

図 6.10 ヘキサダイヤグラム

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE



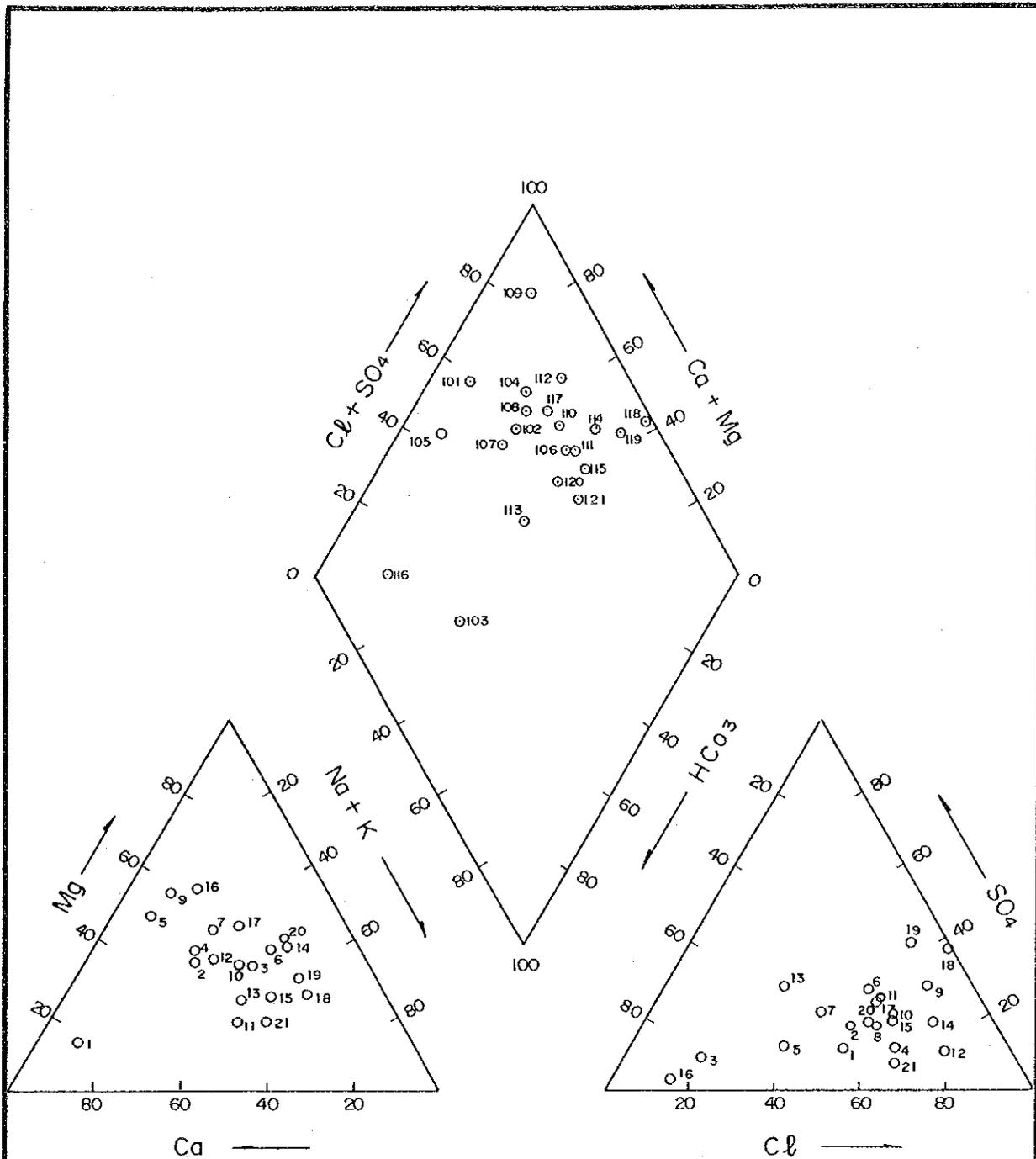


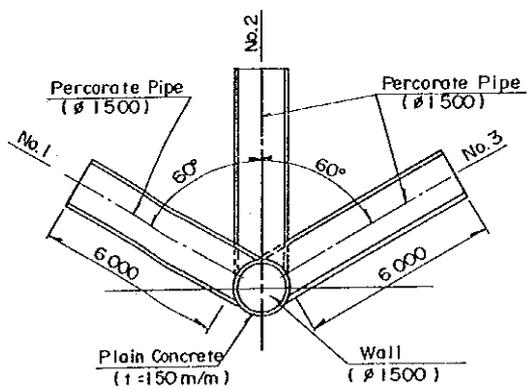
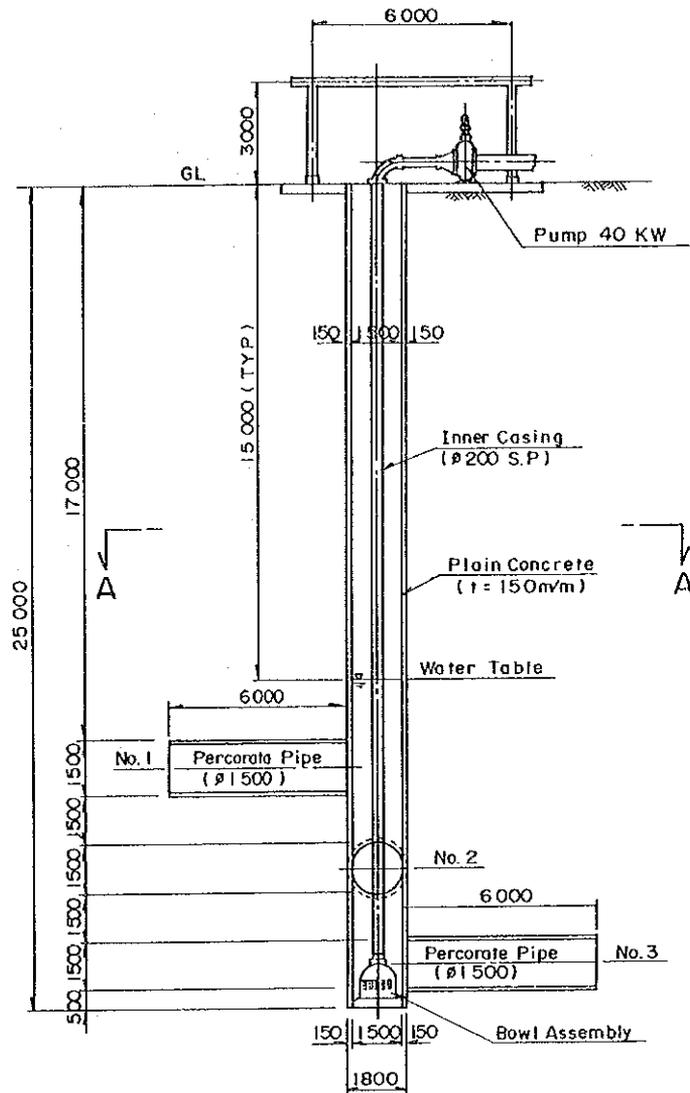
図6.11 パイパアダイヤグラム

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE







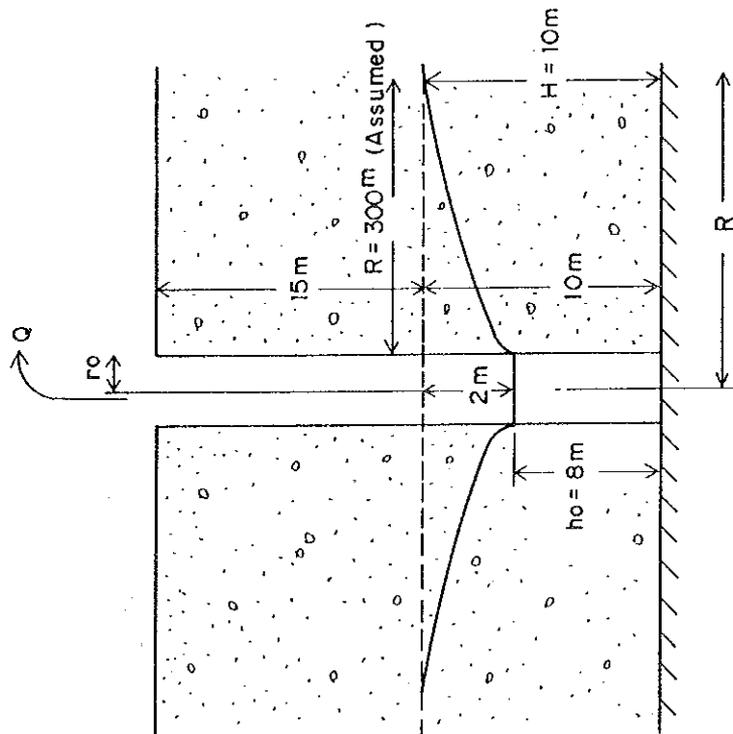


SECTION A - A

图 6.13 井 戸 构 造 图

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE





$$Q = \frac{\pi K (H^2 - h_0^2)}{\log_e (R / r_0)}$$

Q : discharge of well (ℓ/sec)

K : coefficient of permeability ( $2.4 \times 10^{-1}$  cm/sec)

H and  $h_0$ : saturated thickness of the aquifer at R and  $r_0$ , respectively

$r_0$ : radius of well (0.75m)

R : radius of influence (300m)

S : drawdown in the well (2m)

$$Q = \frac{\pi K (H^2 - h_0^2)}{\log_e (R / r_0)} = \frac{3.14 \times 0.0024 (100 - 64)}{\log_e (300 / 0.75)} = 0.045 \text{ m}^3/\text{sec}$$

$$= 45 \text{ ℓ/sec}$$

図 6.14 一本当りの井戸の揚水量 (定常流)

ADMINISTRATION DE L'HYDRAULIQUE

ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES

DANS LE BASSIN VERSANT DU RHERIS

AGENCE JAPONAISE DE COOPERATION INTERNATIONALE





FIG. 4.3.1 : POINTS D'ÉCHANTILLONNAGE

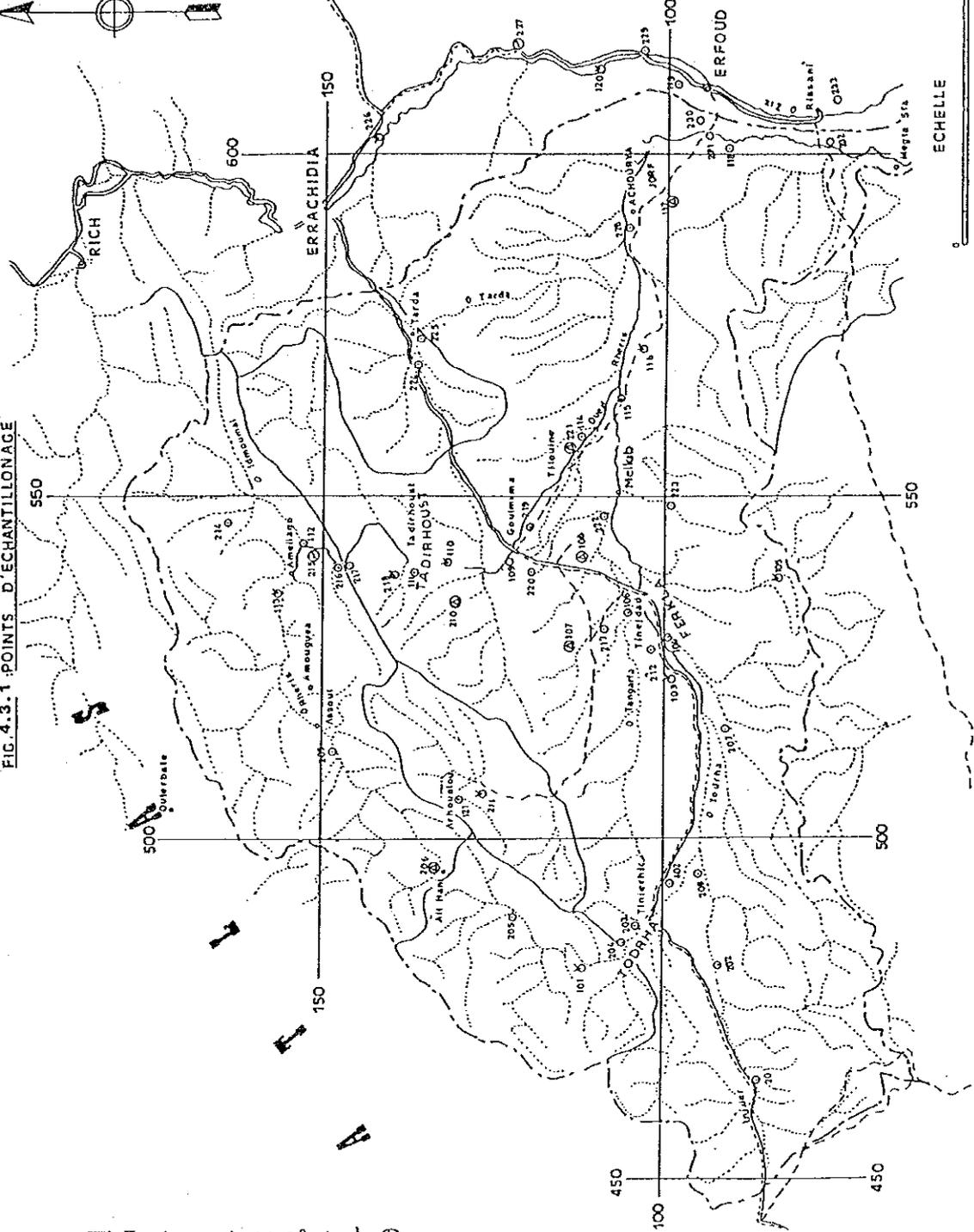


図 7.1 サンプル水の  
採水地点位置図

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE



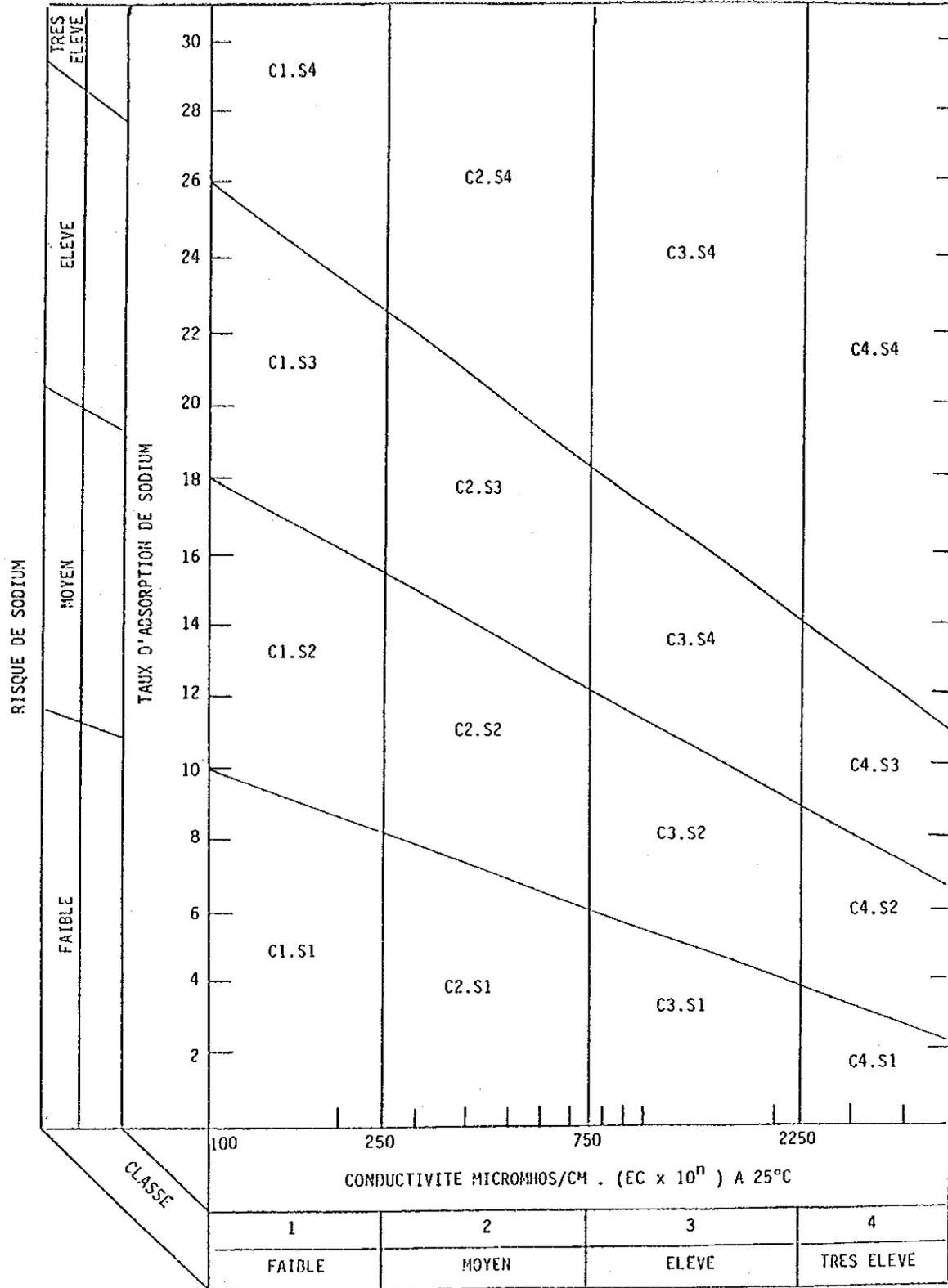


図 7.2 灌漑用水の適性区分図

ADMINISTRATION DE L'HYDRAULIQUE  
 ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES  
 DANS LE BASSIN VERSANT DU RHIERIS  
 AGENCE JAPONAISE DE COOPERATION INTERNATIONALE



