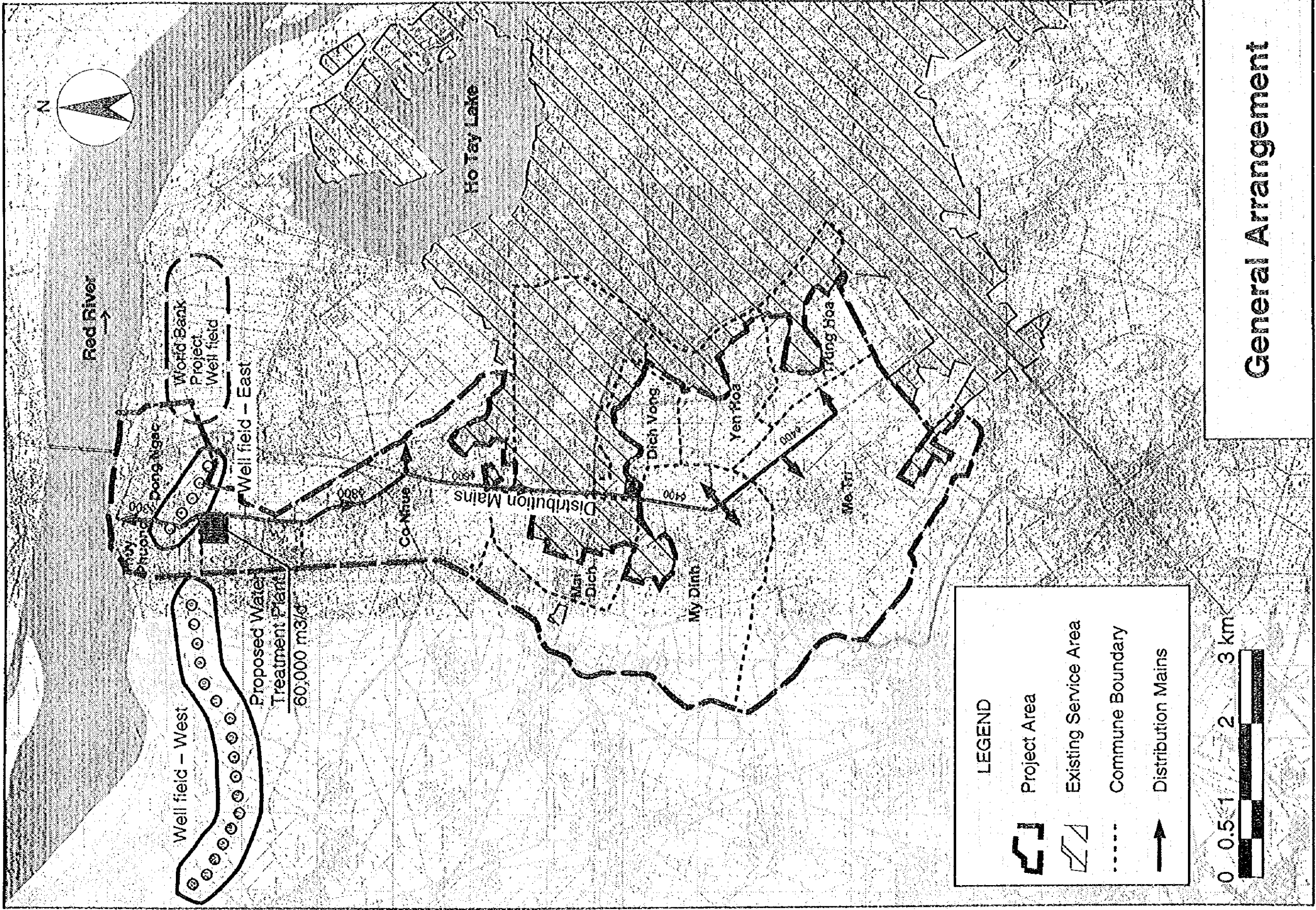


**APPENDIX (H) DRAWINGS PREPARED IN F/S**

- H-1 General Arrangement
- H-2 Water Source
- H-3 Water Treatment Plant
- H-4 Distribution Networks

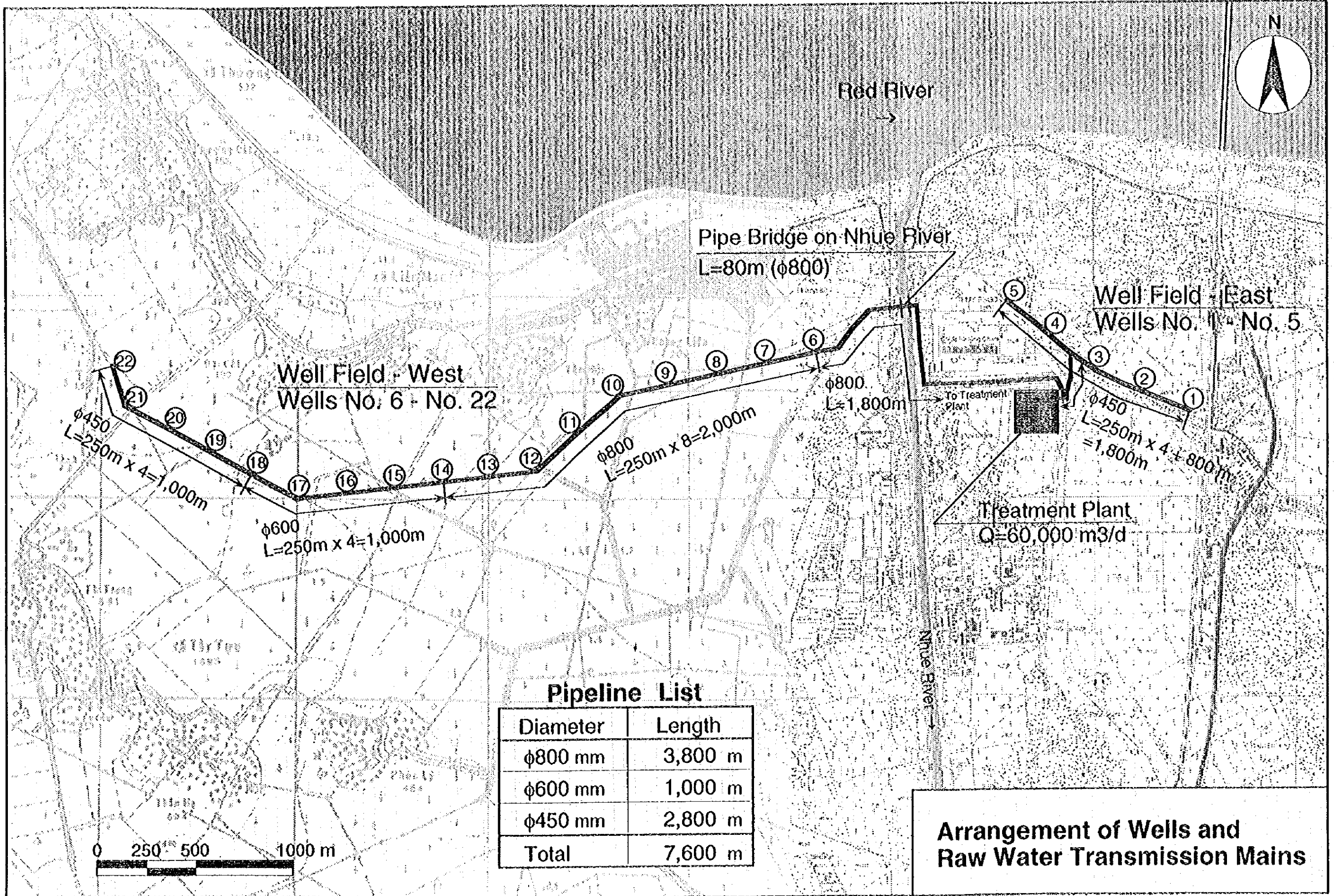
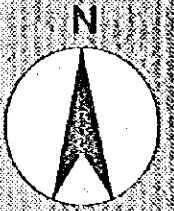
**APPENDIX H-1      General Arrangement**



General Arrangement

**APPENDIX H-2**

**Water Source**



Well Field - West  
Wells No. 6 - No. 22

Well Field - East  
Wells No. 1 - No. 5

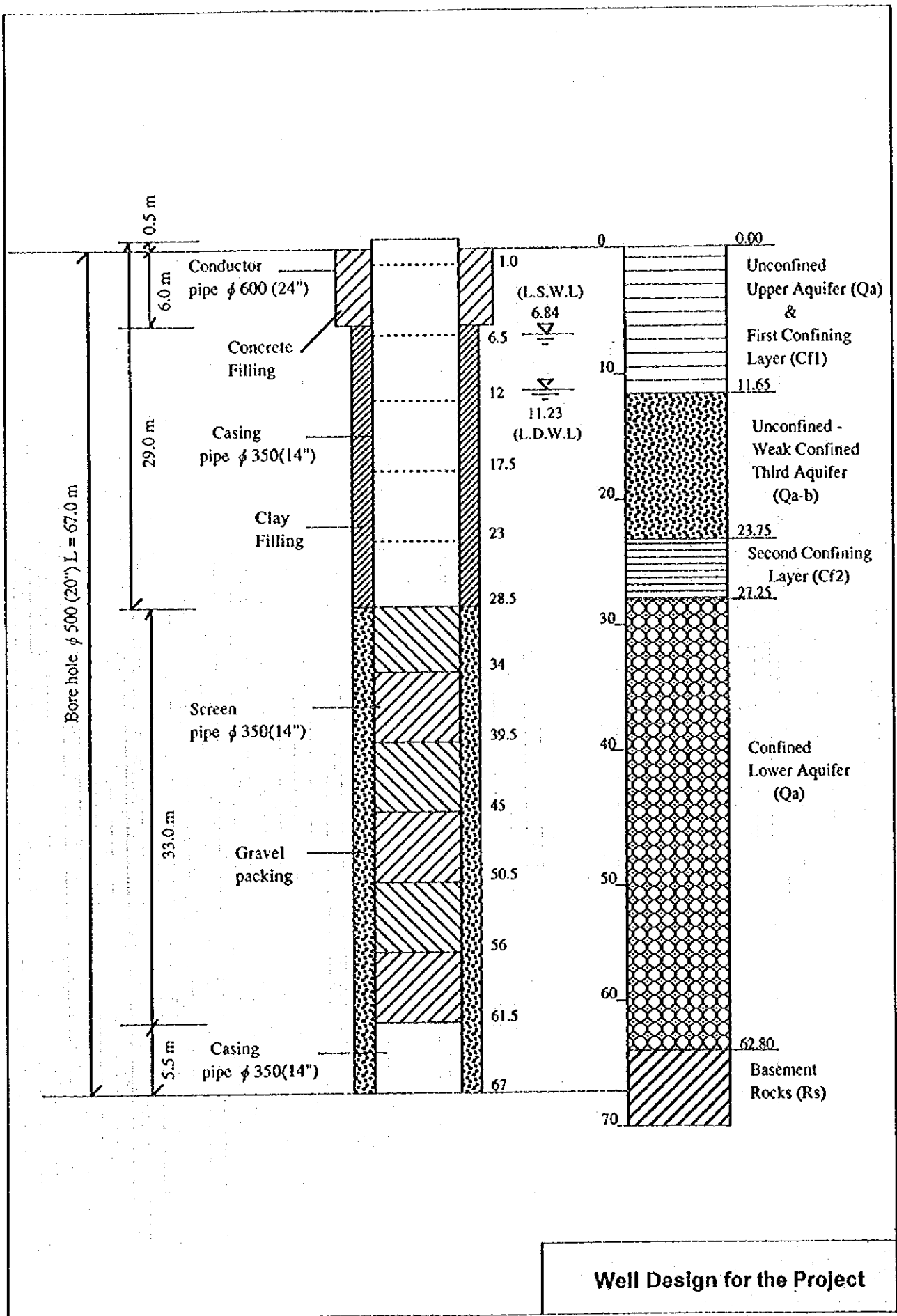
Pipe Bridge on Nhue River  
L=80m (phi800)

