

Figure 4.10 FLOW PROFILE
Pampanga - Earnshaw Drainage Main
Solis - Tecson Drainage Main

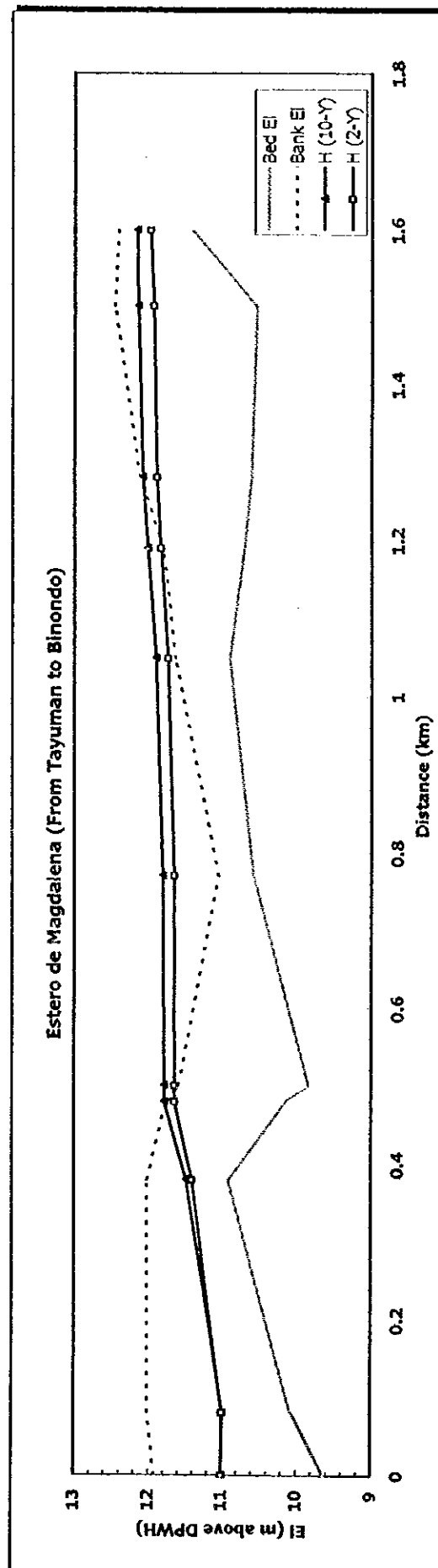
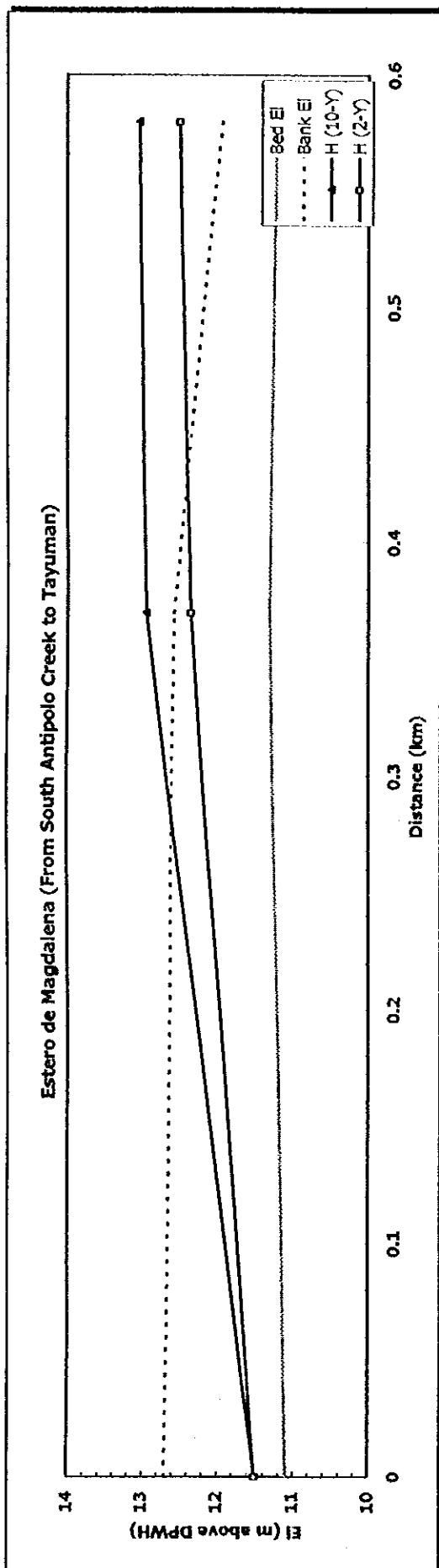


Figure 4.11 FLOW PROFILE
 Estero de Magdalena (From South Antipolo Creek to Tayuman)
 Estero de Magdalena (From Tayuman to Binondo)

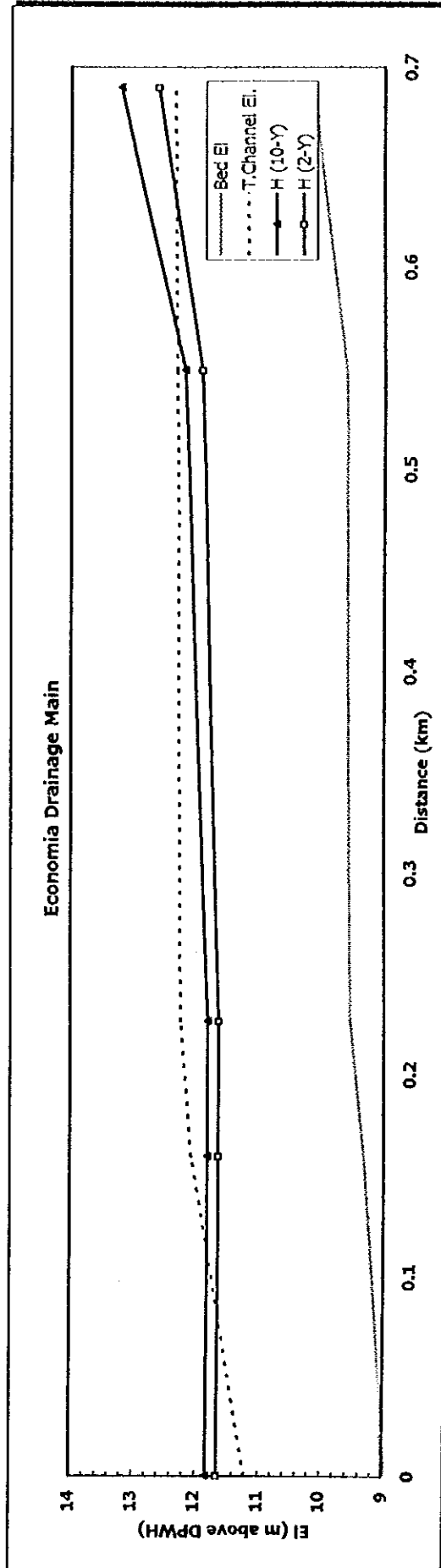
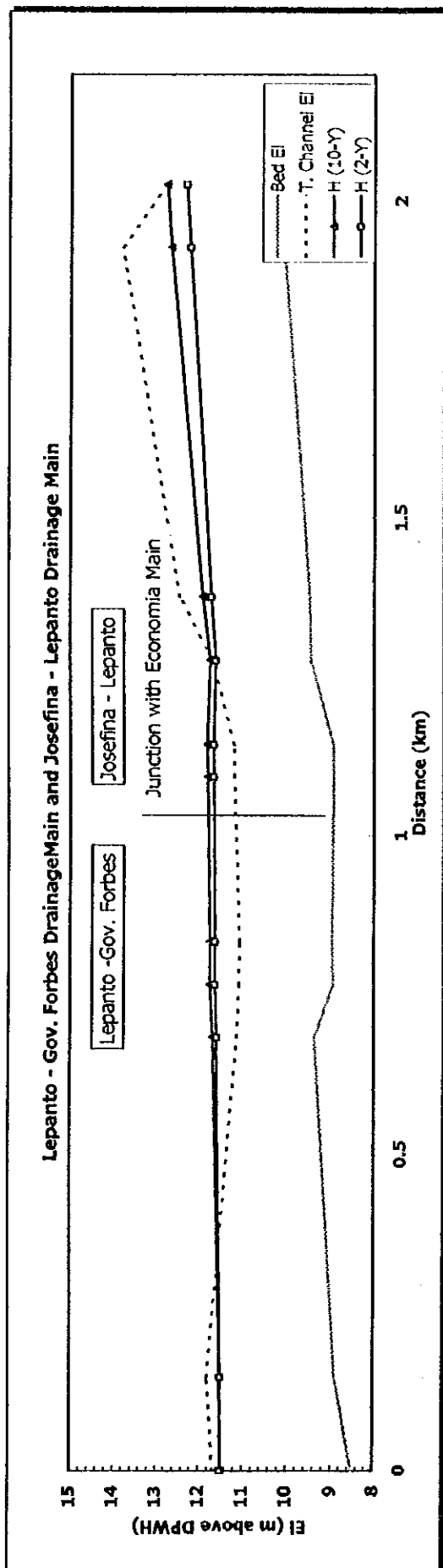


Figure 4.12 FLOW PROFILE
Lepanto - Gov. Forbes Drainage Main and Josefina - Lepanto Drainage Main
Economia Drainage Main

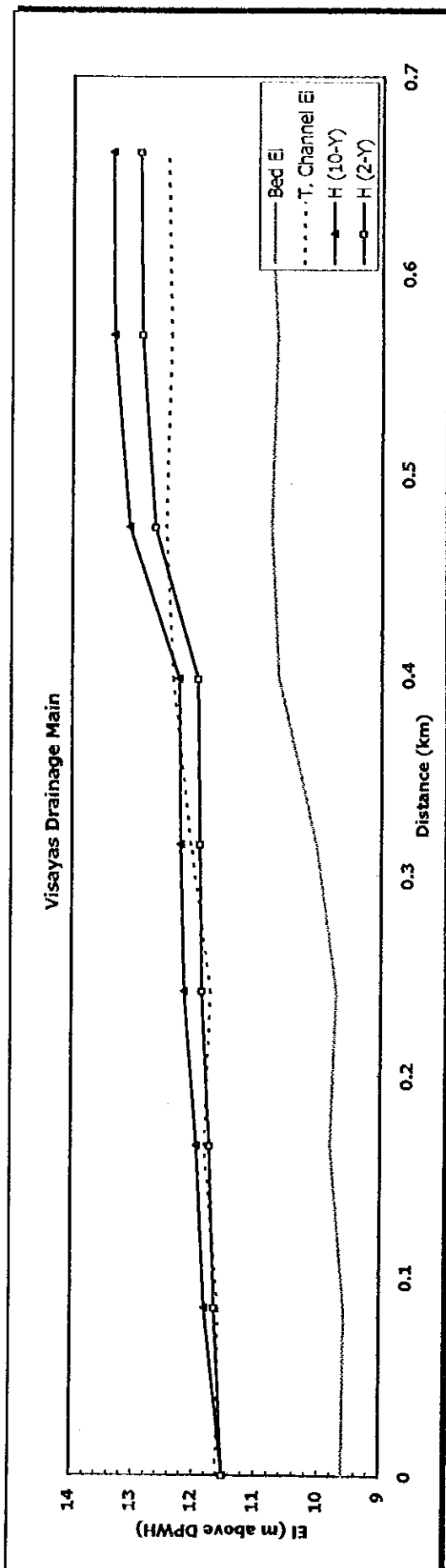
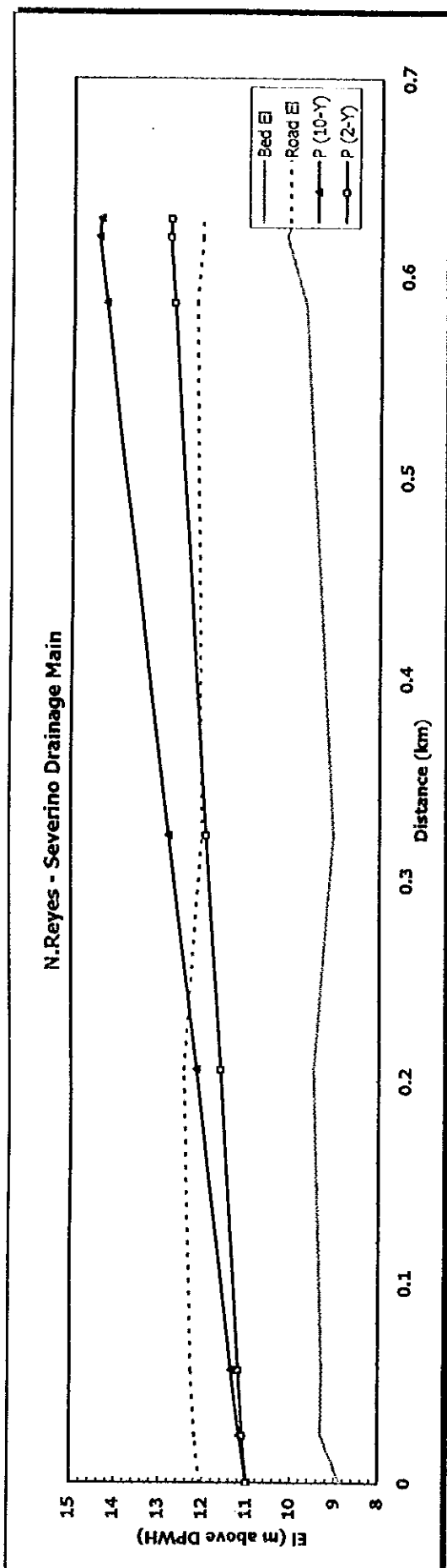


