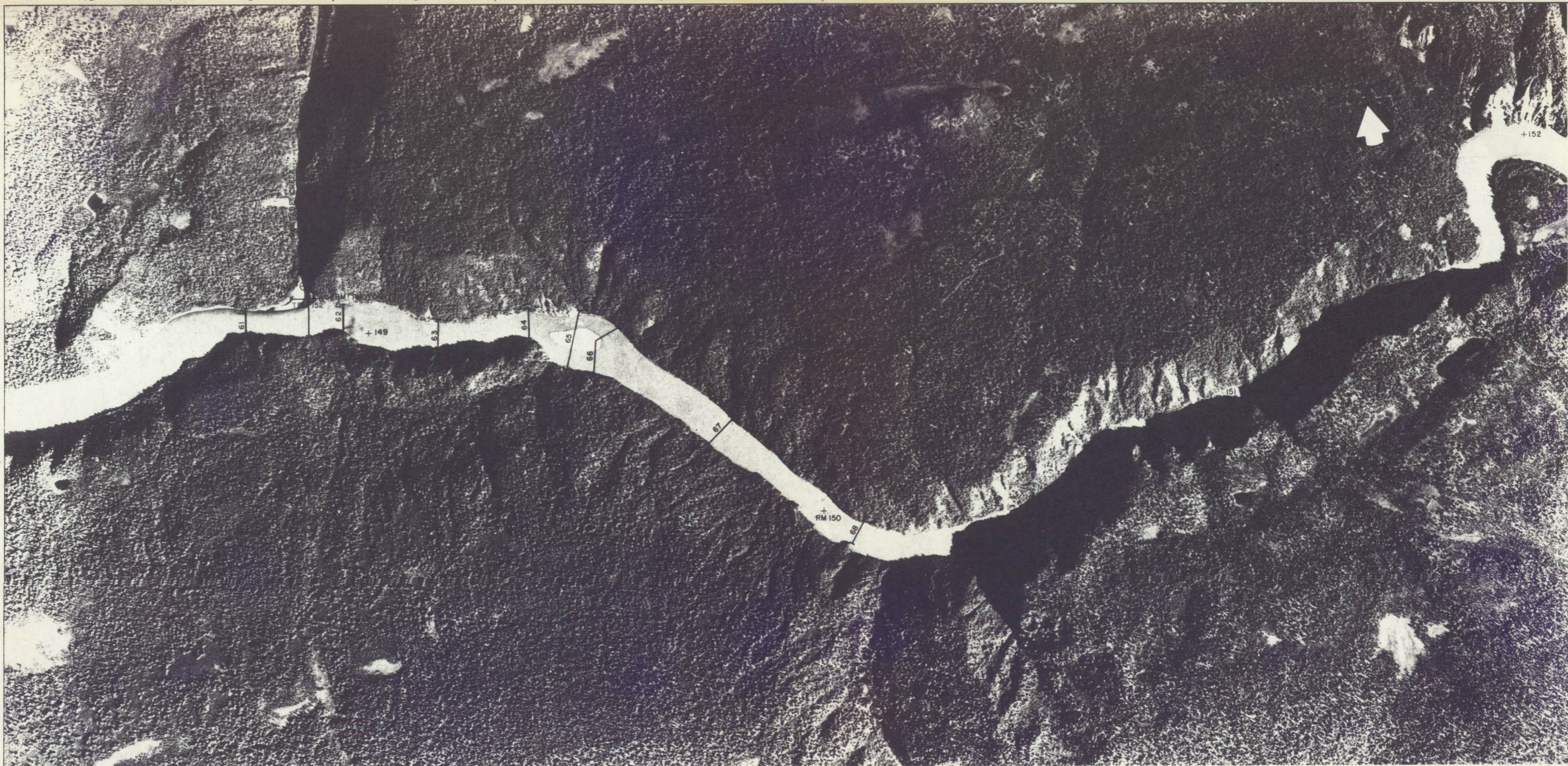


ESTES



Location of temporary benchmark - aluminum cap, nail or rebar.
 62 Numbers refer to cross-section numbers, i.e. 62 + LRN-62.

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

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
61	TBM 153	-	845.92	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.

Descriptive

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 1:500 } varies
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 incomplete
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ESTES

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

(XX) Total channel blockage

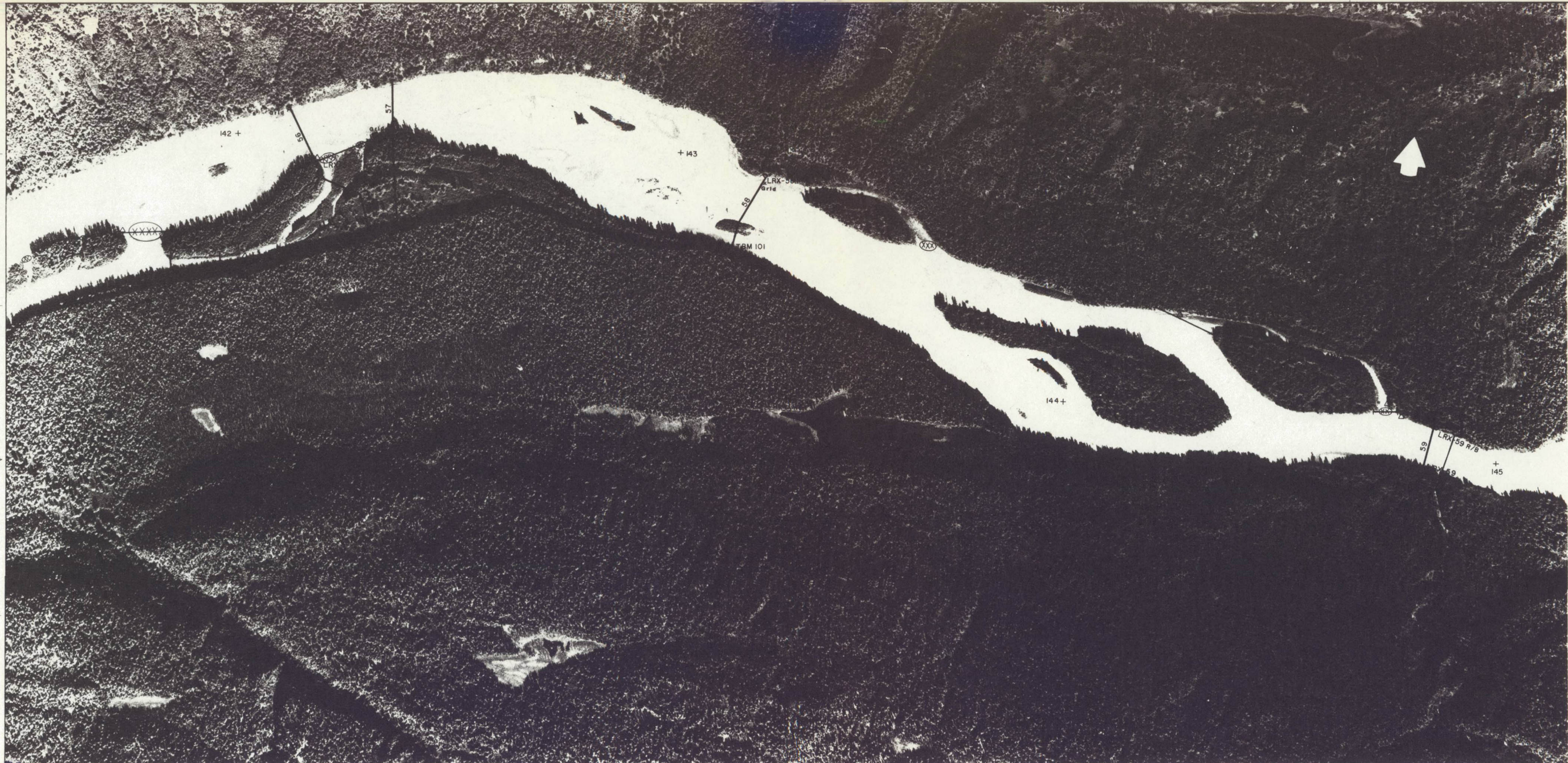
CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
60	LRX-60	11+00	831.87	Aluminum cap on top of left bank.

	ALASKA POWER AUTHORITY	
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APPLIED MECHANICS | ARCHITECTURAL CIVIL | CONSTRUCTION | ELECTRICAL | GEOTECHNICAL | HYDRAULIC | MECHANICAL | DESIGNED | DRAWN | CHECKED

Prepared by: NORTH INDIAN AERIAL SURVEYS, INC. ANCHORAGE, ALASKA



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

X - Grid sample location

△ - Staff gage site

▲ - Stage recorder

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
56	LRX-56	15+73	759.30	Aluminum cap on top of bank at upstream end of island.
57	LRX-57	11+00	761.68	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.
	LRX-58 R/B	19+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	796.80	Aluminum cap on top of left bank.
	LRX-59 R/B	15+99	797.59	Nail set in base of 16" cottonwood tree with ice scar offset 10 feet upstream from cross-section line along top of right bank.