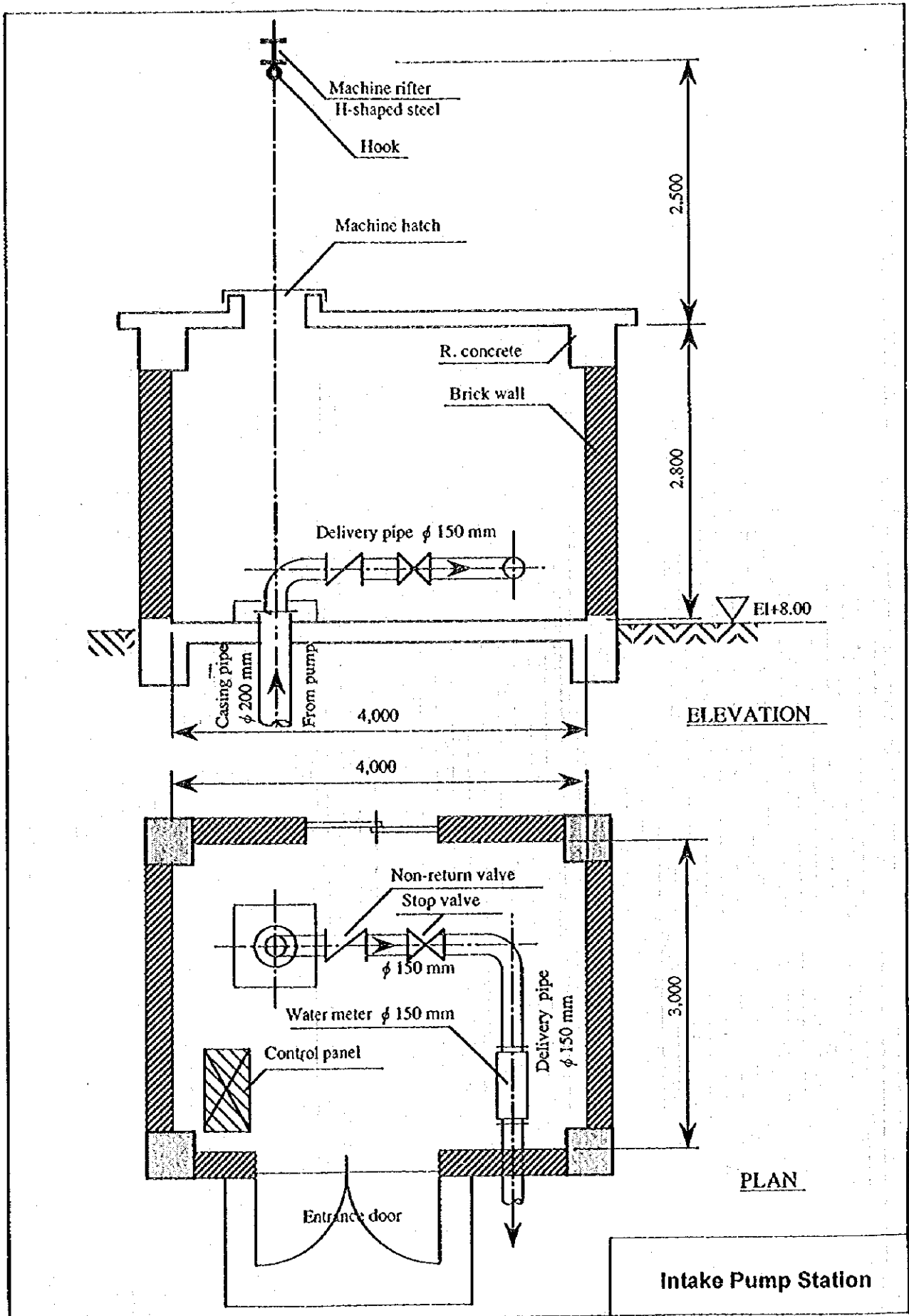
Treatment Plant  
Q=60,000 m<sup>3</sup>/d

**Pipeline List**

Diameter	Length
phi800 mm	3,800 m
phi600 mm	1,000 m
phi450 mm	2,800 m
<b>Total</b>	<b>7,600 m</b>

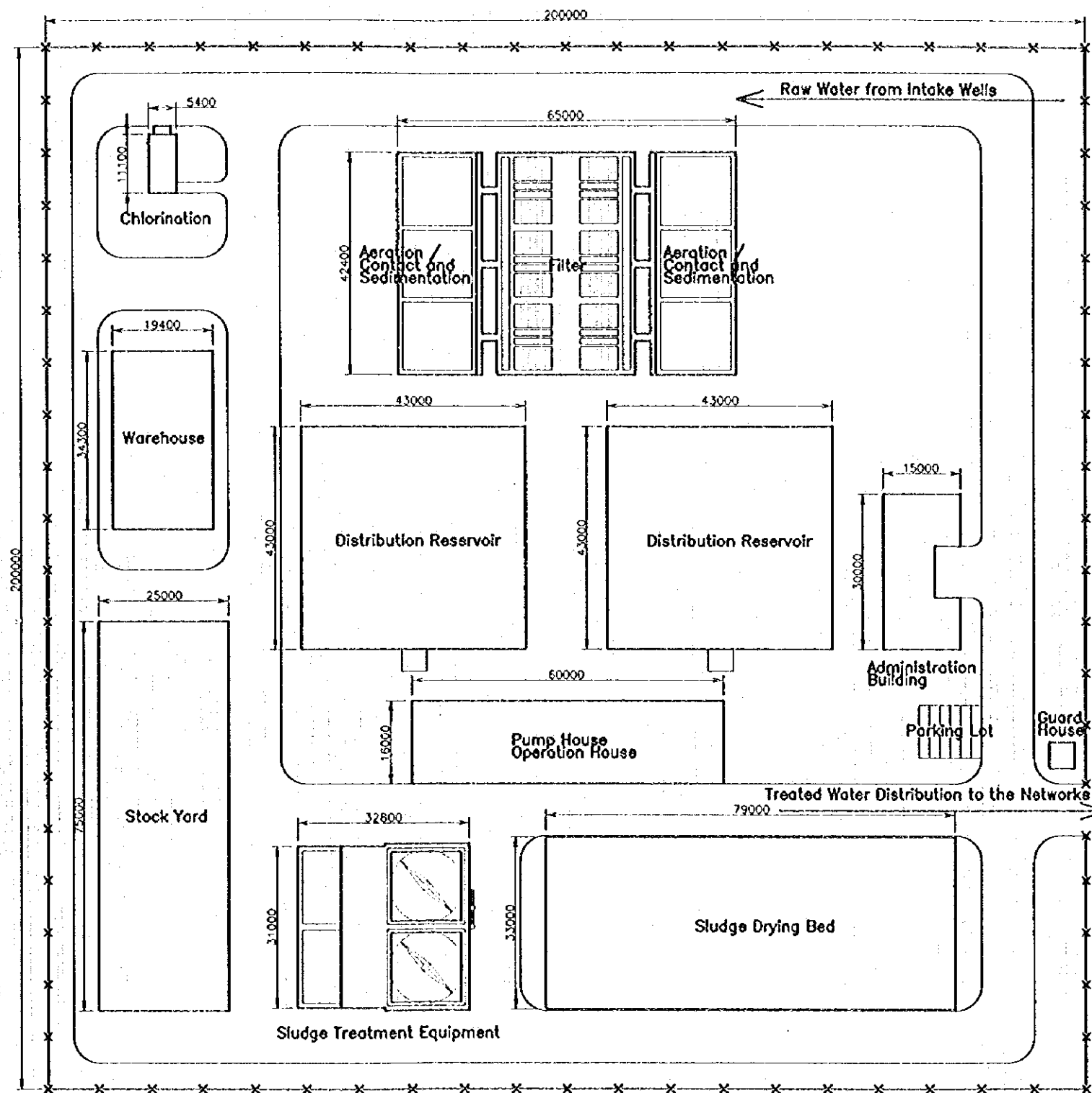
**Arrangement of Wells and Raw Water Transmission Mains**