Figure 4.13 FLOW PROFILE
N.Reyes - Severino Drainage Main
Visayas Drainage Main

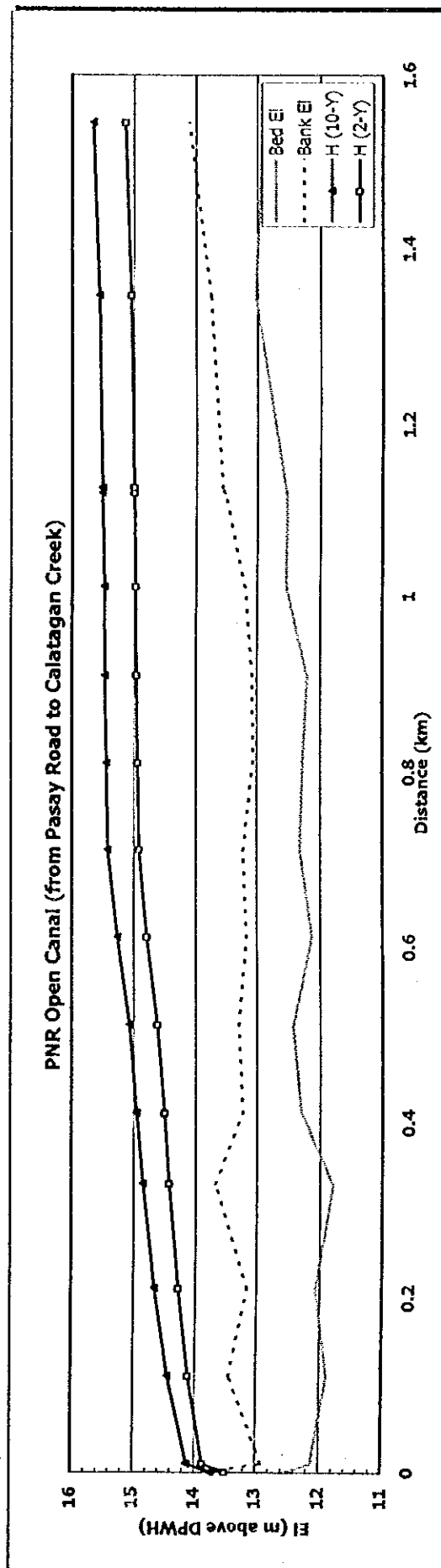
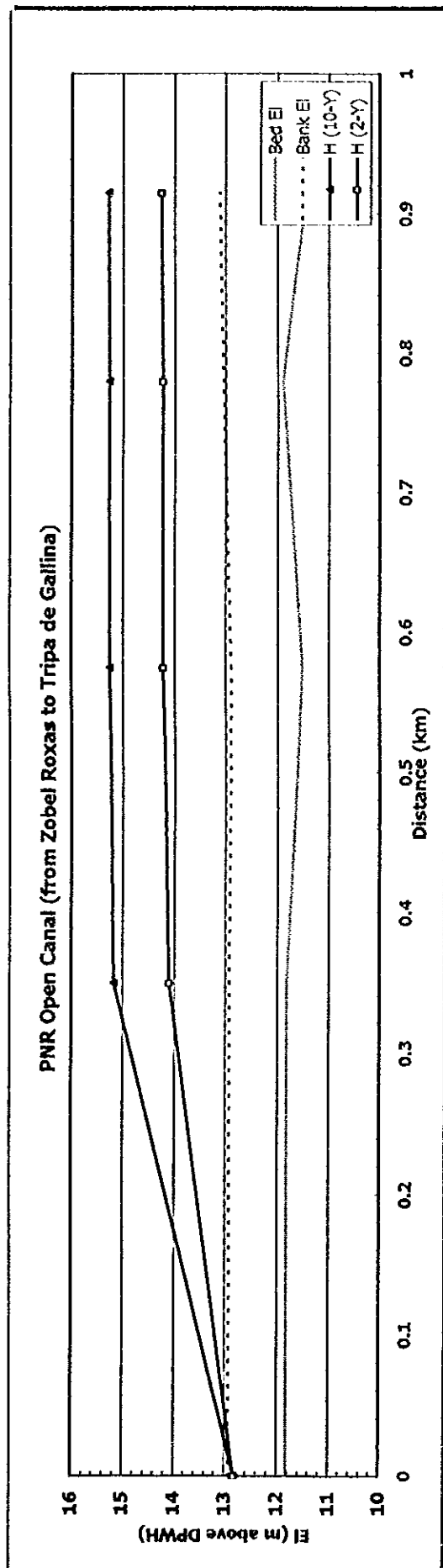


Figure 4.14 FLOW PROFILE
 PNR Open Canal (from Zobel Roxas to Tripa de Gallina)
 PNR Open Canal (from Pasay Road to Calatagan Creek)

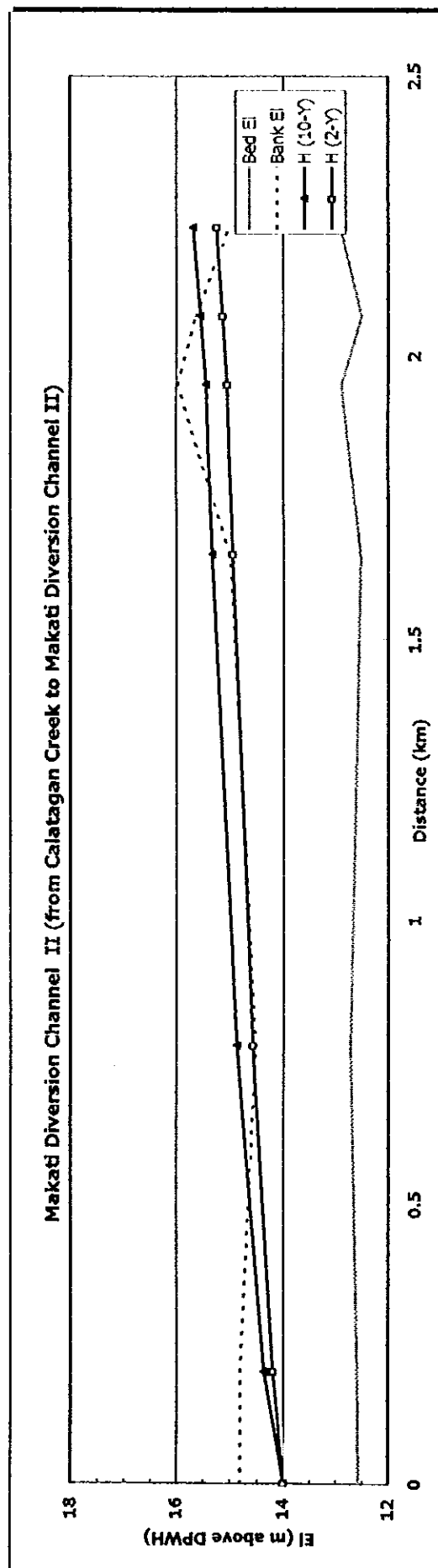
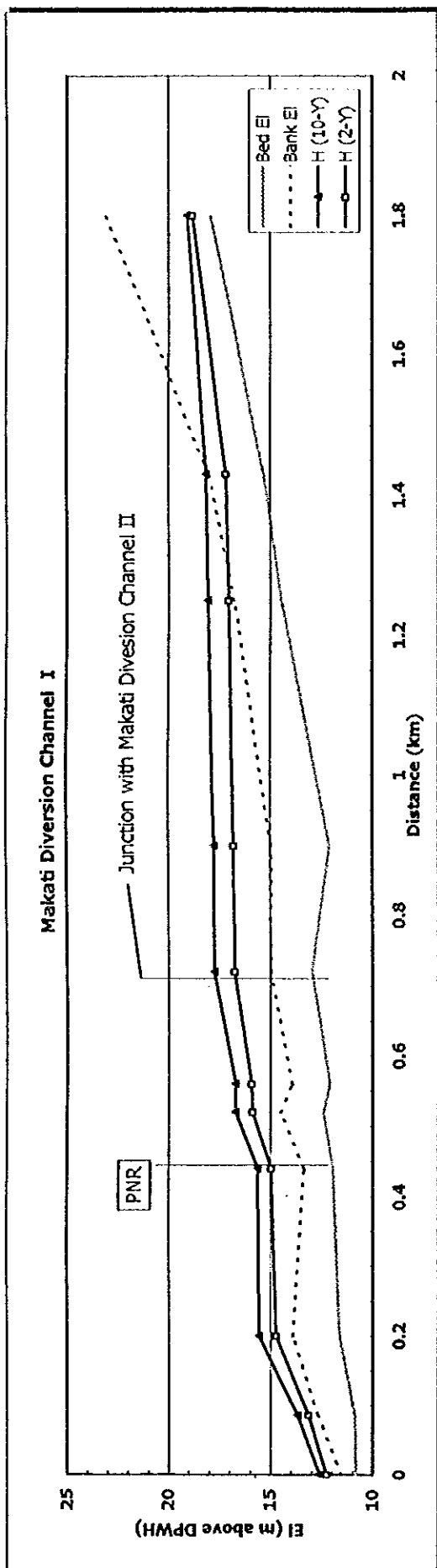


Figure 4.15 FLOW PROFILE
Makati Diversion Channel

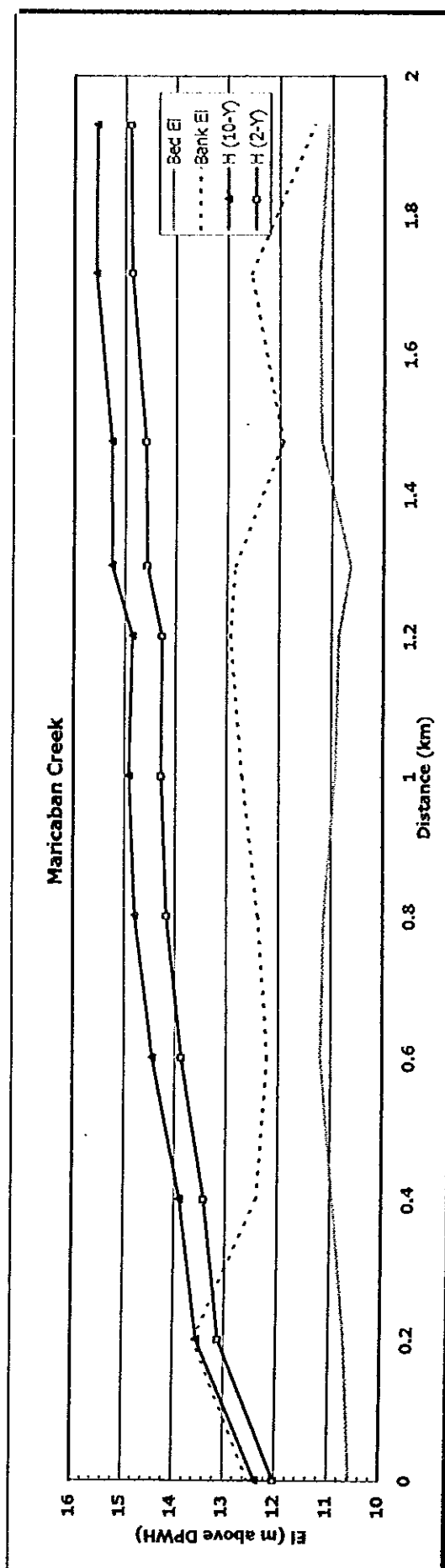
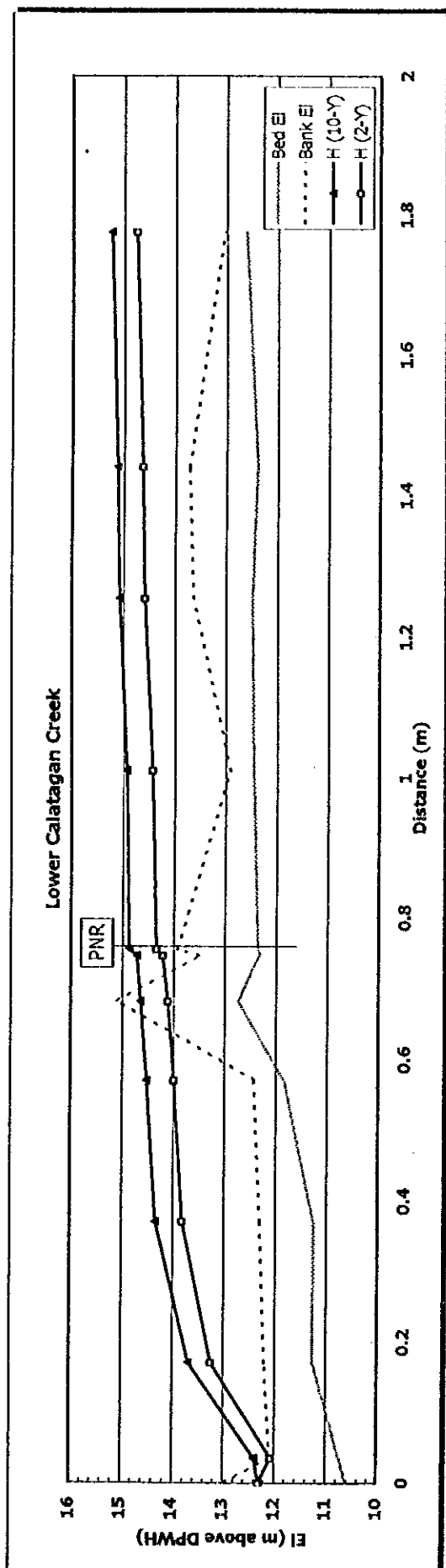


Figure 4.16 FLOW PROFILE
Lower Calatagan Creek
Maricaban Creek

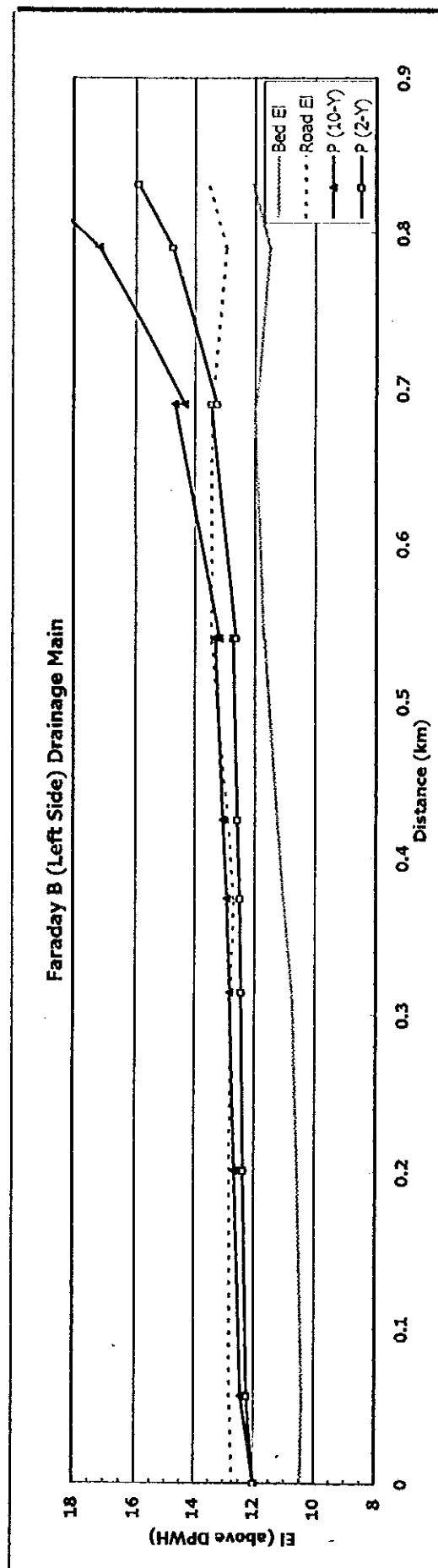
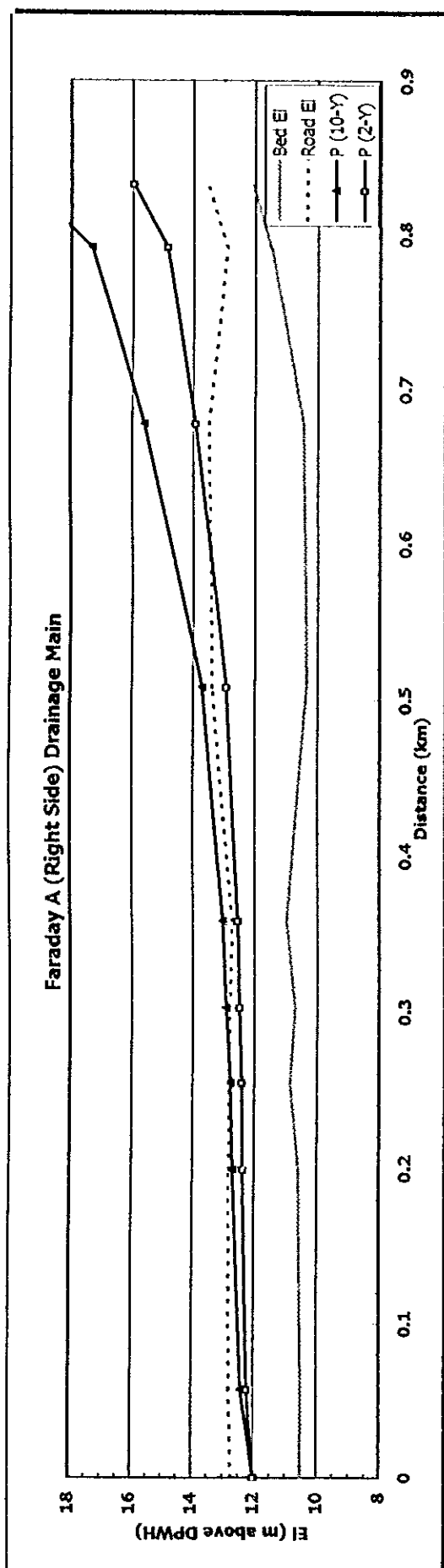