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT
SUSITNA RIVER
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DATE	NO.	REVISIONS	CH.	APP.	APP.

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

DRAWING NO. SHEET OF

Prepared by: NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE, ALASKA

DATE	NO.	REVISIONS
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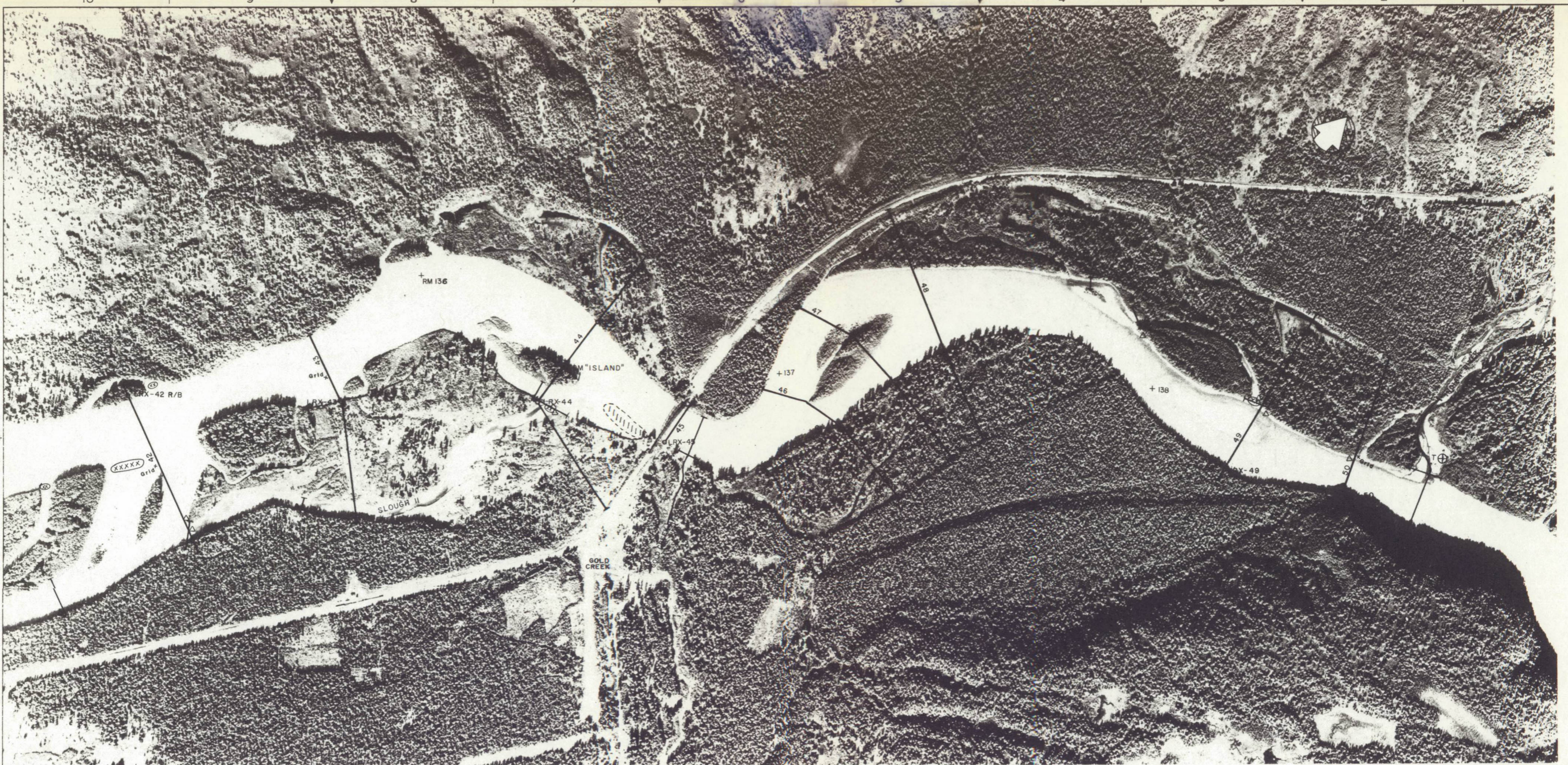
CH	APP.	DATE

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT
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DATE JAN 1981
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CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
51	LRX-51	10+00	717.86	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	735.67	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.

○ Location of temporary benchmark - aluminum cap, nail or rebar.
 62- Numbers refer to cross-section numbers, i.e. 62 = LRX-62.
 ⊗ Total channel blockage
 ⊗ Partial channel blockage
 ⊕ T - Thermograph location
 △ - Staff gage site
 X Grid sample location





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

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

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

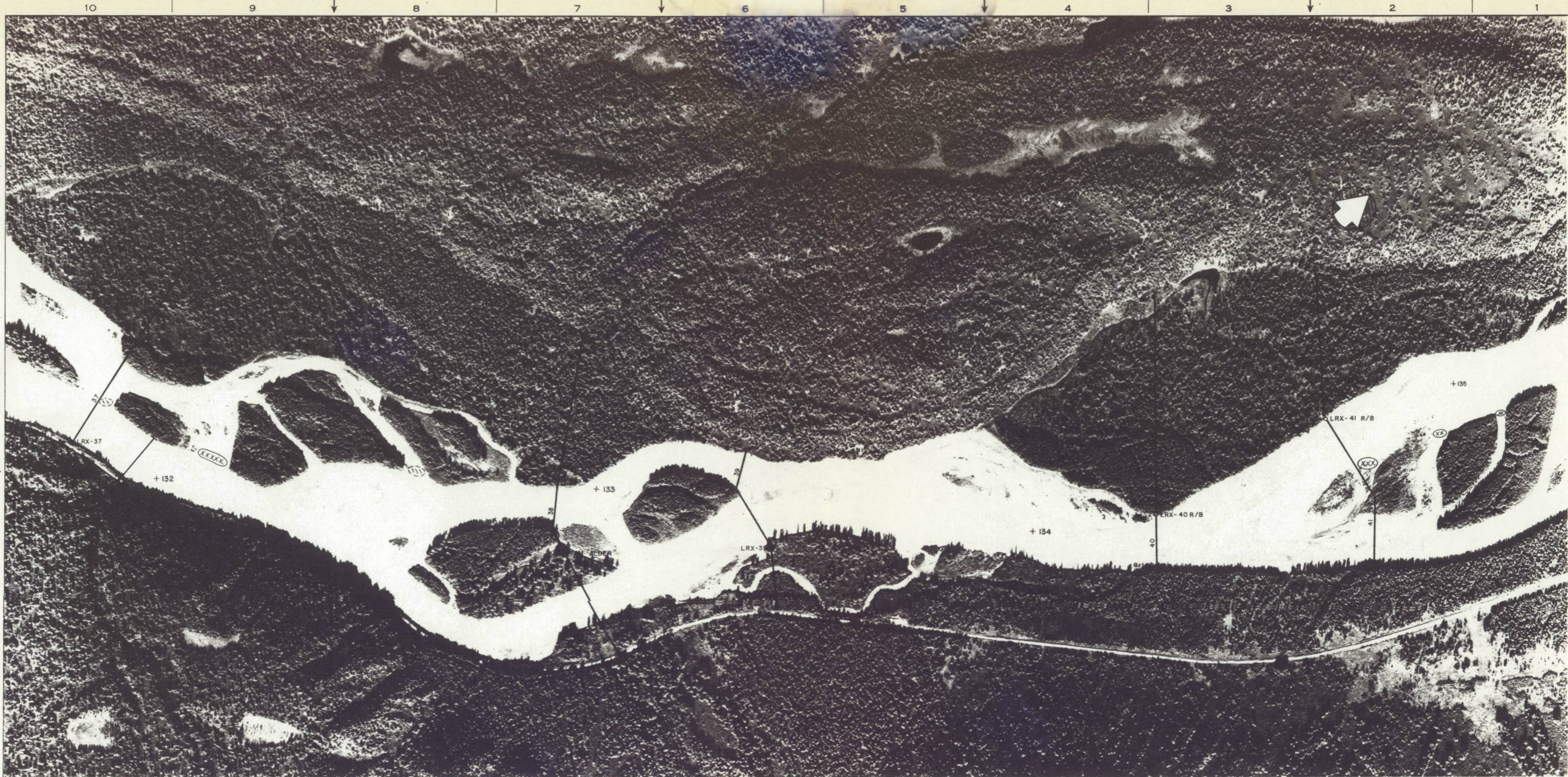
CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
42	LRX-42	12+00	703.81	Aluminum cap on top of left bank.
	LRX-42 R/B	30+23	676.71	Nail set in cottonwood tree with ice scar offset 12 feet downstream along top of bank.
43	LRX-43	24+20	683.11	Aluminum cap on left bank of main channel.
44	LRX-44	23+37	688.67	Aluminum cap at angle point on far left bank.
	"Island"	27+96	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 14" 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+66	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	709.34	Aluminum cap on steep bedrock slope, left bank.