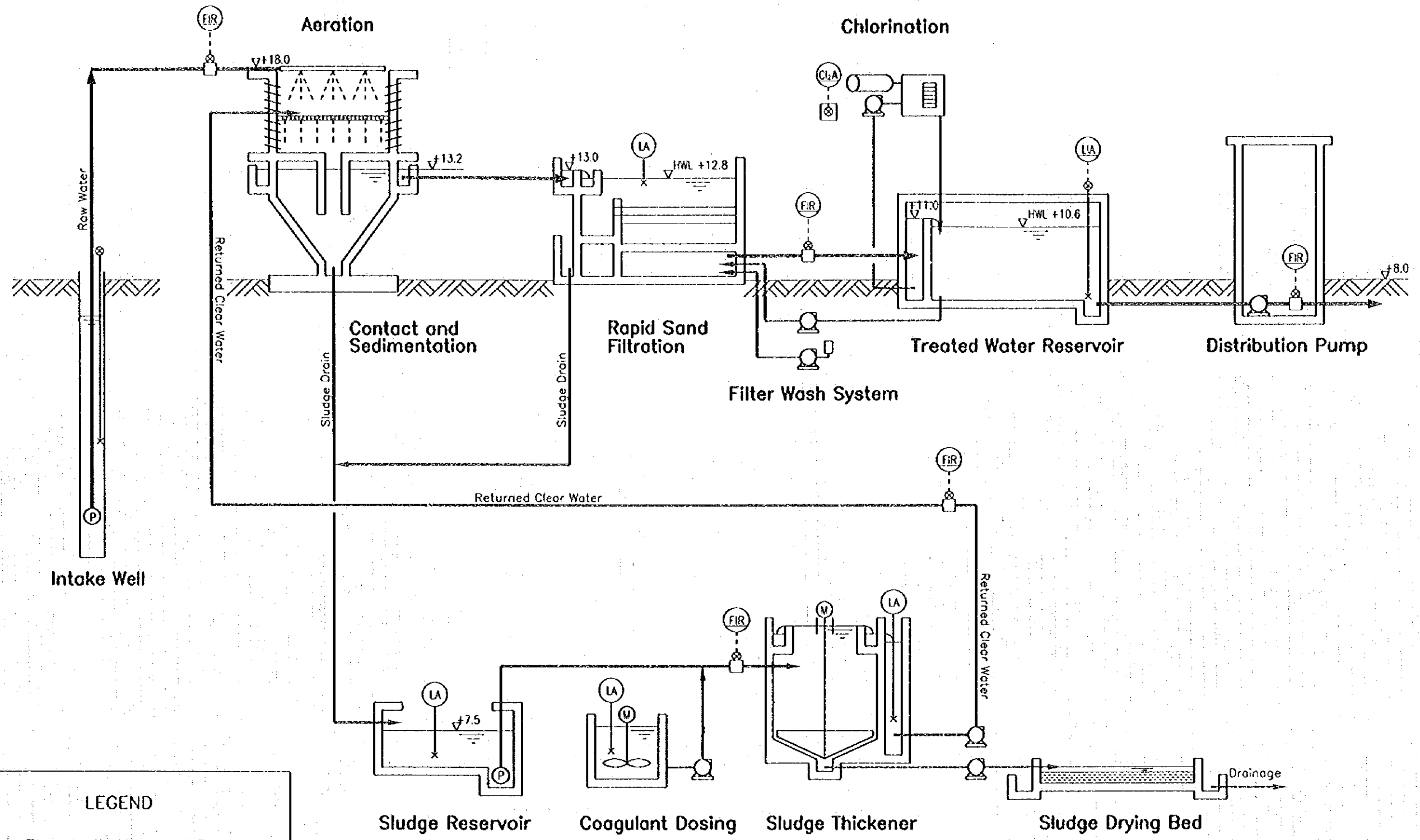


**APPENDIX H-3      Water Treatment Plant**





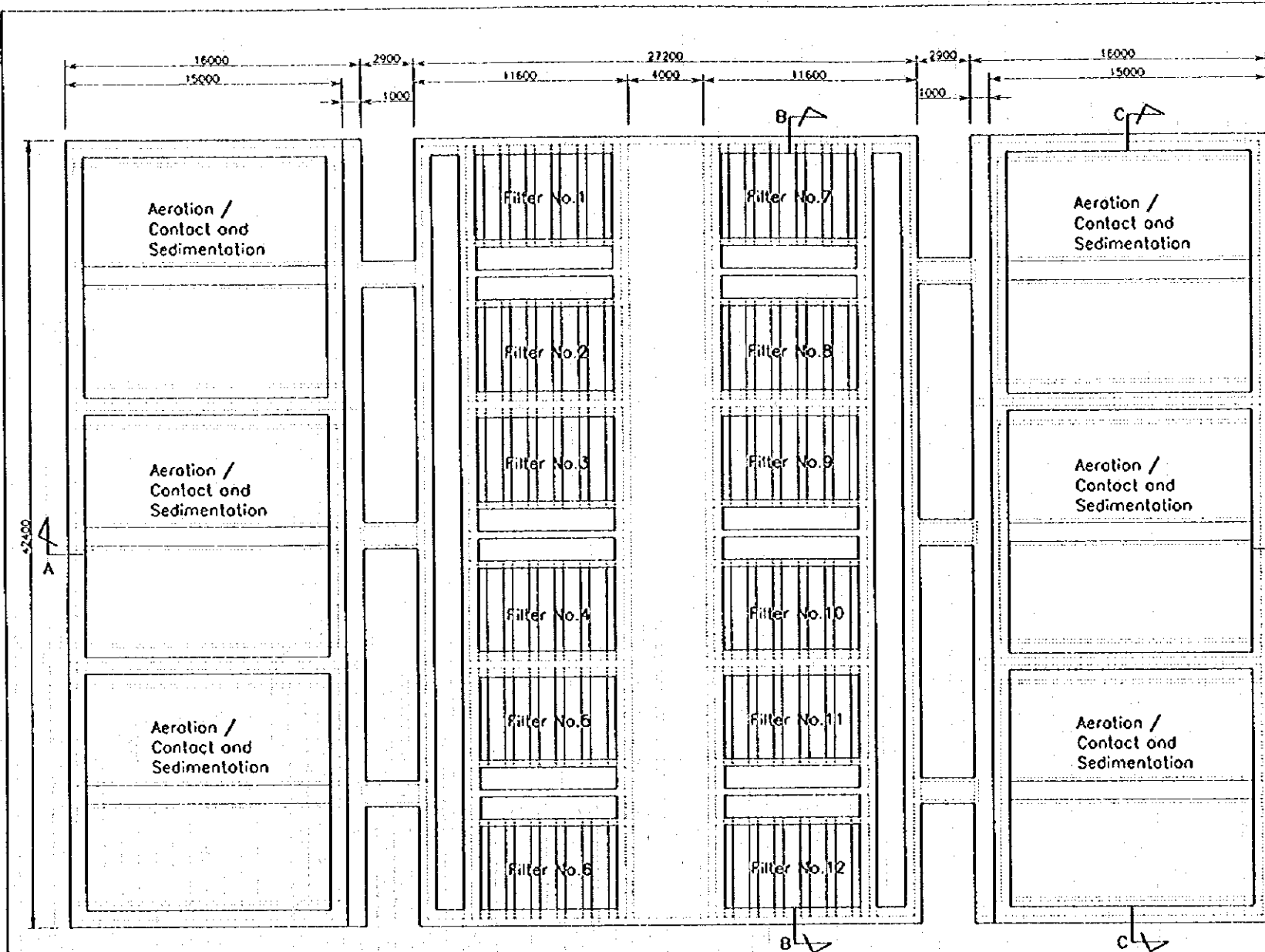
The Study on Hanoi Water Supply Systems in the Socialist Republic of Viet Nam		
Draw. Name Layout Plan of Treatment Plant (Q=60,000 m <sup>3</sup> /d)		
JUNE 1997	Scale 1/1000	Draw. No.
JAPAN INTERNATIONAL COOPERATION AGENCY		



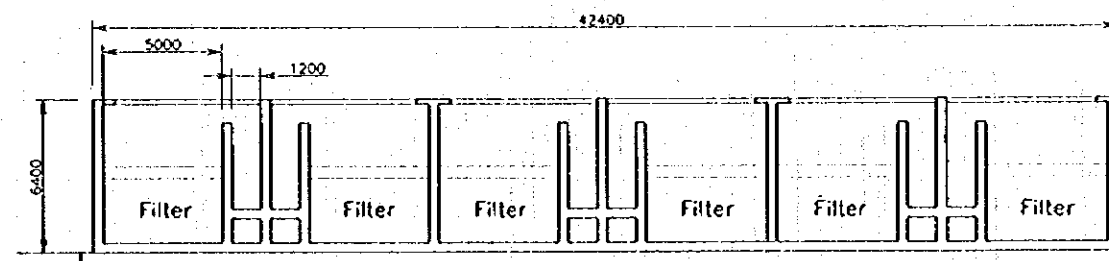
**LEGEND**

(FIR)	Flow Indicator and Recorder
(FI)	Flow Indicator
(LIA)	Level Indicator and Alarm
(LA)	Level Alarm
(CLA)	Chlorine Leak Detector

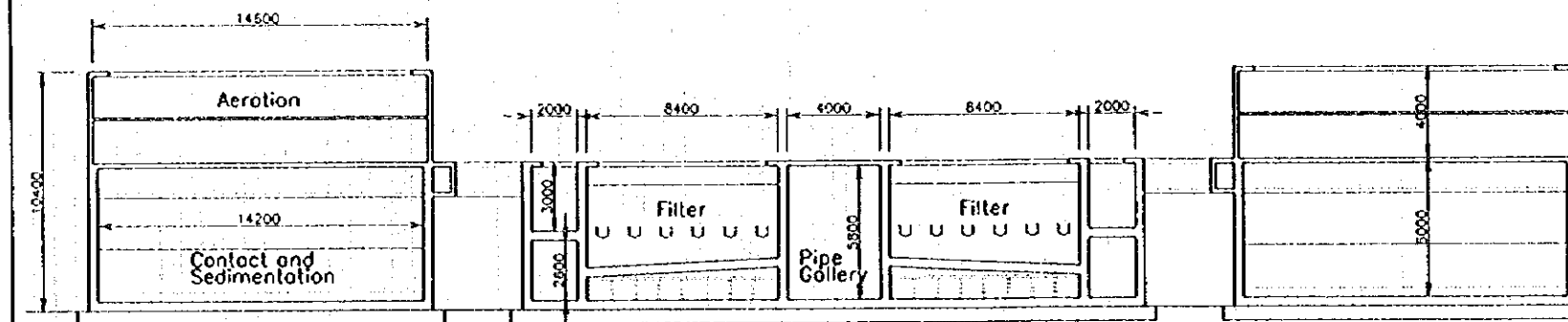
The Study on Hanoi Water Supply Systems in the Socialist Republic of Viet Nam		
Draw. Name Treatment System Flow Sheet		
JUNE 1997	Scale Non	Draw. No.
JAPAN INTERNATIONAL COOPERATION AGENCY		



