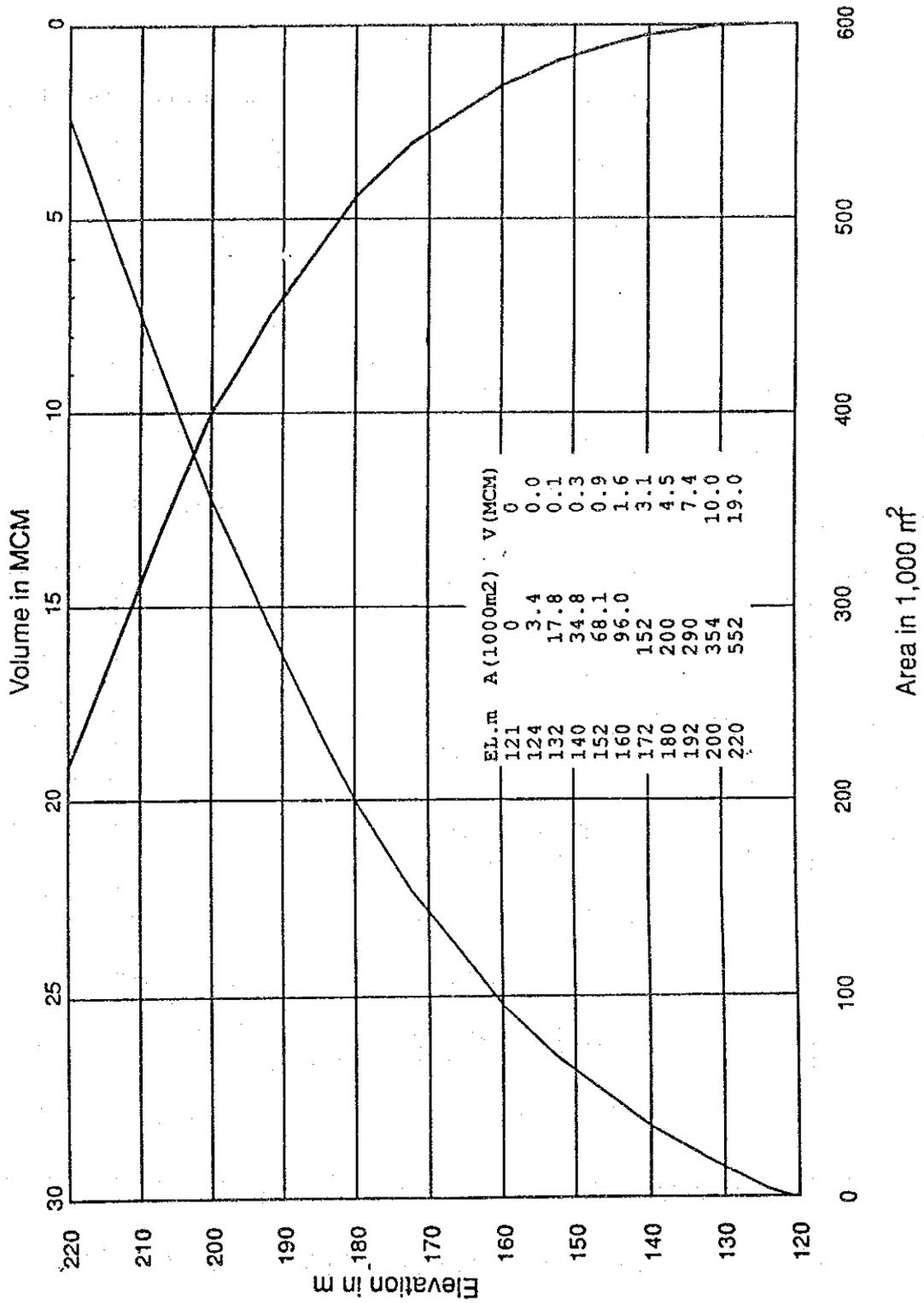


付 図



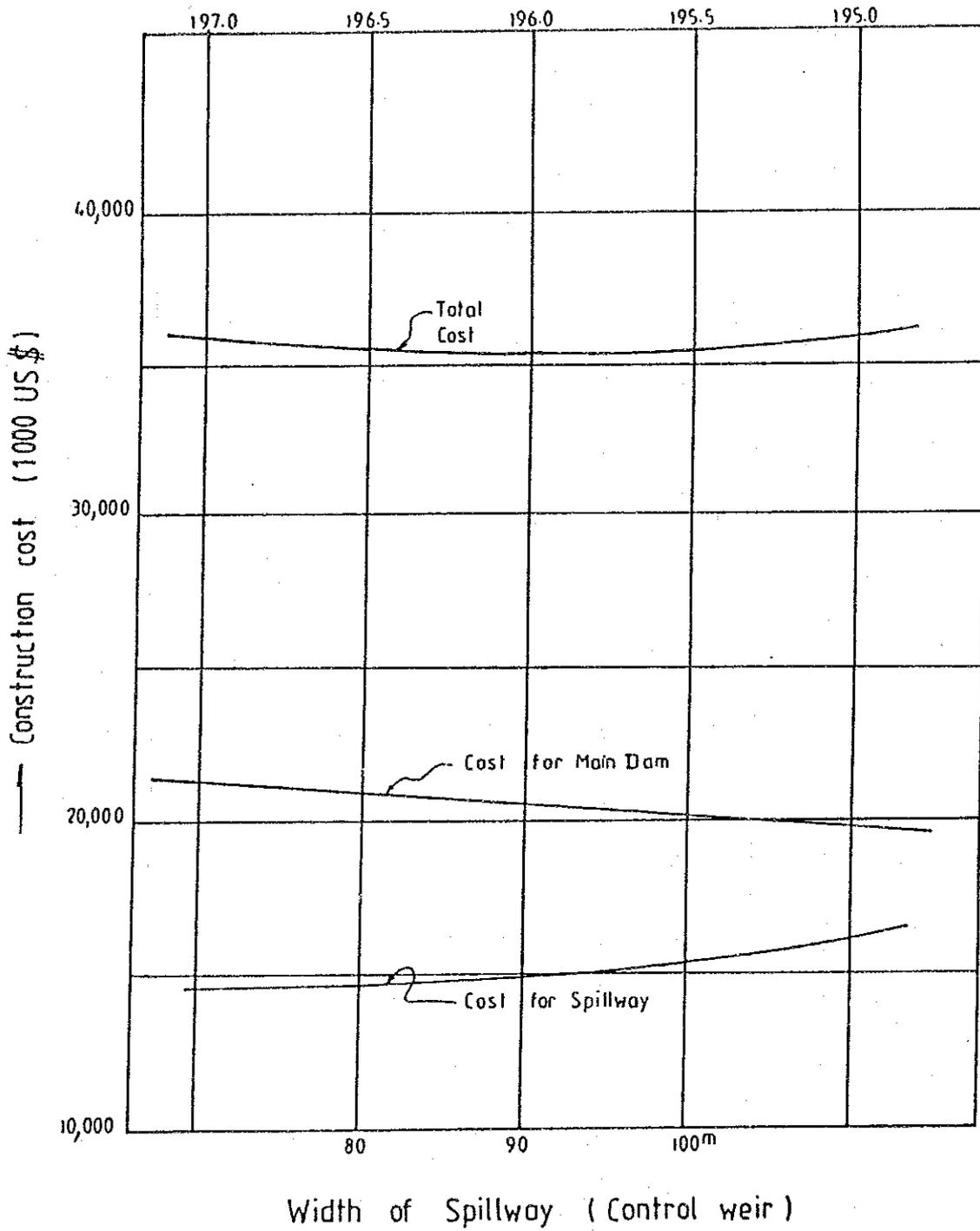


水位—容量—面積曲線

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

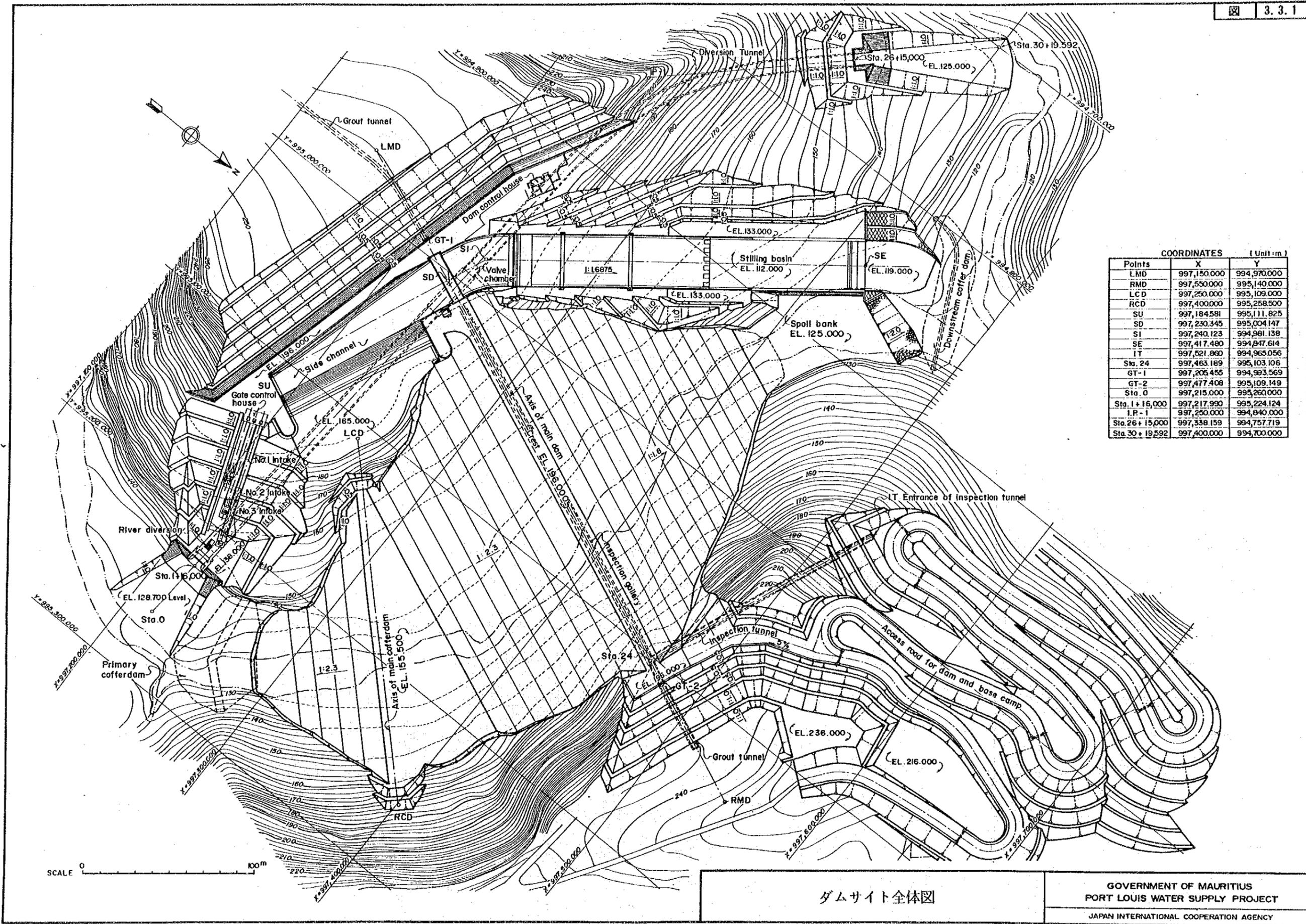
Crest EL. of Main Dam



ダム標高と洪水吐堤頂長による  
建設費比較

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

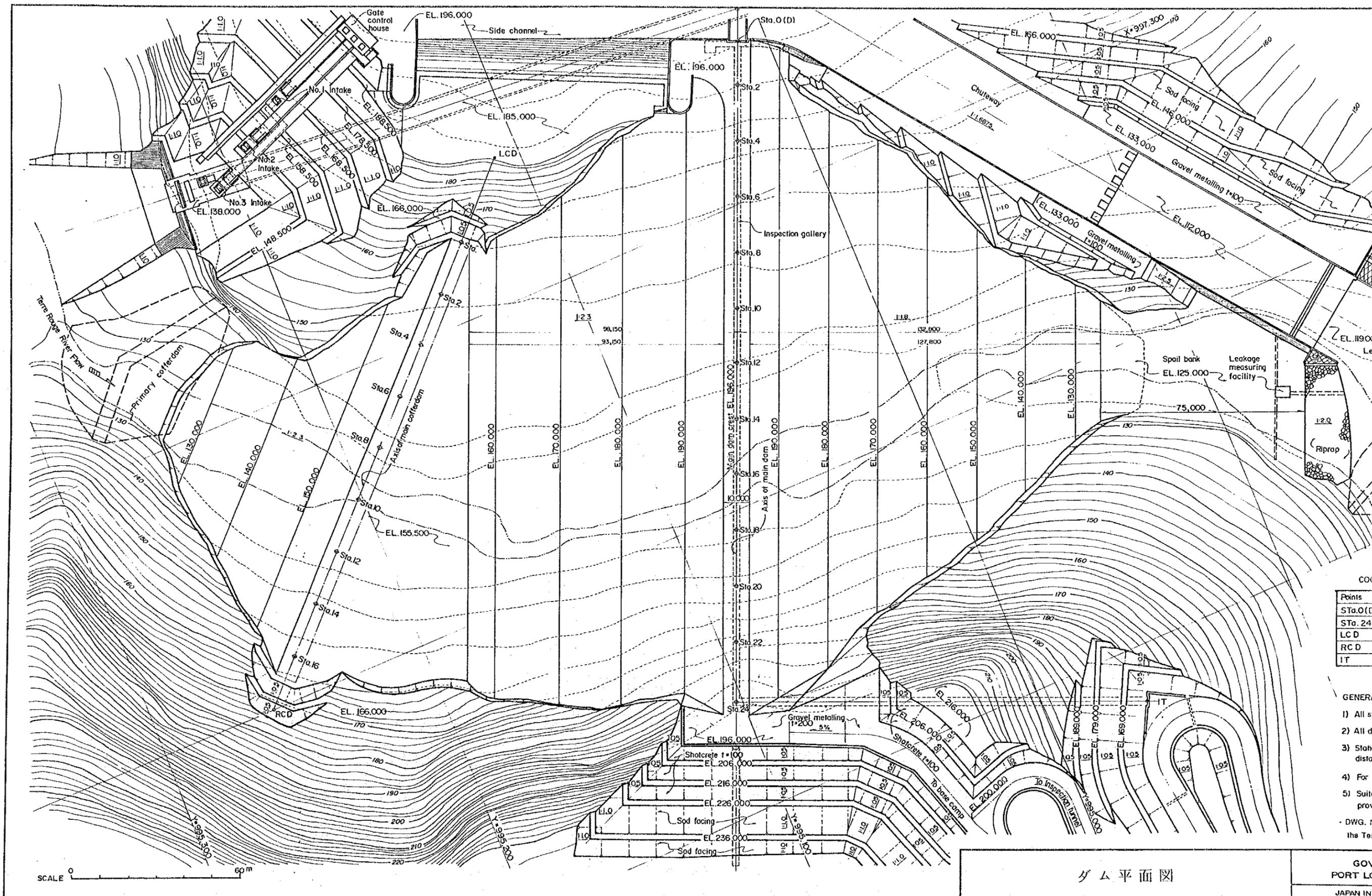
JAPAN INTERNATIONAL COOPERATION AGENCY



COORDINATES (Unit: m)		
Points	X	Y
LMD	997,150.000	994,970.000
RMD	997,550.000	995,140.000
LCD	997,250.000	995,109.000
RCD	997,400.000	995,258.500
SU	997,184.581	995,111.825
SD	997,230.345	995,004.147
SI	997,240.123	994,961.138
SE	997,417.480	994,847.614
IT	997,521.860	994,965.056
Sta. 24	997,463.189	995,103.106
GT-1	997,205.455	994,993.569
GT-2	997,477.408	995,109.149
Sta. 0	997,215.000	995,260.000
Sta. 1+15,000	997,217.990	995,224.124
I.P.-1	997,250.000	994,840.000
Sta. 26+15,000	997,338.159	994,757.719
Sta. 30+19,592	997,400.000	994,700.000

ダムサイト全体図

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY



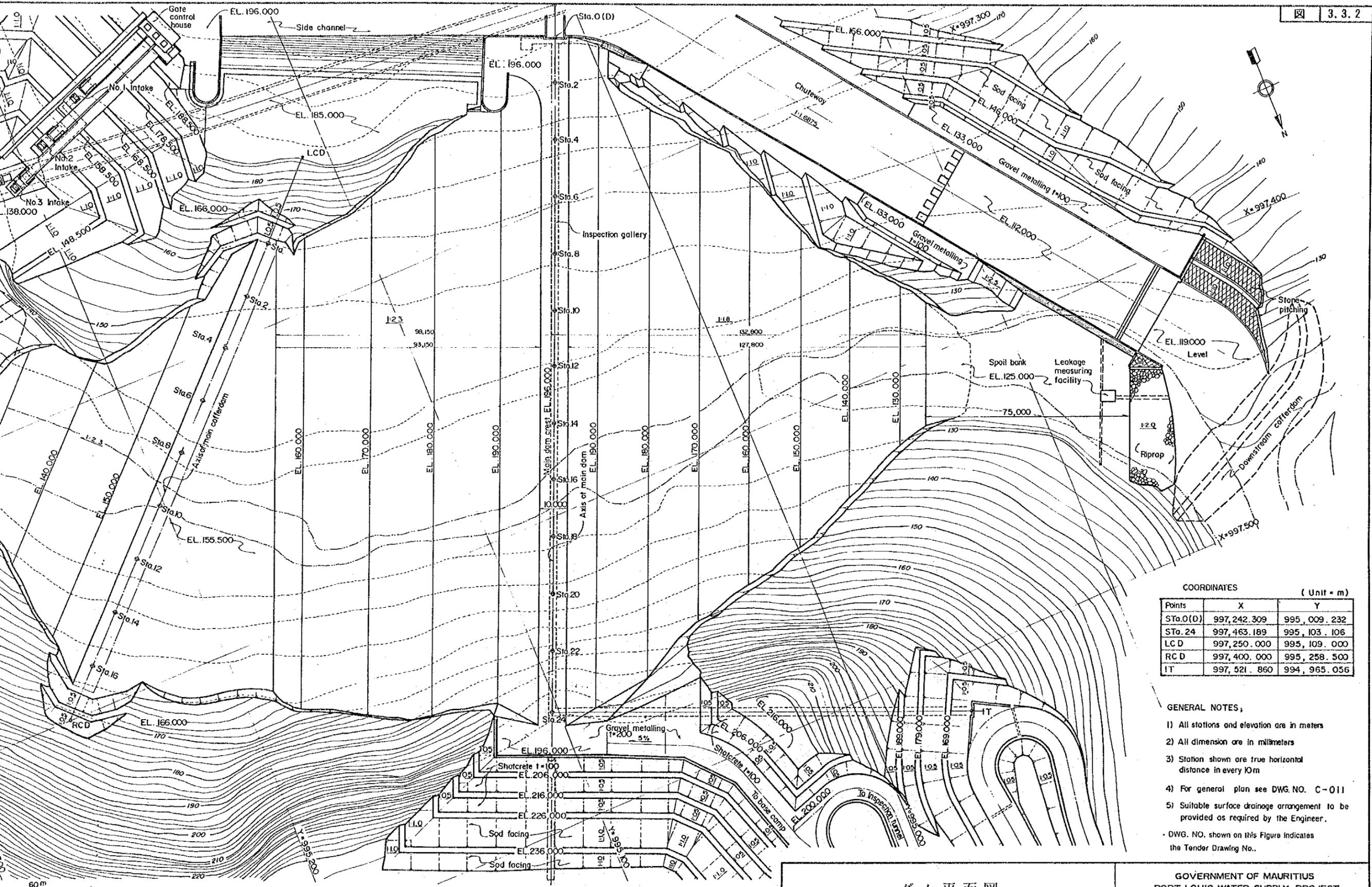
SCALE 0 60m

Points
Sta. 0(D)
Sta. 24
LC D
RC D
IT

- GENERAL NOTES
- 1) All sta...
  - 2) All di...
  - 3) Statio...
  - 4) For...
  - 5) Suita...
- DWG. N...  
the Ten...

ダム平面図

GOV...  
PORT LO...  
JAPAN INT...

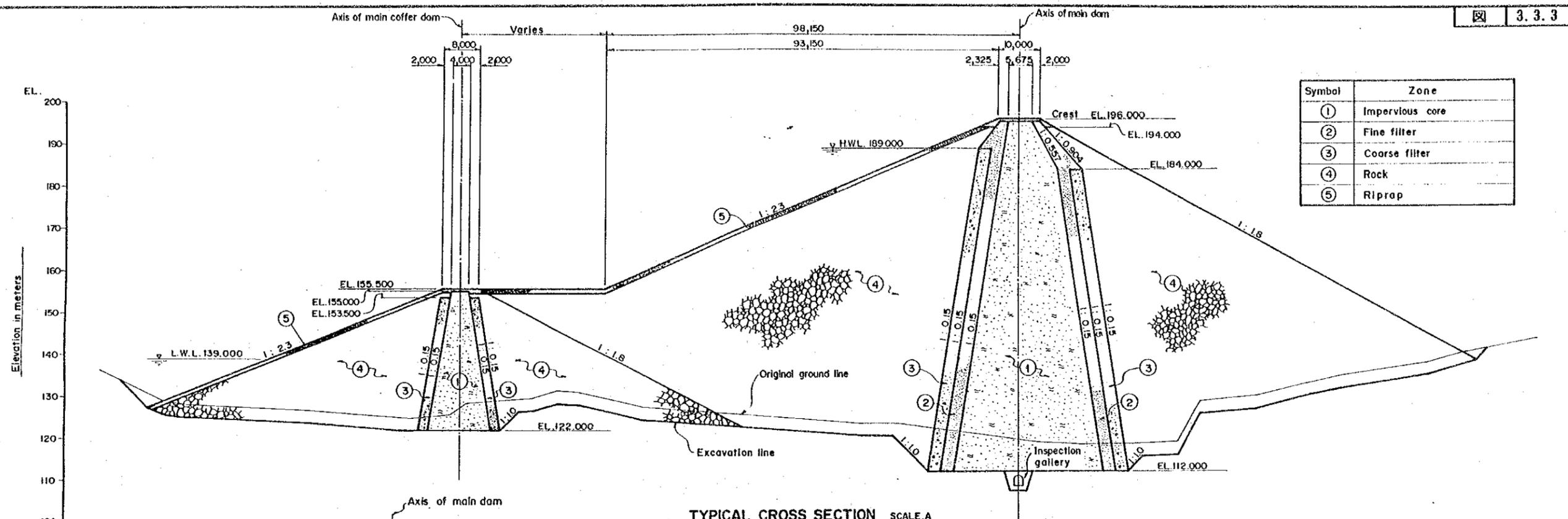


COORDINATES (Unit = m)

Points	X	Y
Sta.0(D)	997,242.309	995,009.232
Sta.24	997,463.189	995,103.106
LC D	997,250.000	995,109.000
RC D	997,400.000	995,258.500
IT	997,521.860	994,965.056

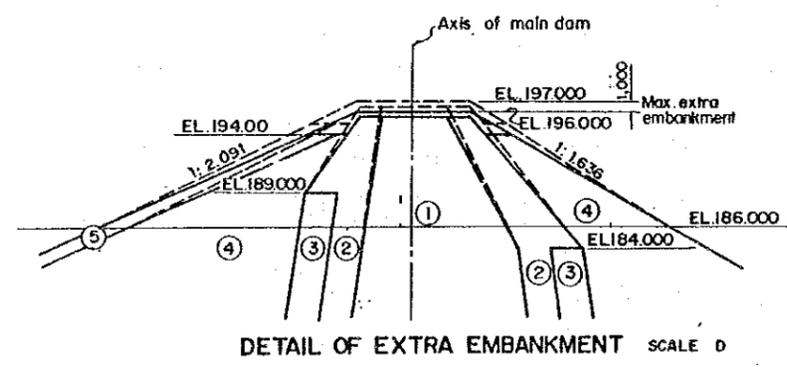
- GENERAL NOTES,
- 1) All stations and elevation are in meters
  - 2) All dimension are in millimeters
  - 3) Station shown are true horizontal distance in every 10m
  - 4) For general plan see DWG. NO. C-011
  - 5) Suitable surface drainage arrangement to be provided as required by the Engineer.
- DWG. NO. shown on this Figure indicates the Tender Drawing No..