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 SUSITNA HYDROELECTRIC PROJECT

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DATE JAN. 1981
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01 Location of temporary benchmark - aluminum cap, nail or rebar.
 62 Numbers refer to cross-section numbers, i.e. 62 = LRX-62.

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

Δ - Staff gage site

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
37	LRX-37	10+09	650.08	Aluminum cap top of left bank.
38	LRX-38	11+94	647.98	Aluminum cap top of left bank, east channel.
	"Alder"	20+49	650.69	Nail set in alder on line on mid-channel island.
39	LRX-39	17+58	652.06	Aluminum cap top of left bank.
40	LRX-40	10+55	676.53	Aluminum cap top of left bank.
	LRX-40 R/B	17+21	663.30	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	664.55	Nail set in old stump offset 2 feet upstream of cross-section line along toe of bank.

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SUSITNA RIVER
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DATE JAN, 1981 SCALE 1" = 500'
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APPLIED MECHANICAL ARCHITECTURAL CIVIL CONSTRUCTION ELECTRICAL GEOTECHNICAL HYDRAULIC MECHANICAL DESIGNED DRAWN CHECKED

DRAWING No. SHEET OF REV.

Prepared by NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE, ALASKA



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

(XX) Total channel blockage
 (///) Partial channel blockage
 X Grid sample location

△ Staff gage site
 ⊕ Thermograph location
 ▲ Stage recorder

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"	-	619.05	Nail set in 12" cottonwood approximately 85 feet southeast from top of bank.
	LRX-33	28+77	615.53	Aluminum cap top of left bank, main channel.
34	LRX-34	18+80	625.38	Aluminum cap top of left bank, main (west) channel.
35	LRX-35	13+67	626.56	Aluminum cap top of left bank at Crest Stage Gage.
	TBM-1	-	630.49	Spike in 36" cottonwood tree up a small gully from Crest Stage Gage.
36	LRX-36	14+47	631.37	Aluminum cap top of left bank.

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ALASKA POWER AUTHORITY
 SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER
 HYDROGRAPHIC MAPS

RSM
 R & M CONSULTANTS, INC.

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SCALE 1" = 500'
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- O1: Location of temporary benchmark - aluminum cap, nail or rebar.
- O2: Numbers refer to cross-section numbers, i.e. 62 = LRX-62.
- XX: Total channel blockage
- 77: Partial channel blockage
- X: Grid sample location
- ▲: Stage recorder
- △: Staff gage site
- ⊕T: Thermograph location

CROSS SECTION	IBM NAME	STATION	ELEVATION	DESCRIPTION
29	LRX-29	34+49	578.43	Aluminum cap top of left bank.
30	LRX-30	11+64	596.07	Aluminum cap top of left bank.

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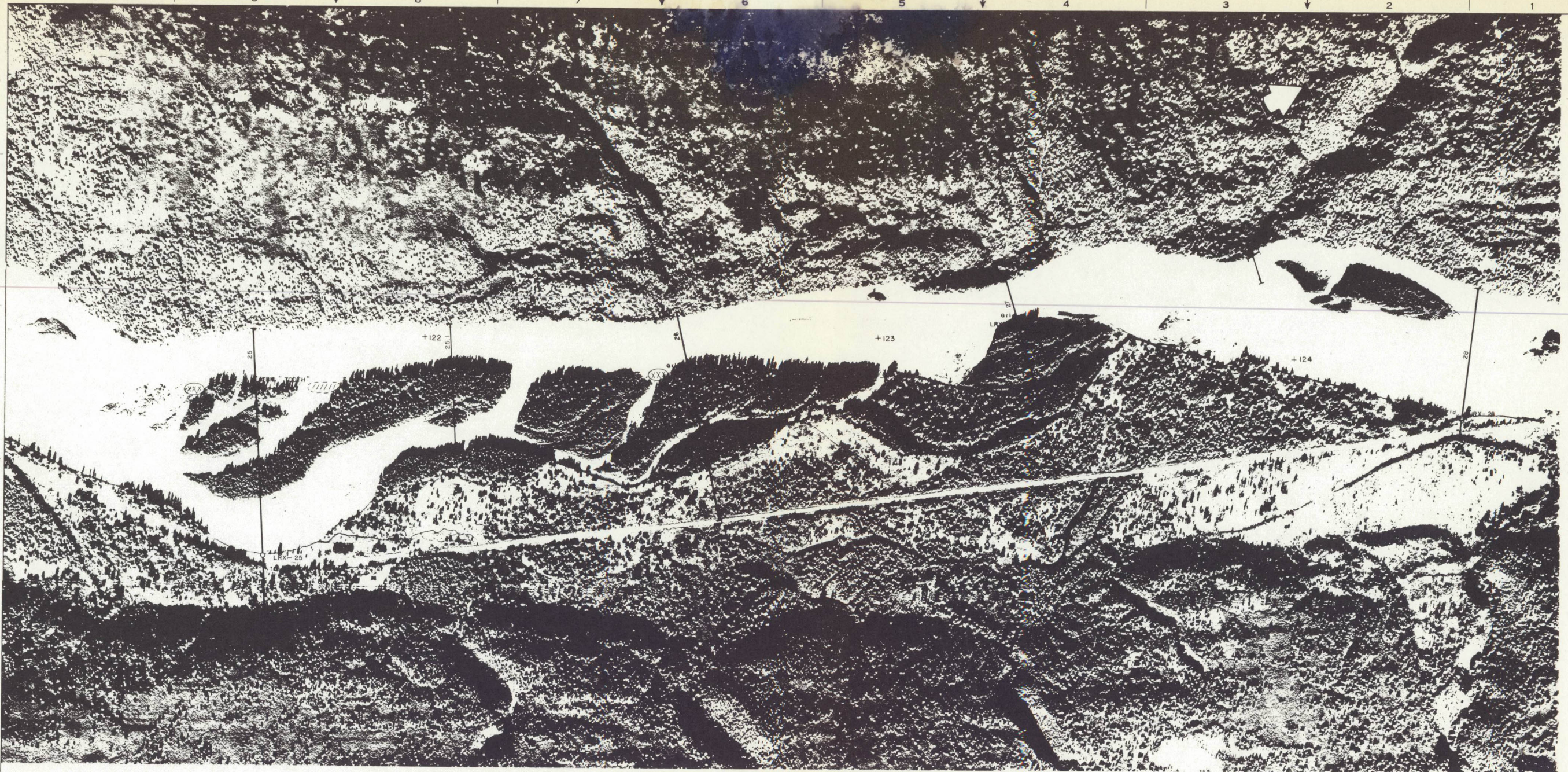
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ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER
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RSM R&M CONSULTANTS, INC.	DATE JAN. 1981 DEPARTMENT PROJECT 052216	SCALE 1" = 500' DRAWING NO. SHEET 9 OF 37
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O: Location of temporary benchmark - aluminum cap, nail or rebar.
 B2: Numbers refer to cross-section numbers, i.e. B2 = LRX-B2.

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

CROSS SECTION	TBM NAME	SECTION	ELEVATION	DESCRIPTION
25	LRX-25	1+52	536.55	Aluminum cap top of left bank.
	"Tooth"	25+80	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	547.80	Aluminum cap top of left bank.
27	LRX-27	29+18	552.71	Aluminum cap top of left bank.
28	LRX-28	11+53	561.80	Aluminum top of left bank near Crest Stage Gage.
	TBM-1		565.48	Spike in 48" cottonwood tree up on bank about 50 feet beyond Crest Stage Gages.