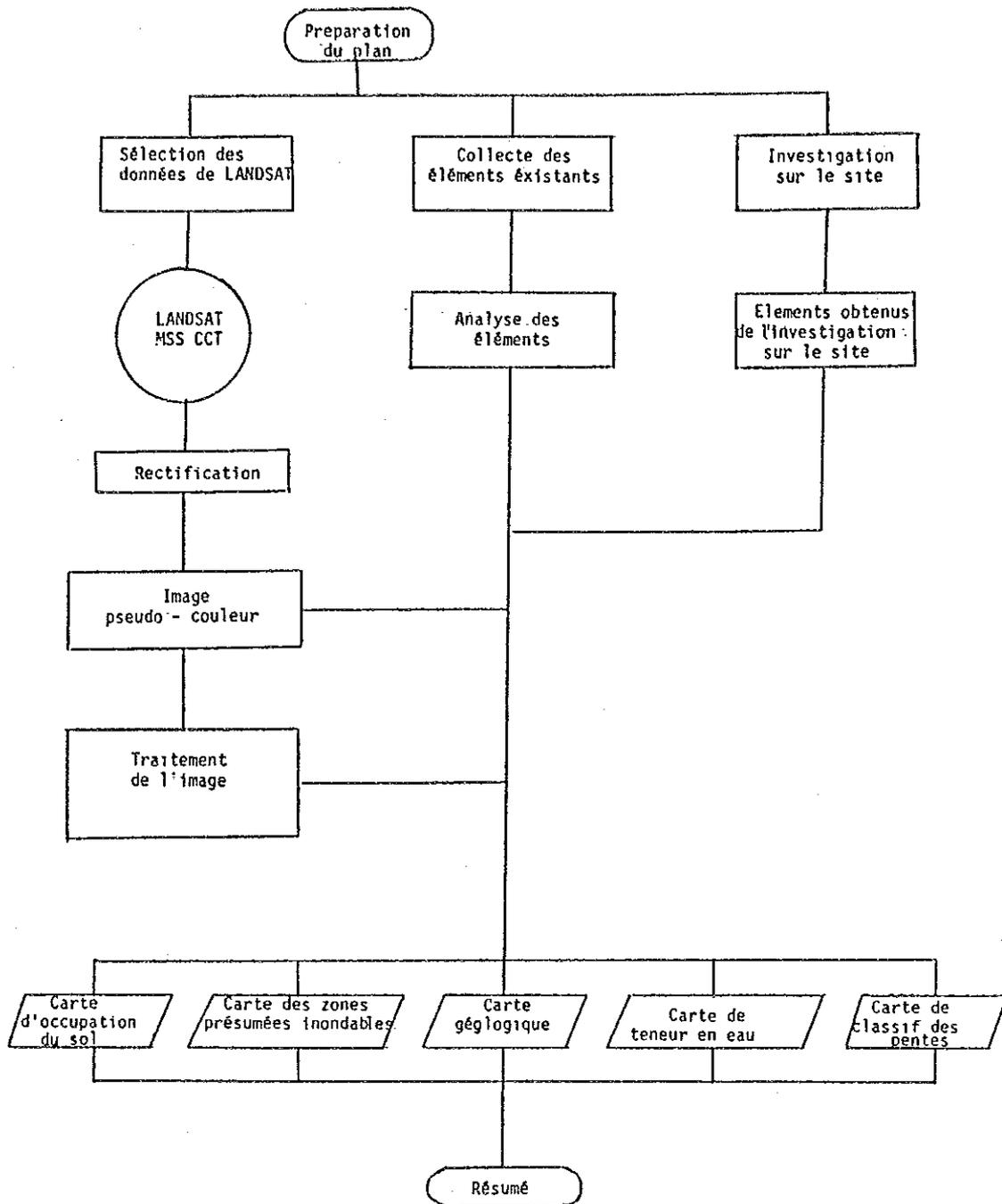


図 8.1 ランドサット (LANDSAT) データ解析フローチャート

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE



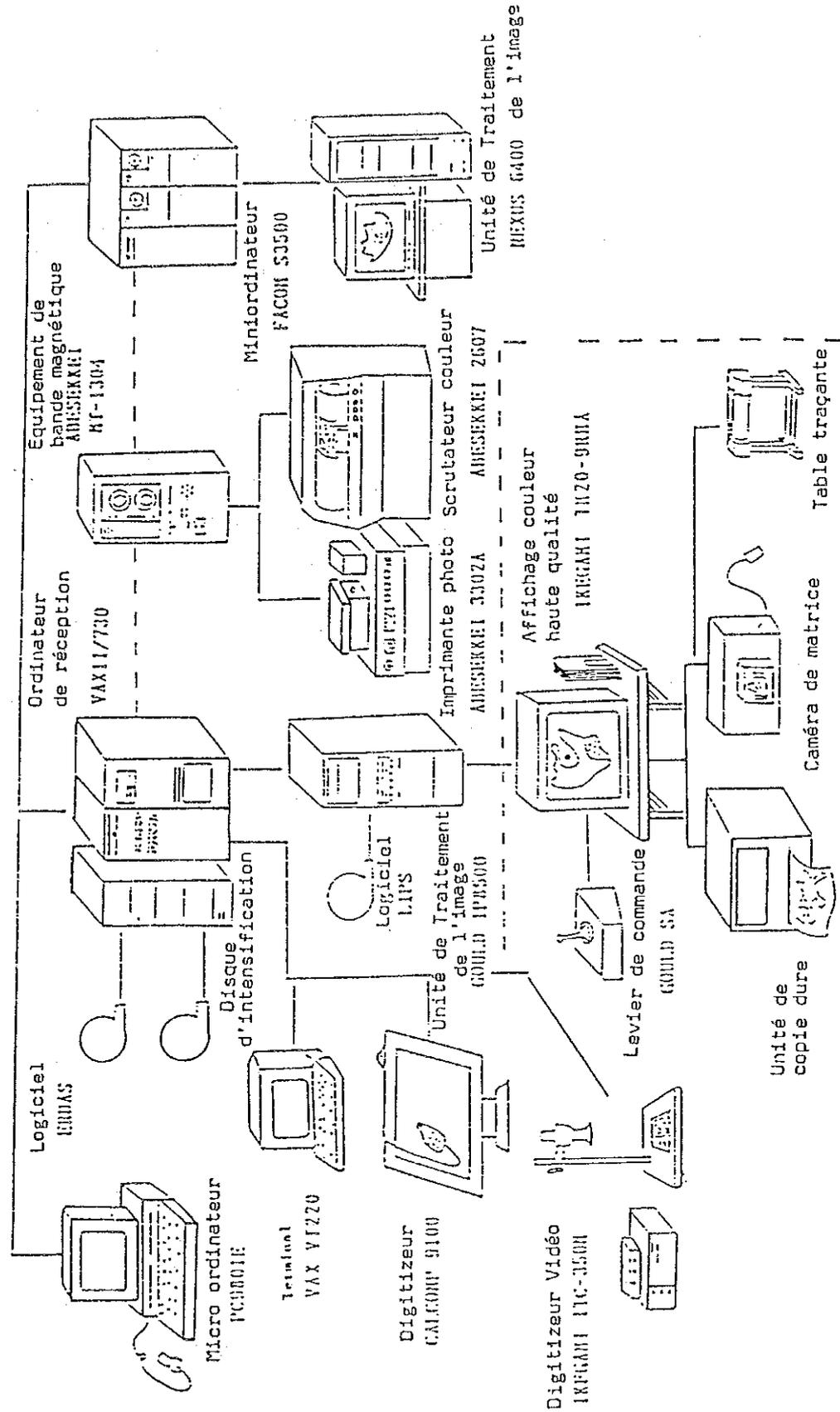
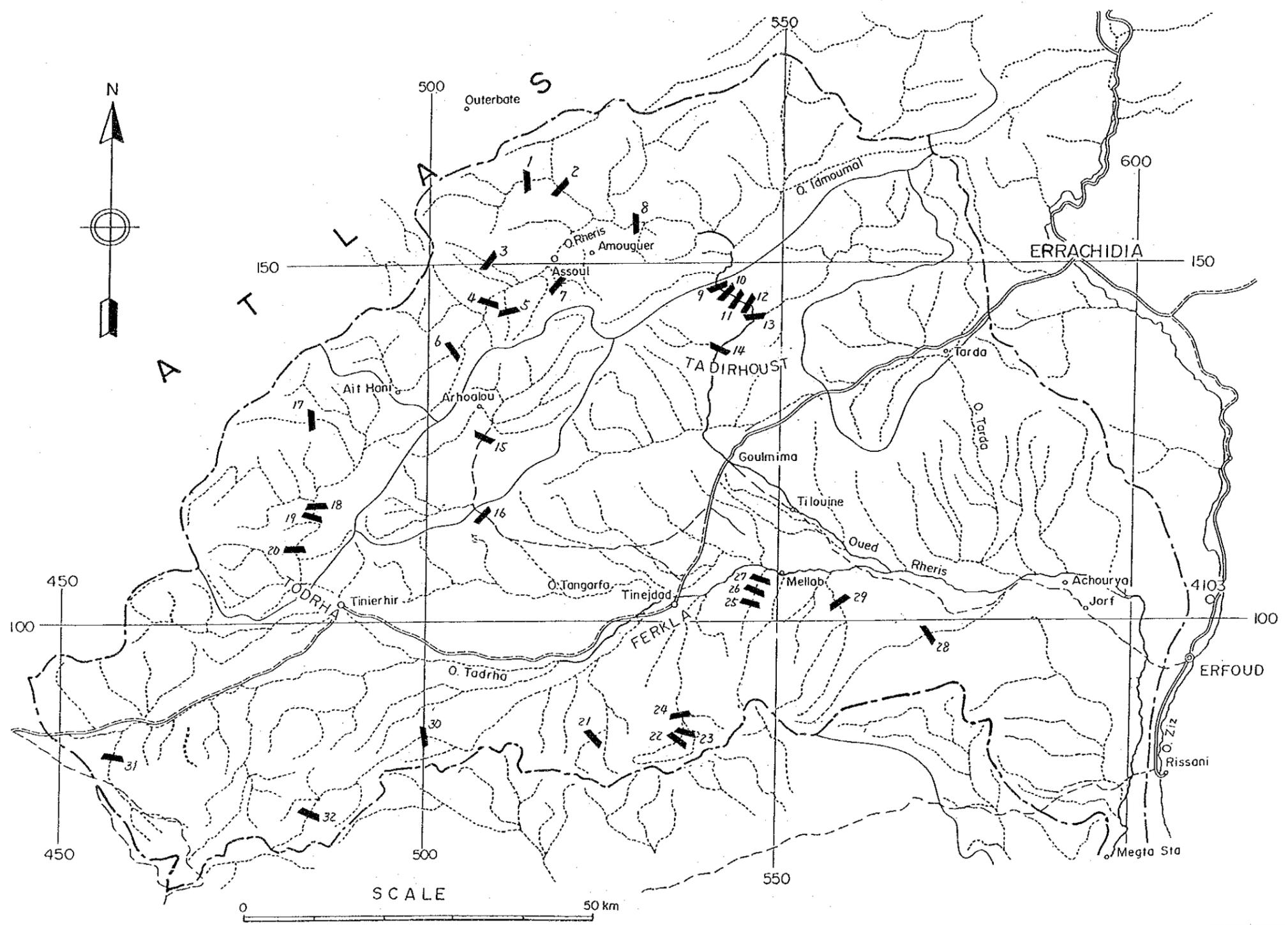


図 8. 2  
デジタル・イメージ解析システム図

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHÉRIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE



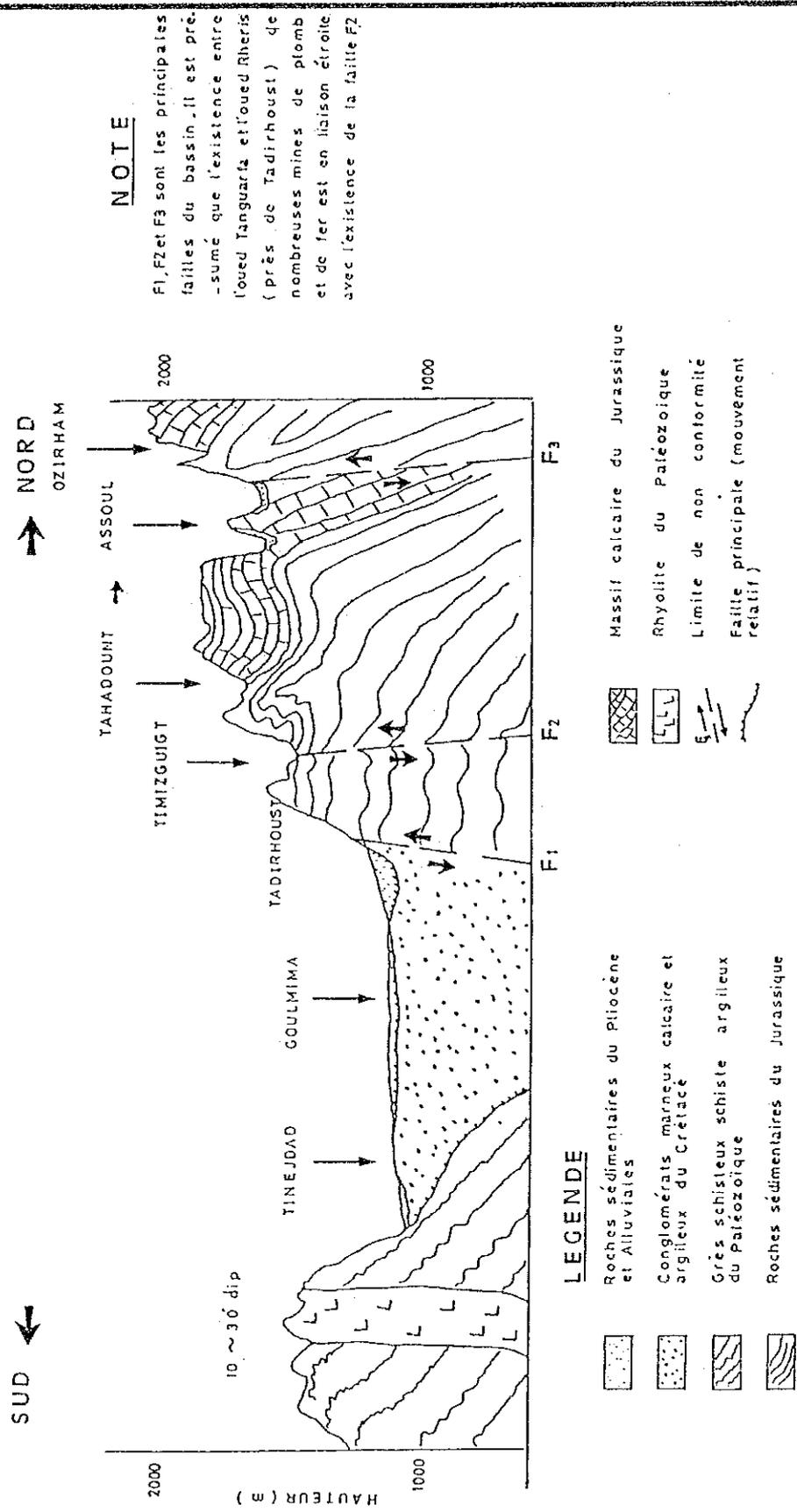
No.	Name of Damsite
1	Hoh Ou Yousef Amont(Up)
2	Hou Ou Yousef Aval(Down)
3	Ouzirham
4	Akdim
5	N'ouamane
6	Bou-Oudad
7	Aniraram
8	Imider(Rheris)
9	Tahandout Amont(Up)
10	Tahandout Aval(Down)
11	Ait Brah Im
12	Timizgulyt Amont(Up)
13	Timizgulyt Aval(Down)
14	Tadighoust
15	Taergoutout
16	Tinkit
17	n'Ouaouelzi
18	n'IrhenJaoune Amont(Up)
19	n'IrhenJaoune Aval(Down)
20	Tadrha
21	Ifni
22	Tarhoucht Amont(Up)
23	Tarhoucht Hoyen(middle)
24	Tarhoucht Aval(Down)
25	n'Herroutcha Amont(Up)
26	n'Herroutcha Hoyen(Middle)
27	n'Herroutcha Aval(Down)
28	Oukhit
29	Oulhou
30	Sarhro
31	Imider
32	Iknoun

図10.1 ダムサイト位置図

ADMINISTRATION DE L'HYDRAULIQUE  
 ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES  
 DANS LE BASSIN VERSANT DU RHERIS  
 AGENCE JAPONAISE DE COOPERATION INTERNATIONALE



FIG. 6.2.2 : PROFIL GEOLOGIQUE SCHEMATIQUE DU BASSIN



**NOTE**  
 F1, F2 et F3 sont les principales  
 failles du bassin. Il est pré-  
 -sumé que l'existence entre  
 l'oued Tanguarfa et l'oued Rheris  
 (près de Tadirhoust) de  
 nombreuses mines de plomb  
 et de fer est en liaison étroite  
 avec l'existence de la faille F2

**LEGENDE**  
 Roches sédimentaires du Pliocène  
 et Alluviales  
 Conglomérats marneux calcaire et  
 argileux du Crétacé  
 Grès schisteux schiste argileux  
 du Paléozoïque  
 Roches sédimentaires du Jurassique

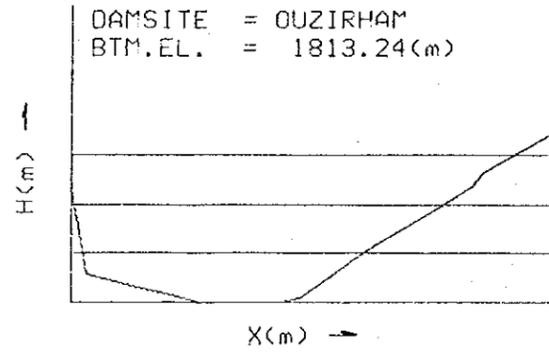
Massif calcaire du Jurassique  
 Rhyolite du Paléozoïque  
 Limite de non conformité  
 Faille principale (mouvement  
 relatif)

图10.2 レリス盆地の模式的な地質構造図

ADMINISTRATION DE L'HYDRAULIQUE  
 ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES  
 DANS LE BASSIN VERSANT DU RHERIS  
 AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

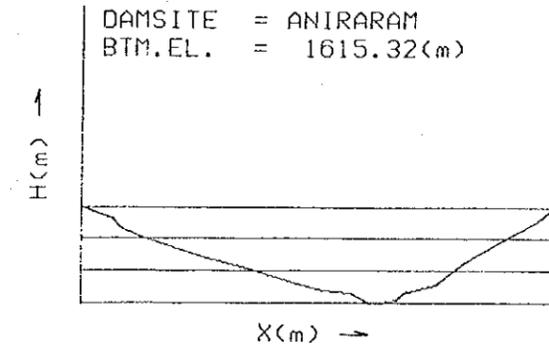
ID NO. = 3  
DAMSITE = OUZIRHAM

N	X(m)	EL(m)	H(m)
1	0.00	1835.34	22.10
2	1.48	1828.88	15.64
3	3.11	1819.88	5.78
4	25.68	1813.43	0.19
5	37.22	1813.50	0.26
6	42.17	1813.24	0.00
7	46.82	1814.35	1.11
8	68.88	1824.46	11.22
9	80.58	1836.78	23.54
10	82.83	1839.56	26.32
11	97.44	1847.91	34.67



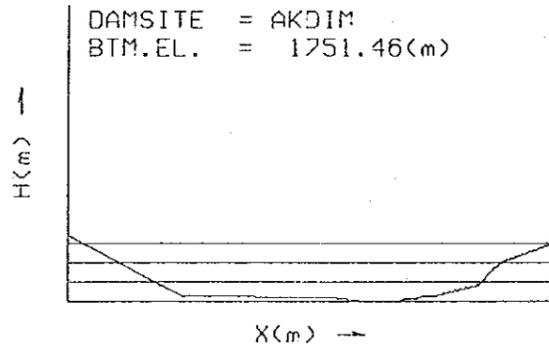
ID NO. = 7  
DAMSITE = ANIRARAM

N	X(m)	EL(m)	H(m)
1	0.00	1645.21	29.89
2	9.82	1641.80	26.48
3	12.18	1638.95	23.63
4	19.83	1636.81	20.69
5	37.47	1629.68	14.38
6	58.28	1626.13	10.81
7	65.82	1622.80	8.68
8	74.81	1618.42	4.18
9	83.82	1618.68	3.36
10	88.52	1615.32	0.00
11	92.52	1615.32	0.00
12	97.18	1616.30	1.04
13	99.41	1618.35	3.83
14	108.92	1628.88	5.56
15	117.52	1627.92	12.25
16	148.57	1648.28	25.46
17	148.79	1647.25	32.43



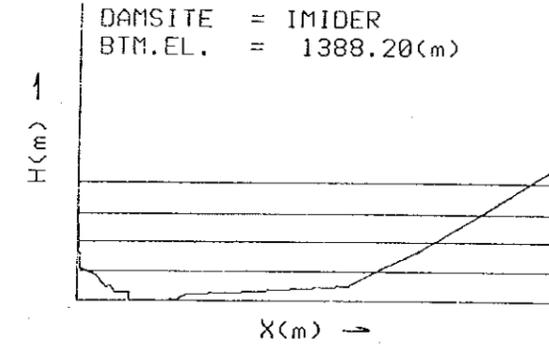
ID NO. = 4  
DAMSITE = AKDIM

N	X(m)	EL(m)	H(m)
1	0.00	1785.79	34.33
2	24.73	1772.49	21.83
3	46.82	1768.47	9.81
4	58.58	1754.71	3.25
5	134.56	1753.67	2.21
6	151.15	1751.46	0.88
7	163.56	1751.88	0.34
8	173.46	1753.85	1.59
9	178.89	1753.39	1.93
10	182.49	1755.88	3.54
11	188.22	1754.99	3.53
12	218.72	1768.82	8.56
13	217.85	1768.32	16.86
14	222.15	1771.32	19.91
15	248.21	1781.72	38.26



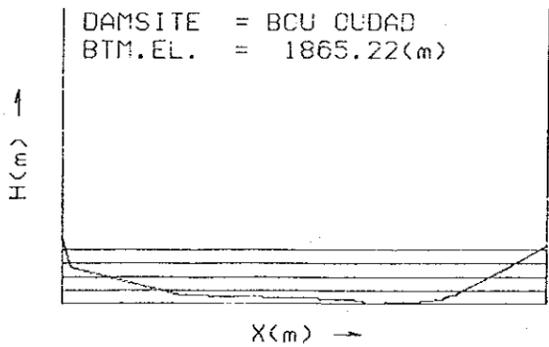
ID NO. = 8  
DAMSITE = IMIDER

N	X(m)	EL(m)	H(m)
1	0.00	1420.88	31.88
2	1.88	1399.31	11.11
3	6.45	1397.86	8.86
4	18.15	1393.14	4.94
5	11.45	1393.48	5.28
6	13.82	1391.35	2.25
7	16.78	1391.88	2.88
8	17.88	1391.88	2.88
9	18.81	1388.28	0.88
10	29.45	1388.56	8.38
11	34.79	1388.86	8.68
12	37.92	1388.91	2.71
13	51.72	1391.12	2.92
14	98.76	1393.35	5.15
15	188.25	1398.15	9.95
16	114.53	1484.75	16.55
17	162.64	1434.48	48.28



ID NO. = 6  
DAMSITE = BCU OUDAD

N	X(m)	EL(m)	H(m)
1	0.00	1912.89	47.67
2	6.46	1892.25	27.83
3	85.88	1871.46	6.24
4	218.87	1869.83	3.81
5	221.23	1867.65	2.43
6	223.55	1865.68	8.46
7	229.88	1865.22	8.88
8	245.52	1867.18	1.96
9	258.78	1867.16	1.94
10	273.63	1869.24	4.82
11	285.88	1871.88	5.78
12	286.52	1872.28	6.98
13	291.88	1872.88	6.86
14	293.88	1873.88	8.66
15	324.84	1889.51	24.29
16	358.38	1988.49	43.27



ID NO. = 9  
DAMSITE = TAHAMOUNT

N	X(m)	EL(m)	H(m)
1	0.00	1317.68	42.78
2	23.34	1288.81	15.91
3	32.25	1288.88	13.18
4	49.68	1277.88	2.18
5	68.28	1277.22	2.32
6	91.51	1274.88	8.88
7	113.87	1275.84	8.14
8	128.82	1275.84	8.14
9	129.82	1285.56	18.68
10	142.26	1291.47	16.57
11	143.37	1295.13	28.23
12	151.68	1295.13	24.23
13	163.88	1389.97	35.87

