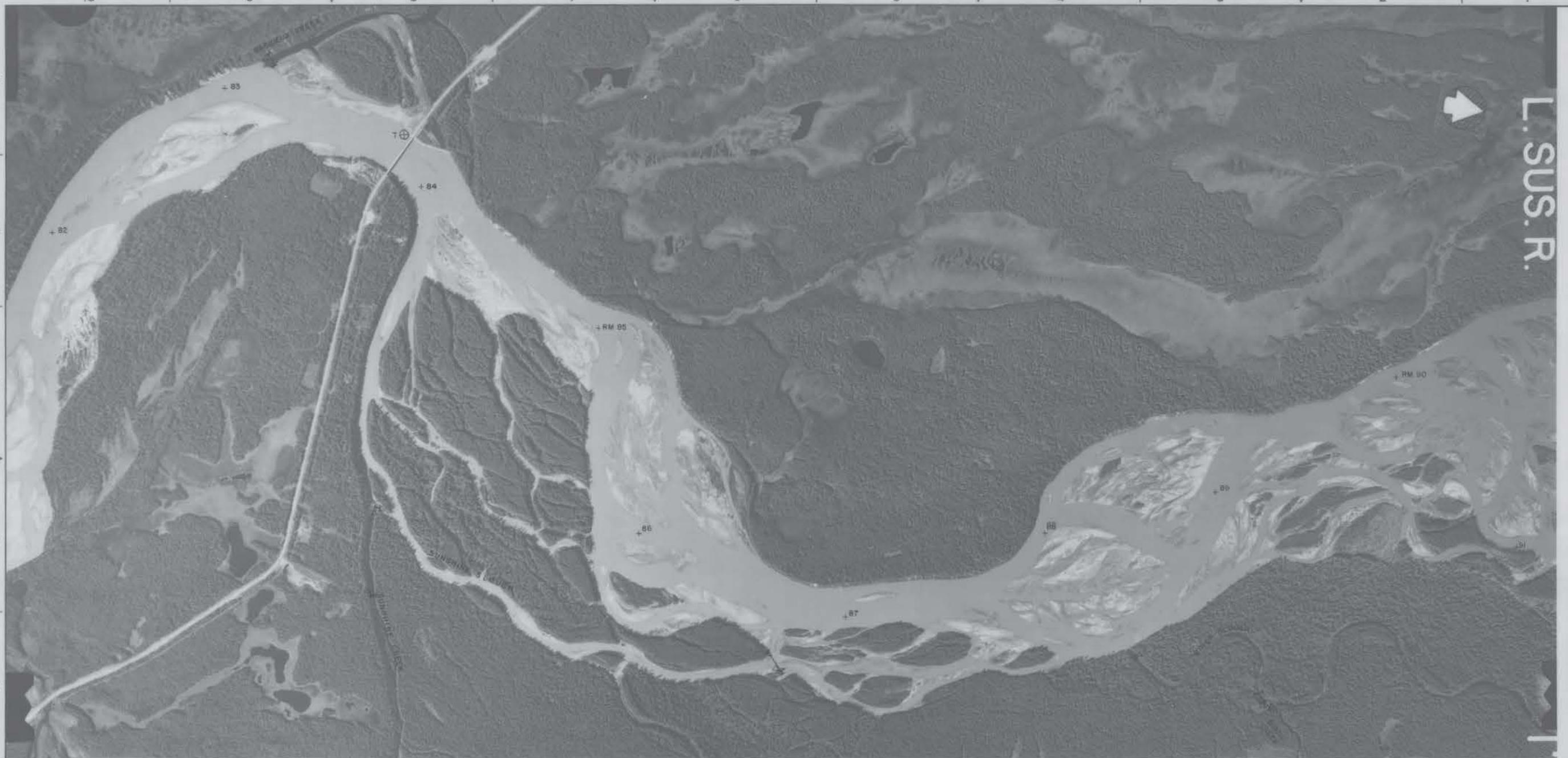
Δ - Staff gear.

-17-20 19 of 37

AKES  
ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER  
HYDROGRAPHIC MAPS

DATE	JAN.	1981	SCALE	1" = N.00'		
REVISIONS	CH.	APP.	DEPARTMENT	DRAWING NO.		
DATE	NO.	REVISIONS	CH.	APP.	PROJECT	SHRFT 19 OF 37
P&M CONSULTANTS, INC.						REV.



