



JAPAN INTERNATIONAL COOPERATION AGENCY
THE MINISTRY OF LAND RECLAMATION, REGIONAL AND WATER DEVELOPMENT
THE REPUBLIC OF KENYA

THE STUDY
ON
THE WATER SUPPLY
FOR
SEVEN TOWNS IN EASTERN PROVINCE
IN
THE REPUBLIC OF KENYA

FINAL REPORT
VOLUME IV
DRAWINGS

OCTOBER 1997

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NIPPON KOEI CO., LTD.
NIHON SUIDO CONSULTANTS CO., LTD.



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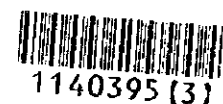
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EXCHANGE RATE (As of March 1997)
US\$ 1.00 = Kshs. 56.00

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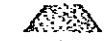
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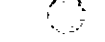
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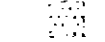
Legend



Proposed Intake



Proposed Treatment Plant



Proposed Storage Tank (Phase I)



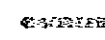
Proposed Storage Tank (Phase II)



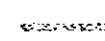
Existing Treatment Plant



Existing Storage Tank

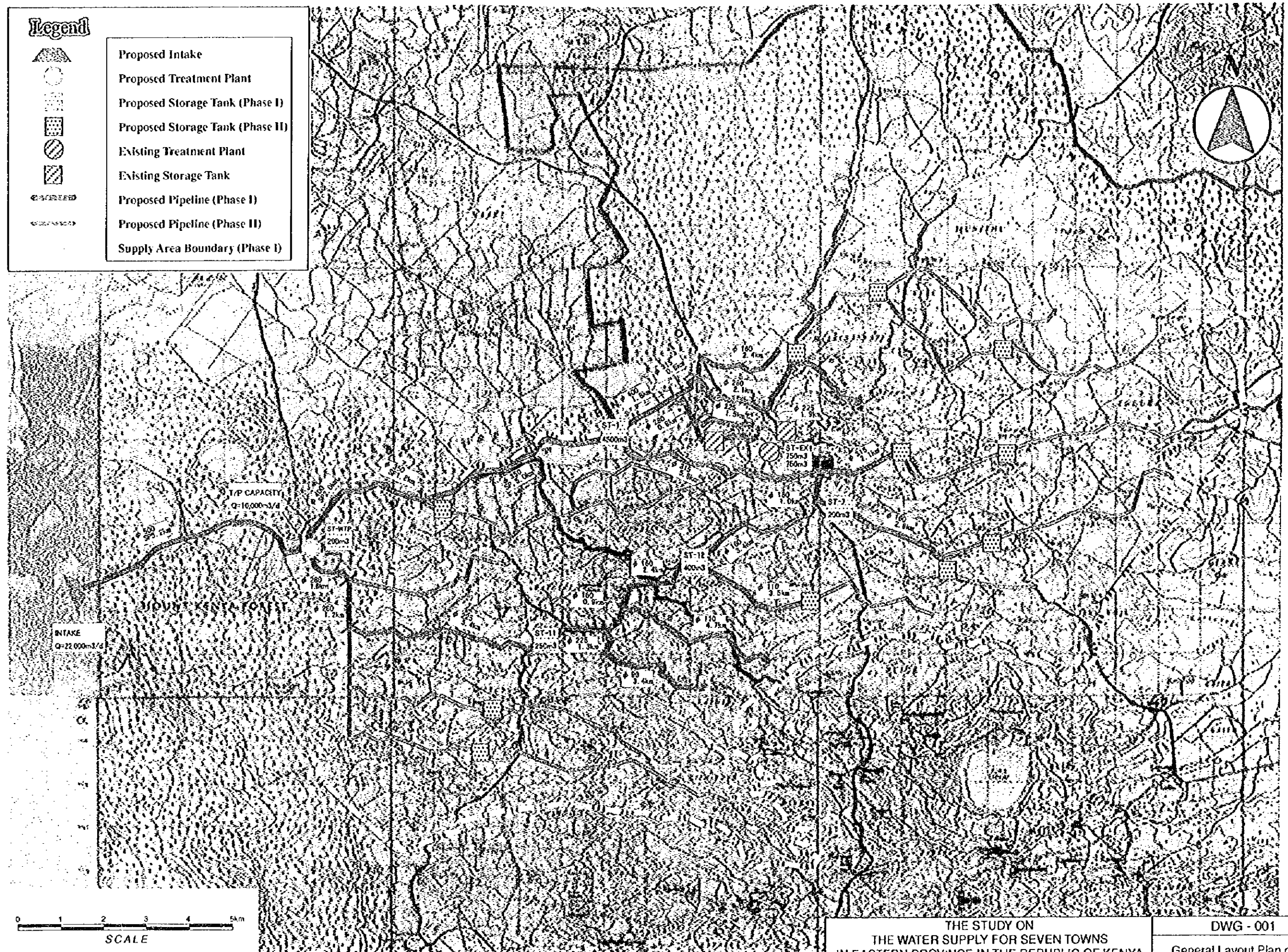


Proposed Pipeline (Phase I)



Proposed Pipeline (Phase II)

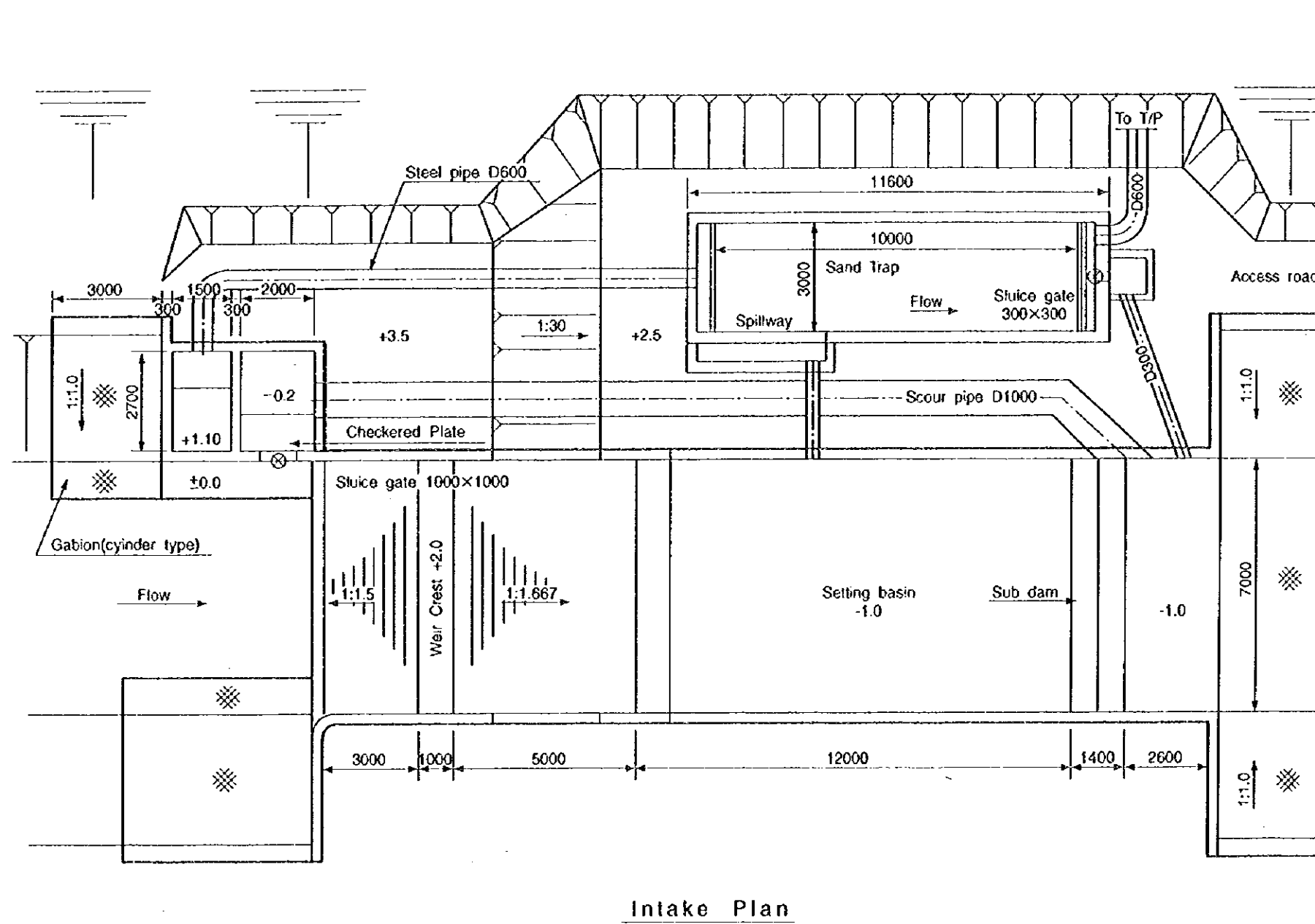
Supply Area Boundary (Phase I)



THE STUDY ON
THE WATER SUPPLY FOR SEVEN TOWNS
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DWG - 001

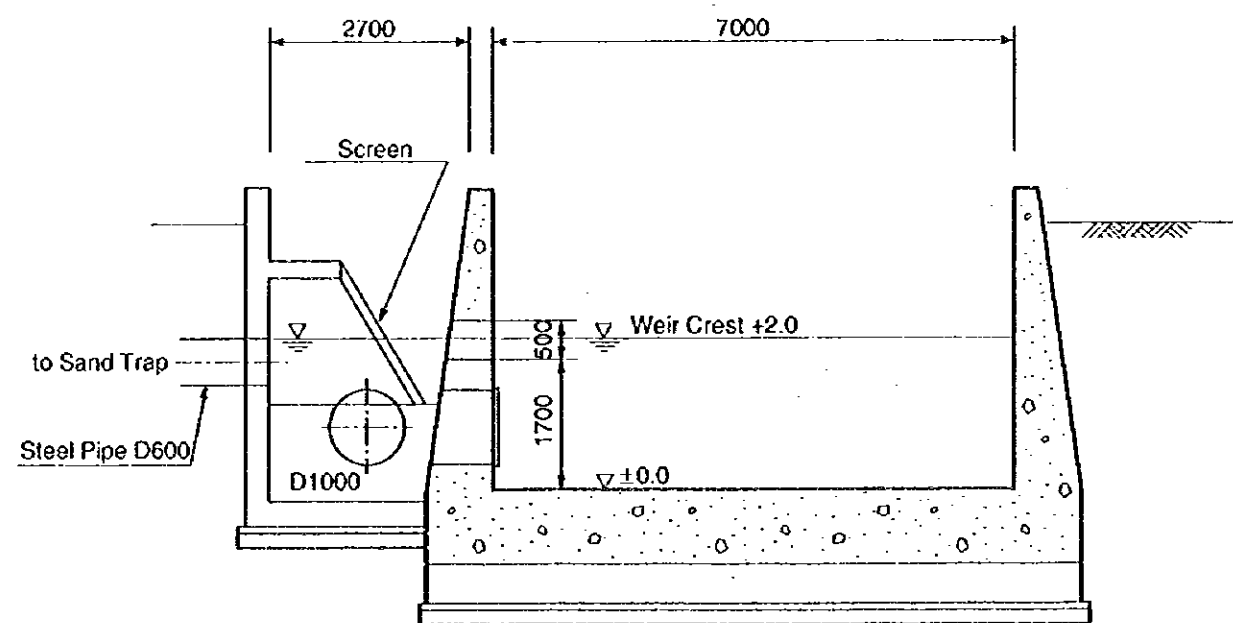
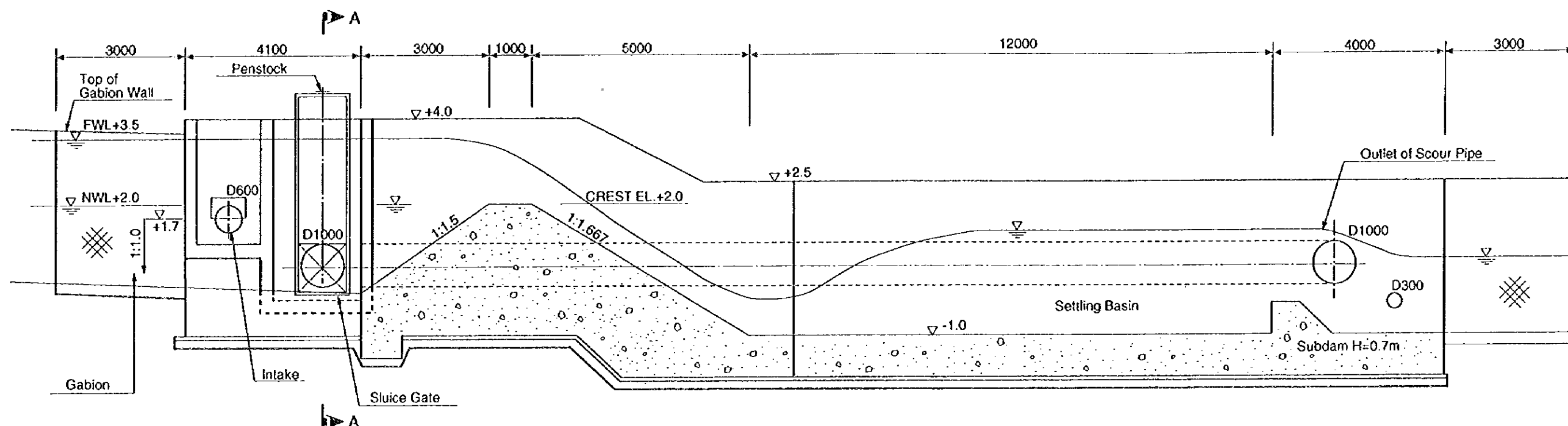
General Layout Plan of
MERU Water Supply System