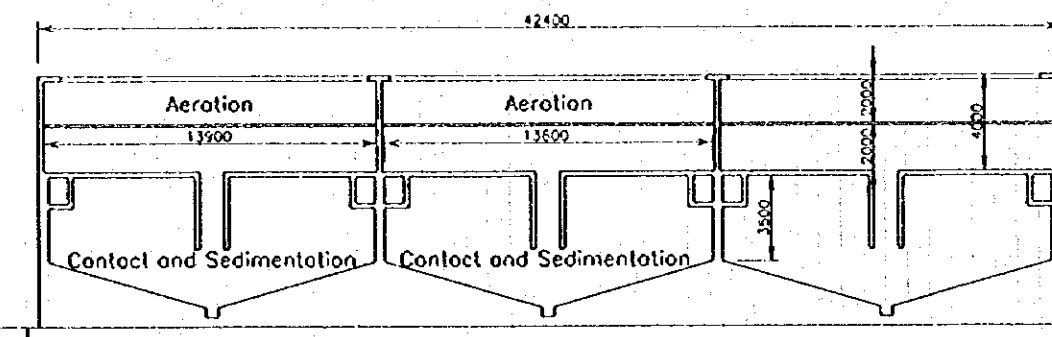
Plan



Section B - B

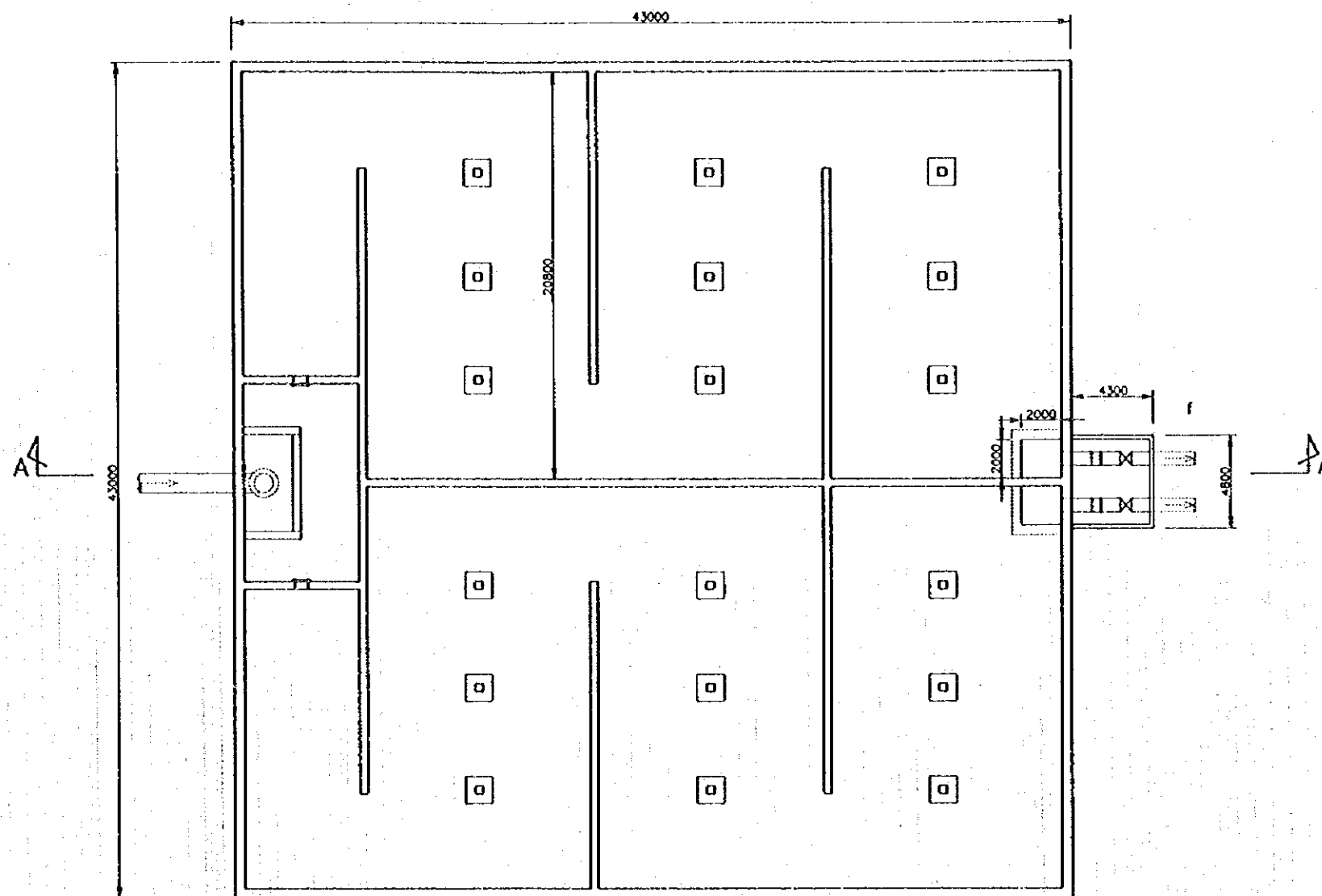


Section A - A

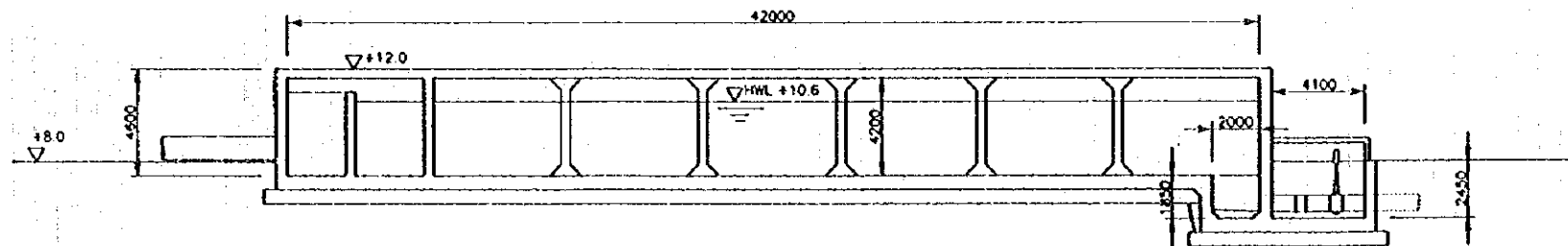


Section C - C

The Study on Hanoi Water Supply Systems in the Socialist Republic of Viet Nam		
Draw. Name Aeration / Contact and Sedimentation / Filter		
JUNE 1997	Scale 1/300	Draw. No.
JAPAN INTERNATIONAL COOPERATION AGENCY		

