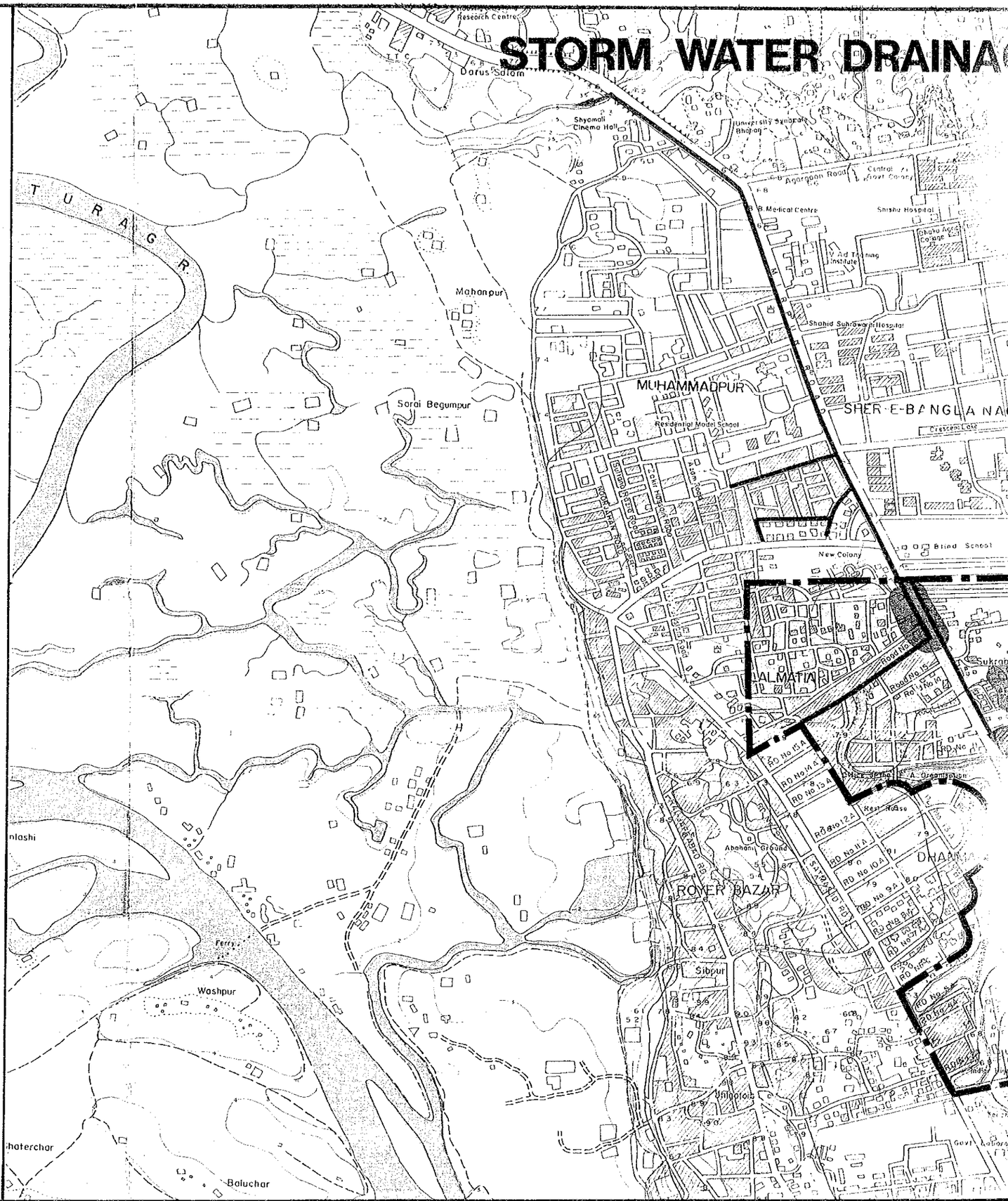
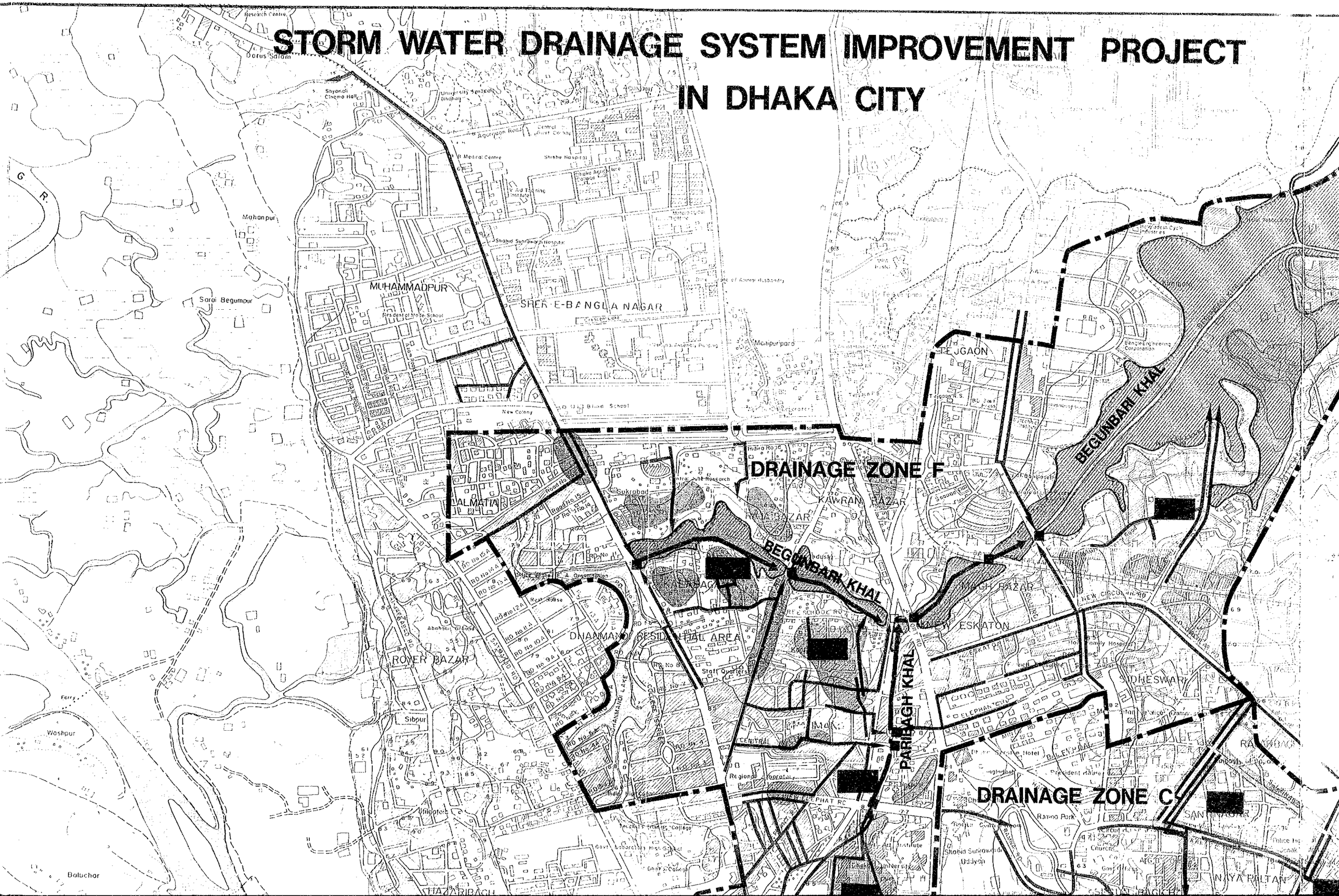
PROPOSED FLOOD PROTECTION AND DRAINAGE FACILITIES IN THE PRIORITY AREA