ALASKA POWER AUTHORITY
 SUSITNA HYDROELECTRIC PROJECT
SUSITNA RIVER
HYDROGRAPHIC MAPS

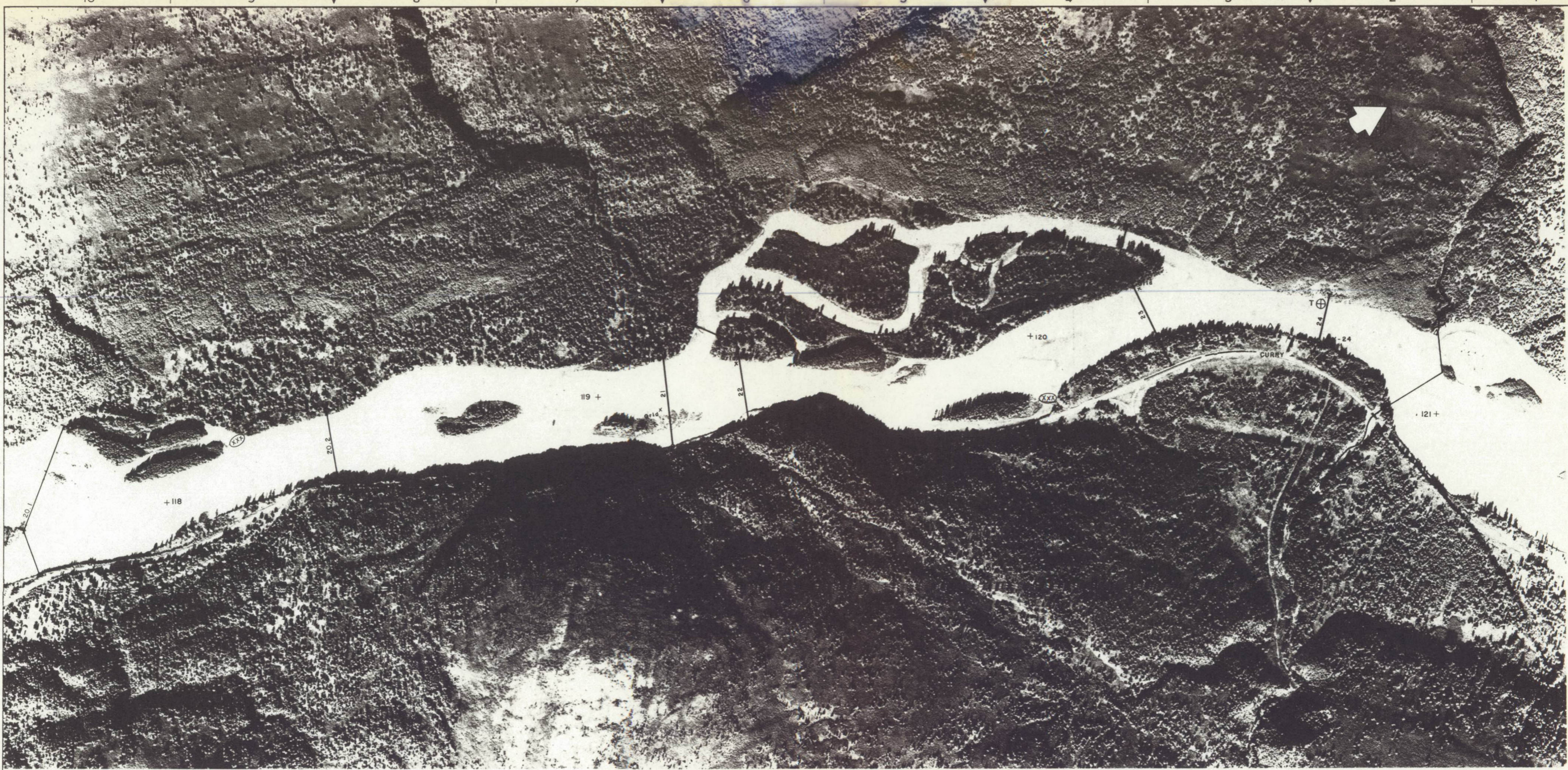
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APPLIED MECHANICS | ARCHITECTURAL | CIVIL | CONSTRUCTION | ELECTRICAL | GEOTECHNICAL | HYDRAULIC | MECHANICAL | DESIGNED | DRAWN | CHECKED

DRAWING NO. SHEET OF

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

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

Δ- Staff gage
 ⊕- Thermograph location

CROSS SECTION	T.M. NAME	STATION	ELEVATION	DESCRIPTION
21	LRX-21	1+28	523.74	Aluminum cap top of left bank.
	"Finn"	2+82	518.94	Nail set in cottonwood tree with ice scar, offset 50 feet downstream of cross-section line along top of bank.
22	"R&M 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 R&M 245.
23	LRX-23	13+33	530.53	Aluminum cap top of left bank.
	"Flu"	23+83	527.18	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.

ALASKA POWER AUTHORITY
 SUSITNA HYDROELECTRIC PROJECT
SUSITNA RIVER
 HYDROGRAPHIC MAPS

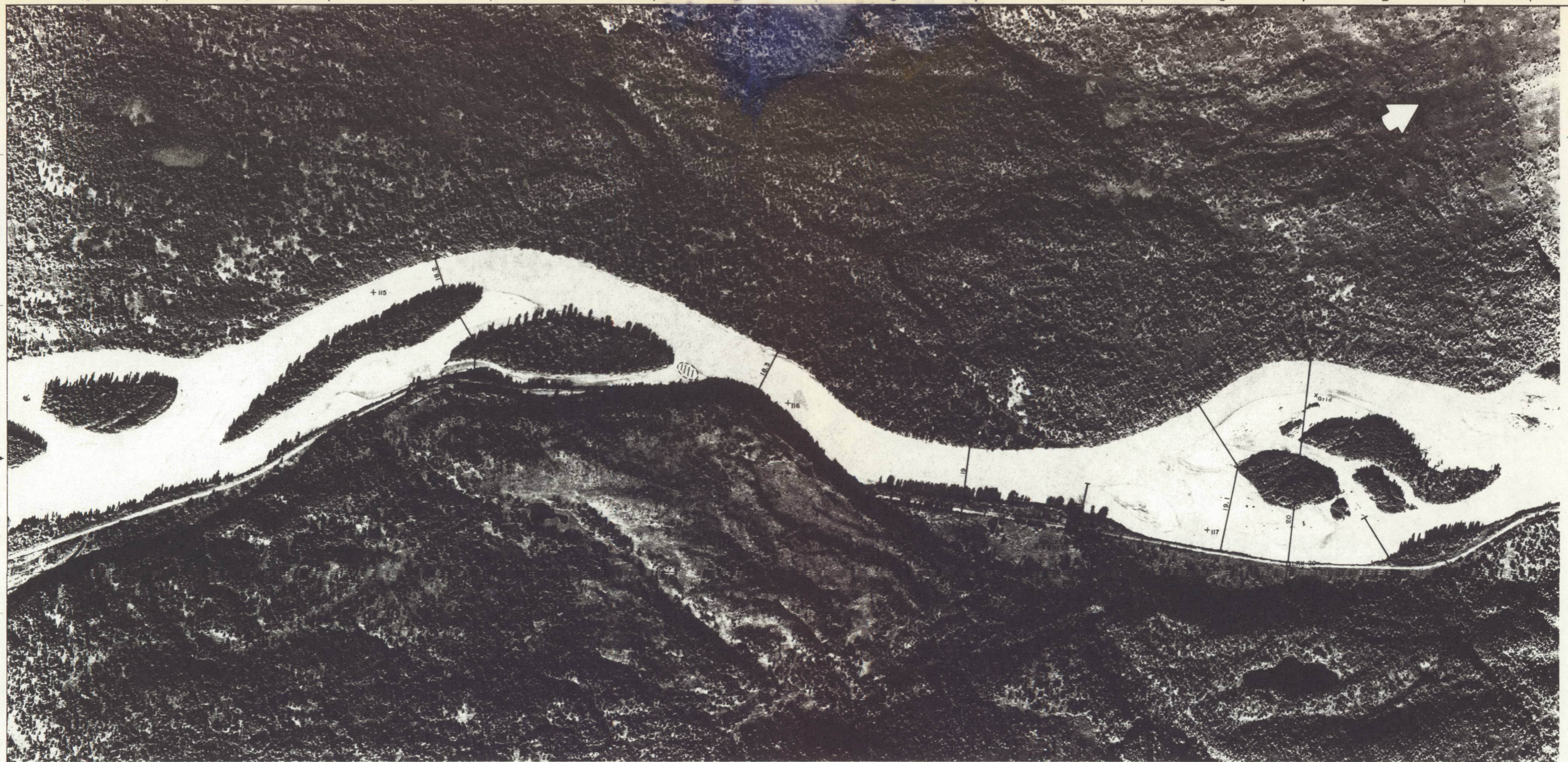
DATE JAN. 1981
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RSM
 R&M CONSULTANTS INC.

DATE	NO.	REVISIONS	CH.	APP.	APP.