ダム平面図

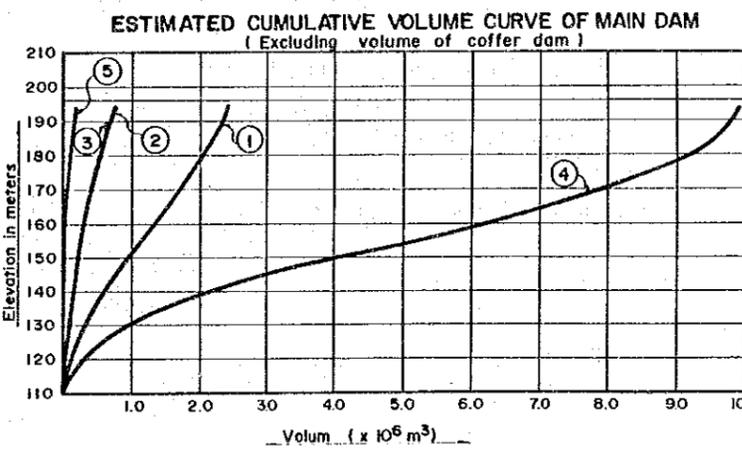


Symbol	Zone
①	Impervious core
②	Fine filter
③	Coarse filter
④	Rock
⑤	Riprap

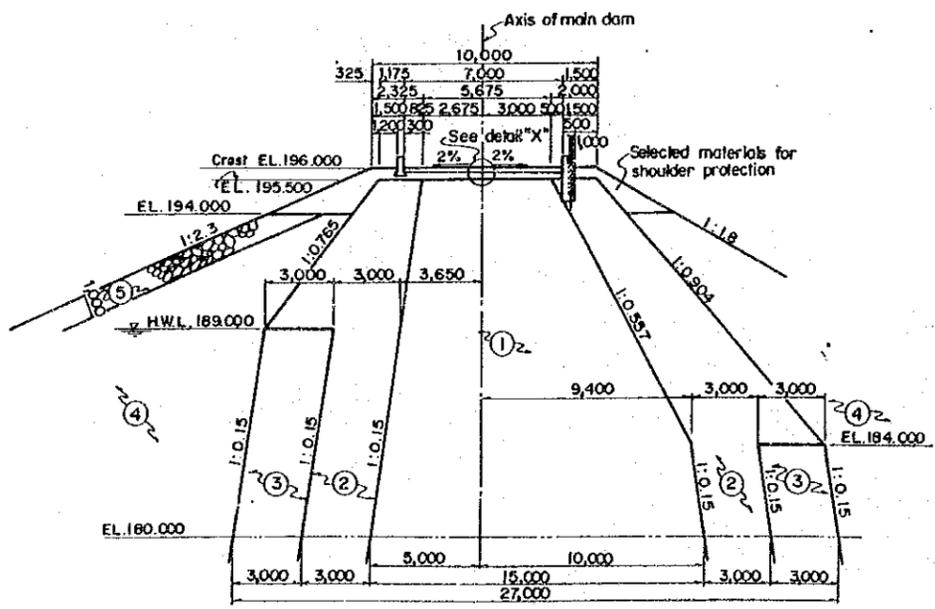
TYPICAL CROSS SECTION SCALE A



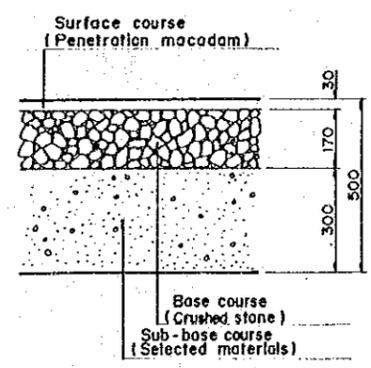
DETAIL OF EXTRA EMBANKMENT SCALE D



Elevation (m)	Zone					Total (x 10 <sup>6</sup> m <sup>3</sup> )
	①	②	③	④	⑤	
196 ~ 190	9.9	4.8		7.7	2.1	24.5
190 ~ 180	29.2	9.4	8.7	62.0	4.8	114.1
180 ~ 170	34.1	12.4	12.4	126.9	4.3	190.1
170 ~ 160	38.1	11.7	11.7	174.4	3.7	239.6
160 ~ 150	36.3	9.8	9.8	212.3	6.4	274.6
150 ~ 140	35.7	8.4	8.4	187.0	-	239.5
140 ~ 130	30.3	6.4	6.4	118.9	-	162.0
130 ~ 120	19.3	4.1	4.1	78.2	-	105.7
120 ~ 110	10.0	1.8	1.7	17.8	-	31.3
Total (x 10 <sup>6</sup> m <sup>3</sup> )	242.9	68.8	63.2	985.2	21.3	1,381.4

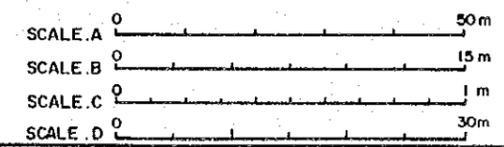


CREST DETAIL SCALE B



DETAIL "X" SCALE C

NOTES ;  
 1) For general notes see DWG No. C-012  
 2) For typical cross section of main coffer dam see DWG No. C-001  
 3) Excavation levels indicated may change to suit actual site conditions  
 - DWG. NO. shown on this Figure indicates the Tender Drawing No.

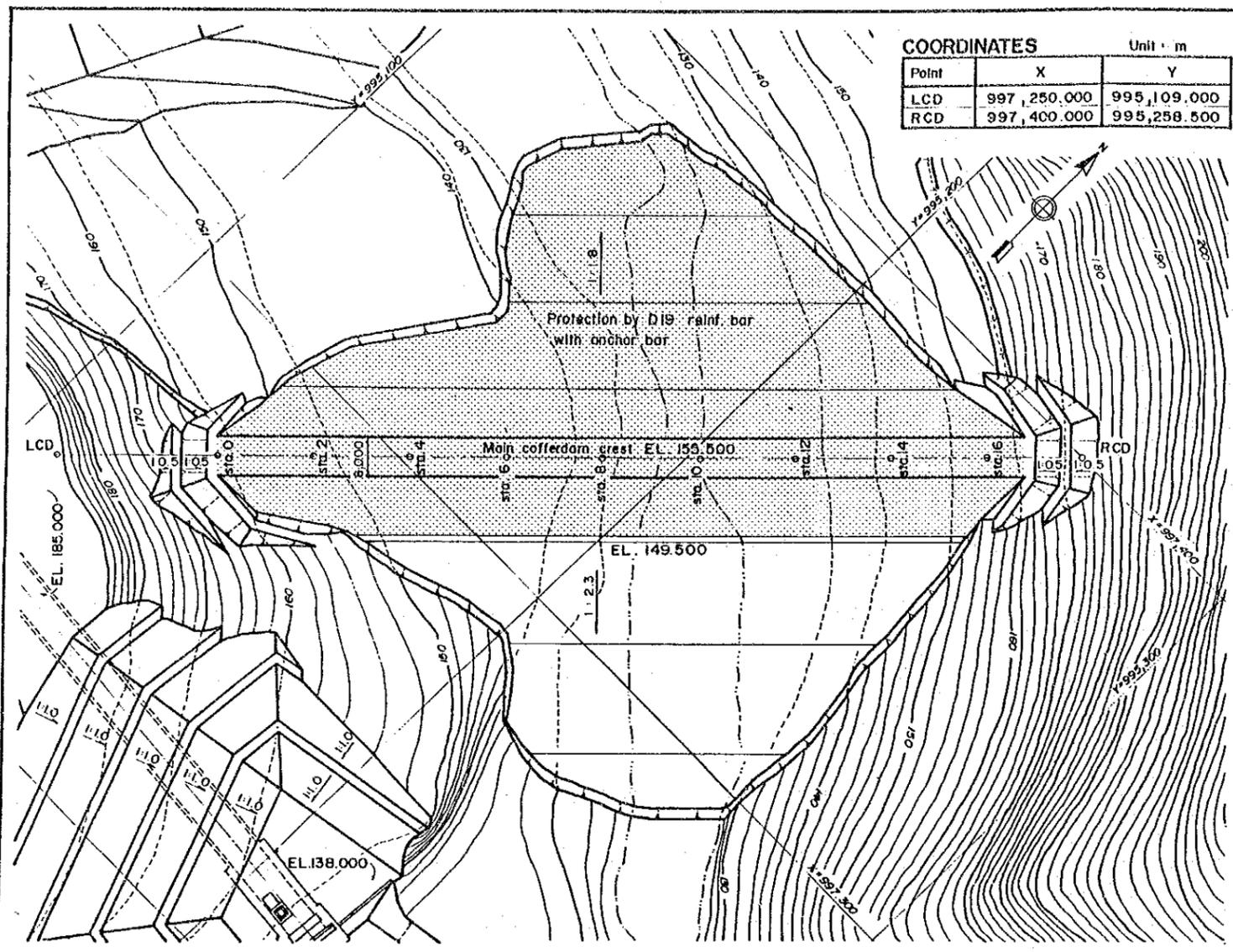


ダム標準断面及び詳細図

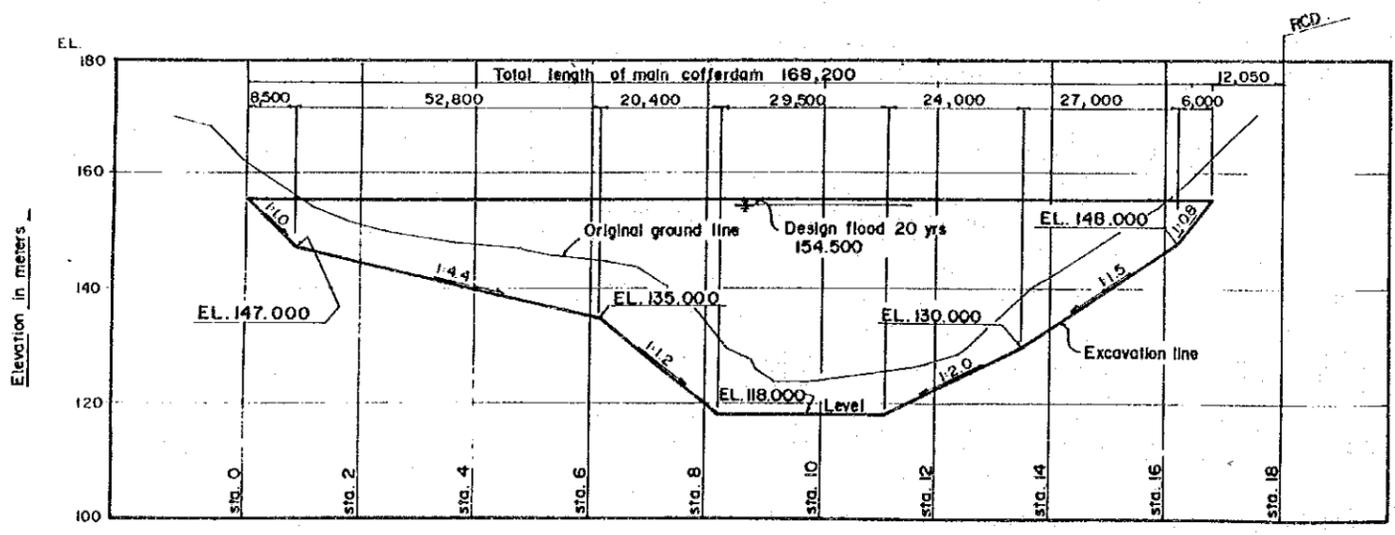


**COORDINATES** Unit: m

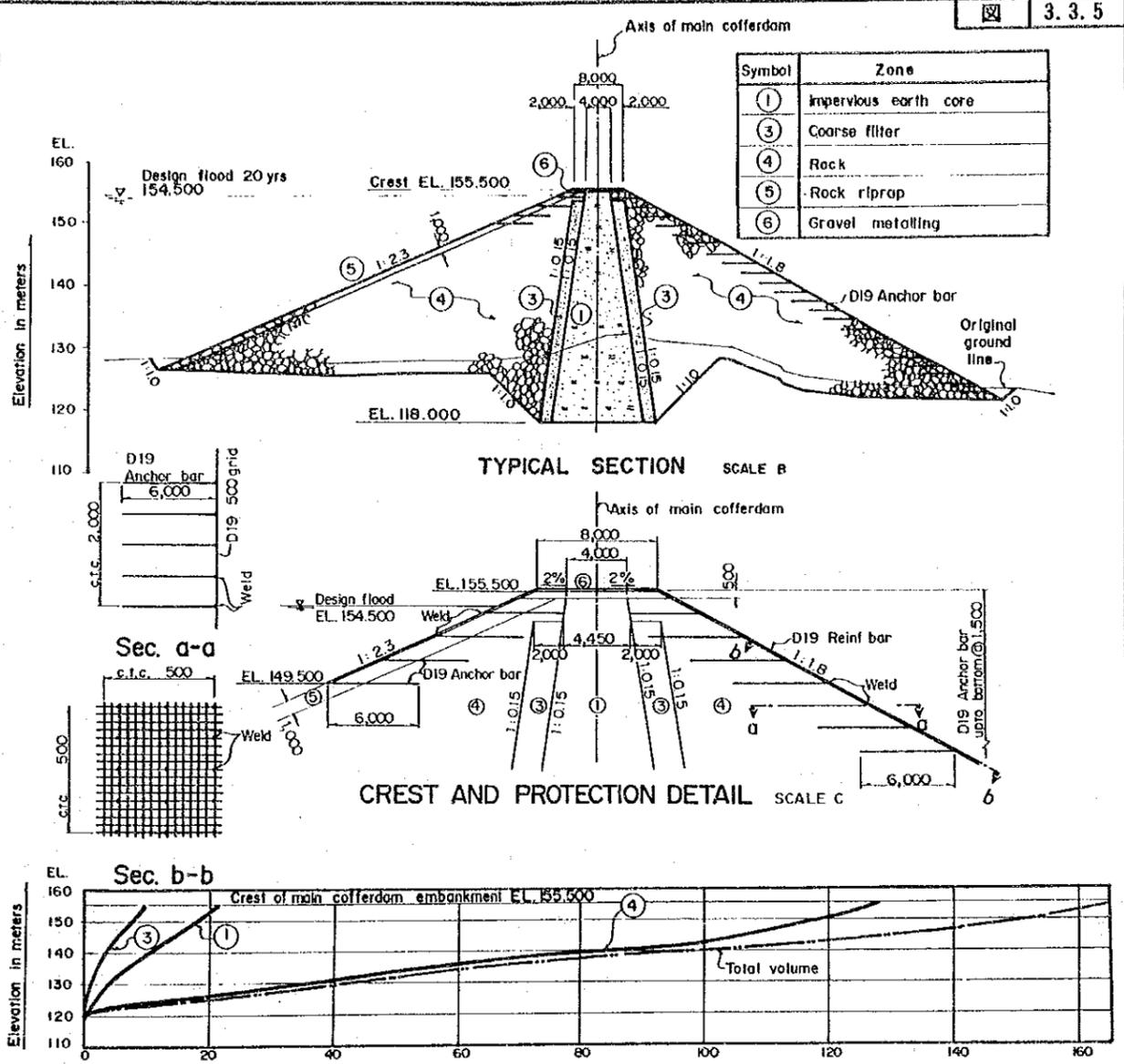
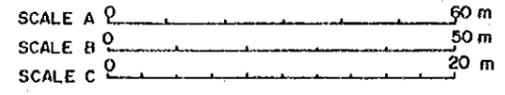
Point	X	Y
LCD	997,250.000	995,109.000
RCD	997,400.000	995,258.500



PLAN SCALE A



PROFILE SCALE A



ESTIMATED CUMULATED VOLUME CURVE

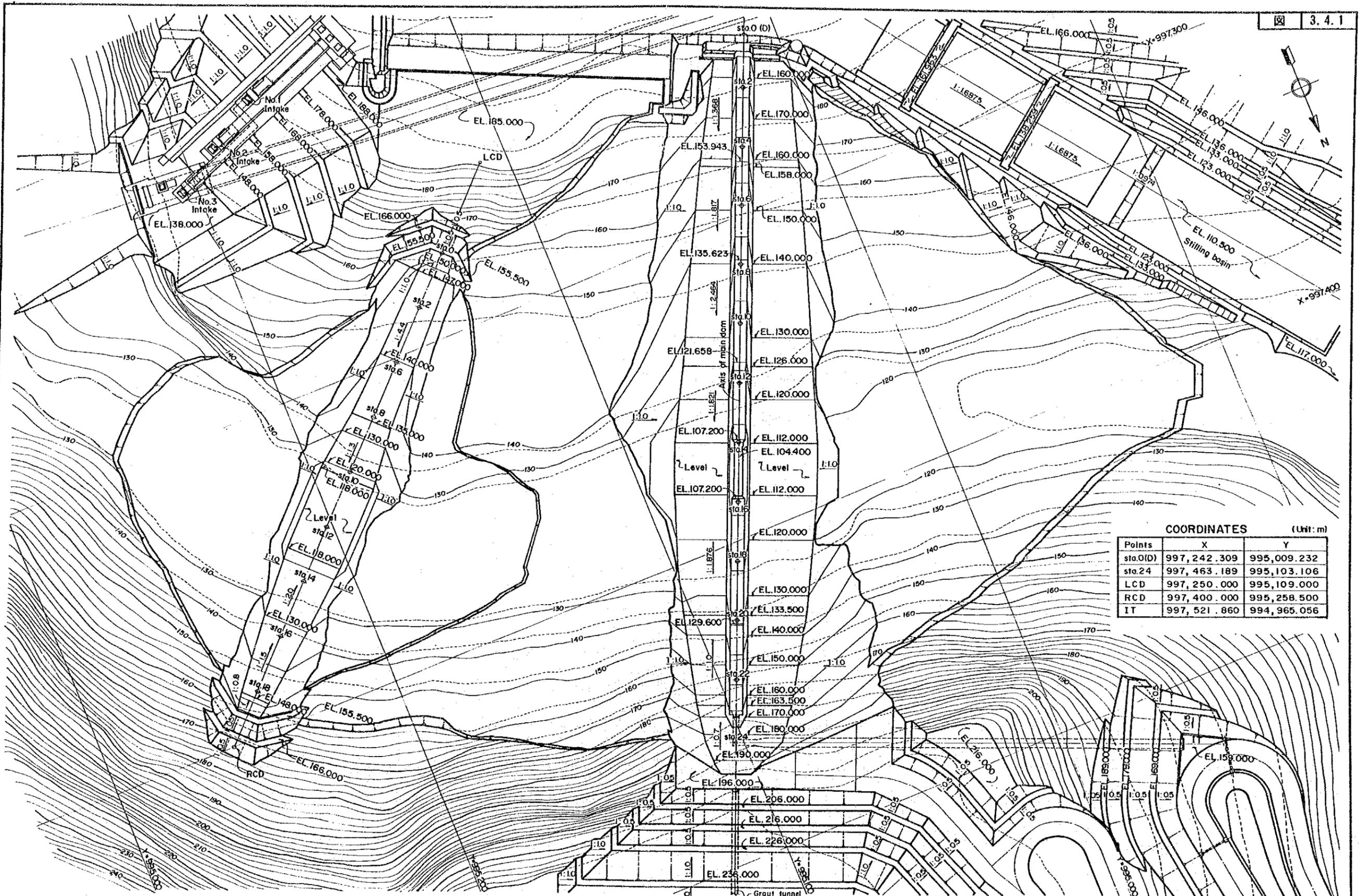
Elevation (m)	Zone					Total
	(1)	(3)	(4)	(5)	(6)	
155.50 ~ 150.00	3.4	1.9	7.5	2.1	0.76	15.66
150.00 ~ 140.00	7.5	4.1	39.2	2.5	-	53.30
140.00 ~ 130.00	6.4	2.4	45.7	1.7	-	56.20
130.00 ~ 120.00	4.2	1.3	35.4	0.5	-	41.40
120.00 ~ 110.00	-	-	0.5	-	-	0.50
<b>Total</b>	<b>21.5</b>	<b>9.7</b>	<b>128.3</b>	<b>6.8</b>	<b>0.76</b>	<b>167.06</b>

ESTIMATED VOLUME

**NOTES**

- Excavation lines may be changed according to the actual geological conditions.
- All dimension are in millimeters while elevation are in meters
- Stations shown are true horizontal distance in 20 m
- For location details, see DWG. No. C-011

- DWG. NO. shown on this Figure indicates the Tender Drawing No..



COORDINATES (Unit: m)

Points	X	Y
sta.0(D)	997,242.309	995,009.232
sta.24	997,463.189	995,103.106
LCD	997,250.000	995,109.000
RCD	997,400.000	995,258.500
IT	997,521.860	994,965.056

NOTES;  
 1) For general notes see DWG No. C-012.  
 2) For cross section see DWG No. C-016 to DWGC-025.  
 3) Excavation levels indicated may change to suit actual site conditions.

- DWG. NO. shown on this Figure indicates the Tender Drawing No.



