








**LEGEND :** Site C2 - RW Division Map

**KEL. PARANG**

-  RW - 3 (Pop. = 1575)
-  RW - 4 (Pop. = 1474)

**KEL. BONGAYA**

-  RW - 5
-  RW - 6
-  RW - 7
-  RW - 8
-  RW - 9

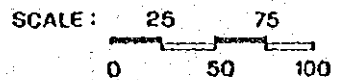
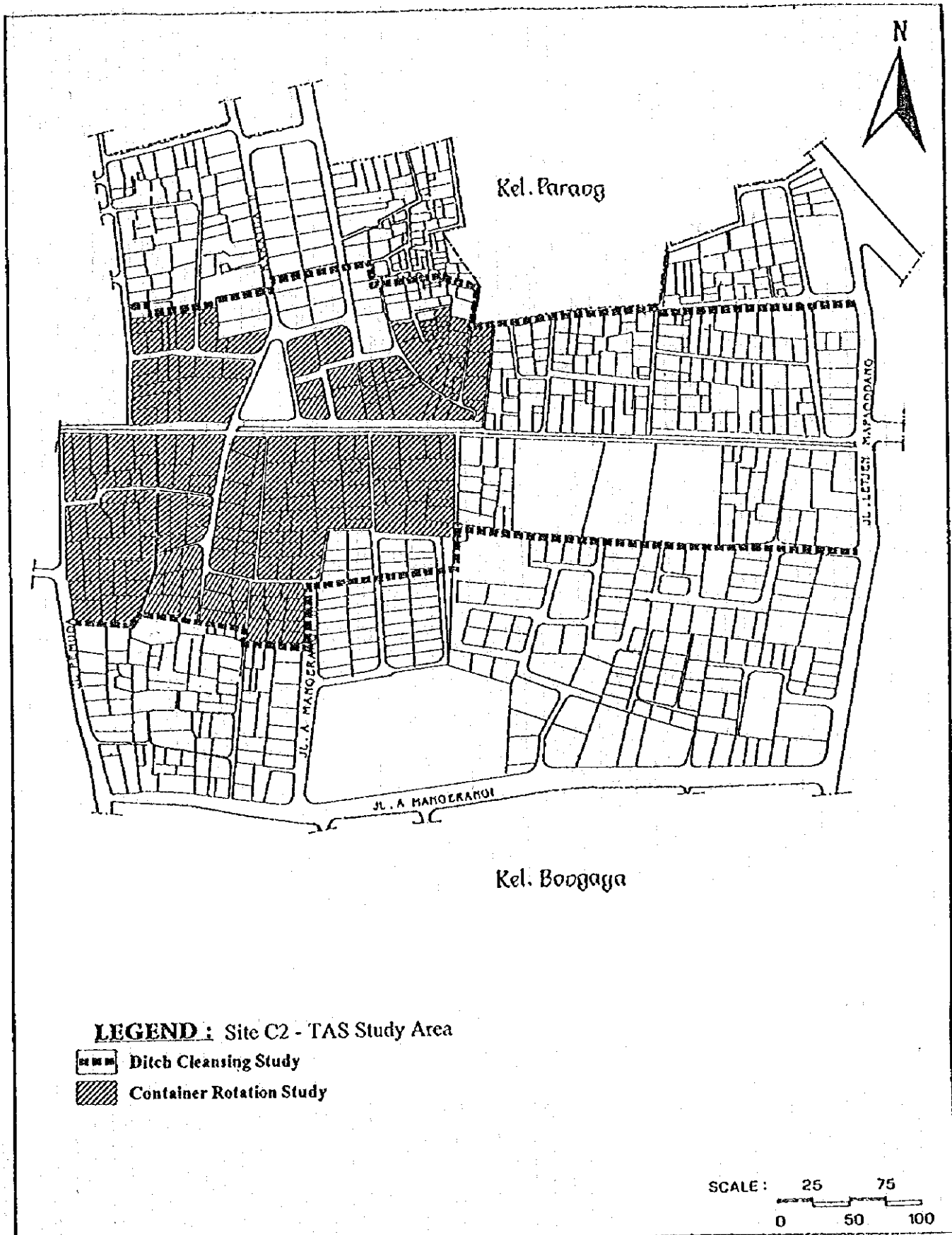