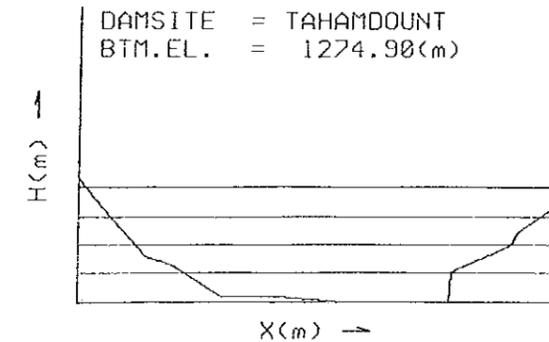
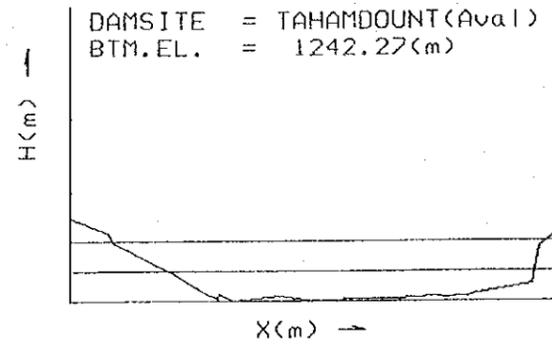


図10.3 各ダムサイトの横断図 (1/4)

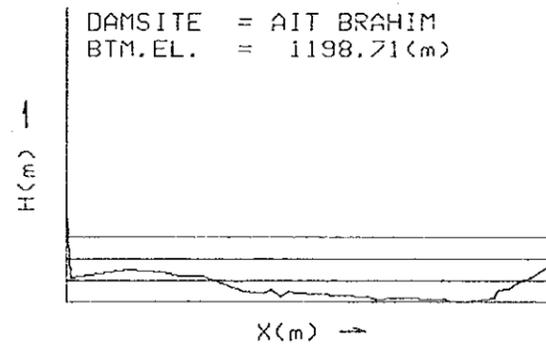
ID NO. = 10  
DAMSITE = TAHAMDOUNT(Aval)

N	X(m)	EL(m)	H(m)
1	0.00	1270.33	28.06
2	12.42	1264.92	22.65
3	14.29	1261.86	19.59
4	33.78	1251.58	9.23
5	44.14	1244.98	2.71
6	47.62	1243.18	0.91
7	48.12	1244.78	2.51
8	53.20	1242.27	0.00
9	67.21	1244.38	2.11
10	75.18	1242.93	0.66
11	101.14	1243.26	0.99
12	106.71	1243.62	1.35
13	110.12	1244.00	1.73
14	119.59	1244.19	1.92
15	121.10	1243.88	1.61
16	128.92	1244.15	1.88
17	129.71	1244.75	2.48
18	149.71	1248.33	6.06
19	151.73	1268.73	18.46
20	158.46	1266.04	23.77



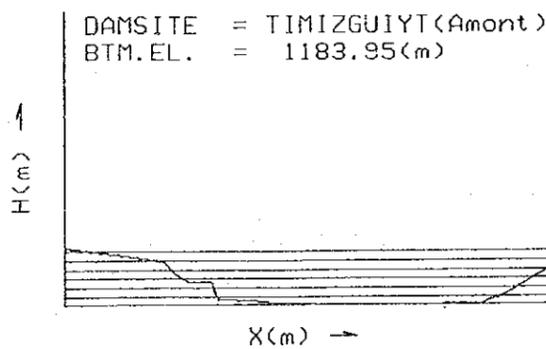
ID NO. = 11  
DAMSITE = AIT BRAHIM

N	X(m)	EL(m)	H(m)
1	0.00	1236.92	38.21
2	2.25	1239.96	11.25
3	28.24	1213.66	14.95
4	43.84	1212.46	13.75
5	58.83	1210.85	12.14
6	68.84	1210.56	11.85
7	78.91	1204.15	5.44
8	83.85	1203.59	4.88
9	88.24	1203.41	4.78
10	91.89	1204.31	5.68
11	95.28	1201.26	2.55
12	98.86	1204.84	5.33
13	101.78	1203.29	4.58
14	121.78	1202.00	3.28
15	134.52	1201.38	2.87
16	138.68	1206.24	1.53
17	147.95	1200.66	1.95
18	168.58	1199.35	1.24
19	171.57	1199.28	0.57
20	179.58	1198.71	0.08
21	191.74	1200.93	2.22
22	193.72	1204.66	5.35
23	197.53	1205.14	9.43
24	202.26	1203.01	10.38
25	207.63	1218.46	11.75
26	216.78	1216.29	17.58



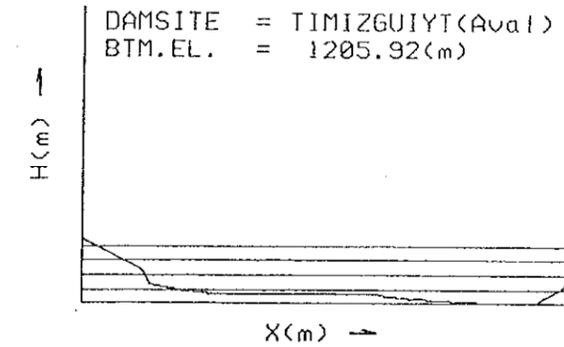
ID NO. = 12  
DAMSITE = TIMIZGUIYT(Amont)

N	X(m)	EL(m)	H(m)
1	0.00	1247.48	63.45
2	186.98	1232.78	48.83
3	118.32	1218.58	35.55
4	133.78	1209.60	25.65
5	157.25	1209.61	25.66
6	168.98	1208.25	24.38
7	161.92	1200.45	16.58
8	166.34	1191.31	7.36
9	207.32	1189.76	5.81
10	211.27	1187.33	3.38
11	231.27	1185.76	1.81
12	239.27	1185.00	1.65
13	247.27	1186.32	2.37
14	269.27	1185.73	1.78
15	279.31	1183.95	0.88
16	33.32	1184.04	0.89
17	347.31	1184.67	0.72
18	382.33	1184.73	0.78
19	391.33	1185.39	1.44
20	429.27	1186.08	2.05
21	433.82	1185.96	1.95
22	453.27	1186.46	2.51
23	468.31	1189.15	6.20
24	471.32	1184.87	19.12
25	488.58	1204.83	28.88
26	506.54	1215.26	31.31
27	523.84	1224.67	48.72



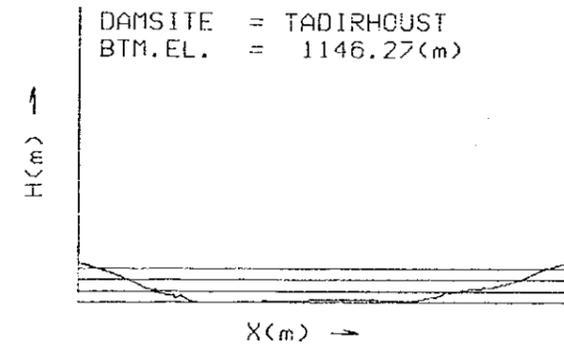
ID NO. = 13  
DAMSITE = TIMIZGUIYT(Aval)

N	X(m)	EL(m)	H(m)
1	0.00	1258.48	44.48
2	39.58	1229.34	23.42
3	41.34	1228.85	22.13
4	48.24	1219.34	14.82
5	69.97	1214.49	8.57
6	81.96	1213.64	7.72
7	87.97	1212.65	6.73
8	153.97	1212.68	6.76
9	169.97	1213.85	7.13
10	195.96	1213.88	7.88
11	284.12	1211.38	5.38
12	216.83	1219.24	4.32
13	222.32	1208.88	2.88
14	257.41	1207.59	1.67
15	273.39	1206.79	0.87
16	279.36	1206.13	0.21
17	285.11	1205.92	0.00
18	385.53	1206.59	0.67
19	389.88	1210.34	4.42
20	314.98	1213.82	7.15
21	321.87	1216.38	10.38
22	323.77	1218.37	12.45
23	327.67	1235.36	29.44



ID NO. = 14  
DAMSITE = TADIRHOUST

N	X(m)	EL(m)	H(m)
1	0.00	1188.99	34.72
2	7.32	1179.75	32.48
3	28.69	1171.28	24.93
4	52.14	1161.68	15.33
5	57.78	1158.12	11.85
6	65.92	1157.78	11.43
7	68.94	1155.41	9.14
8	77.22	1152.91	6.64
9	81.31	1152.53	6.26
10	83.14	1158.88	4.53
11	87.21	1153.88	6.73
12	95.58	1147.79	1.52
13	108.59	1146.53	0.26
14	117.88	1146.48	0.21
15	143.33	1146.27	0.88
16	168.87	1148.86	1.79
17	222.88	1143.18	2.83
18	285.86	1147.92	1.65
19	307.21	1152.72	6.45
20	313.18	1156.84	9.77
21	314.18	1154.54	8.27
22	335.18	1158.65	12.38
23	351.75	1168.13	13.86
24	376.65	1166.44	28.17
25	391.72	1175.13	28.86
26	411.67	1188.49	34.22



ID NO. = 15  
DAMSITE = TAERGUIOUT

N	X(m)	EL(m)	H(m)
1	0.00	1421.98	46.98
2	2.18	1485.27	38.27
3	6.81	1393.56	18.56
4	28.54	1386.42	11.42
5	34.24	1375.37	8.37
6	48.24	1375.88	8.88
7	59.23	1375.18	8.18
8	73.29	1388.94	13.94
9	78.48	1398.87	15.87
10	115.28	1421.85	46.85

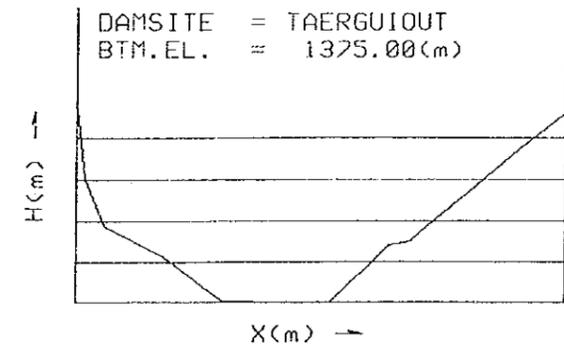
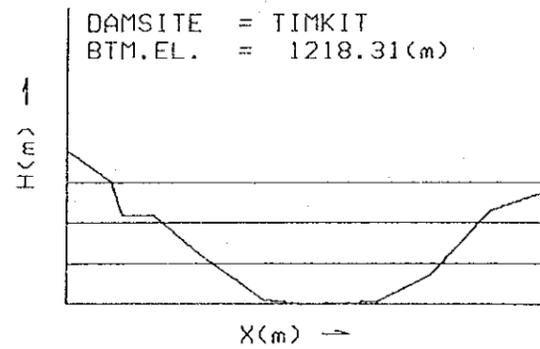


図10.3 各ダムサイトの横断図(2/4)

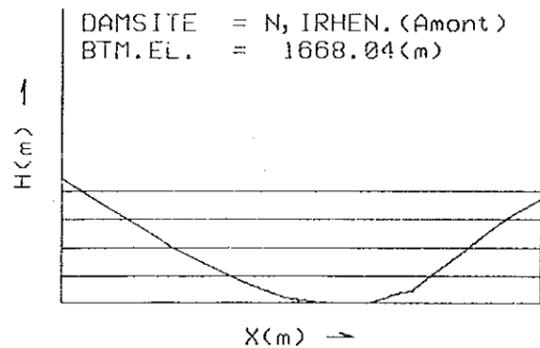
ID NO. = 16  
DAMSITE = TIMKIT

N	X(m)	EL(m)	H(m)
1	0.00	1255.90	37.59
2	10.82	1240.20	29.97
3	13.57	1240.07	21.76
4	20.77	1240.00	21.69
5	30.50	1231.74	13.43
6	42.25	1219.48	1.17
7	57.74	1210.31	0.00
8	74.54	1219.22	0.91
9	87.69	1225.90	7.59
10	102.76	1241.34	23.03
11	116.45	1246.45	28.14



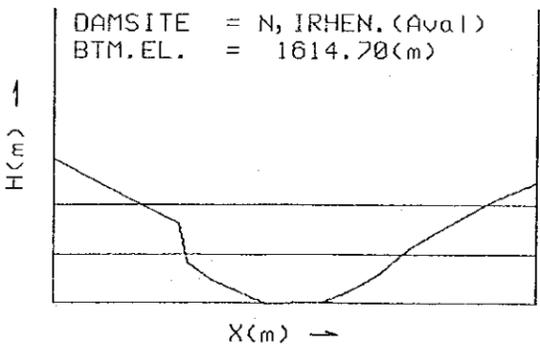
ID NO. = 18  
DAMSITE = N, IRHEN. (Amont)

N	X(m)	EL(m)	H(m)
1	0.00	1712.13	44.89
2	36.35	1689.00	20.90
3	61.53	1675.70	7.60
4	77.12	1670.89	2.85
5	89.23	1660.04	0.00
6	105.61	1668.42	0.38
7	109.12	1669.00	0.96
8	117.26	1672.15	4.11
9	121.25	1672.34	4.30
10	124.70	1675.64	7.60
11	136.76	1684.71	16.67
12	154.10	1697.13	29.09
13	166.77	1705.00	37.04



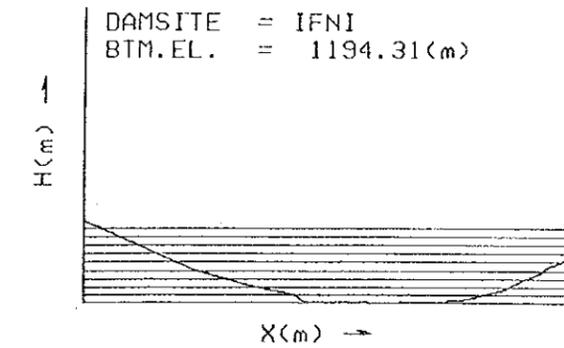
ID NO. = 19  
DAMSITE = N, IRHEN. (Aval)

N	X(m)	EL(m)	H(m)
1	0.00	1643.77	29.07
2	9.33	1638.77	24.07
3	24.04	1630.70	16.00
4	26.29	1623.02	8.32
5	31.10	1619.57	4.87
6	41.56	1614.70	0.00
7	52.00	1615.00	0.30
8	53.48	1615.15	0.45
9	58.17	1616.97	2.27
10	67.45	1619.55	4.85
11	84.53	1620.90	6.20
12	70.20	1625.74	11.04
13	79.20	1631.00	16.30
14	80.81	1635.25	20.55
15	95.60	1639.01	24.31



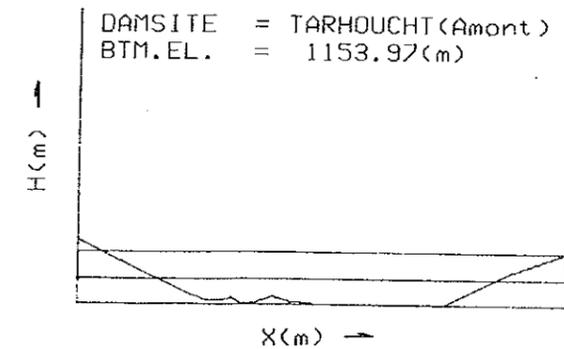
ID NO. = 21  
DAMSITE = IFNI

N	X(m)	EL(m)	H(m)
1	0.00	1292.33	90.02
2	113.75	1241.35	47.04
3	131.67	1233.26	38.95
4	150.10	1225.68	31.37
5	179.16	1219.93	25.00
6	203.07	1212.34	16.83
7	240.93	1204.21	8.98
8	252.60	1197.96	3.05
9	260.60	1196.50	2.27
10	300.00	1197.49	3.18
11	322.60	1197.16	2.85
12	329.67	1195.00	1.37
13	352.03	1194.31	0.60
14	372.00	1196.70	1.89
15	370.00	1197.00	2.69
16	382.79	1197.23	2.92
17	403.48	1197.24	2.93
18	435.58	1198.47	4.16
19	452.30	1202.26	7.95
20	486.73	1211.07	17.56
21	501.01	1210.63	24.32
22	527.21	1230.07	36.56
23	534.00	1230.27	41.96
24	550.31	1243.71	49.40
25	563.47	1252.47	58.16



ID NO. = 22  
DAMSITE = TARHOUCHT (Amont)

N	X(m)	EL(m)	H(m)
1	0.00	1170.06	24.09
2	16.23	1170.50	16.61
3	39.00	1150.00	4.03
4	46.00	1155.84	1.07
5	52.30	1155.79	1.02
6	55.74	1156.97	3.00
7	58.63	1154.70	0.73
8	63.43	1154.70	0.73
9	69.03	1157.25	3.28
10	75.73	1155.31	1.34
11	82.60	1154.75	0.78
12	83.00	1154.15	0.18
13	114.61	1153.97	0.00
14	132.67	1154.00	0.00
15	155.44	1165.03	11.66
16	170.26	1174.11	20.14



ID NO. = 24  
DAMSITE = TARHOUCHT (Aval)

N	X(m)	EL(m)	H(m)
1	0.00	1170.93	30.42
2	15.82	1169.90	20.40
3	25.97	1159.22	9.71
4	37.00	1152.00	2.57
5	41.57	1149.00	0.30
6	60.07	1150.34	0.83
7	62.77	1151.03	2.32
8	74.10	1150.03	1.12
9	82.29	1151.06	1.55
10	90.67	1149.51	0.00
11	100.72	1149.03	0.32
12	123.67	1155.53	6.02
13	124.60	1156.22	6.71
14	128.70	1156.62	7.11
15	134.97	1159.50	9.99
16	140.29	1161.04	12.33
17	153.60	1165.33	15.82
18	165.53	1170.00	20.55
19	172.62	1173.03	23.52
20	180.90	1175.72	26.21

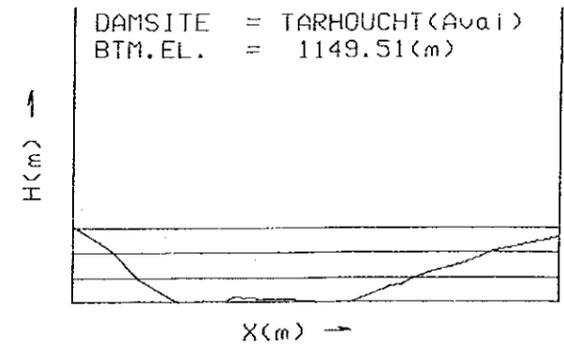
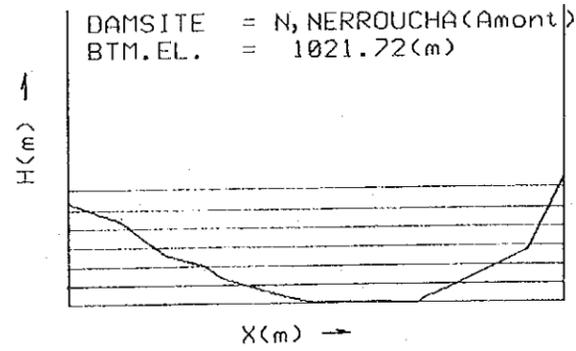


図10.3 各ダムサイトの横断図 (3/4)

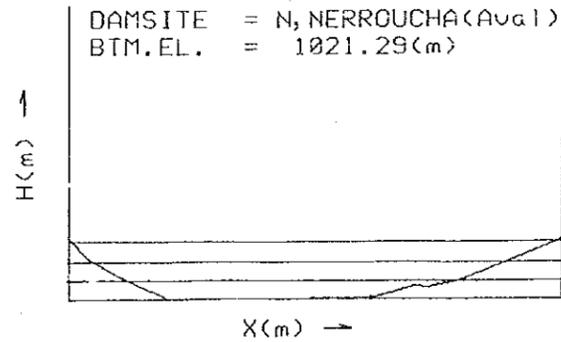
ID NO. = 25  
DAMSITE = N, NERROUCHA (Amont)

N	X(m)	EL(m)	H(m)
1	0.00	1074.29	53.07
2	25.29	1064.29	43.07
3	37.89	1055.04	33.32
4	47.24	1047.32	25.08
5	62.10	1041.60	19.08
6	75.83	1035.18	13.46
7	98.00	1028.82	7.18
8	111.27	1024.90	3.10
9	120.20	1022.45	0.73
10	128.39	1022.60	0.96
11	152.29	1022.50	0.70
12	171.61	1021.72	0.00
13	175.40	1022.40	0.60
14	177.60	1024.85	2.33
15	194.13	1030.09	9.17
16	214.32	1041.90	20.18
17	229.43	1048.60	26.88
18	240.55	1085.60	64.14



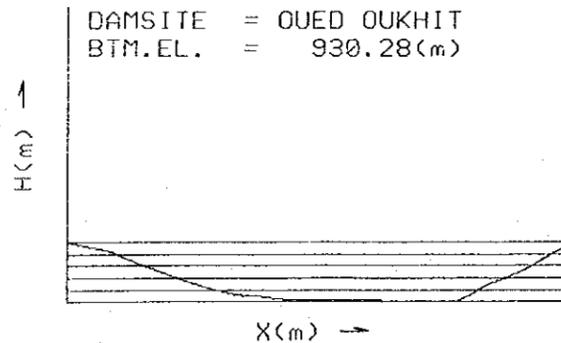
ID NO. = 27  
DAMSITE = N, NERROUCHA (Aval)