APPLIED MECHANICAL ARCHITECTURAL CIVIL CONSTRUCTION ELECTRICAL GEOTECHNICAL HYDRAULIC MECHANICAL DESIGNED DRAWN CHECKED



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

Partial channel blockage
 X Grid sample location

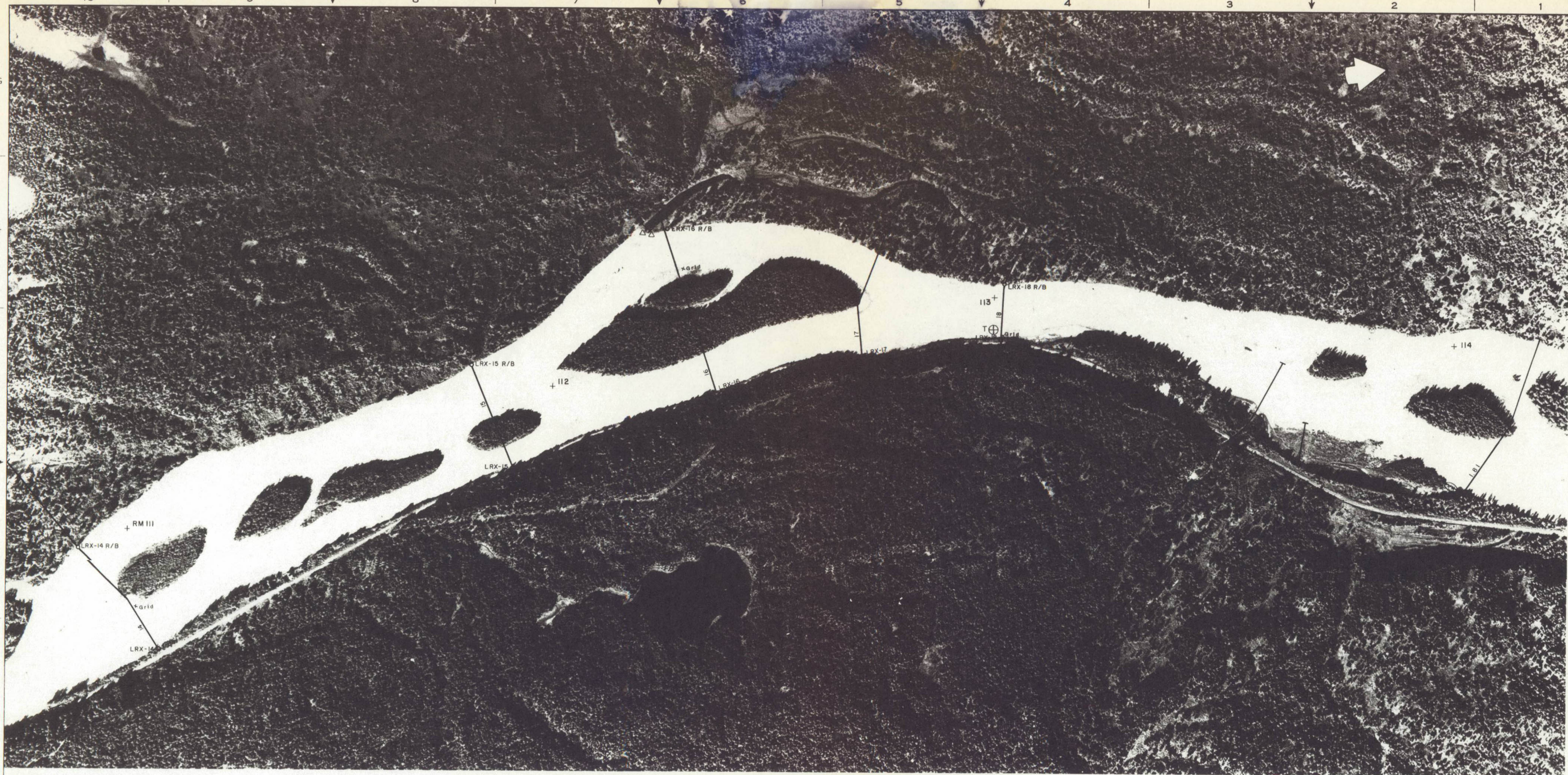
CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
19	LRX-19	15+68	496.41	Aluminum cap top of left bank.
20	LRX-20	13+09	503.98	Aluminum cap top of left bank.

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	ALASKA POWER AUTHORITY		DATE JAN. 1981	SCALE 1" = 500'
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Prepared by NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE, ALASKA



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

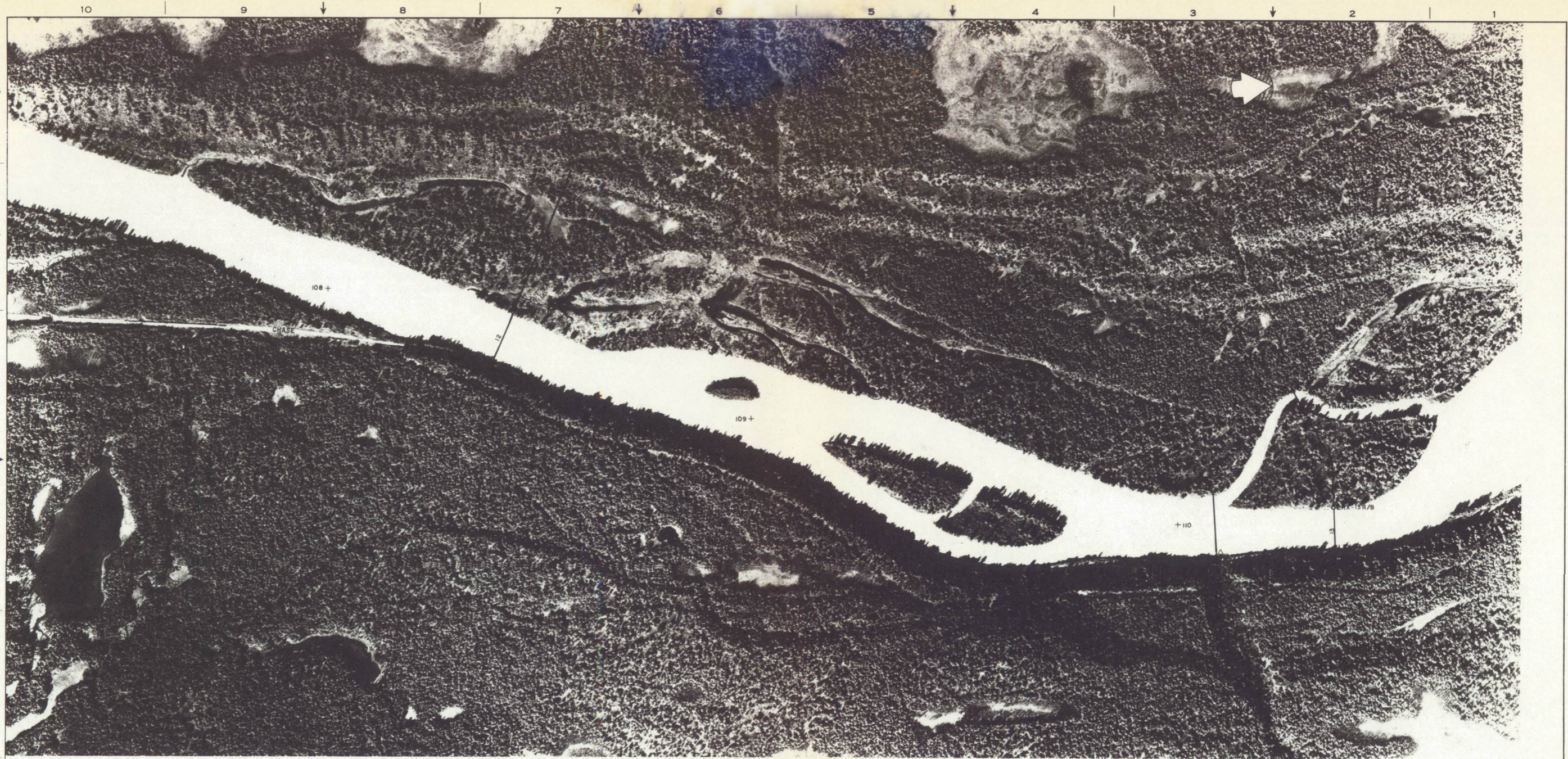
(XX) Total channel blockage
 X Grid sample location
 △ Staff gage
 ⊕ Thermograph location

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
14	LRX-14	10+89	450.92	Aluminum cap top of left bank.
	LRX-14 R/B	25+78	450.66	Rebar set in ground near toe of bank on line.
15	LRX-15	10+27	458.25	Aluminum cap top of left bank.
	LRX-15 R/B	23+40	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+94	465.45	Spike in 40" cottonwood offset 25 feet upstream and 20 feet west from top of right bank station.
17	LRX-17	10+35	471.59	Aluminum cap top of left bank.
18	LRX-18	10+61	469.91	Aluminum cap top of left bank.
	LRX-18 R/B	16+89	471.44	Nail set in tree offset 2 feet upstream of cross-section line along top of bank.