FIG. 6.51

**RW - MAP**

KEL. PARANG - KEC. MAMAJANG AND KEL. BONGAYA - KEC. TAMALATE

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



**LEGEND : Site C2 - TAS Study Area**

-  Ditch Cleansing Study
-  Container Rotation Study

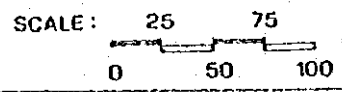
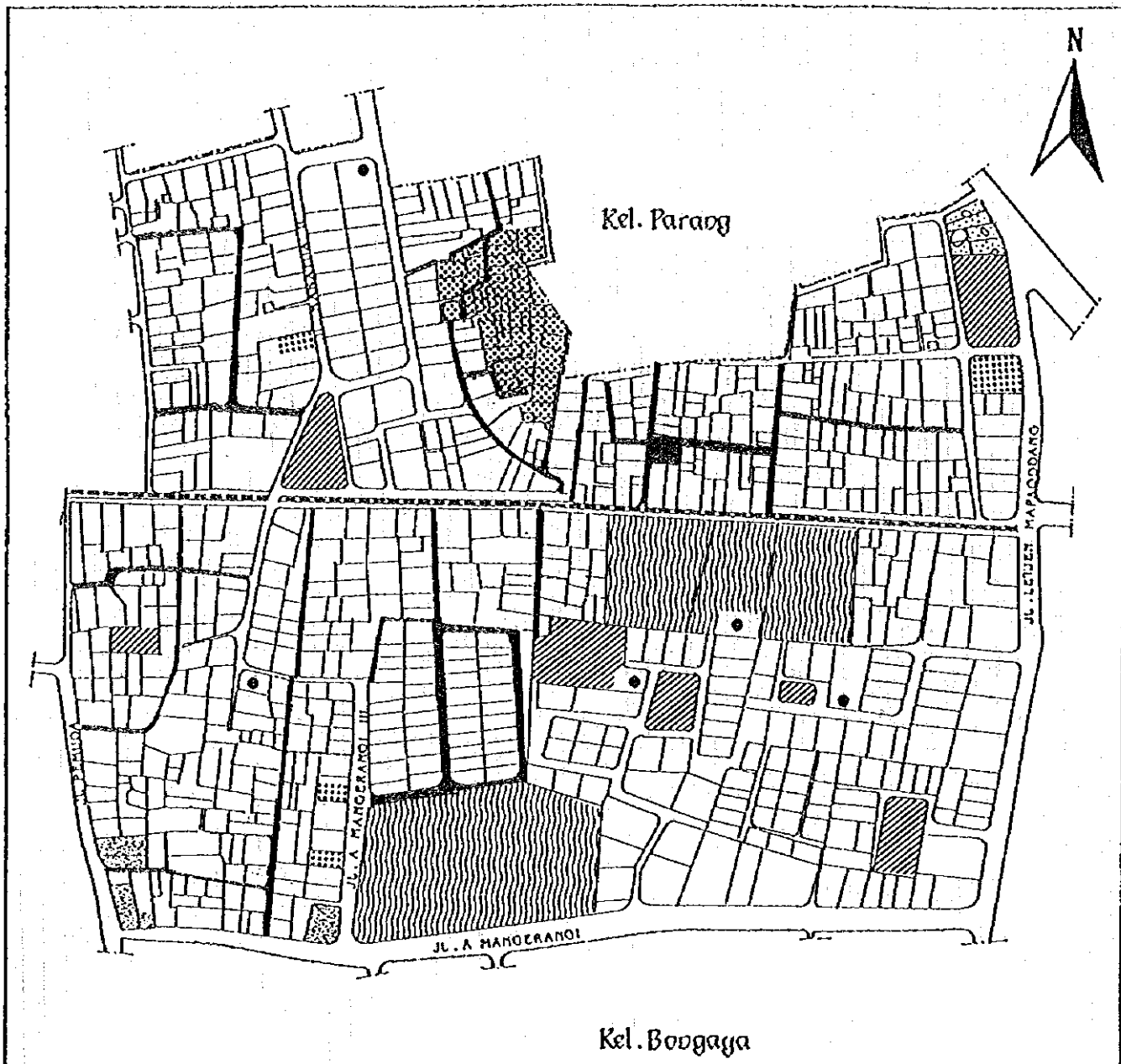


FIG. 6.52











**TAS STUDY AREA MAP**

KEL. PARANG • KEC. MAMAJANG AND KEL. BONGAYA • KEC. TAMALATE

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



**LEGEND** : Site C2 - Land Use Map

- |   |                                |   |                         |
|---|--------------------------------|---|-------------------------|
|  | Residential                    |  | Mosque / Church         |
|  | Commercial                     |  | School                  |
|  | Mixed Residential / Commercial |  | Green Area / Open Space |
|  | Institutional                  |  | KIP Area                |
|  | Ditch Under TAS Study          |  | Slum Area               |