Intake Plan



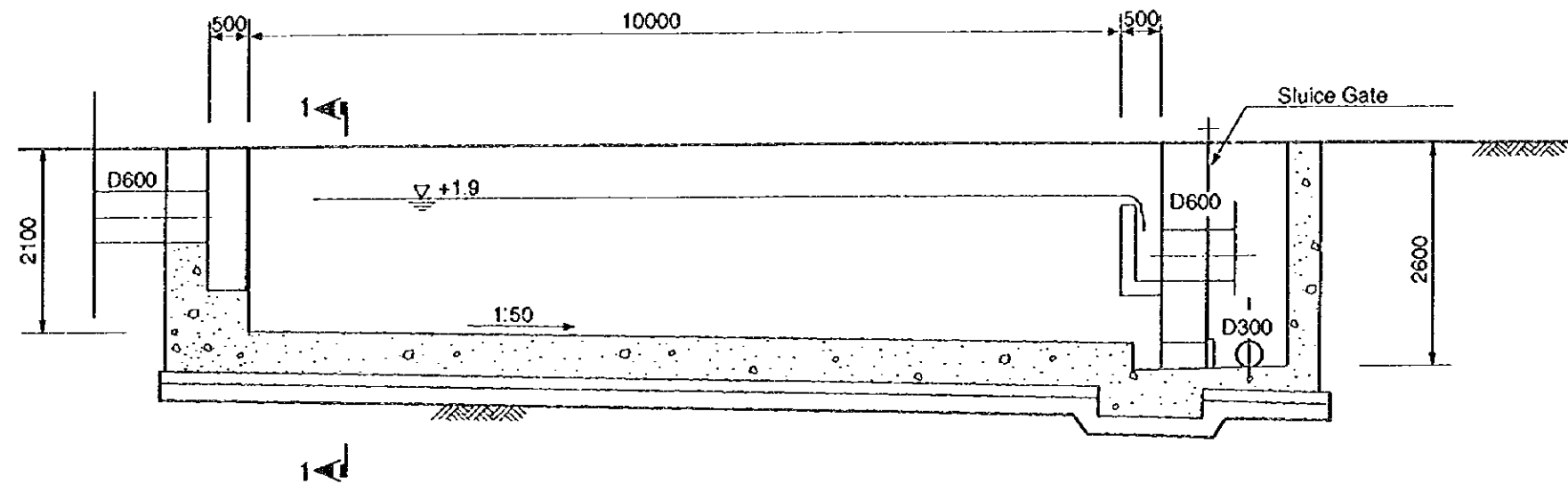
THE STUDY ON THE WATER SUPPLY FOR SEVEN TOWNS IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA JAPAN INTERNATIONAL COOPERATION AGENCY	DWG - 002
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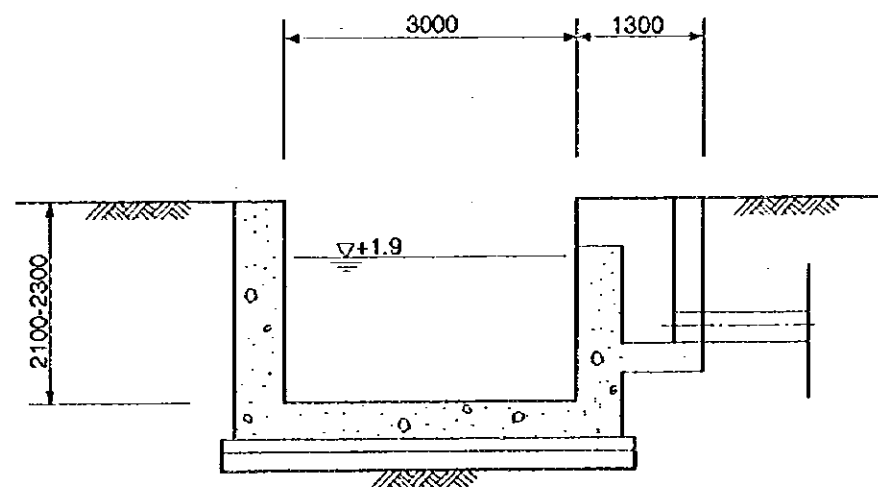
A-A Section



<p>THE STUDY ON THE WATER SUPPLY FOR SEVEN TOWNS IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>DWG - 003 Longitudinal Section of Intake</p>
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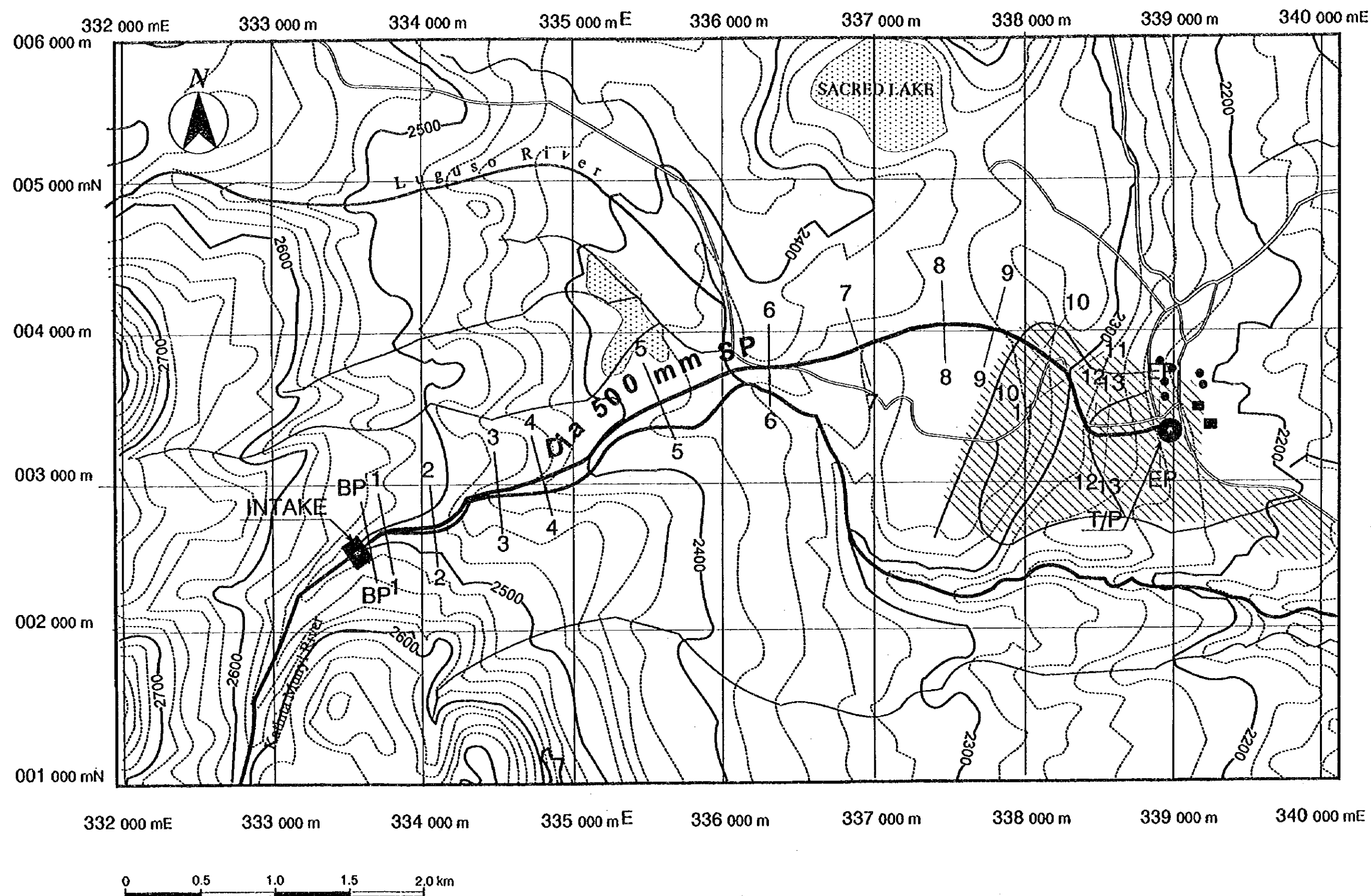