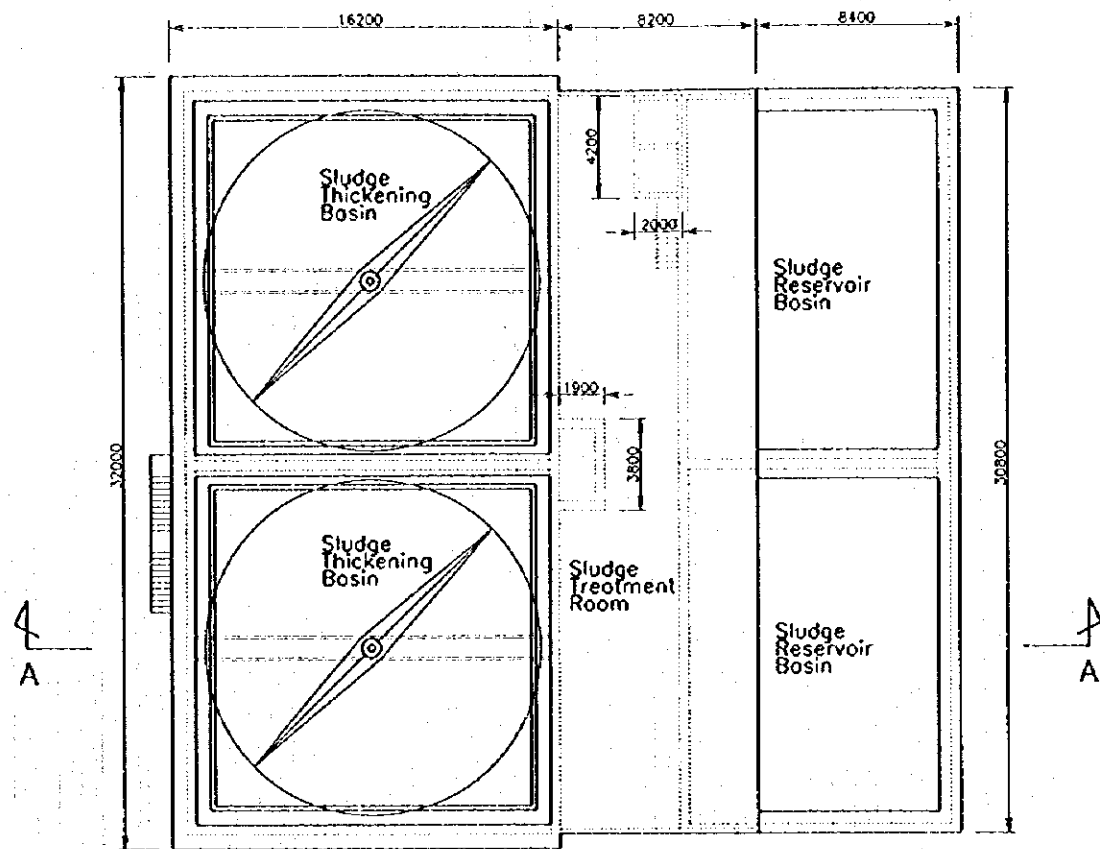


Plan

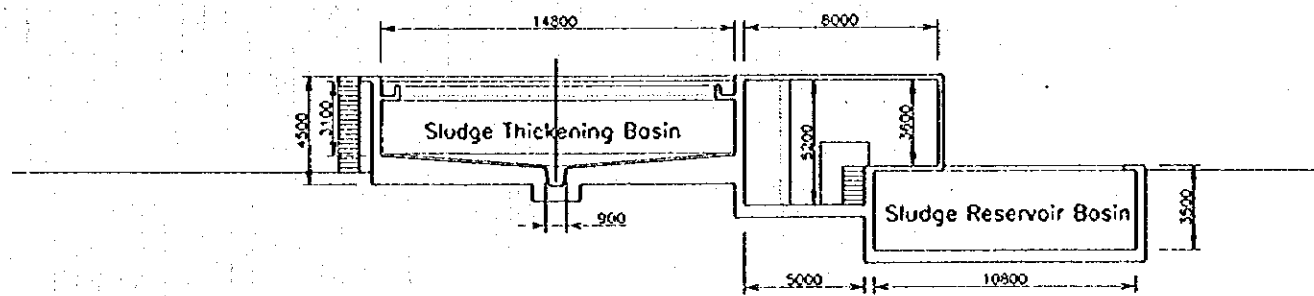


Section A-A

The Study on Hanoi Water Supply Systems in the Socialist Republic of Viet Nam		
Draw. Name		Distribution Reservoir
JUNE 1997	Scale 1/300	Draw. No.
JAPAN INTERNATIONAL COOPERATION AGENCY		

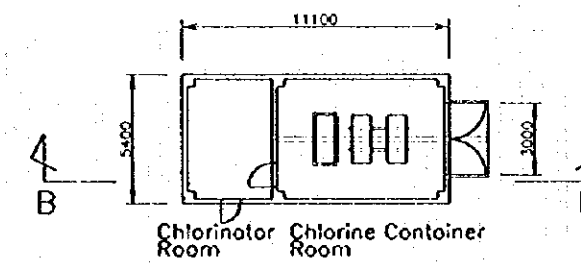


Plan

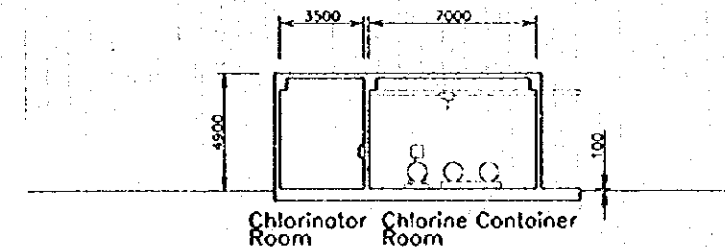


Section A - A

SLUDGE TREATMENT EQUIPMENT



Plan

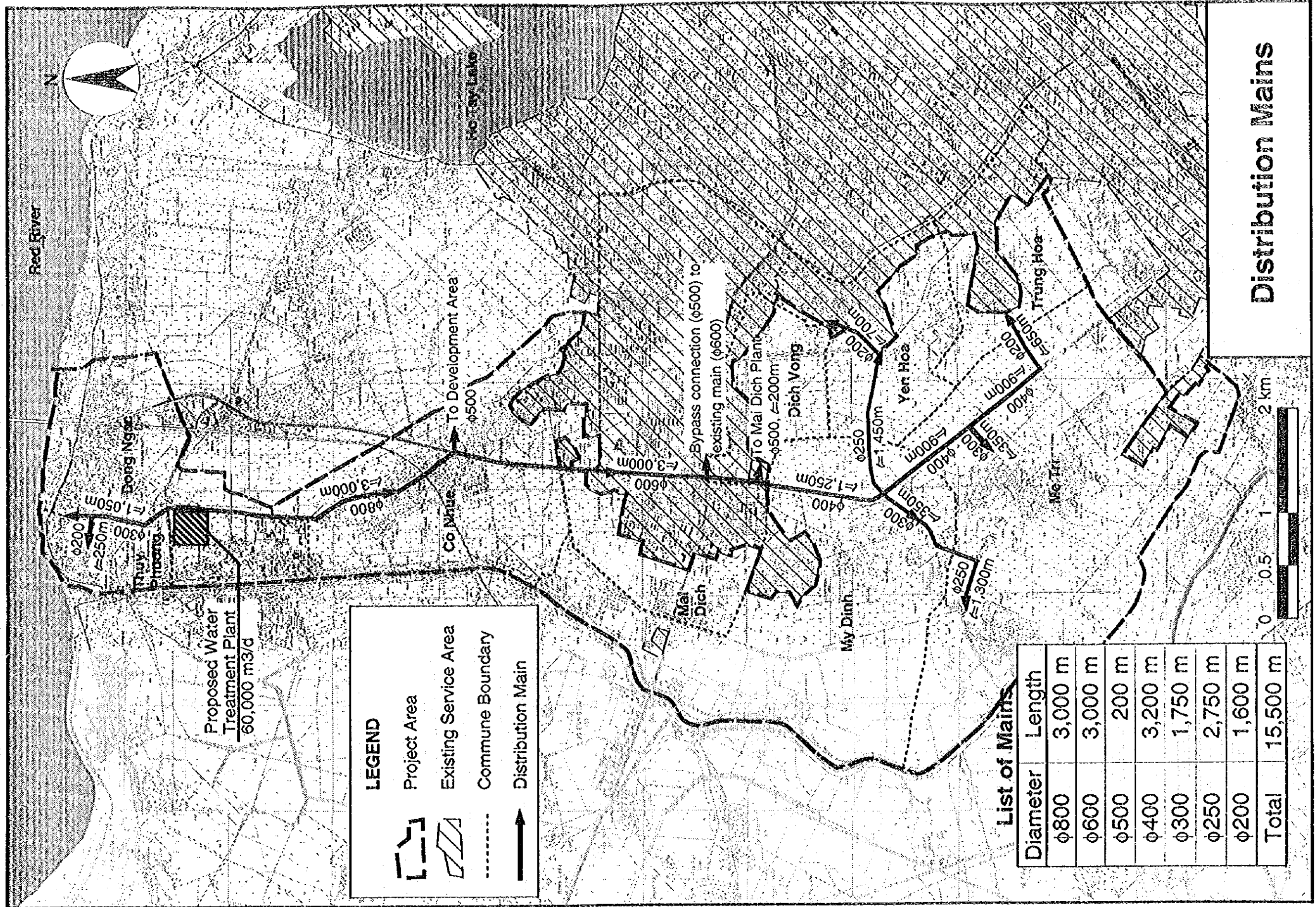


Section B - B

CHLORINATION EQUIPMENT



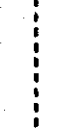

The Study on Hanoi Water Supply Systems in the Socialist Republic of Viet Nam		
Draw. Name	Sludge Treatment / Chlorination	
JUNE 1997	Scale 1/300	Draw. No.
JAPAN INTERNATIONAL COOPERATION AGENCY		

**APPENDIX H-4      Distribution Networks**



Proposed Water Treatment Plant  
60,000 m<sup>3</sup>/d

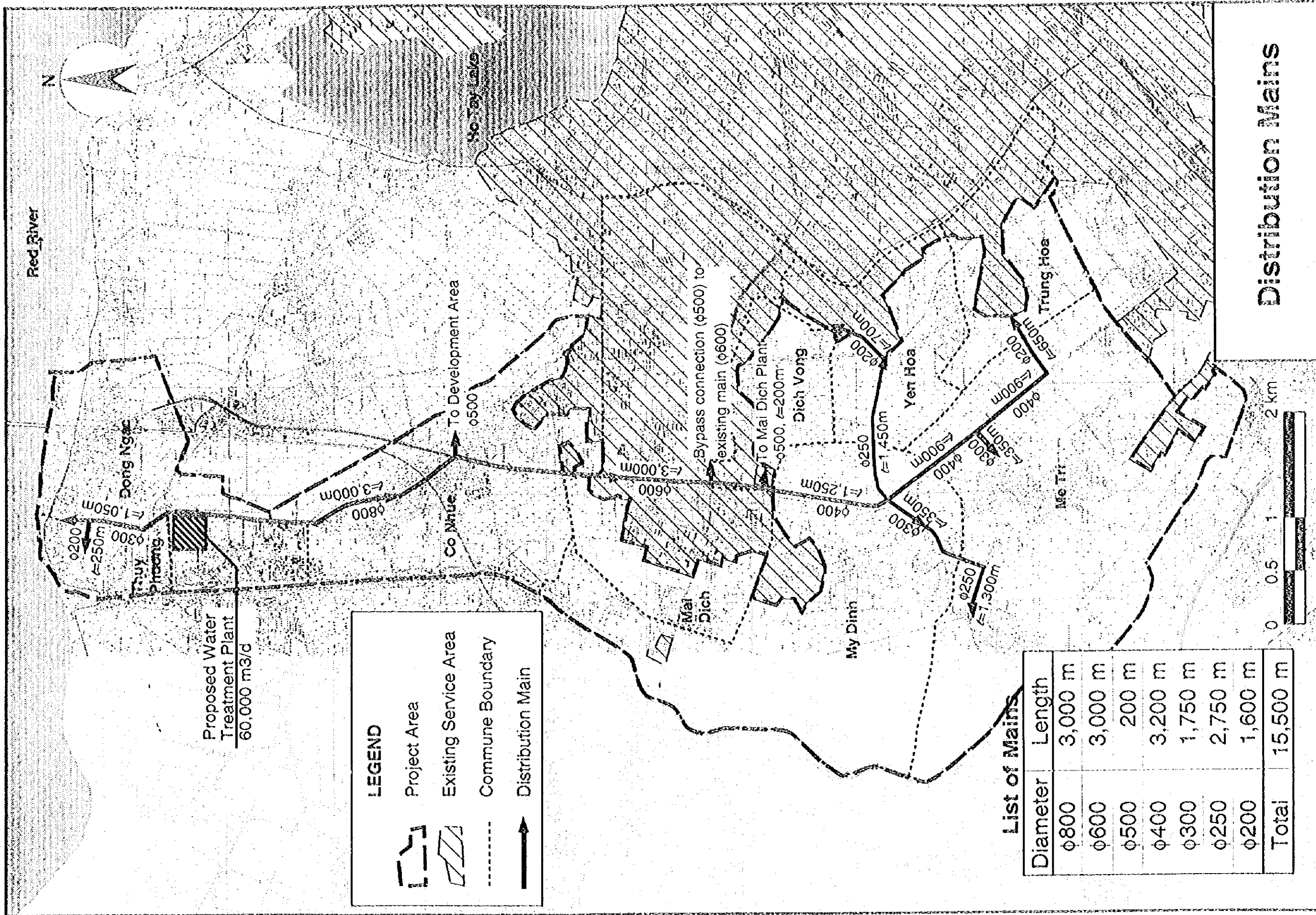
**LEGEND**

-  Project Area
-  Existing Service Area
-  Commune Boundary
-  Distribution Main