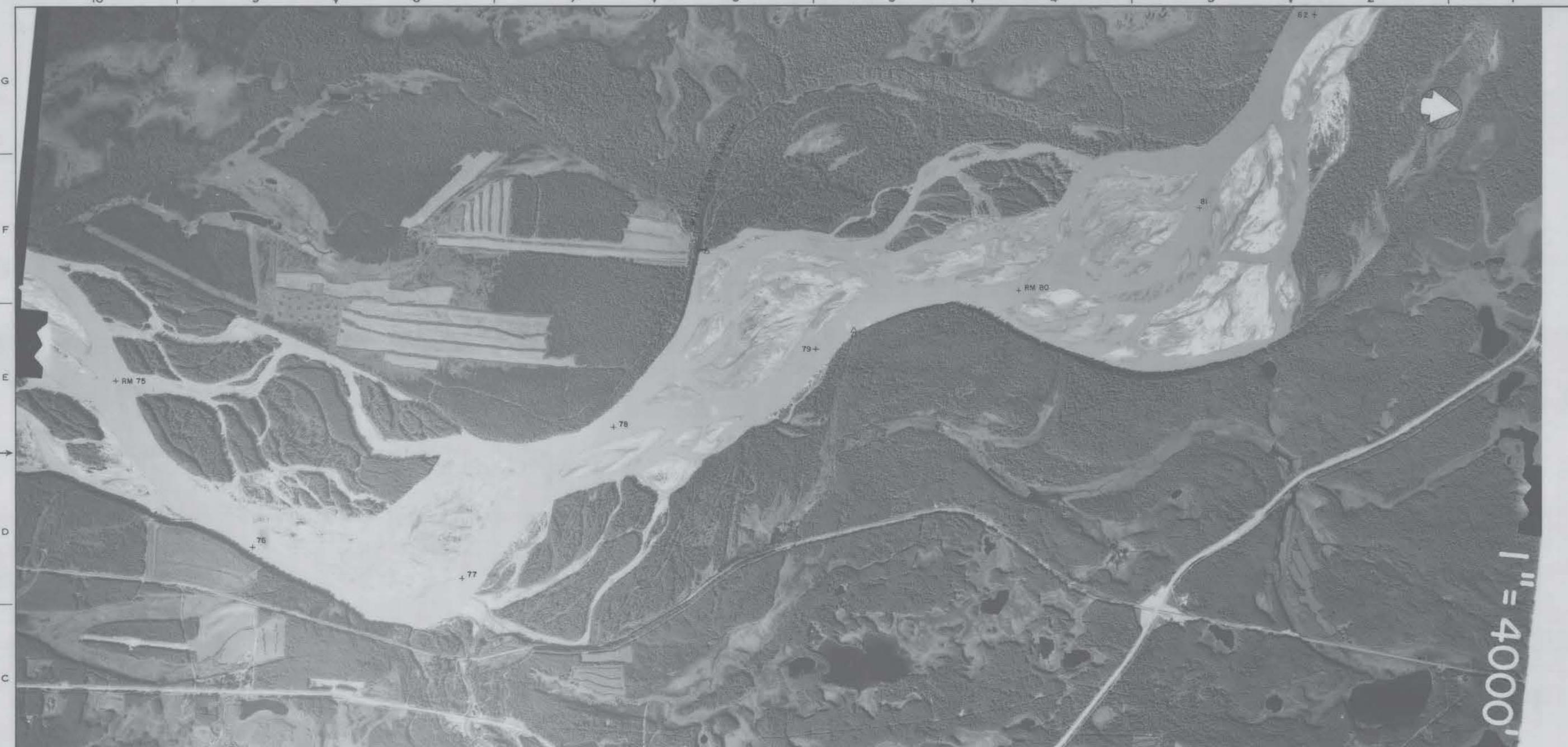
⊕ - Thermograph location  
△ - Staff gauge

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ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER  
HYDROGRAPHIC MAPS

DATE	NO.	REVISIONS			CH.	APP.	APT.
		APPLIED	STRUCTURAL	ELECTRICAL			
R&M CONSULTANTS, INC.					PROJECT 052210		
					SHEET 20 of 37		



△= Staff gauge

— 17-22 21 of 37 —

DRAWING No. SHEET OF REV. OF

<b>AGCIS</b>	ALASKA POWER AUTHORITY	
SUSITNA HYDROELECTRIC PROJECT		
<b>SUSITNA RIVER HYDROGRAPHIC MAPS</b>		
<b>R&amp;M</b> <small>R&amp;M CONSULTANTS INC.</small>		DATE JAN. 1981
		SCALE 1"=1000'
		DEPARTMENT
		DRAWING NO.
		REV.
		PROJECT 052216
		SHEET 21 of 37

APPLIED MECHANICS	ARCHITECTURAL CIVL.	CONSTRUCTION	ELECTRICAL	Mechanical	STRUCTURAL	MECHANICAL	DRIVEN	TRANS	DRILLED



A - Staff page

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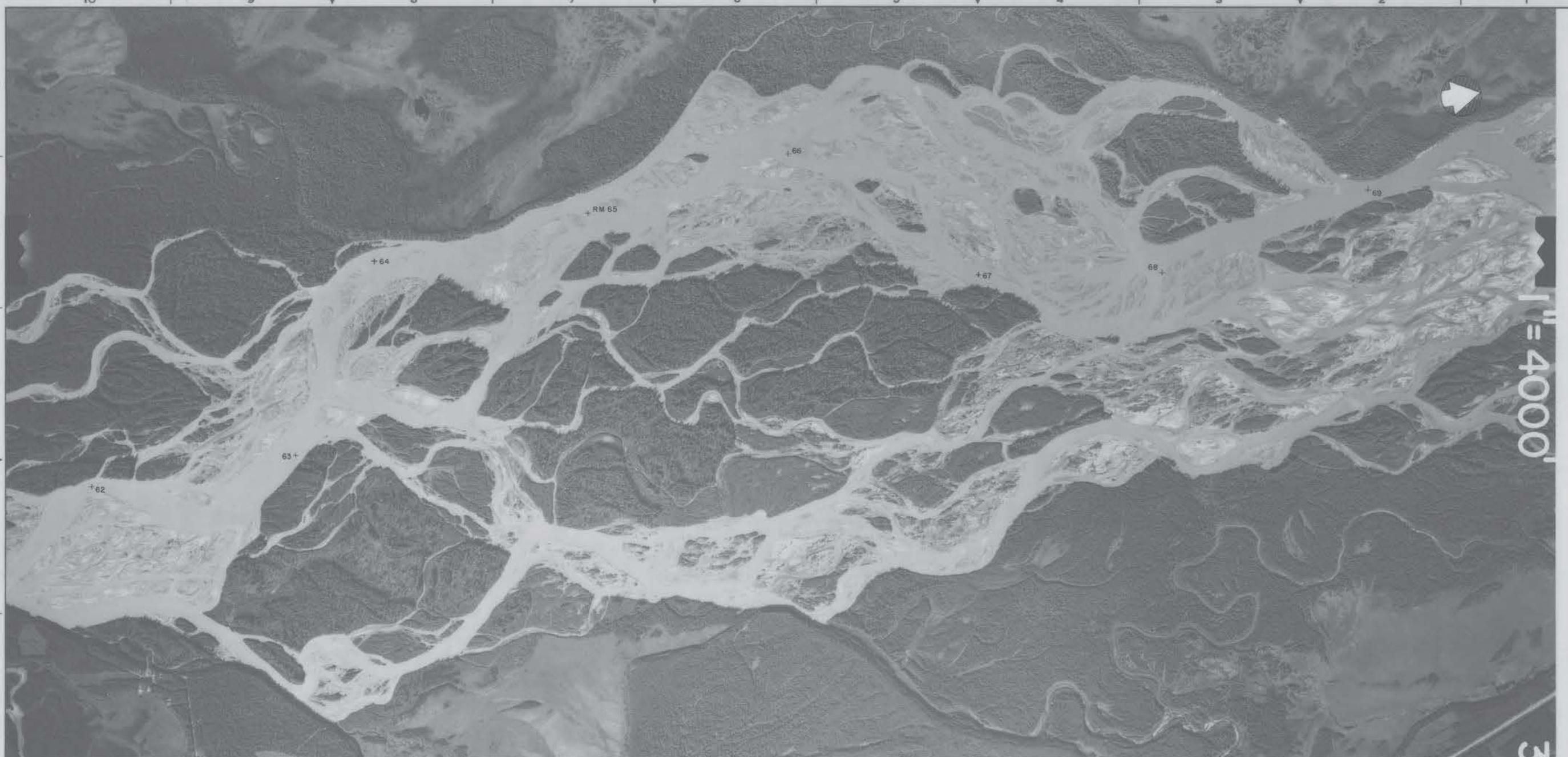


ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER  
HYDROGRAPHIC MAPS

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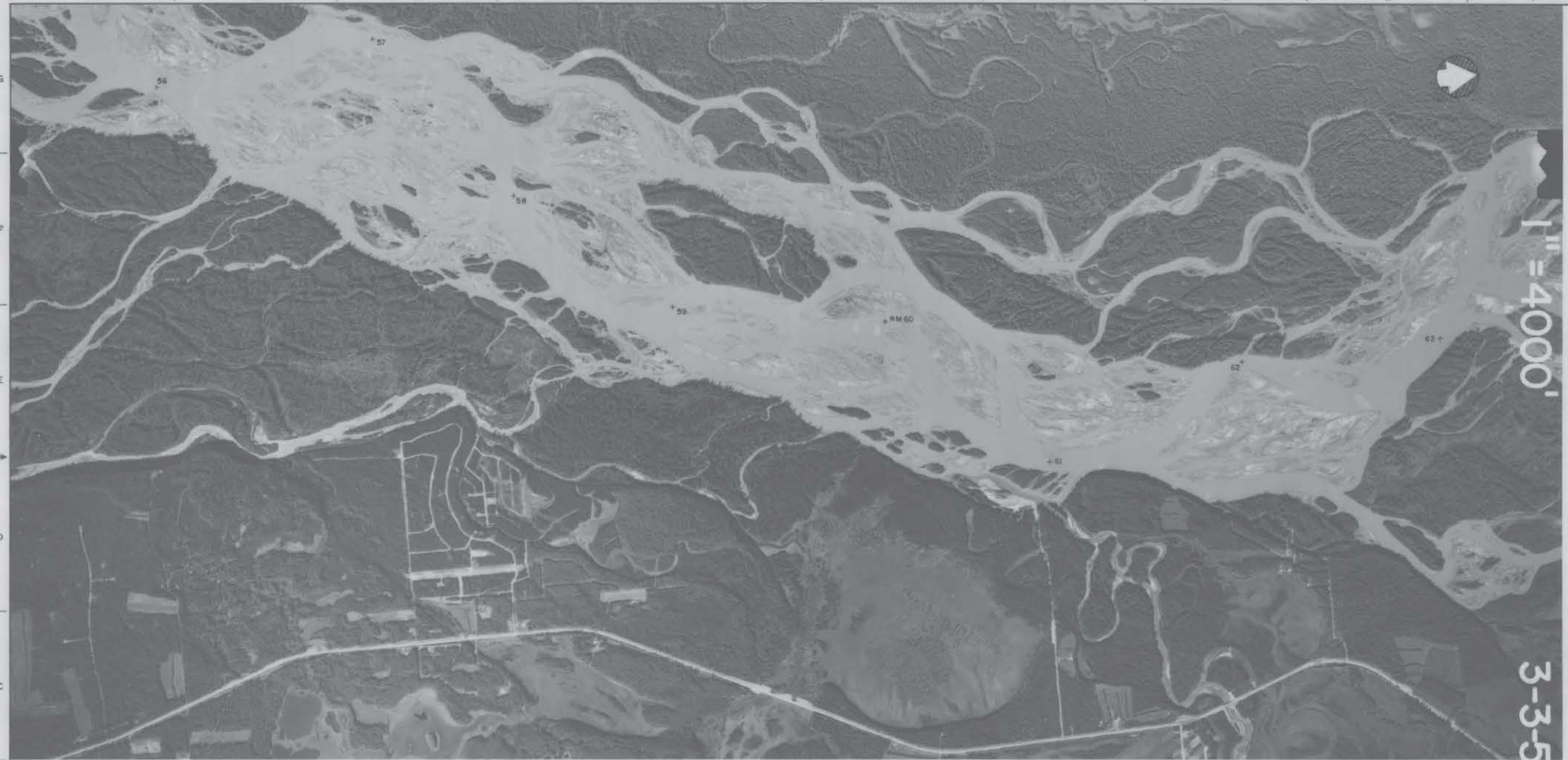
Prepared by NORTH PACIFIC AERIAL SURVEYS, INC.  
ANCHORAGE ALASKA



- 17-24 23 of 37 -

<b>ACRES</b>	ALASKA POWER AUTHORITY	
SUSITNA HYDROELECTRIC PROJECT		
<b>SUSITNA RIVER</b>		
<b>HYDROGRAPHIC MAPS</b>		
R&M R&M CONSULTANTS, Inc.	DATE JAN. 1981	SCALE 1" = 1000'
	DEPARTMENT	DRAWING NO.
	PROJECT 052215	WEST 23 of 37

APPLIED MECHANICS	STRUCTURAL DVL.	CONSTRUCTION	ELECTRICAL	HYDRAULIC	MECHANICAL	DESIGNED	DRAWN	CHECKED



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<b>ARIES</b>	ALASKA POWER AUTHORITY	
SUSITNA HYDROELECTRIC PROJECT		
<b>SUSITNA RIVER</b>		
<b>HYDROGRAPHIC MAPS</b>		
DRAWING NO. 052216		
SCALE 1" = 1000'		
DATE JAN 1981		
REVISIONS		
CH APP APP		
RSM CONSULTANTS		
PROJECT 052216		
SHEET 24 OF 37		