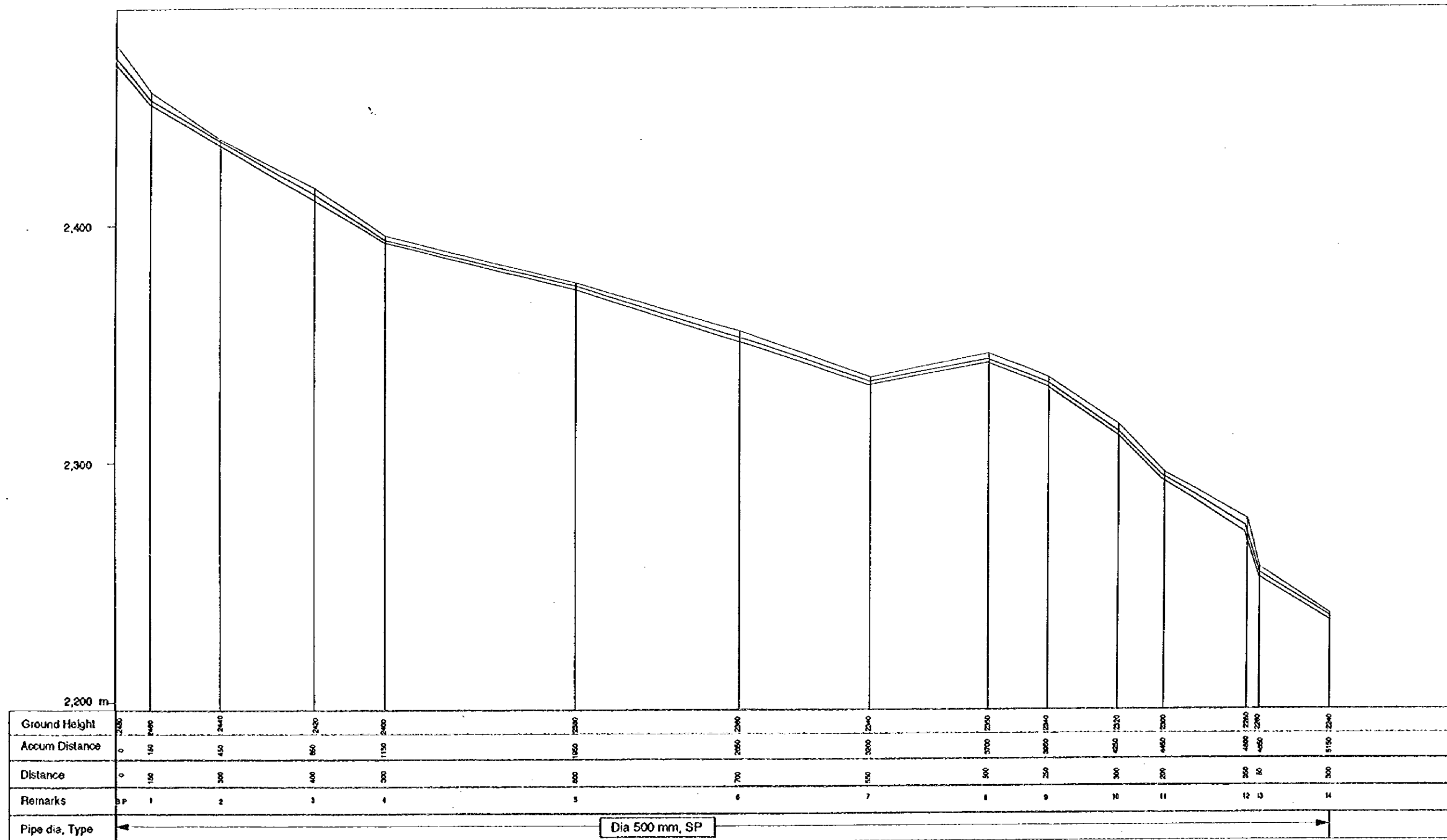
Longitudinal Section



1-1 Section





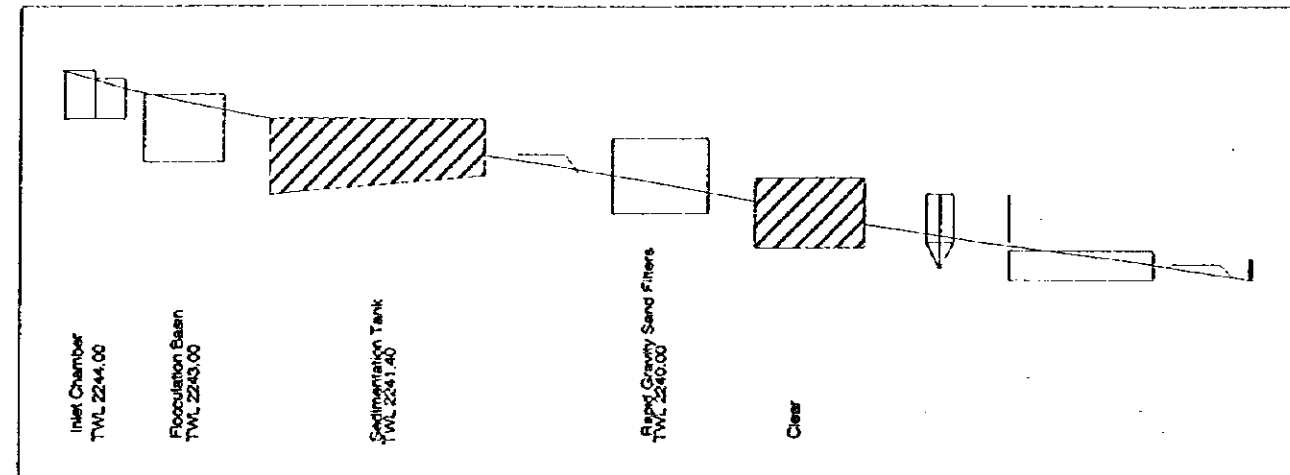


Horizontal 0 100 200 300 400 500m
SCALE

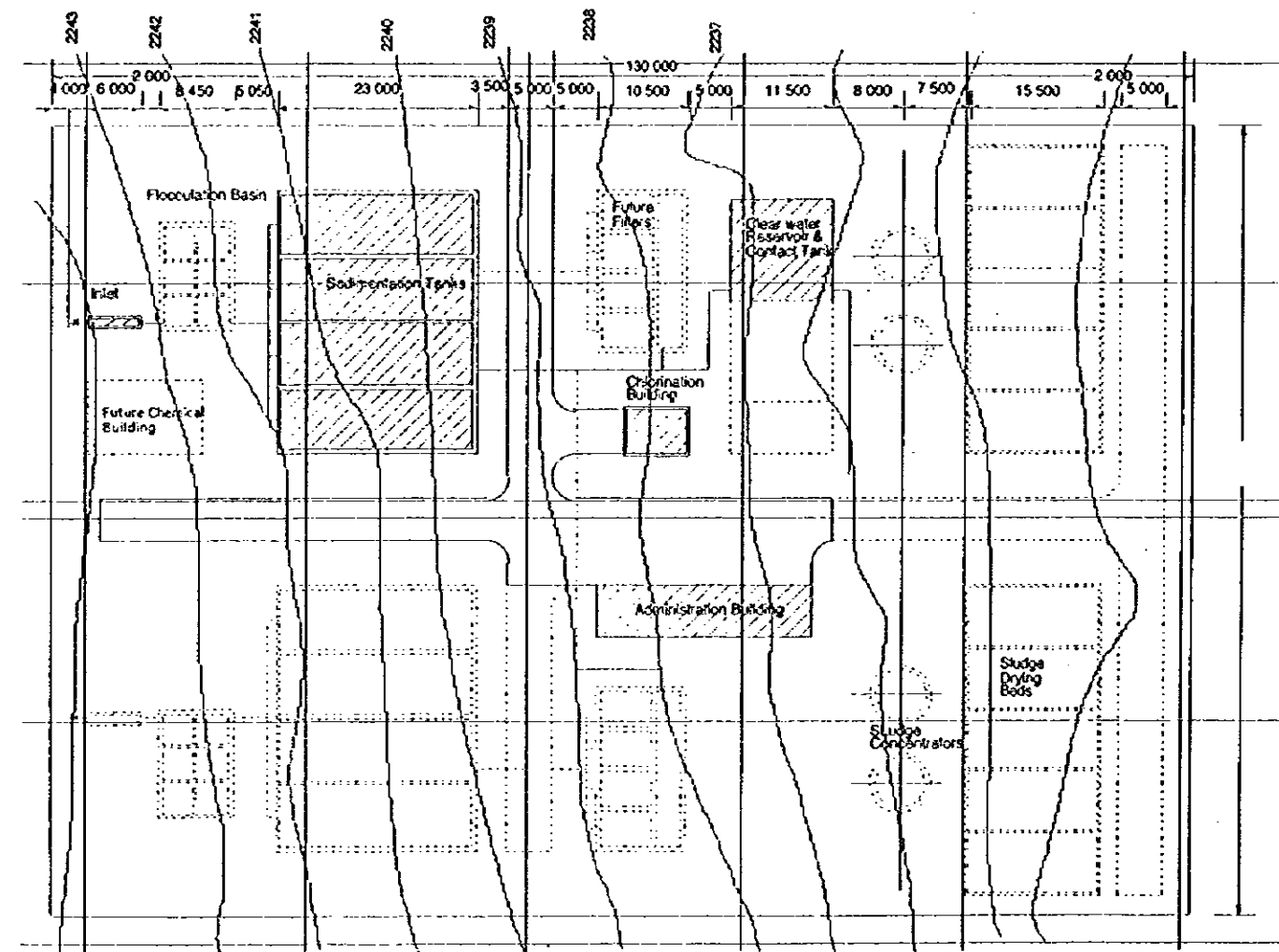
Vertical 0 10 20 30m
SCALE

THE STUDY ON
THE WATER SUPPLY FOR SEVEN TOWNS
IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA
JAPAN INTERNATIONAL COOPERATION AGENCY

DWG - 006
Raw Water Pipeline Profile



Section Through Treatment Plant
(Non Scale)

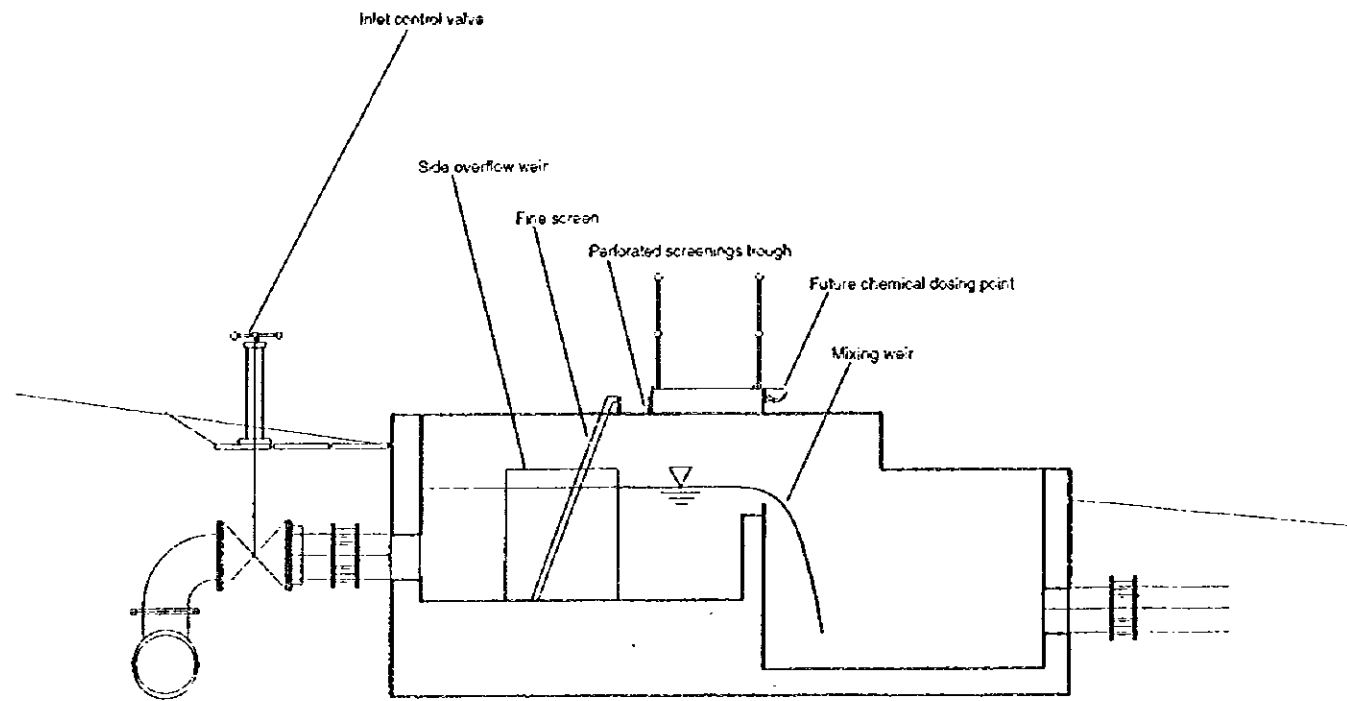


Treatment Plant Plan
(Phase 1 works shaded)

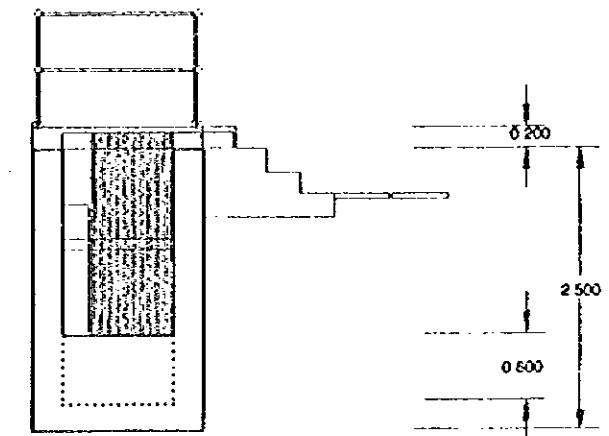
0 10 20 30m
SCALE

THE STUDY ON
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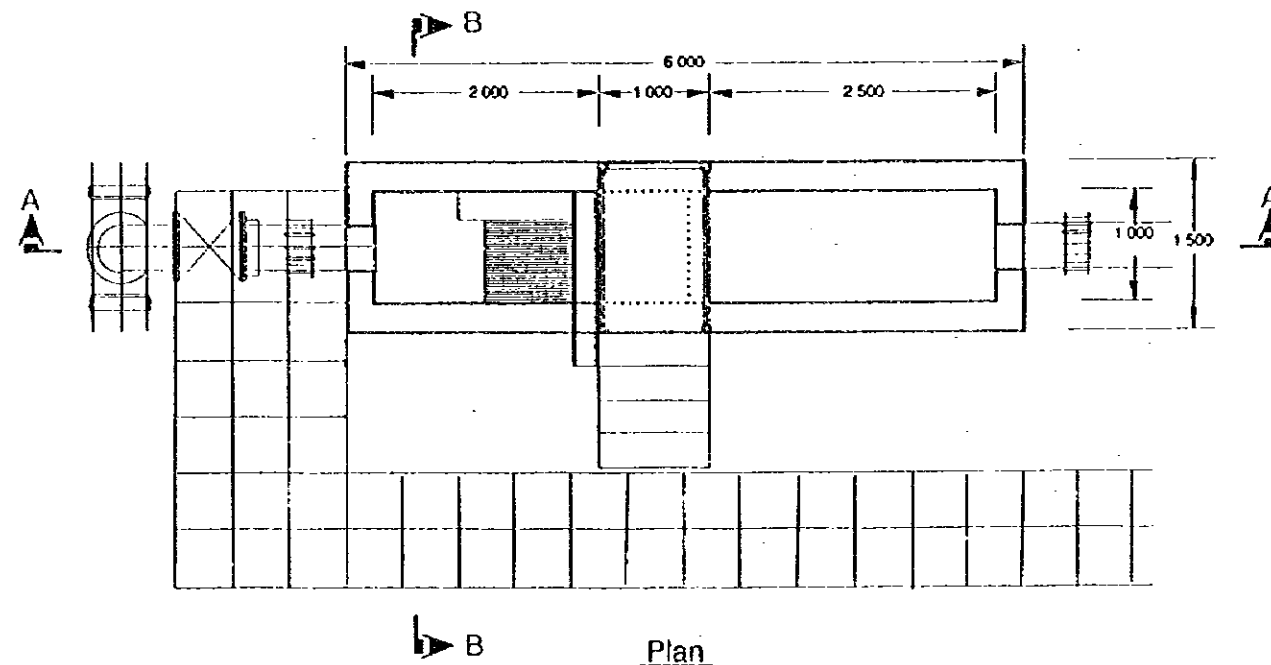
DWG - 007
Treatment Plant Layout Plan