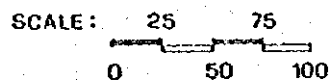
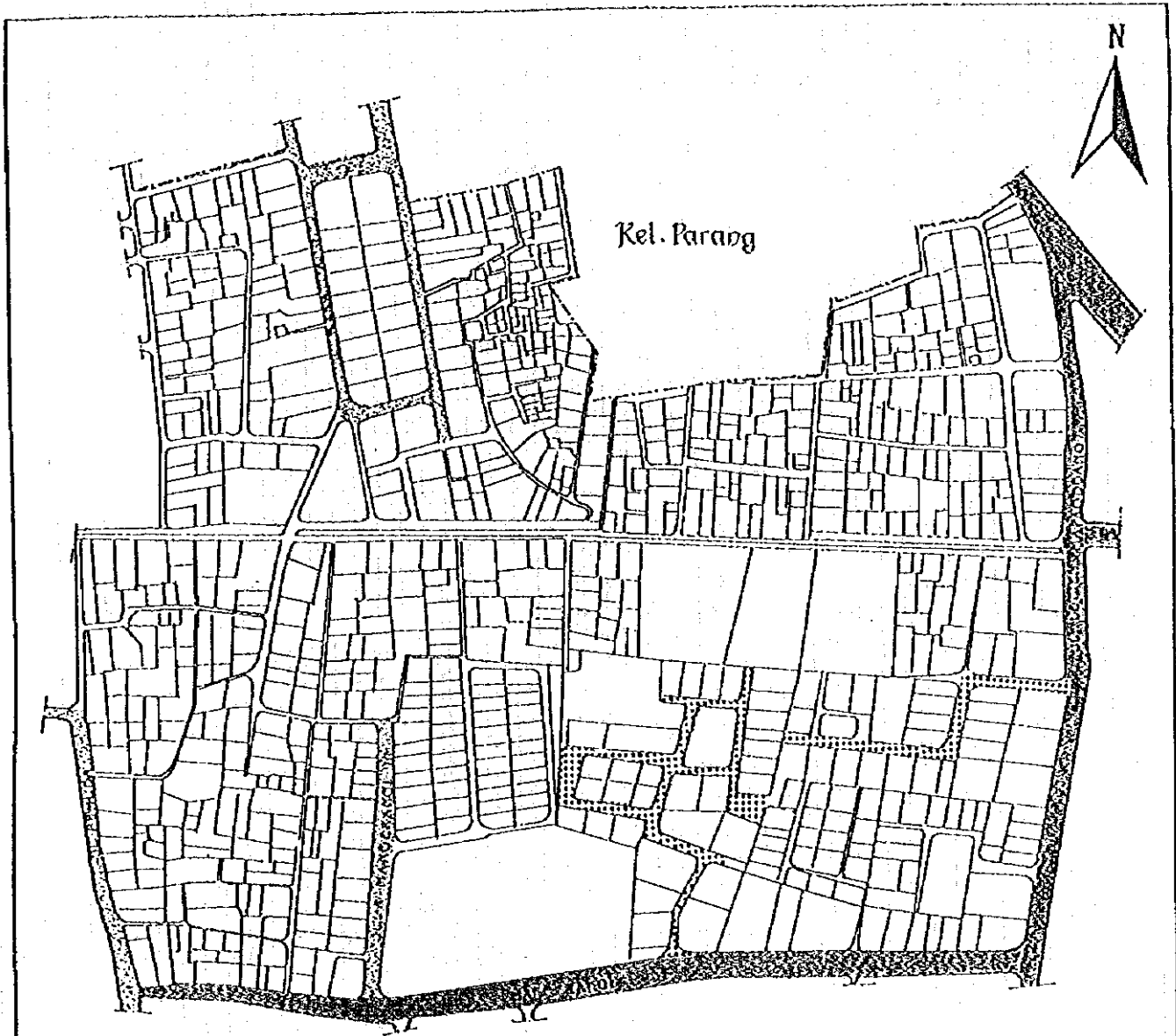


FIG. 6.53

**LAND USE MAP**

KEL. PARANG · KEC. MAMAJANG AND KEL. BONGAYA · KEC. TAMALATE

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE  
MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



Kel. Parang

Kel. Bongaya

**LEGEND :** Site C2 - Road Network Map

-  > 7 m
-  5 - 6,9 m
-  3 - 4,9 m
-  < 3 m

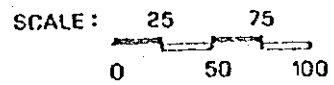
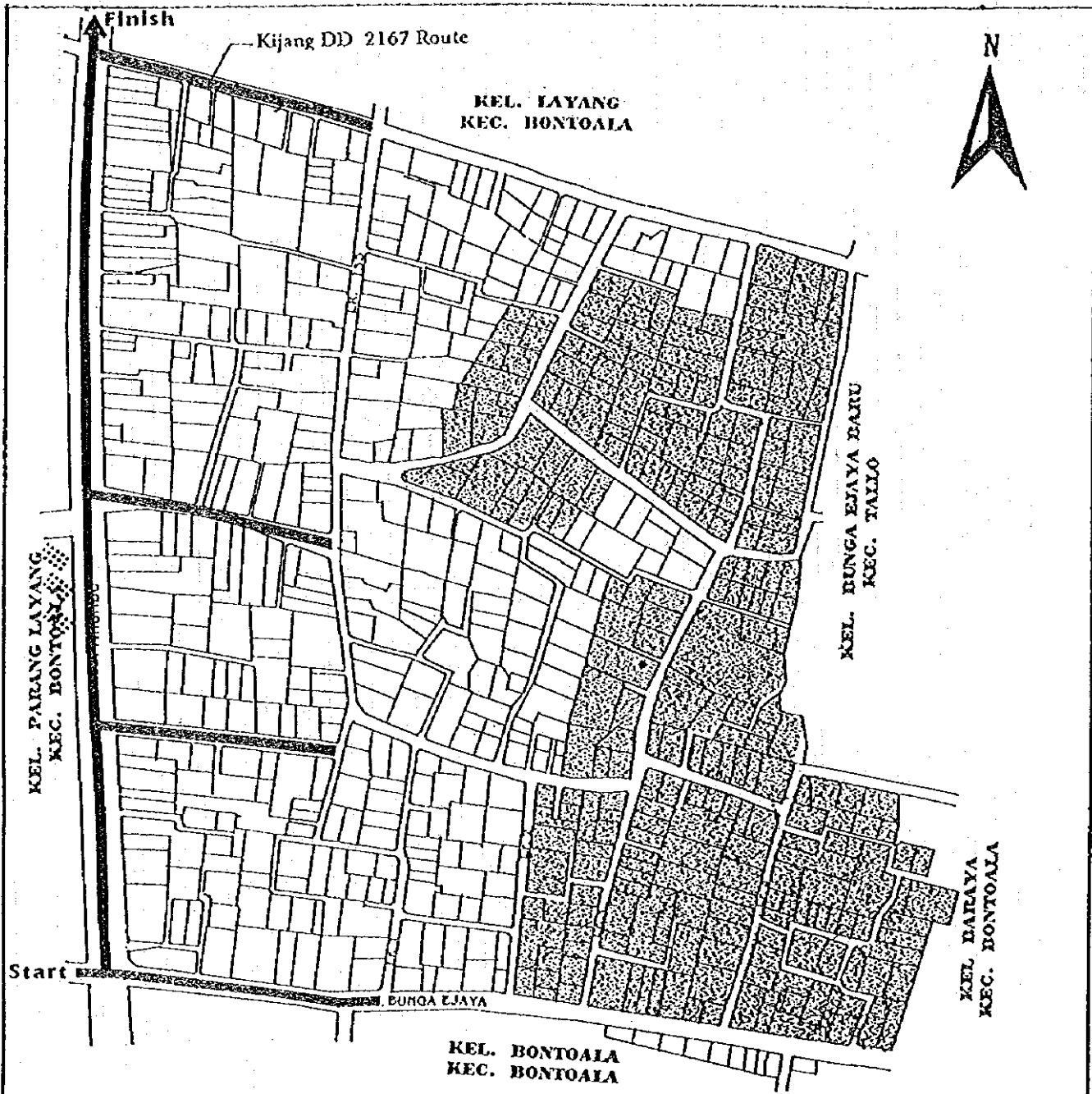