ダム掘削平面図

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

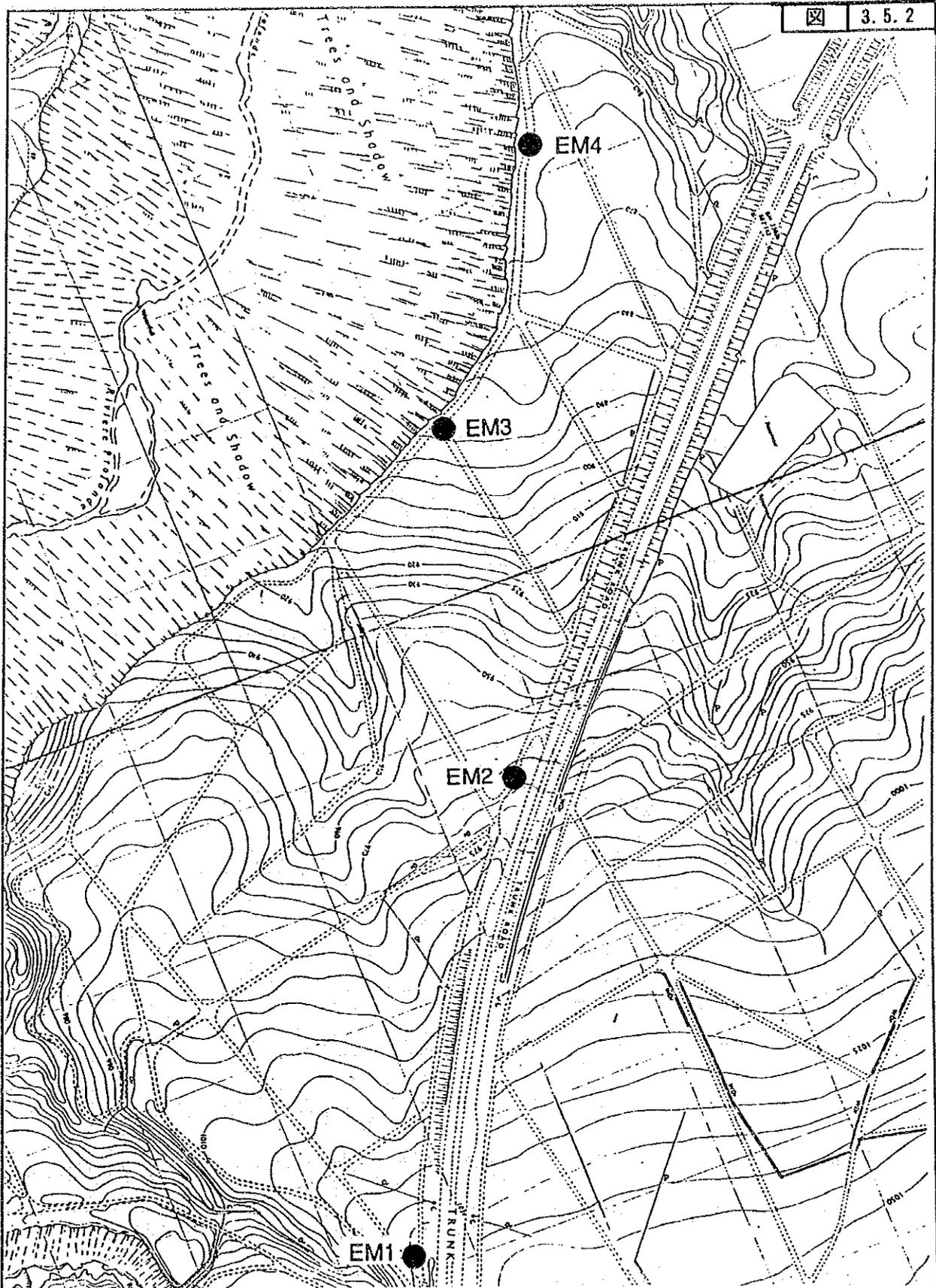


SCALE 0 400m

プロジェクト概要図

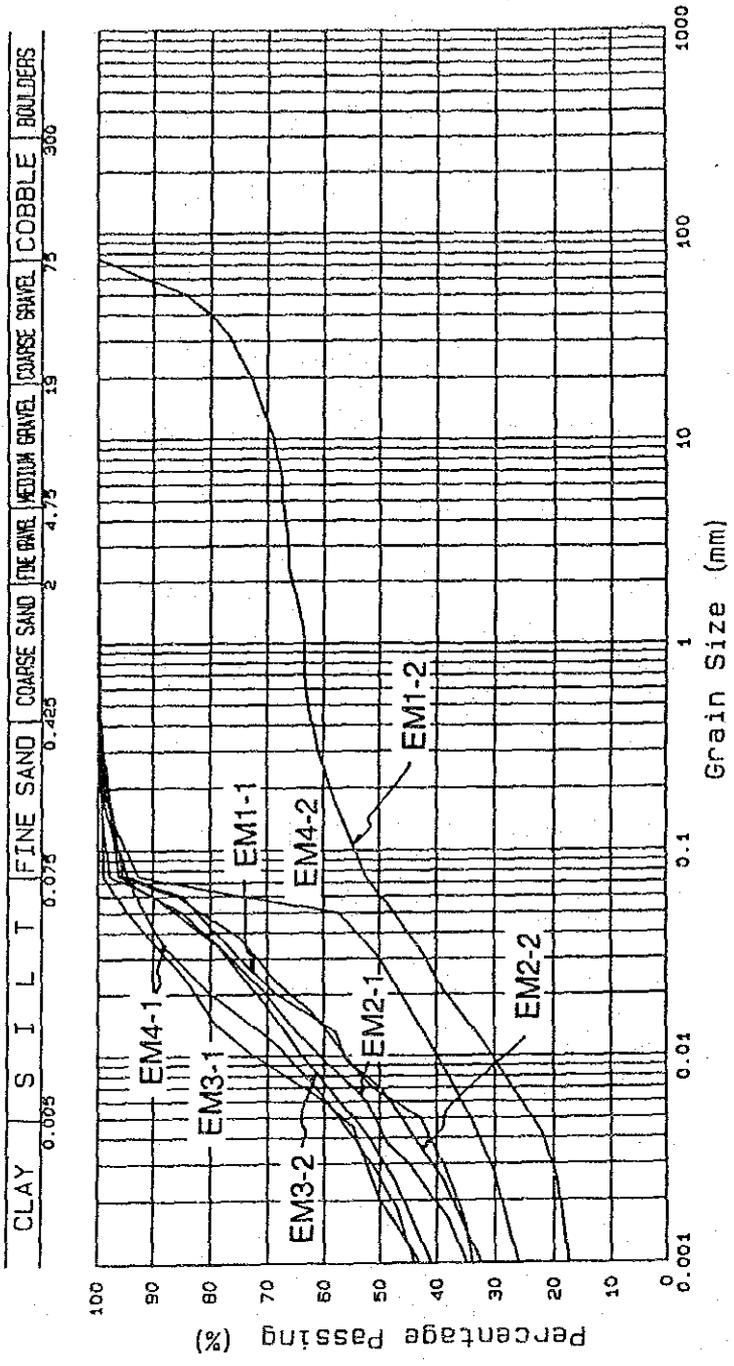
GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY





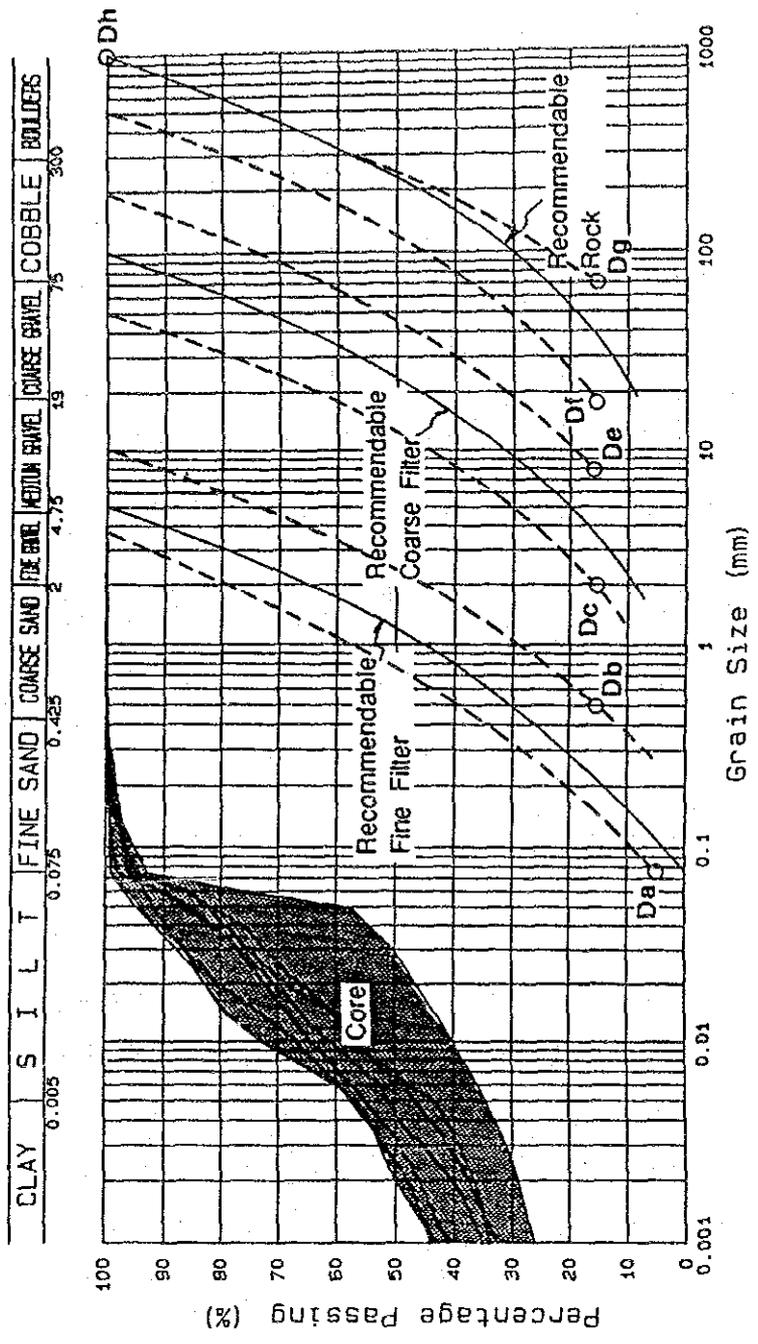
土取場の土質試験試料採取位置図

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY



コア材粒度曲線

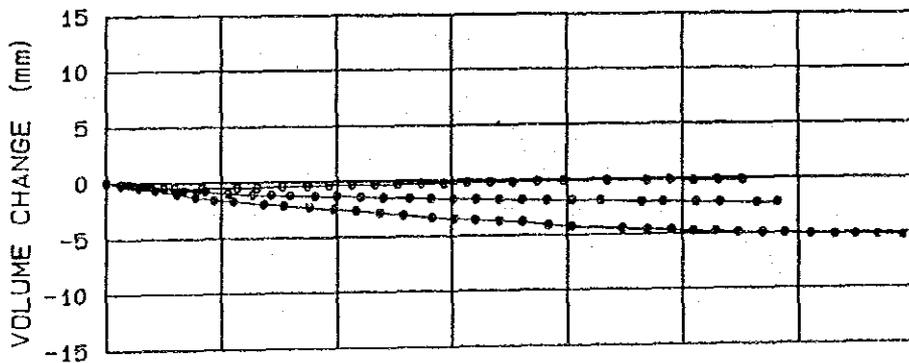
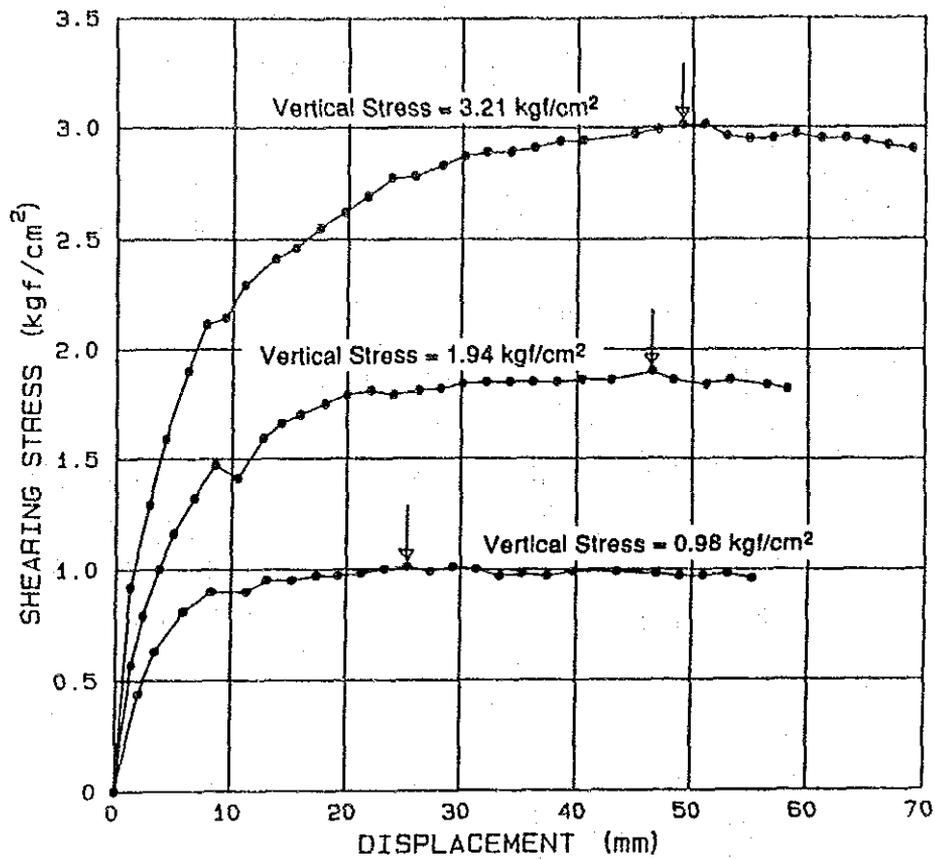
GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY



適正盛土材料粒度曲線

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

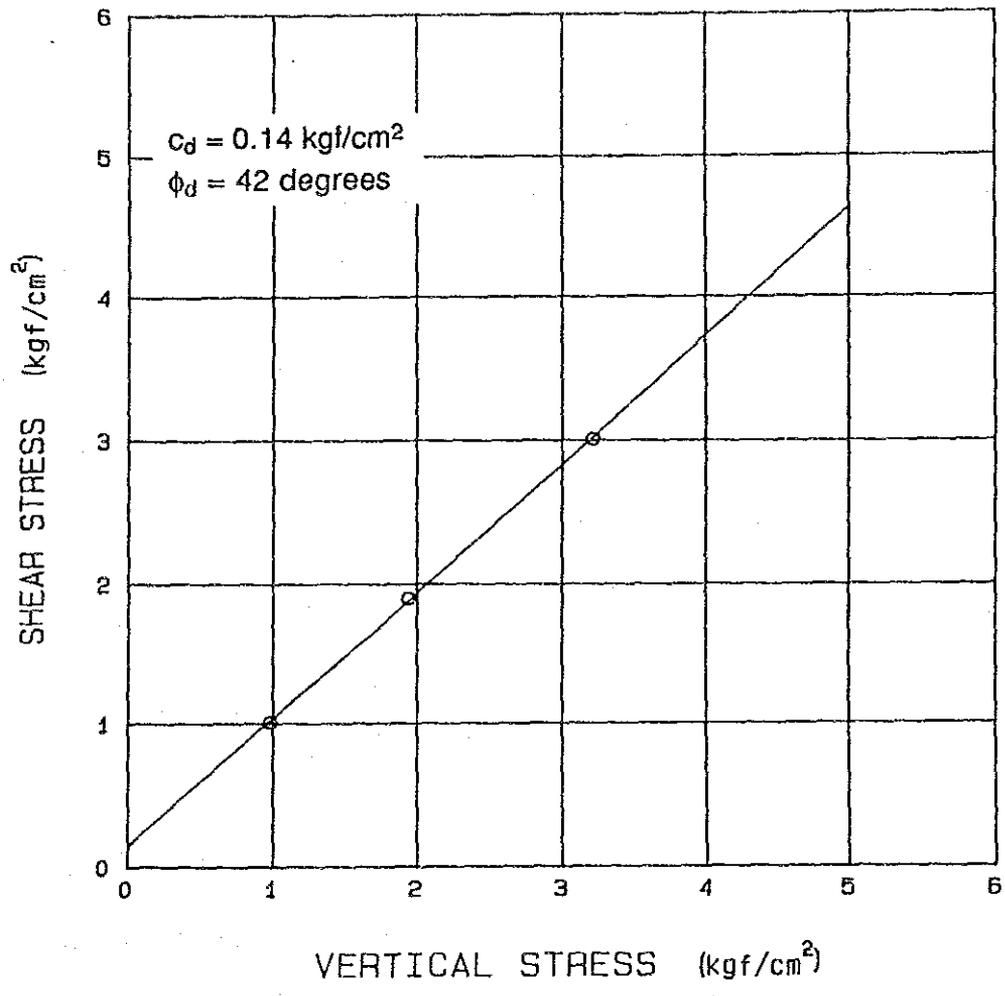
JAPAN INTERNATIONAL COOPERATION AGENCY



大型直接せん断試験における応力  
-ヒズミ曲線

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY



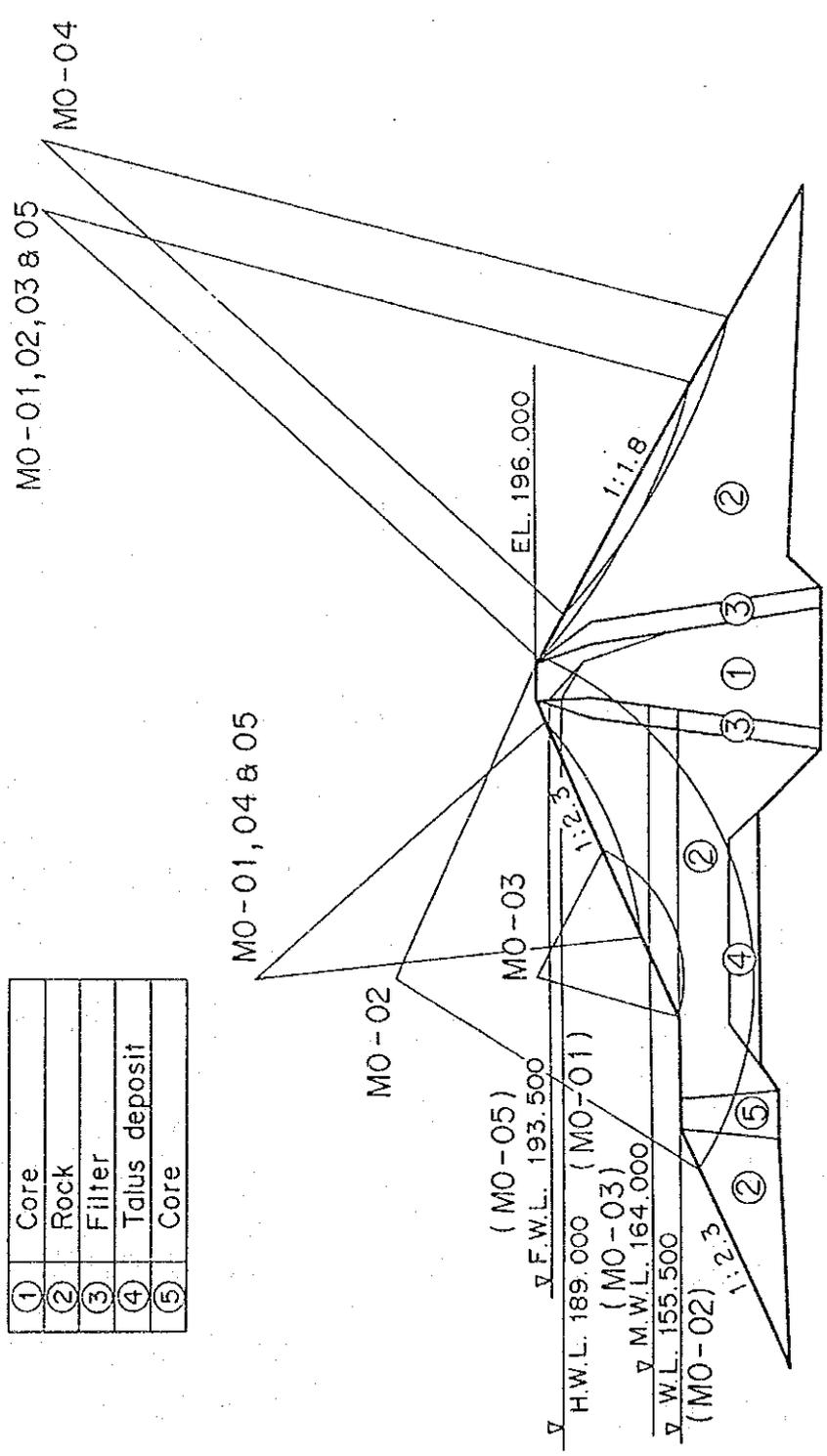
大型直接せん断試験における垂直応力  
-せん断応力曲線

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY



Remark: Dam Scheme : Present Scheme (Dam Crest EL. 196.0 m)  
 Dam Section : Left Bank Dam Section  
 Dam Slope : 1 to 2.3 in U/S, 1 to 1.8 in D/S

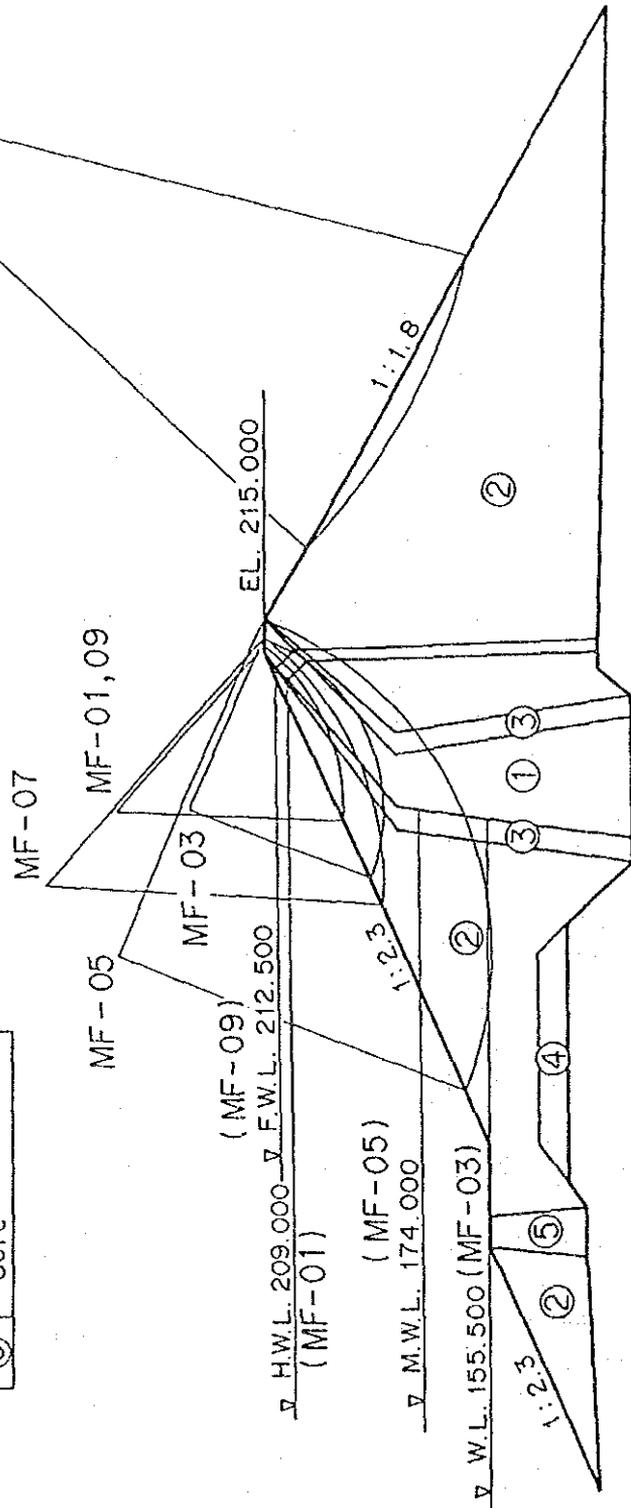


最小安全率における円形スベリ面  
 (現計画、ダム標高 196.0m、左岸側)

Remark: Dam Scheme : Expanded Scheme (Dam Crest EL. 215.0 m)  
 Dam Section : Left Bank Dam Section  
 Dam Slope : 1 to 2.3 in U/S, 1 to 1.8 in D/S

MF-01, 03, 05, 07  
 & 09

①	Core
②	Rock
③	Filter
④	Talus deposit
⑤	Core

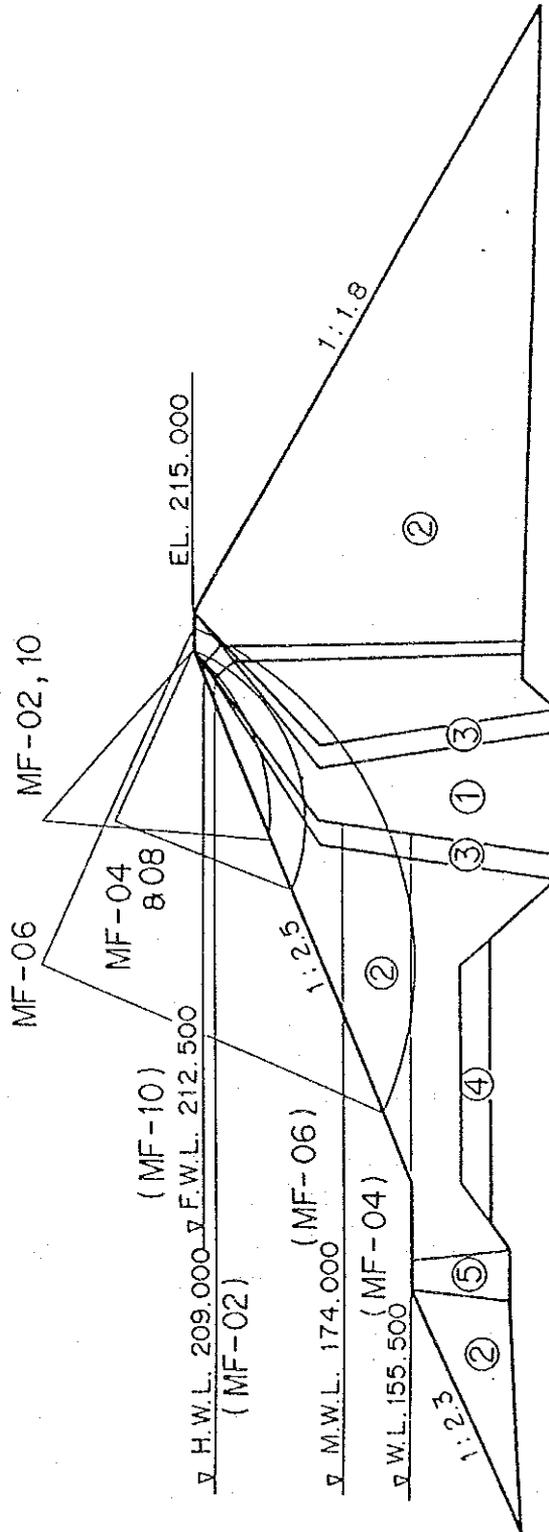


最小安全率における円形スベリ面  
 (拡張計画、ダム標高 215.0m、左岸側)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