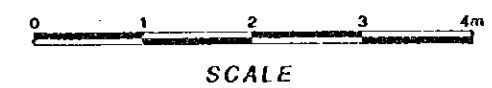
Section A - A



Section B - B

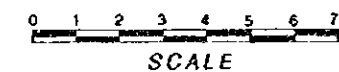
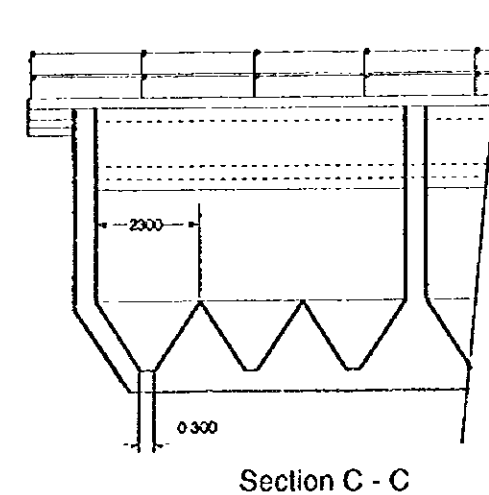
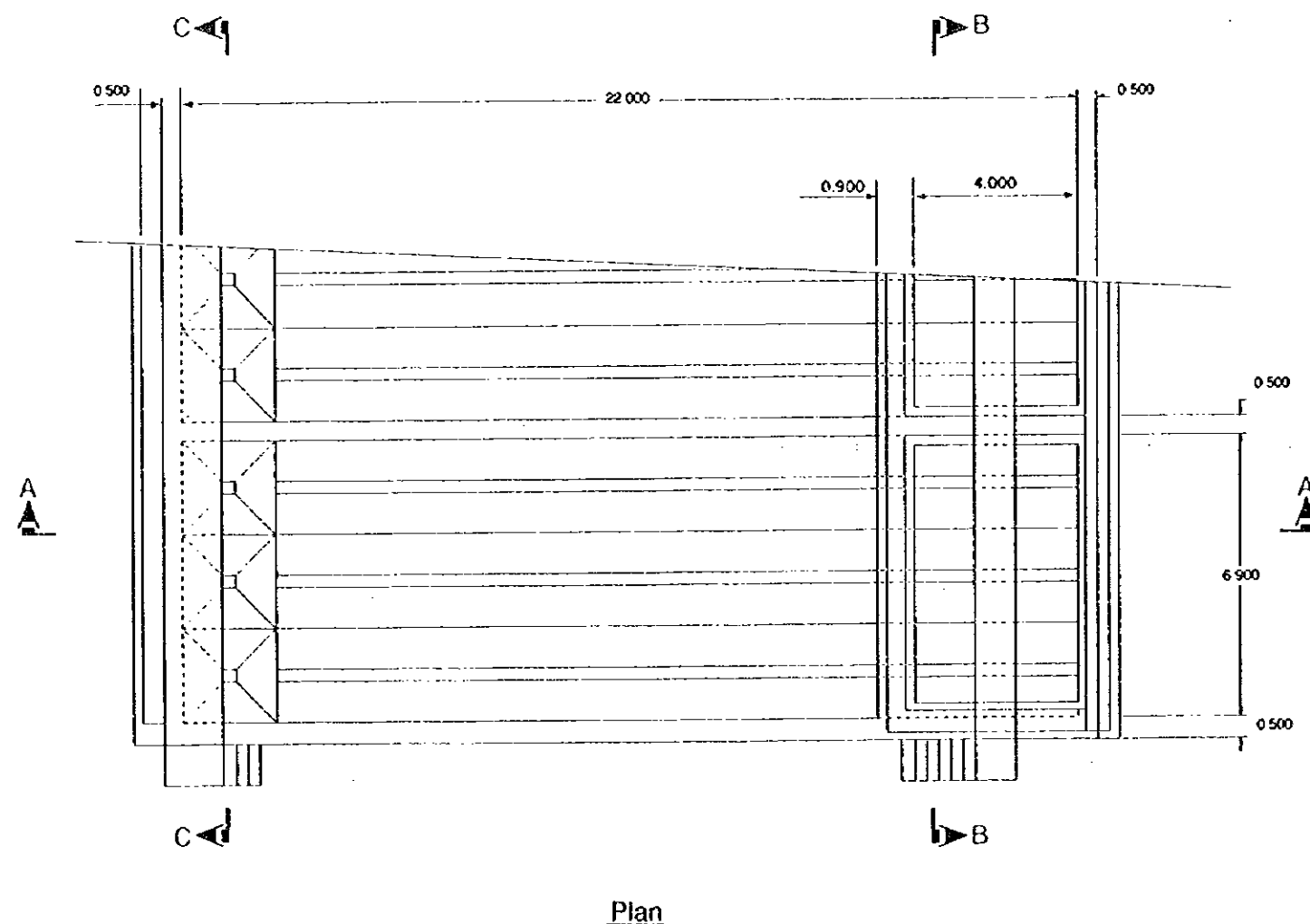
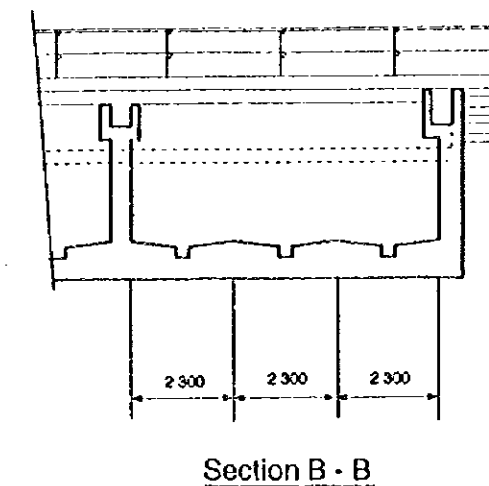
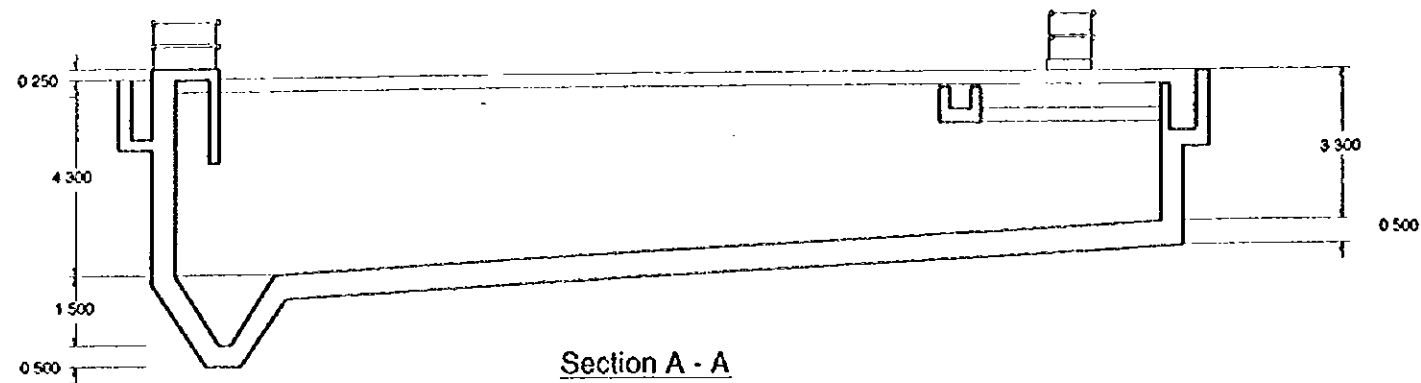


Plan

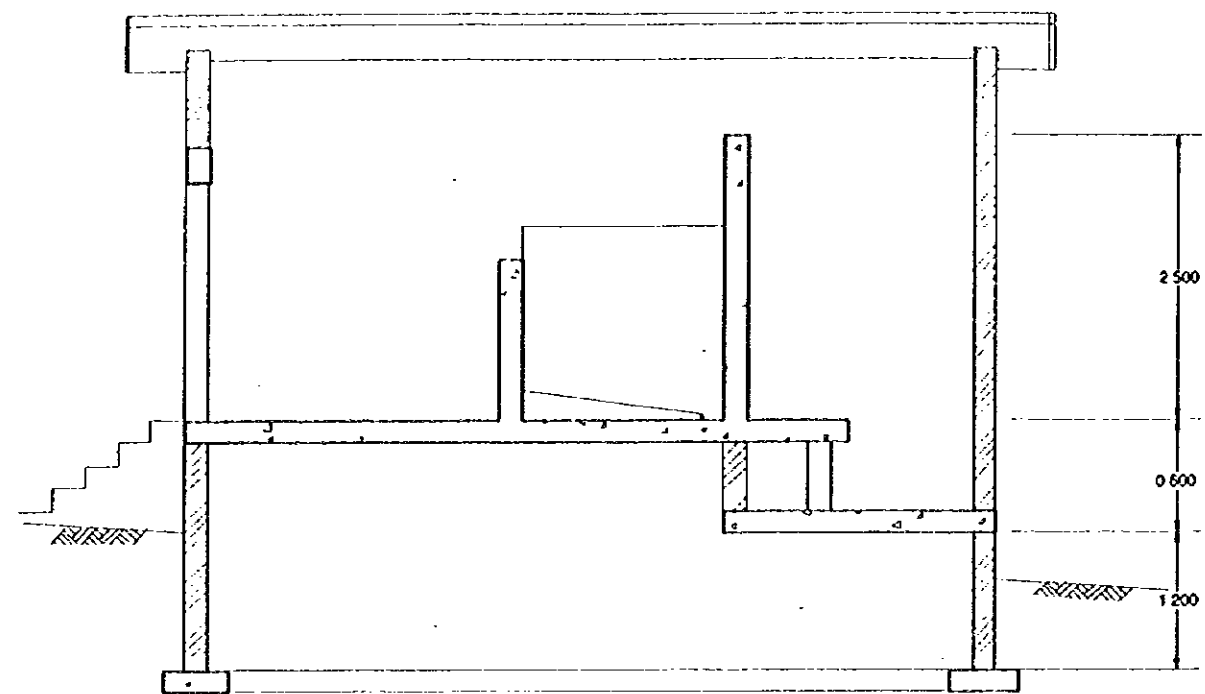


SCALE

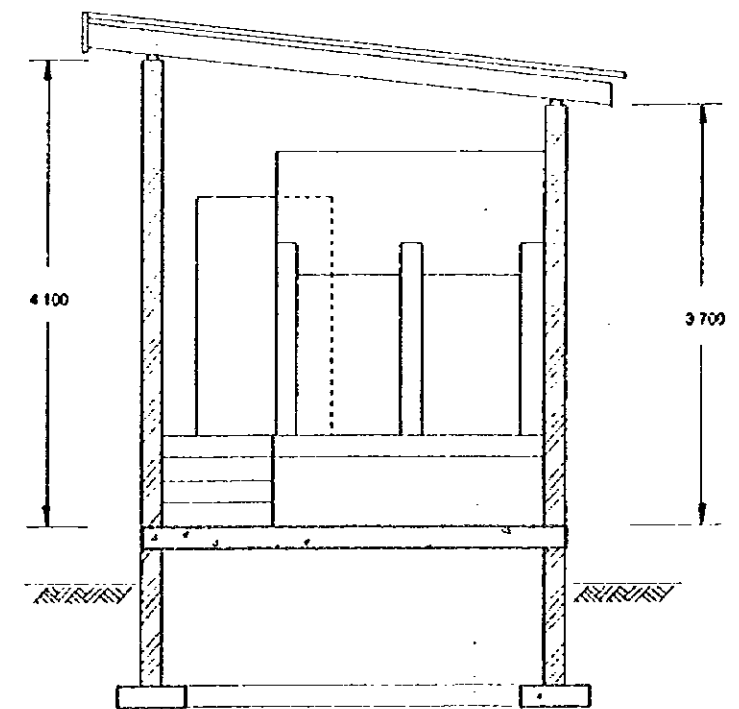
<p>THE STUDY ON THE WATER SUPPLY FOR SEVEN TOWNS IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>DWG - 008</p>
	<p>Inlet Structure</p>



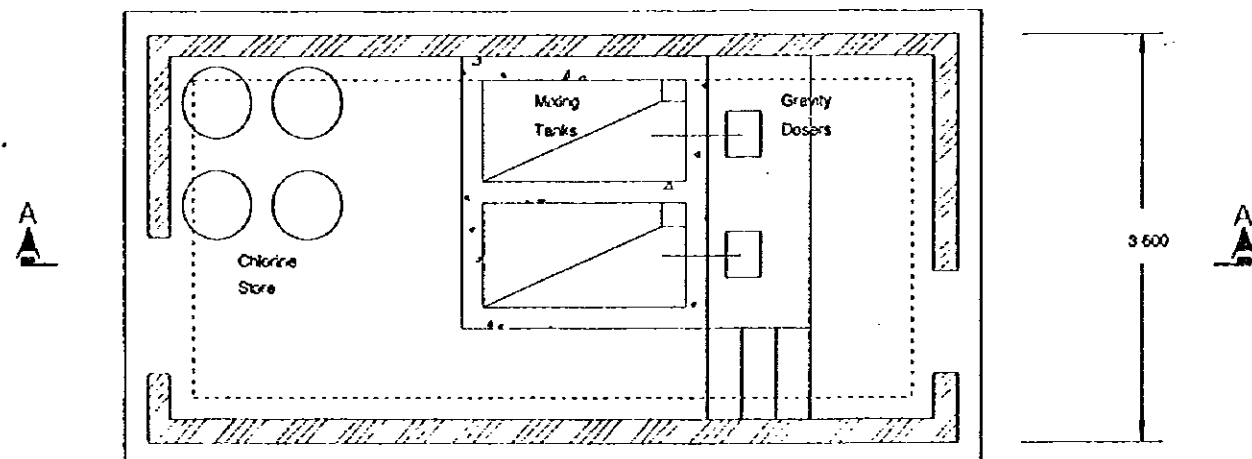
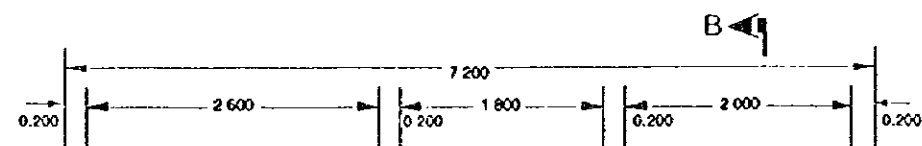
<p>THE STUDY ON THE WATER SUPPLY FOR SEVEN TOWNS IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>DWG - 009 Horizontal Sedimentation Tanks</p>
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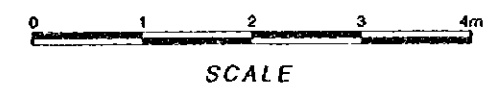
Section A - A