FIG. 6.54





**ROAD NETWORK MAP**

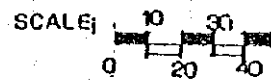
KEL. PARANG - KEC. MAMAJANG AND KEL. BONGAYA - KEC. TAMALATE

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



**LEGEND :** Site A - Pre TAS SWM System

-  Container Location
-  Citizens Take Directly to Armroll Container
-  Hand Cart Service (Irregular)
-  Kijang Collection Vehicle Route

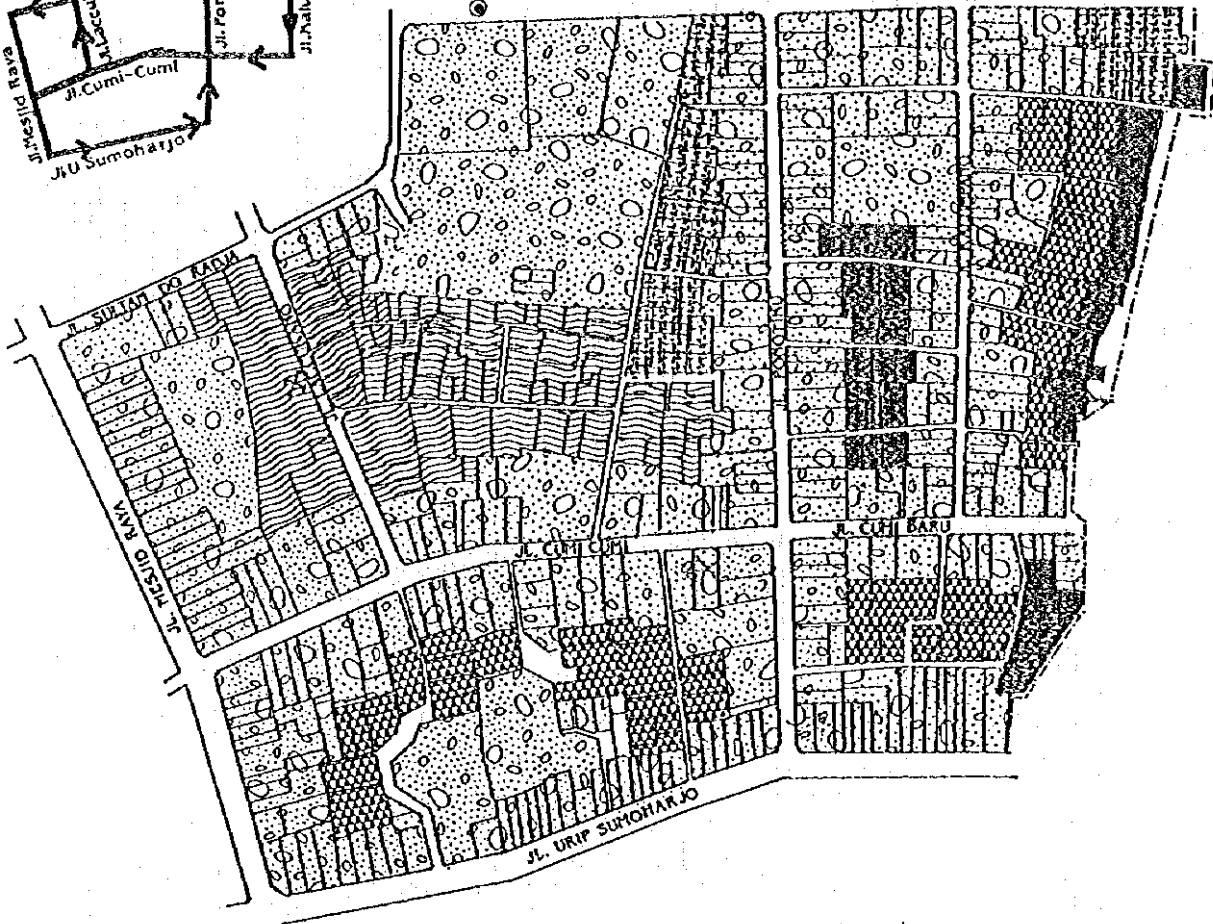
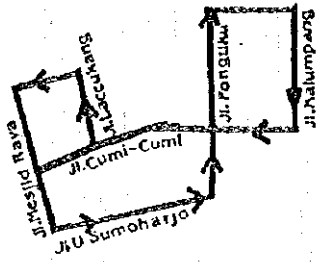