N	X(m)	EL(m)	H(m)
1	0.00	1052.53	31.24
2	9.70	1042.74	21.45
3	25.60	1032.99	11.70
4	40.51	1025.50	4.21
5	46.03	1023.06	1.77
6	47.38	1021.29	0.00
7	71.20	1021.94	0.65
8	102.24	1021.01	0.52
9	112.27	1021.74	0.45
10	126.36	1022.35	1.00
11	146.37	1022.03	0.74
12	154.47	1023.69	2.40
13	170.46	1028.35	7.06
14	178.46	1028.15	6.80
15	194.23	1032.21	10.92
16	219.05	1042.07	20.70
17	242.30	1052.33	31.04



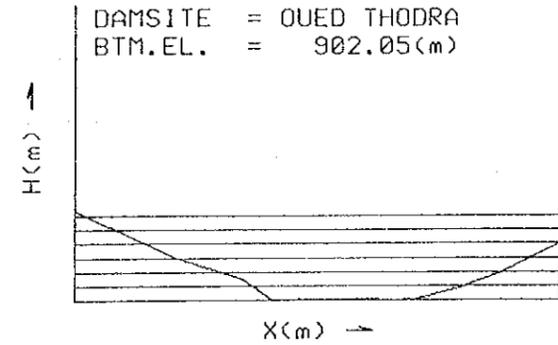
ID NO. = 28  
DAMSITE = OUED OUKHIT

N	X(m)	EL(m)	H(m)
1	0.00	980.38	50.10
2	13.77	977.03	46.75
3	25.64	974.30	44.10
4	34.07	971.77	41.49
5	43.65	967.11	36.83
6	63.17	959.26	29.48
7	72.00	955.46	25.18
8	90.93	949.33	19.05
9	112.58	942.02	11.74
10	133.92	936.91	6.63
11	143.50	935.01	4.73
12	152.10	935.17	4.89
13	167.77	932.69	2.41
14	177.00	932.15	1.87
15	192.71	931.66	1.38
16	208.70	931.92	1.64
17	218.36	931.97	1.69
18	234.69	931.87	1.59
19	245.14	931.92	1.64
20	260.56	931.19	0.91
21	273.95	930.20	0.00
22	281.20	930.35	0.07
23	286.17	930.70	0.51
24	292.00	930.90	0.70
25	312.07	930.89	0.61
26	324.90	930.60	0.32
27	337.04	944.77	14.49
28	351.93	950.47	20.19
29	367.41	957.51	27.23
30	381.41	965.60	35.38
31	400.54	976.76	46.48



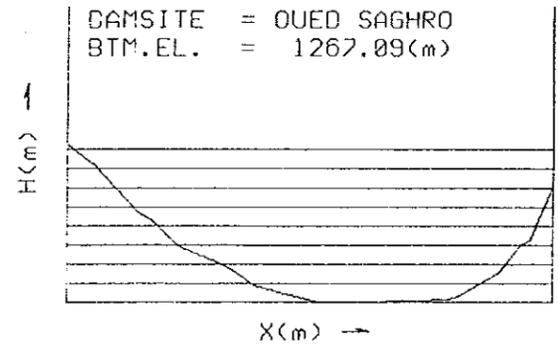
ID NO. = 29  
DAMSITE = OUED THODRA

N	X(m)	EL(m)	H(m)
1	0.00	985.41	63.30
2	71.27	931.70	29.71
3	110.14	917.34	15.29
4	130.26	902.05	0.00
5	171.23	903.04	0.99
6	203.55	903.48	1.43
7	219.70	902.07	0.02
8	230.30	903.62	1.57
9	209.13	911.57	9.52
10	290.22	920.06	18.01
11	315.39	930.10	28.13
12	339.60	942.05	40.00



ID NO. = 30  
DAMSITE = OUED SAGHRO

N	X(m)	EL(m)	H(m)
1	0.00	1340.64	81.55
2	14.10	1338.92	71.83
3	35.03	1313.92	46.83
4	42.97	1309.60	42.57
5	49.50	1303.20	36.11
6	56.71	1296.40	29.31
7	73.83	1288.62	21.59
8	83.84	1283.97	16.88
9	95.40	1270.21	9.12
10	110.20	1271.40	4.31
11	110.90	1269.47	2.30
12	127.42	1267.19	0.10
13	133.24	1267.09	0.00
14	152.83	1267.12	0.03
15	156.00	1267.72	0.63
16	170.90	1266.05	0.96
17	178.70	1268.27	1.10
18	197.04	1268.82	1.73
19	202.01	1270.13	3.04
20	222.92	1282.67	15.50
21	233.50	1286.20	29.17
22	239.15	1299.71	32.62
23	250.94	1320.39	61.30



ID NO. = 31  
DAMSITE = IMIDER

N	X(m)	EL(m)	H(m)
1	0.00	1571.69	30.59
2	10.00	1548.53	7.43
3	50.30	1540.64	5.54
4	60.15	1544.48	3.30
5	69.20	1543.33	2.23
6	105.22	1543.32	2.22
7	107.24	1543.55	2.45
8	117.33	1542.50	1.40
9	129.32	1542.07	1.27
10	131.53	1542.02	0.92
11	135.40	1542.47	1.37
12	142.11	1541.31	0.21
13	152.92	1541.10	0.00
14	161.82	1543.60	2.50
15	163.06	1543.39	2.29
16	169.10	1546.00	4.90
17	171.27	1540.13	5.03
18	172.94	1545.23	4.13
19	182.30	1547.15	6.05
20	201.52	1551.91	10.81
21	222.77	1557.71	16.61
22	247.14	1564.12	23.02

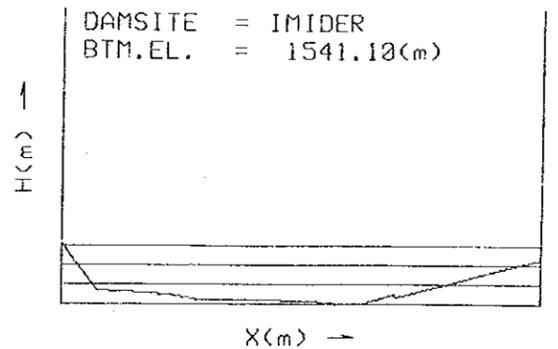


図10.3 各ダムサイトの横断面図 (4/4)

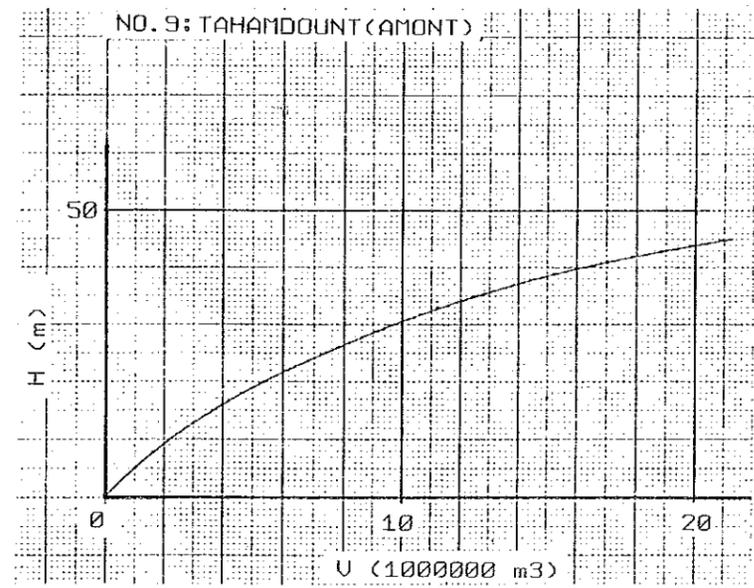
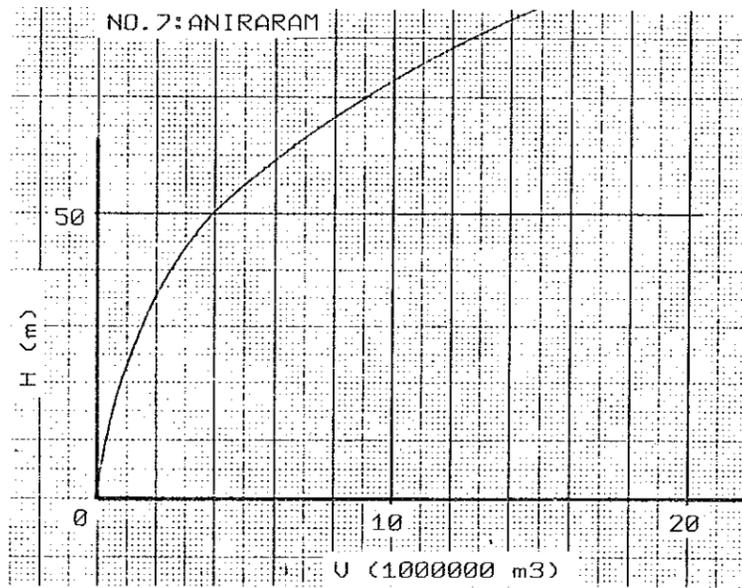
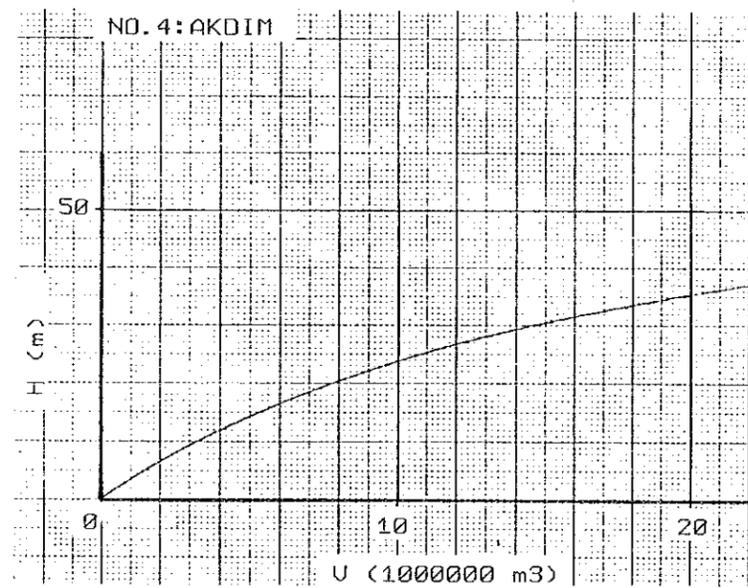
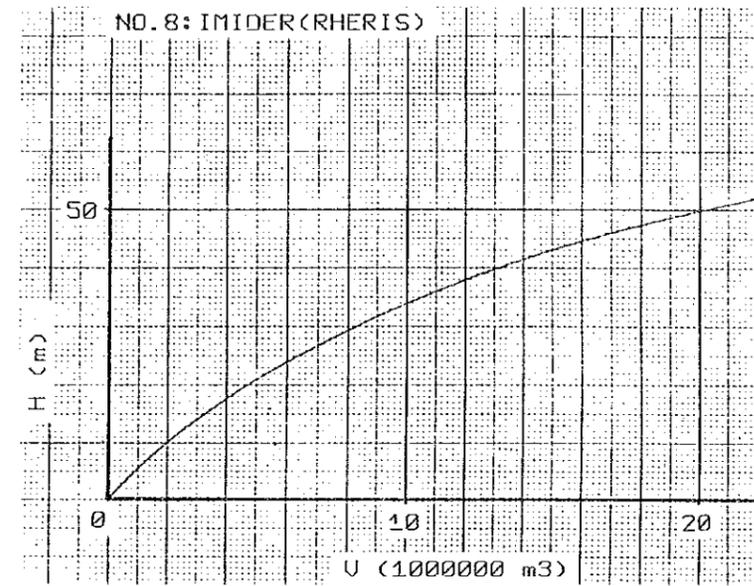
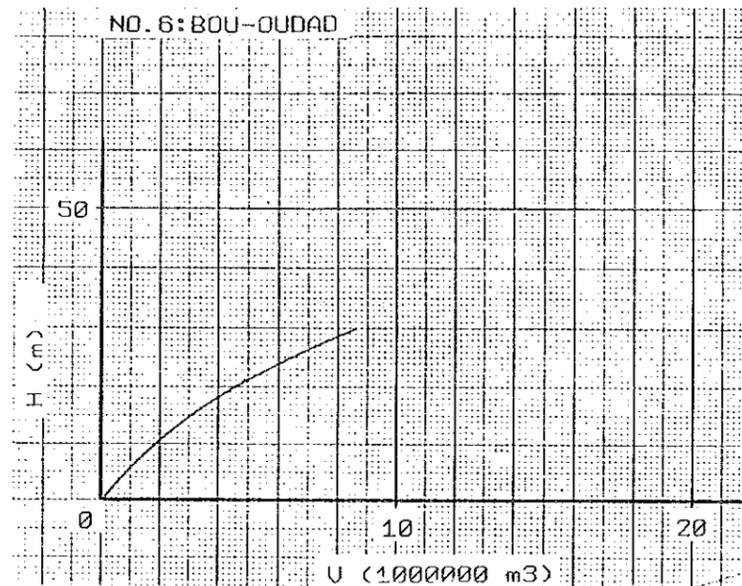
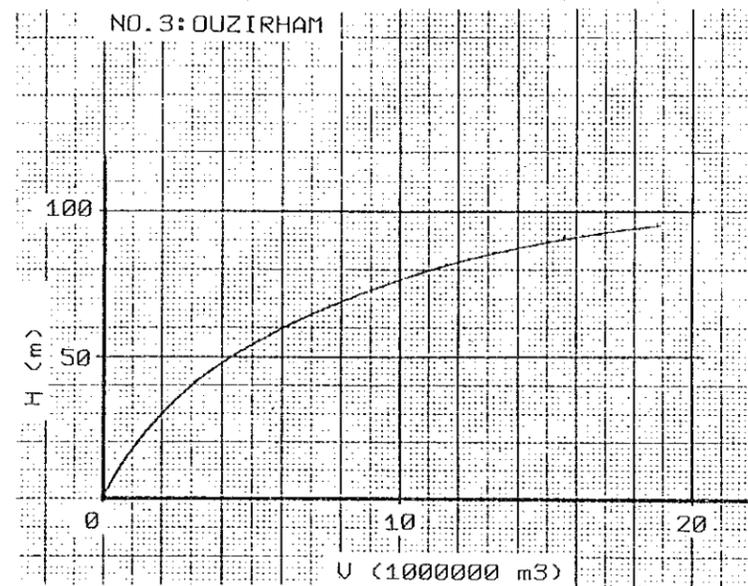


図10.4 各ダムの貯水池容量曲線 (1/4)

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

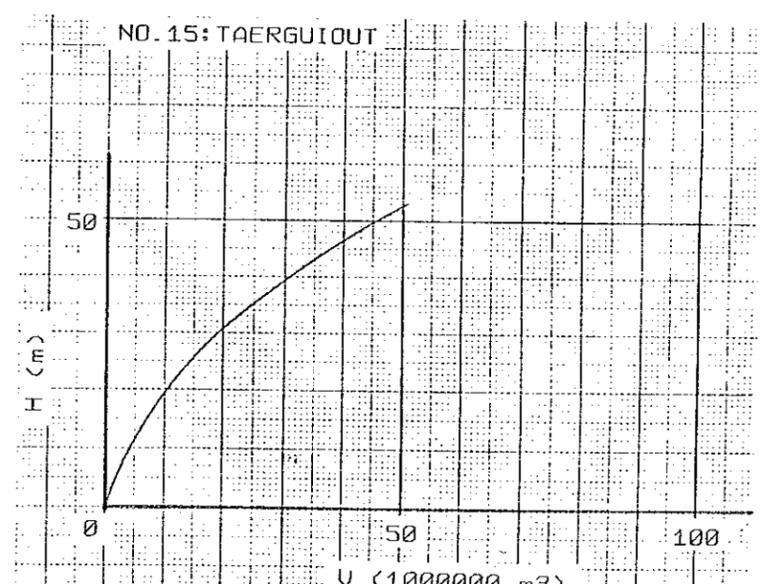
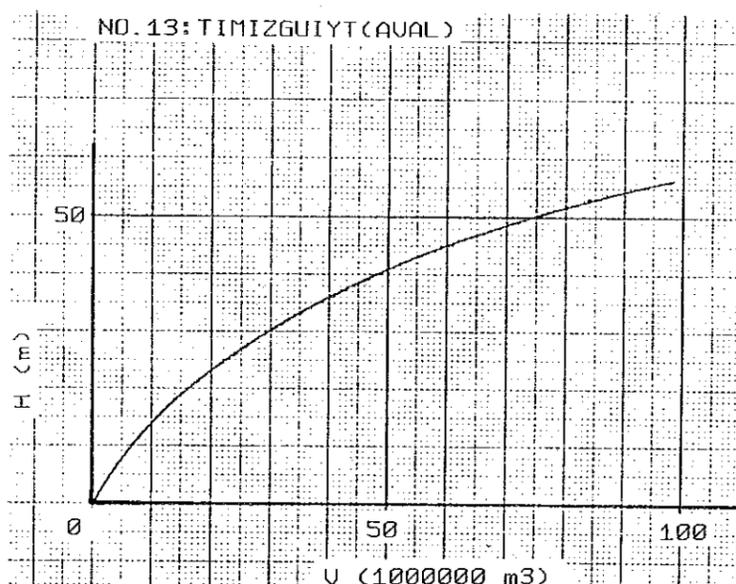
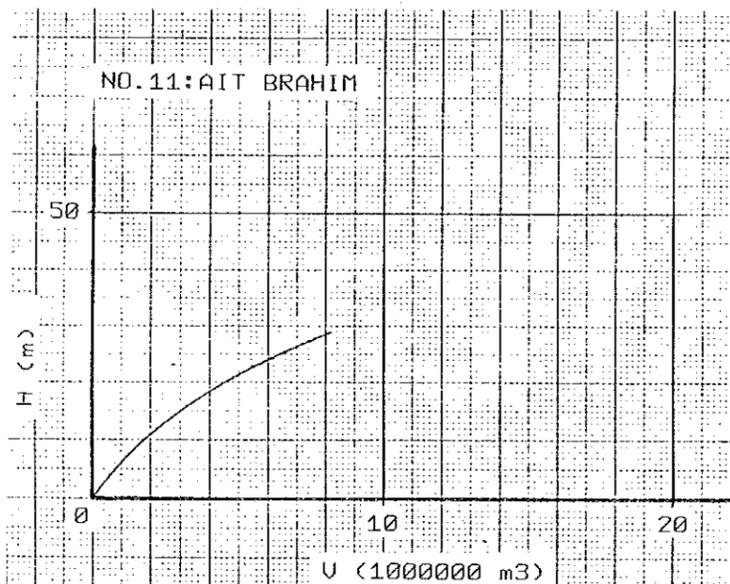
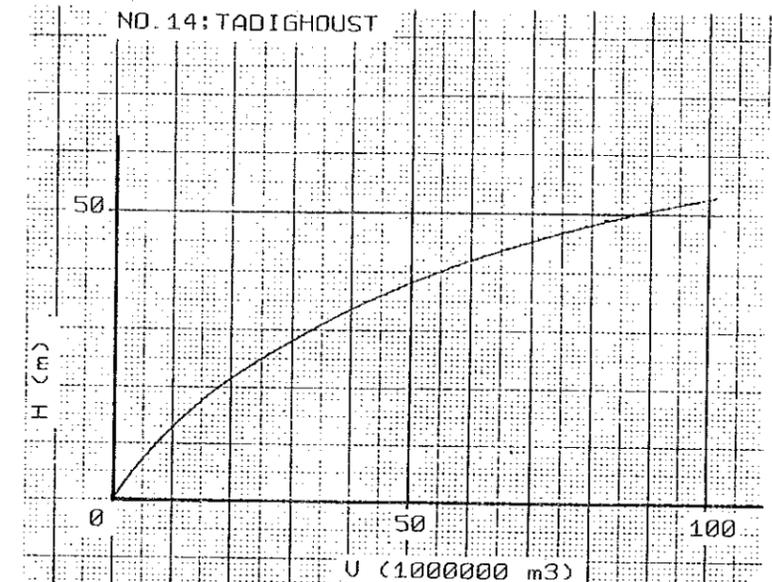
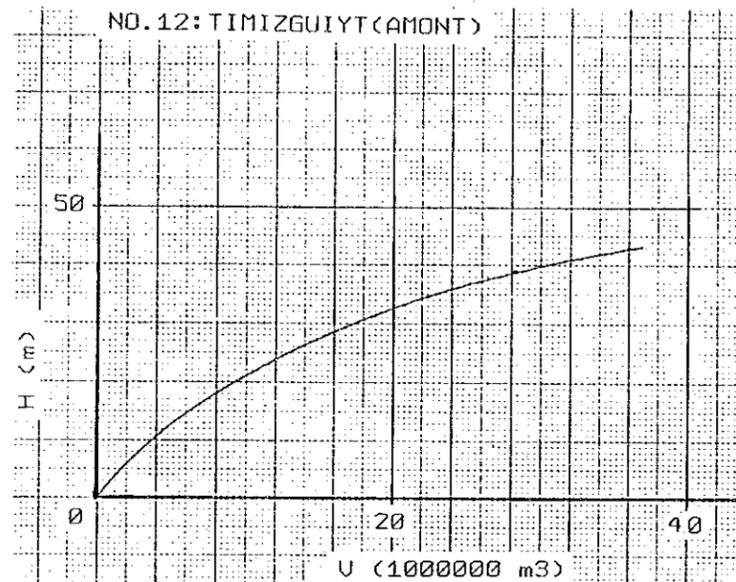
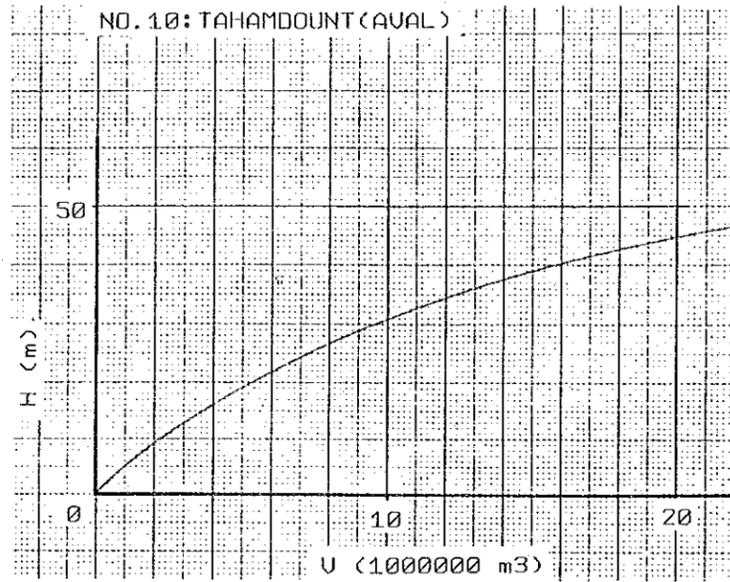