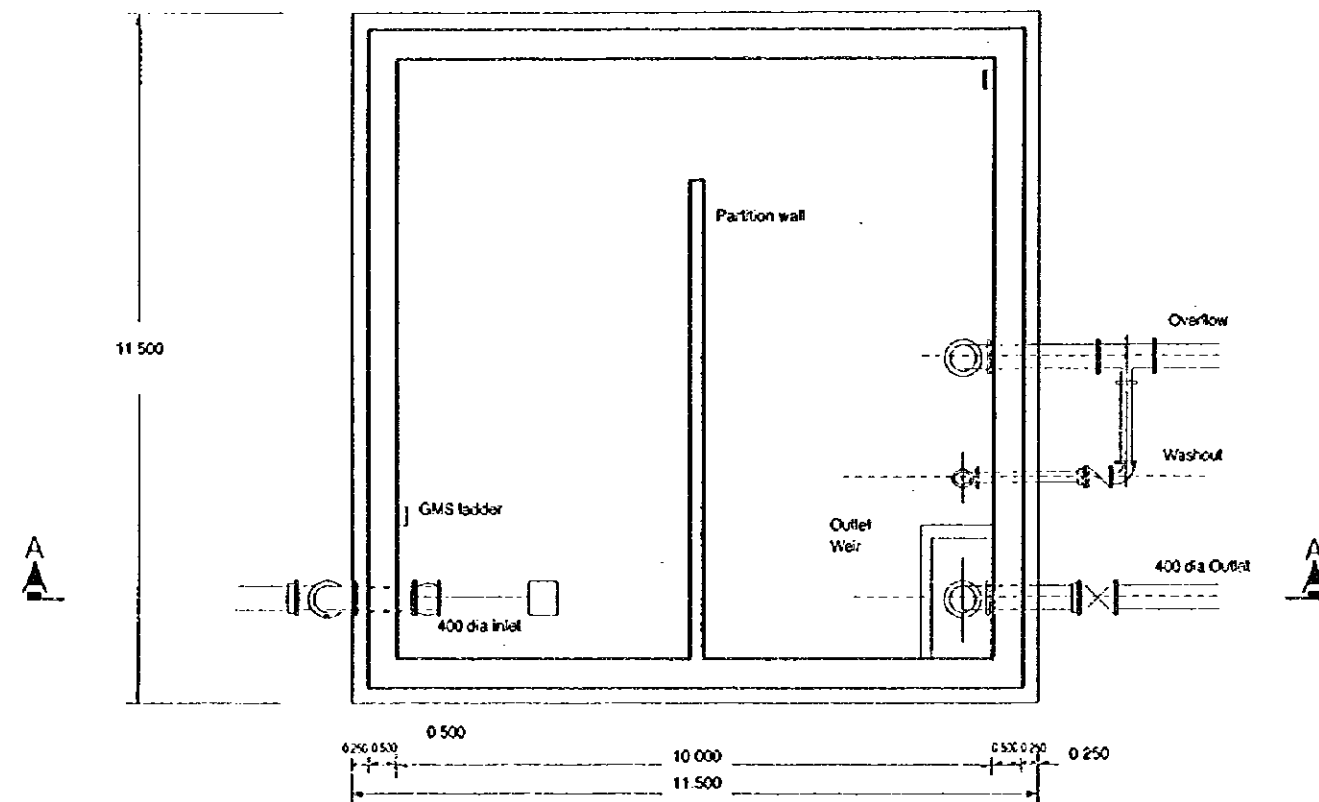
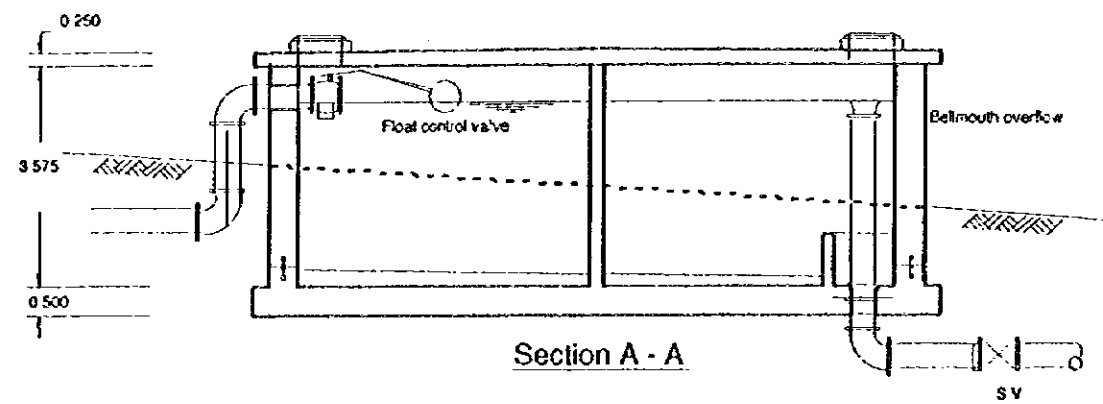
Section B - B



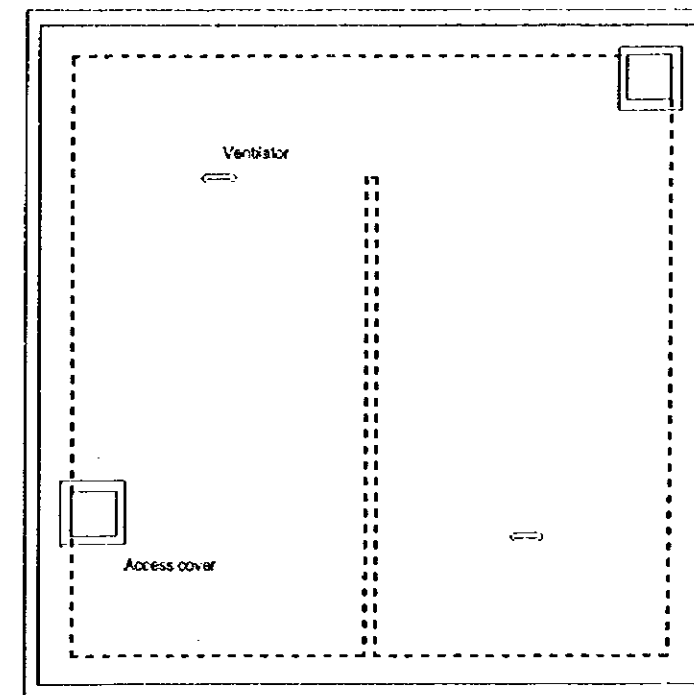
Plan



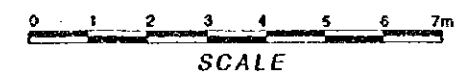
THE STUDY ON THE WATER SUPPLY FOR SEVEN TOWNS IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA JAPAN INTERNATIONAL COOPERATION AGENCY	DWG - 010
	Chlorination Building



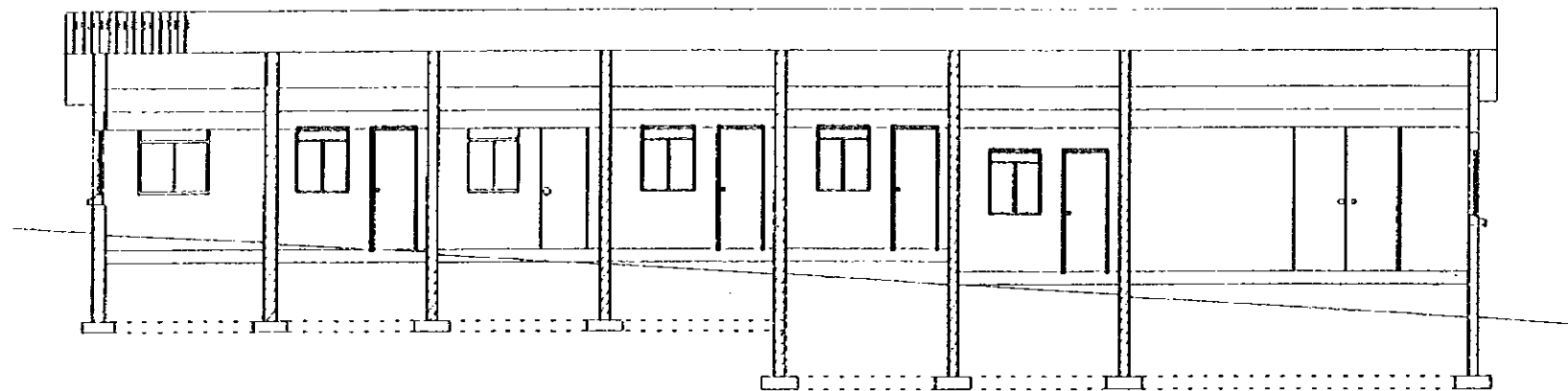
Floor Plan



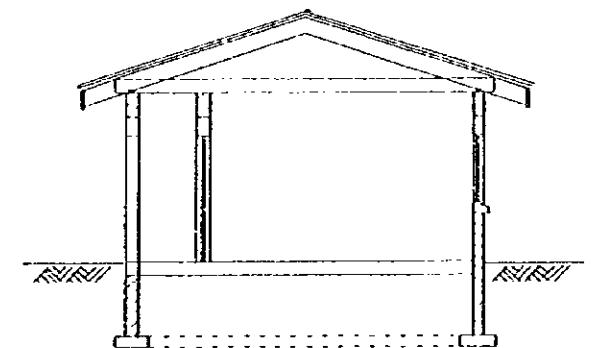
Roof Plan



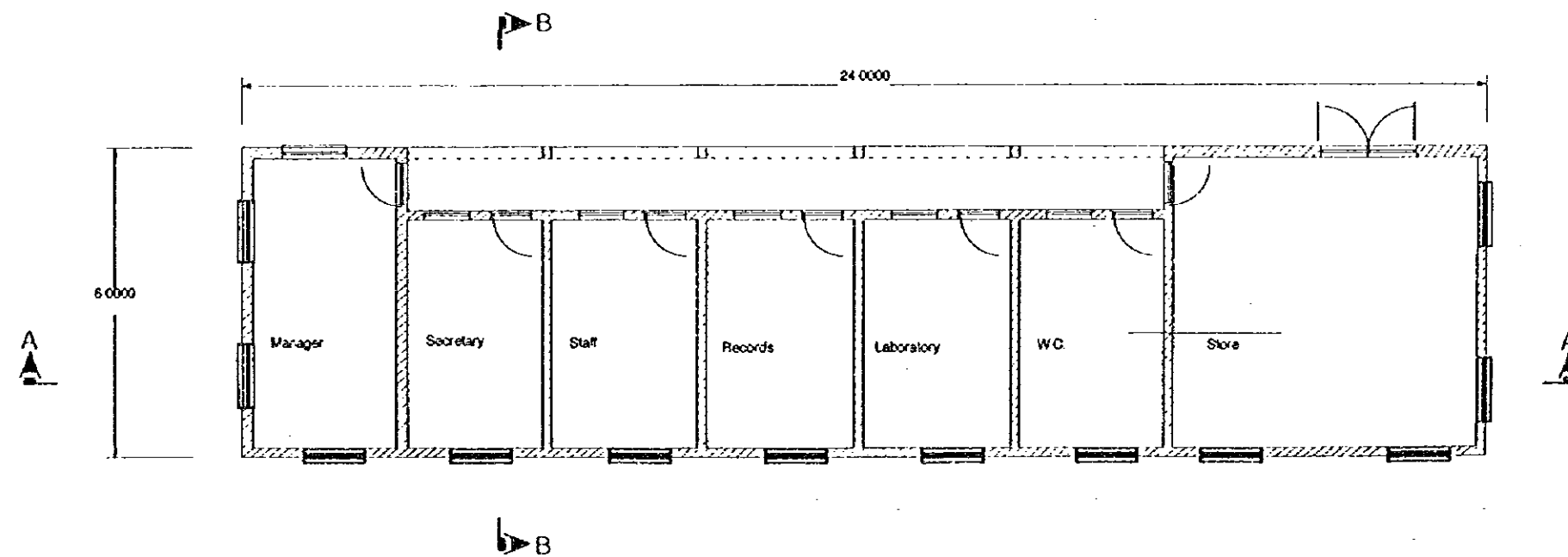
THE STUDY ON THE WATER SUPPLY FOR SEVEN TOWNS IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA JAPAN INTERNATIONAL COOPERATION AGENCY	DWG - 011
	Clean Water Reservoir