**FIG. 6.55**








**SOLID WASTE MANAGEMENT MAP**  
 KELURAHAN BUNGA EJAYA • KECAMATAN BONTOALA

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE  
 MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA

COLLECTION VEHICLE BDUJE DD 4029



**LEGEND:** Site B1 - Pre TAS SWM System

-  Dinas Kebersihan Vehicle Directly Door to Door
-  Citizens Take Directly to Dinas Kebersihan Vehicle
-  Citizens Take Directly to TPS
-  Citizens Take Directly to Armroll Container
-  No Collection Service, Waste self treatment (burning, burial)
-  Armroll Container
-  TPS

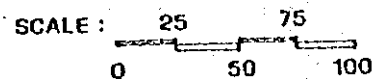


FIG. 6.56

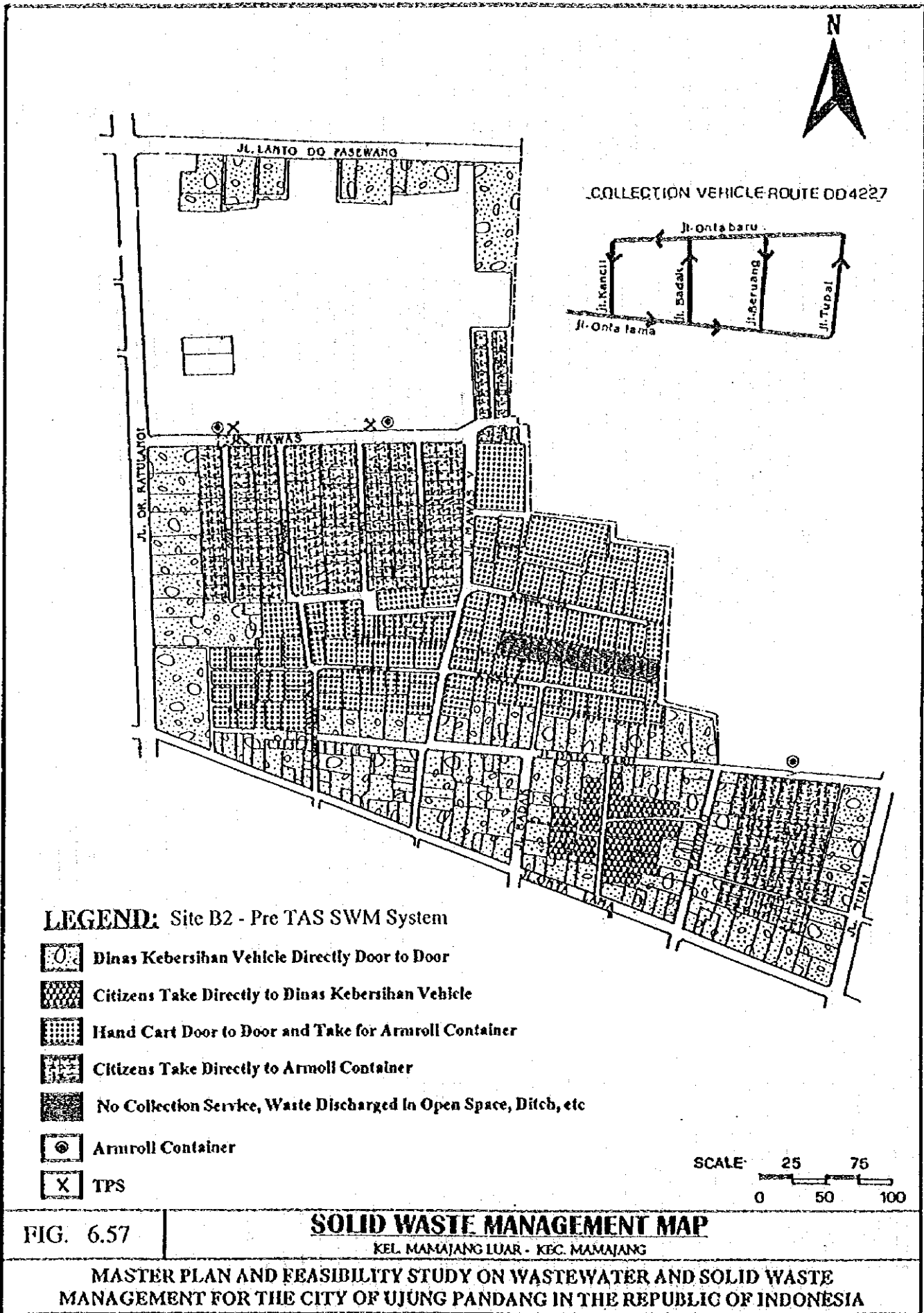
**SOLID WASTE MANAGEMENT MAP**

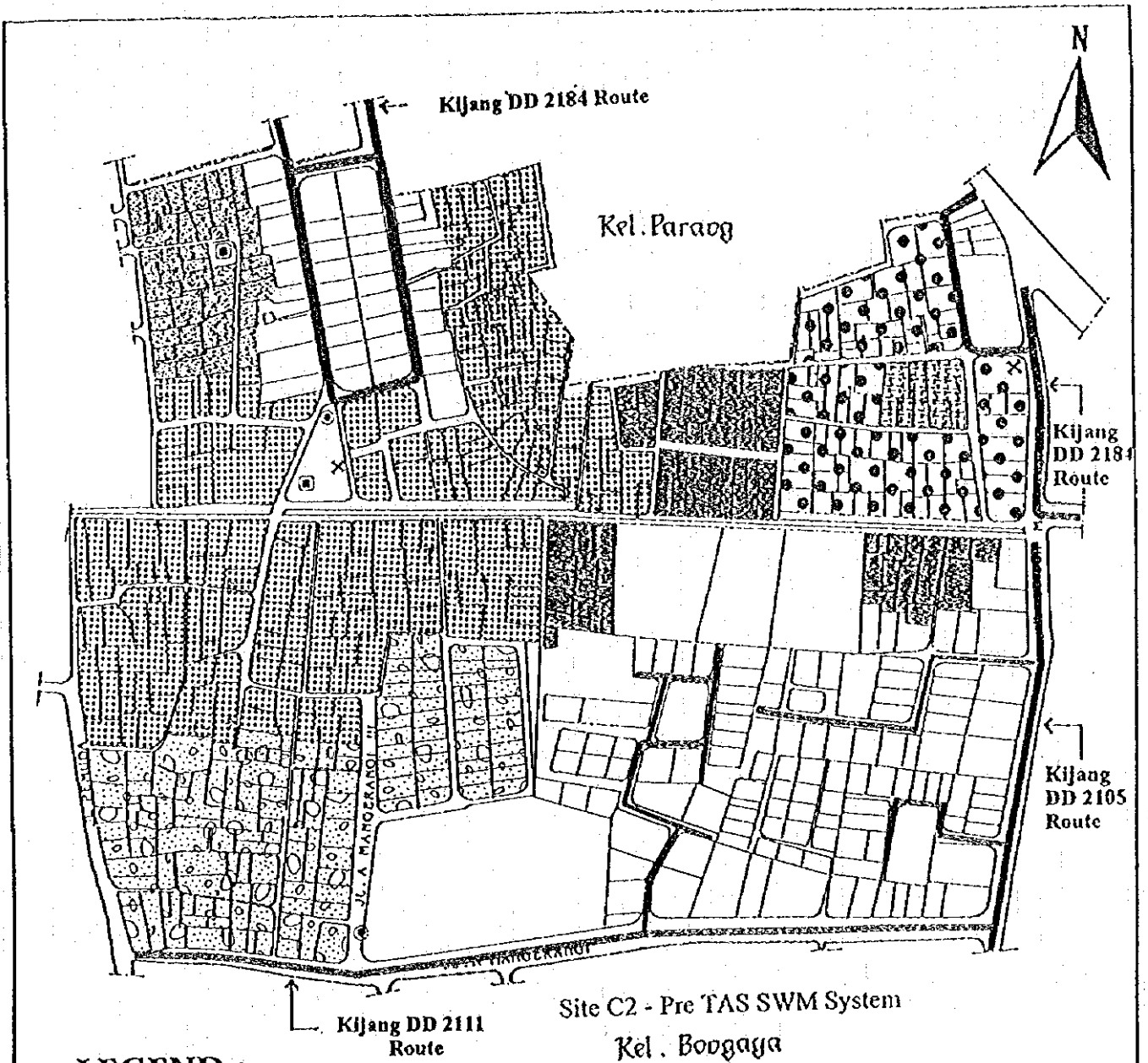
KEL. MALIMONGAN BARU KEC BONTOLA

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



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**LEGEND :**

- Dinas Kebersihan Vehicle Directly Door to Door
- Hand Cart Door to Door and take for TPS
- Citizens Take Directly to TPS
- Citizens Take Directly to Armroll Container
- Citizens Take Directly to Armroll Container
- Citizens Take Directly to Open Space
- No Collection service, waste self treatment (burning, burial)
- Container
- TPS
- Open Space
- Collection Vehicle Route