Facility	Quantity	Description
I. Dike (Earth Embankment)	L=4,800m	H=6.0m x B(Top)=6.0m
II. Pump Station (P.S.)		
P-1 : Rehabilitation of Exist.	1 place	ø=1,000 x 4 Units, Q=9.6m ^{3}/s
P-2 : Additional	1 place	ø=1,000 x 4 Units, Q=9.2m ^{3}/s
III. Gate		
G-1 : Narinda	1 place	H=6.0m x B=6.0m
G-2 : Rajarbagh	1 place	H=6.0m x B=6.0m
IV. Khal Improvement	L=13,100m in Total	-
K-1 : Dholai	L1 = 3,000 m	Box Culvert 1 place
K-2 : Gandaria	L2 = 1,200 m	-
K-3 : Gerani	L3 = 2,100 m	-
K-4 : Segunbagicha	L4 = 3,000 m	Box Culvert / Bridge 13 places
K-5 : Begunbari	L5 = 2,800 m	Box Culvert 5 places
K-6 : Paribagh	L6 = 1,000 m	Box Culvert 3 places
V. Drainage Pipe	L = 12,500m in Total	
D-1 : Narinda	L1 = 2,800 m	Ø- Ave. 3.0mx3.0m , ø=2.8m-1.9m
D-2 : Narinda (Diversion)	L2 = 1,480 m	Ø- 2.9mx2.2m , -
D-3 : Old Railway Road	L3 = 2,500 m	Ø- 3.0mx2.6m , ø=3.0m-1.9m
D-4 : Circular Road	L4 = 540 m	- , ø=1.5m
D-5 : DIT Avenue	L5 = 720 m	- , ø=2.7m-1.9m
D-6 : Santinagar	L6 = 1,050 m	- , ø=2.6m-2.1m
D-7 : Nayatola	L7 = 1,100 m	- , ø=2.8m-2.4m
D-8 : Dhanmondi	L8 = 450 m	- , ø=1.8m
D-9 : Dhaka University	L9 = 1,860 m	- , ø=3.7m-2.1m
VI. Regulating Pond	A = 1.85 km² in Total	
R-1 : Jatrabari Pond	A = 1.38 km²	Storage Capacity : 1.78x10^6 m^3
R-2 : Gandaria Pond	A = 0.47 km²	Storage Capacity : 0.40x10^6 m^3