APPLIED	STRUCTURAL	CONSTRUCTION	ELECTRICAL	GEOTECHNICAL	MATERIALS	MECHANICAL	STRUCTURAL	MECHANICAL	DESIGN	DRAG	SHADES

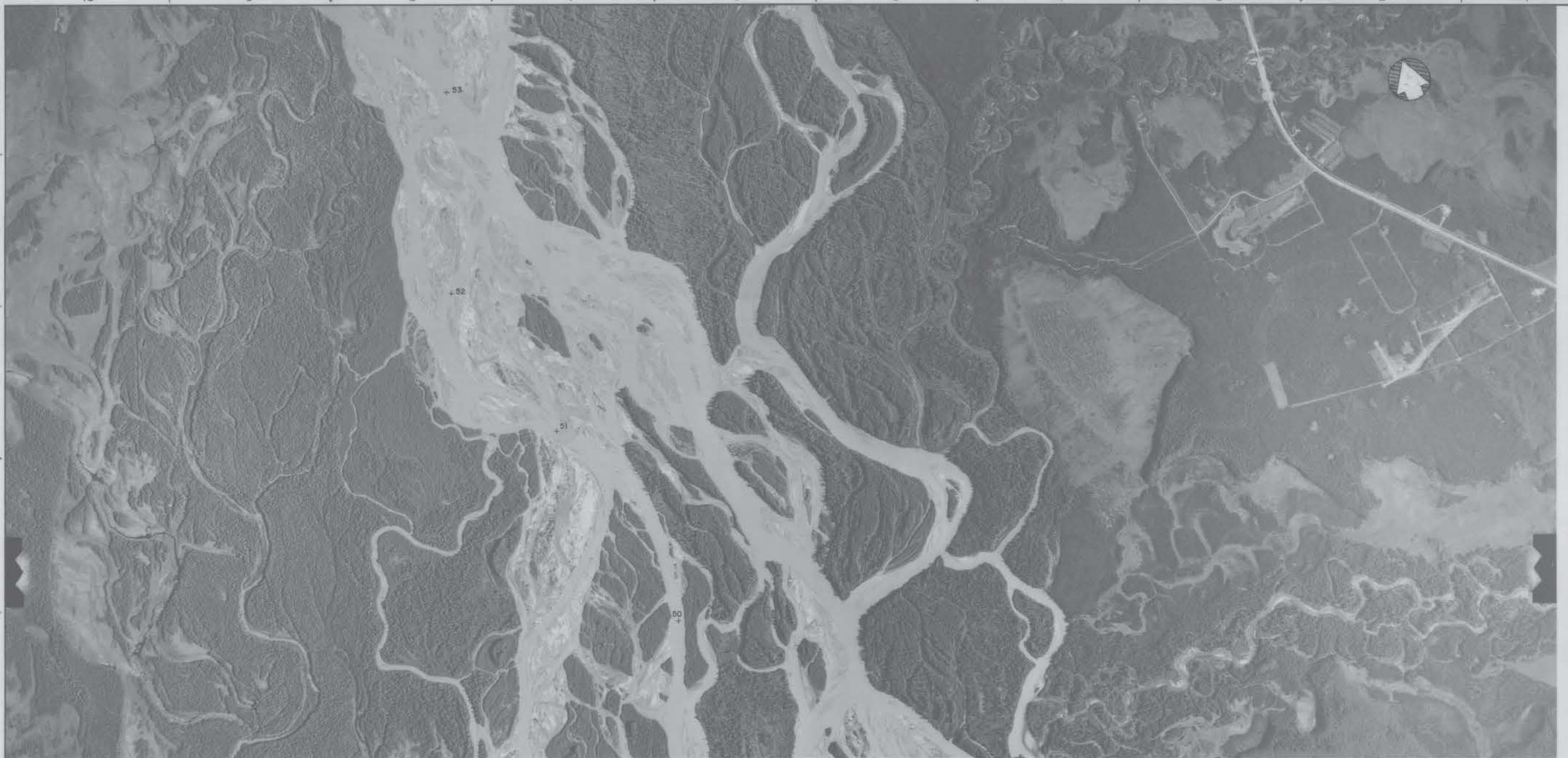


- 17-26a 25 of 37 -



**ALASKA POWER AUTHORITY**  
**SUSITNA HYDROELECTRIC PROJECT**

SUSITNA RIVER  
HYDROGRAPHIC MAPS



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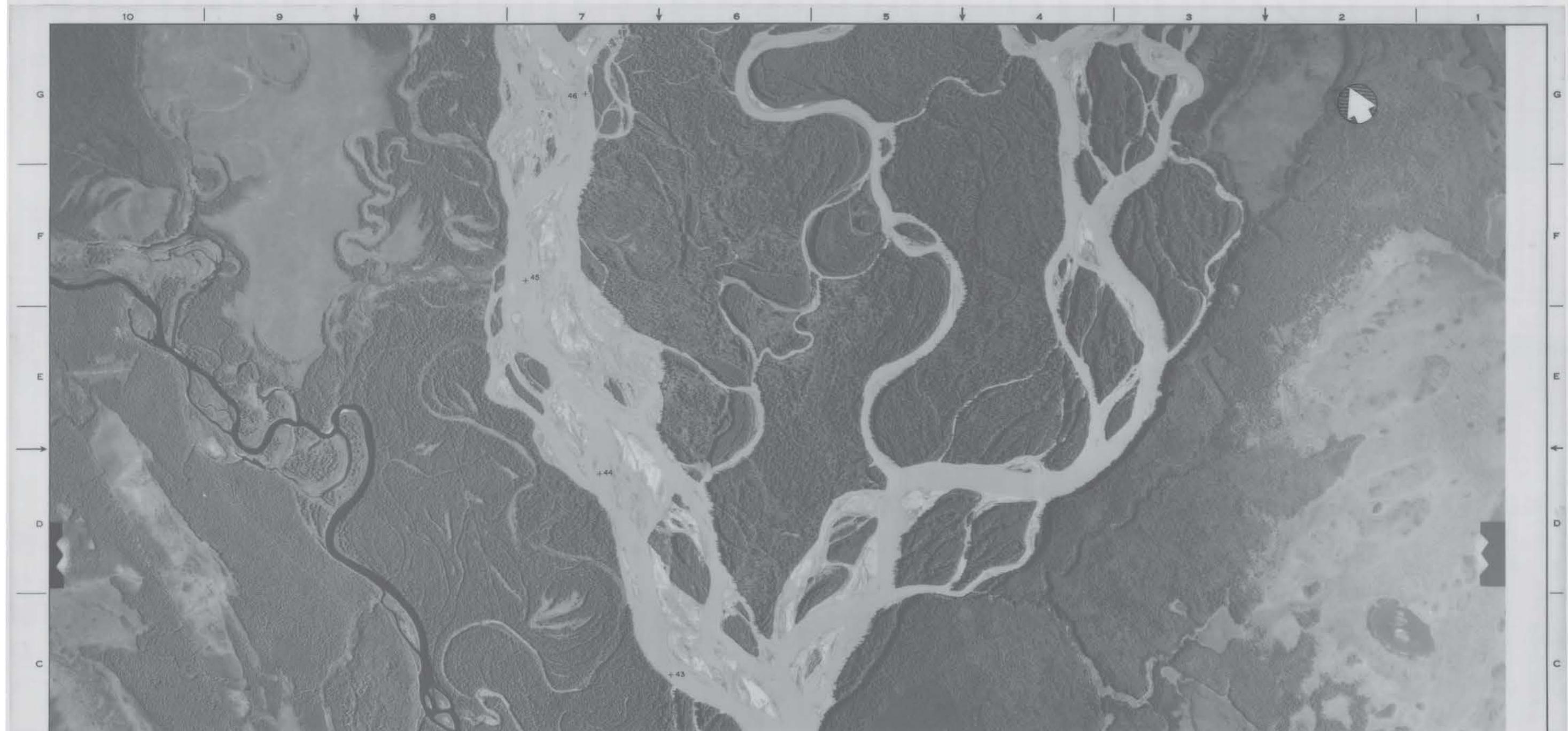
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SUSITNA RIVER HYDROGRAPHIC MAPS																							
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2"></td></tr> </table>																				PROJECT 052216 SHEET 26 OF 37			
APPLIED MECHANICS      ARCHITECTURAL CIVIL      CONSTRUCTION      ELECTRICAL      GEOTECHNICAL      HYDRAULIC      MECHANICAL      DESIGNER      DRILL      CHECKED																							



- 17-28 27 of 37 -

	ALASKA POWER AUTHORITY											