図10.4 各ダムの貯水池容量曲線 (2/4)

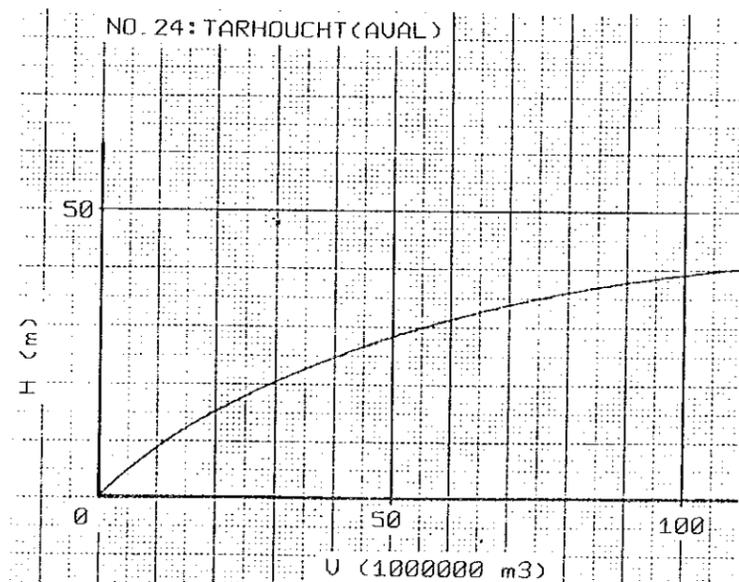
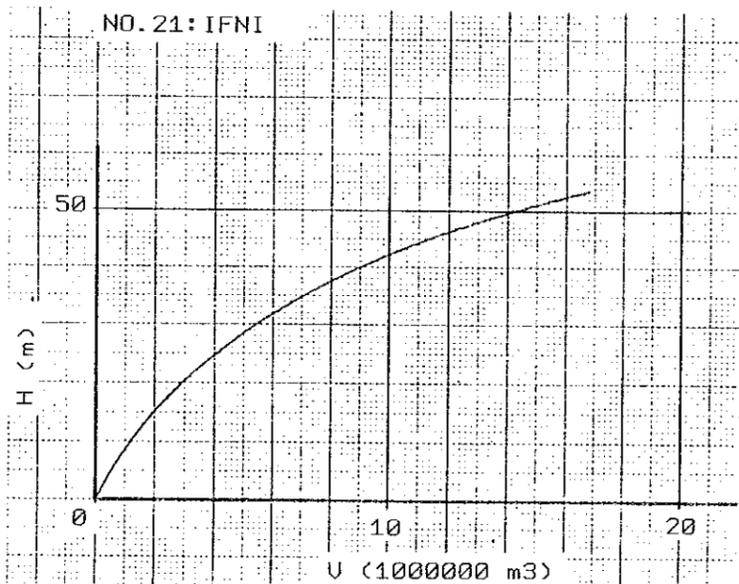
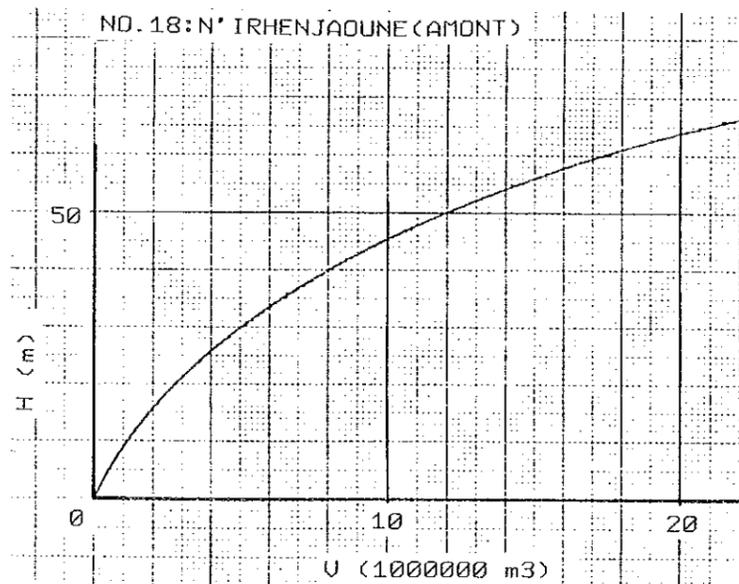
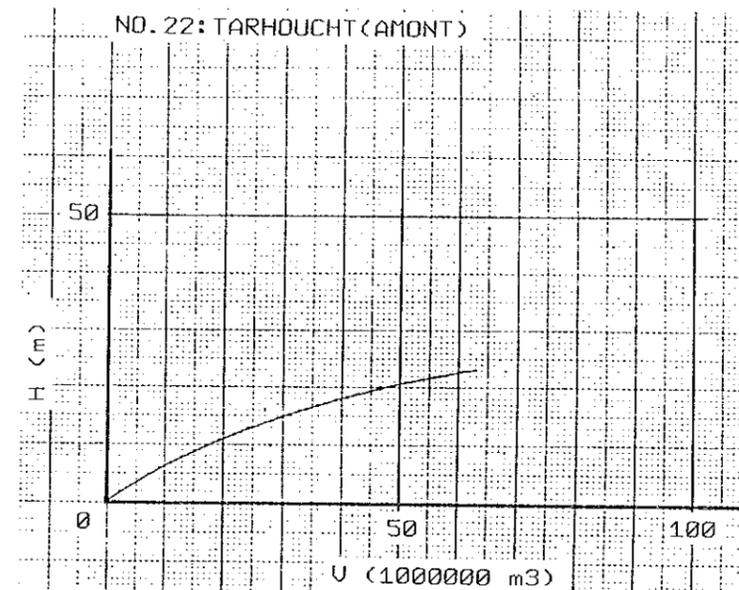
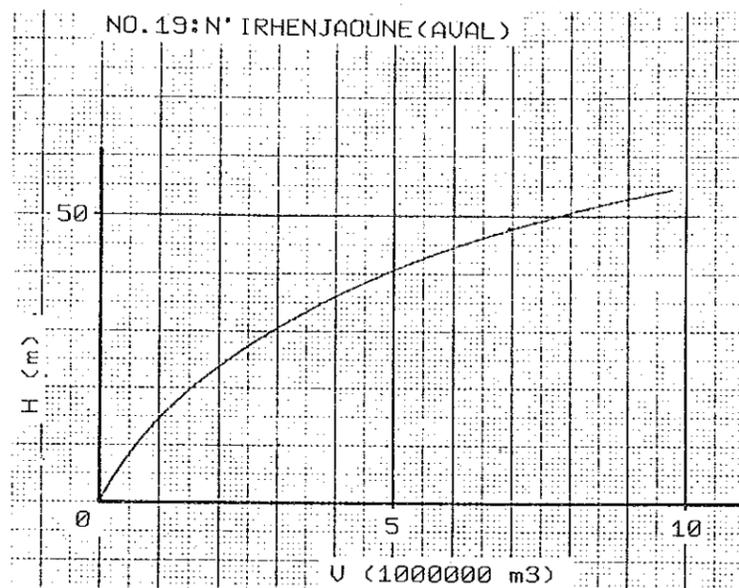
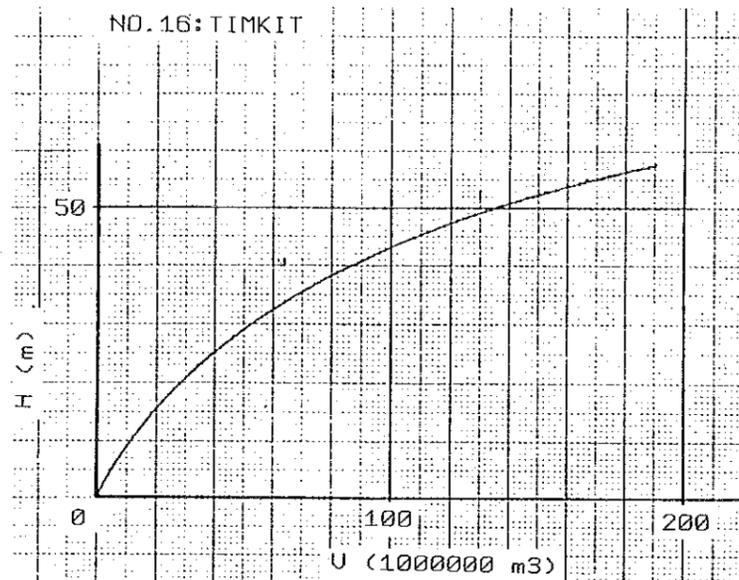


図10.4 各ダムの貯水池容量曲線 (3/4)

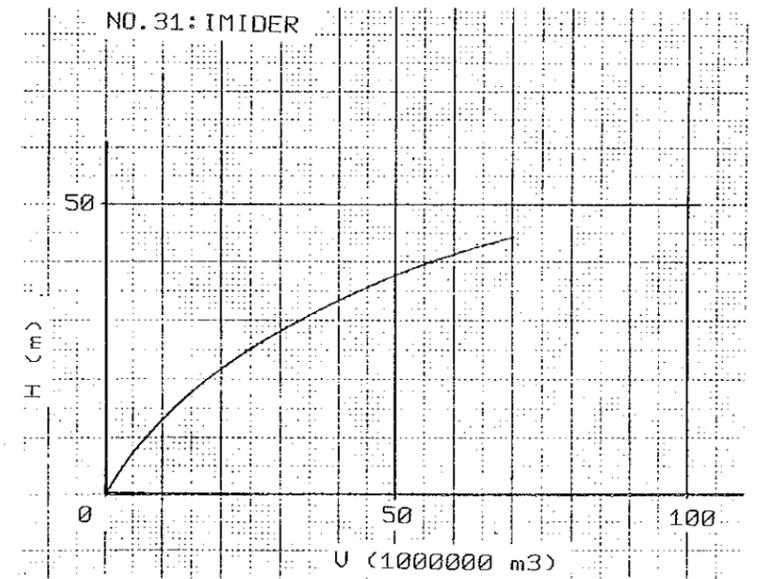
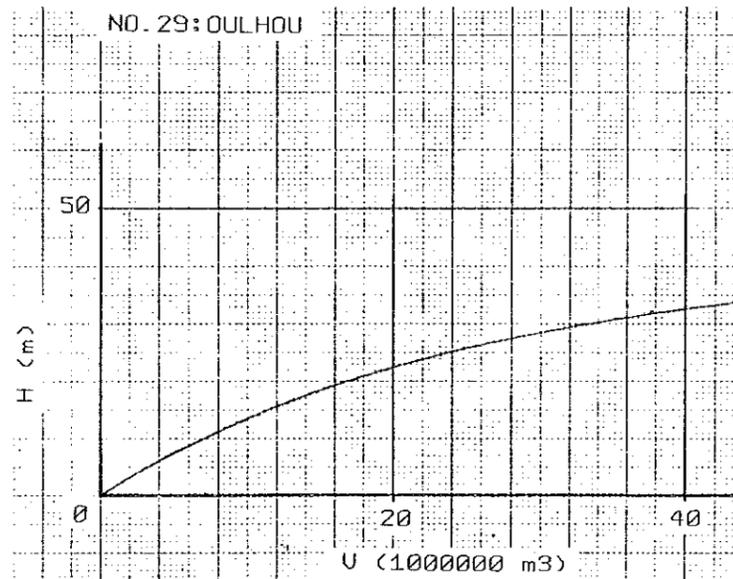
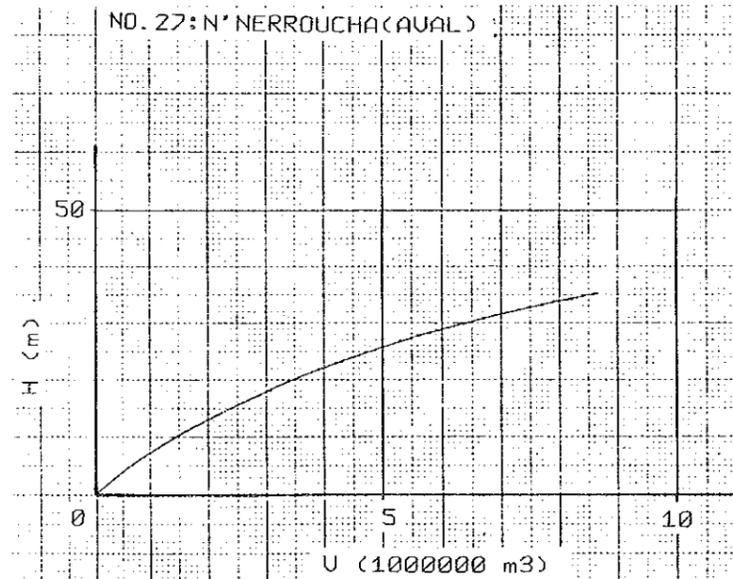
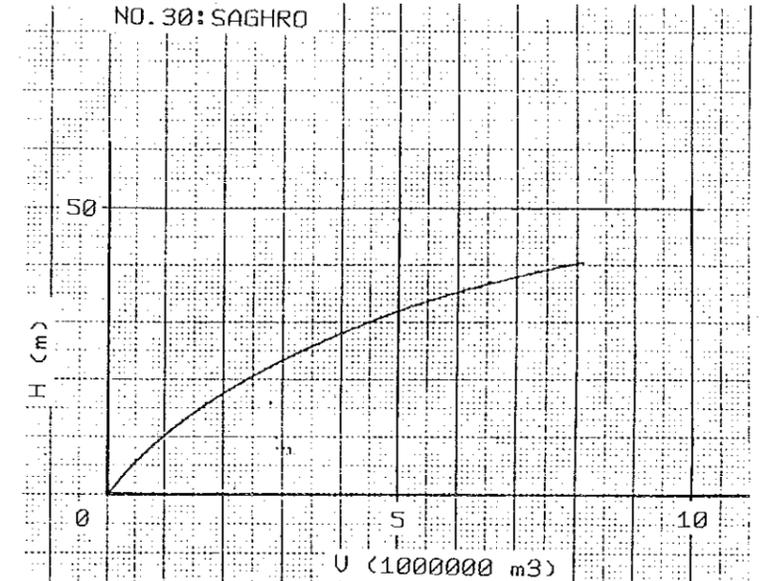
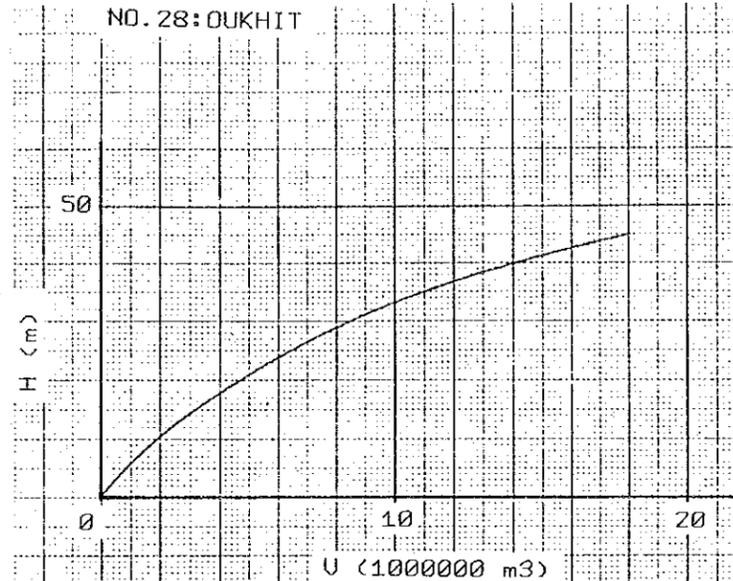
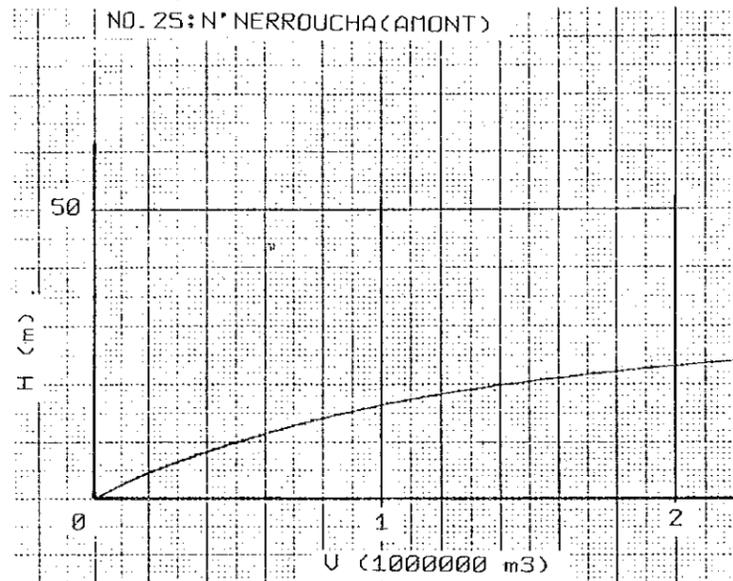


図10.4 各ダムの貯水池容量曲線 (4/4)



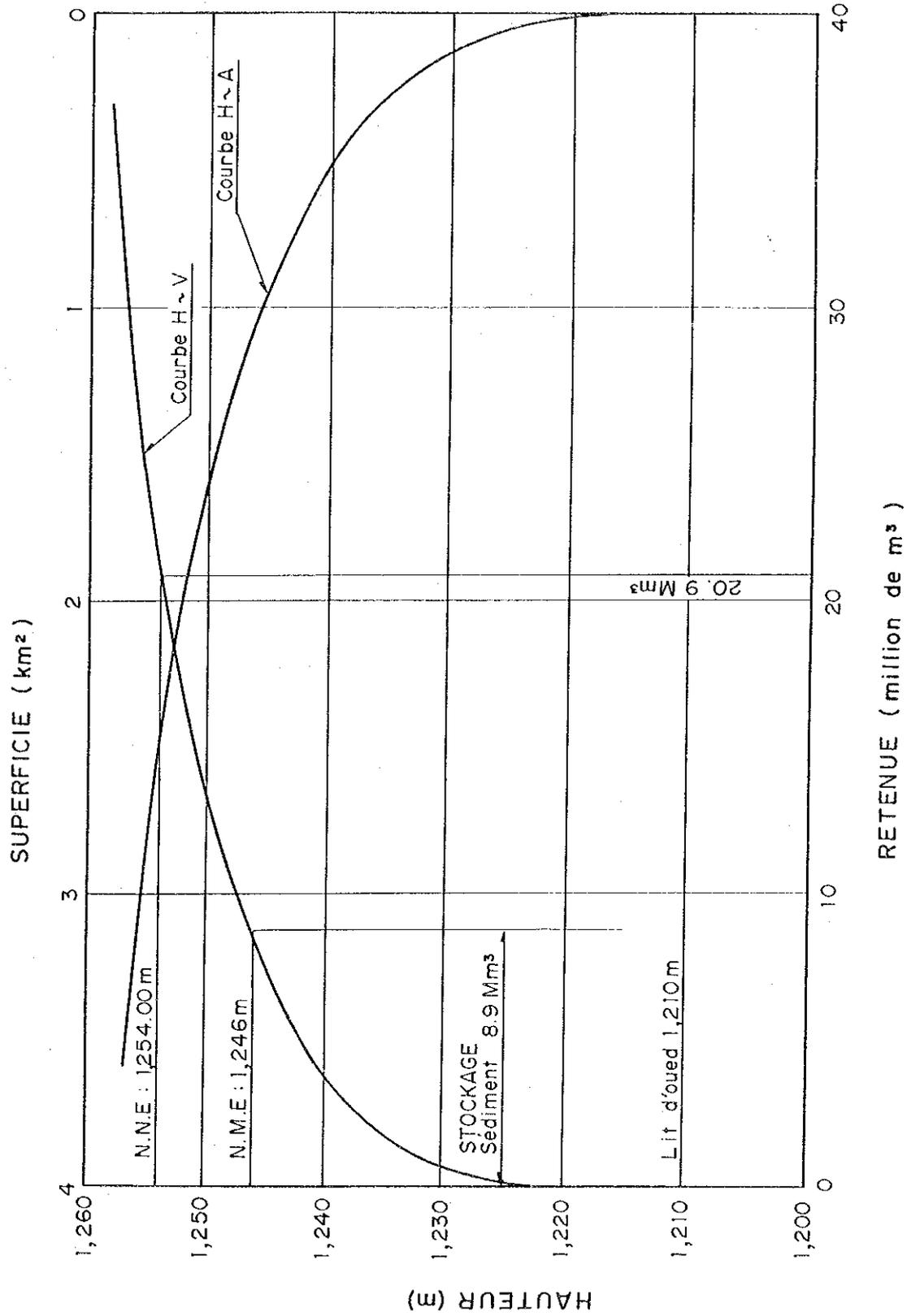


図 11.1  
Timkitダムの貯水池容量曲線

ADMINISTRATION DE L'HYDRAULIQUE  
 ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES  
 DANS LE BASSIN VERSANT DU RHERIS  
 AGENCE JAPONAISE DE COOPERATION INTERNATIONALE