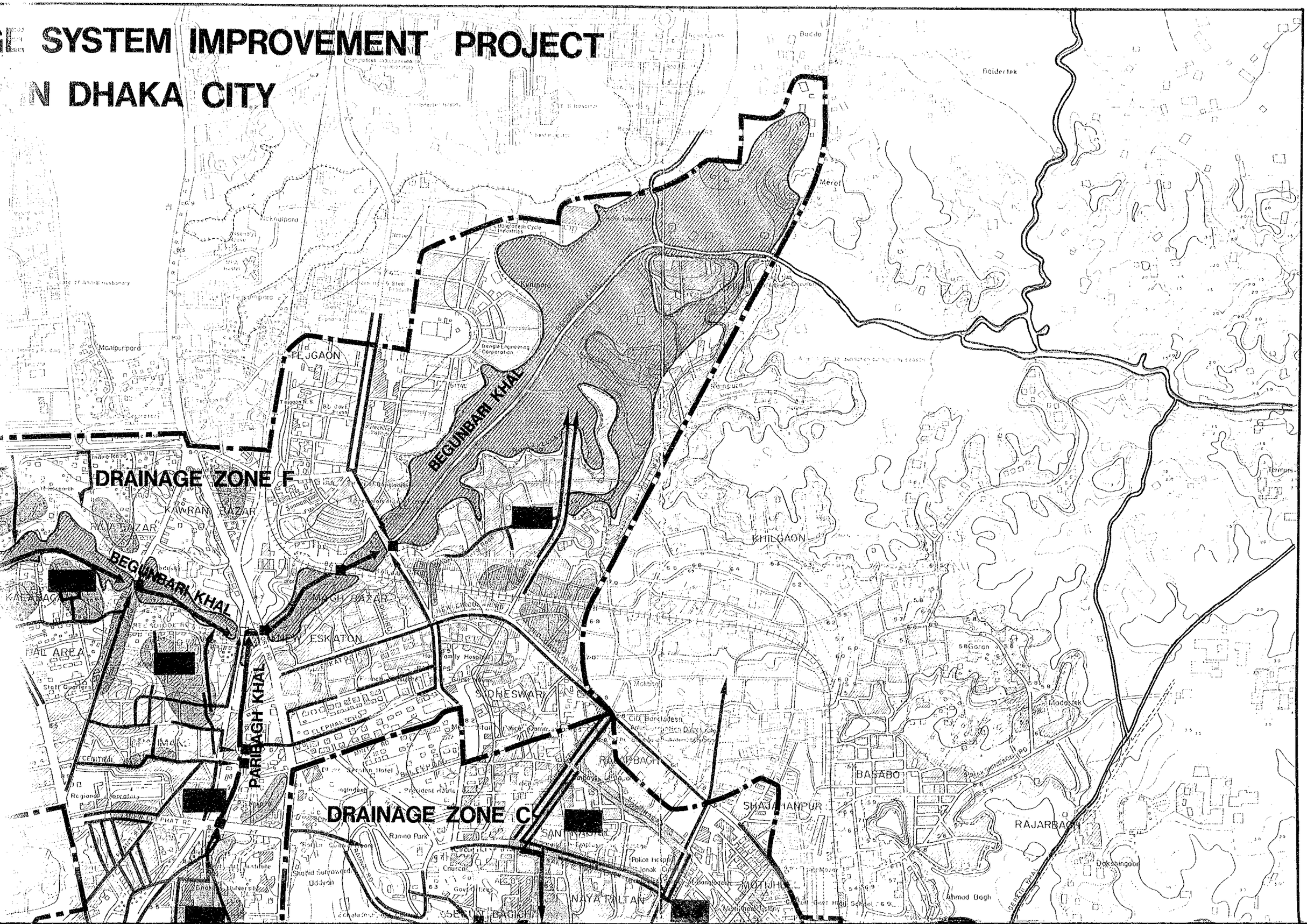
Note : (Ø) shows R.C.Box Culvert Type.
(ø) shows Brick Drainage Pipe.



STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY



GE SYSTEM IMPROVEMENT PROJECT
N DHAKA CITY



IV. Khal Improvement	L=13,100m in Total	-
K-1 : Dholai	L1 = 3,000 m	Box Culvert 1 place
K-2 : Gandaria	L2 = 1,200 m	-
K-3 : Gerani	L3 = 2,100 m	-
K-4 : Segunbagicha	L4 = 3,000 m	Box Culvert / Bridge 13 places
K-5 : Begunbari	L5 = 2,800 m	Box Culvert 5 places
K-6 : Paribagh	L6 = 1,000 m	Box Culvert 3 places
V. Drainage Pipe	L = 12,500m in Total	
D-1 : Narinda	L1 = 2,800 m	Ø- Ave. 3.0mx3.0m , ø=2.8m-1.9m
D-2 : Narinda (Diversion)	L2 = 1,480 m	Ø- 2.9mx2.2m , -
D-3 : Old Railway Road	L3 = 2,500 m	Ø- 3.0mx2.6m , ø=3.0m-1.9m
D-4 : Circular Road	L4 = 540 m	- , ø=1.5m
D-5 : DIT Avenue	L5 = 720 m	- , ø=2.7m-1.9m
D-6 : Santinagar	L6 = 1,050 m	- , ø=2.6m-2.1m
D-7 : Nayatola	L7 = 1,100 m	- , ø=2.8m-2.4m
D-8 : Dhanmondi	L8 = 450 m	- , ø=1.8m
D-9 : Dhaka University	L9 = 1,860 m	- , ø=3.7m-2.1m
VI. Regulating Pond	A = 1.85 km² in Total	
R-1 : Jatrabari Pond	A = 1.38 km²	Storage Capacity : 1.78x10⁶ m³
R-2 : Gandaria Pond	A = 0.47 km²	Storage Capacity : 0.40x10⁶ m³

Note : (Ø) shows R.C.Box Culvert Type.
(ø) shows Brick Drainage Pipe.

LEGEND

FLOOD AREA :

: EXTERNAL FLOOD AREA

: INTERNAL FLOOD AREA

PROPOSED FACILITIES :