SUSITNA HYDROELECTRIC PROJECT												
SUSITNA RIVER HYDROGRAPHIC MAPS												
<table border="1"> <tr> <td>DATE: J.A.N. 1981</td> <td>SCALE: 1"=1000'</td> </tr> <tr> <td>R&amp;M CONSULTANTS, INC.</td> <td>DEPARTMENT:</td> </tr> <tr> <td>PROJECT: 052276</td> <td>DRAWING NO.:</td> </tr> <tr> <td></td> <td>REV.:</td> </tr> <tr> <td></td> <td>SHEET 27 OF 37</td> </tr> </table>			DATE: J.A.N. 1981	SCALE: 1"=1000'	R&M CONSULTANTS, INC.	DEPARTMENT:	PROJECT: 052276	DRAWING NO.:		REV.:		SHEET 27 OF 37
DATE: J.A.N. 1981	SCALE: 1"=1000'											
R&M CONSULTANTS, INC.	DEPARTMENT:											
PROJECT: 052276	DRAWING NO.:											
	REV.:											
	SHEET 27 OF 37											

APPLIED MECHANICS	HAZARDOUS WASTE	CONSTRUCTION, DRAIL	CONSTRUCTION, ELECTRICAL	HAZARDOUS, HYDRAULIC	HAZARDOUS, MECHANICAL	HAZARDOUS, PLANT	HAZARDOUS, REEDER