Figure 4.17 FLOW PROFILE
Faraday Drainage Main

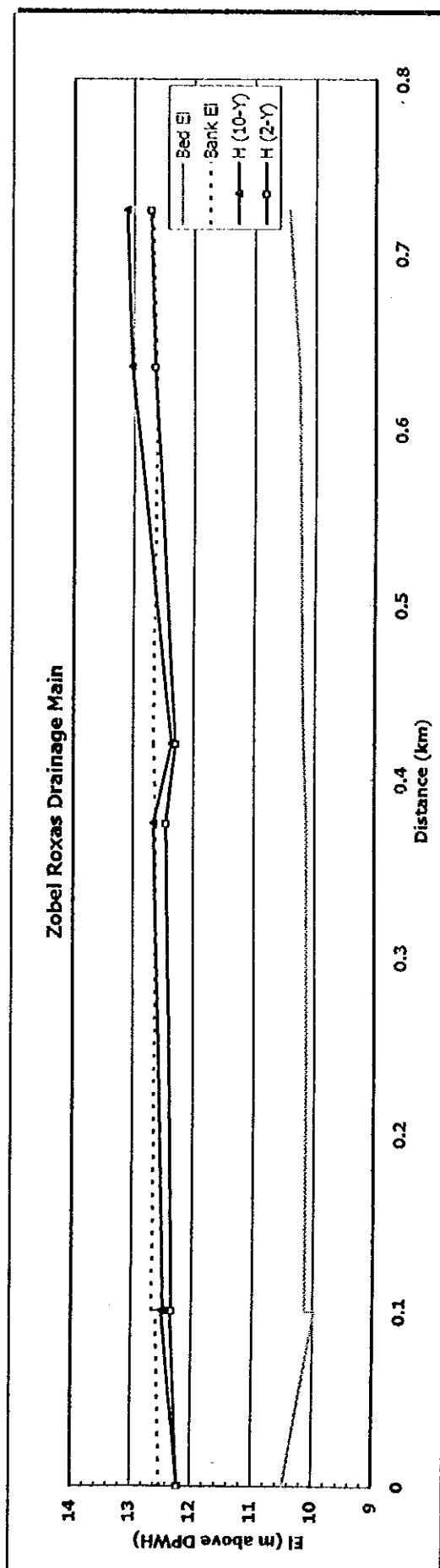
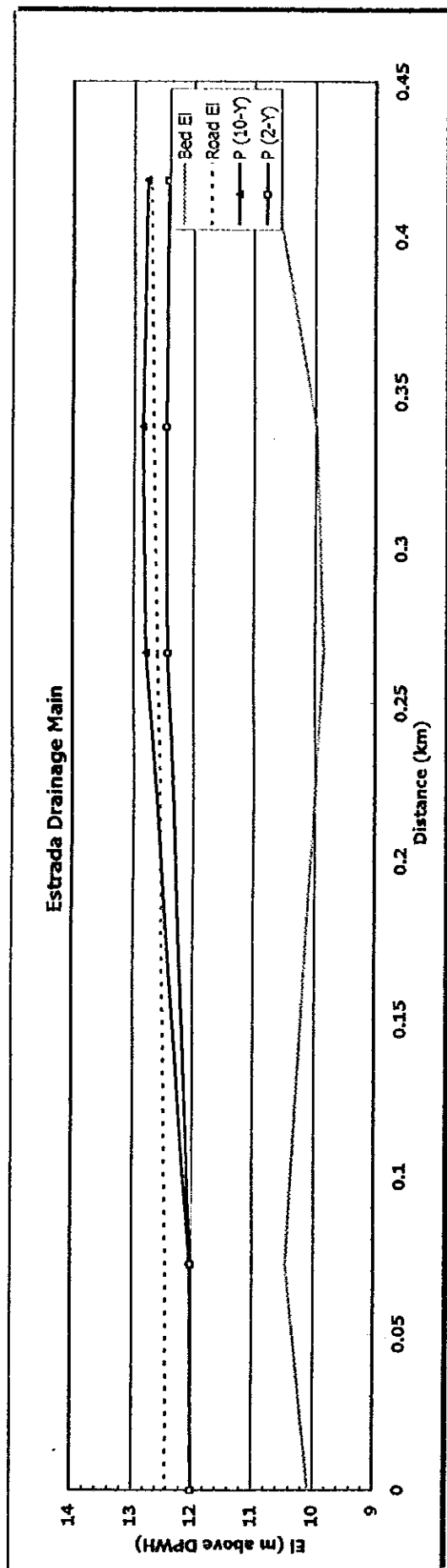


Figure 4.18 FLOW PROFILE
Estrada Drainage Main
Zobel Roxas Drainage Main

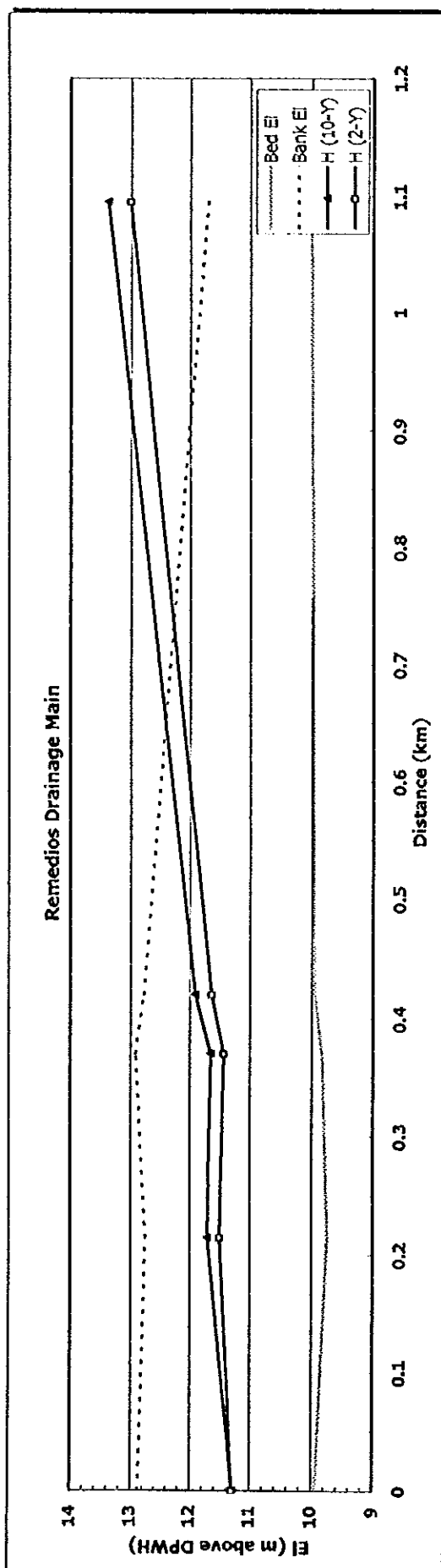
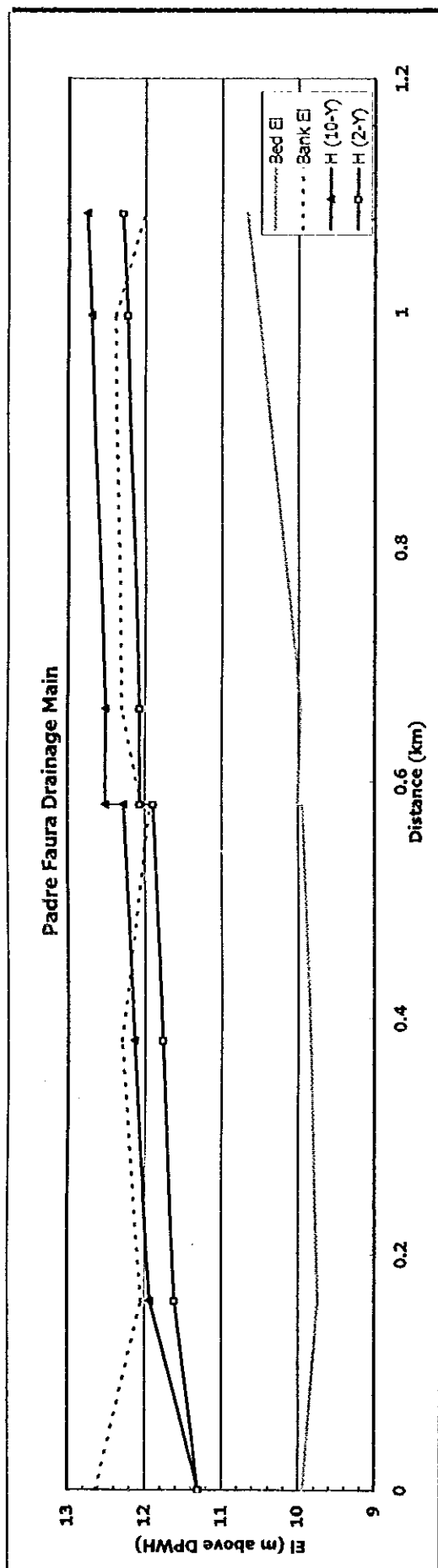


Figure 4.19 FLOW PROFILE
Padre Faura Drainage Main
Remedios Drainage Main

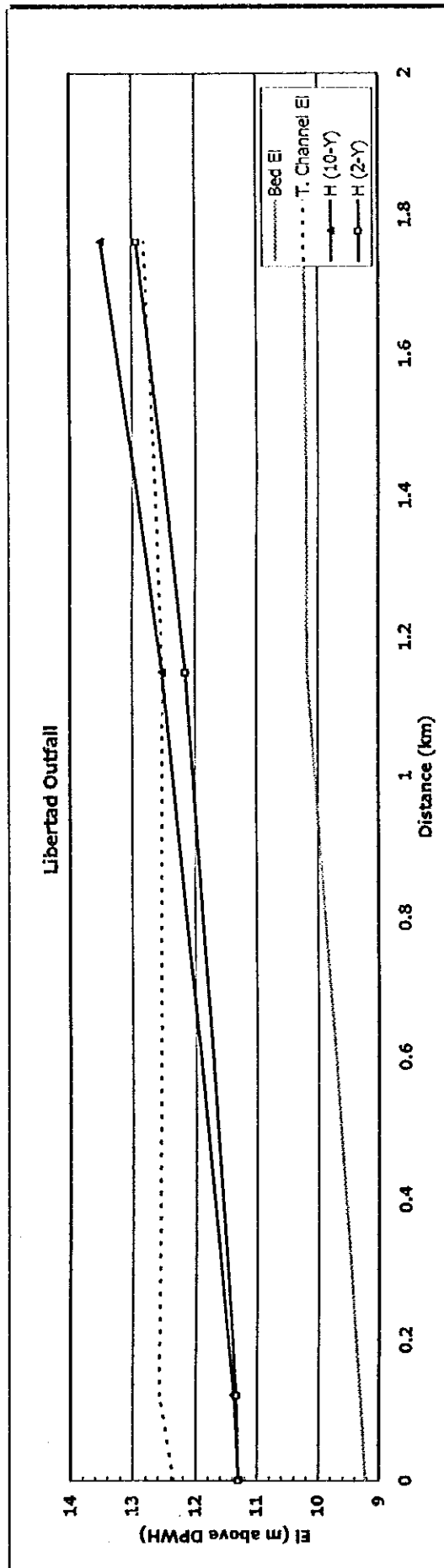
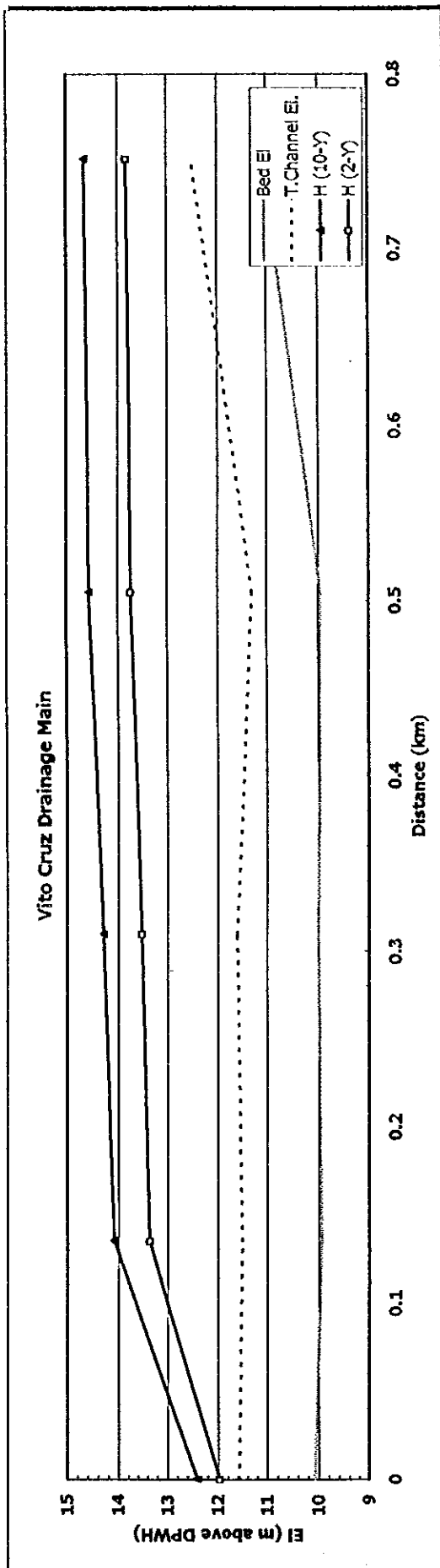