: DIKE

: CONTROL GATE

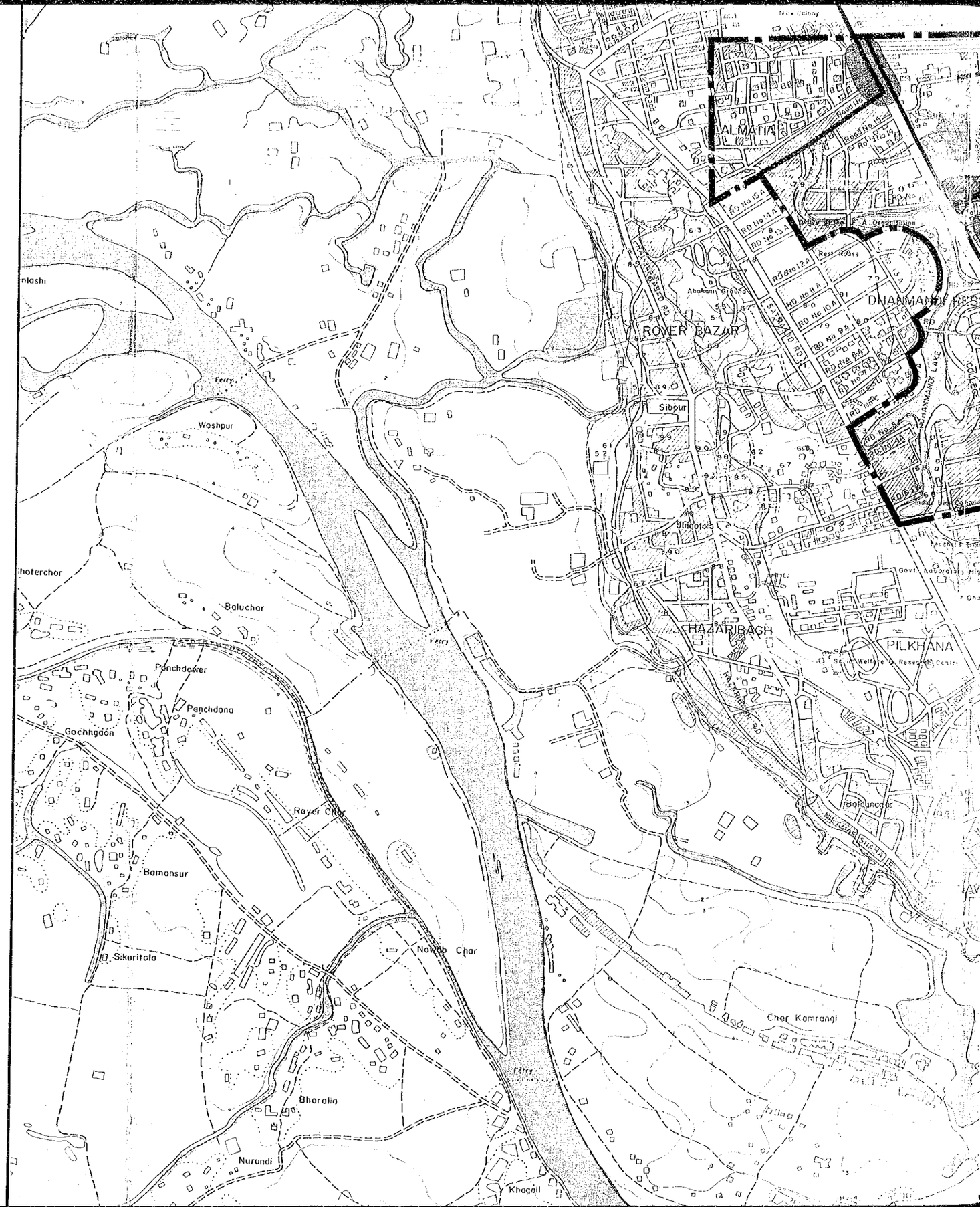
: EXISTING PUMP STATION TO BE REHABILITATED

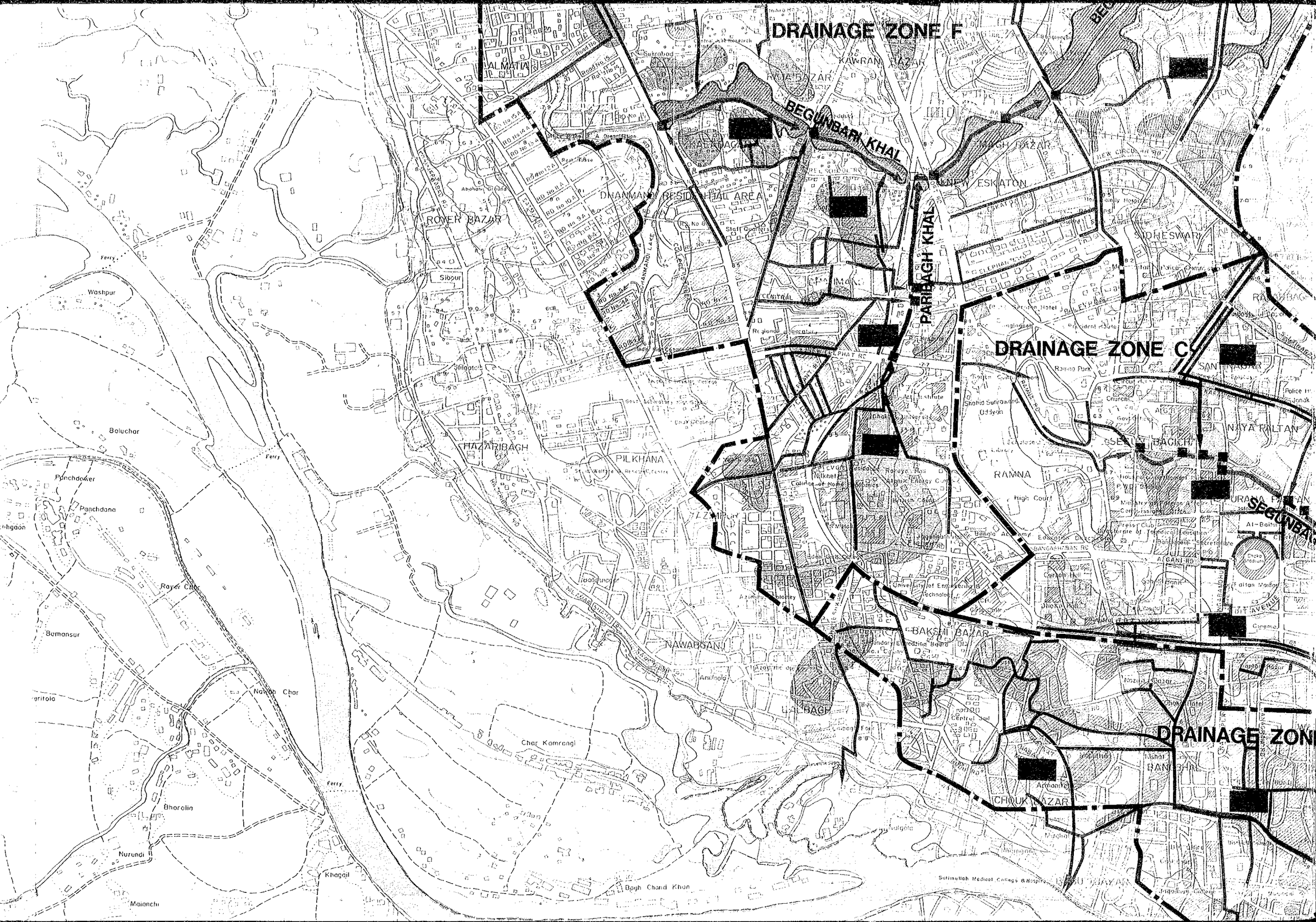
: NEW PUMP STATION

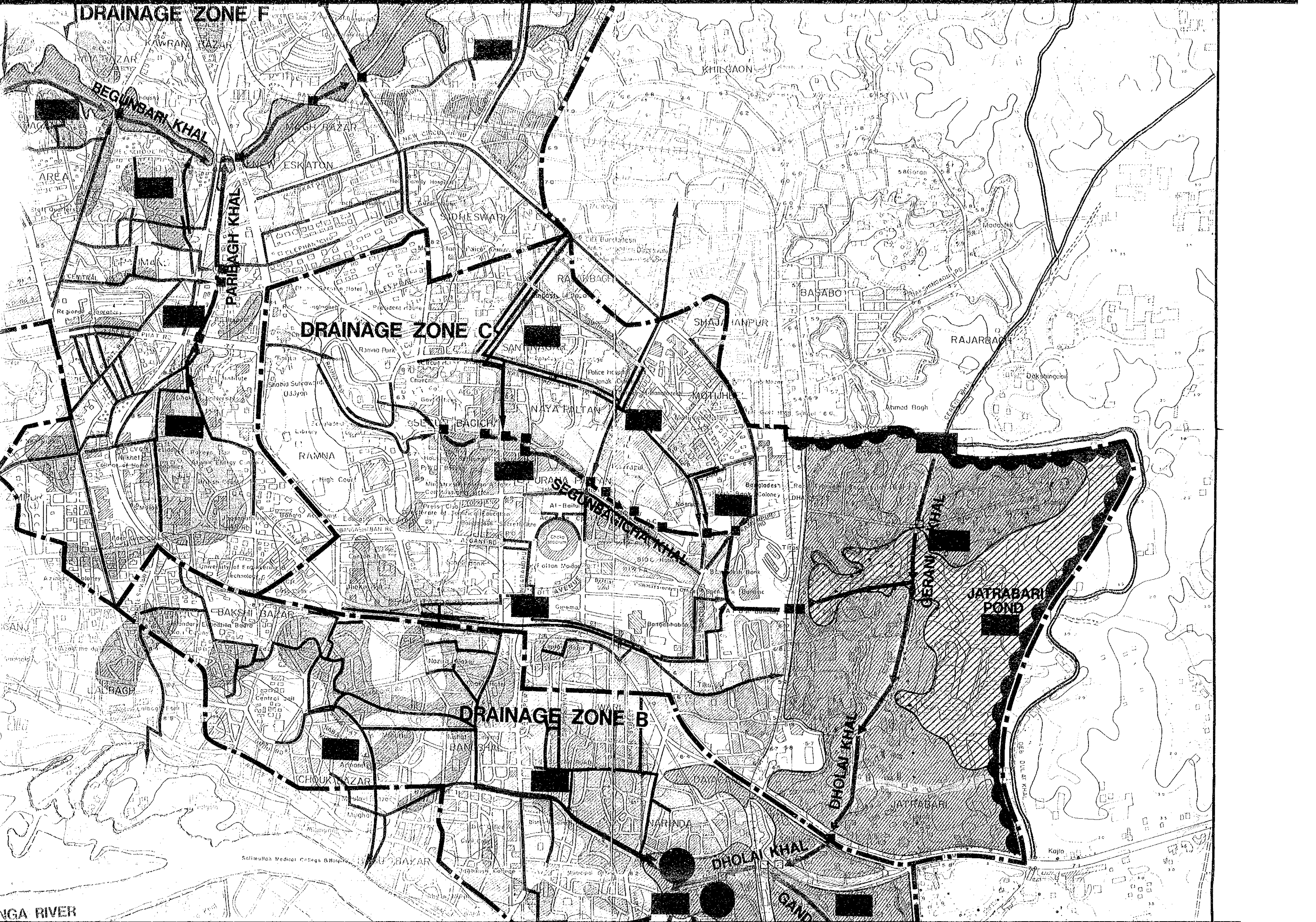
: REGULATING POND

: KHAL IMPROVEMENT
BOX CULVERT

: DRAINAGE PIPE




DRAINAGE ZONE F
DRAINAGE ZONE C
DRAINAGE ZON
BEGUNBARI KHAL
PARIBAGH KHAL
DHANMANDI RESIDENTIAL AREA
ROMER BAZAR
KAWRAN BAZAR
MAGH BAZAR
NEW ESKATON
SIDHESWARI
RAMNA
NAYA PALTAN
BAKSHI BAZAR
CHOUK BAZAR
NAWABGANJ
PILKHANA
CHAZARIBAGH
Char Kamrangi
Bagh Chand Khan
Washpur
Baluchar
Panchdona
Bamansur
Nawab Char
Bhoralia
Nurundi
Khagail
Maianchi
Ferry