Remark: Dam Scheme : Expanded Scheme (Dam Crest EL. 215.0 m)  
 Dam Section : Left Bank Dam Section  
 Dam Slope : 1 to 2.5 in U/S, 1 to 1.8 in D/S

①	Core
②	Rock
③	Filter
④	Talus deposit
⑤	Core



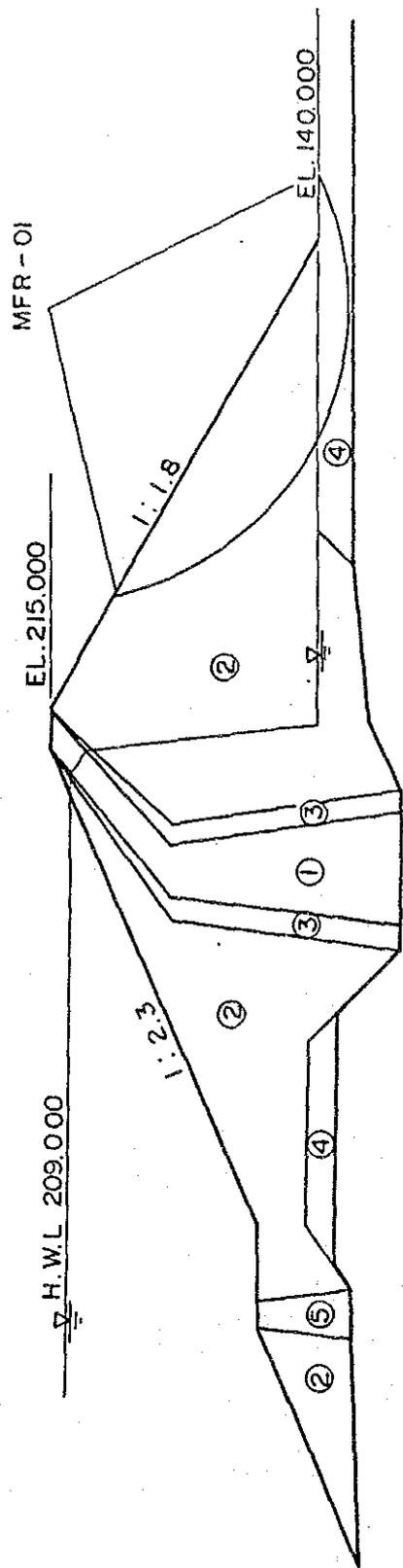
最小安全率における円形スベリ面  
 (拡張計画、ダム標高 215.0m、左岸側)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

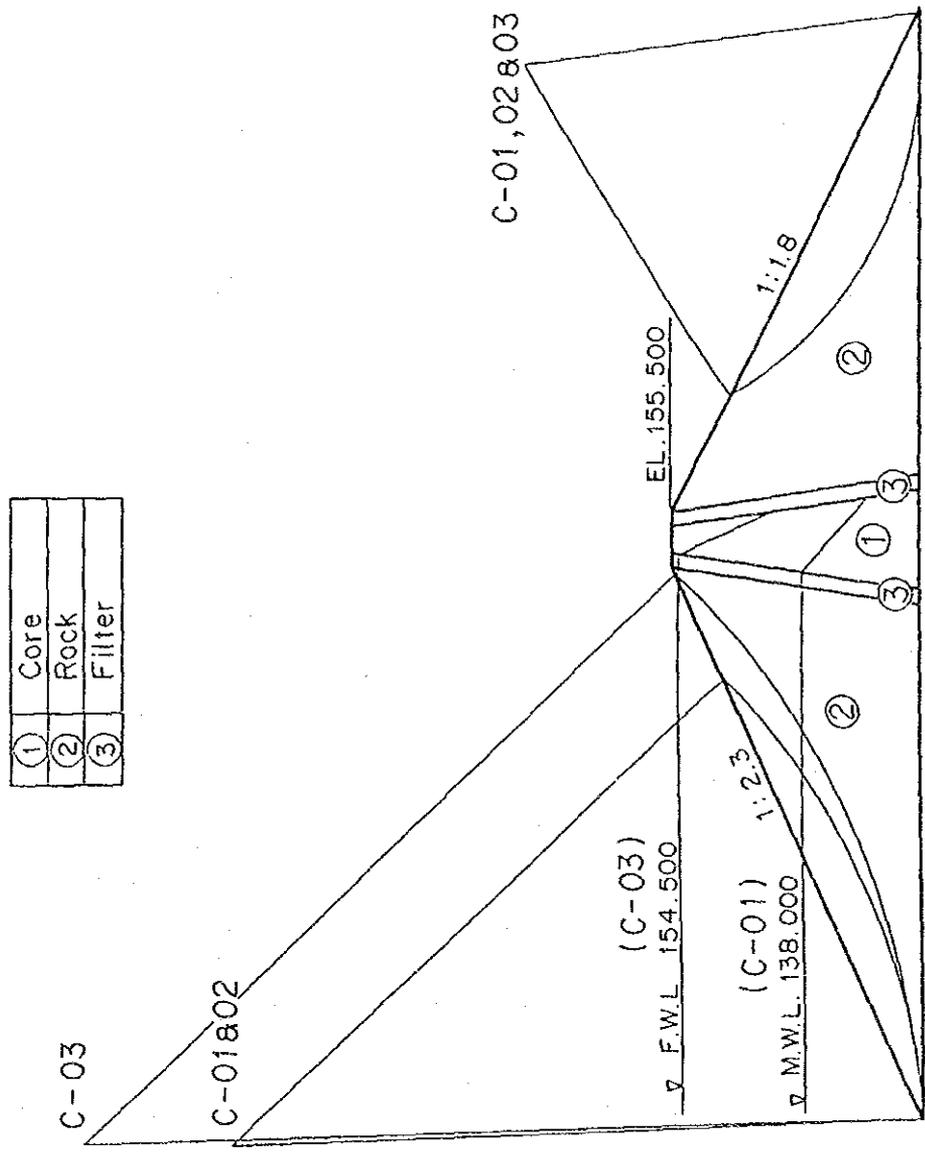
Remark: Dam Scheme : Expanded Scheme (Dam Crest EL. 215.0 m)  
 Dam Section : Right Bank Dam Section  
 Dam Slope : 1 to 2.3 in U/S, 1 to 1.8 in D/S

①	Core
②	Rock
③	Filler
④	Talus deposit
⑤	Core



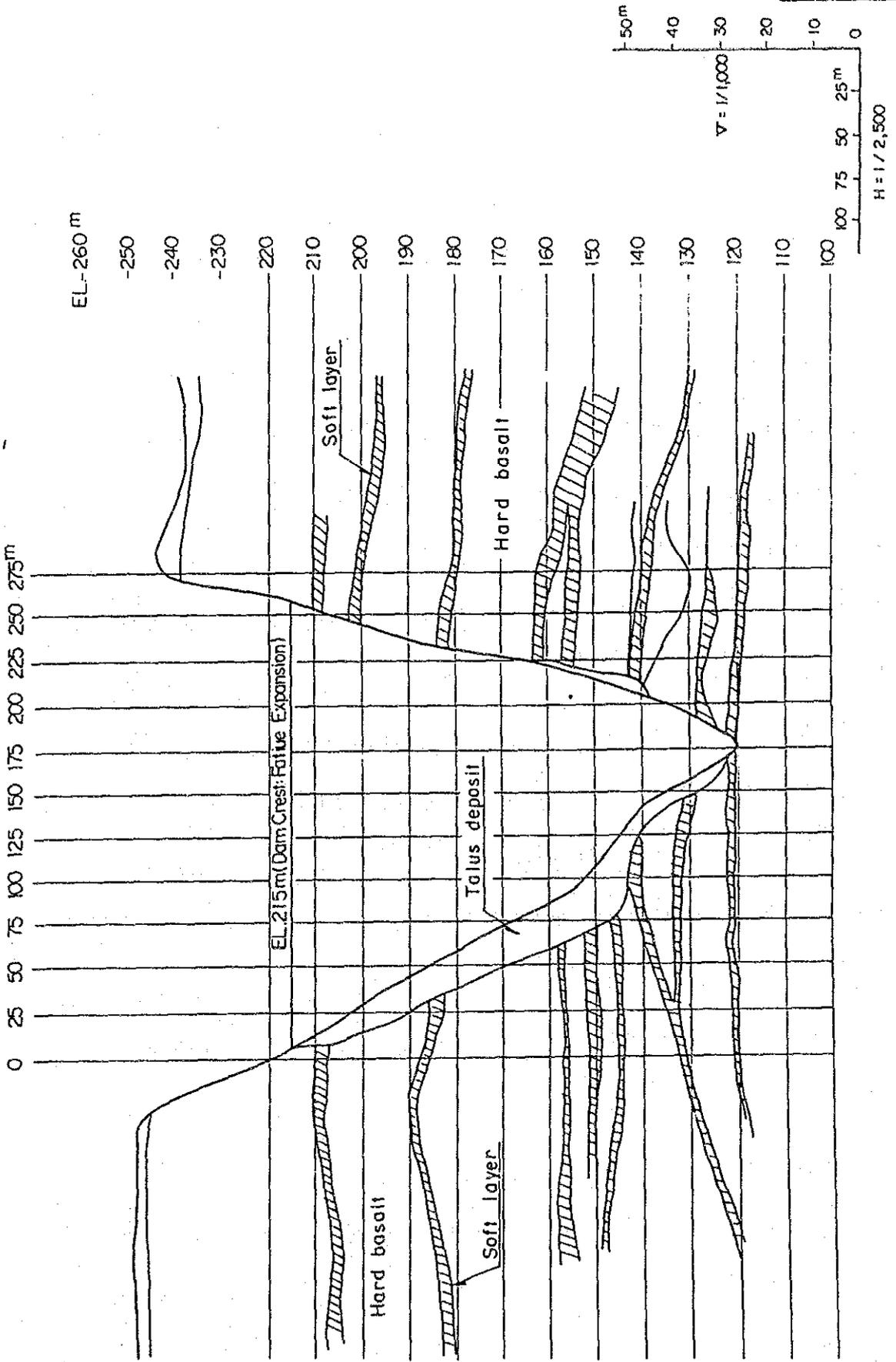
最小安全率における円形スベリ面  
 (拡張計画、ダム標高 215.0m、右岸側)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY



最小安全率における円形スベリ面  
(主コフファーダム)

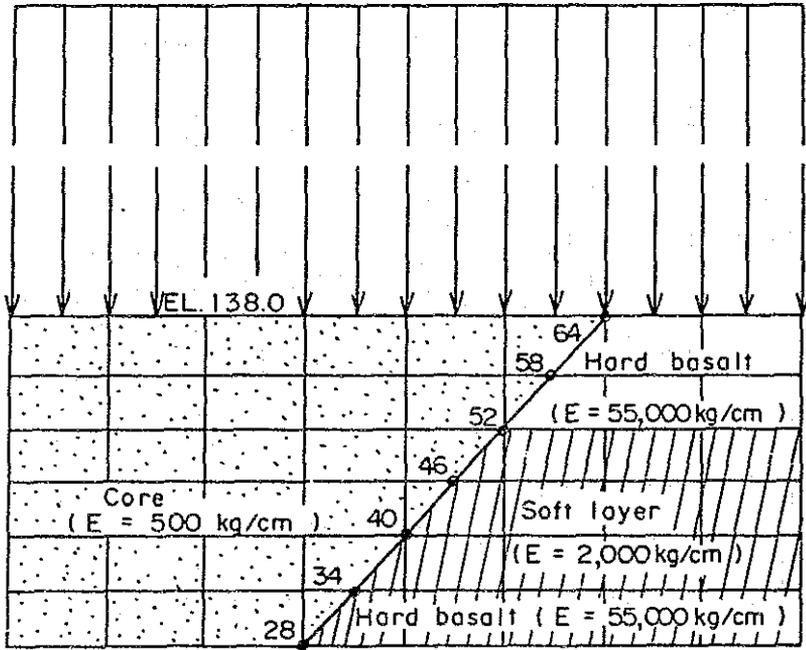




ダムサイト地質断面図

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

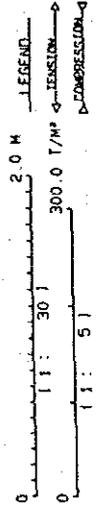
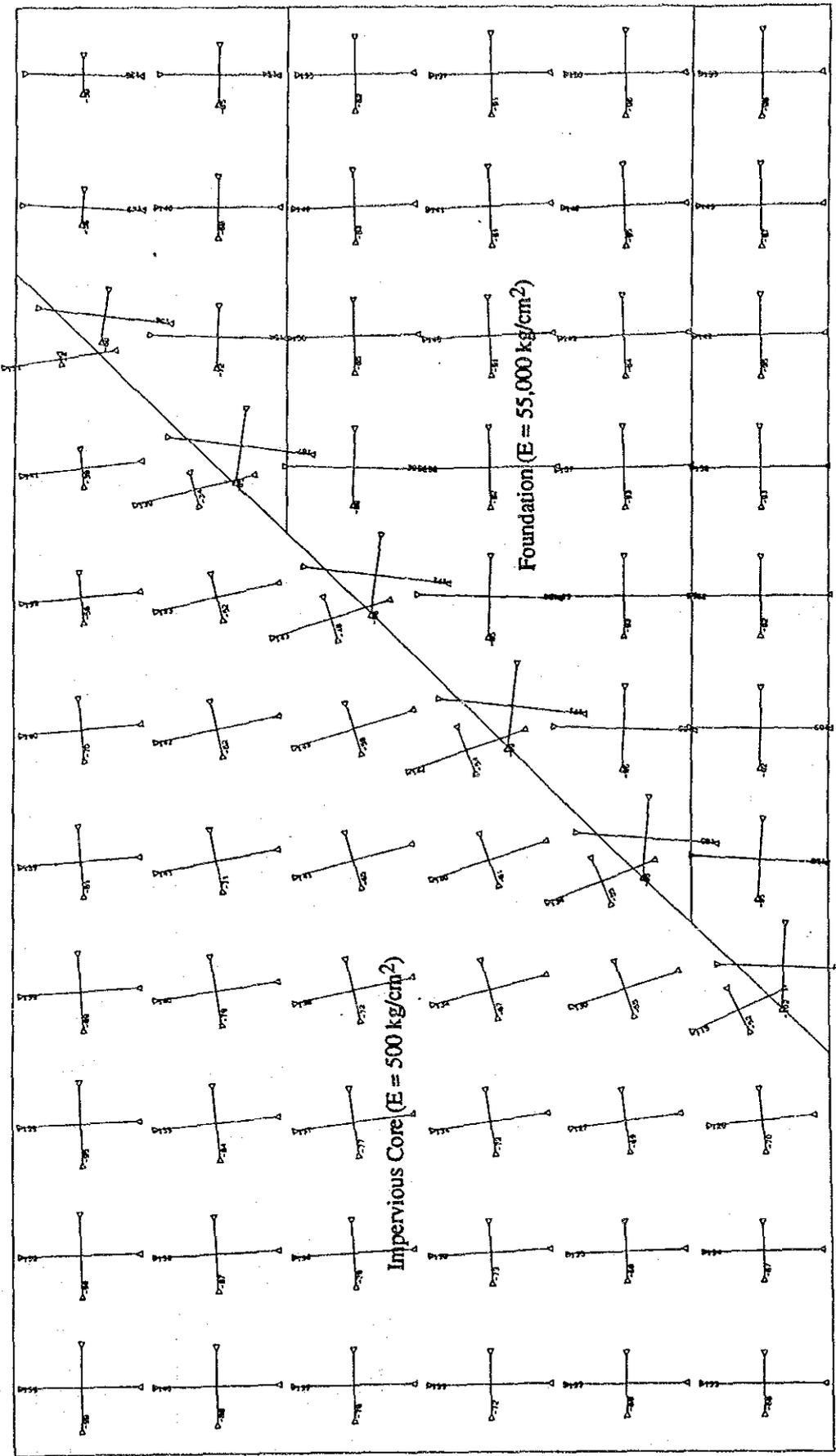
Dam Crest (EL. 215.0 m)



Depth from dam crest	
77	m
78	m
79	m
80	m
81	m
82	m

解析モデル

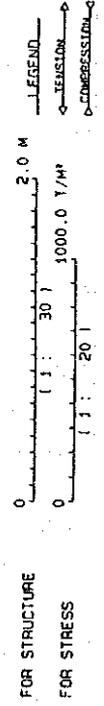
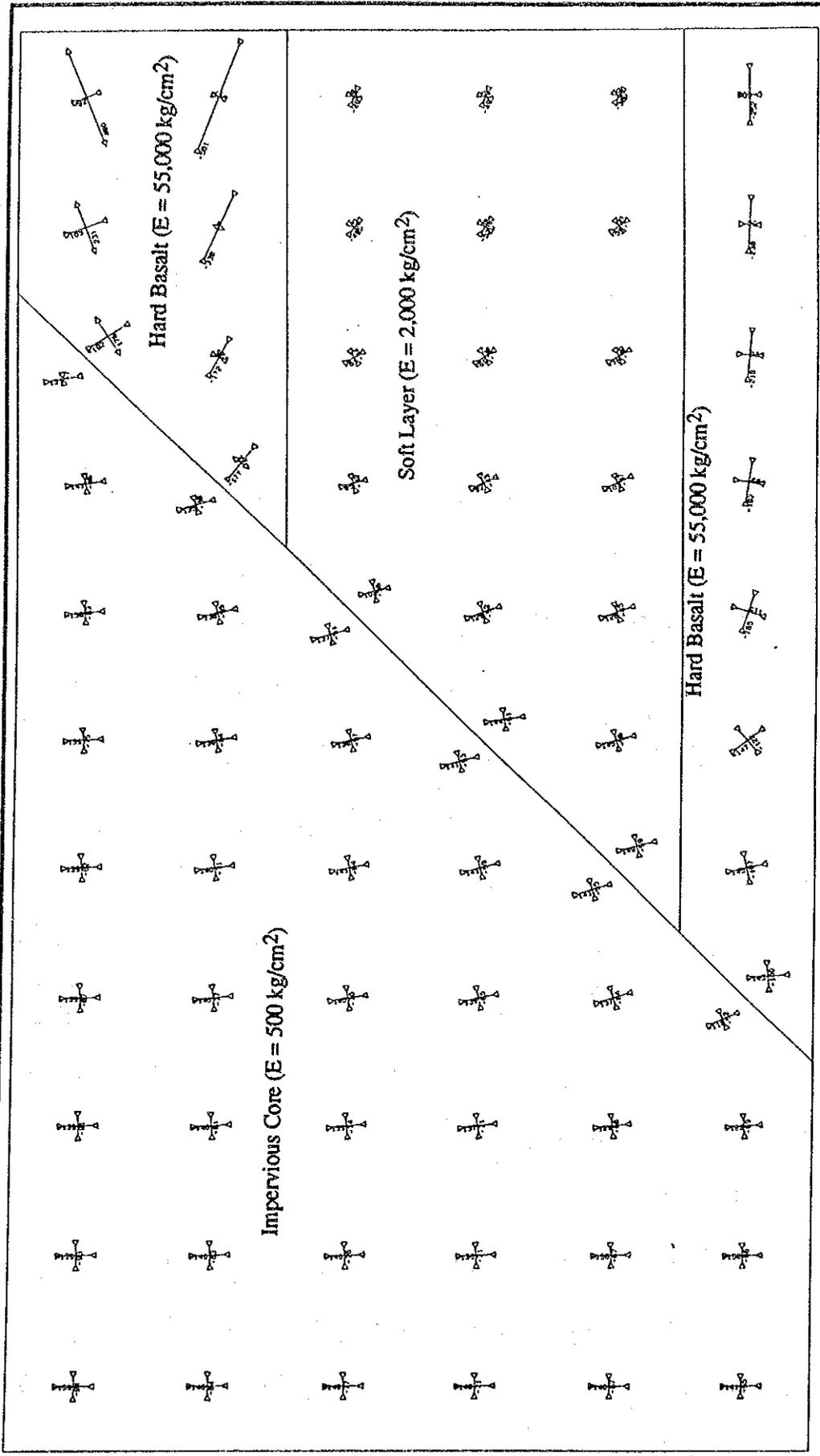
GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY



FOR STRUCTURE  
FOR STRESS

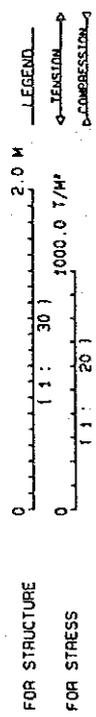
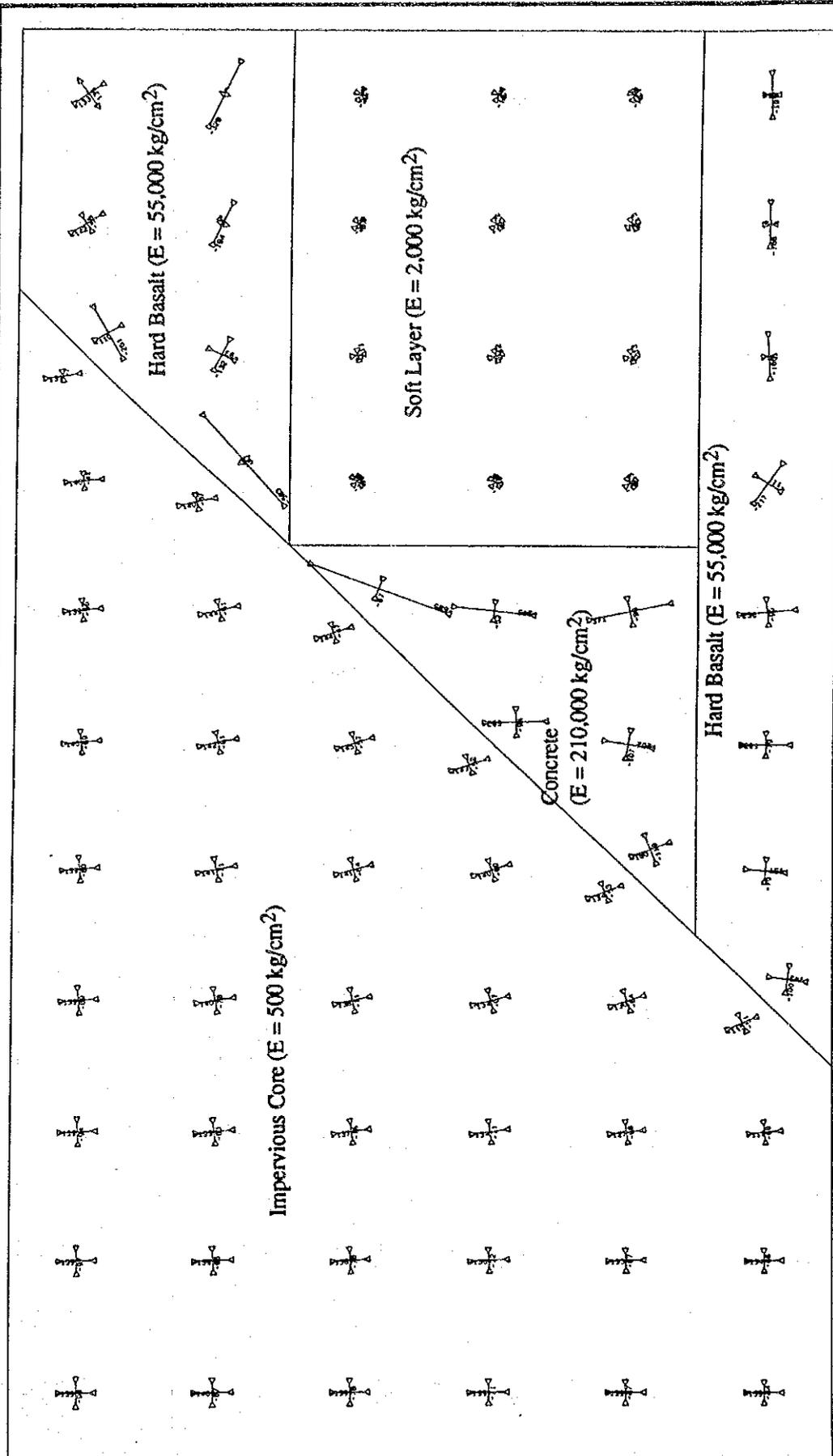
応力解析結果 (ケース (i))