Figure 4.20 FLOW PROFILE
Vito Cruz Drainage Main
Libertad Outfall

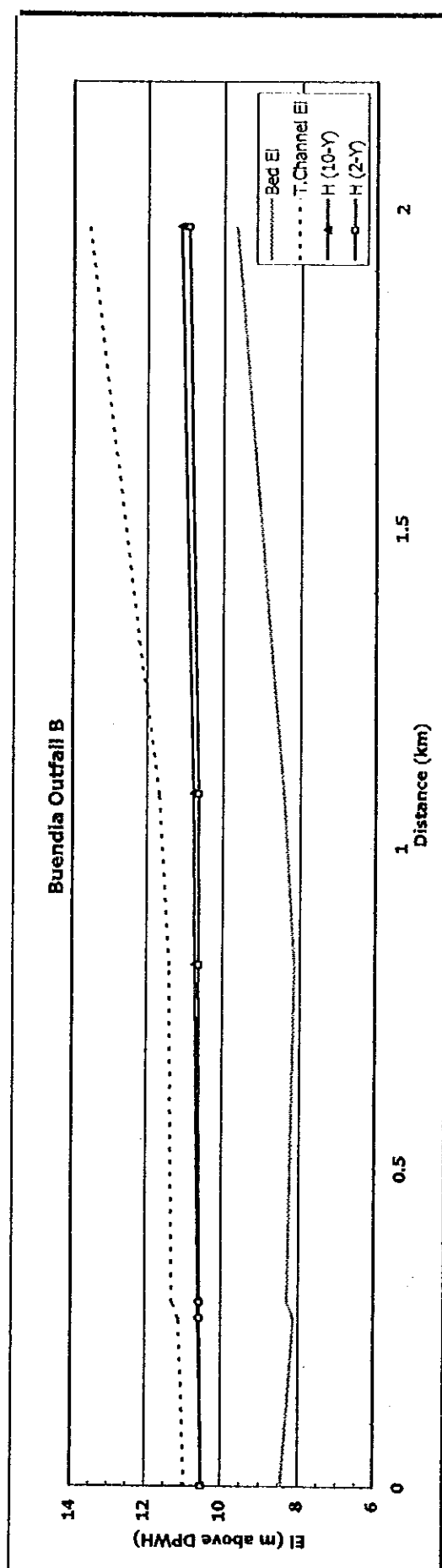
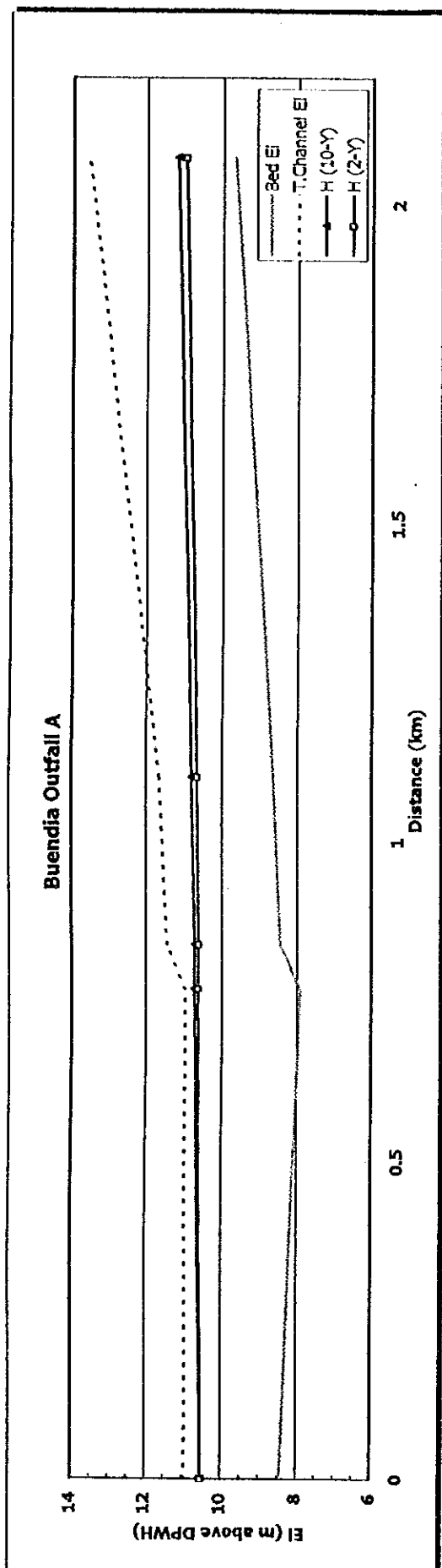


Figure 4.21 FLOW PROFILE
Buendia Outfall

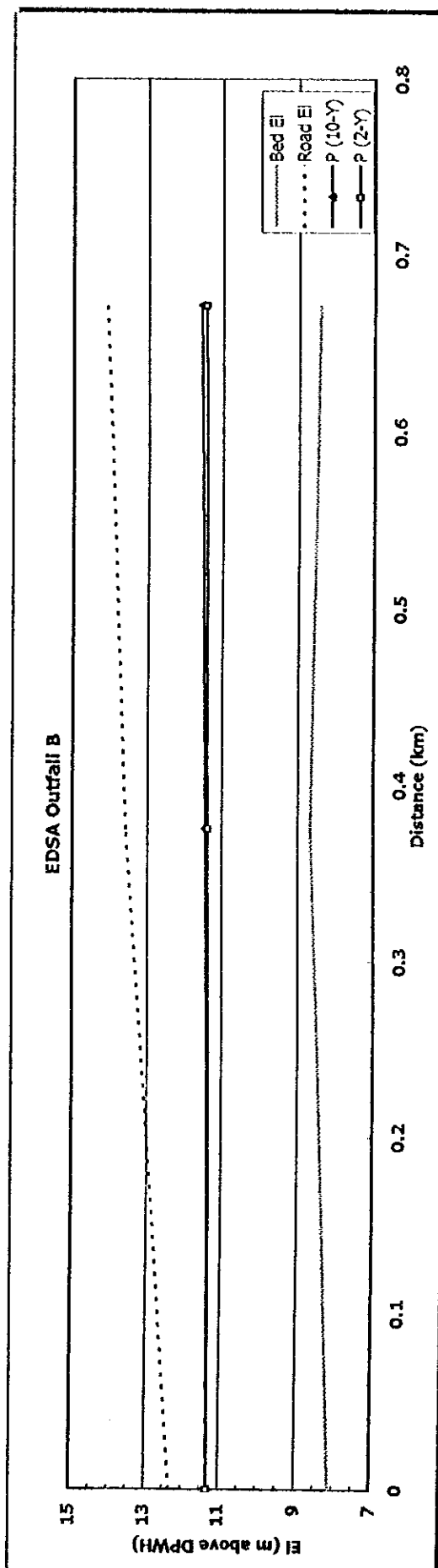
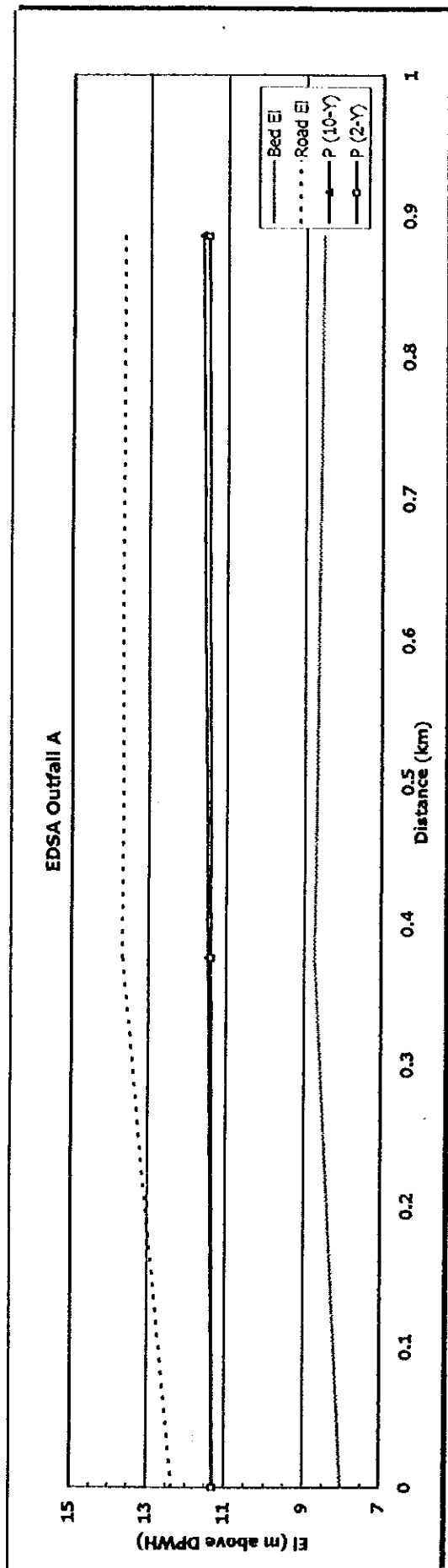


Figure 4.22 FLOW PROFILE
EDSA Outfall

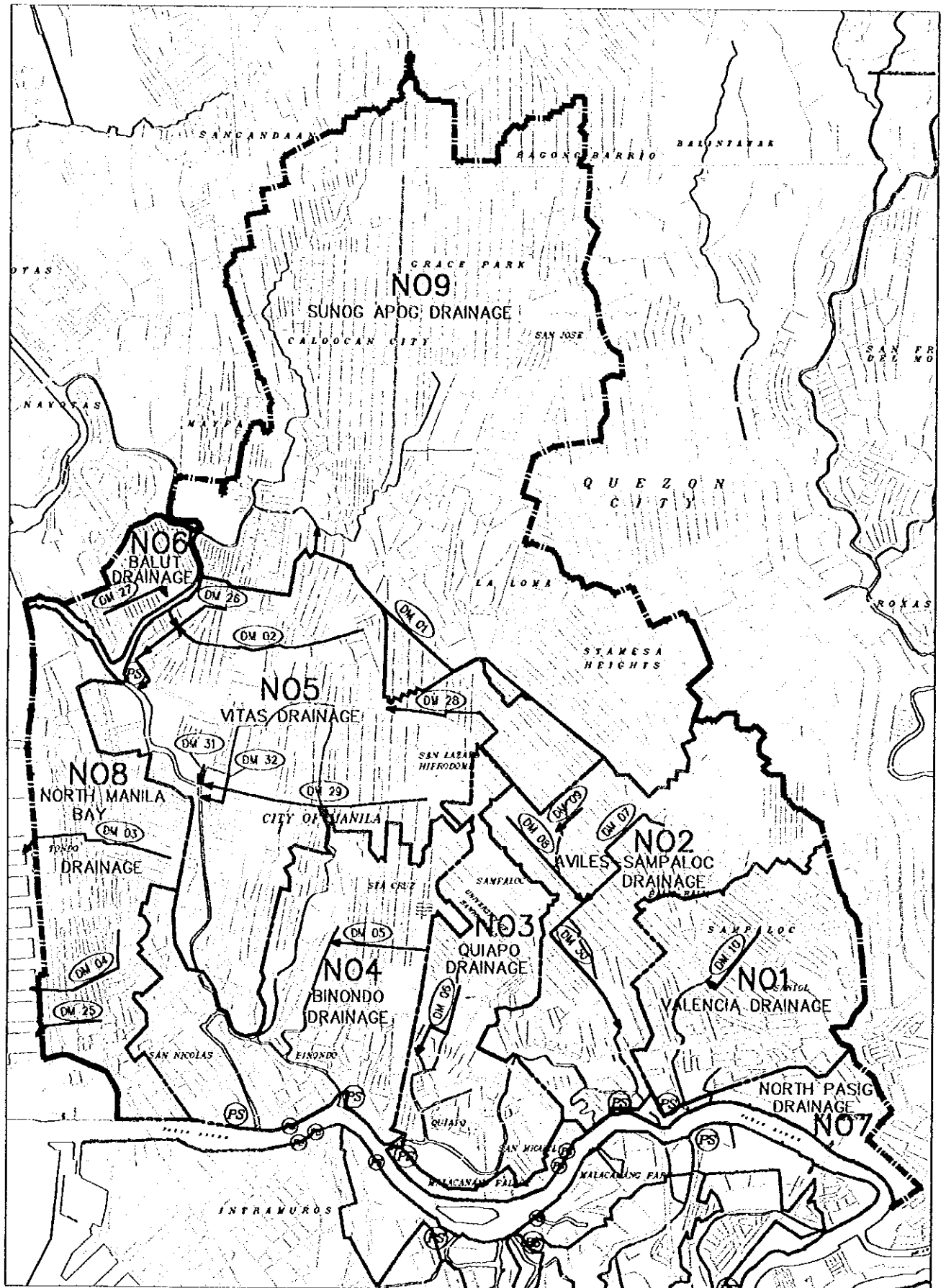


Figure 4.23 DRAINAGE BLOCKS - NORTH MANILA

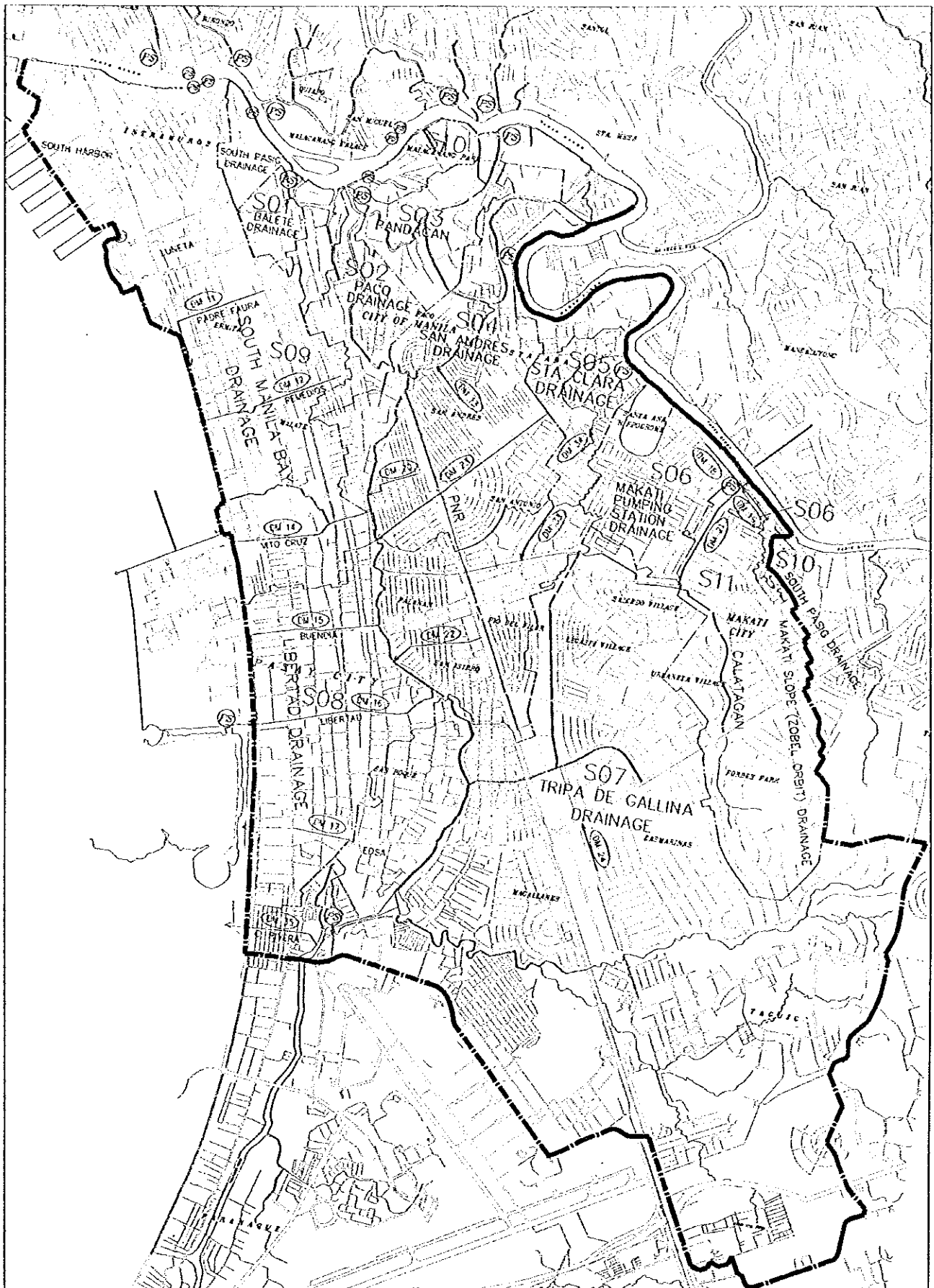
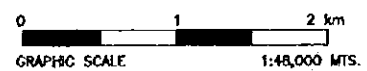