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



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

⊗ Total channel blockage

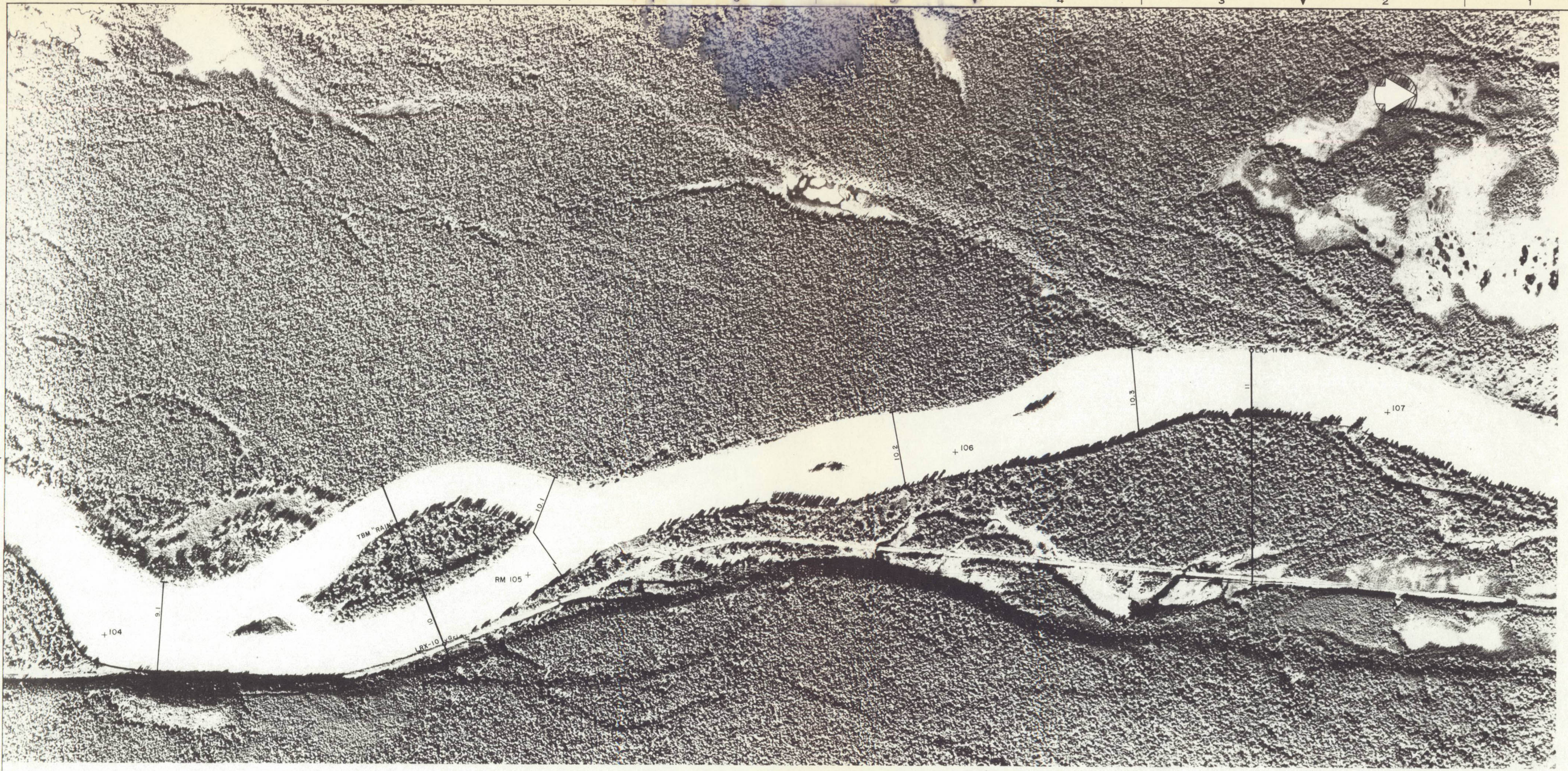
CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
12	TBM "236"	-	449.02	Spike in railroad tie 30 feet south of R.R. track culvert at Mile 236.63.
	LRX-12 R/B	16+84	434.38	Spike set in 25" cottonwood offset 1 foot upstream of line at top of right bank.
13	LRX-13	10+38	454.43	Aluminum cap top of left bank.
	LRX-13 R/B	15+55	445.90	Nail set in ground at top of right bank.
	"Tracks"	-	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.

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RSM R & M CONSULTANTS INC.	DATE JAN 1981	SCALE 1" = 500'
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Designed by NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE



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

STATION	BENCHMARK NAME	STATION	ELEVATION	DESCRIPTION
10	LRX-10	11+00	410.15	Aluminum cap top of left bank.
11	"RAIR"	25+00	404.63	Spike 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	LRX-11	11+30	420.88	Aluminum cap top of left bank.
11	LRX-11-RB	10+70	413.28	Rebar set near toe of right bank approximately on line.

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	DATE JAN 1981 DEPARTMENT PROJECT 052216	SCALE 1"=500' DRAWING NO. SHEET 15 OF 37
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Prepared by NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE, ALASKA



O1: Location of temporary benchmark - aluminum cap, nail or rebar.
 62: Numbers refer to cross-section numbers, i.e. 62 = LRX-62.

- Total channel blockage
- Partial channel blockage
- Grid sample location
- Staff gage
- Thermograph location

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
5	LRX-5	11+00	362.75	Aluminum cap set on top of far left bank.
	TBM "B"	20+40	362.40	Nail set in ground on west side of island, at top of bank.
6	LRX-6	11+00	371.16	Aluminum cap set on top of left bank.
	LRX-6 R/B	26+96	371.09	Rebar set on line at top of far right bank.
7	LRX-7	11+00	369.26	Aluminum cap set on top of left bank.
	"Whiskers"	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	20+35	383.70	Rebar set on line 27 feet west of top of right bank station.
9	LRX-9	11+00	387.82	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.

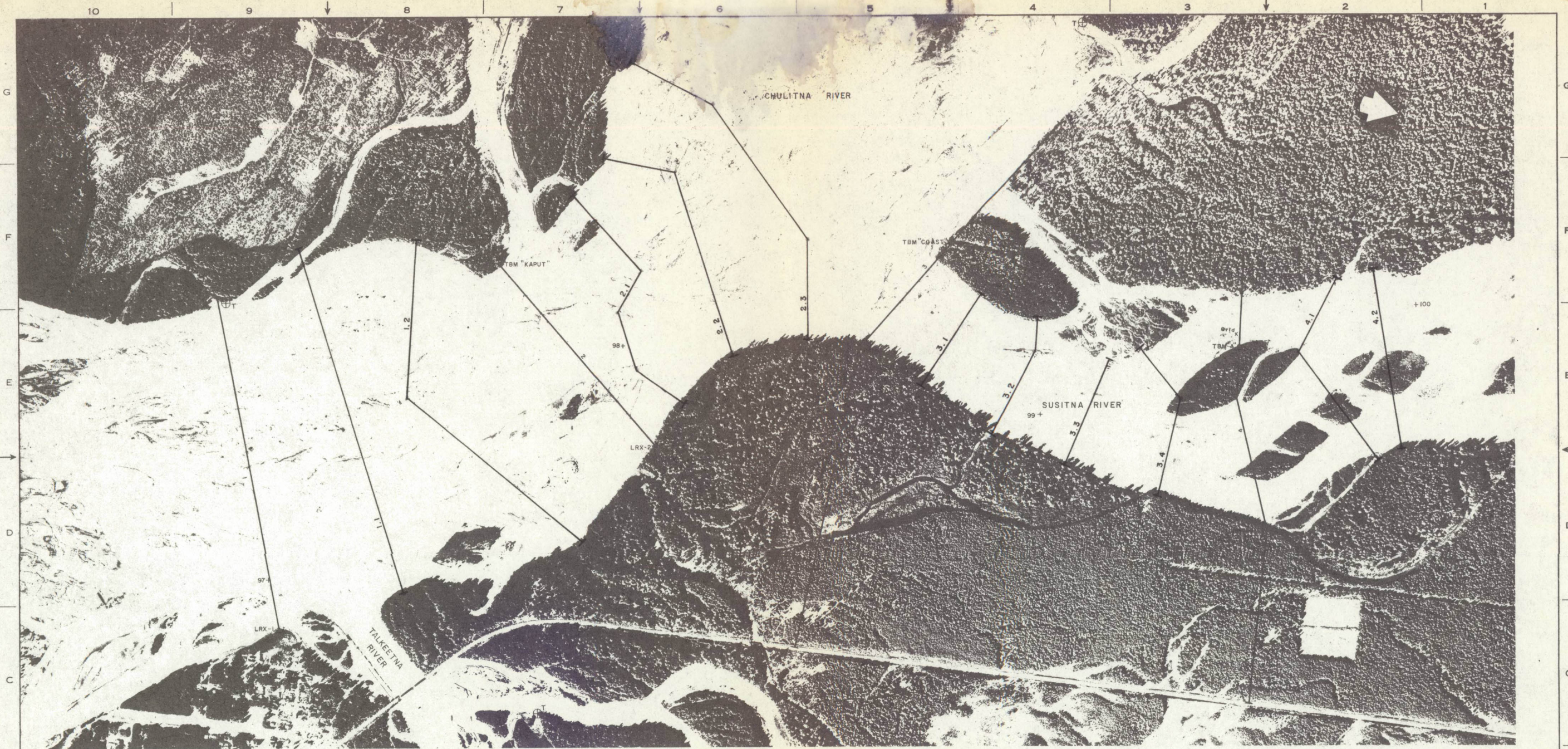
DATE	NO.	REVISIONS	CH.	APP.	APP.

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER
HYDROGRAPHIC MAP

RSM
 R & M CONSULTANTS, INC.