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**ALASKA POWER AUTHORITY**  
**SUSITNA HYDROELECTRIC PROJECT**

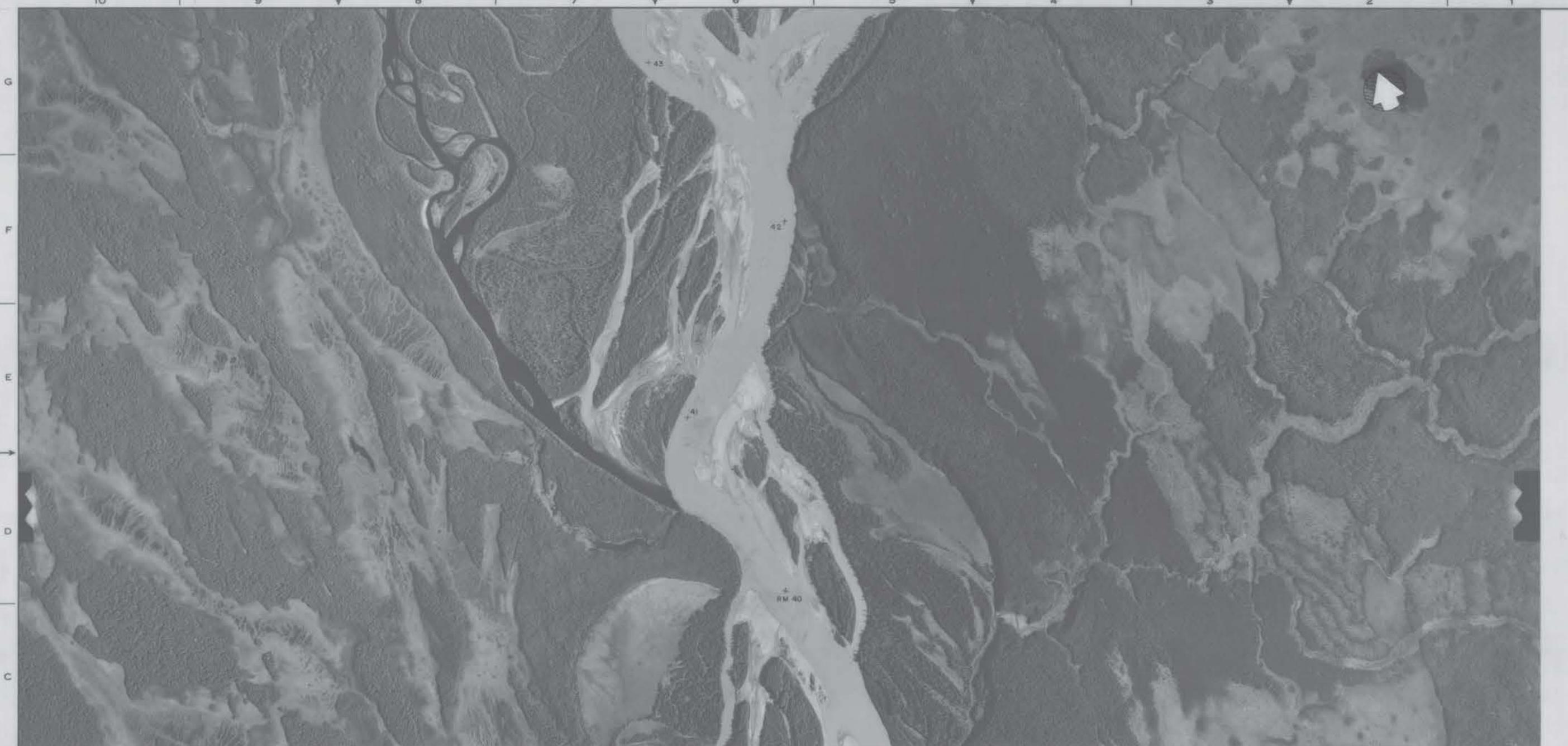
**SUSITNA RIVER**

**HYDROGRAPHIC MAPS**

DATE	REVISIONS	CH.	APP.	REV.
NO. NO.				

RSM  
RSM CONSULTANTS INC.

DATE: JAN 1981 SCALE: 1"=1000'  
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DRAWING NO.		SHEET NO.		ALASKA POWER AUTHORITY																	
				SUSITNA HYDROELECTRIC PROJECT																	
SUSITNA RIVER																					
HYDROGRAPHIC MAPS																					
RSM		DATE JAN 1981		SCALE 1" = 1000'																	
R & M CONSULTANTS, INC.		DEPARTMENT		DRAWING NO.																	
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PROJECT 052216		REVISIONS		SHEET 29 OF 37																	
DATE NO.		CH. APP. APP.																			
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APPLIED	Mechanical																				
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STRUCTURAL	STRUCTURAL																				
MECHANICAL	MECHANICAL																				



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**ALASKA POWER AUTHORITY**  
**SUSITNA HYDROELECTRIC PROJECT**

**SUSITNA RIVER**

**HYDROGRAPHIC MAPS**

R&M R&M CONSULTANTS INC.	DATE JAN. 1981	SCALE 1"=1000'
	DEPARTMENT	DRAWING NO.
	REVISIONS	CH. APP. APP.
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PROJECT: 052216 SHEET 30 of 37

APPLIED GEODESY	STRUCTURAL ENG.	INSTRUMENTATION	ELECTRICAL	MOTORCRAFT	HYDRAULIC	MACHINERY	SHIPPING	CRATE	PACKING

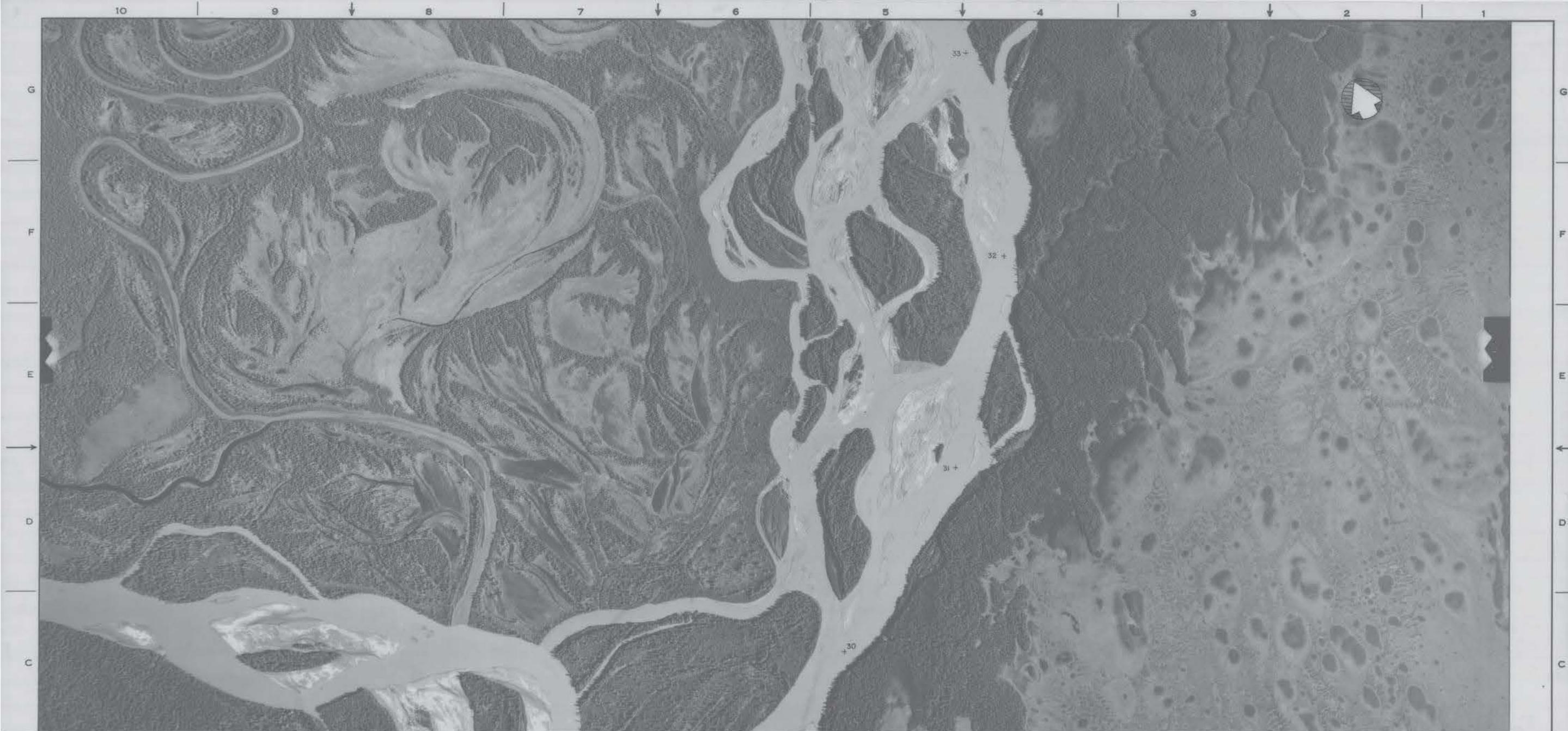


- 17-32 31 of 37 -

DRAWING NO. SHEET OF REV.