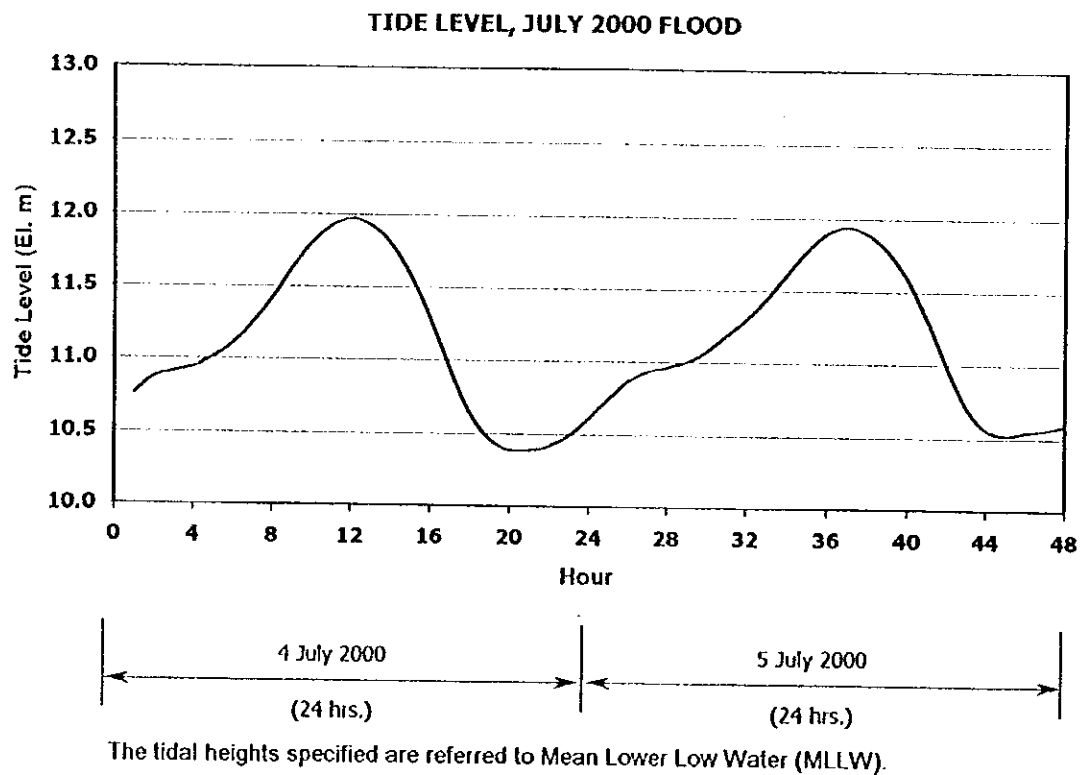
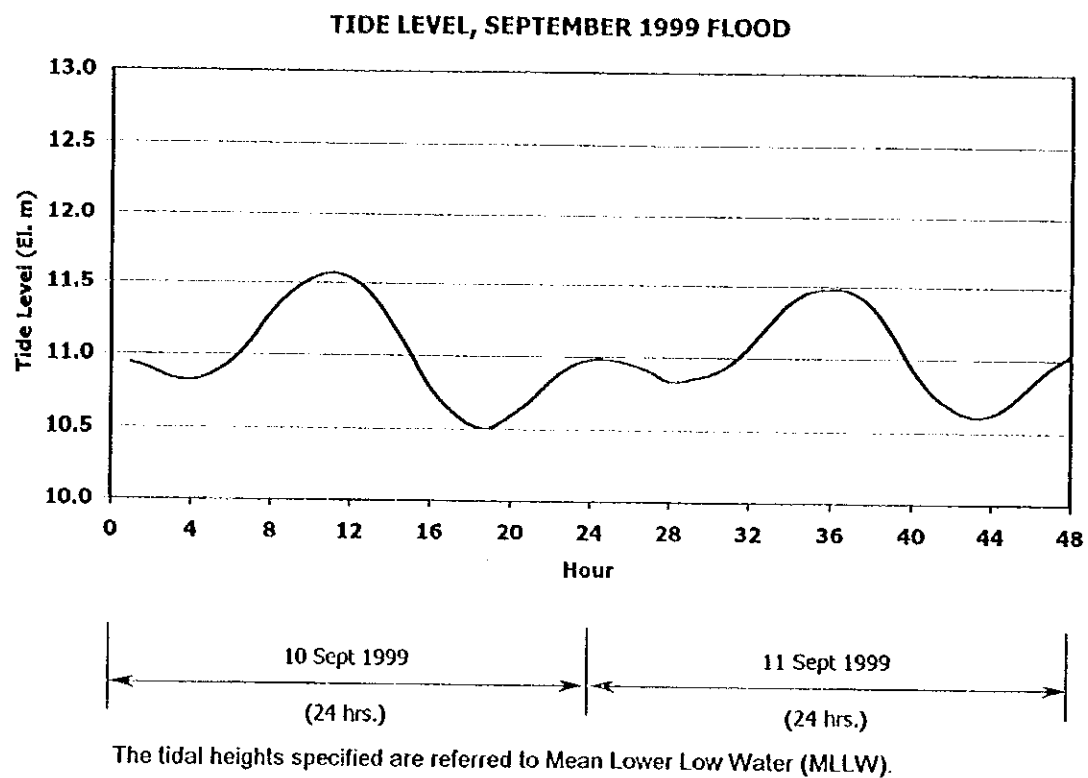
Figure 4.24 DRAINAGE BLOCKS-SOUTH MANILA

0 1 2 km
GRAPHIC SCALE 1:48,000 MTS.