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY



応力解析結果 (ケース (ii))

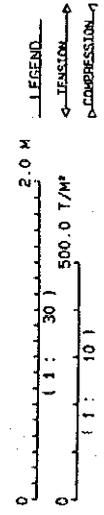
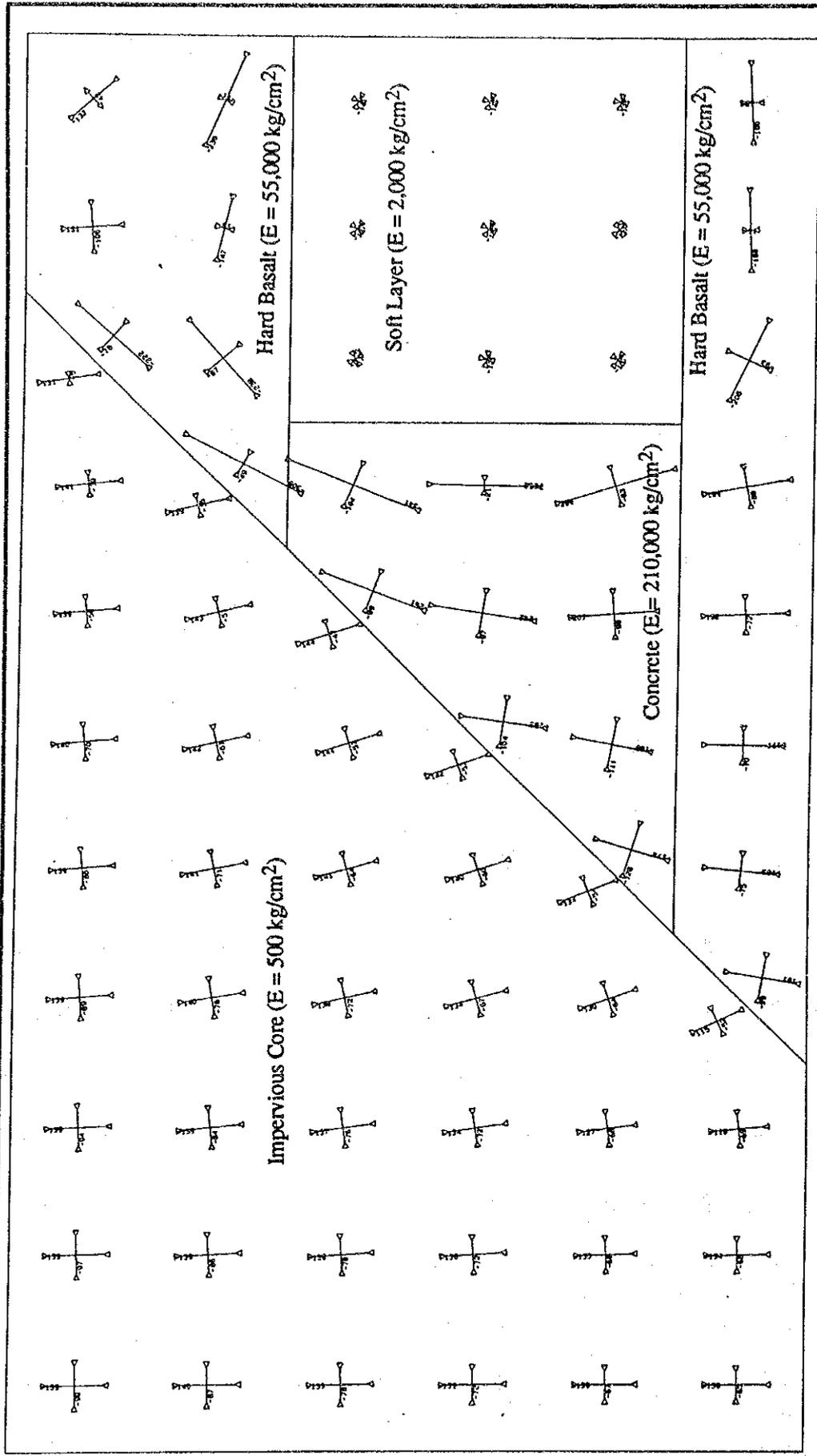
GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY



応力解析結果 (ケース (A))

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

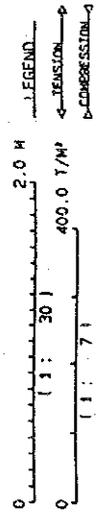
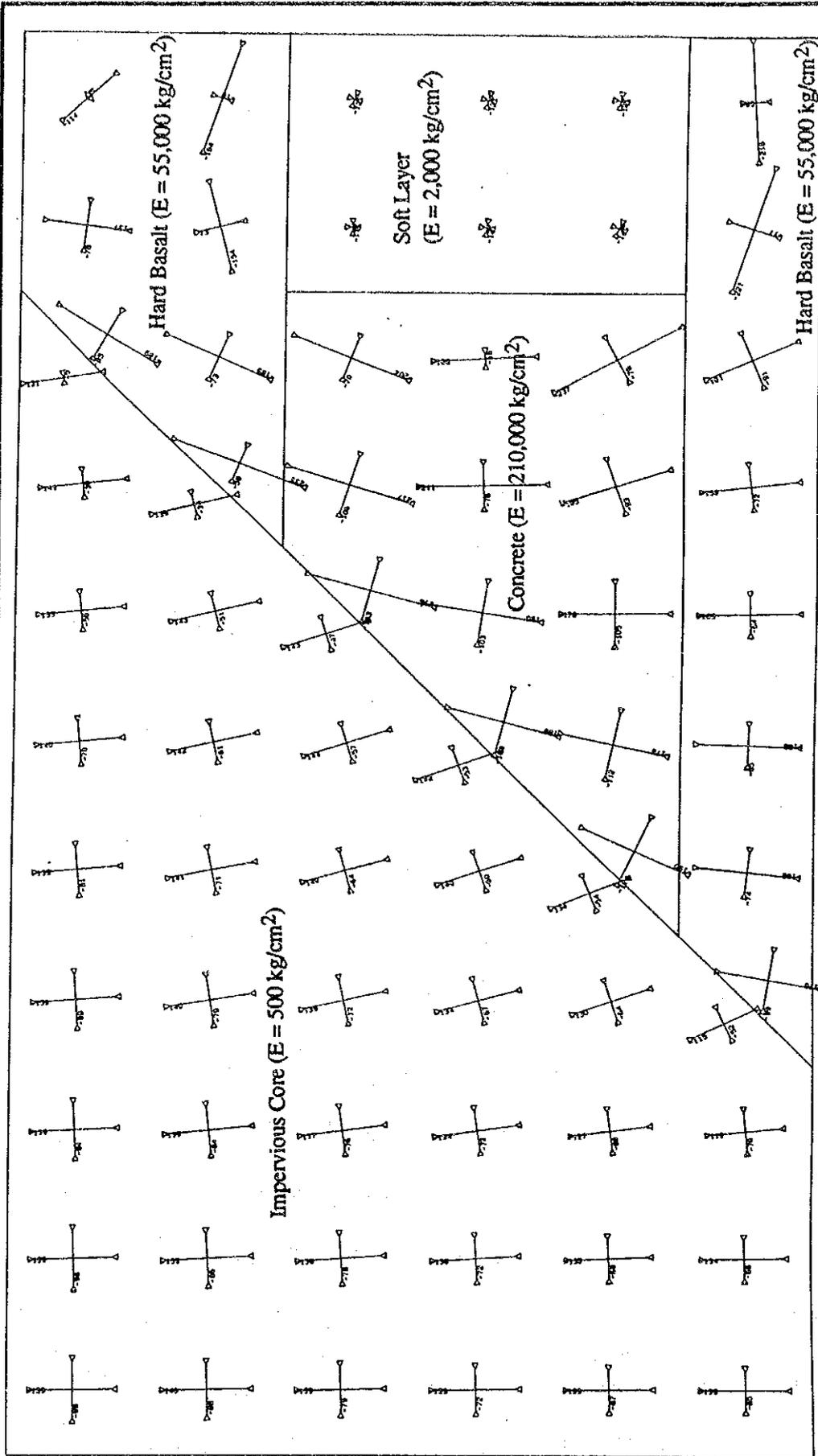


FOR STRUCTURE  
FOR STRESS

応力解析結果 (ケース (B))

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

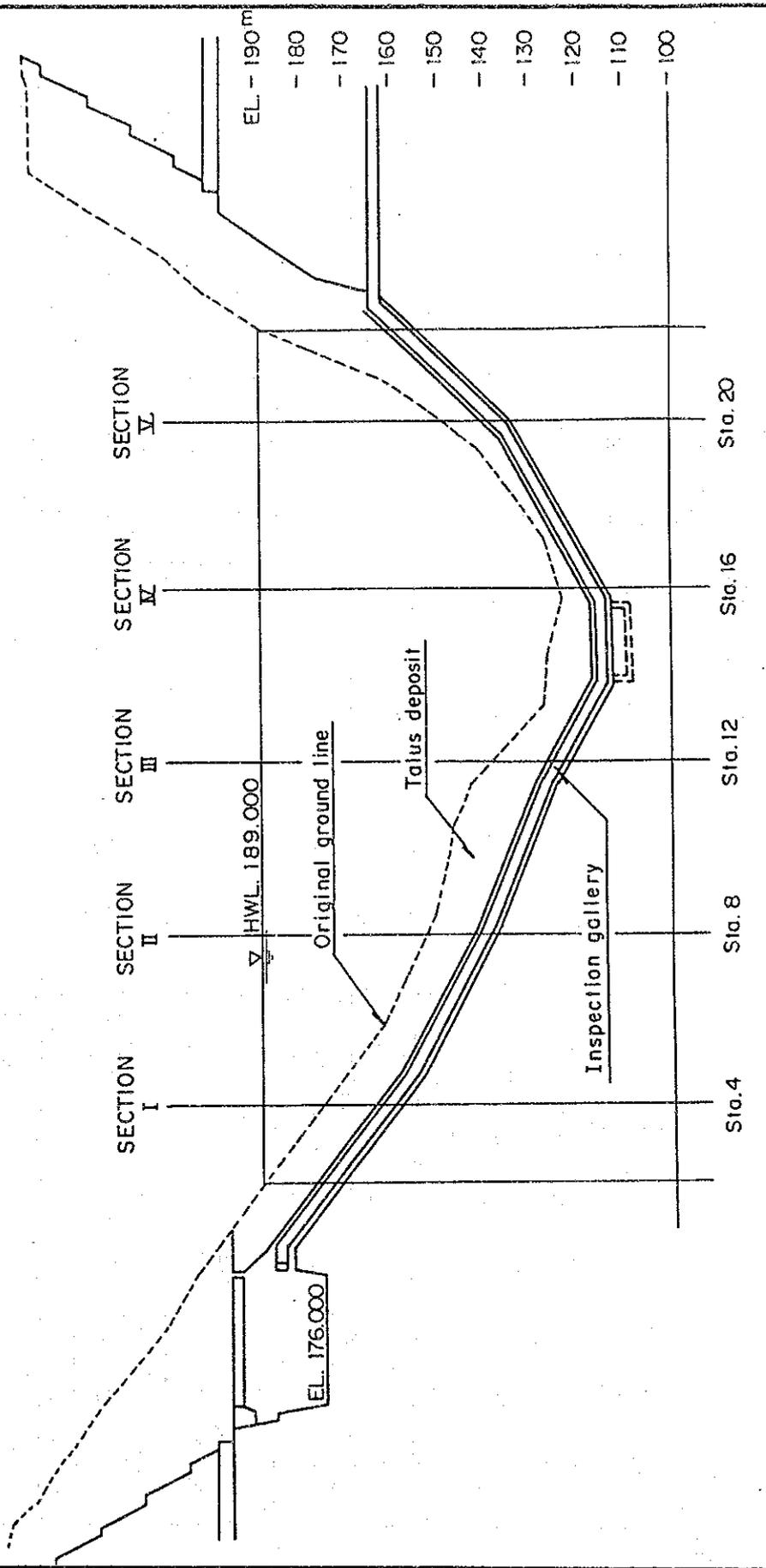
JAPAN INTERNATIONAL COOPERATION AGENCY



応力解析結果 (ケース (C))

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY





浸透流解析断面図

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

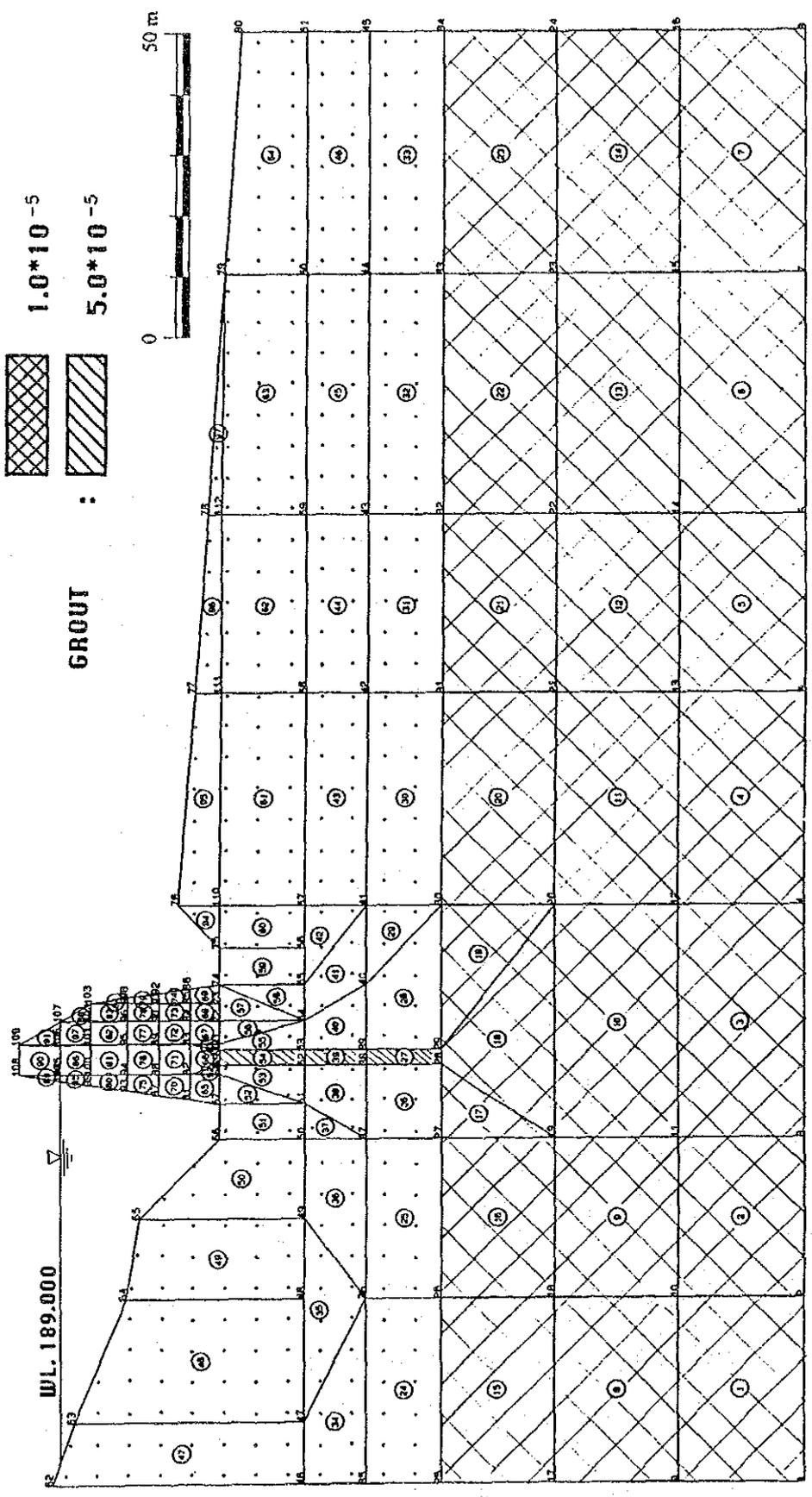
**MATERIAL**

**PERMERBILITY COEFFICIENT (cm/sec)**

**CORE** :  $1.0 \times 10^{-5}$  (Horizontal)  
 $1.0 \times 10^{-6}$  (Vertical)

**FOUNDATION** :  $1.0 \times 10^{-4}$   
 $1.0 \times 10^{-5}$

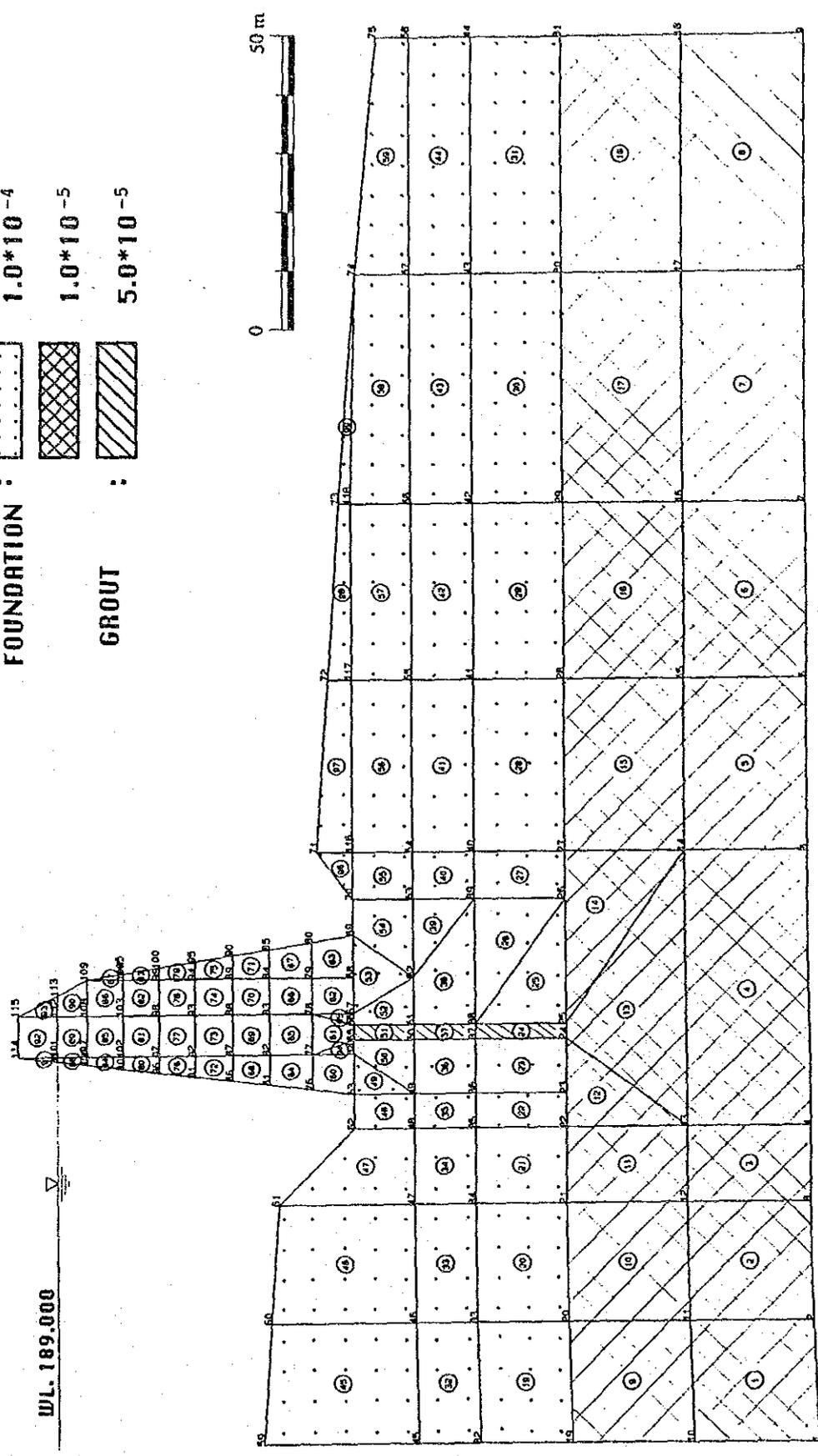
**GROUT** :  $5.0 \times 10^{-5}$



浸透流解析モデル (断面No. I)

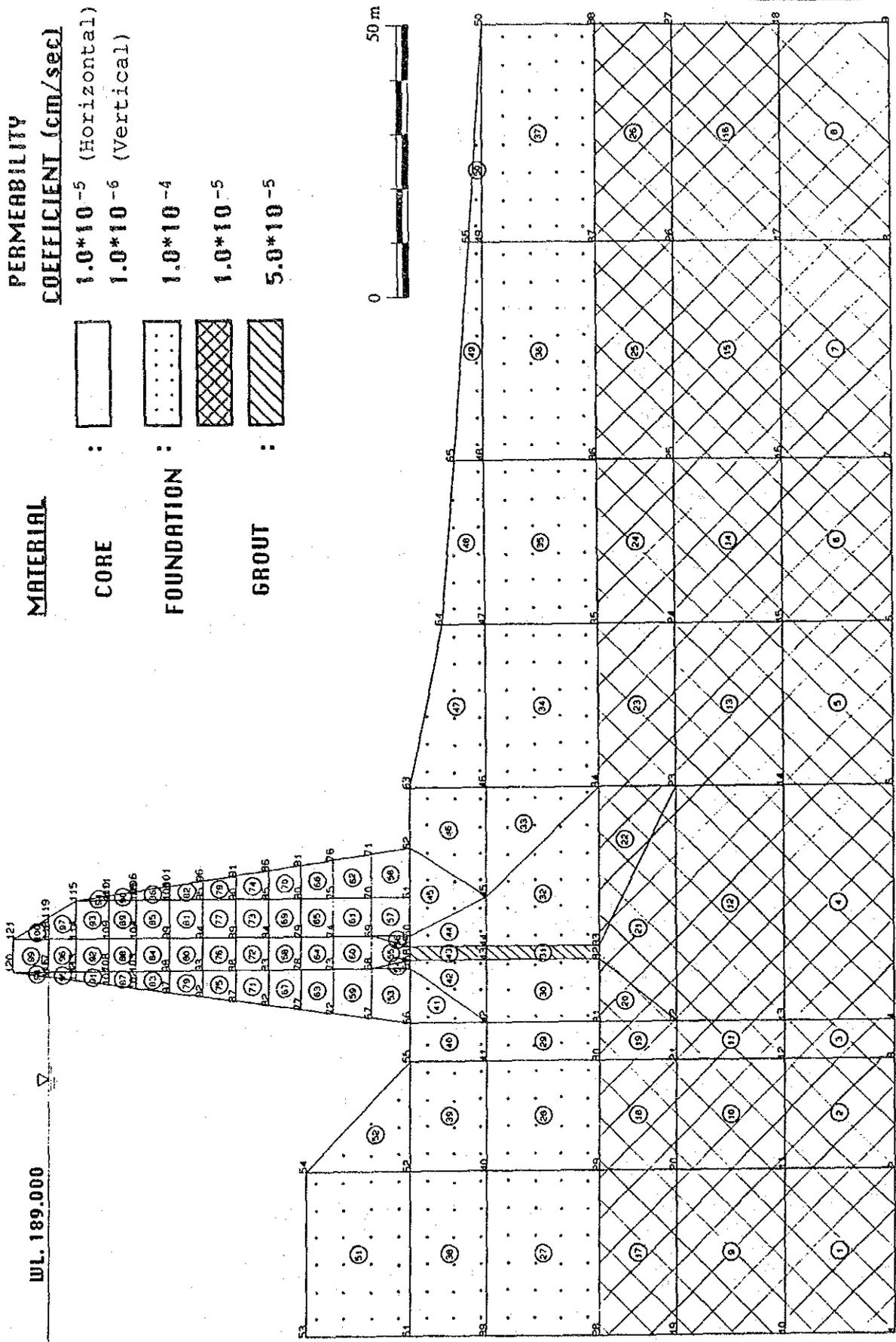
GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