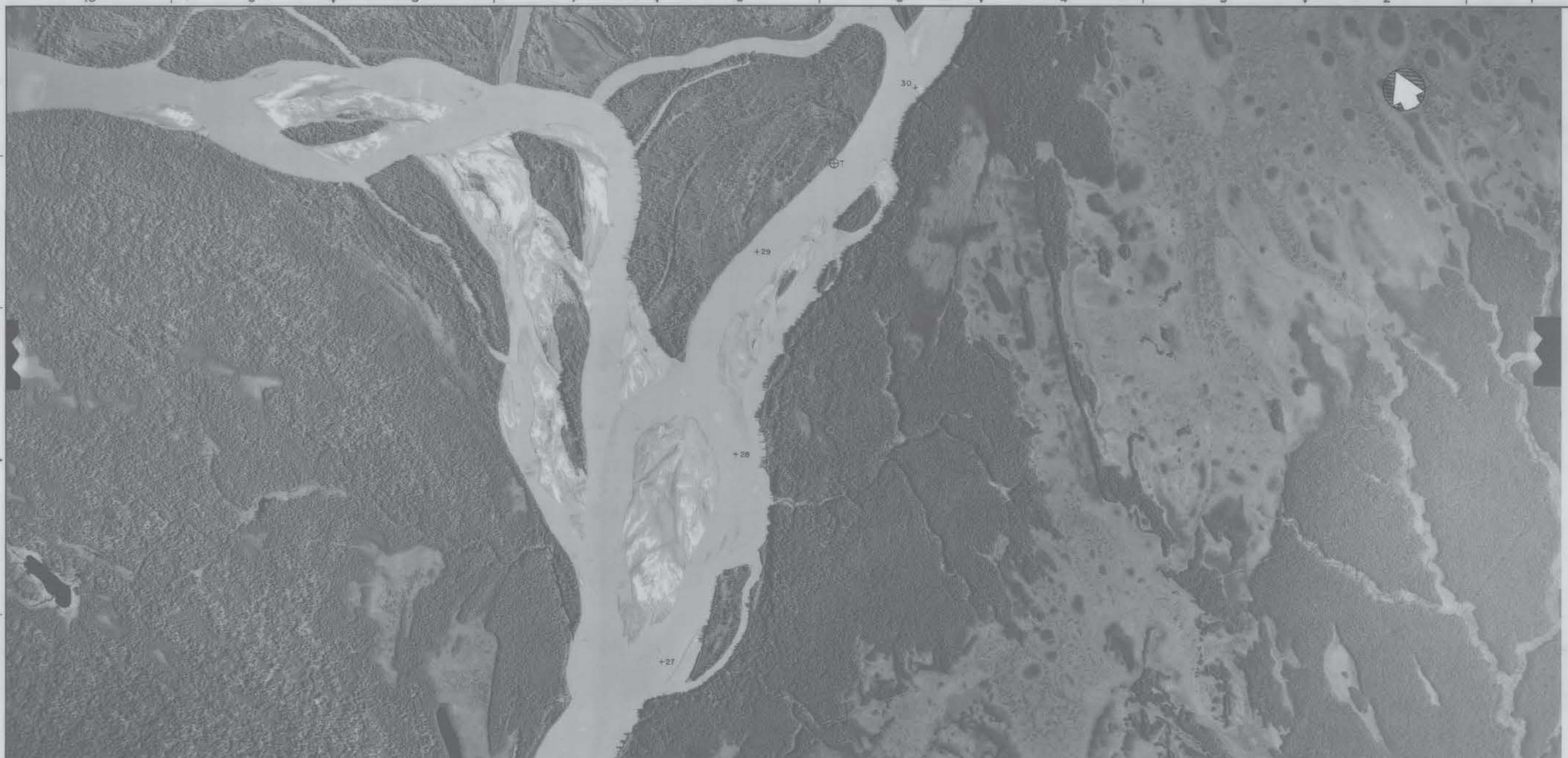
<b>ALASKA POWER AUTHORITY</b>	<b>SUSITNA HYDROELECTRIC PROJECT</b>	
<b>SUSITNA RIVER</b>		
<b>HYDROGRAPHIC MAPS</b>		
R&M R&M CONSULTANTS INC.	DATE JAN. 1981	SCALE 1"=1000'
	DEPARTMENT	DRAWING NO.
	REVISIONS	REV.
	CH. APP. APP.	
	PROJECT 052216	SHEET 31 OF 37

BIRTHING 44-132-4073 10 9 ↑ 8 ↑ 7 ↑ 6 ↑ 5 ↑ 4 ↑ 3 ↑ 2 ↑ 1 ↑



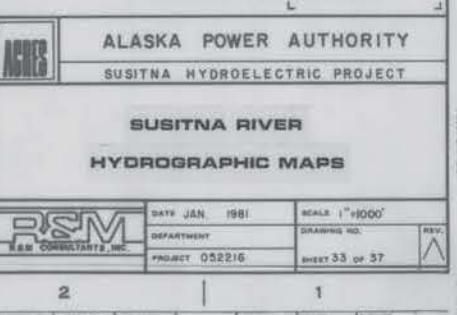
17-33 32 of 37

DRAWING NO.	REV. B	SHEET 6			
A				B	
Prepared by NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE					
<b>ALASKA POWER AUTHORITY</b> <b>SUSITNA HYDROELECTRIC PROJECT</b> <b>SUSITNA RIVER</b> <b>HYDROGRAPHIC MAPS</b>					
		DATE: JAN 1981 DRAWING NO.: RSM RSM CONSULTANTS, INC. PROJECT 052216 SHEET 32 of 37		SCALE: 1" = 1000' DEPARTMENT: REV. C	
10   9 ↑   8   7 ↑   6   5 ↑   4   3 ↑   2   1					
10   9 ↓   8   7 ↓   6   5 ↓   4   3 ↓   2   1					
G   F   E   D   C   B   A   G   F   E   D   C   B   A					
33 +   32 +   31 +   30 +   29 +   28 +   27 +   26 +   25 +   24 +   23 +   22 +   21 +   20 +   19 +   18 +   17 +   16 +   15 +   14 +   13 +   12 +   11 +   10 +   9 +   8 +   7 +   6 +   5 +   4 +   3 +   2 +   1 +					
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 T - Thermograph location