Figure 4.26 TOPOGRAPHY AND DRAINAGE SYSTEM
SOUTH MANILA





**Figure 5.1 Tide Levels during the
September 1999 and July 2000 Floods**

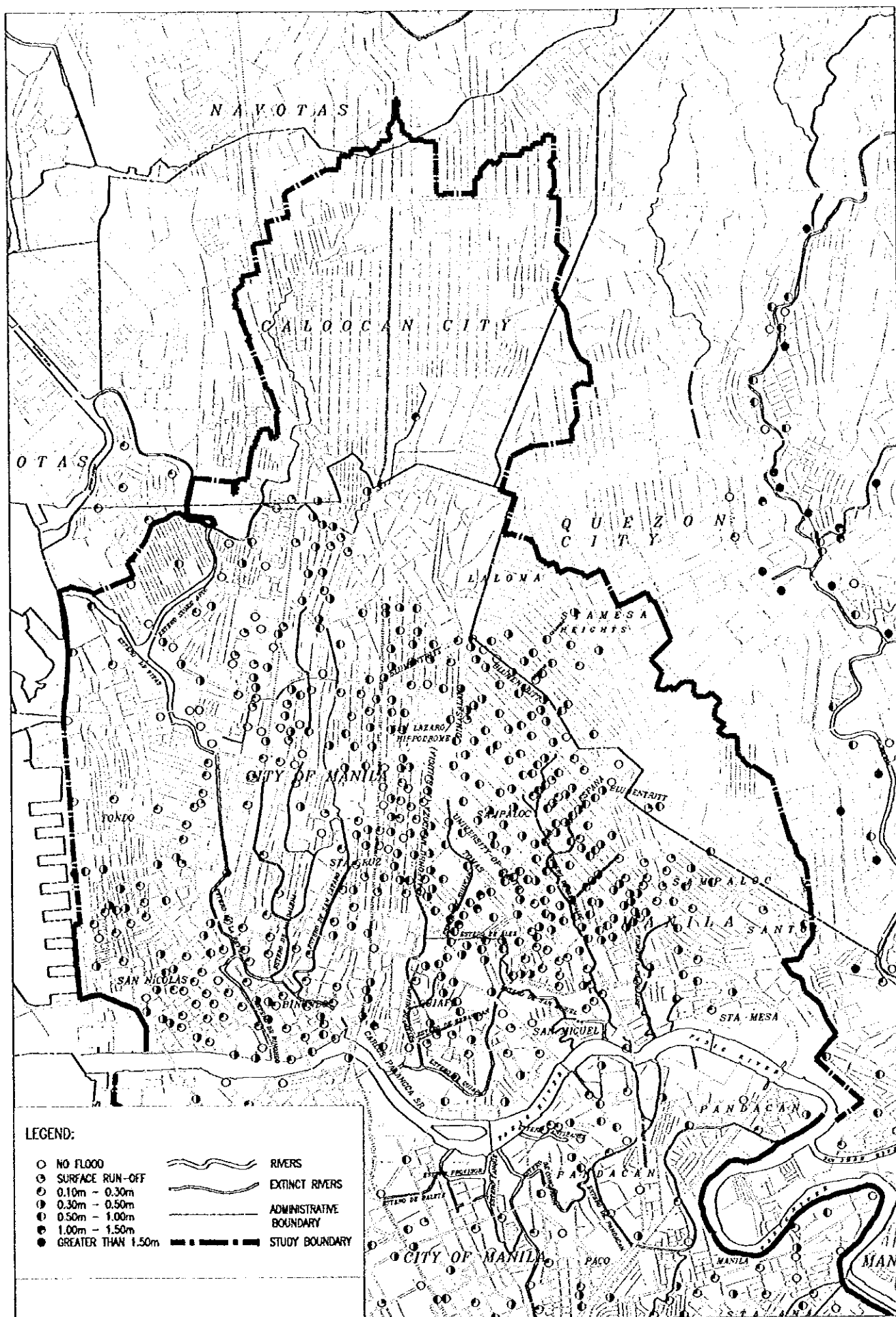


Figure 5.2 INUNDATION DEPTH OF SEPTEMBER 1999 FLOOD
NORTH MANILA

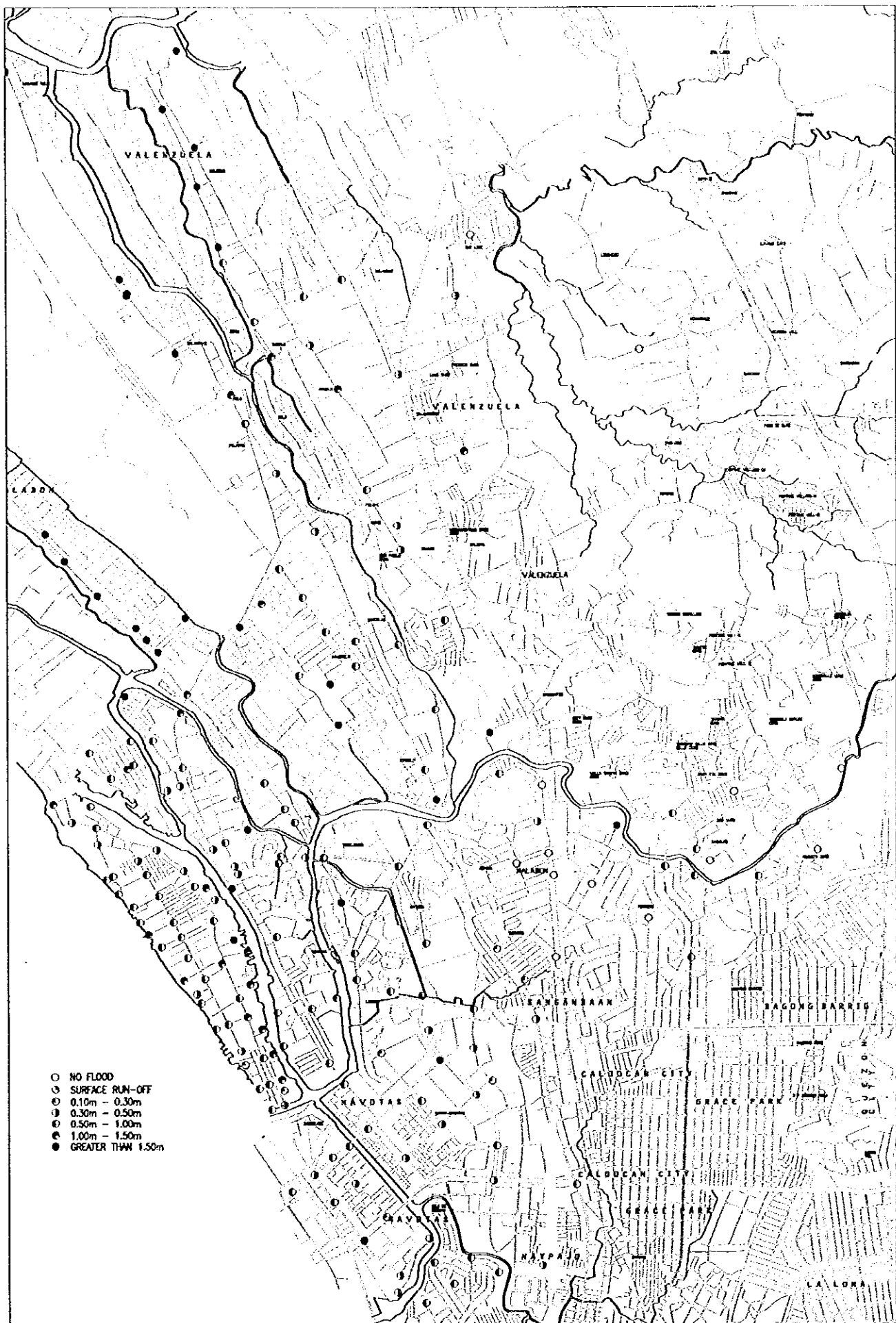


Figure 5.6 INUNDATION DEPTH IN KAMANAVA
OF JULY 2000 FLOOD

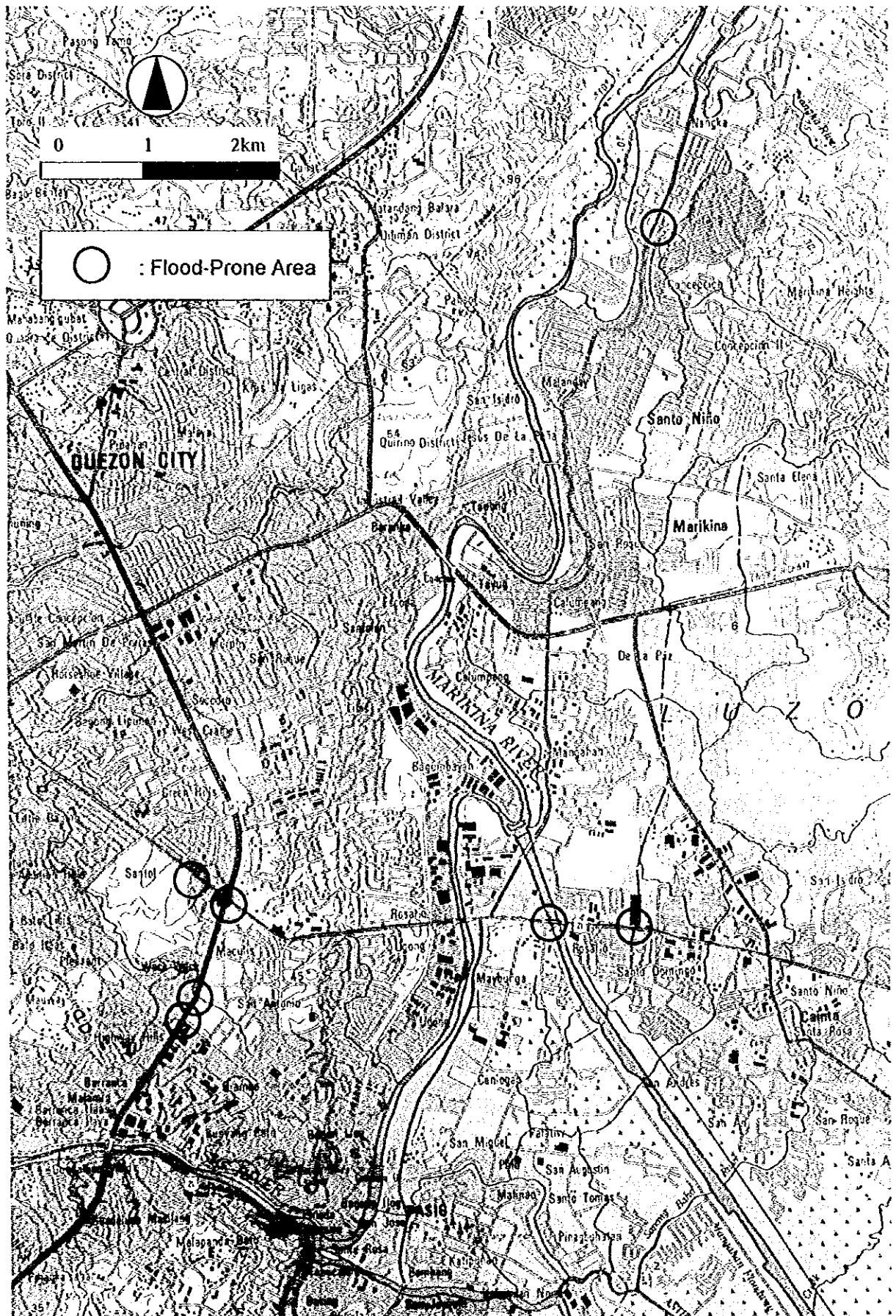


Figure 5.7 FLOOD-PRONE AREAS IN PASIG-MARIKINA

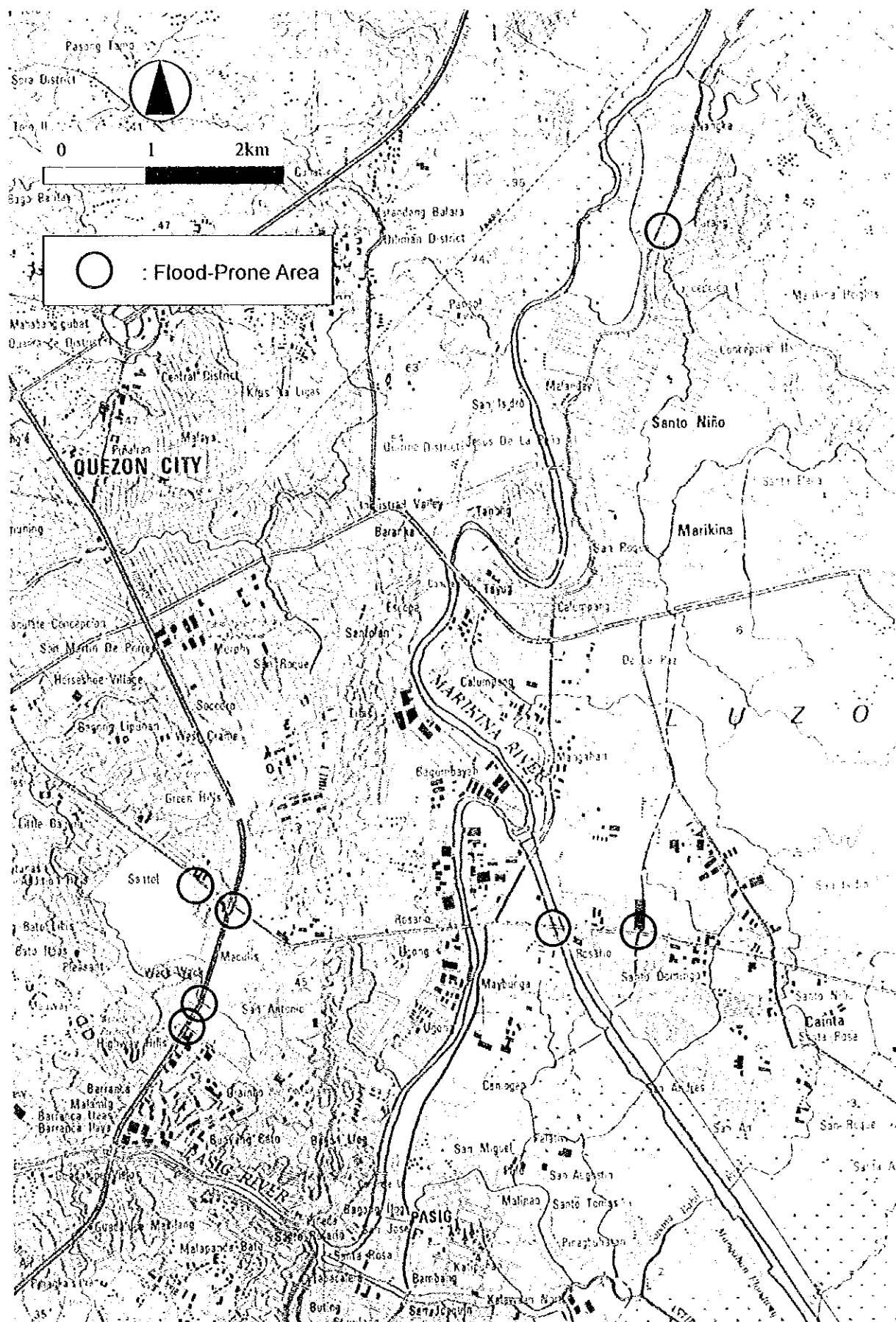
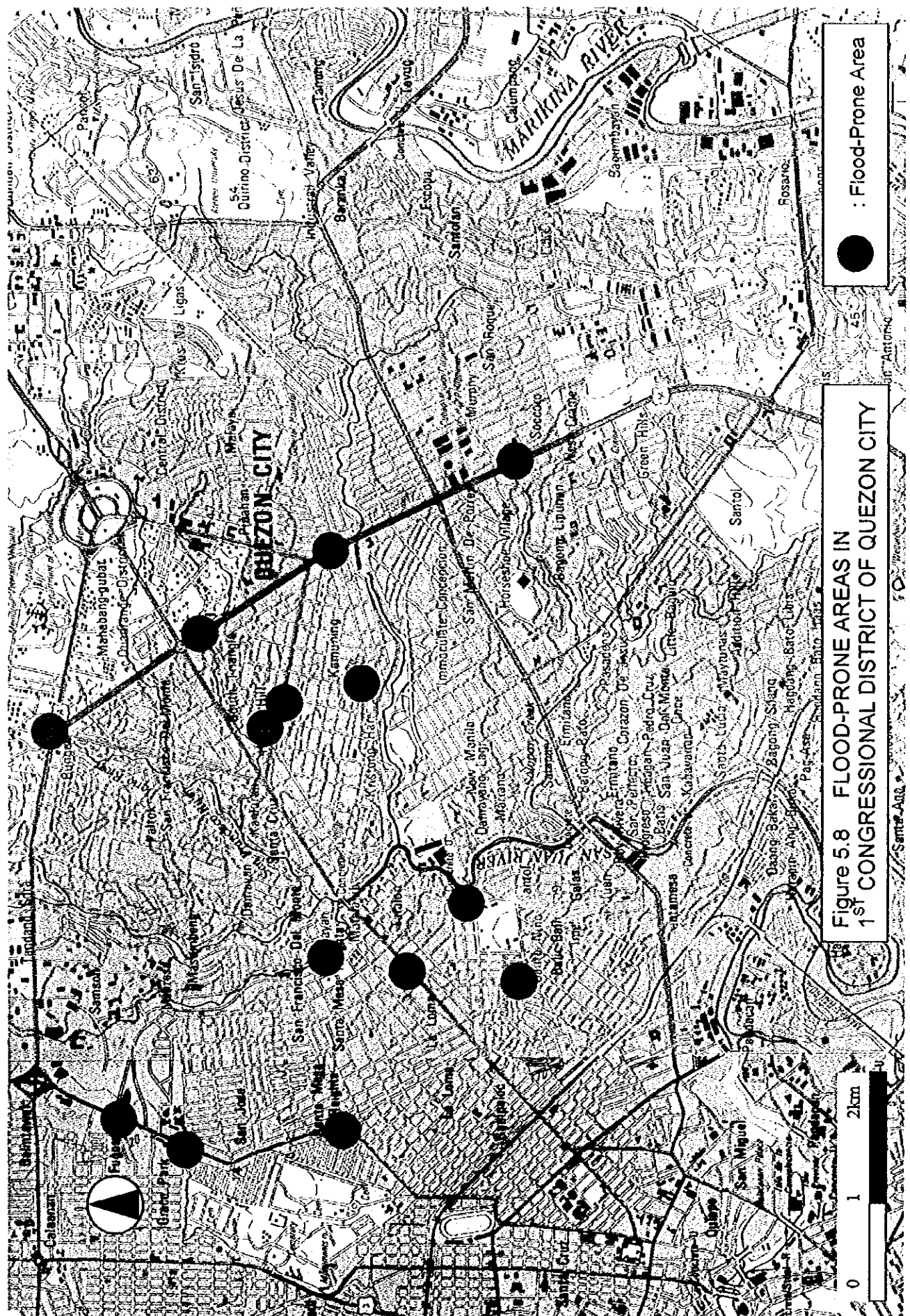
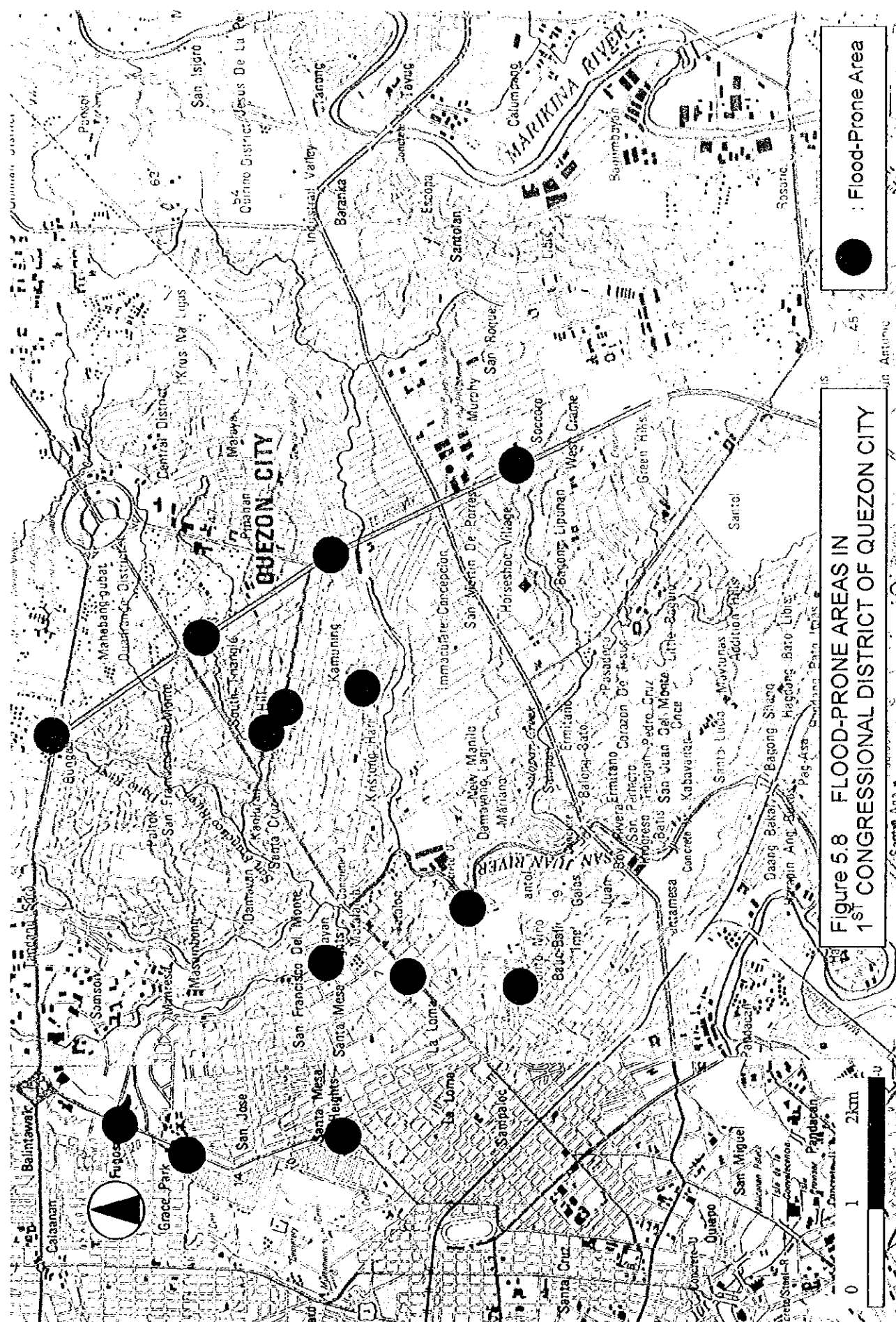
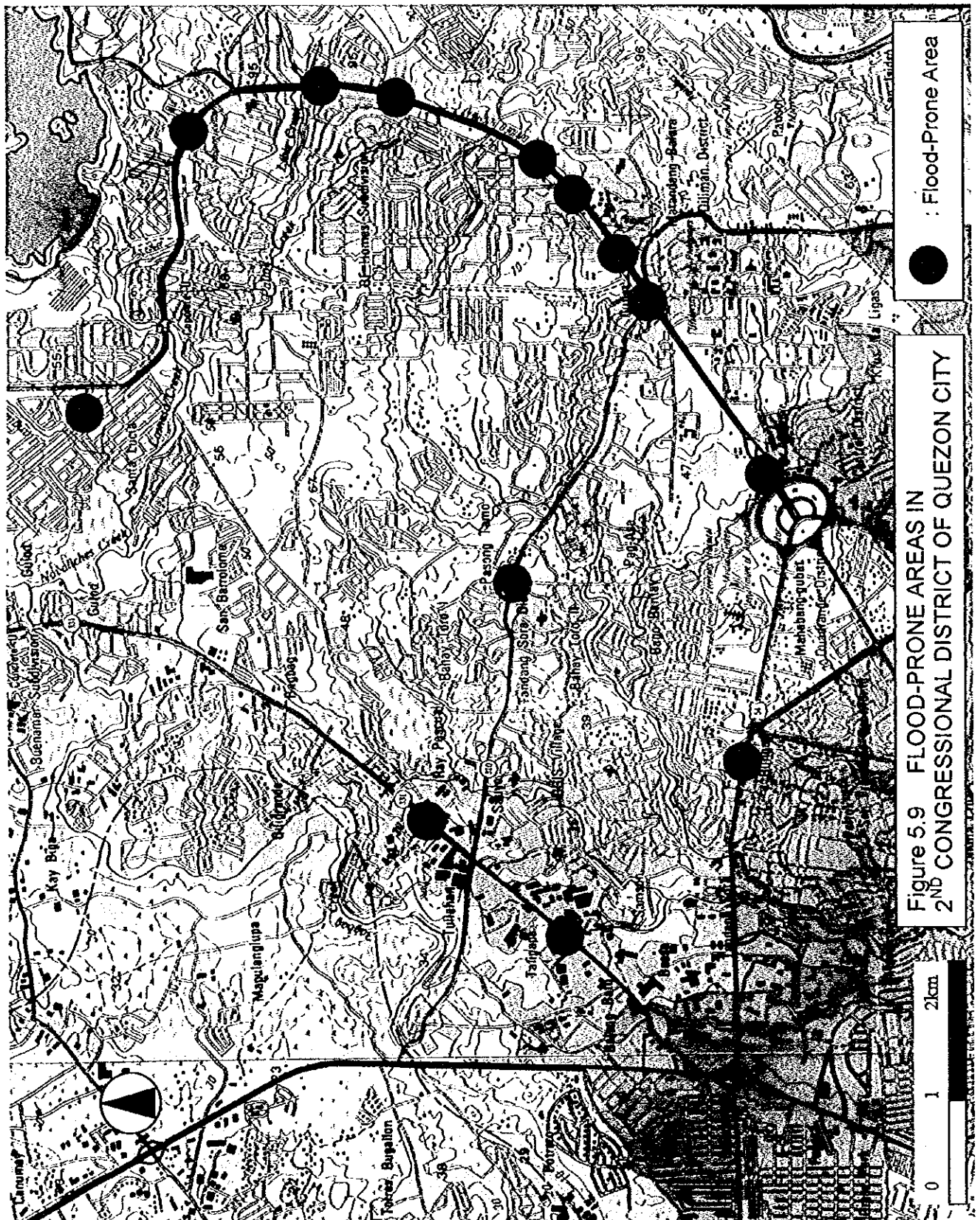
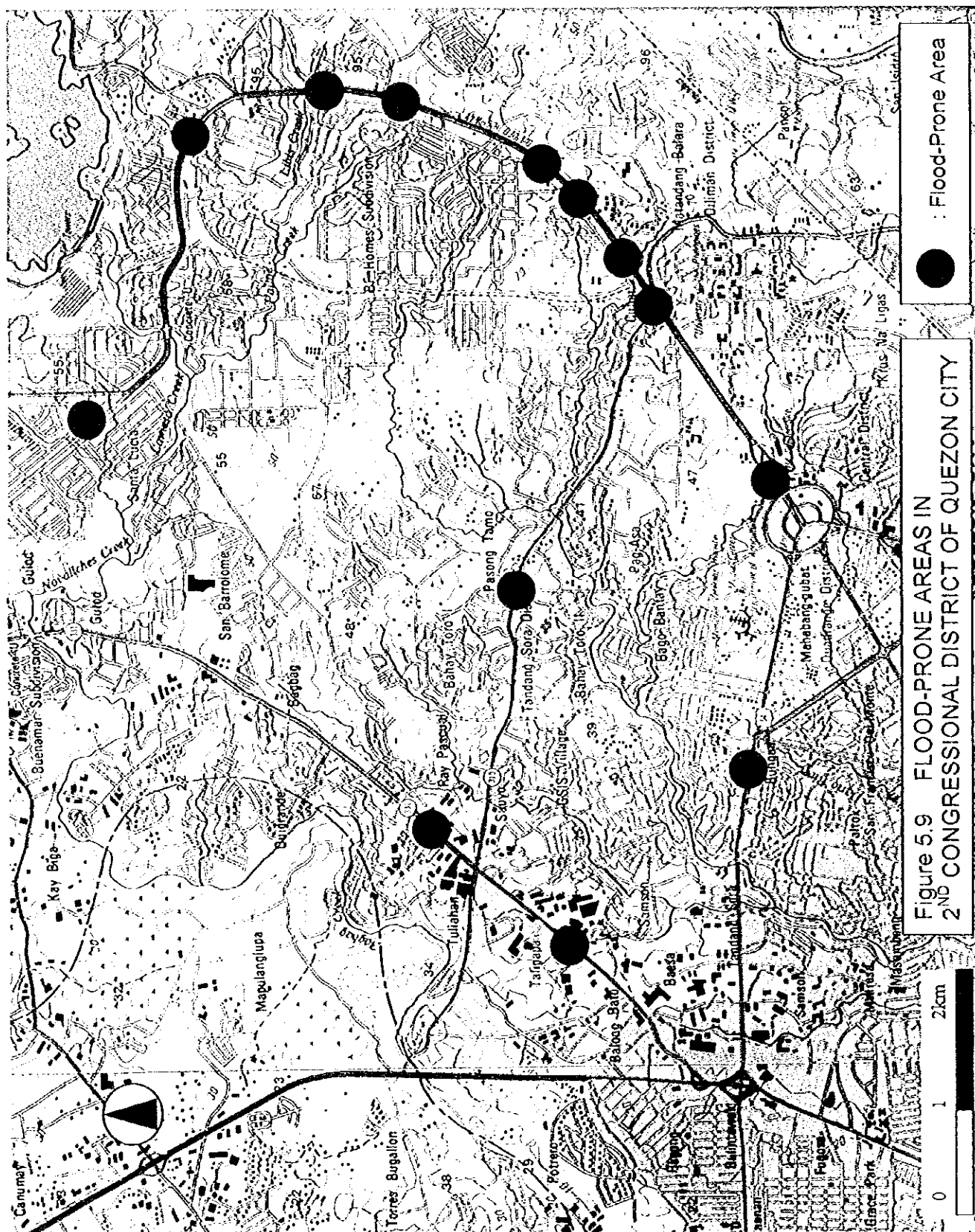