MATERIAL	PERMEABILITY COEFFICIENT (cm/sec)
CORE	1.0*10 <sup>-5</sup> (Horizontal)
	1.0*10 <sup>-6</sup> (Vertical)
FOUNDATION	1.0*10 <sup>-4</sup>
	1.0*10 <sup>-5</sup>
GROUT	1.0*10 <sup>-4</sup>
	5.0*10 <sup>-5</sup>



浸透流解析モデル (断面No. II)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

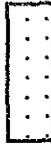


浸透流解析モデル (断面No.Ⅲ)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

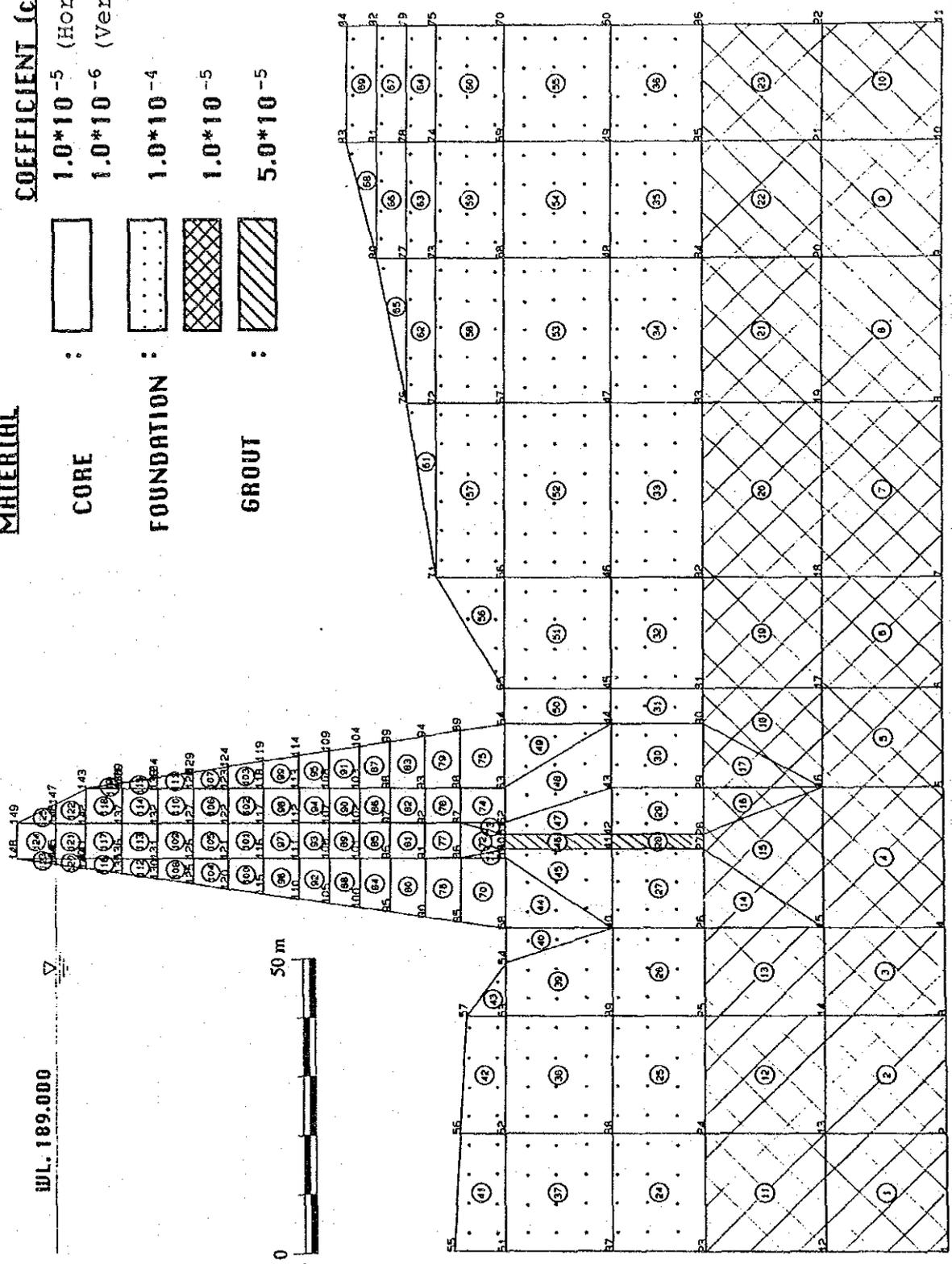
**MATERIAL**

**CORE** :  : **PERMEABILITY COEFFICIENT (cm/sec)**  
 $1.0 \times 10^{-5}$  (Horizontal)  
 $1.0 \times 10^{-6}$  (Vertical)

**FOUNDATION** :  :  $1.0 \times 10^{-4}$

**GROUT** :  :  $1.0 \times 10^{-5}$

 :  $5.0 \times 10^{-5}$



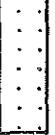
浸透流解析モデル (断面No.IV)

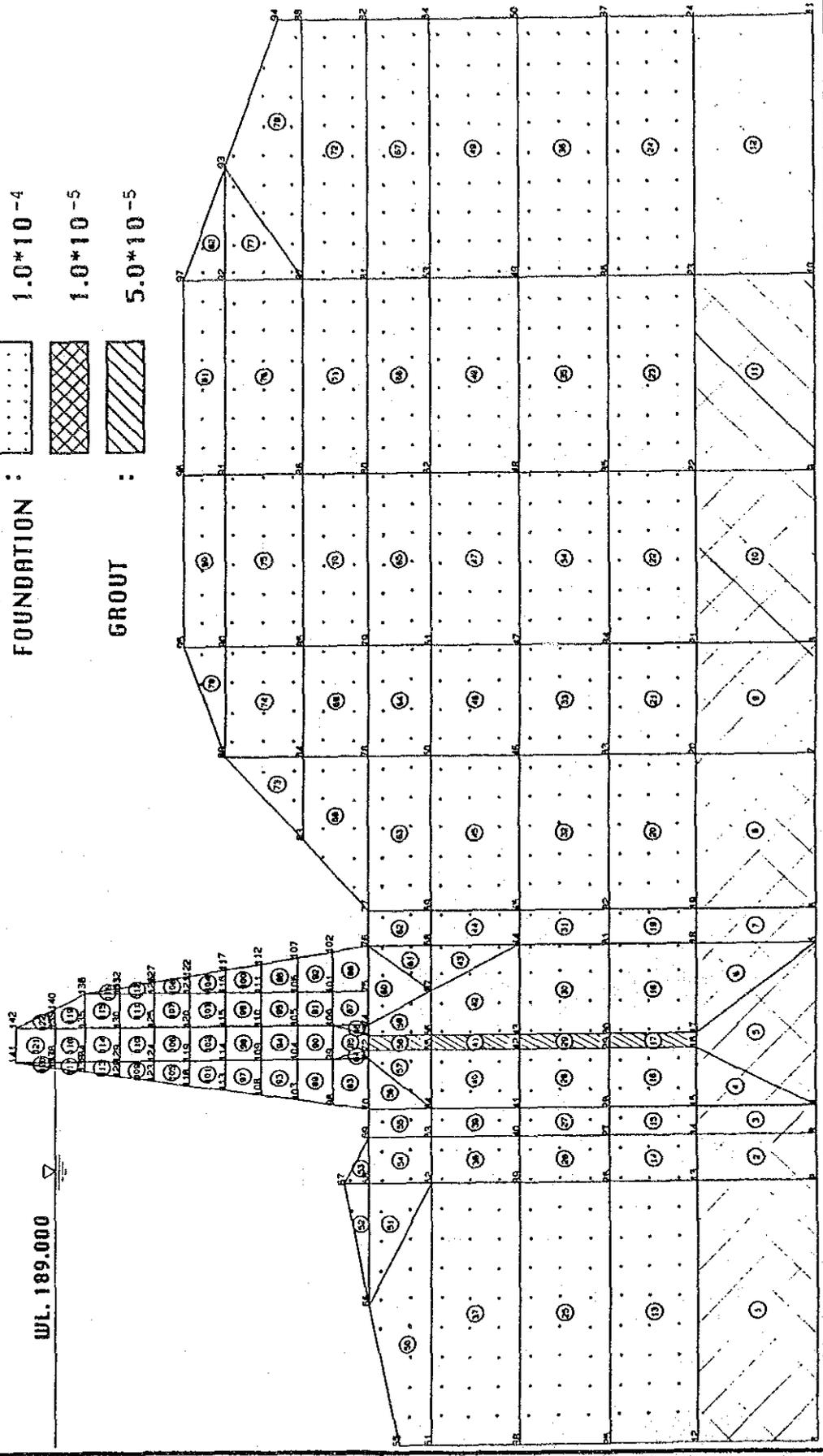
GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

PERMEABILITY

COEFFICIENT (cm/sec)  
 1.0\*10<sup>-5</sup> (Horizontal)  
 1.0\*10<sup>-6</sup> (Vertical)

MATERIAL

- CORE :  : 1.0\*10<sup>-5</sup> (Horizontal)  
 1.0\*10<sup>-6</sup> (Vertical)
- FOUNDATION :  : 1.0\*10<sup>-4</sup>  
 : 1.0\*10<sup>-5</sup>
- GROUT :  : 5.0\*10<sup>-5</sup>