**List of Mains**

Diameter	Length
φ800	3,000 m
φ600	3,000 m
φ500	200 m
φ400	3,200 m
φ300	1,750 m
φ250	2,750 m
φ200	1,600 m
<b>Total</b>	<b>15,500 m</b>

**Distribution Mains**



Proposed Water Treatment Plant  
60,000 m<sup>3</sup>/d

**LEGEND**

- Project Area
- Existing Service Area
- Commune Boundary
- Distribution Main

**List of Mains**

Diameter	Length
φ800	3,000 m
φ600	3,000 m
φ500	200 m
φ400	3,200 m
φ300	1,750 m
φ250	2,750 m
φ200	1,600 m
<b>Total</b>	<b>15,500 m</b>

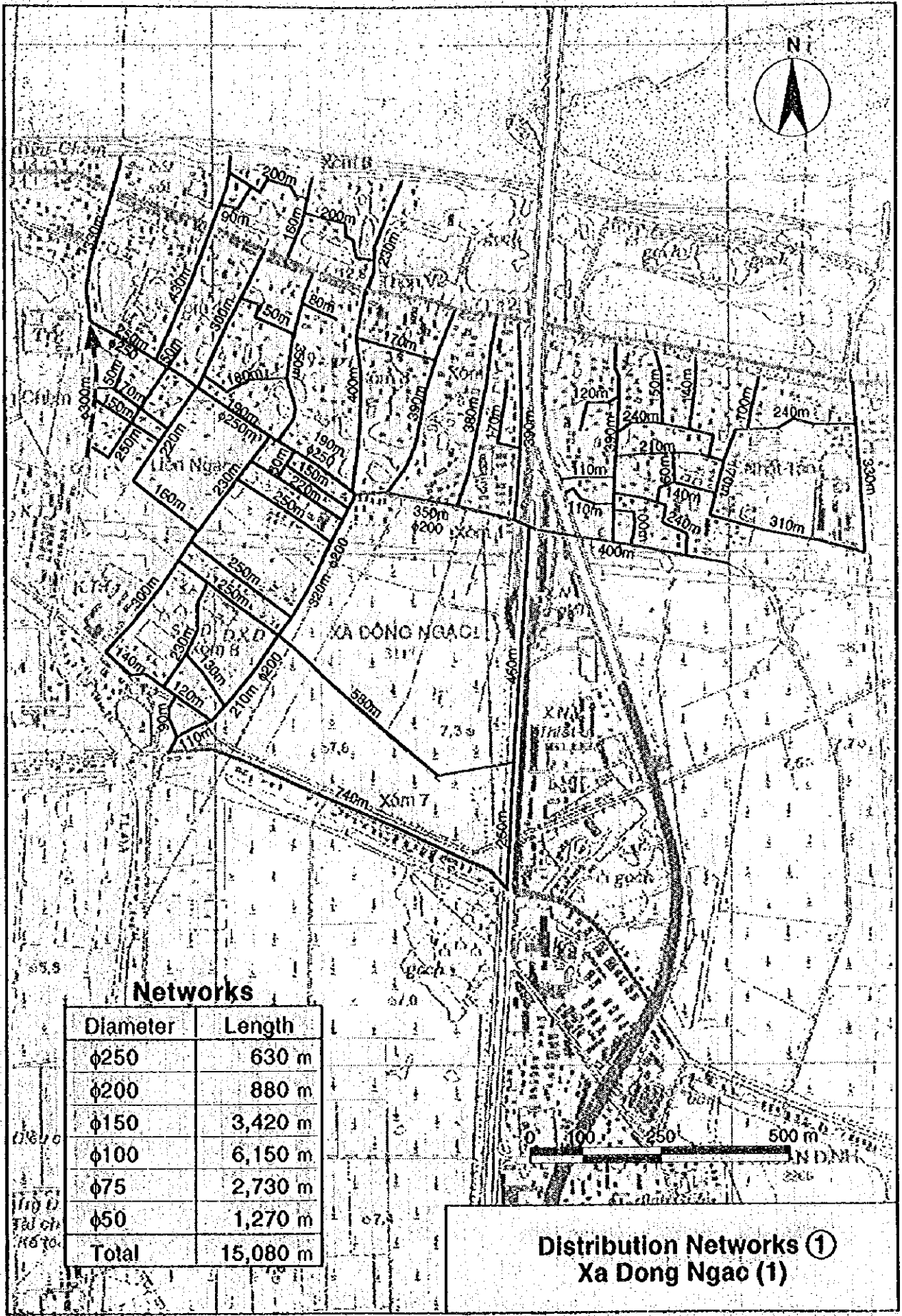
**Distribution Mains**

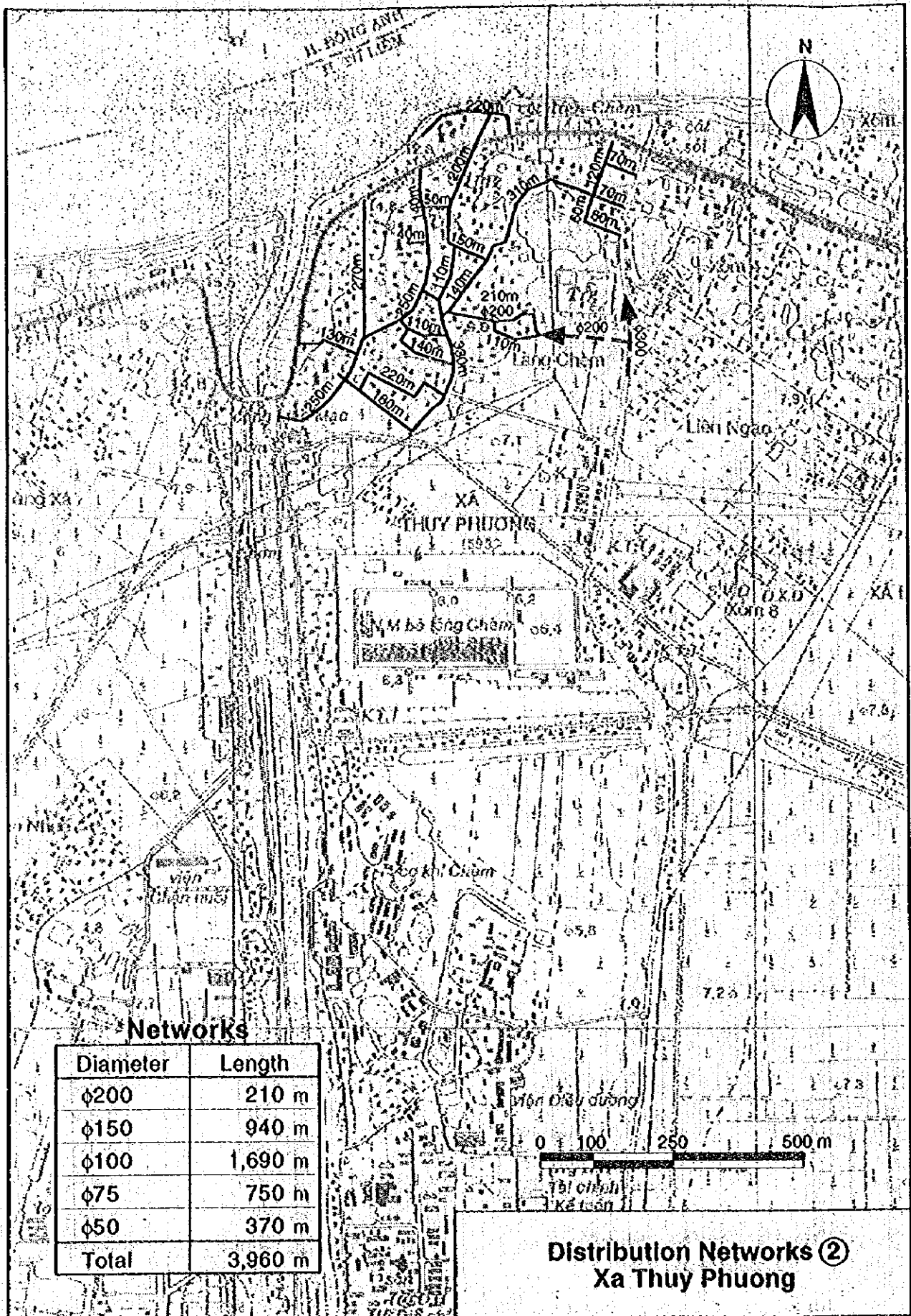


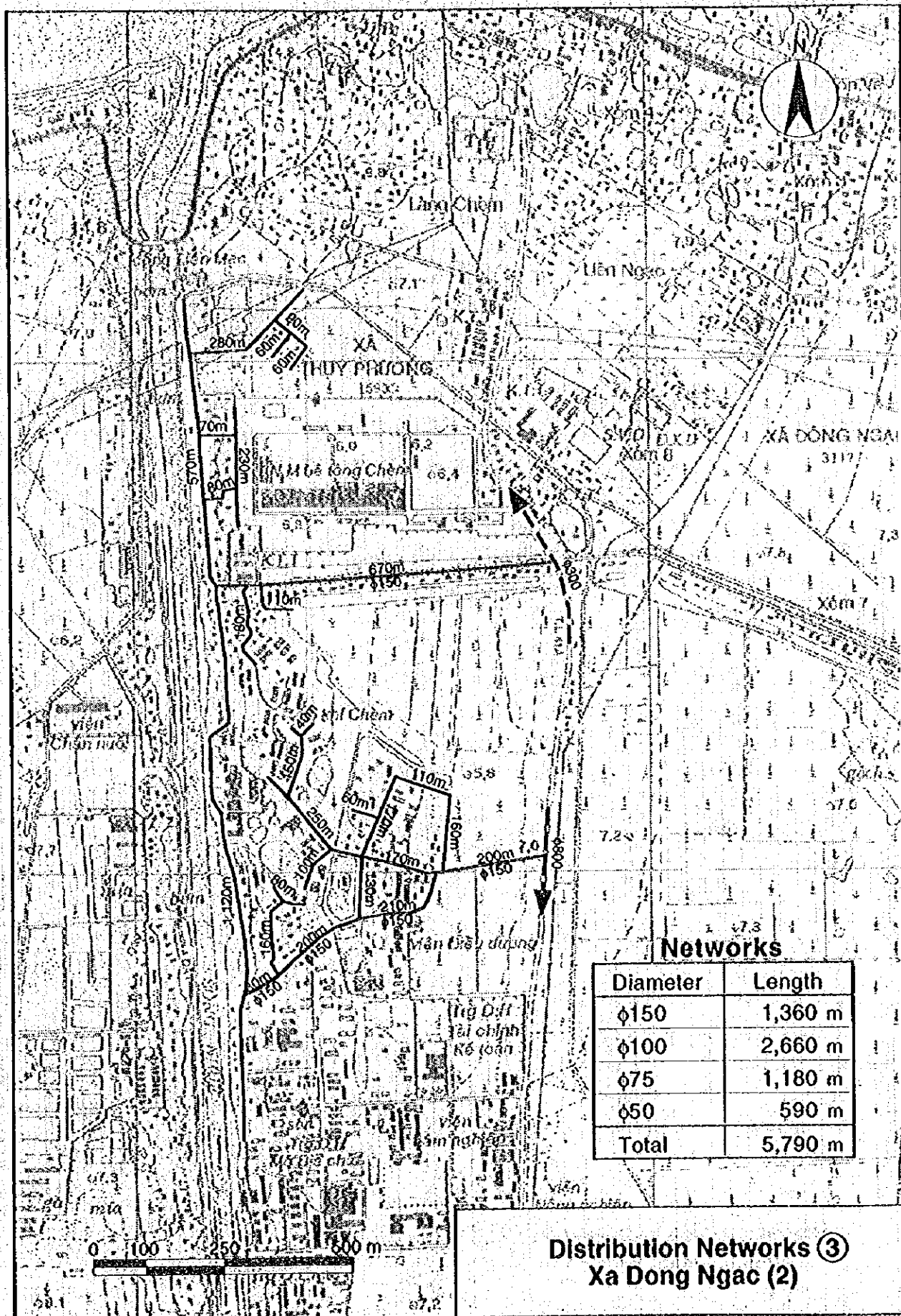
### List of Distribution Networks

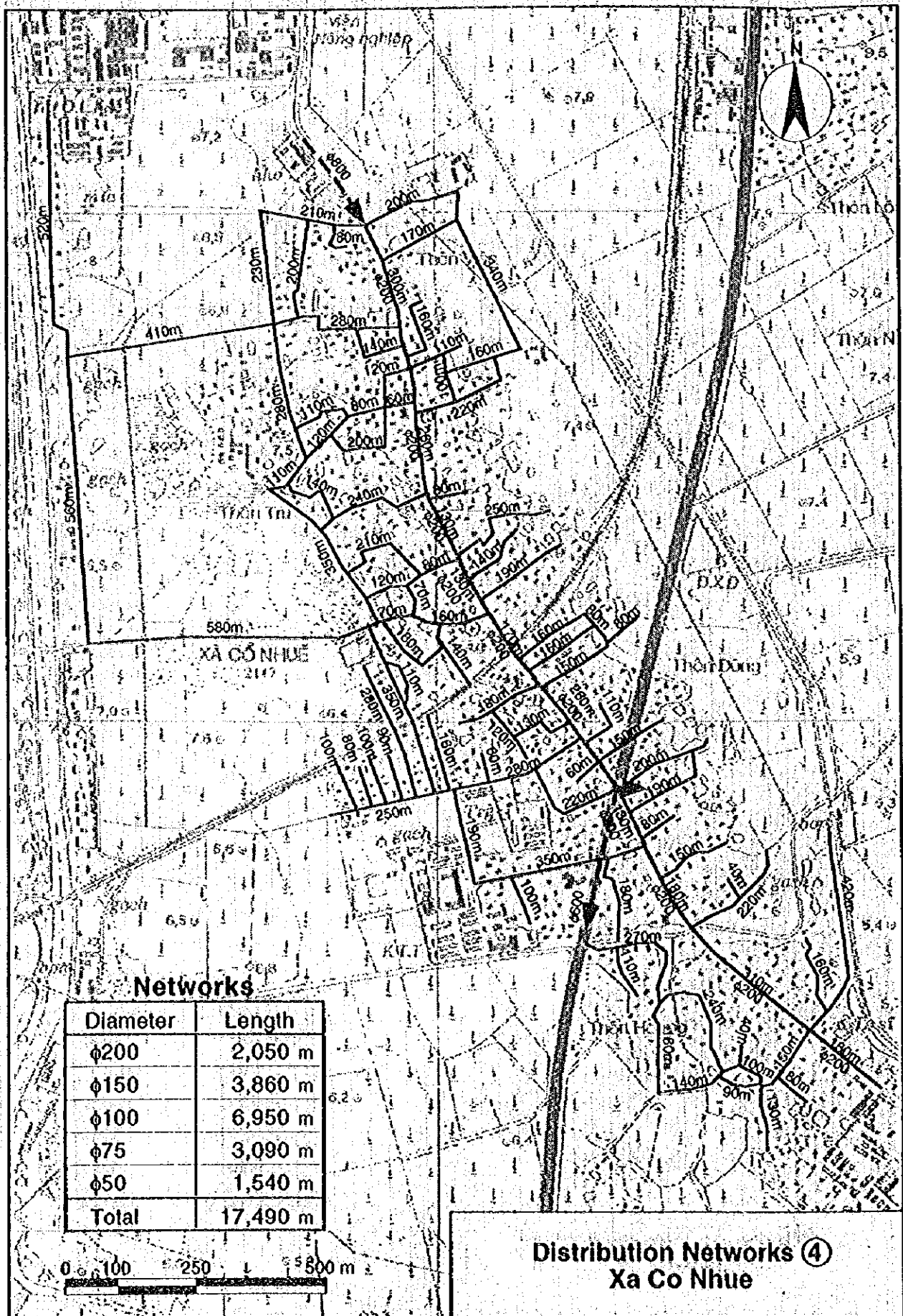
Network	φ250	φ200	φ150	φ100	φ75	φ50	Total Distance
① Dong Ngac (1)	630 m	880 m	3,420 m	6,150 m	2,730 m	1,270 m	15,080 m