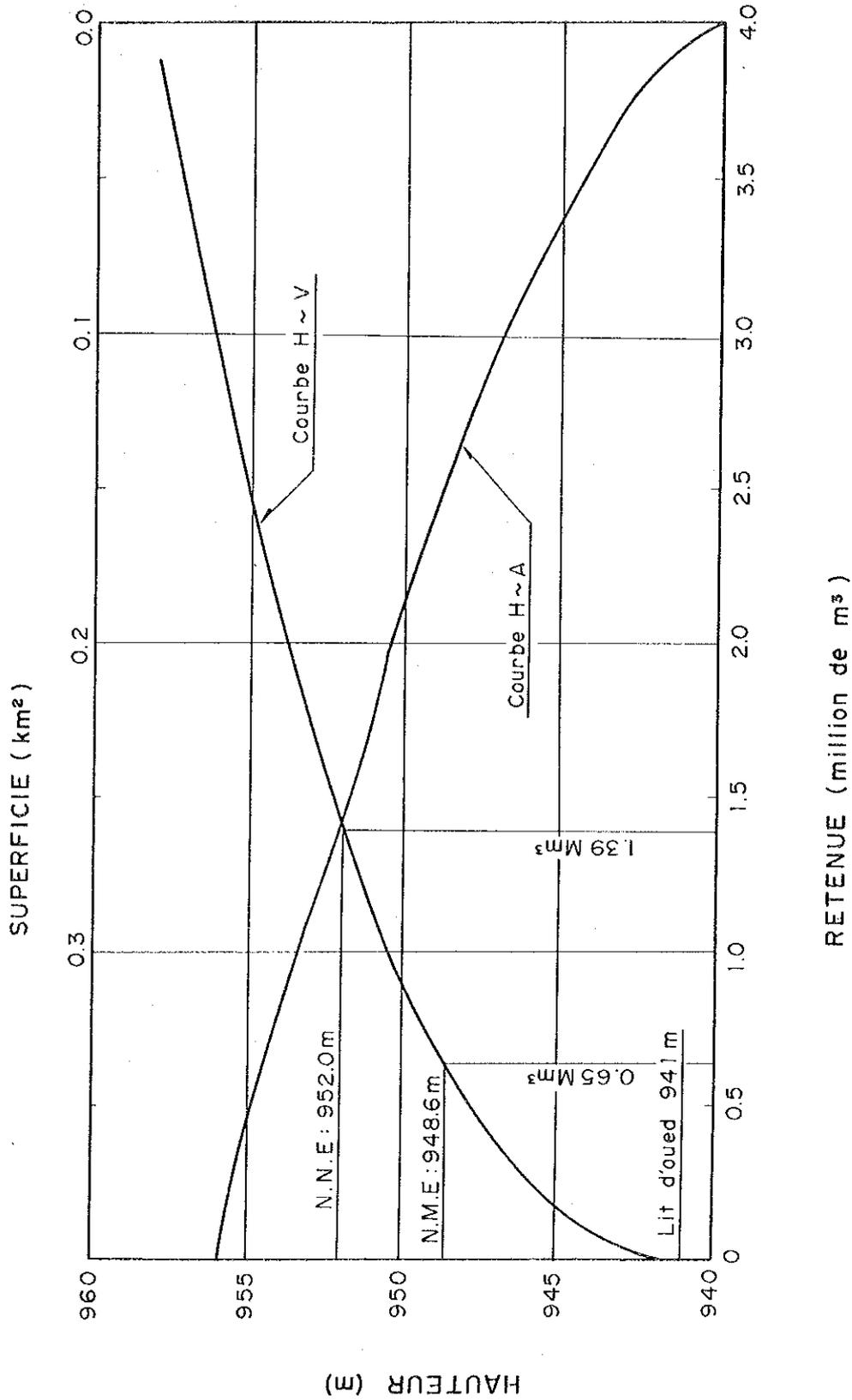


図 11.2

Okhitダムの貯水池容量曲線

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE



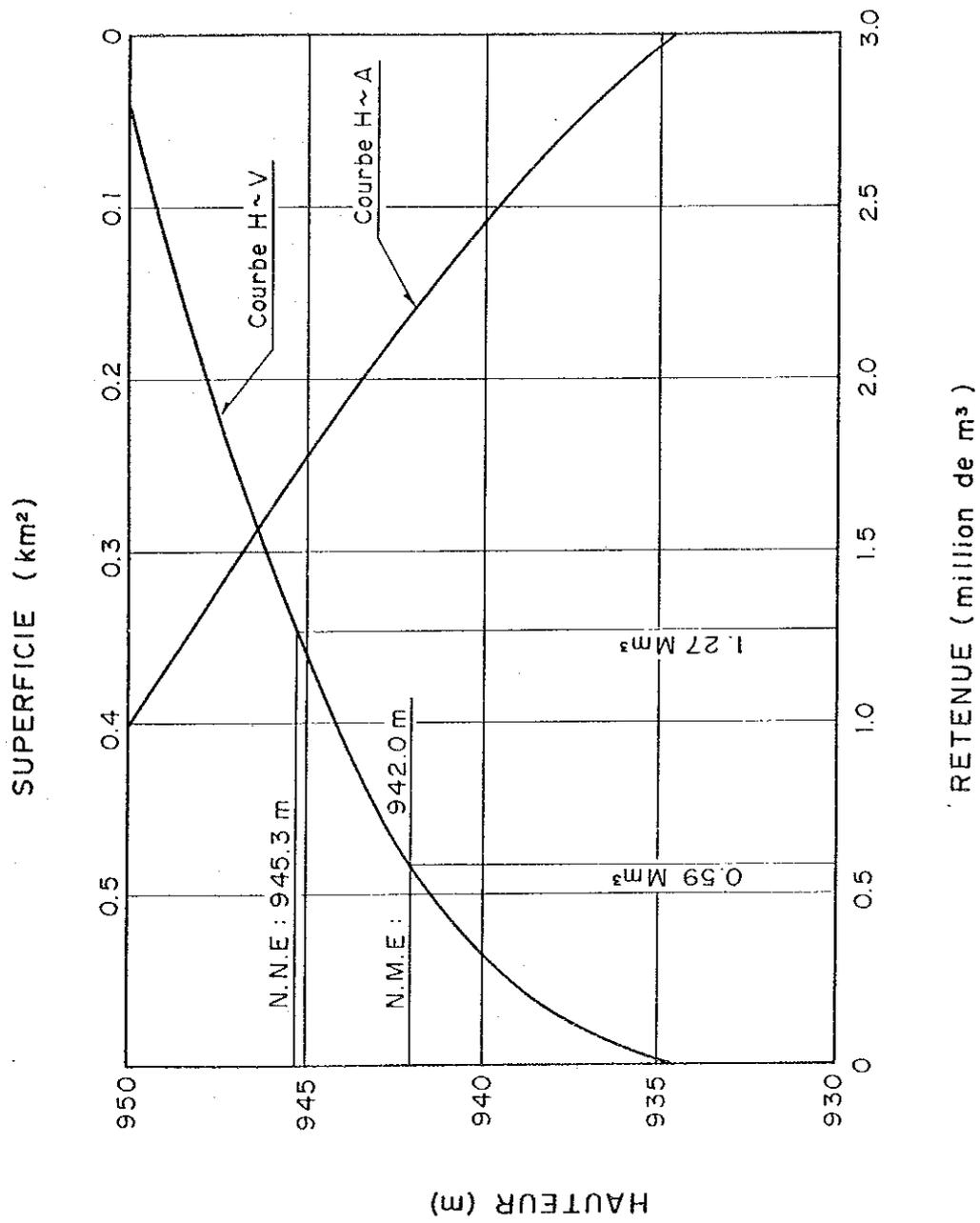


図11.3  
Oulhouダムの貯水池容量曲線

ADMINISTRATION DE L'HYDRAULIQUE  
 ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES  
 DANS LE BASSIN VERSANT DU RHERIS  
 AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

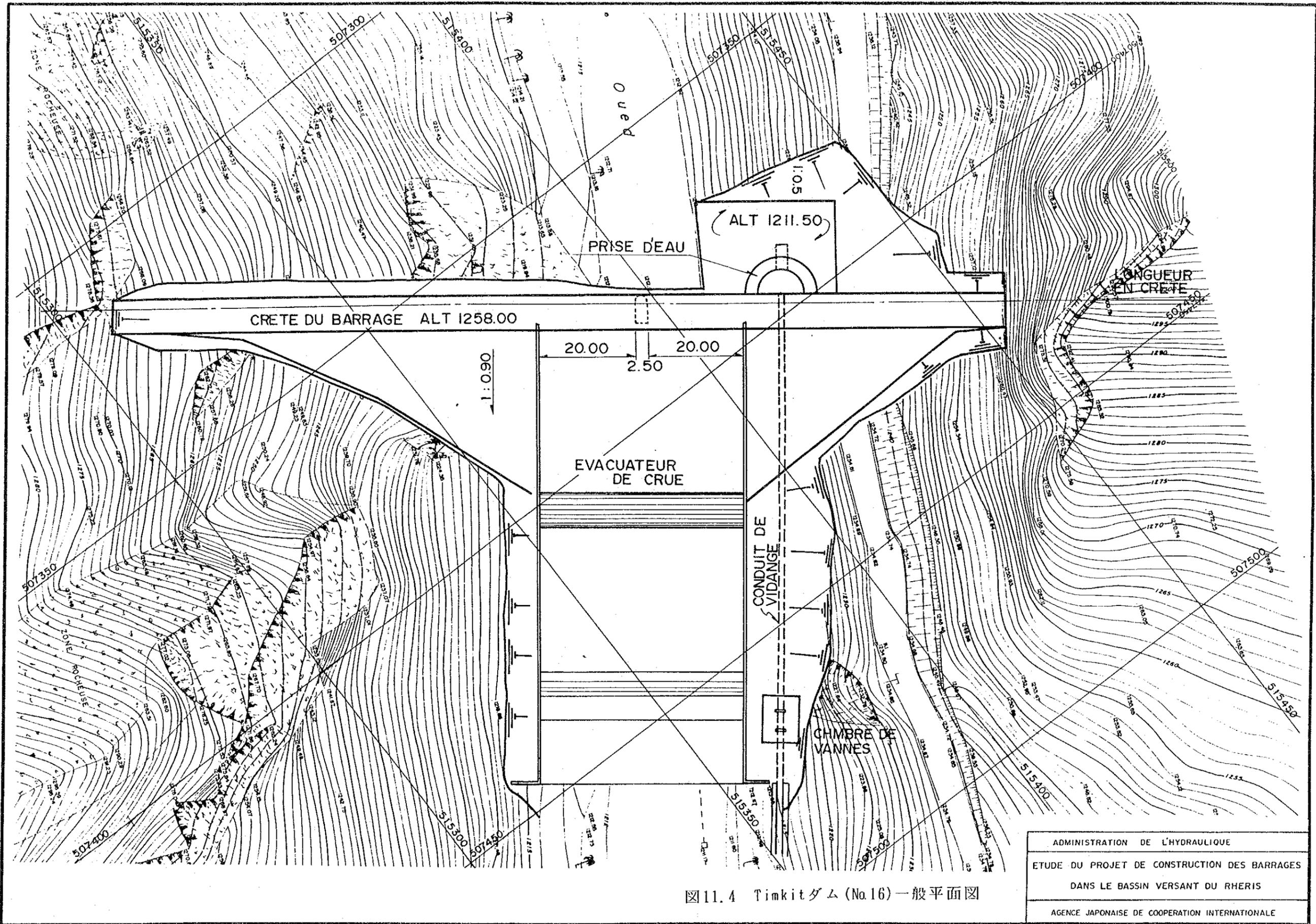


図11.4 Timkitダム (No.16)一般平面図

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

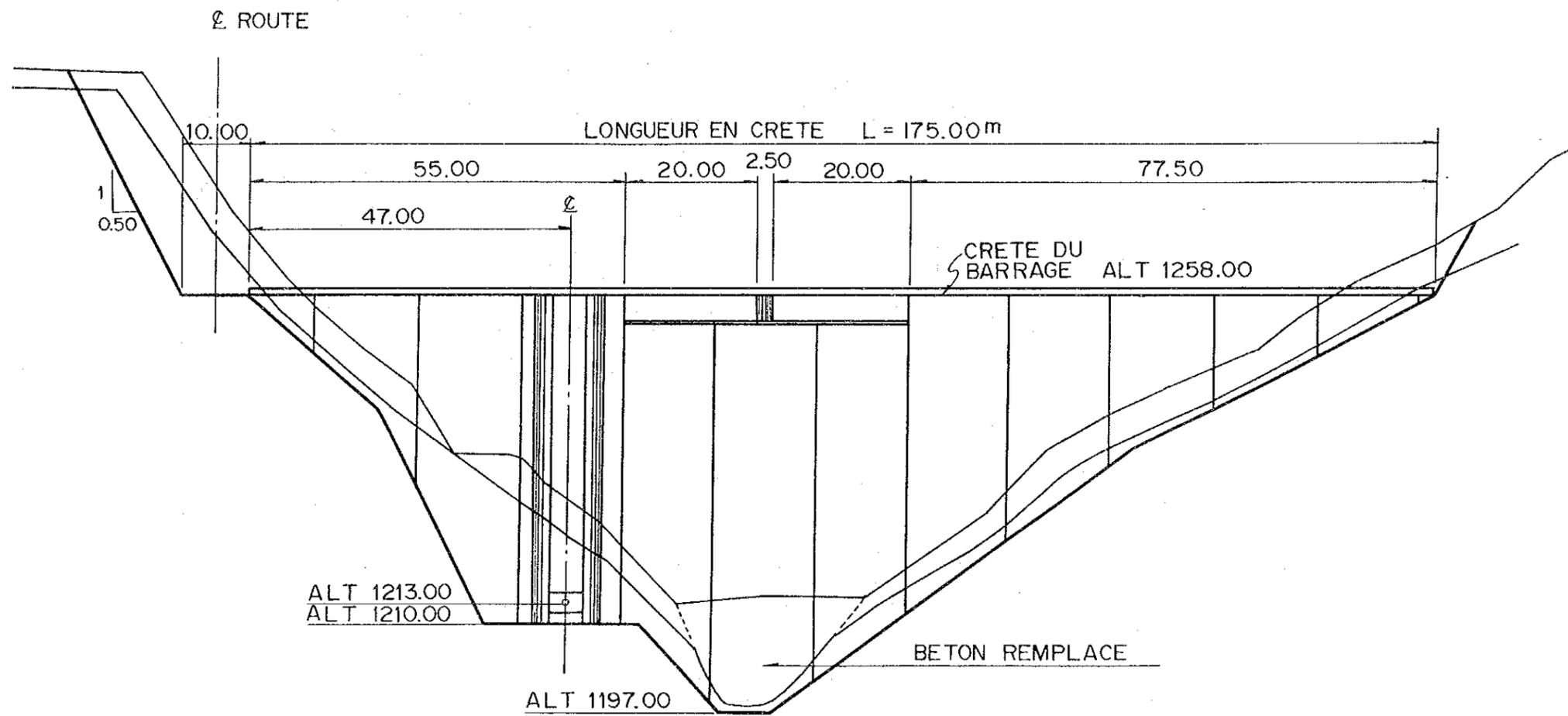


図11.5 Timkitダム (No.16) 立面図 (上流面)

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

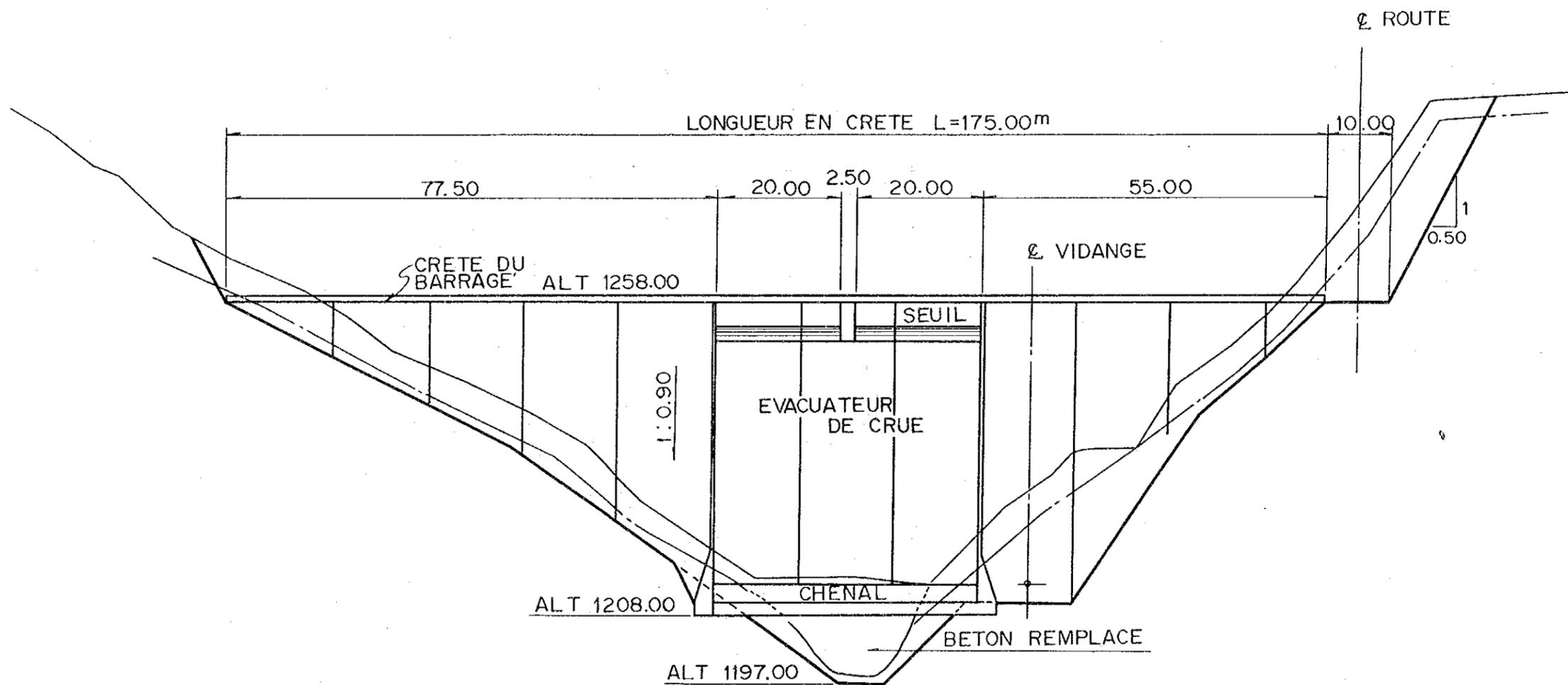


図11.6 Timkitダム (No.16) 立面図 (下流面)