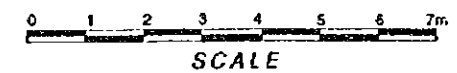
Section A - A



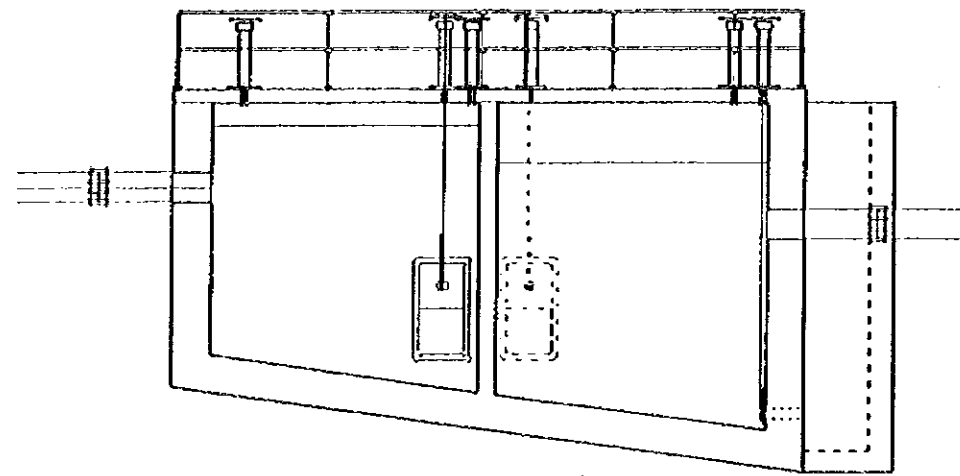
Section B - B



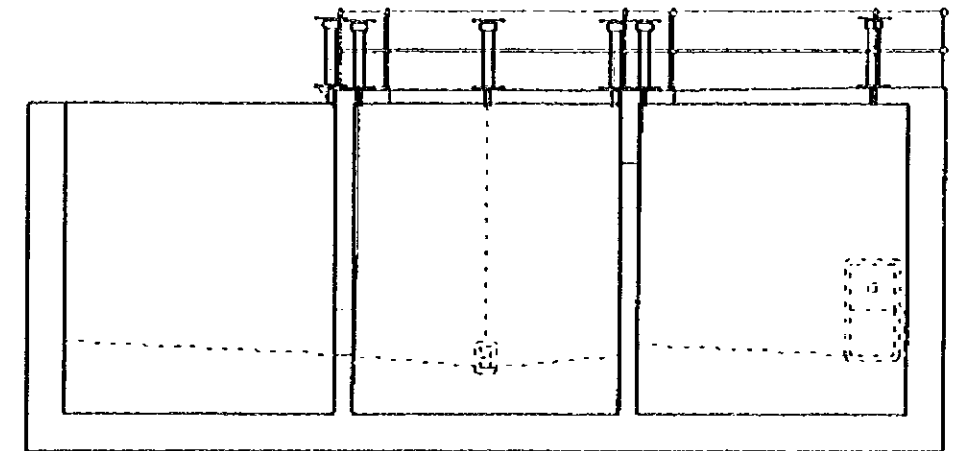
Plan



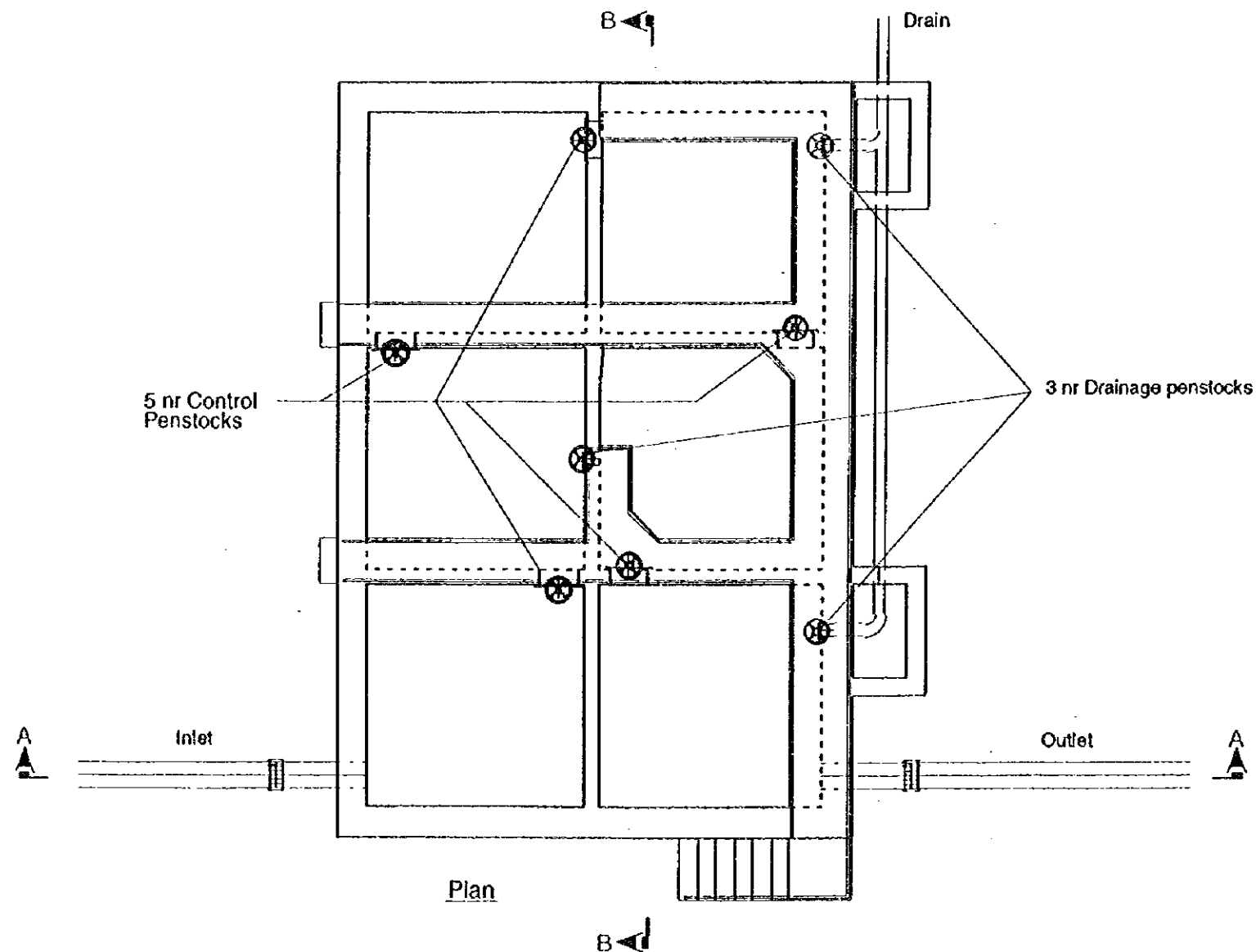
THE STUDY ON THE WATER SUPPLY FOR SEVEN TOWNS IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA JAPAN INTERNATIONAL COOPERATION AGENCY	DWG - 012
	Administration Building



Section A - A

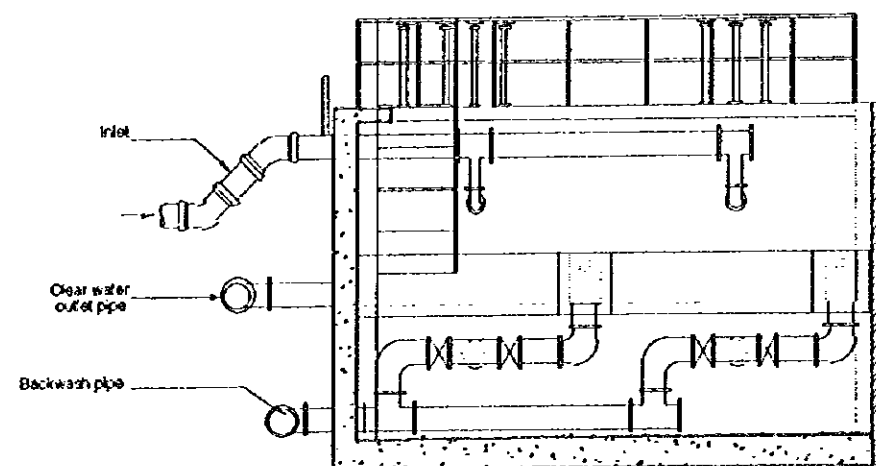


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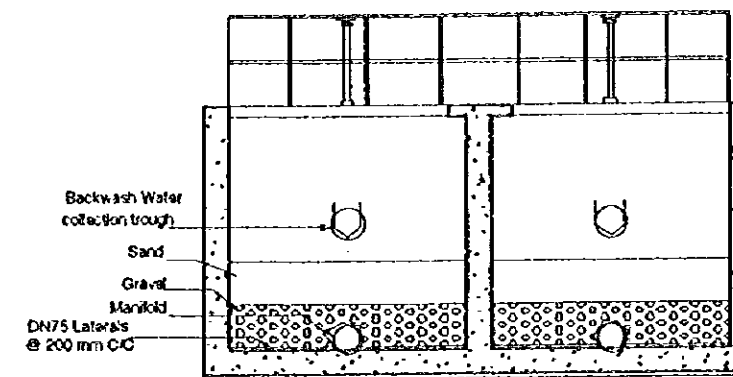


Plan

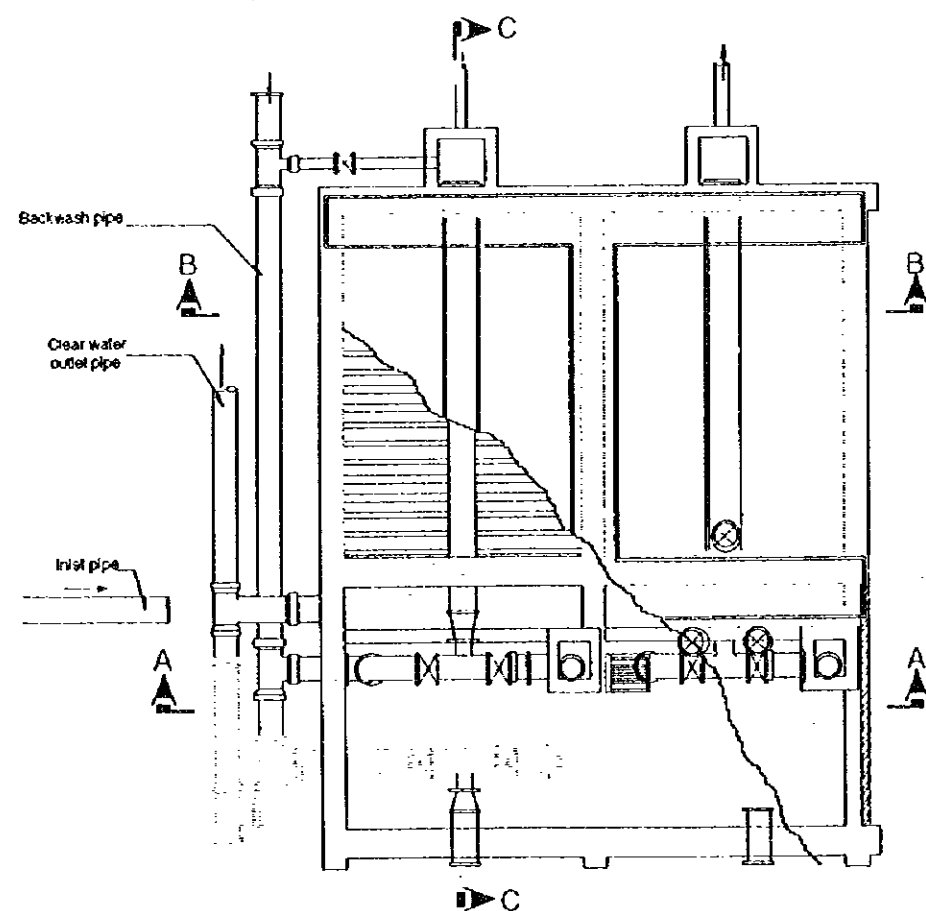
<p>THE STUDY ON THE WATER SUPPLY FOR SEVEN TOWNS IN EASTERN PROVINCE IN THE REPUBLIC OF KENYA JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>DWG - 013 Schematic Drawing of Flocculator(Sample Design)</p>
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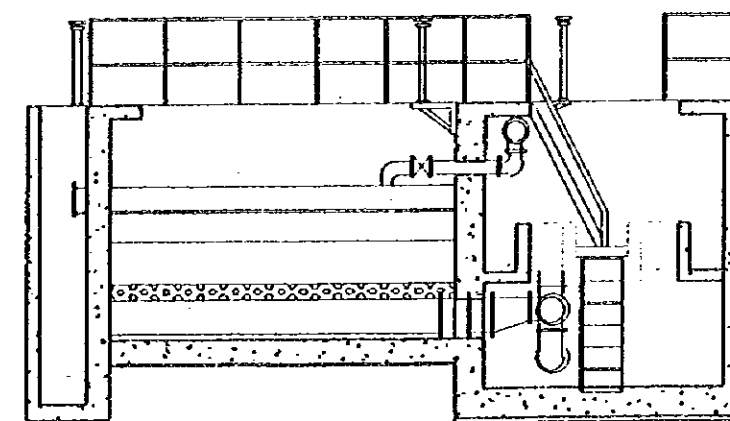
Section A - A



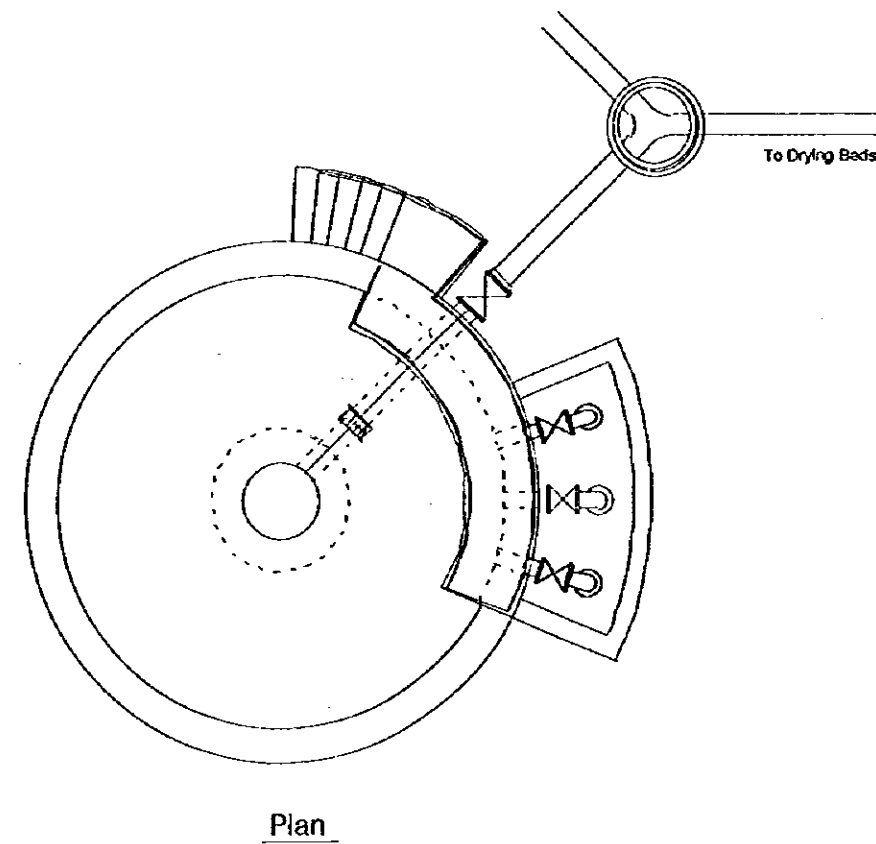
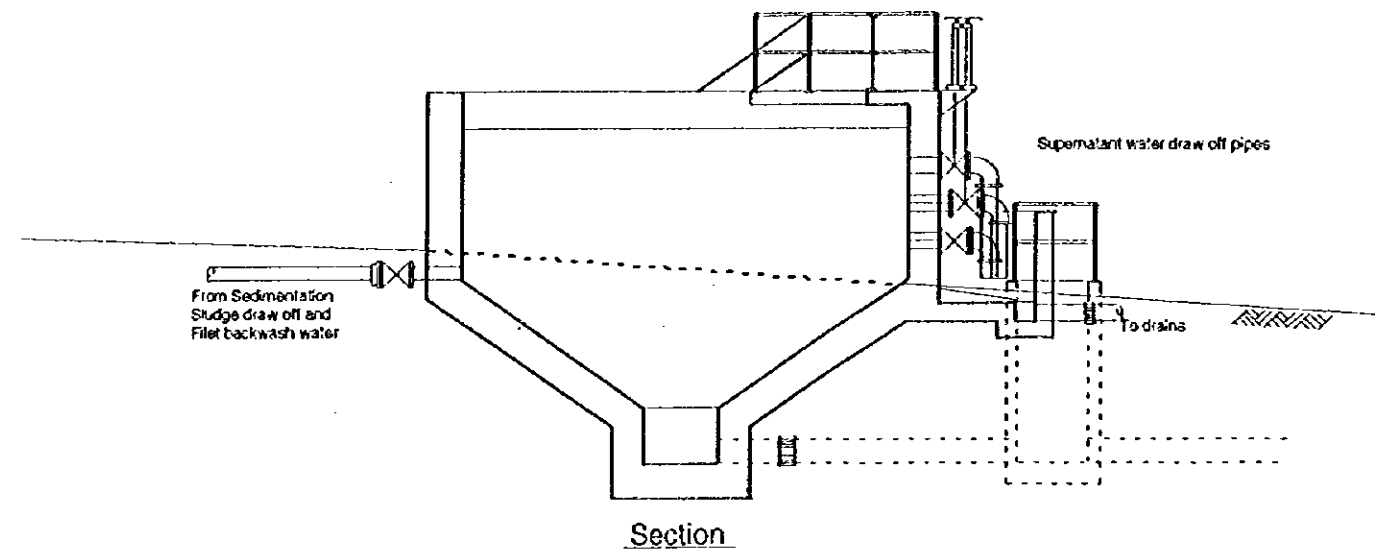
Section B - B