② Thuy Phuong	-	210 m	940 m	1,690 m	750 m	370 m	3,960 m
③ Dong Ngac (2)	-	-	1,360 m	2,660 m	1,180 m	590 m	5,790 m
④ Co nhue	-	2,050 m	3,860 m	6,950 m	3,090 m	1,540 m	17,490 m
⑤ My Dinh	-	570 m	940 m	1,700 m	760 m	380 m	4,350 m
⑥ Me Tri (2)	-	720 m	1,050 m	1,900 m	840 m	420 m	4,930 m
⑦ Me Tri (1)	590 m	740 m	2,260 m	4,070 m	1,810 m	950 m	10,420 m
⑧ Others*	-	-	1,650 m	2,980 m	1,320 m	660 m	6,610 m
<b>Total</b>	<b>1,220 m</b>	<b>5,170 m</b>	<b>15,480 m</b>	<b>28,100 m</b>	<b>12,480 m</b>	<b>6,180 m</b>	<b>68,630 m</b>

Note : ⑧ Others consists of Dich Vong, Yen Hoa, Trung Hoa and Mai Dich. Most of their existing inhabited areas have existing distribution pipelines. The networks mentioned in the above list are for future residential areas. Therefore, distances of the networks pipelines in the above list were estimated in proportion to population to be served.