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

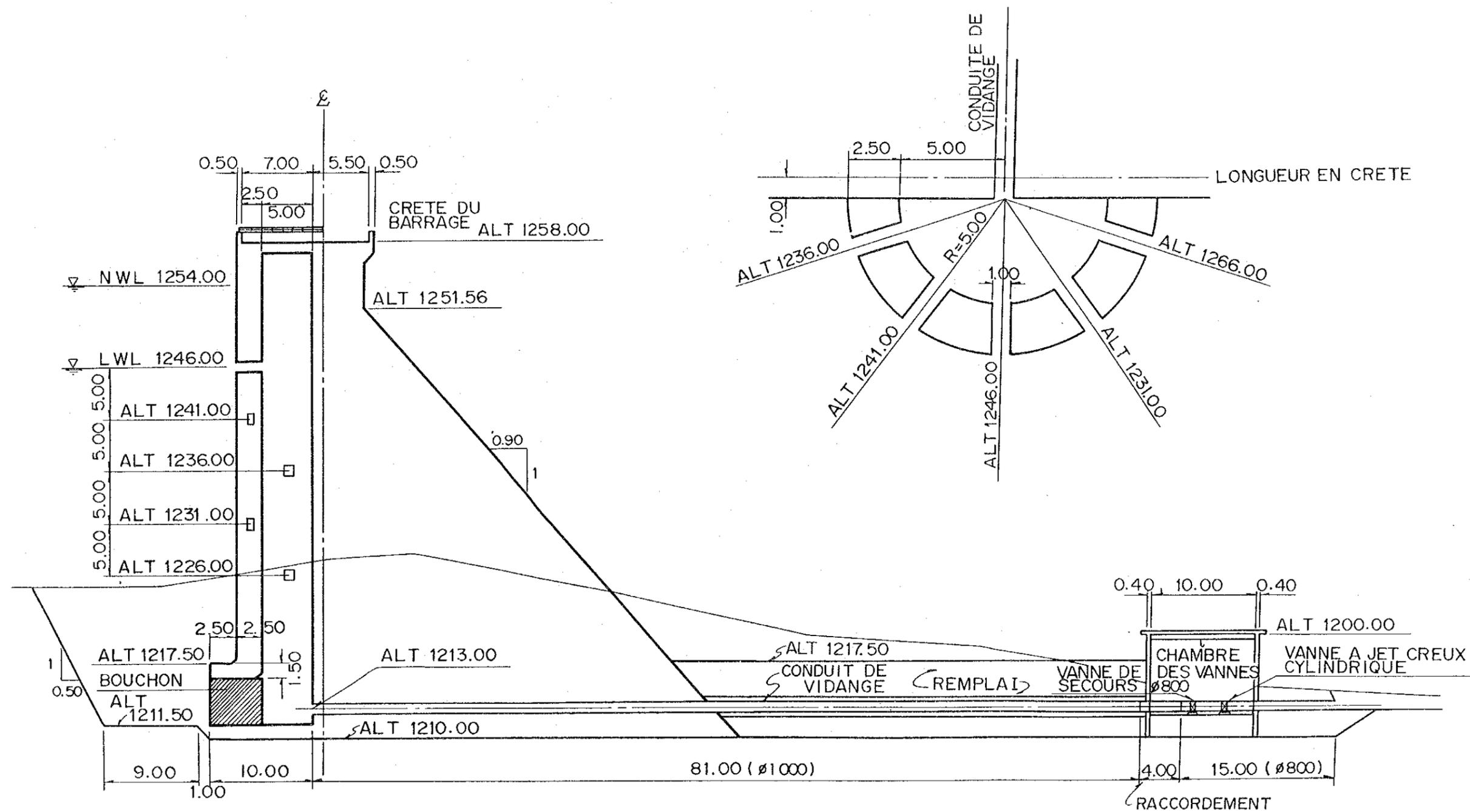


図11.7 Timkitダム (No.16) 一般構造図 (非越流部)

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

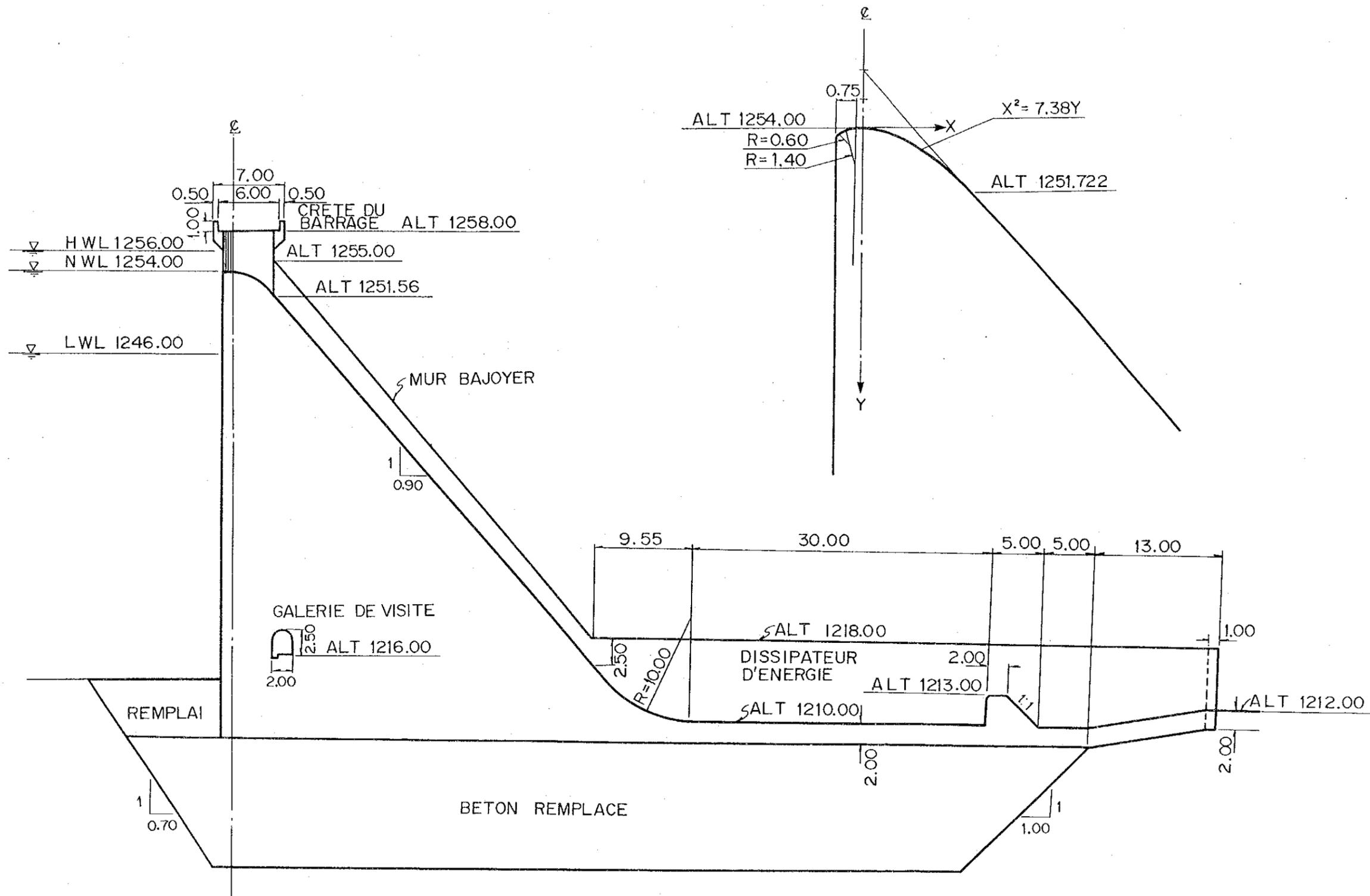


図11.8 Timkitダム (No.16)一般構造図 (越流部)

ADMINISTRATION DE L'HYDRAULIQUE
ETUDE DU PROJET DE CONSTRUCTION DES BARRAGES DANS LE BASSIN VERSANT DU RHERIS
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

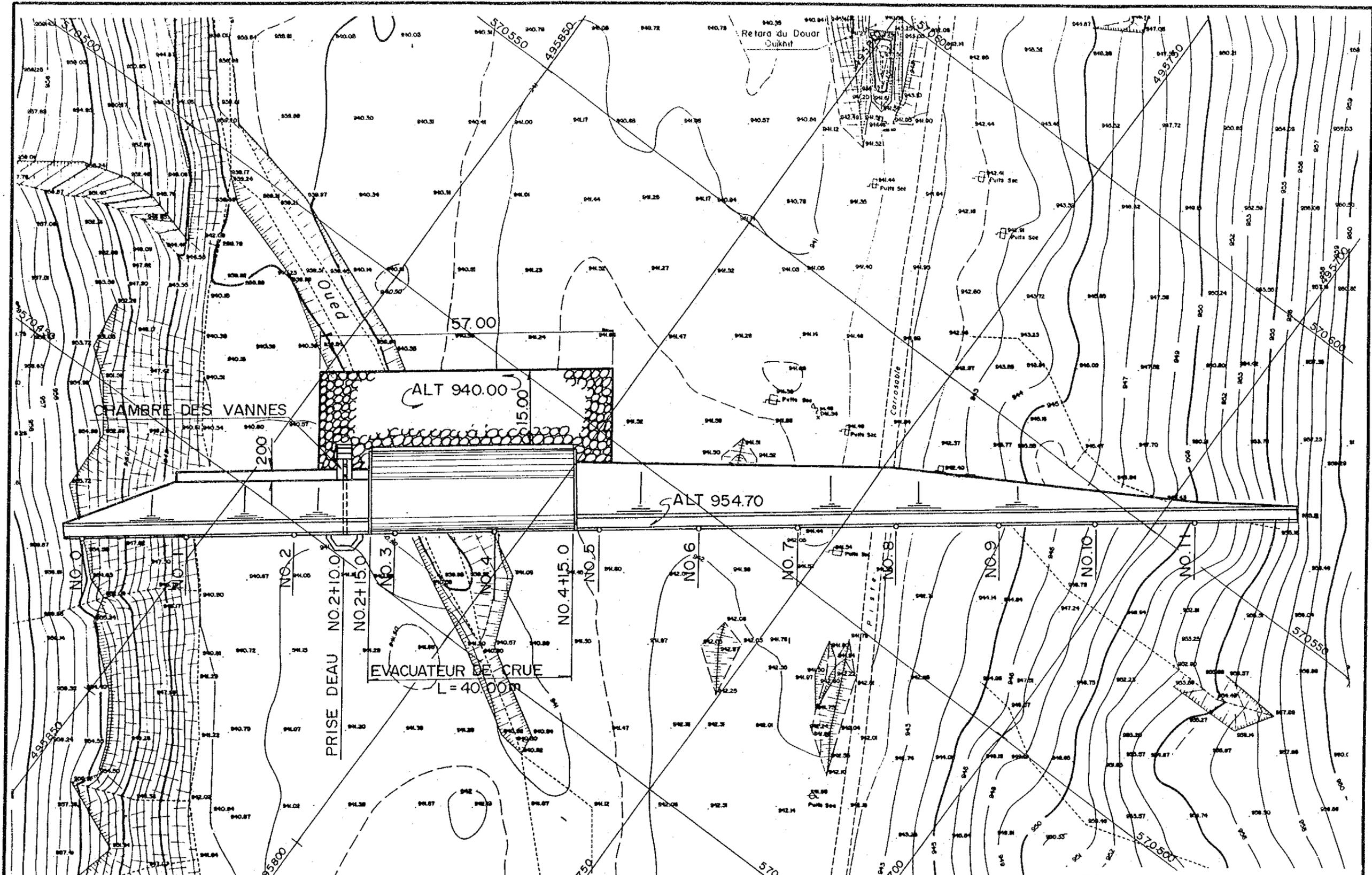


図11.9 Oukhitダム (No.28) 一般平面図

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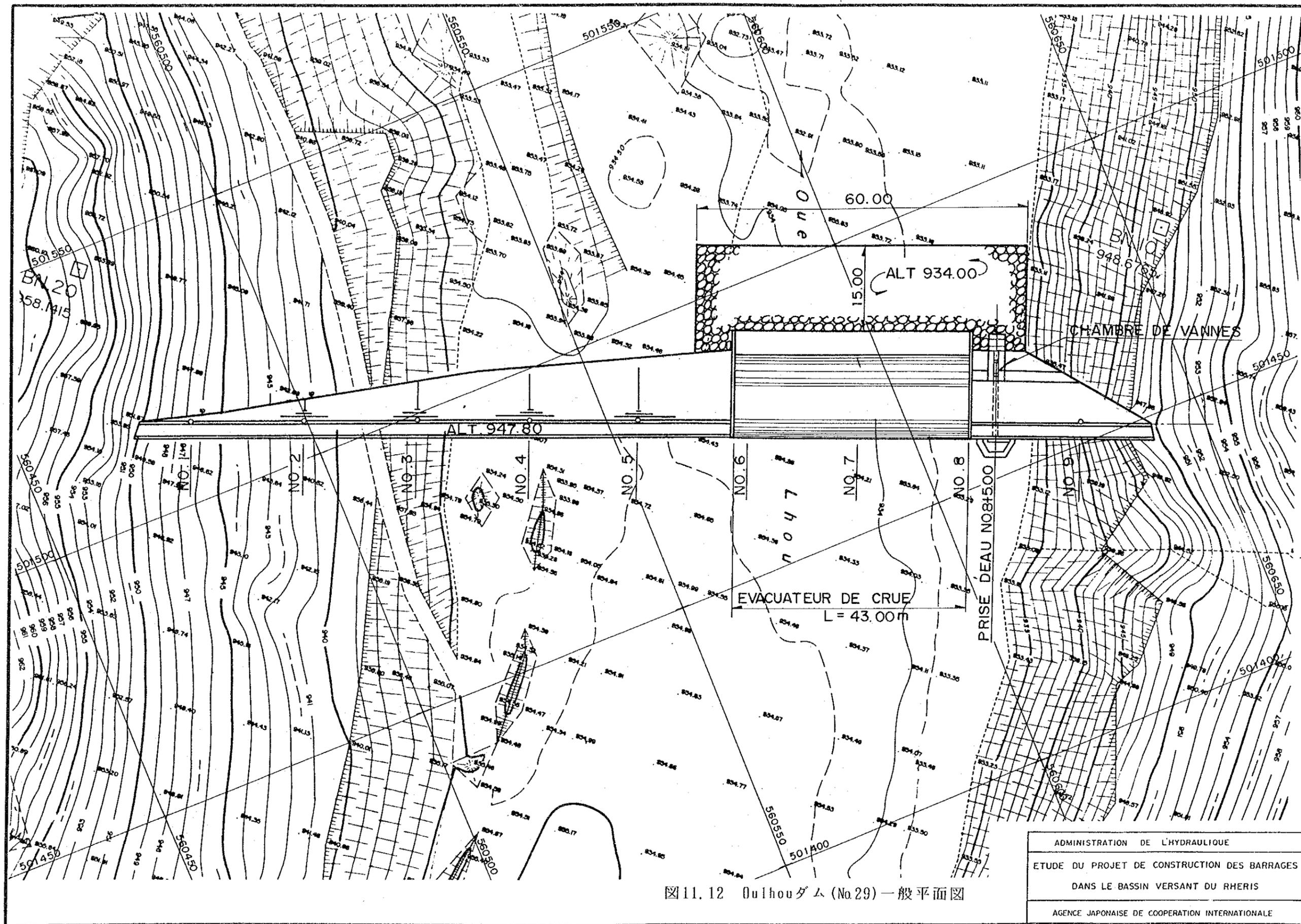
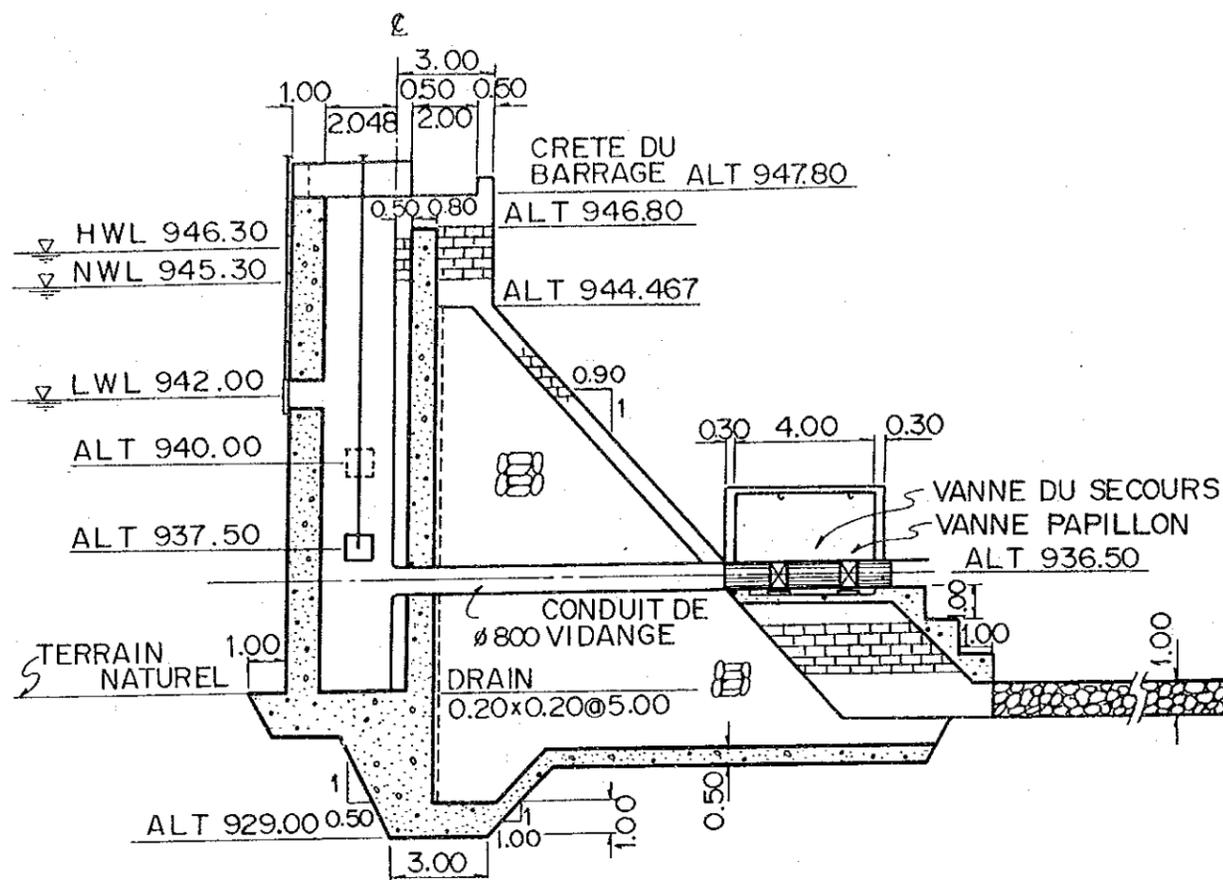
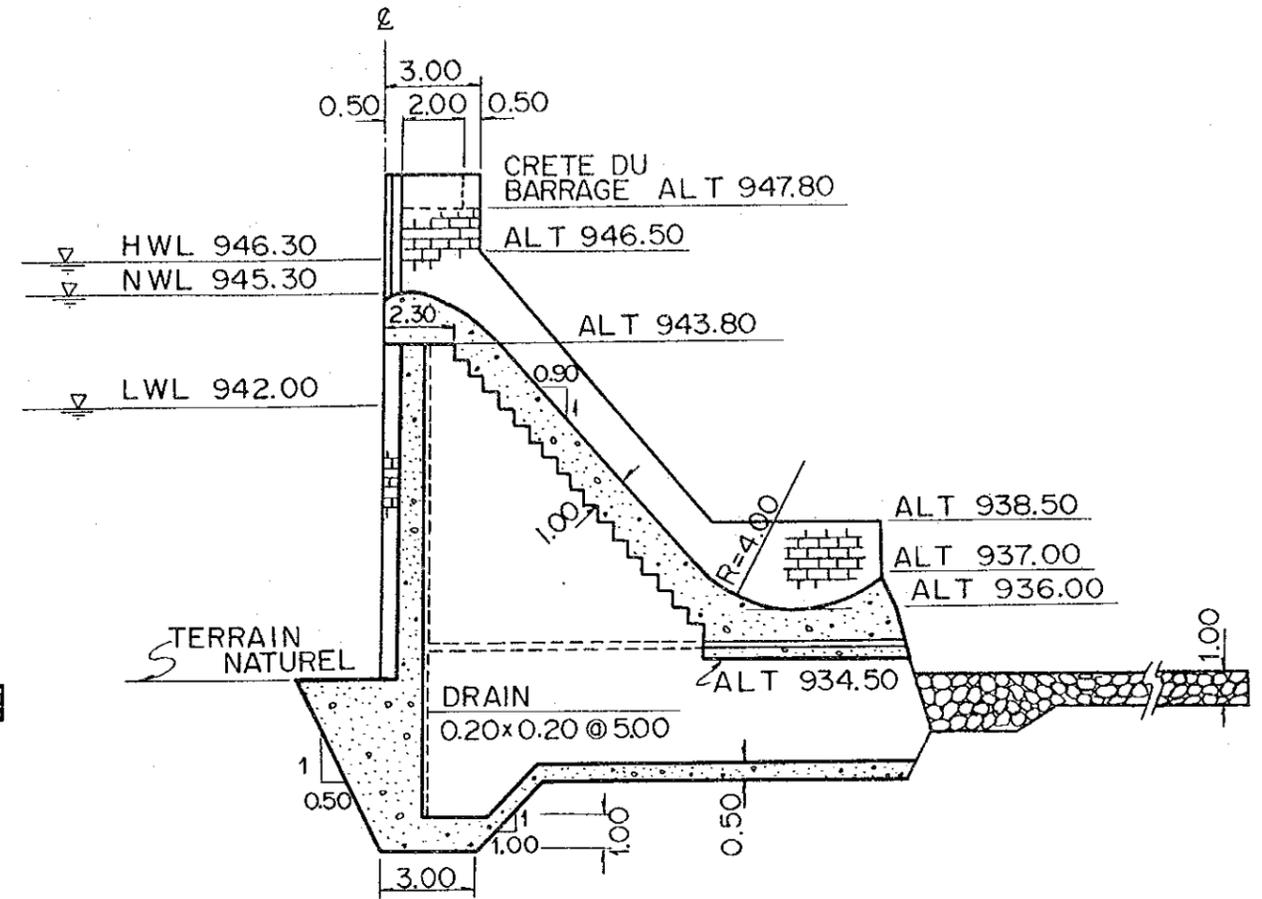