Plan

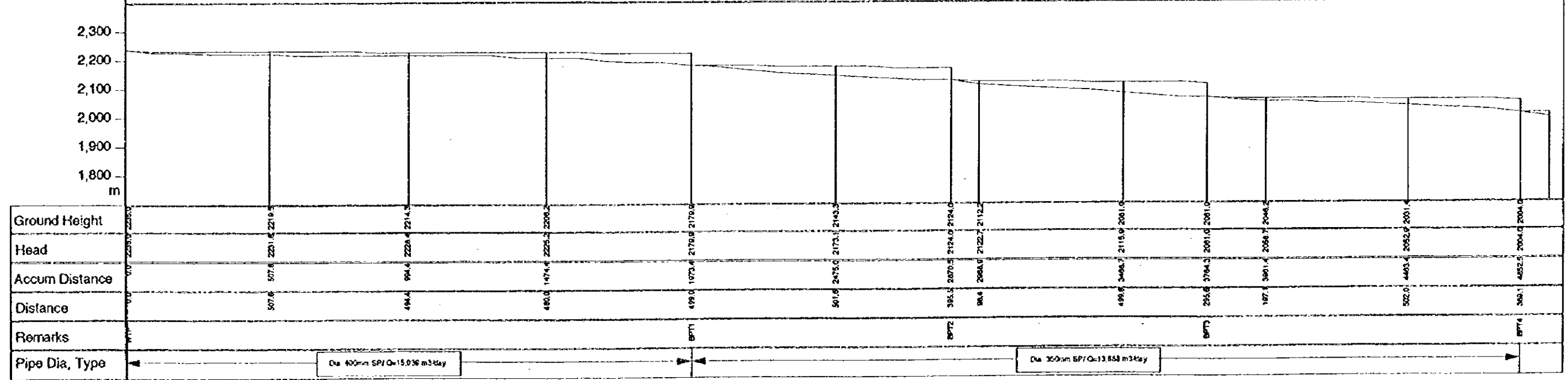
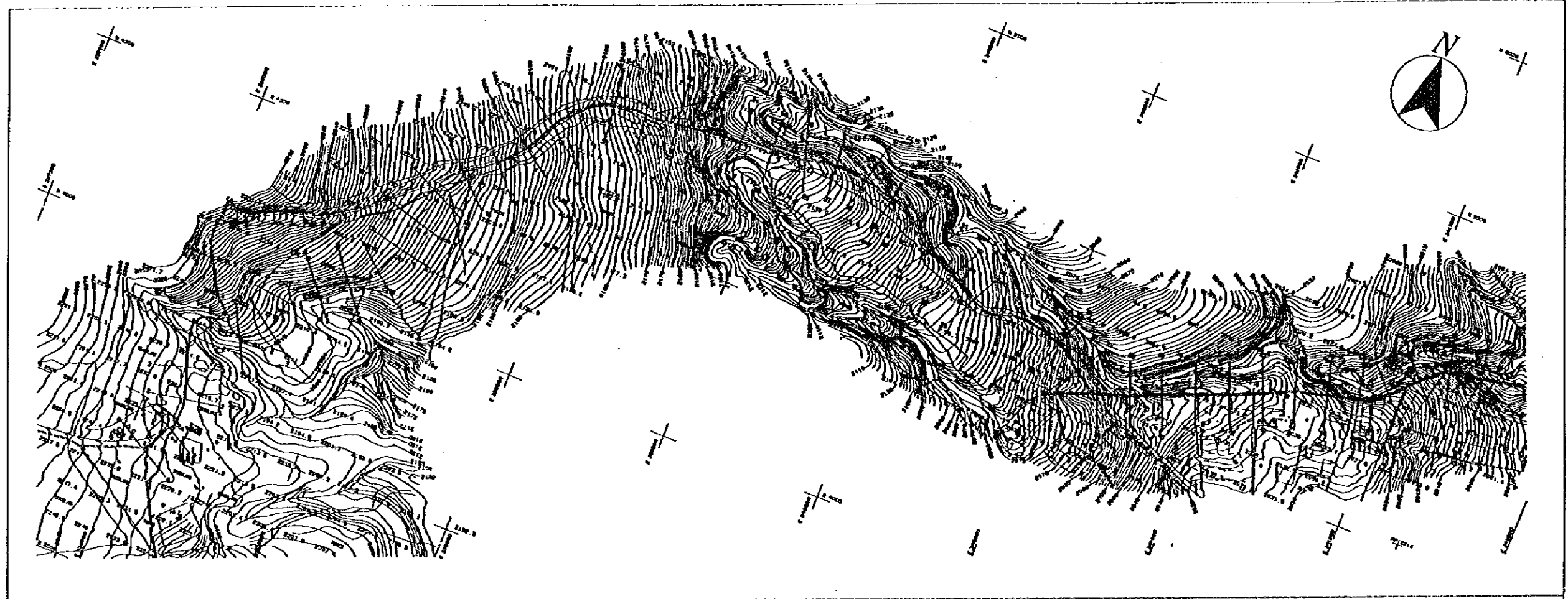


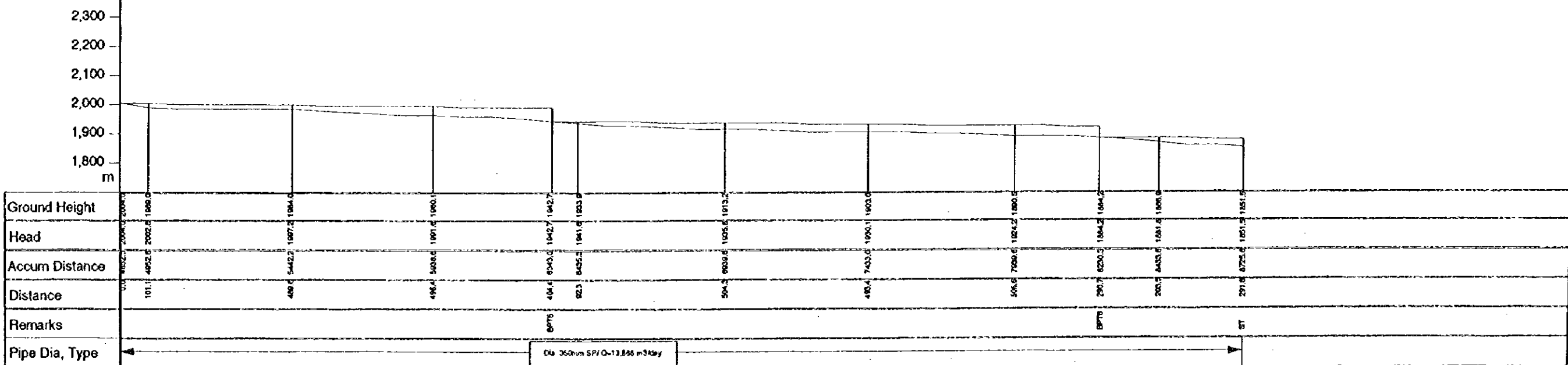
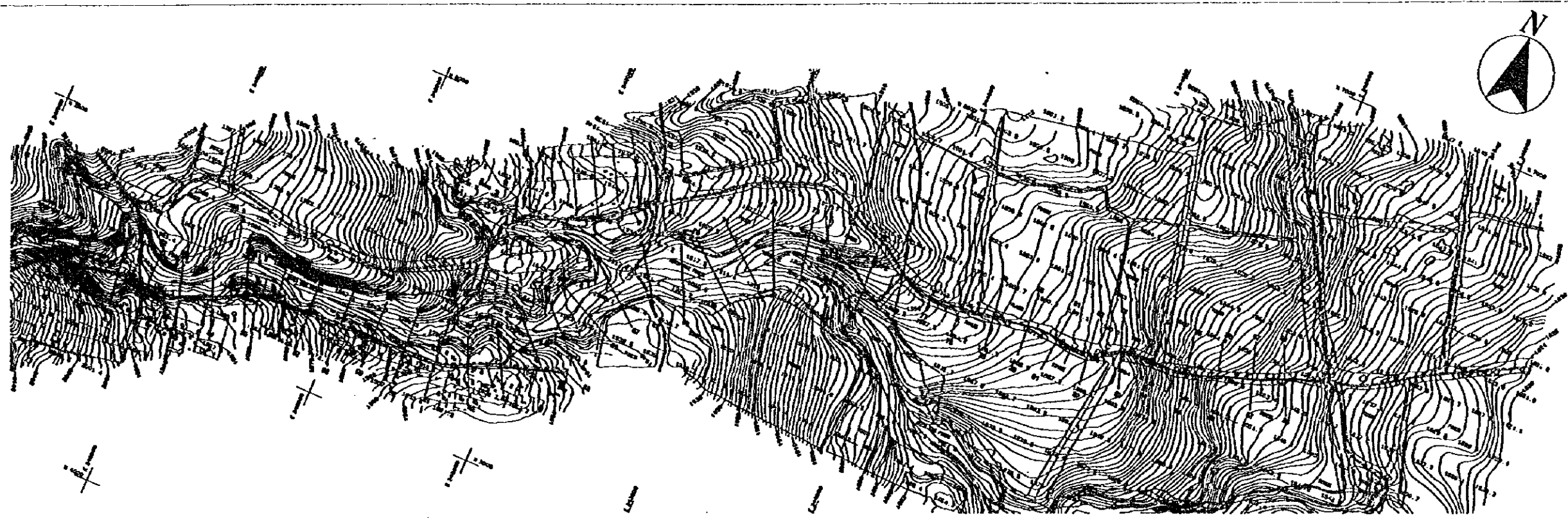
Section C - C