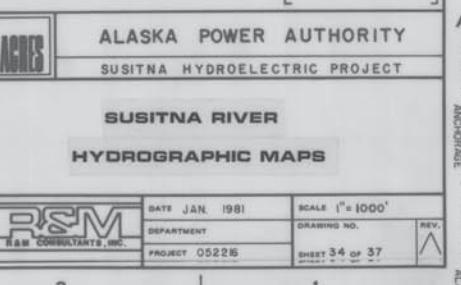
- 17-34 33 of 37 -





 T - Thermograph Location

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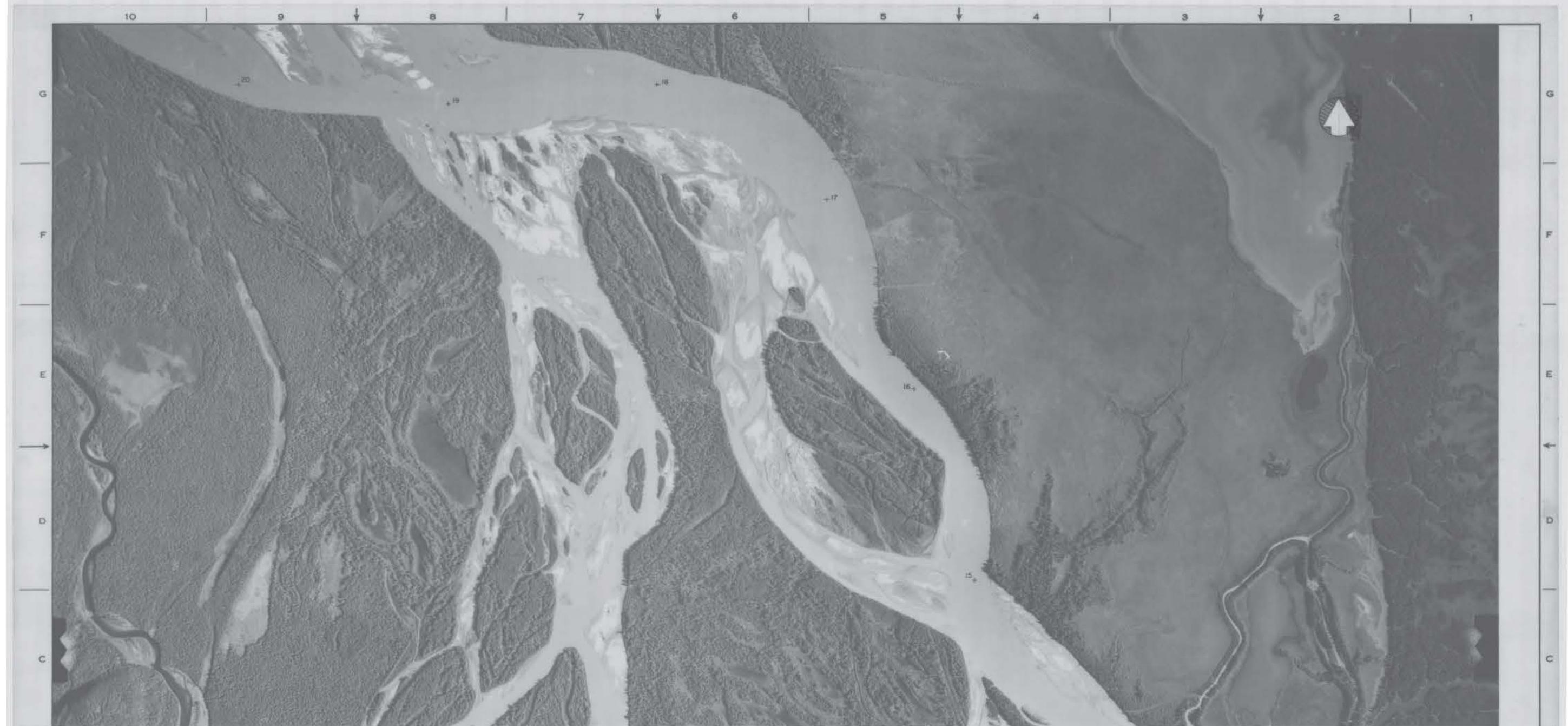


- 17-34



**ALASKA POWER AUTHORITY**  
**SUSITNA HYDROELECTRIC PROJECT**

SUSITNA RIVER  
HYDROGRAPHIC MAPS



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ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER

HYDROGRAPHIC MAPS

DATE JAN. 1981	SCALE 1"=1000'
DEPARTMENT	DRAWING NO.
RSM CONSULTANTS, INC.	REV.
PROJECT: 052216	HEET 36 OF 37

APPLIED GEODESY ARCHITECTURAL DEP. CONSTRUCTION ELECTRICAL INDUSTRIAL HYDRAULIC MECHANICAL



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**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

**SUSITNA RIVER**  
**HYDROGRAPHIC MAPS**

R&M CONSULTANTS, INC.	DATE: JAN. 1981	SCALE: 1"=1000'
	DEPARTMENT:	DRAWING NO.:
	PROJECT: 052216	REV.:
		Sheet 37 of 37
APPLIED MECHANICS	STRUCTURAL (IV)	CONSTRUCTION ELECTRICAL
MECHANICAL	HYDRAULIC	MATERIALS
DESIGNERS	SHADES	DISCUSSION

DRAWING NO. 10  
REV. A  
SHEET 37 OF 37  
APPLIED MECHANICS  
STRUCTURAL (IV)  
CONSTRUCTION ELECTRICAL  
MECHANICAL  
DESIGNERS  
SHADES  
DISCUSSION