Figure 5.7 FLOOD-PRONE AREAS IN PASIG-MARIKINA









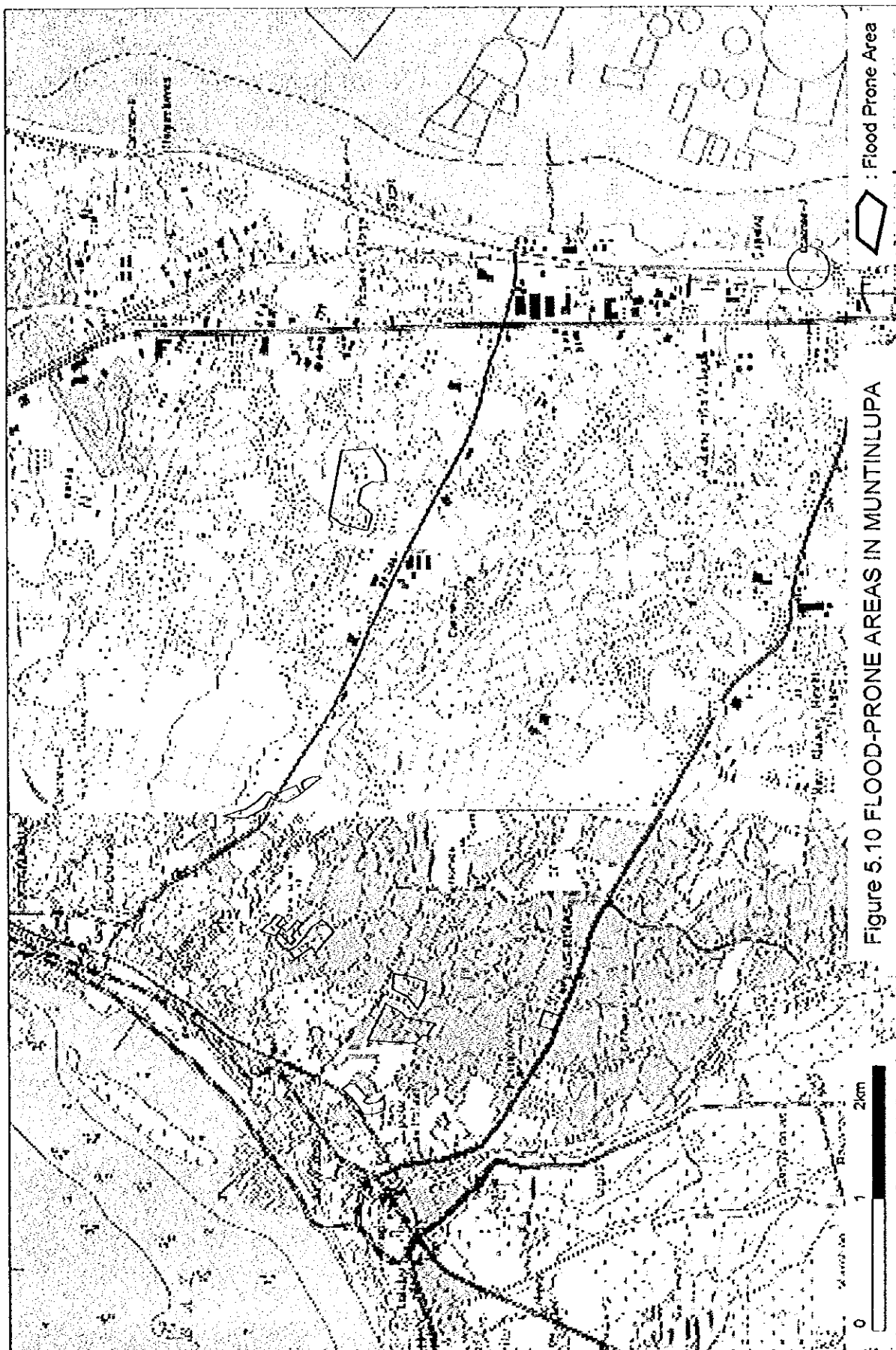
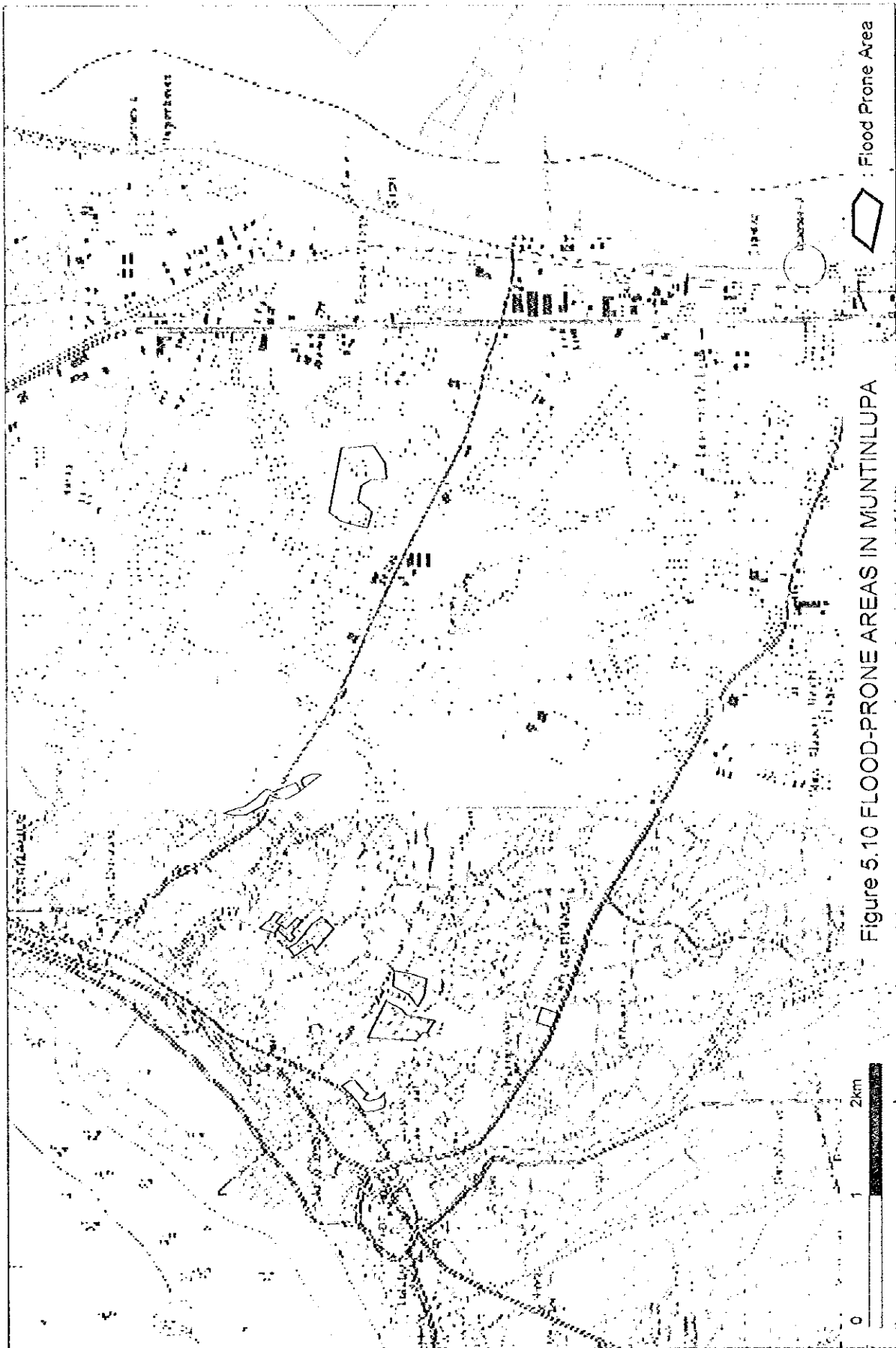
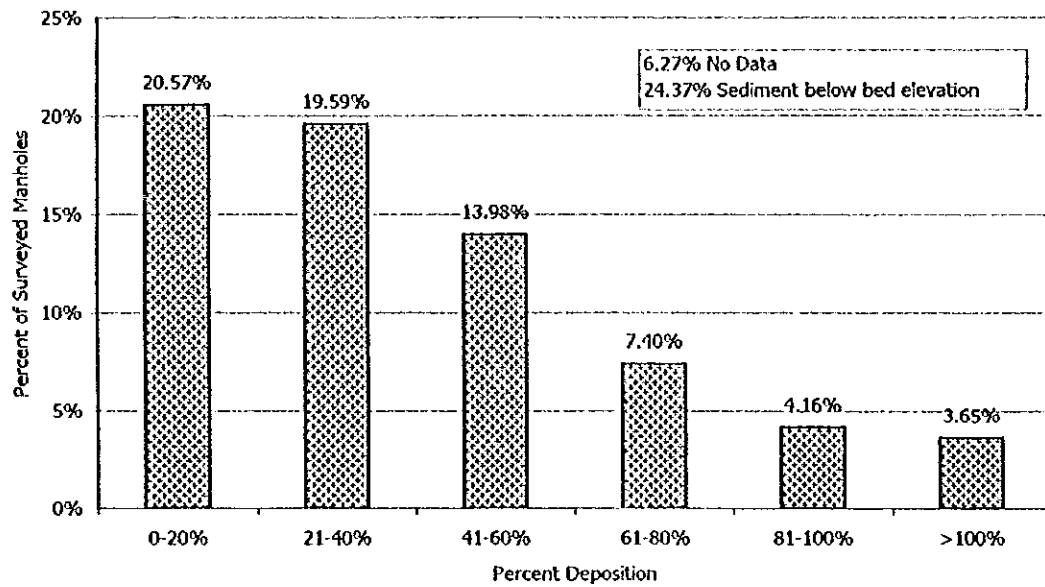