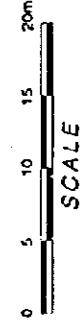
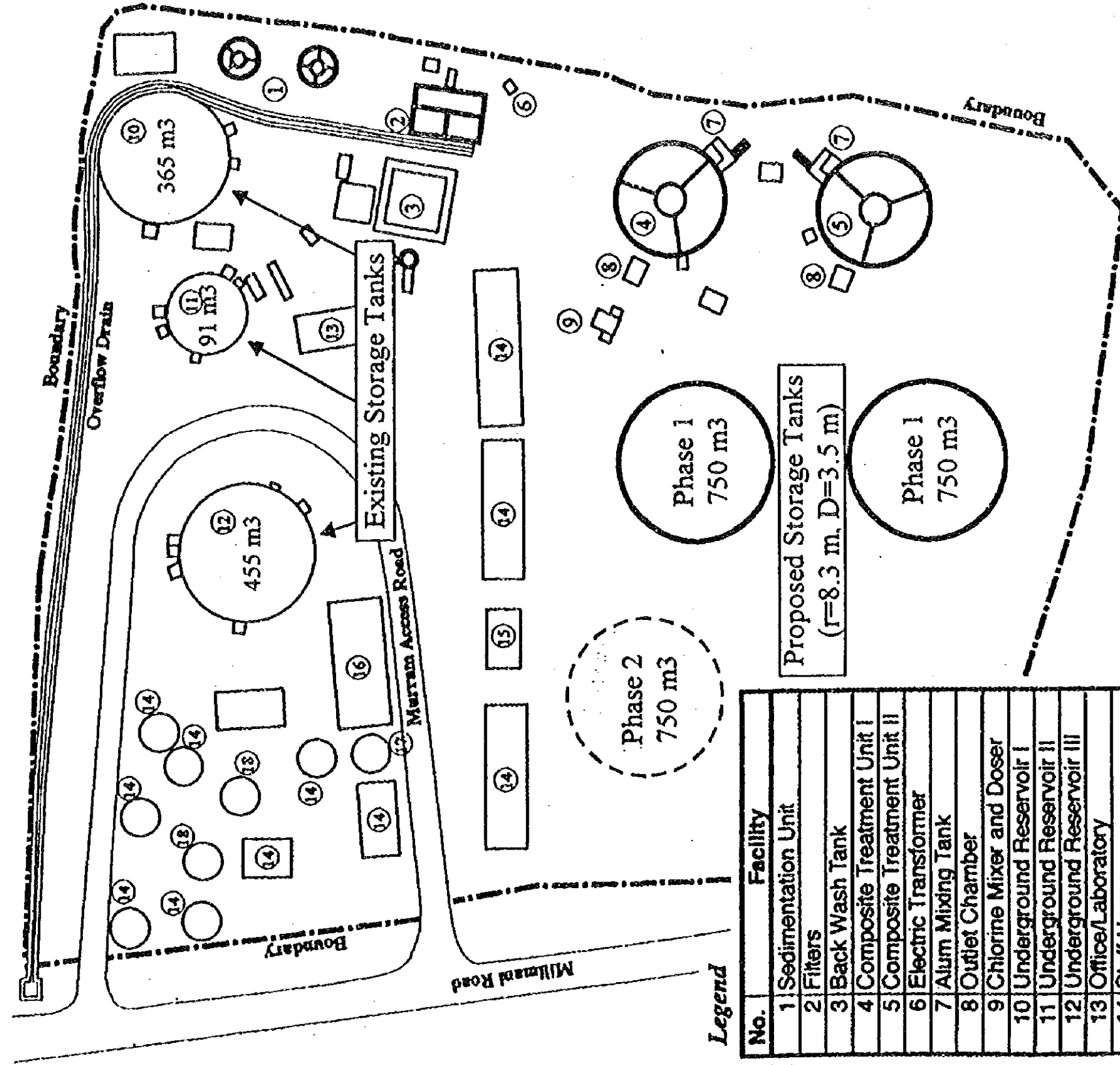
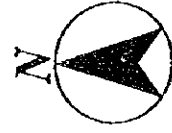
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DWG - 015
Sludge Concentration Tank
Schematic Drawing
(Sample Design)

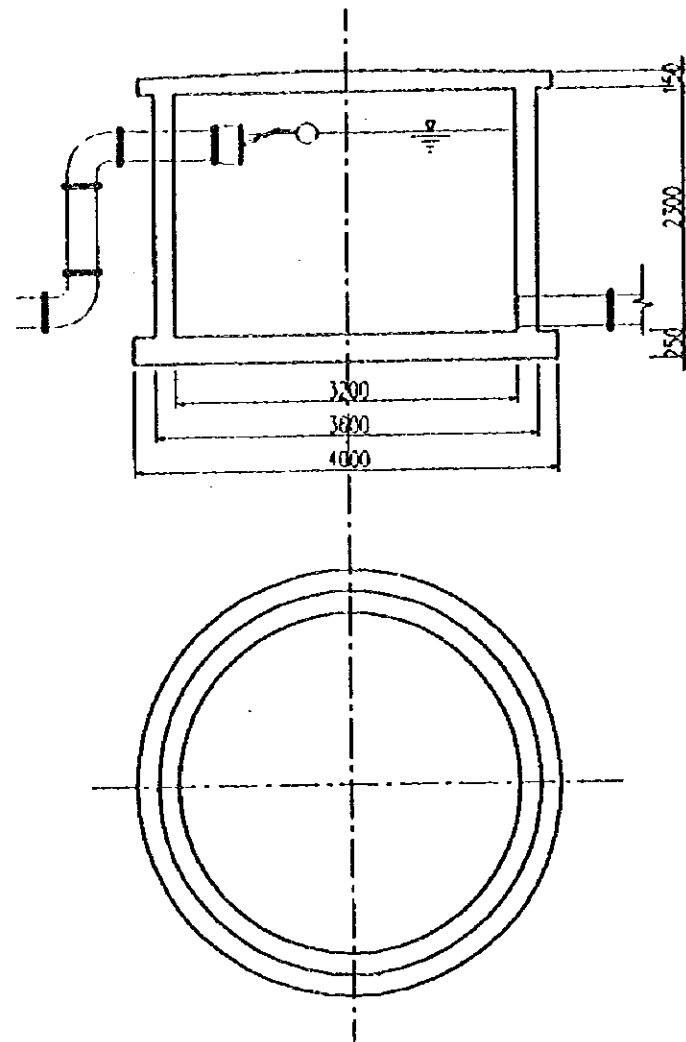




Existing Treatment Plant (Milimani Waterworks)

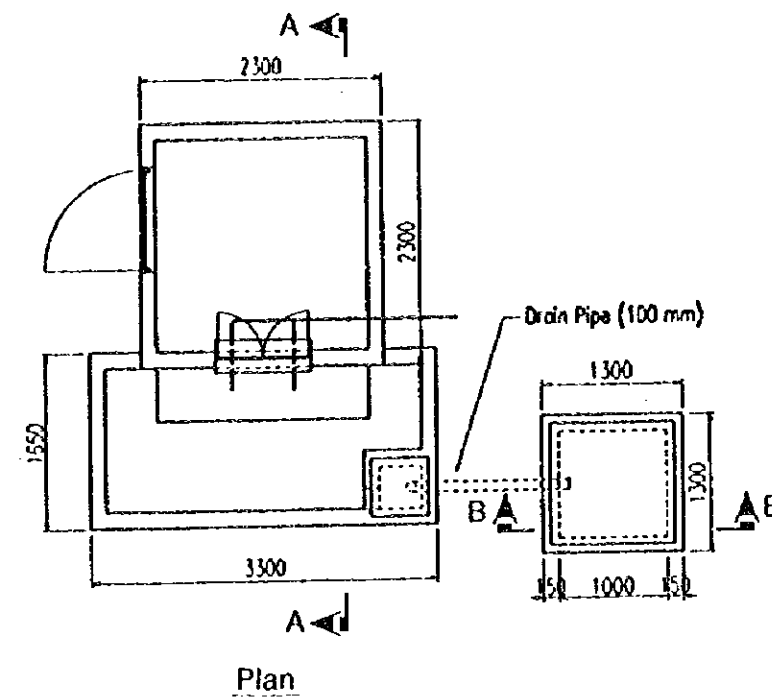


No.	Facility
1	Sedimentation Unit
2	Filters
3	Back Wash Tank
4	Composite Treatment Unit I
5	Composite Treatment Unit II
6	Electric Transformer
7	Alum Mixing Tank
8	Outlet Chamber
9	Chlorine Mixer and Dosier
10	Underground Reservoir I
11	Underground Reservoir II
12	Underground Reservoir III
13	Office/Laboratory
14	Staff House
15	Mechanical Store
16	Store for pipes and fittings
17	Chemical Store
18	Hydrological Store

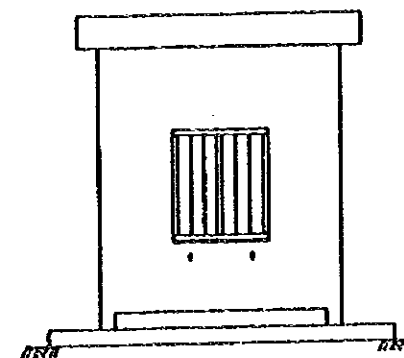


Break Pressure Tank

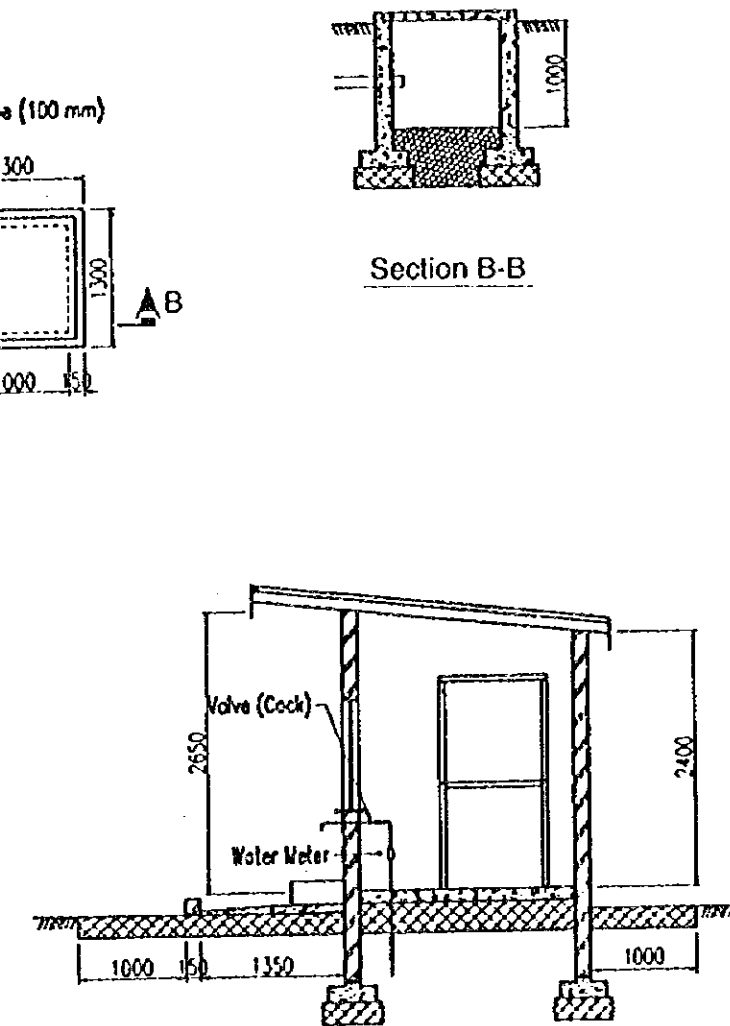
Not to Scale



Plan






Elevation

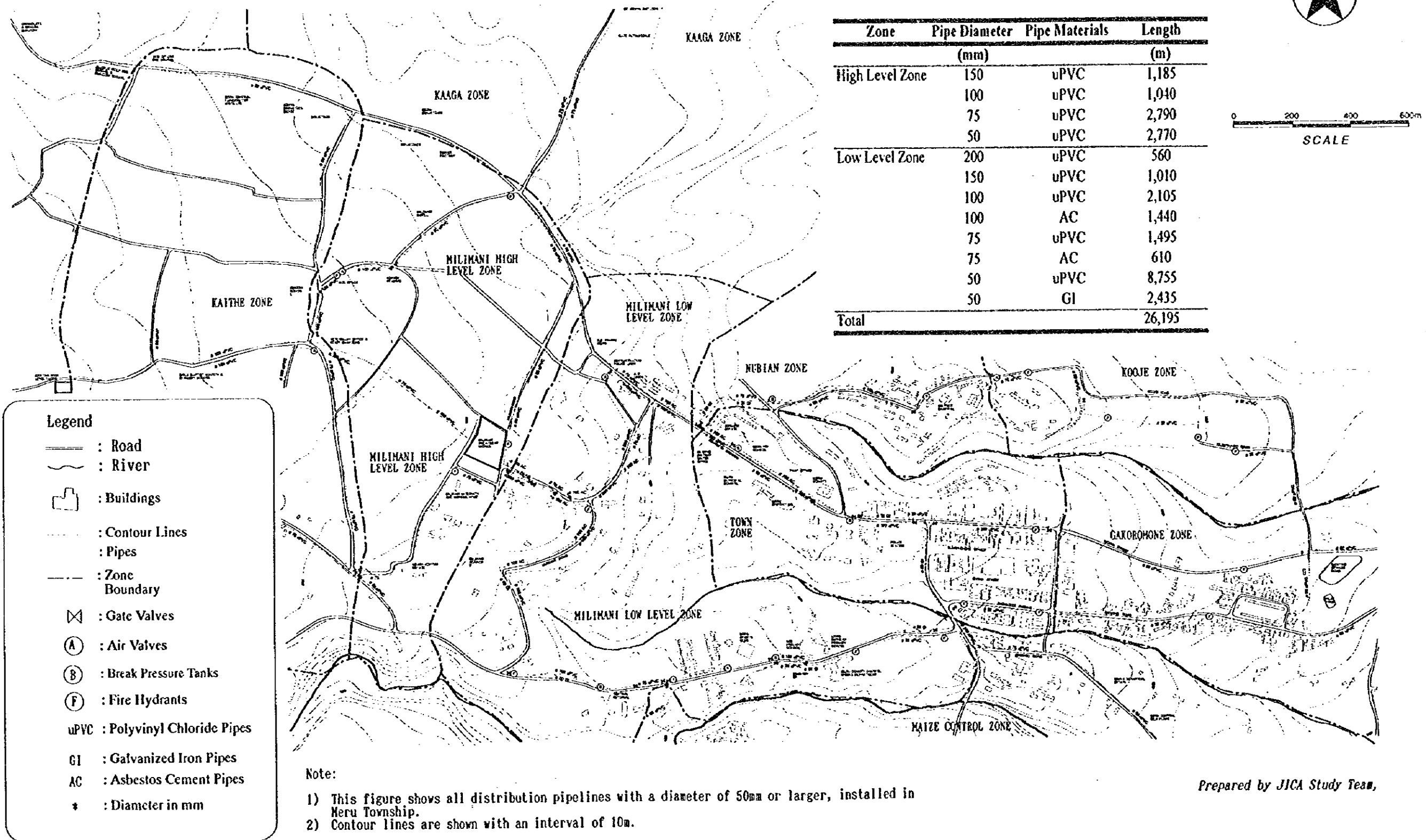


Section B-B

Section A-A

-  Gravel
-  Concrete
-  Brick

Kiosk



Q

Q

Q

D

D

D

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