DRAINAGE ZONE F
KAWRAN BAZAR
BEGUNBARI KHAL
MAGH BAZAR
NEW ESKATON
PARIBAGH KHAL
KHILGAON
SIDDESWARI
BASABO
SHAJAHANPUR
RAJARBAGH
DRAINAGE ZONE C
MOTIJHEEL
NAYA PALTAN
RAMNA
SEGUNBAGICHA KHAL
GERANI KHAL
JATRABARI POND
BAKSHI BAZAR
LALBAGH
DRAINAGE ZONE B
BANGSHAL
CHOUK BAZAR
NARINDA
DHOLAI KHAL
JATRABARI
NGA RIVER

LEGEND

FLOOD AREA :

: EXTERNAL FLOOD AREA

: INTERNAL FLOOD AREA

PROPOSED FACILITIES :

: DIKE

: CONTROL GATE

: EXISTING PUMP STATION TO BE REHABILITATED

: NEW PUMP STATION

: REGULATING POND

: KHAL IMPROVEMENT

BOX CULVERT

: DRAINAGE PIPE

EXISTING FACILITIES :

: RIVER & KHAL

: DRAINAGE PIPE

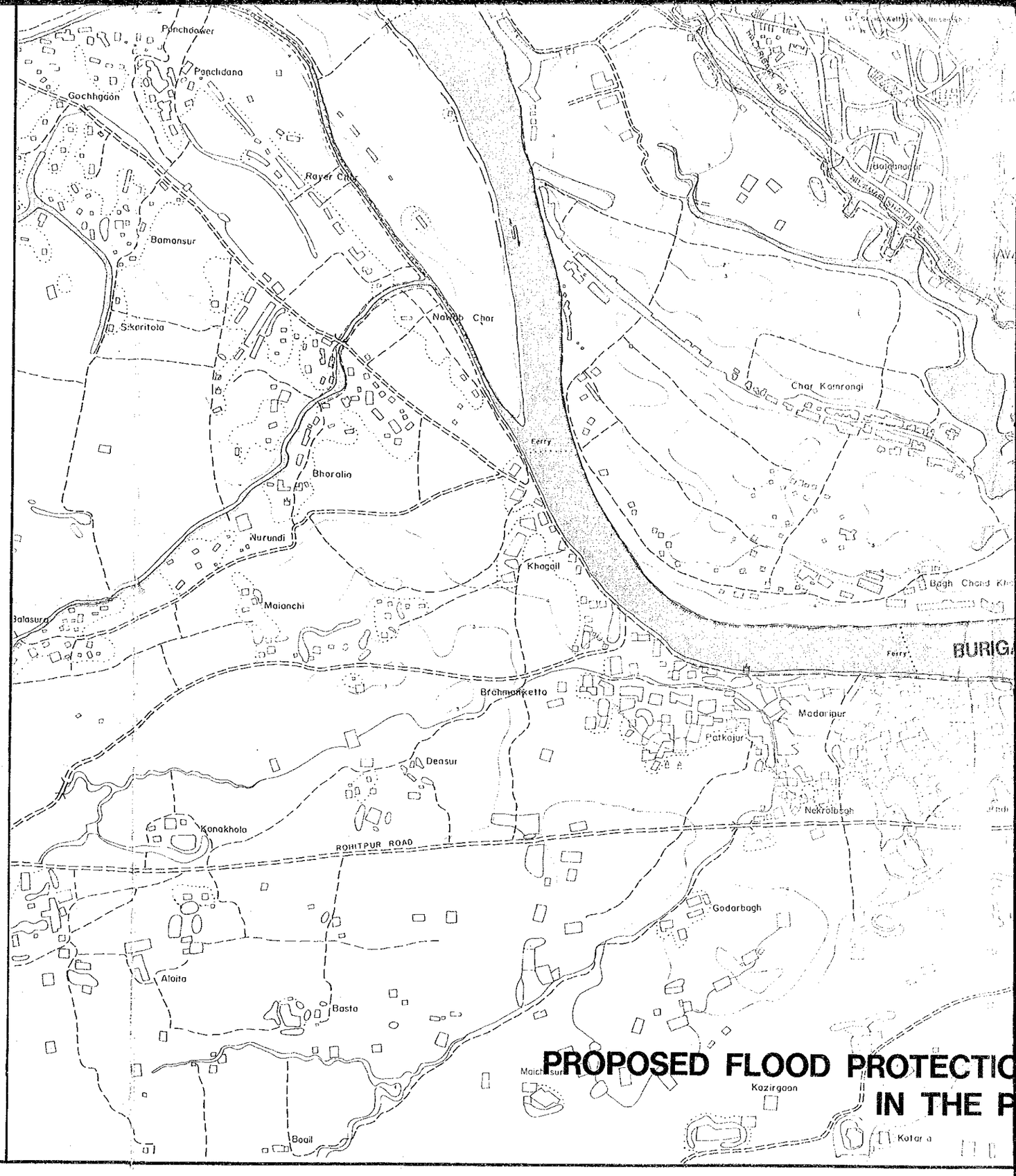
: DRAINAGE ZONE BOUNDARY

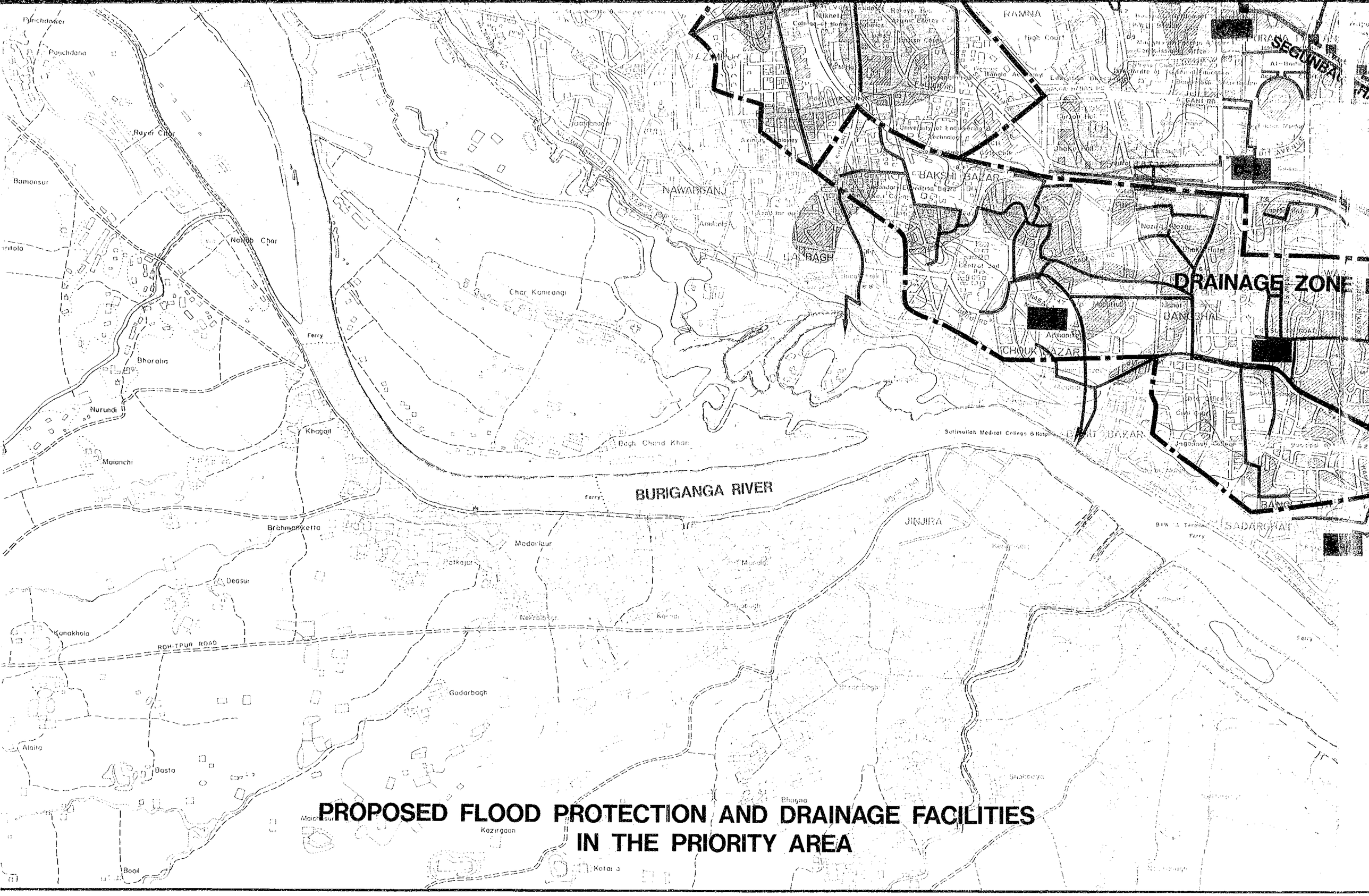
: CONTOUR LINE (ABOVE G.T.S. DATUM)

: RRIORITY AREA

SCALE 1 : 17,500

0.5 0 0.5 1.0 Km





PROPOSED FLOOD PROTECTION AND DRAINAGE FACILITIES IN THE PRIORITY AREA

DRAINAGE ZONE B

SEGUNBAGICHA KHAL

GERANI KHAL

JATRABARI POND

DHOLAI KHAL

GANDARIA KHAL

GANDARIA POND

NGA RIVER

AND DRAINAGE FACILITIES
RIORITY AREA