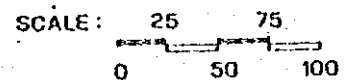
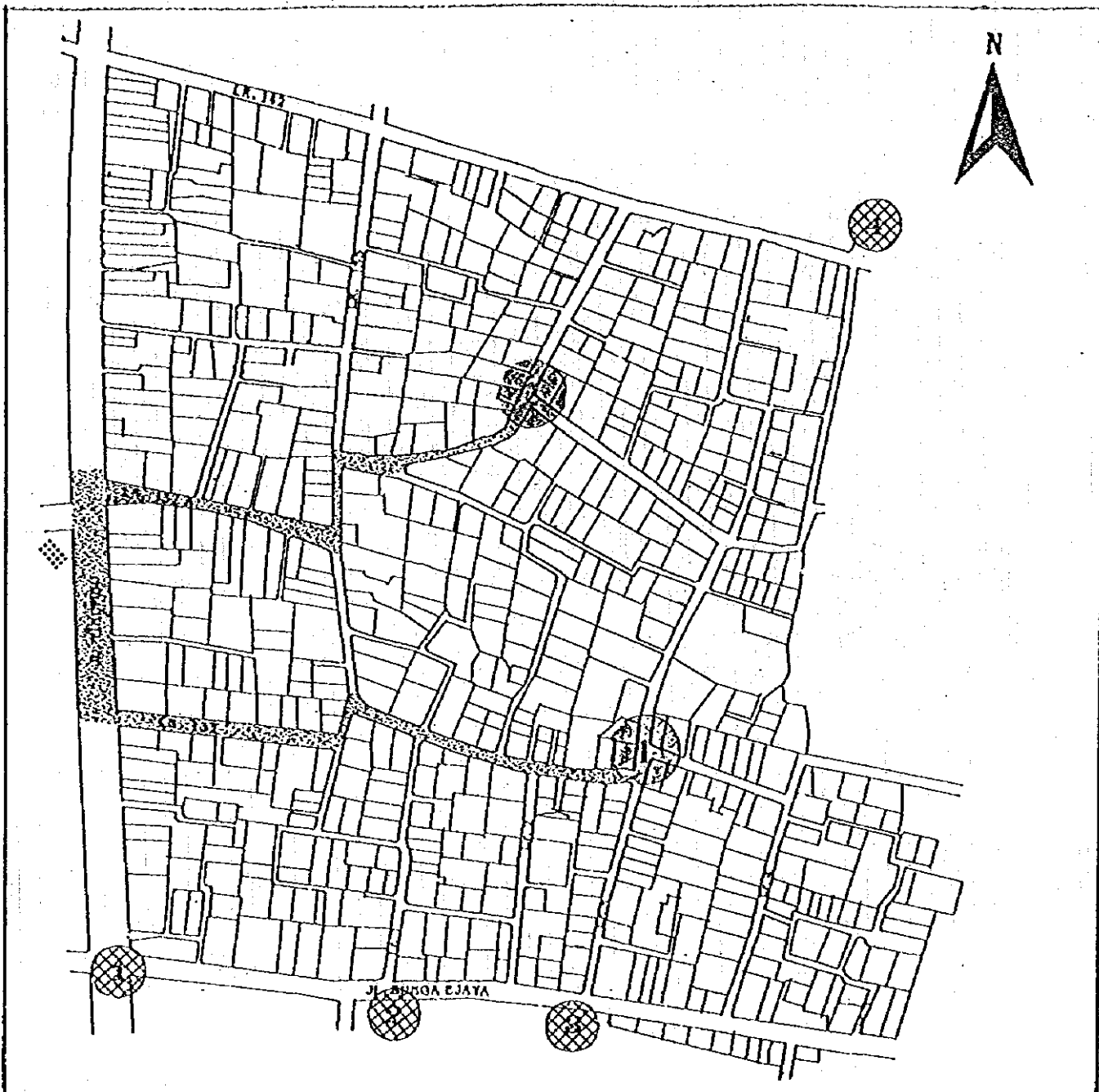


FIG. 6.58





**SOLID WASTE MANAGEMENT MAP**  
 KEL. PARANG - KEC. MAMAJANG AND KEL. BONGAYA - KEC. TAMALATE

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA





**LEGEND : Site A - TAS Implementation**

-  Location of Container
-  Location of JICA Hand Cart
-  Route of JICA Hand Cart
-  Proposal new sites for container ( 4 sites)