図11.12 Ouhouダム (No.29) 一般平面図

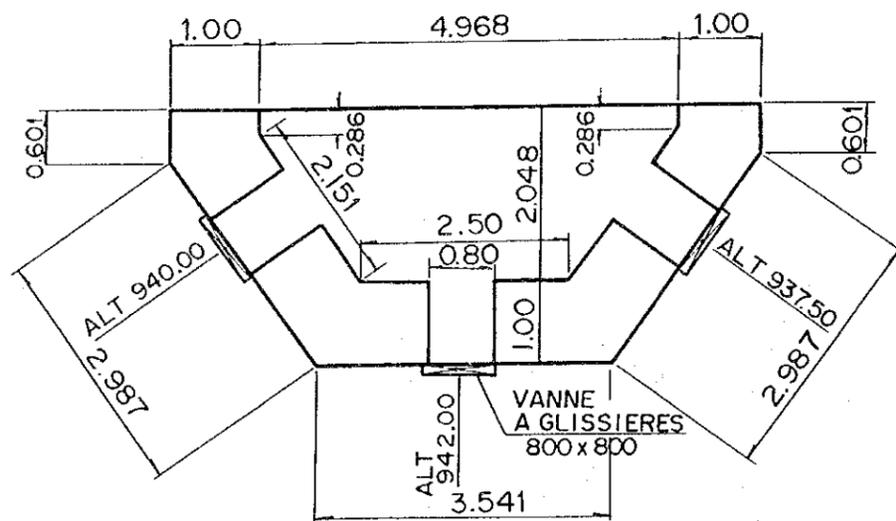




VIDANGE OUVRAGE DE PRISE



COUPE TYPE



PLAN DE PRISE D'EAU

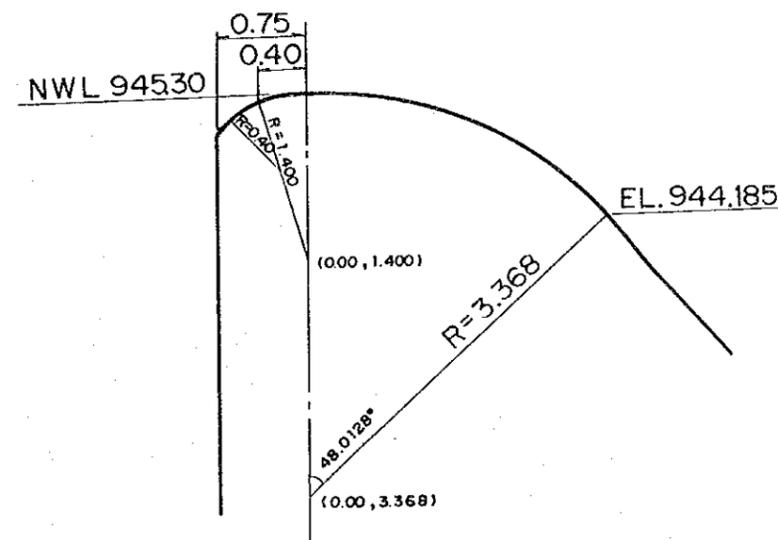
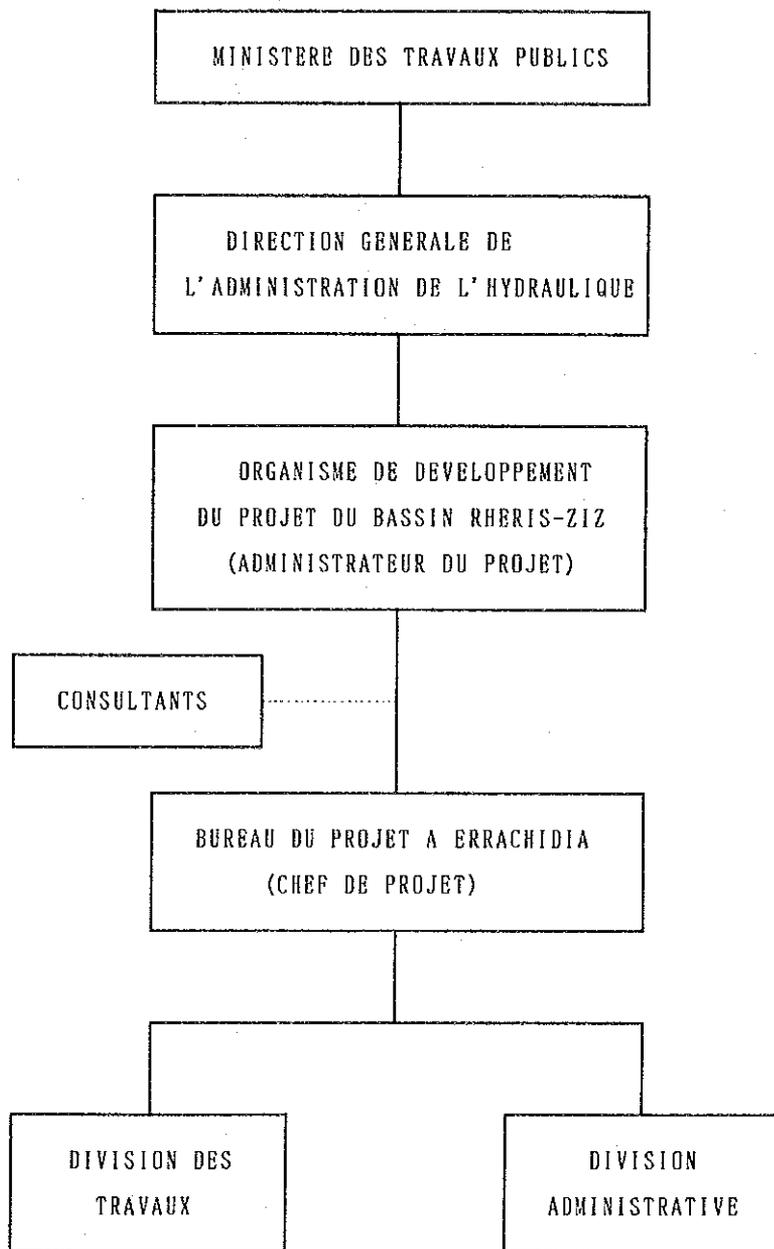


図11.14 Oulhouダム (No.29) 一般構造図

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图12.1 事業実施組織図







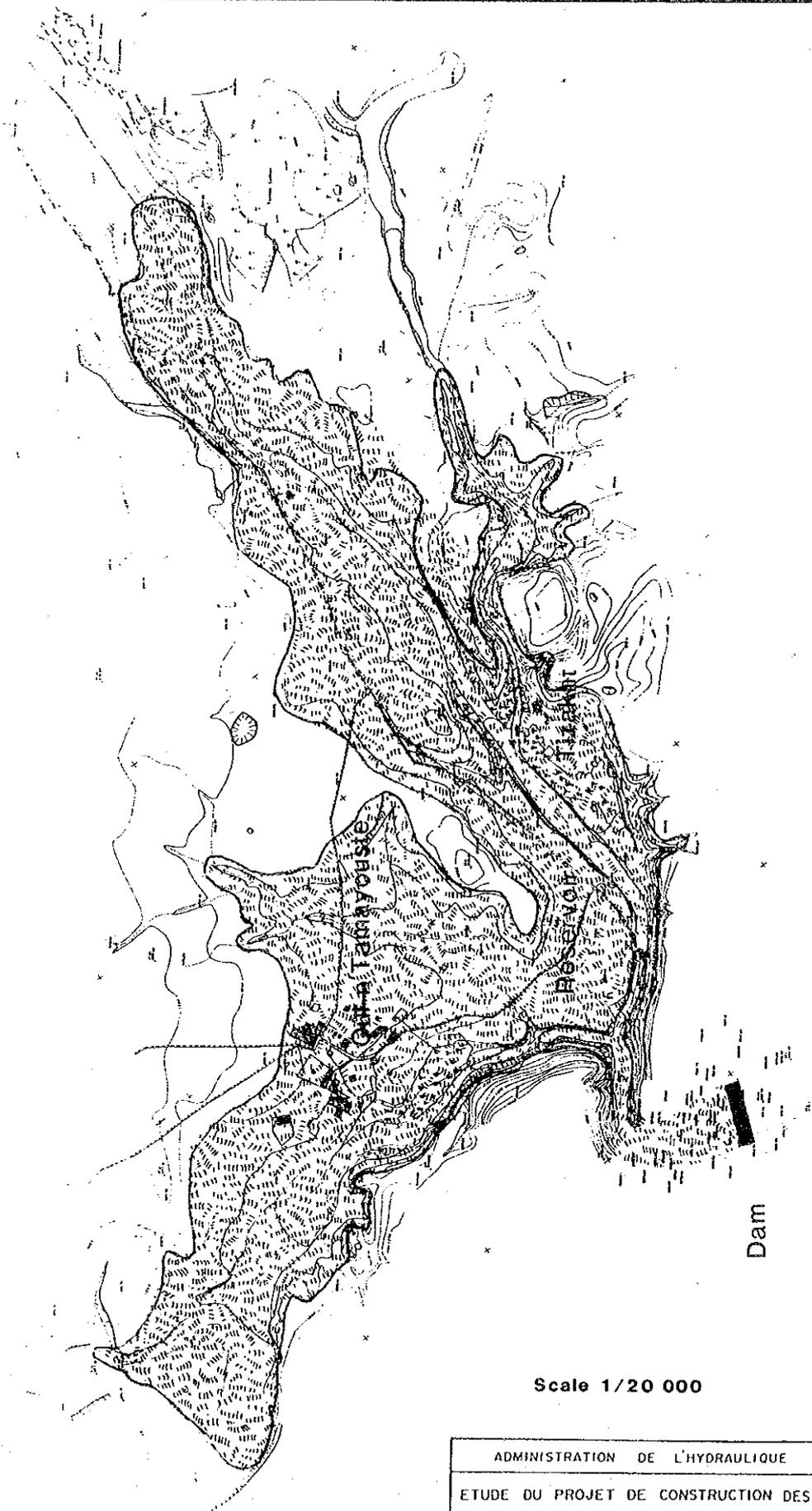












Scale 1/20 000

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図13.1 Timkitダム貯水池平面図



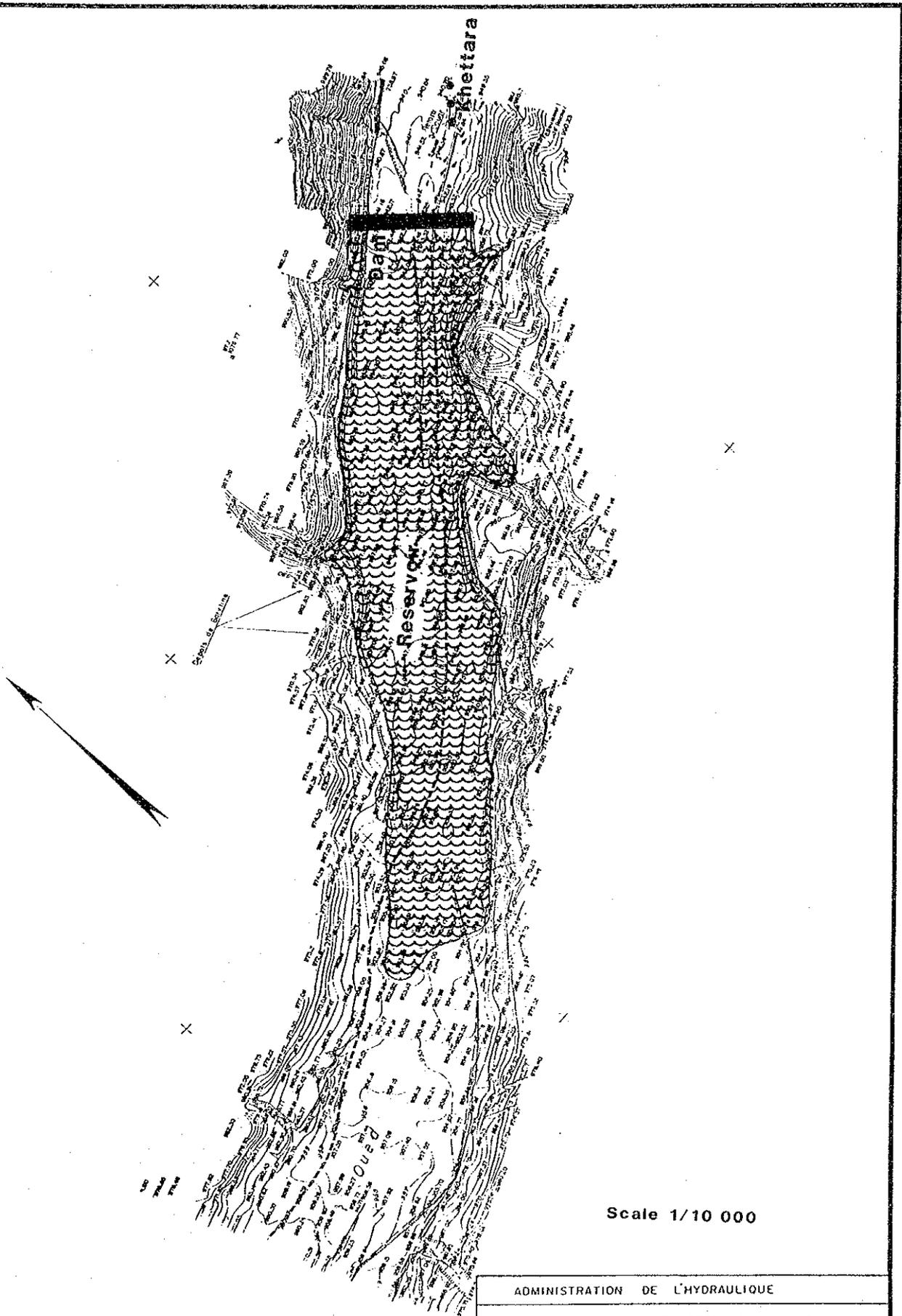
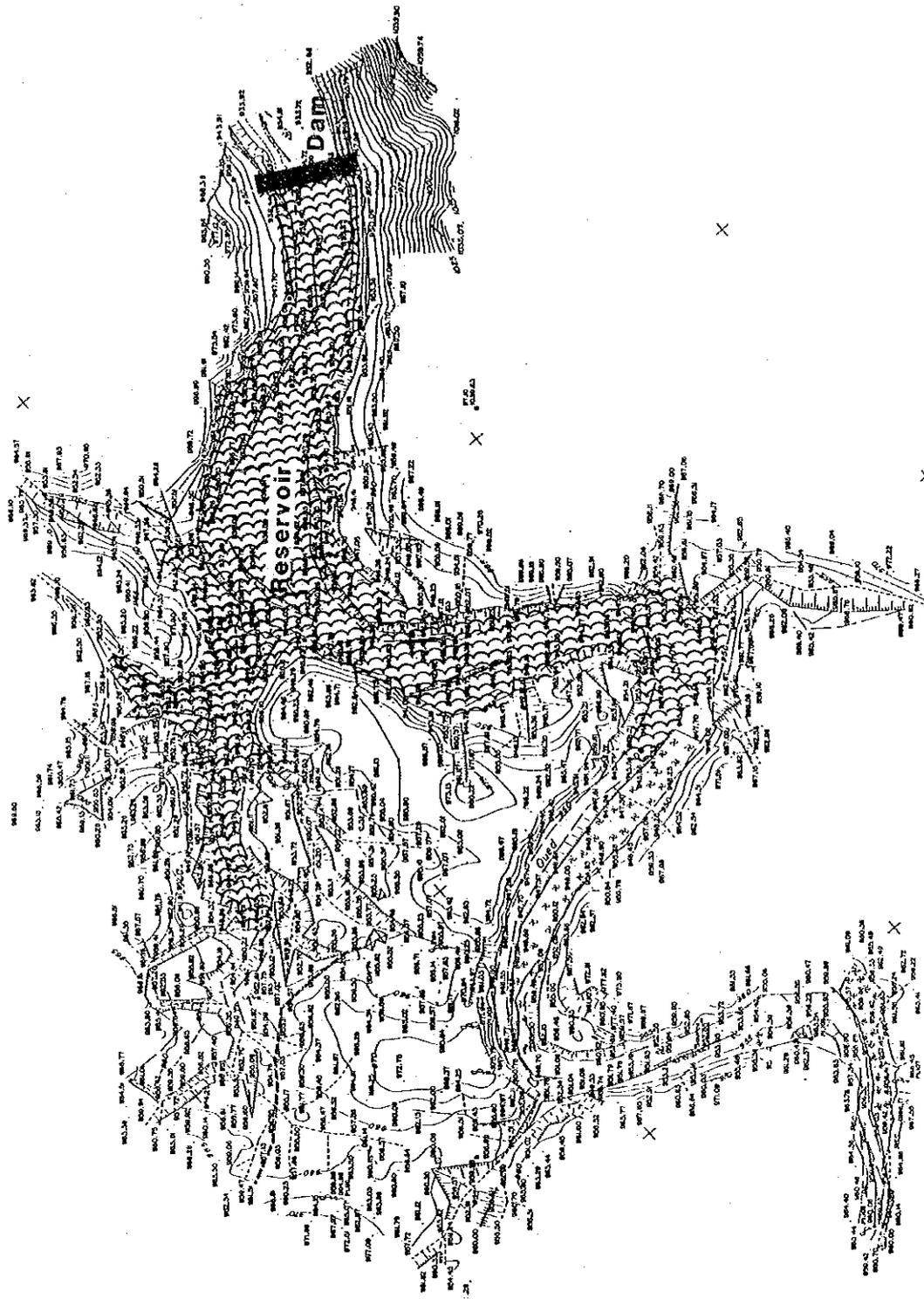


図13.2 Oukhitダム貯水池平面図

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図13.3 Oulhouダム貯水池平面図

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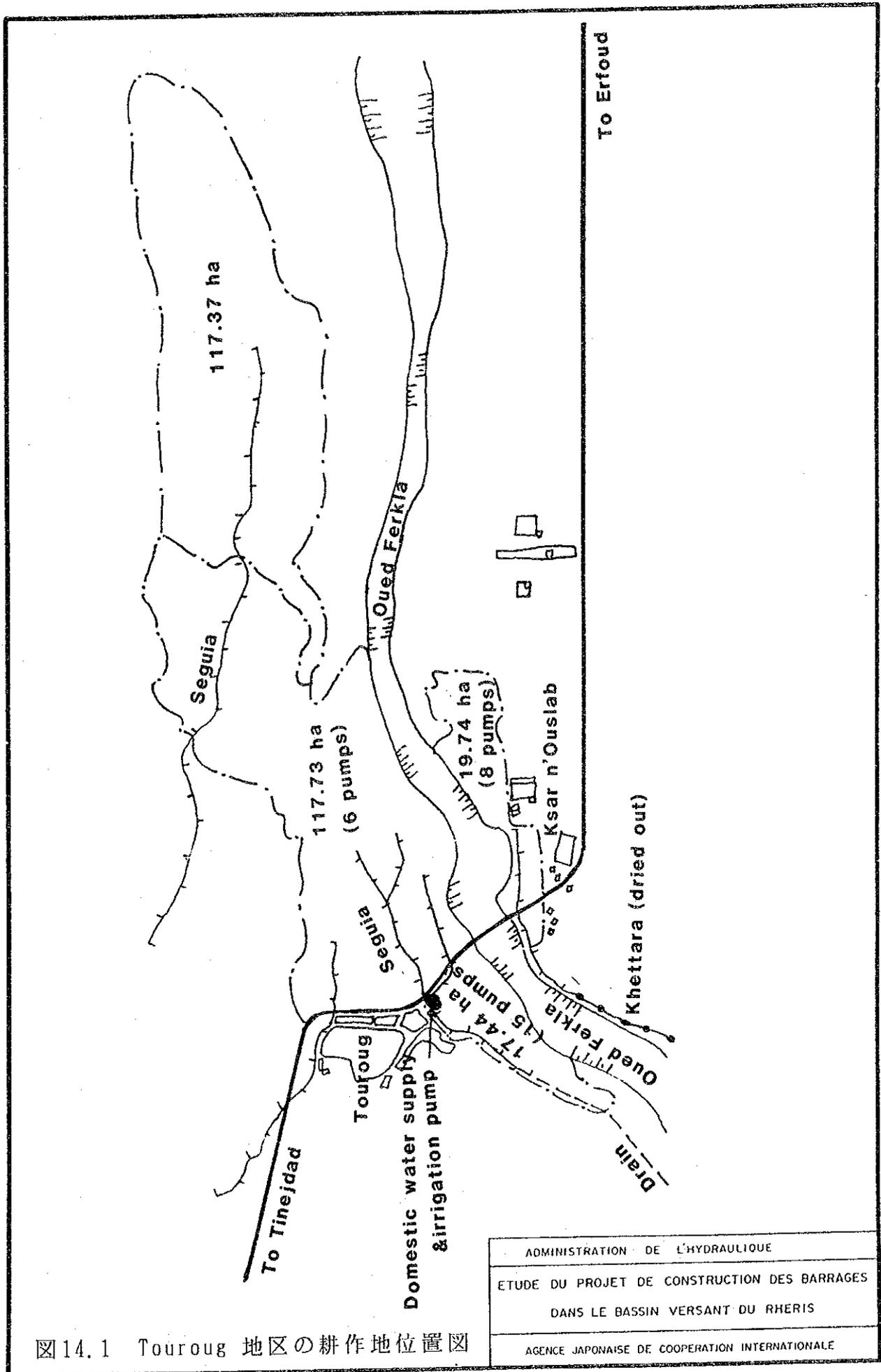


図14.1 Touroug 地区の耕作地位置図

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