DATE JAN. 1981 SCALE 1" = 500'
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 PROJECT 052216 SHEET 16 OF 37



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

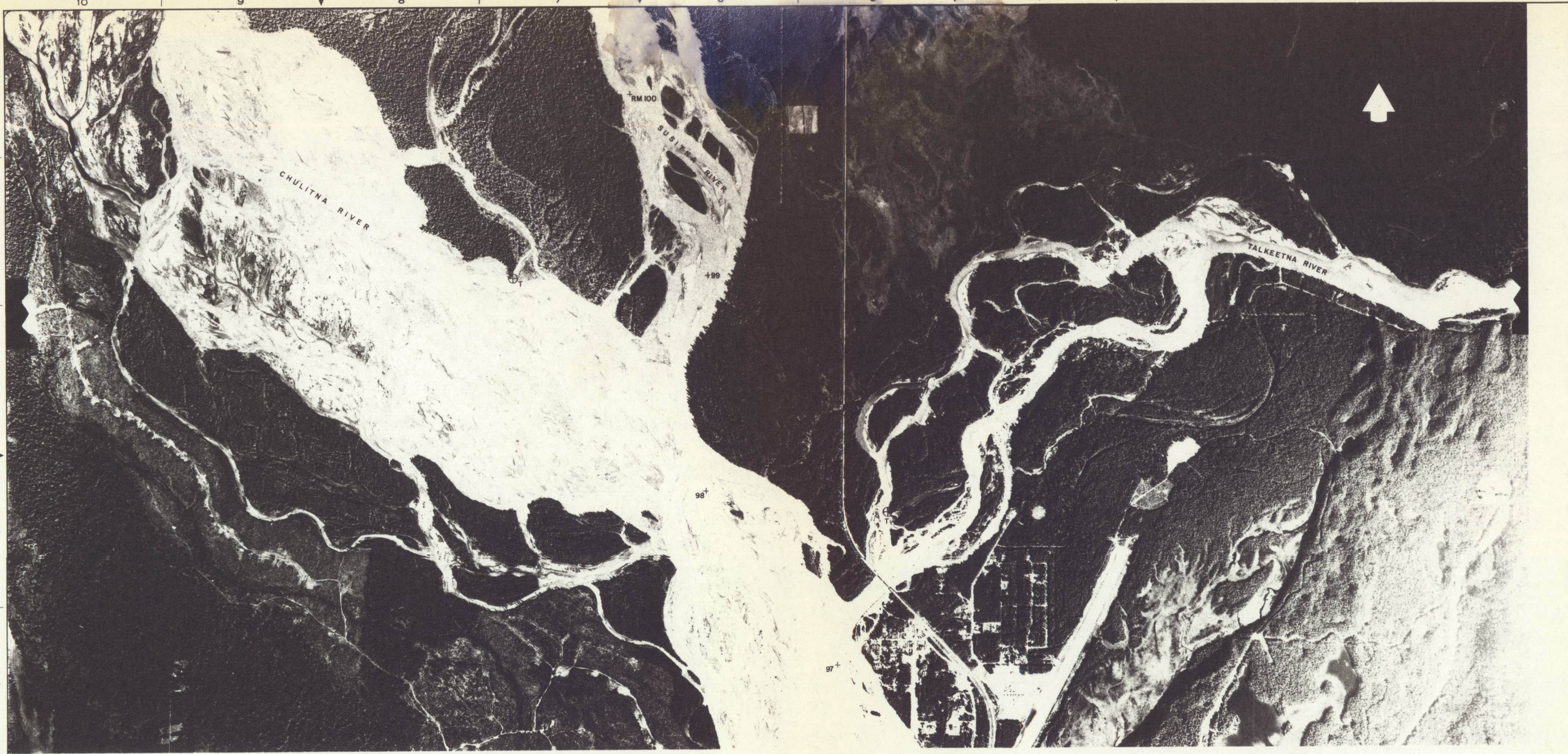
Partial channel blockage
 T - Thermograph location
 x Grid sample location

CROSS SECTION	TBM NAME	STATION	ELEVATION	DESCRIPTION
1	LRX-1	10+50	336.33	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+81	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"	46+74	349.68	Nail set in cottonwood log on bank of island.
4	LRX-4	-	352.30	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 alders.

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HYDROGRAPHIC MAPS		
RSM R&M CONSULTANTS, INC.	DATE JAN 1981	SCALE 1" = 500'
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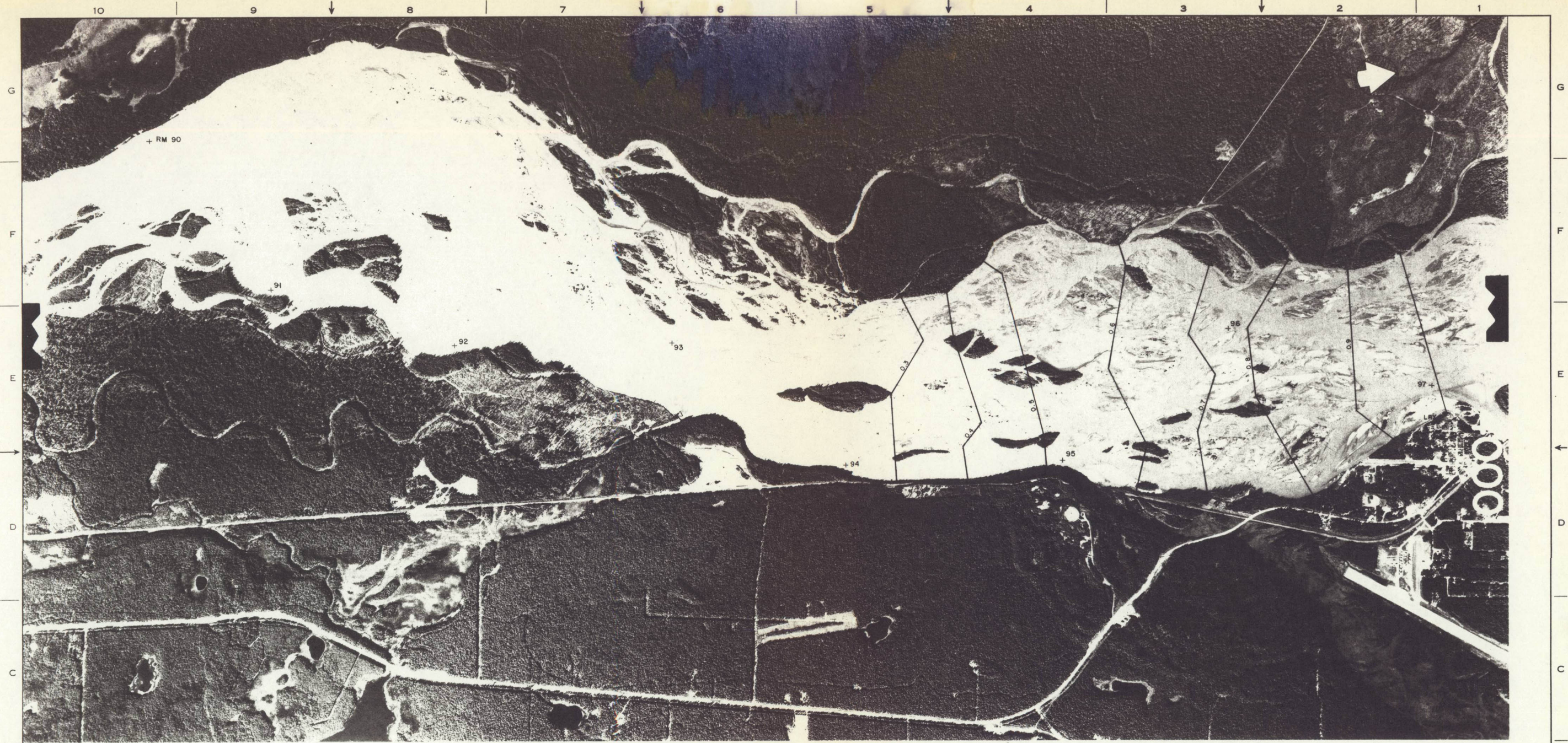
⊕T- Thermograph location

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	ALASKA POWER AUTHORITY	
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	DATE JAN 1981	SCALE 1"=1000'
	DEPARTMENT	DRAWING NO.
	PROJECT 052216	SHEET 18 OF 37