Figure 5.10 FLOOD-PRONE AREAS IN MUNTINLUPA



North Manila and Suburbs



South Manila and Suburbs

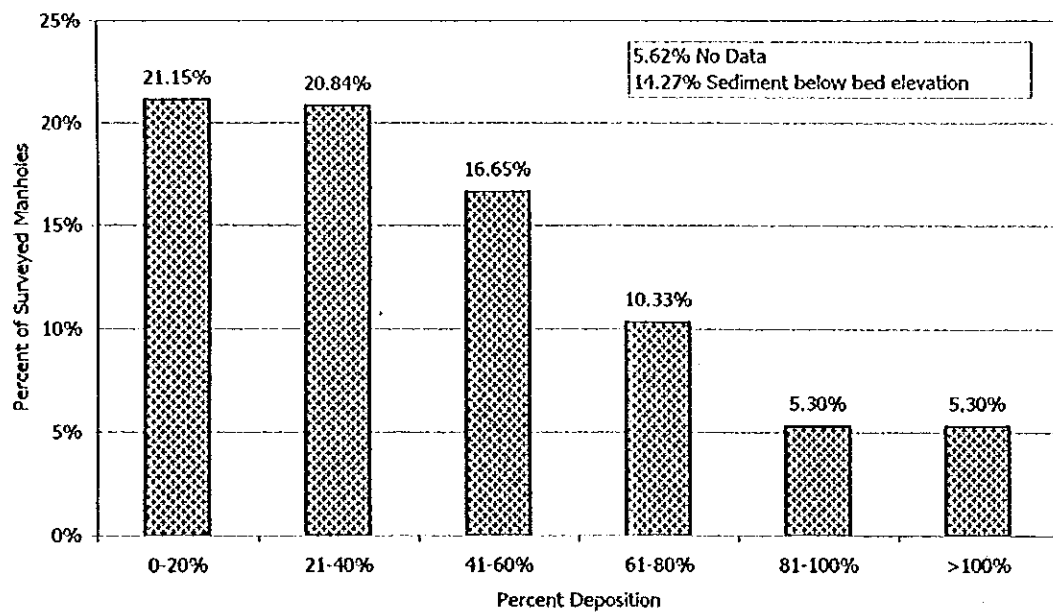


Figure 6.1 SEDIMENT DEPOSITION IN SURVEYED MANHOLES

Photos



Photo 1 SURVEY TEAM OPENING MANHOLE

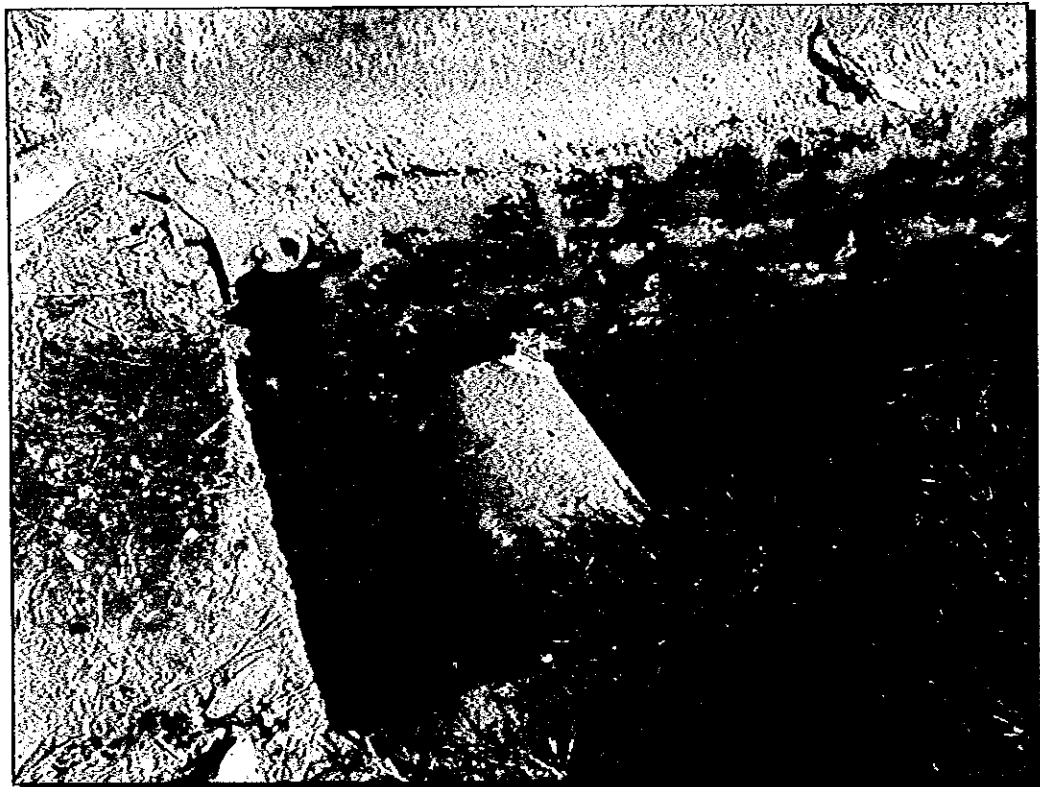


Photo 2 SHORT PIPE BLOCKING CREEK



Photo 3 GARBAGE AND SEDIMENT (TAKEN AFTER FLOOD)



Photo 4 CONSTRUCTION MATERIALS/WASTES ALONG SIDEWALK



Photo 5 RUNOFF CASCADING OVER BLUMENTRITT INTERCEPTOR

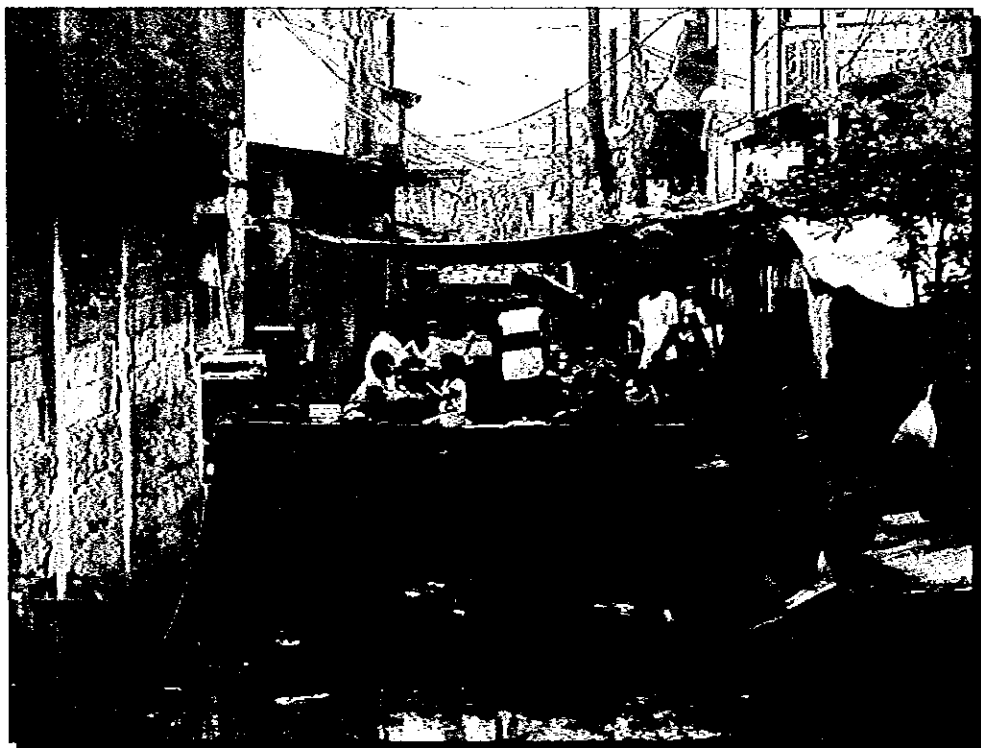


Photo 6 ACCESS BRIDGE DOWNSTREAM OF BATANGAS



Photo 7 INFORMAL SETTLERS INSIDE ESTERO DE MAGDALENA (LA TORRE)

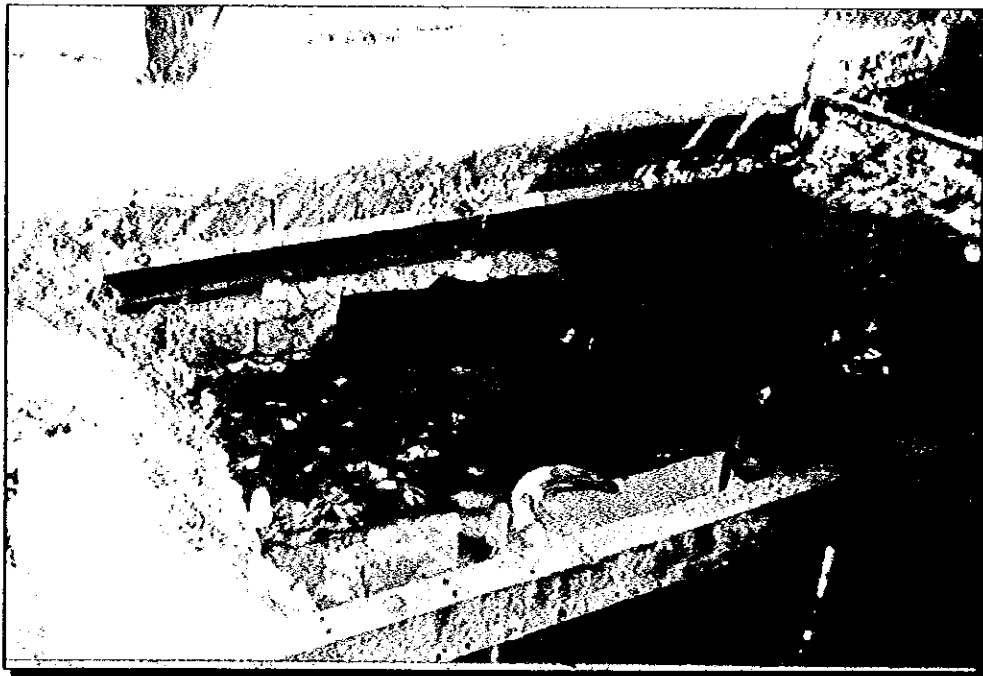


Photo 8 CONSTRICTED ROAD CROSSING (PNR OPEN CANAL/VITO CRUZ)



Photo 9 ROAD CROSSING (ESTERO DE SAN LAZARO/LAGUNA)



Photo 10 RAILROAD CROSSING (ESTERO DE MAYPAJO)



Photo 11 PEDESTRIAN FOOT BRIDGE ALONG ESTERO DE MAGDALENA

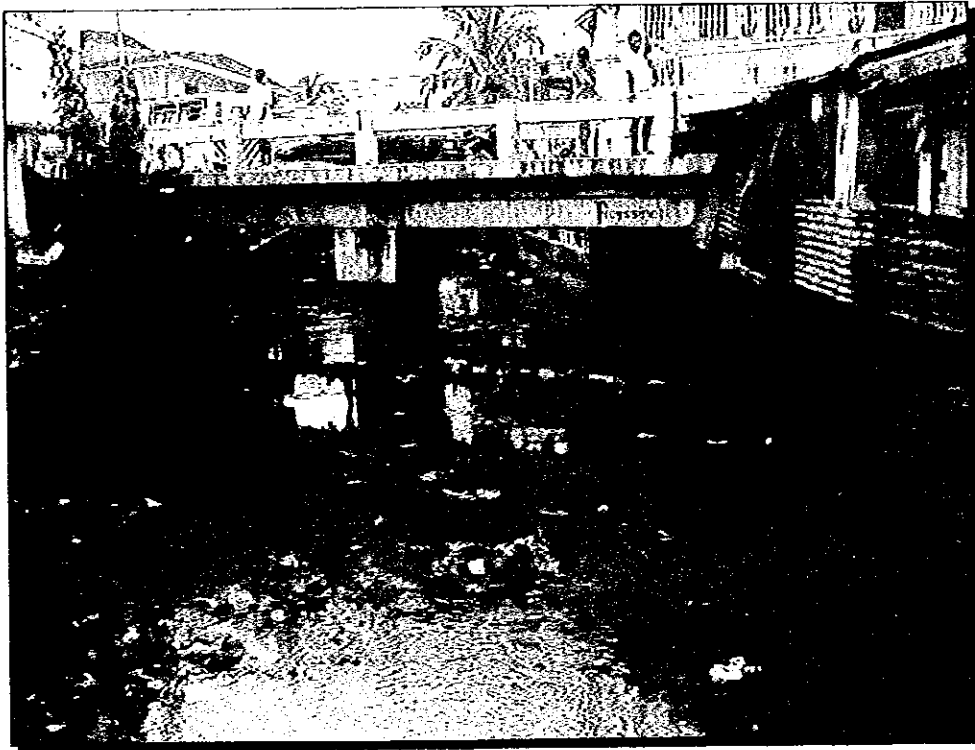


Photo 12 SEWER LINE CROSSING ESTERO DE CALUBCUB



Photo 13 GARBAGE MOUNDS ALONG ESTERO DE VITAS



Photo 14 TRASH RACK AT LIBERTAD OUTFALL (DIAN SIDE)