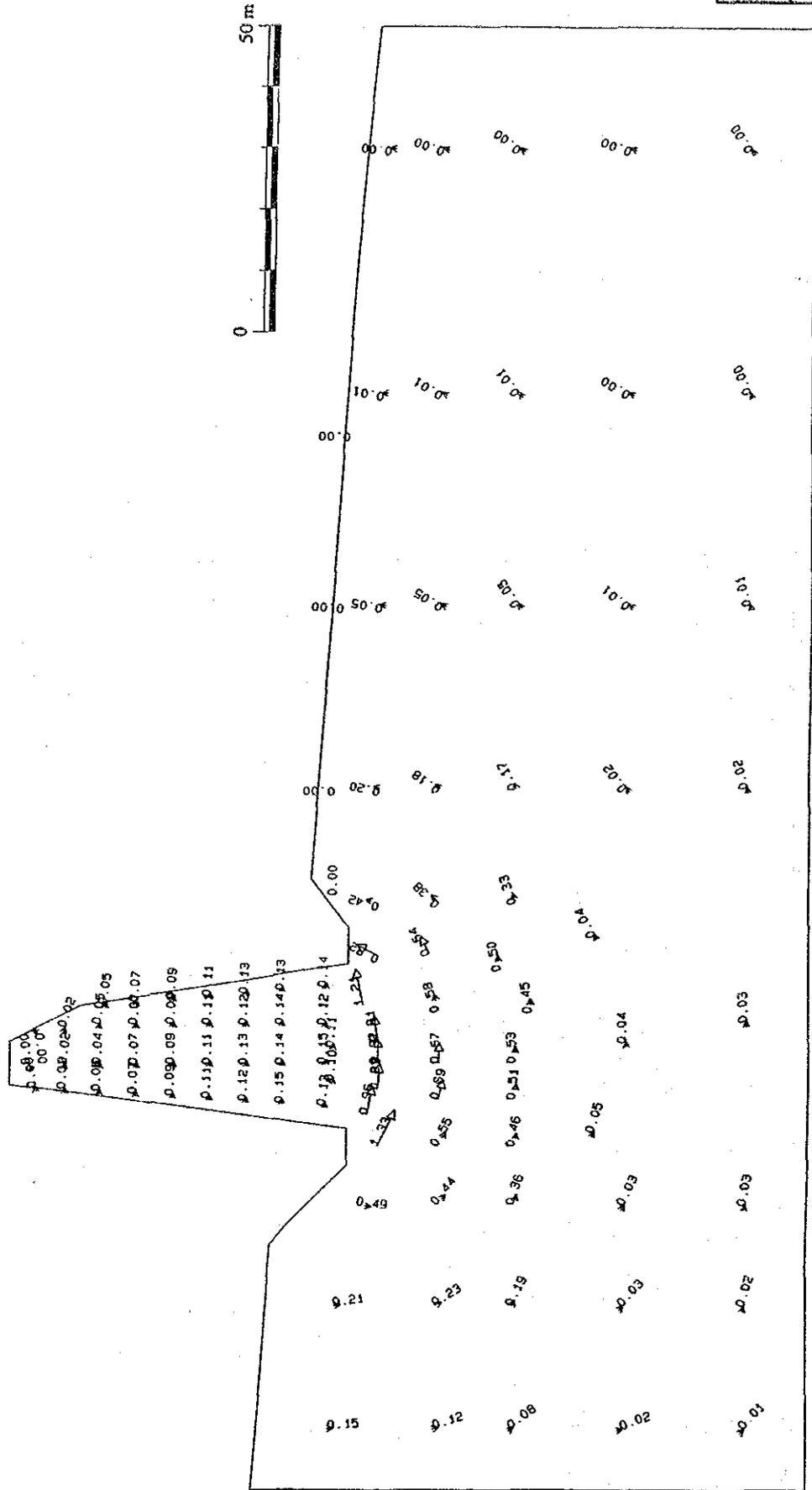


浸透流解析モデル (断面No.V)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY



Velocity of Element  
Unit : 10 cm/day

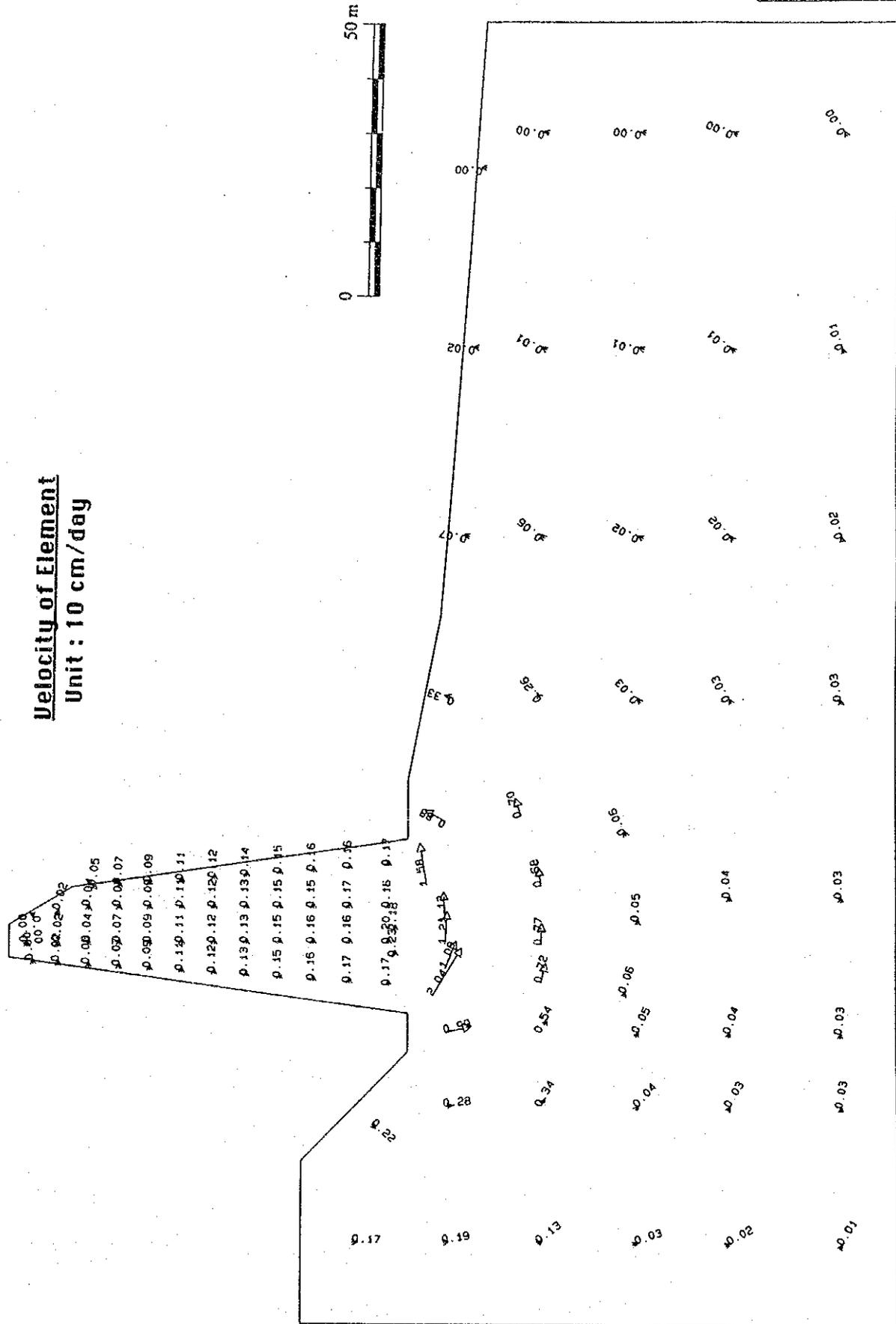


浸透流解析結果 (断面No. II)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

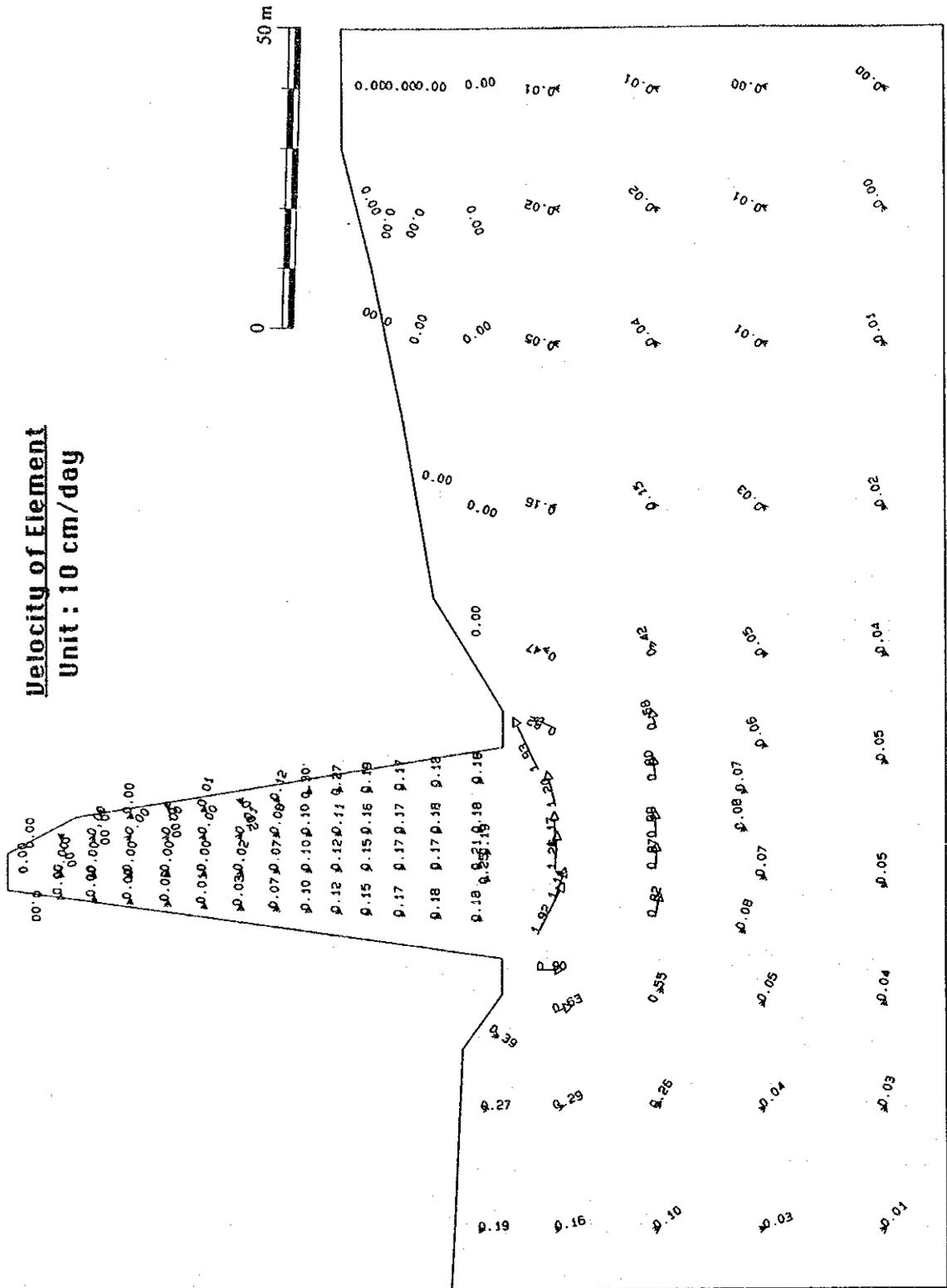
Velocity of Element  
Unit : 10 cm/day



浸透流解析結果 (断面No.Ⅲ)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

**Velocity of Element**  
Unit : 10 cm/day

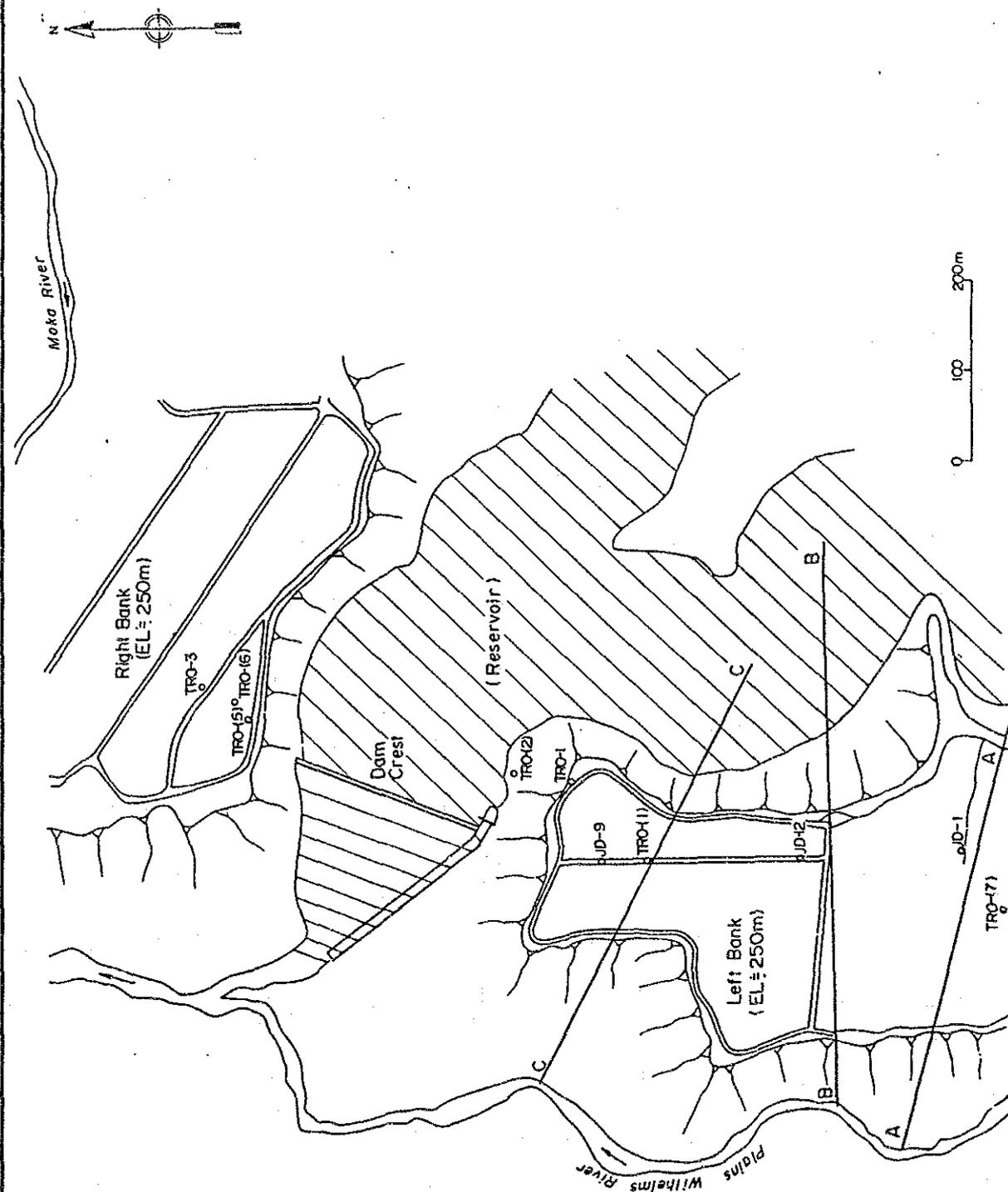


浸透流解析結果 (断面No.IV)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY



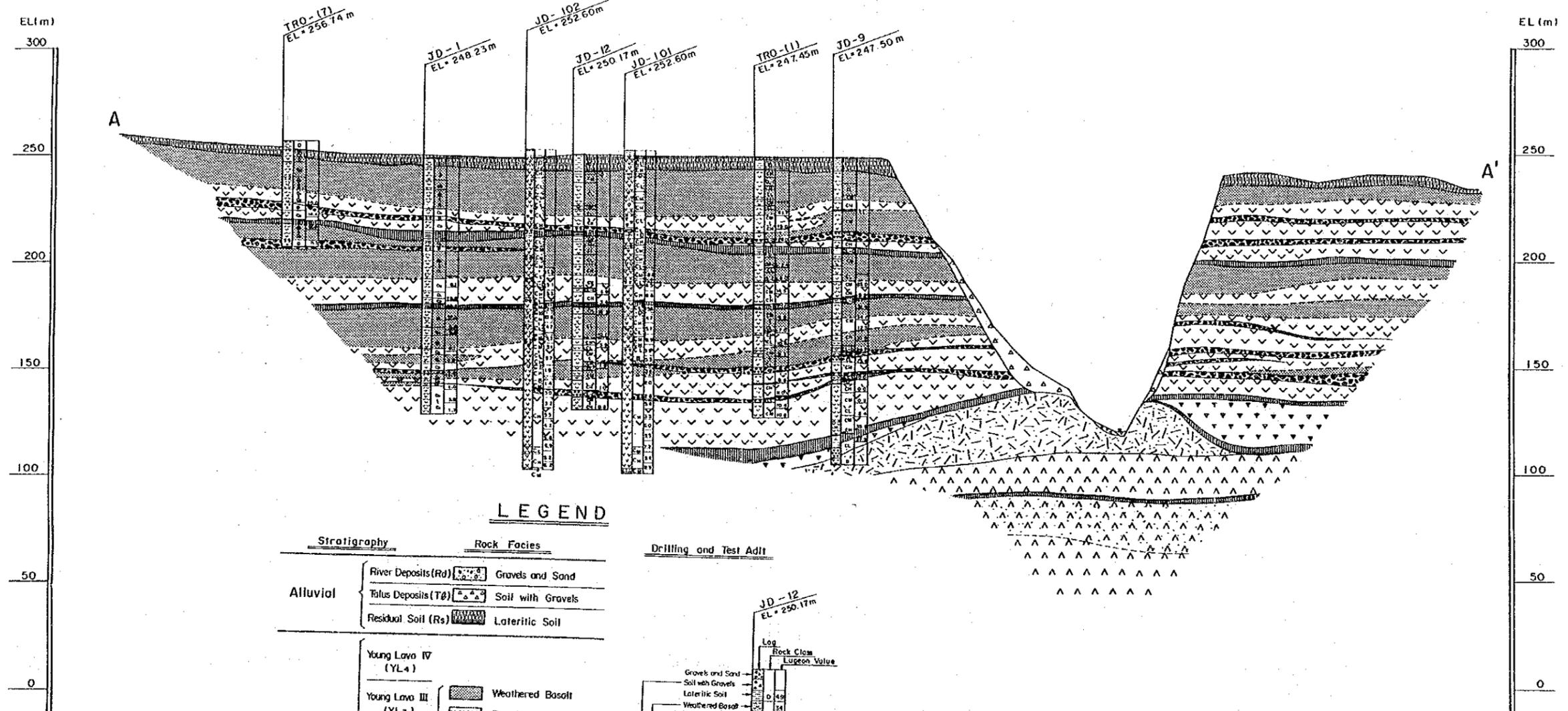




ダムサイト全体図

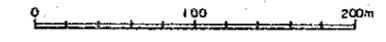
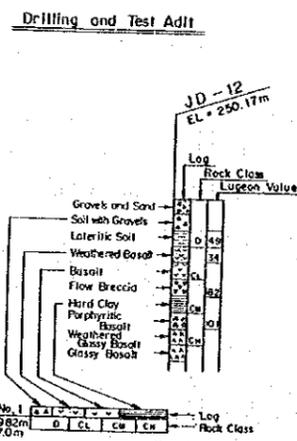
GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY





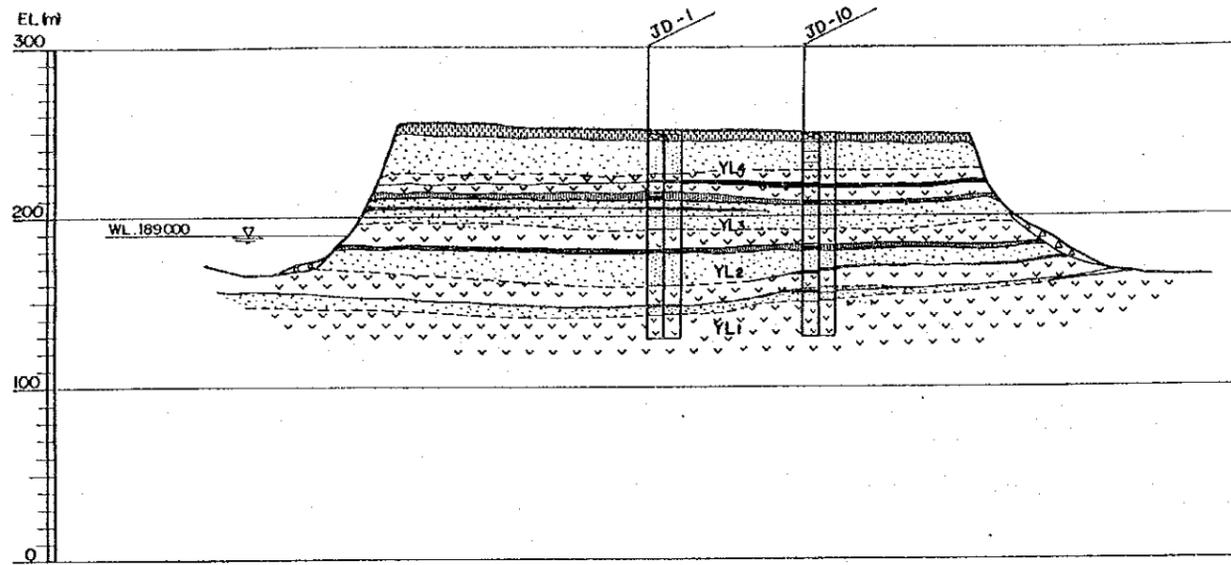
LEGEND

Stratigraphy		Rock Facies	
Alluvial	River Deposits (Rd)	Gravels and Sand	
	Talus Deposits (Tθ)	Soil with Gravels	
	Residual Soil (Rs)	Lateritic Soil	
Young Lava	Young Lava IV (YL4)	Weathered Basalt	
	Young Lava III (YL3)	Basalt	
	Young Lava II (YL2)	Flow Breccia	
		Hard Clay	
	Young Lava I (YL1)		
Pyroclastic Flow (YL0)	Pyroclastic Flow		
Old Lava	Porphyritic Basalt (OL3)	Porphyritic Basalt	
	Glossy Basalt II (OL2)	Weathered Glossy Basalt	
		Glossy Basalt	
Glossy Basalt I (OL1)	Hard Clay / Flow Breccia		

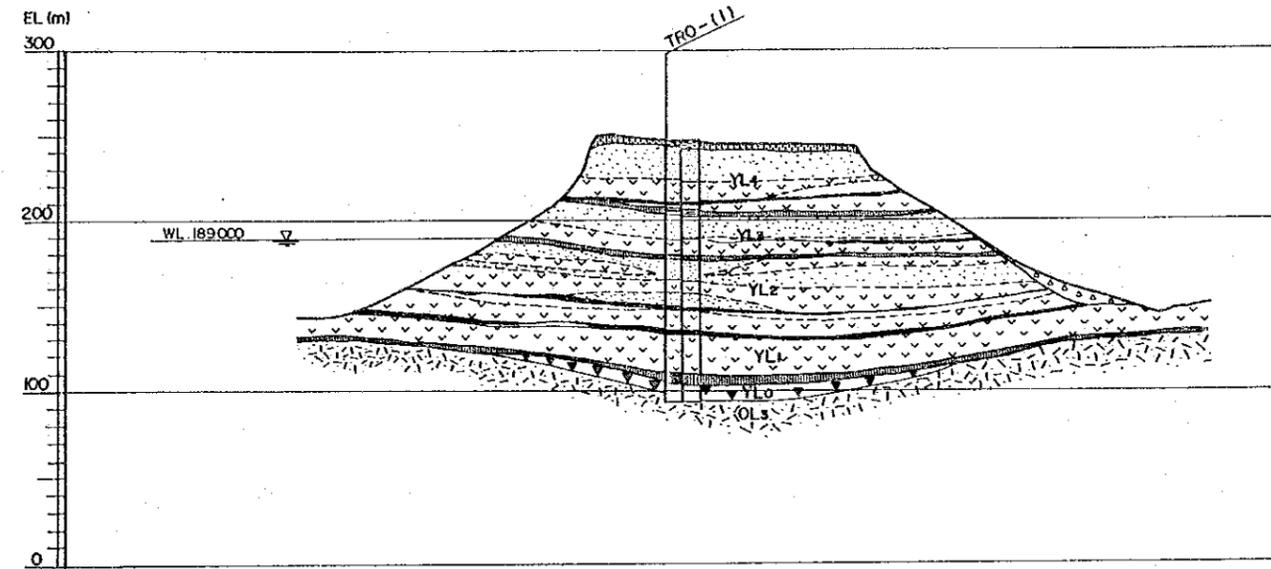


ダム軸地質縦断面図

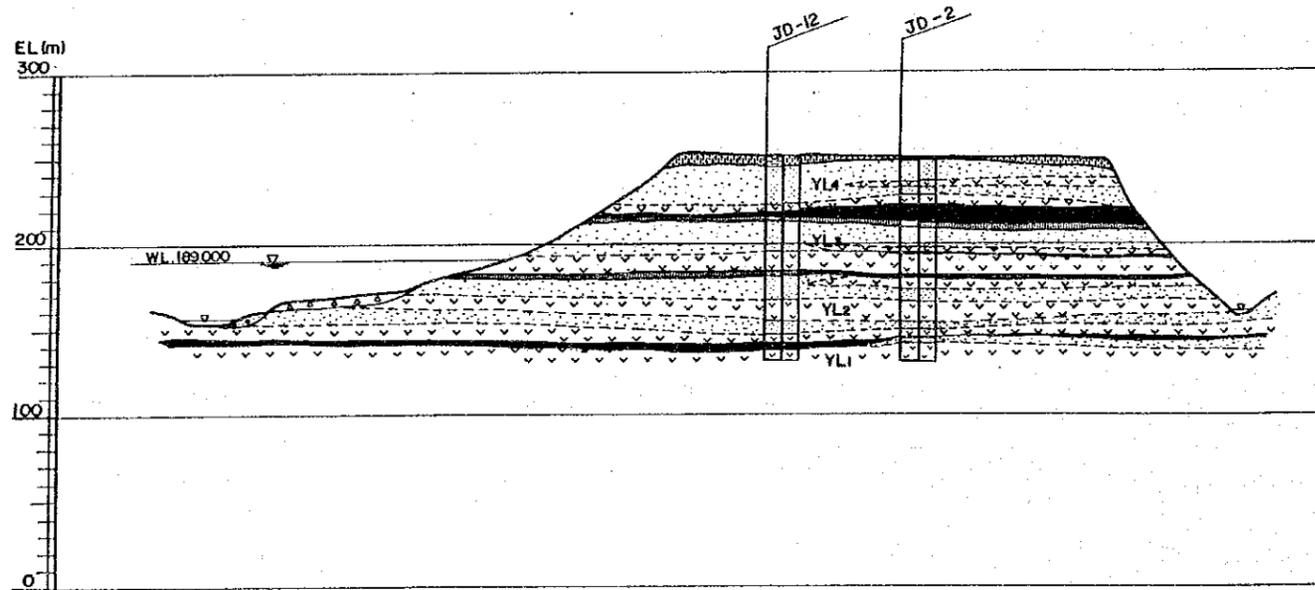
SECTION A-A



SECTION C-C



SECTION B-B



LEGEND

Alluvial	River Deposits		Gravels and Sand
	Talus Deposits		Soil with Gravels
	Residual Soil		Lateritic Soil
Young Lava	Young Lava IV (YL4)		Weathered Basalt
	Young Lava III (YL3)		Basalt
	Young Lava II (YL2)		Flow Breccia
	Young Lava I (YL1)		Hard Clay
Old Lava	Pyroclastic Flow (YL0)		Pyroclastic Flow
	Porphyritic Basalt (OL3)		Porphyritic Basalt

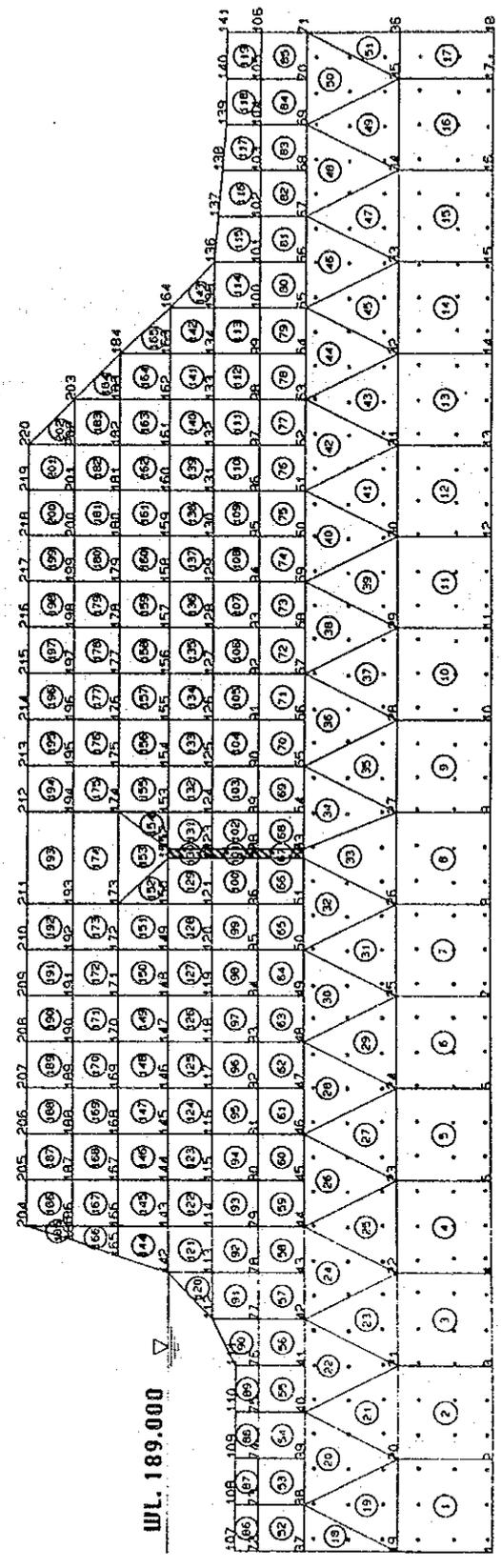
ダムサイト左岸側地質断面図

GOVERNMENT OF MAURITIUS  
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JAPAN INTERNATIONAL COOPERATION AGENCY



**MATERIAL** PERMEABILITY  
COEFFICIENT (cm/sec)

**FOUNDATOIN :**  $1.0 \times 10^{-4}$   
 $1.0 \times 10^{-5}$   
**GROUT :**  $7.0 \times 10^{-5}$

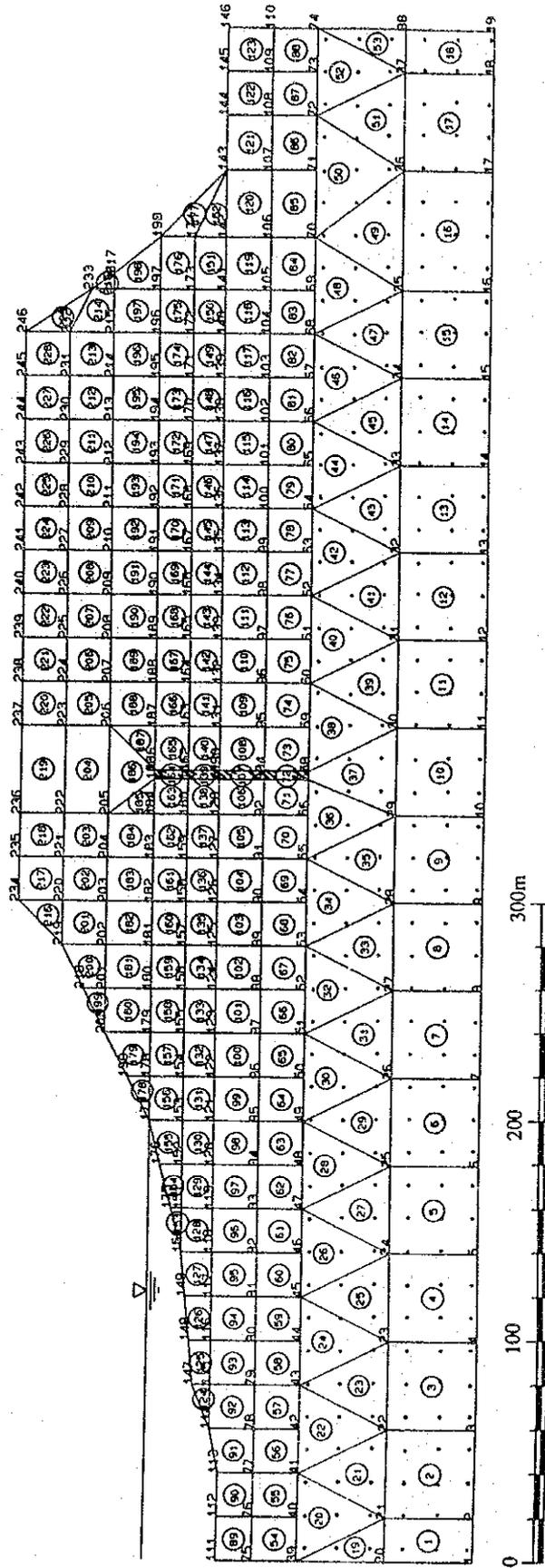


浸透流解析モデル (左岸、断面A-A)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

**MATERIAL** PERMEABILITY  
COEFFICIENT (cm/sec)

- FOUNDATION :**
-   $1.0 \times 10^{-4}$
  -   $1.0 \times 10^{-5}$
  - GROUT :**
  -   $7.0 \times 10^{-5}$



浸透流解析モデル (左岸、断面B-B)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY

**PERMEABILITY COEFFICIENT (cm/sec)**

**MATERIAL**

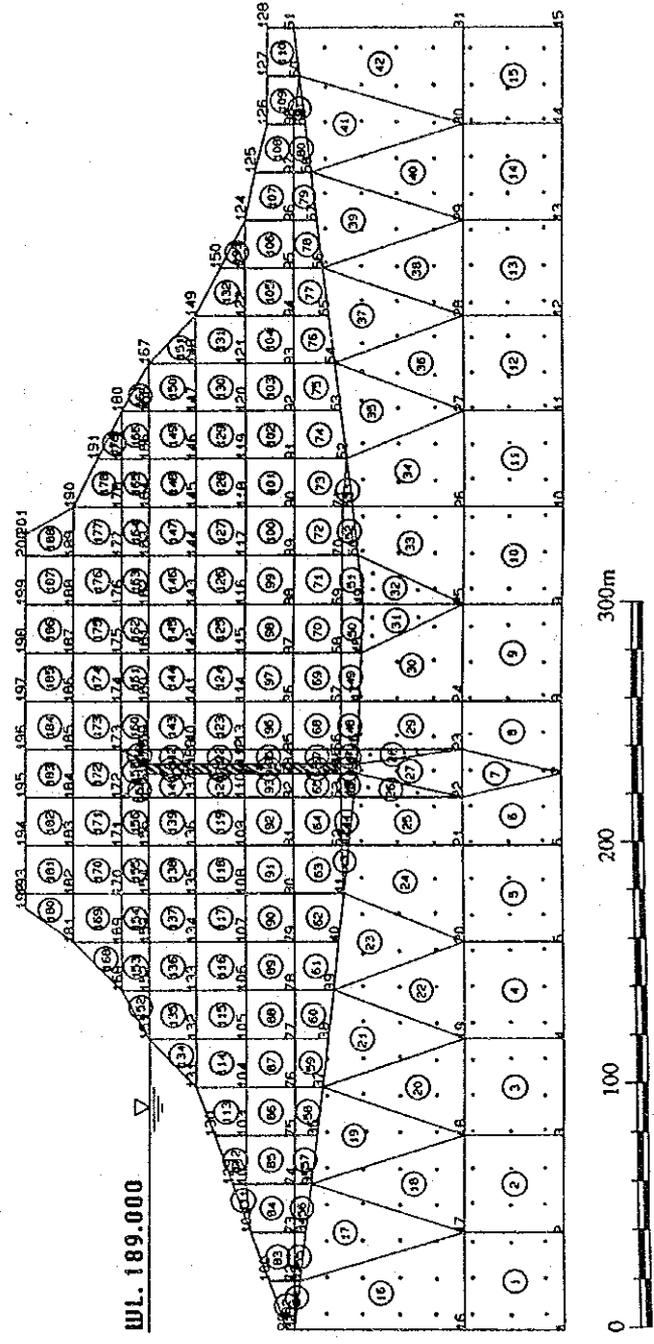
**FOUNDATOIN :**

**GROUT :**

$1.0 \times 10^{-4}$

$1.0 \times 10^{-5}$

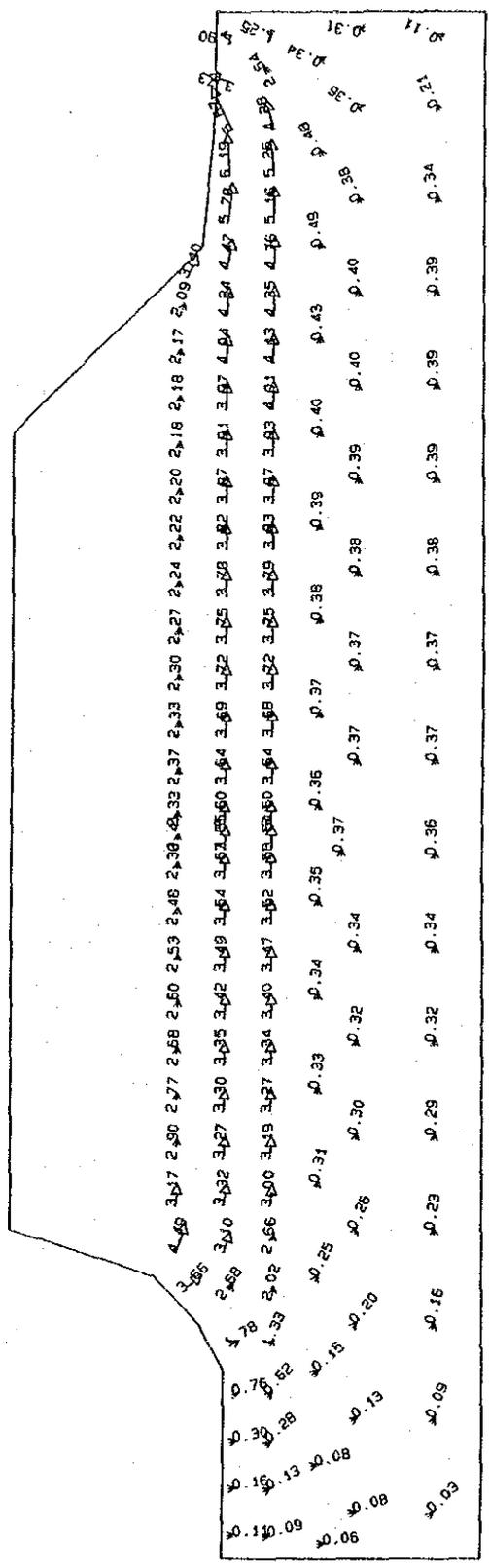
$7.0 \times 10^{-5}$



浸透流解析モデル (左岸、断面C-C)