Prepared by: NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE, ALASKA



△ - Staff gage

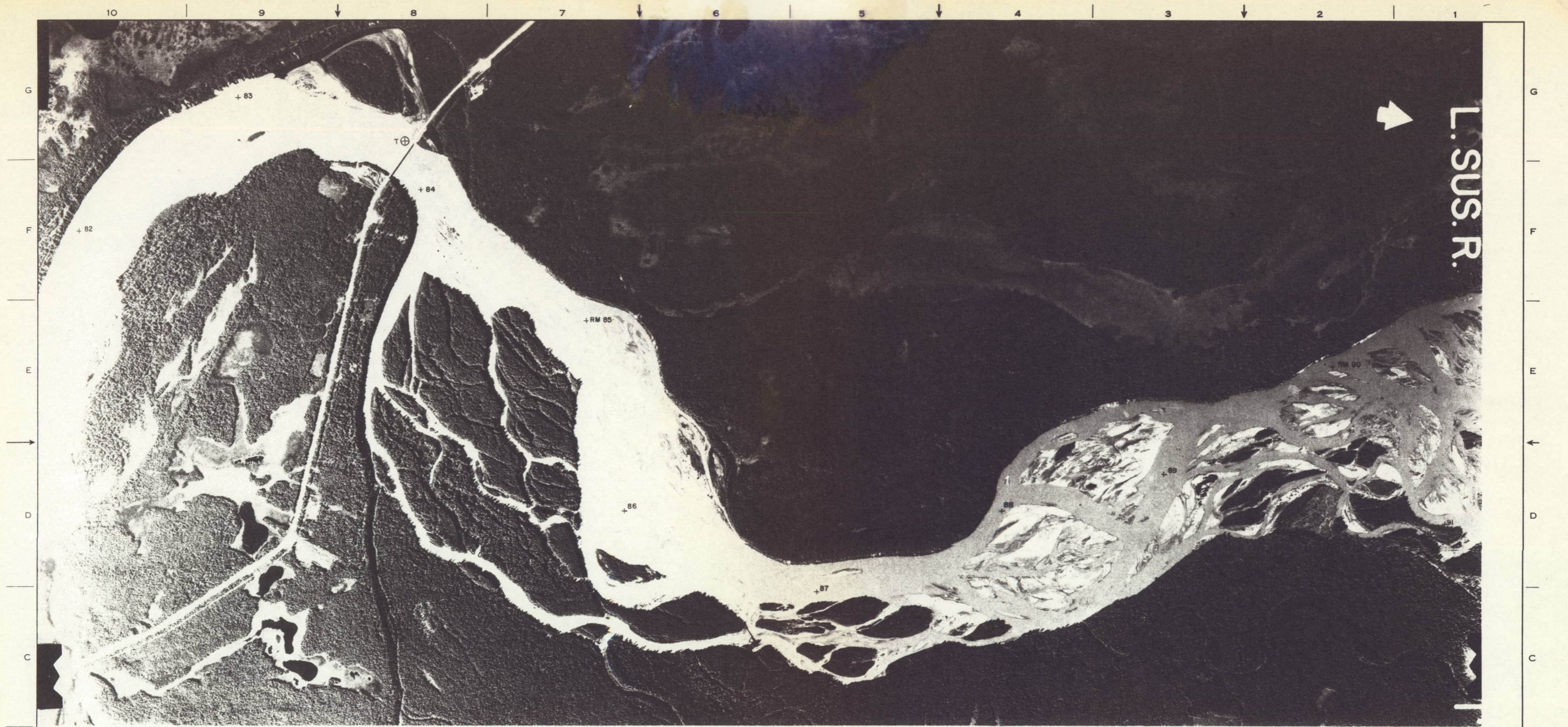
DRAWING NO. SHEET OF REV.

Prepared by NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE, ALASKA

DATE	NO.	REVISIONS	CH.	APP.	APP.

APCB	ALASKA POWER AUTHORITY	
	SUSITNA HYDROELECTRIC PROJECT	
SUSITNA RIVER HYDROGRAPHIC MAPS		
R&M R&M CONSULTANTS, INC.	DATE JAN. 1981	SCALE 1" = 1/400'
	DEPARTMENT	DRAWING NO.
	PROJECT 052216	SHEET 19 OF 37

APPLIED MECHANICS	ARCHITECTURAL	CIVIL	CONSTRUCTION	ELECTRICAL	GEOTECHNICAL	HYDRAULIC	MECHANICAL	DESIGNED	DRAWN	CHECKED
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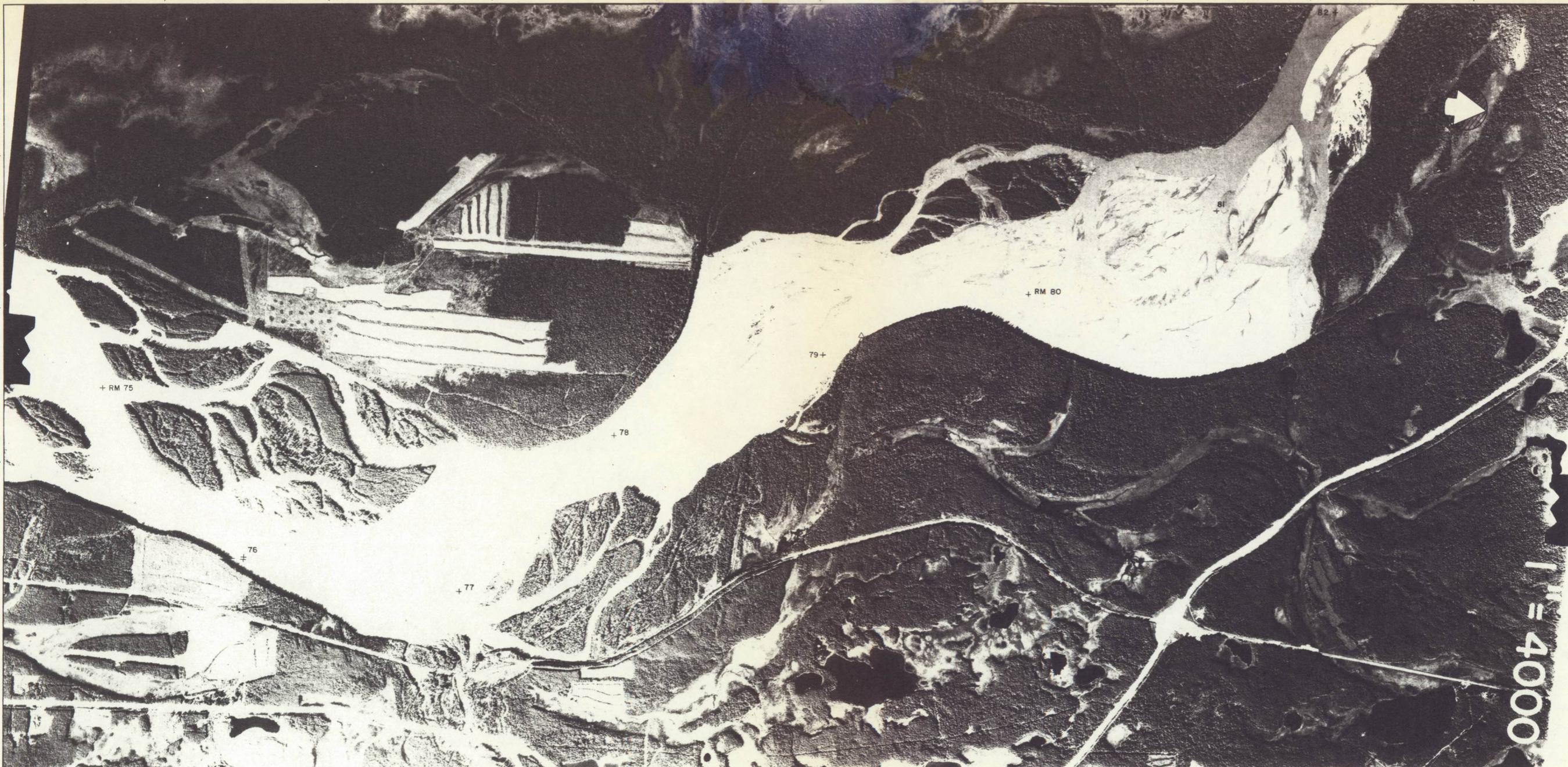
⊕ - Thermograph location
 △ - Staff gage

DRAWING NO. SHEET OF REV.

DATE	NO.	REVISIONS	CH.	APP.	APP.

	ALASKA POWER AUTHORITY	
	SUSITNA HYDROELECTRIC PROJECT	
SUSITNA RIVER HYDROGRAPHIC MAPS		
	DATE JAN. 1981	SCALE 1"=1000'
	DEPARTMENT	DRAWING NO.
	PROJECT 052216	SHEET 20 OF 37

Prepared by: NORTH PACIFIC AERIAL SURVEYS, INC. ANCHORAGE, ALASKA



△ - Staff gage

1" = 4000'

DRAWING NO. SHEET OF REV. OF

BRUNING 44 132 42973

DATE	NO.	REVISIONS	CH.	APP.	APP.

	ALASKA POWER AUTHORITY	
	SUSITNA HYDROELECTRIC PROJECT	
SUSITNA RIVER HYDROGRAPHIC MAPS		
	DATE JAN. 1981	SCALE 1" = 1000'
	DEPARTMENT	DRAWING NO.
PROJECT 052216	SHEET 21 OF 37	REV.

Prepared by NORTH PACIFIC AERIAL SURVEYS, INC., ANCHORAGE, ALASKA

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



△- Staff gage

ACRES	ALASKA POWER AUTHORITY	
	SUSITNA HYDROELECTRIC PROJECT	
SUSITNA RIVER HYDROGRAPHIC MAPS		
RSM R.S.M. CONSULTANTS, INC.	DATE JAN 1981	SCALE 1" = 1000'
	DEPARTMENT	DRAWING NO.
	PROJECT 052216	SHEET 22 OF 37

DATE	NO.	REVISIONS	CH.	APP.	APP.

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

DRAWING NO. SHEET OF REV. OF

BRUNING 44 132 40973

Prepared by NORTH PACIFIC AERIAL SURVEYS, INC. ALASKA