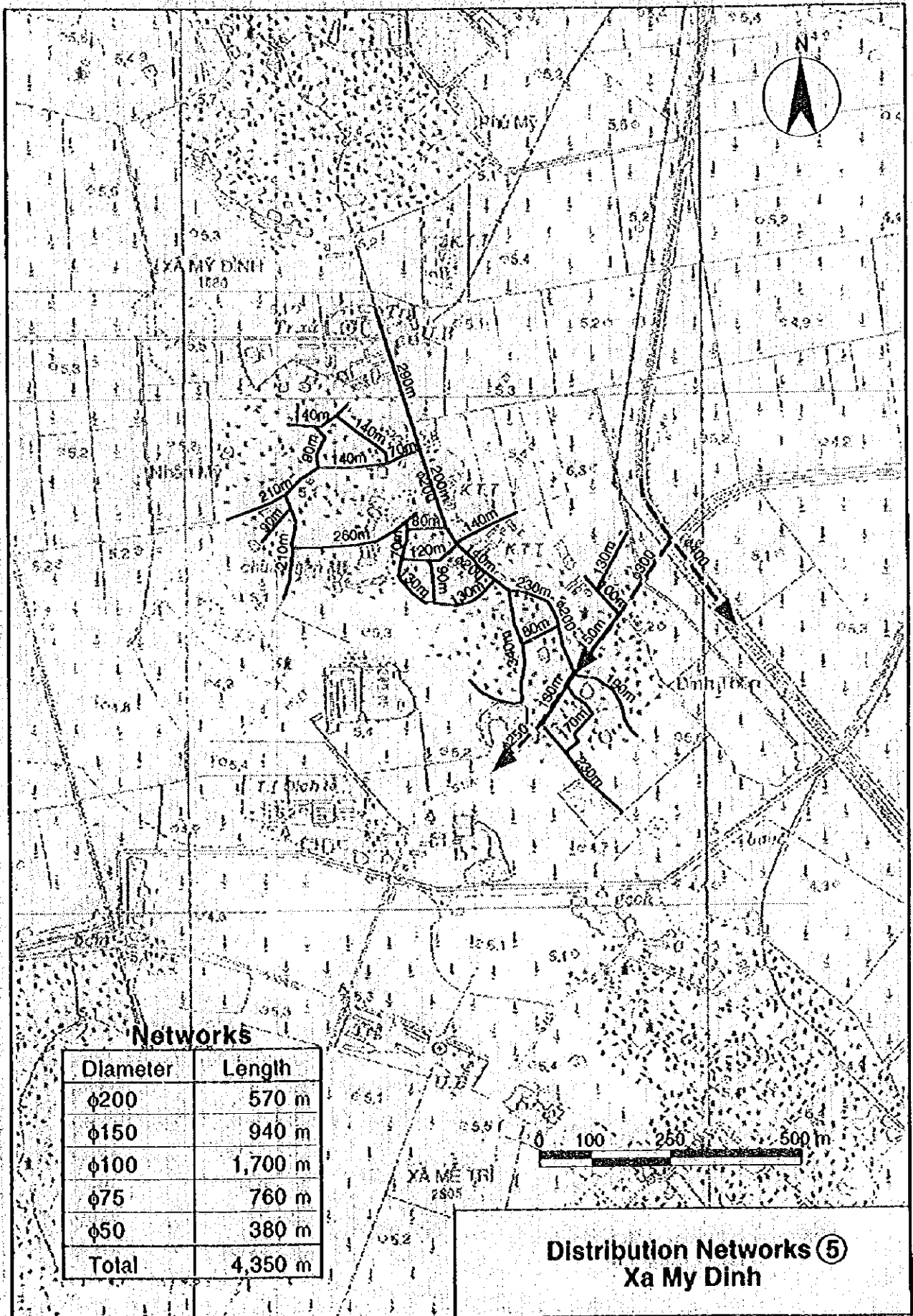


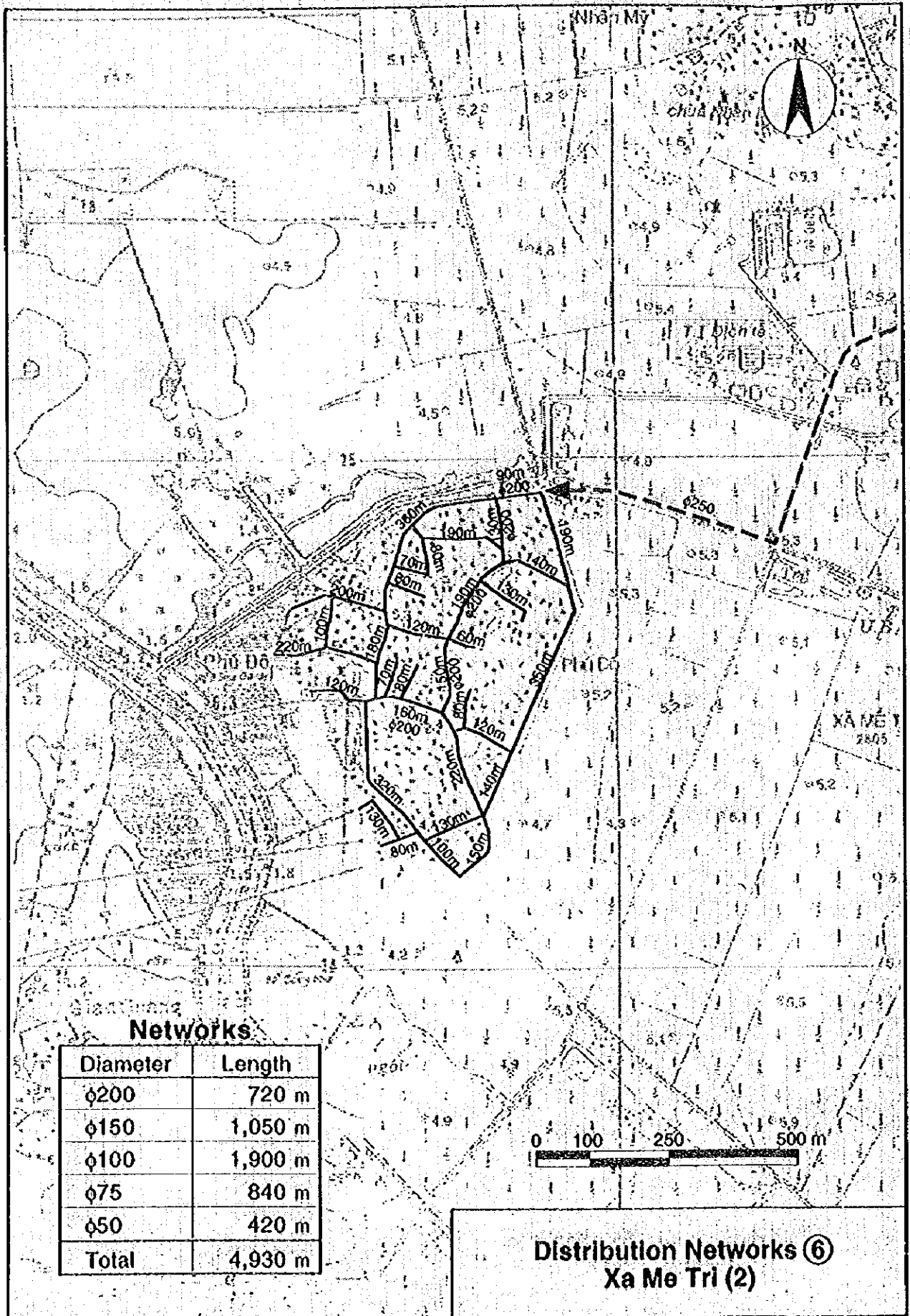


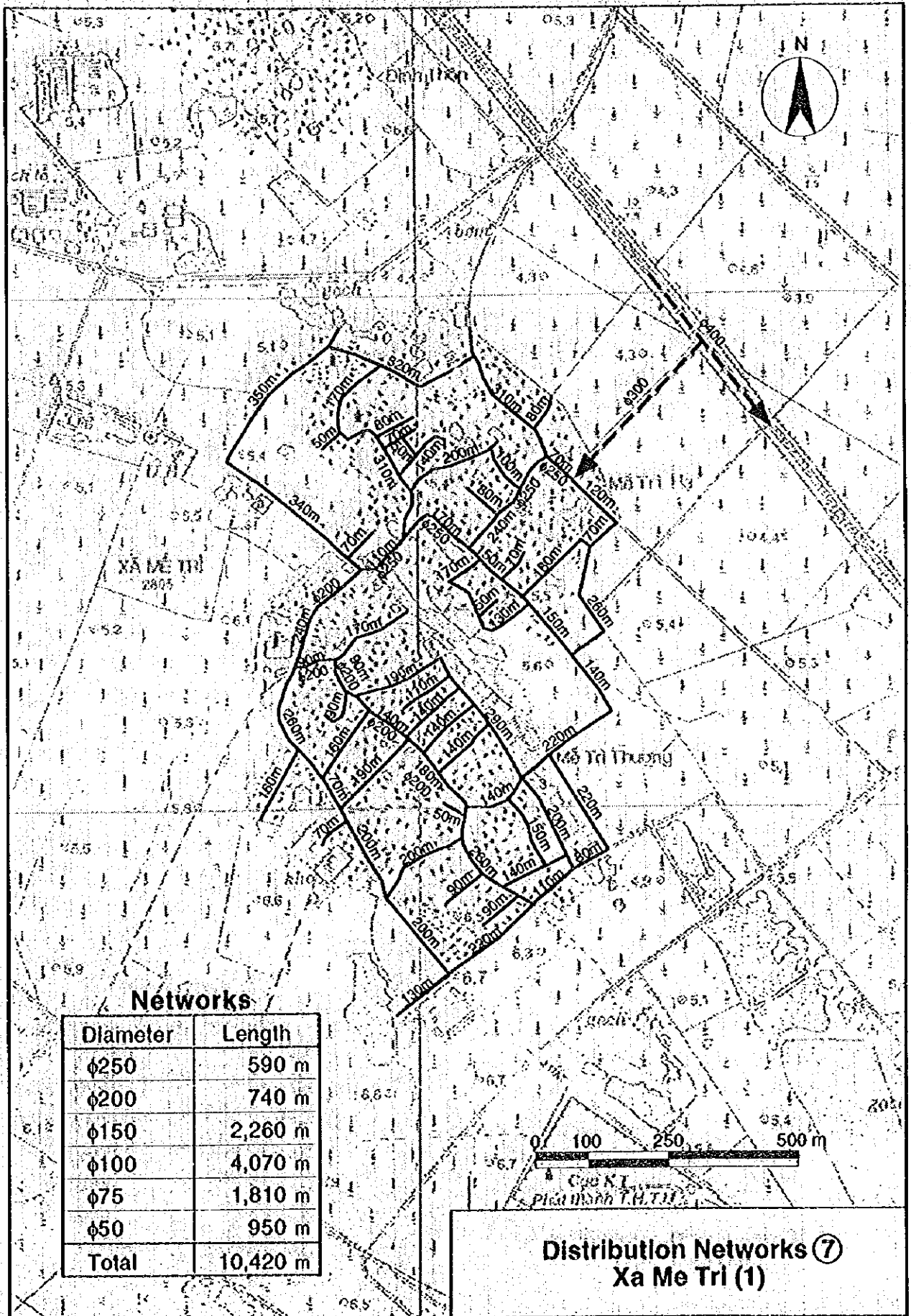




**Distribution Networks ④  
Xa Co Nhue**







**Networks**

Diameter	Length
φ250	590 m
φ200	740 m
φ150	2,260 m
φ100	4,070 m
φ75	1,810 m
φ50	950 m
<b>Total</b>	<b>10,420 m</b>



**Distribution Networks ⑦  
Xa Me Tri (1)**