GOVERNMENT OF MAURITIUS  
 PORT LOUIS WATER SUPPLY PROJECT  
 JAPAN INTERNATIONAL COOPERATION AGENCY

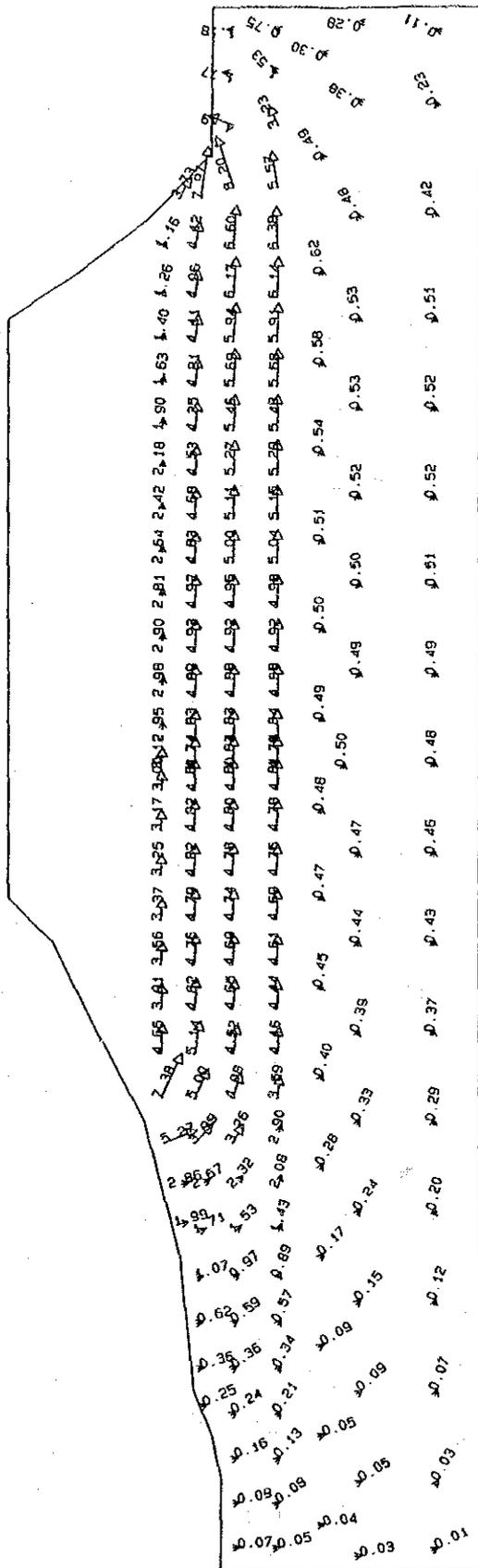
**Velocity of Element**  
Unit : mm/day



浸透流解析結果 (左岸、断面A-A)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY

Velocity of Element  
Unit : mm/day

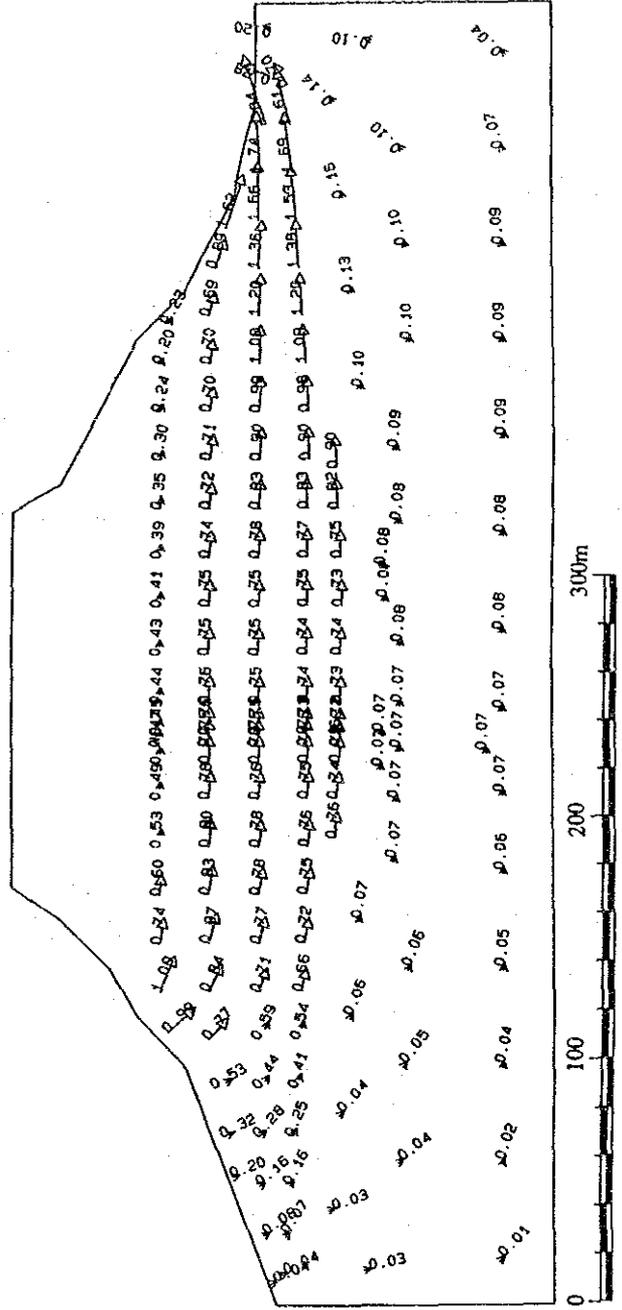


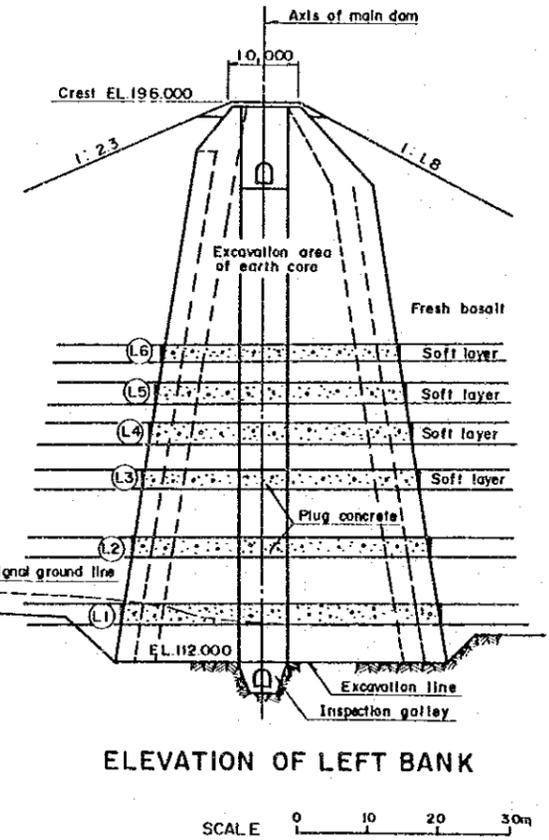
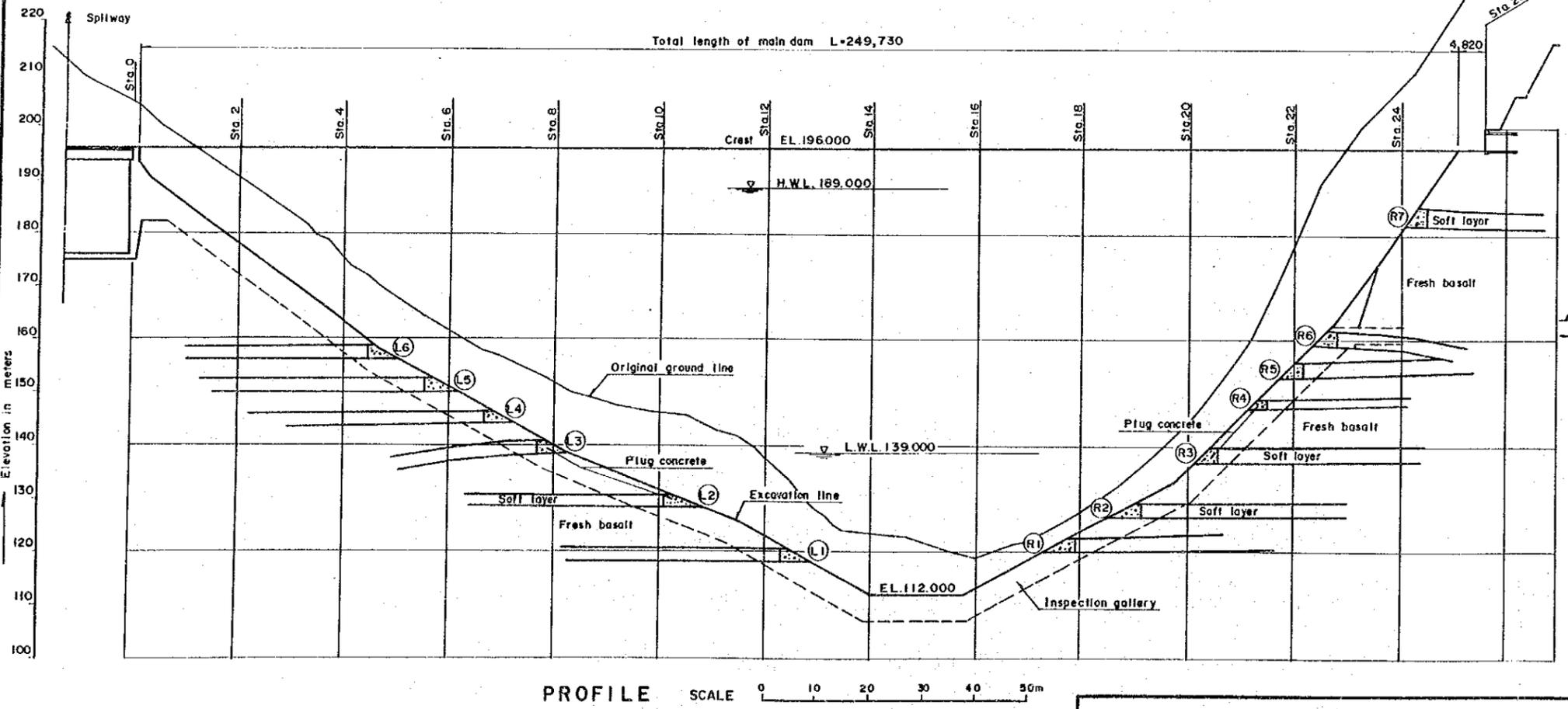
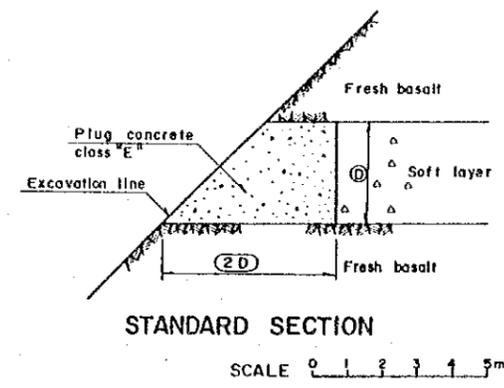
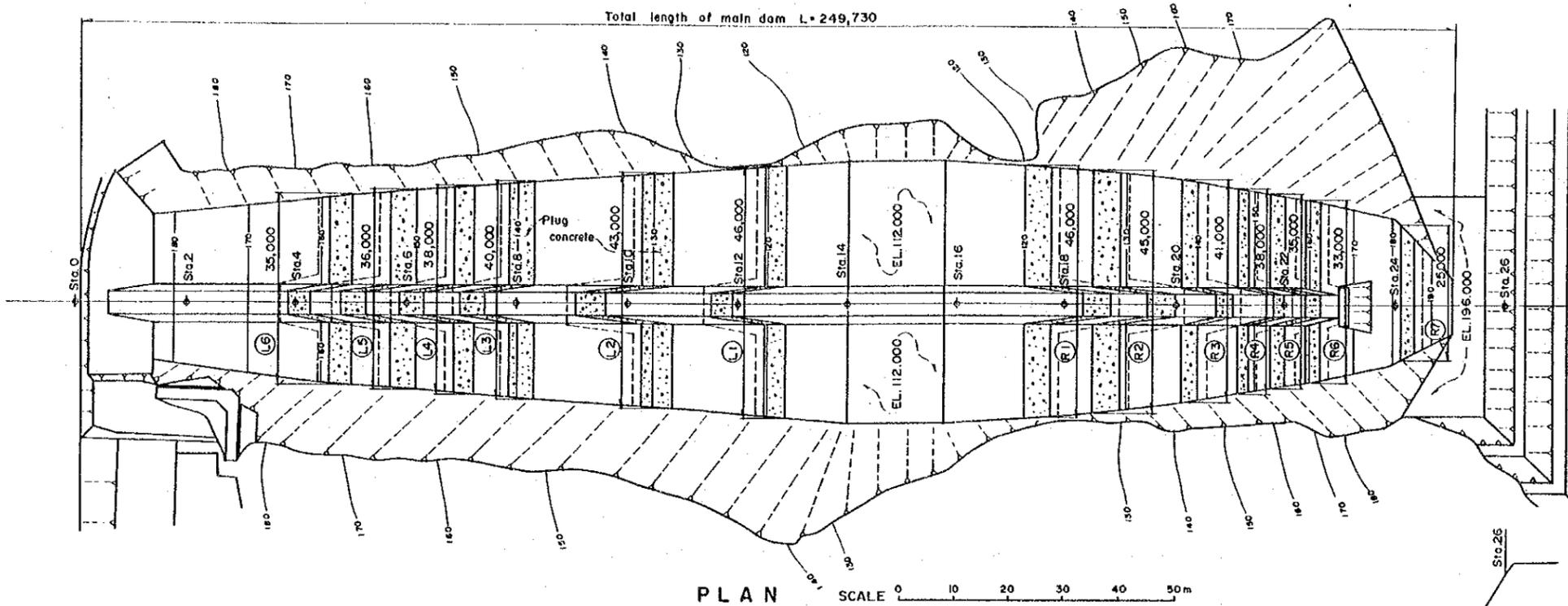
浸透流解析結果 (左岸、断面B-B)

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

**Velocity of Element**  
Unit : cm/day

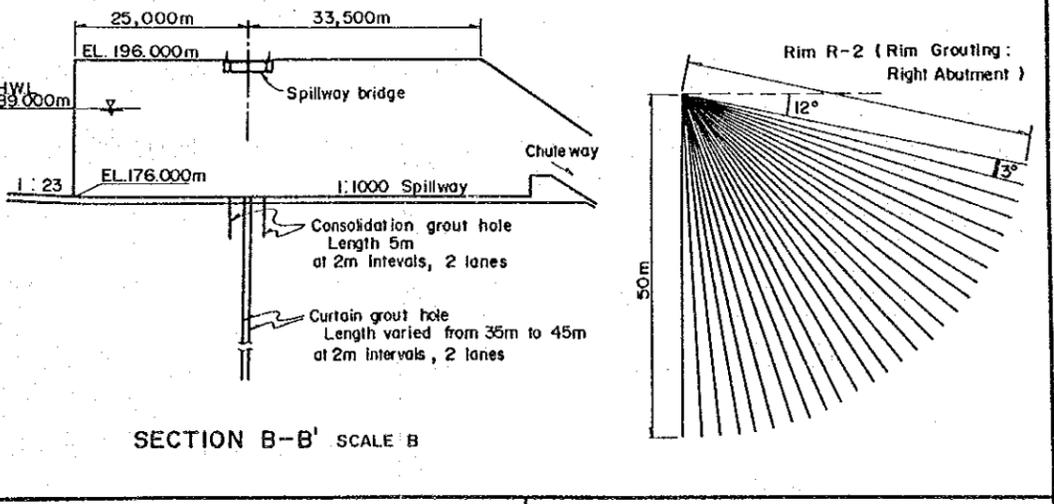
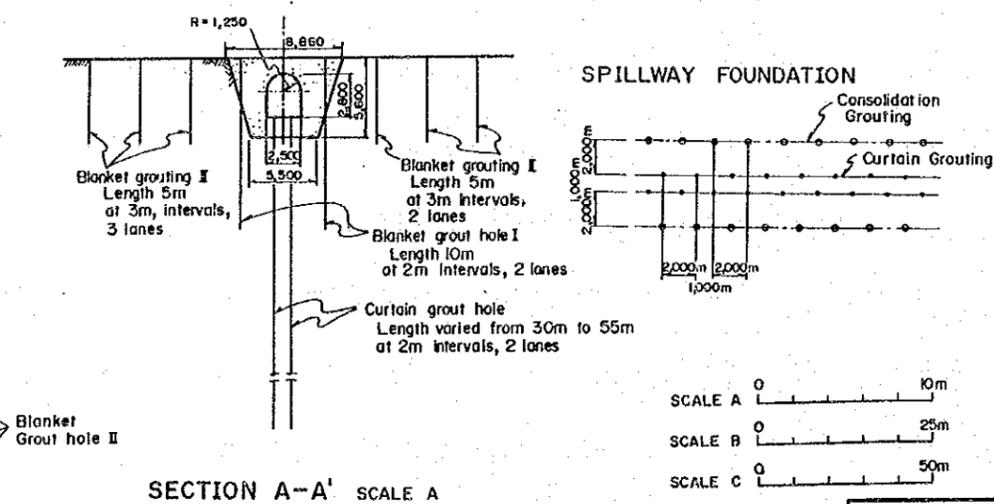
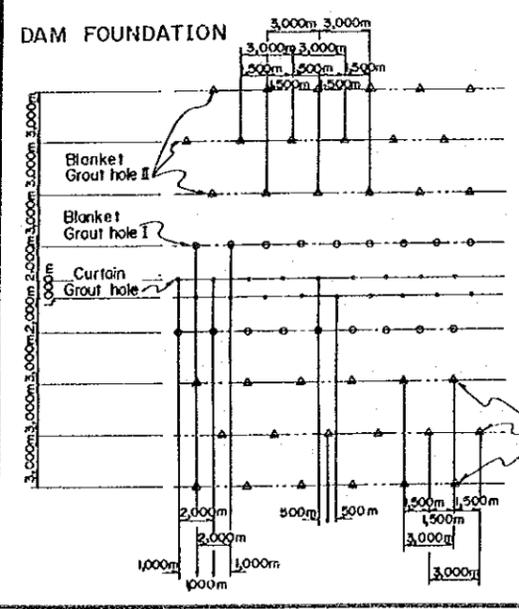
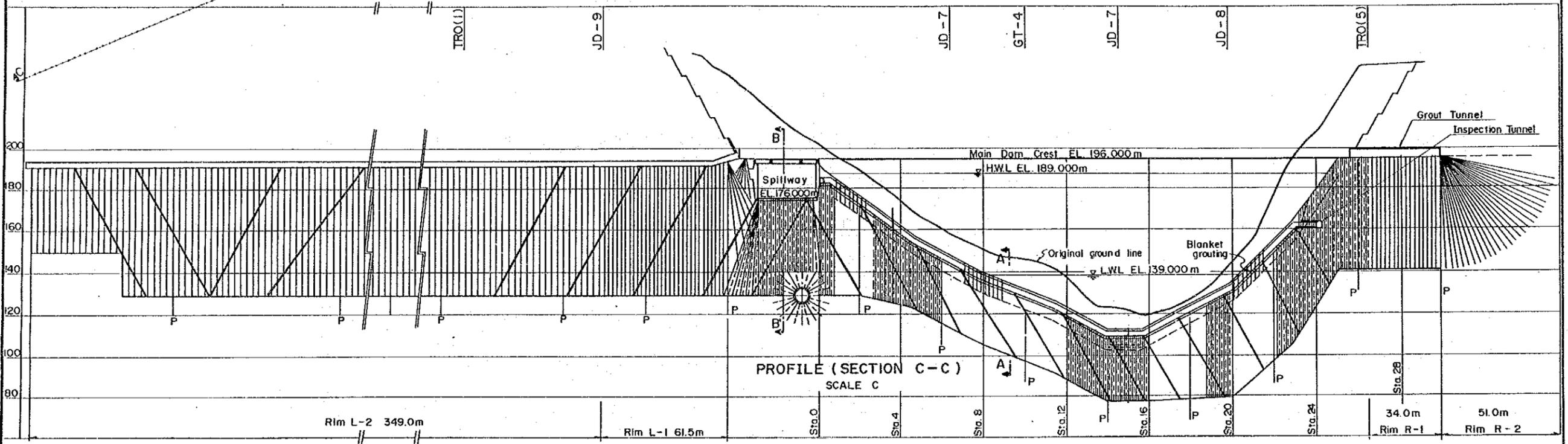
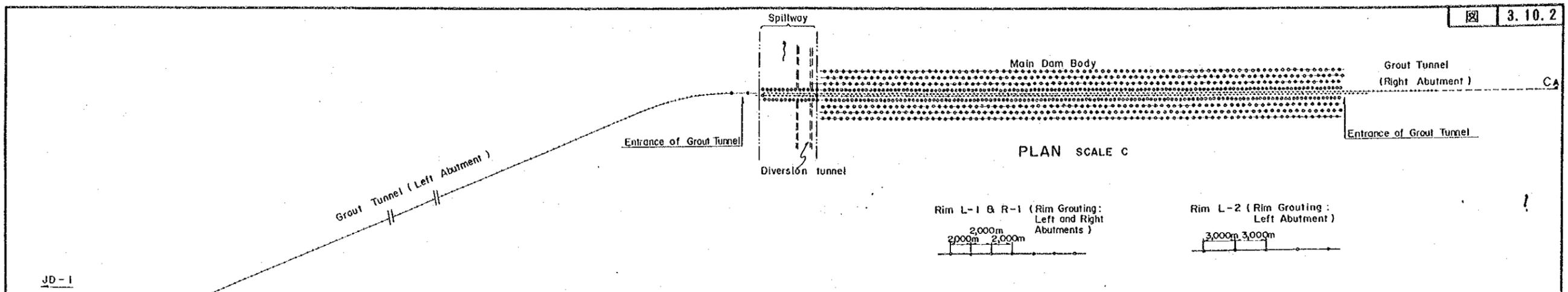




- Notes;
- 1) Location and details of soft layers are indicative and can vary.
  - 2) Depth of plug concrete shown is indicative, and may be changed as required by the Engineer.
  - 3) Excavation levels indicated may change to suit actual site conditions.

コア基礎部のプラグ・コンクリート  
打設平面、縦断及び詳細図

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY



Note:  
1) The arrangement indicated in this Drawing is subject to change to suit actual site conditions.

ダム基礎処理図

GOVERNMENT OF MAURITIUS  
PORT LOUIS WATER SUPPLY PROJECT  
JAPAN INTERNATIONAL COOPERATION AGENCY