LOCATION OF JICA HAND CART	
1	2
MONDAY	TUESDAY
WEONEDAY	THUERSDAY
FRIDAY	SATURDAY

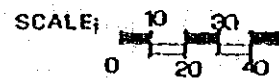
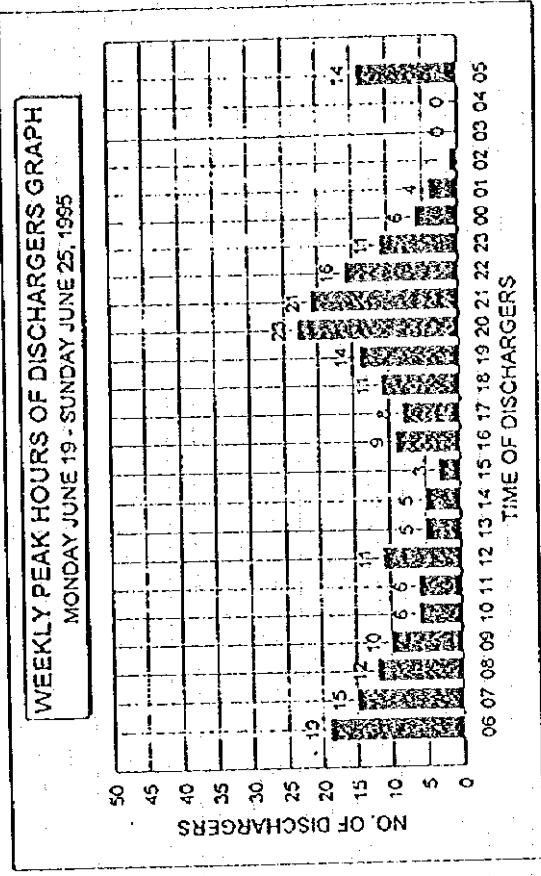
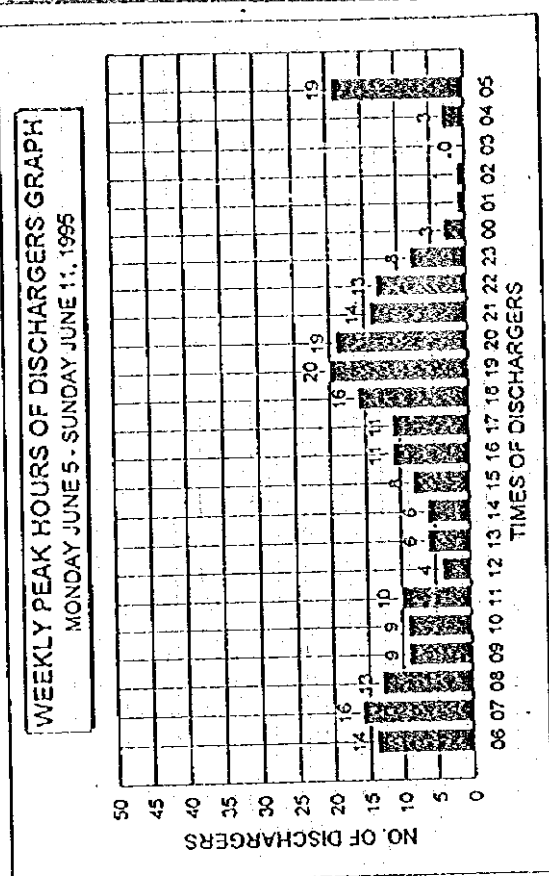
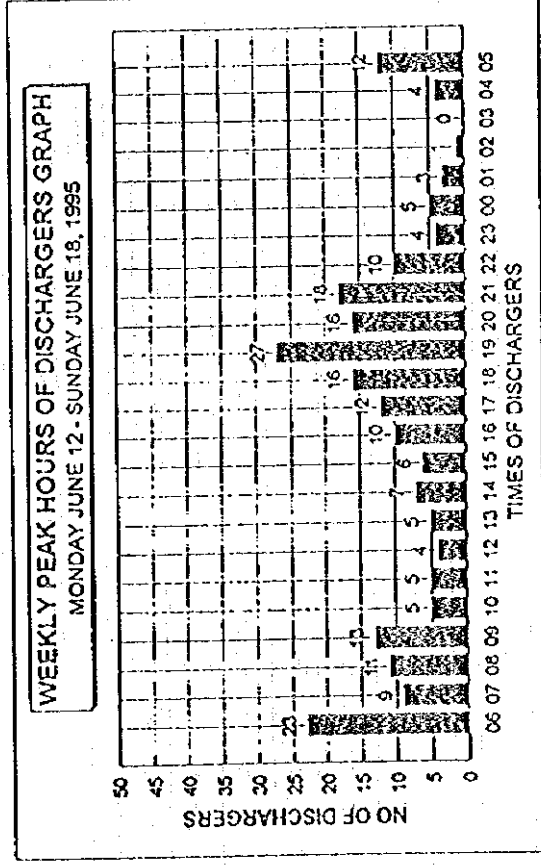
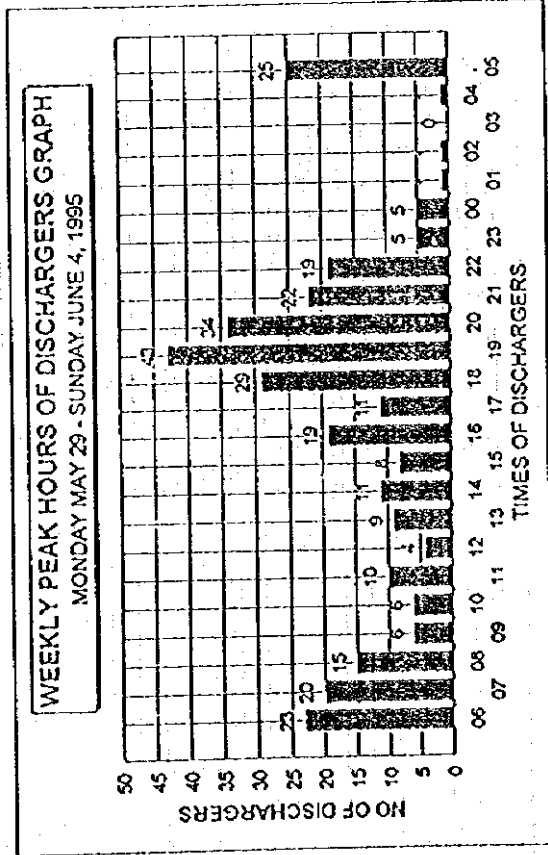


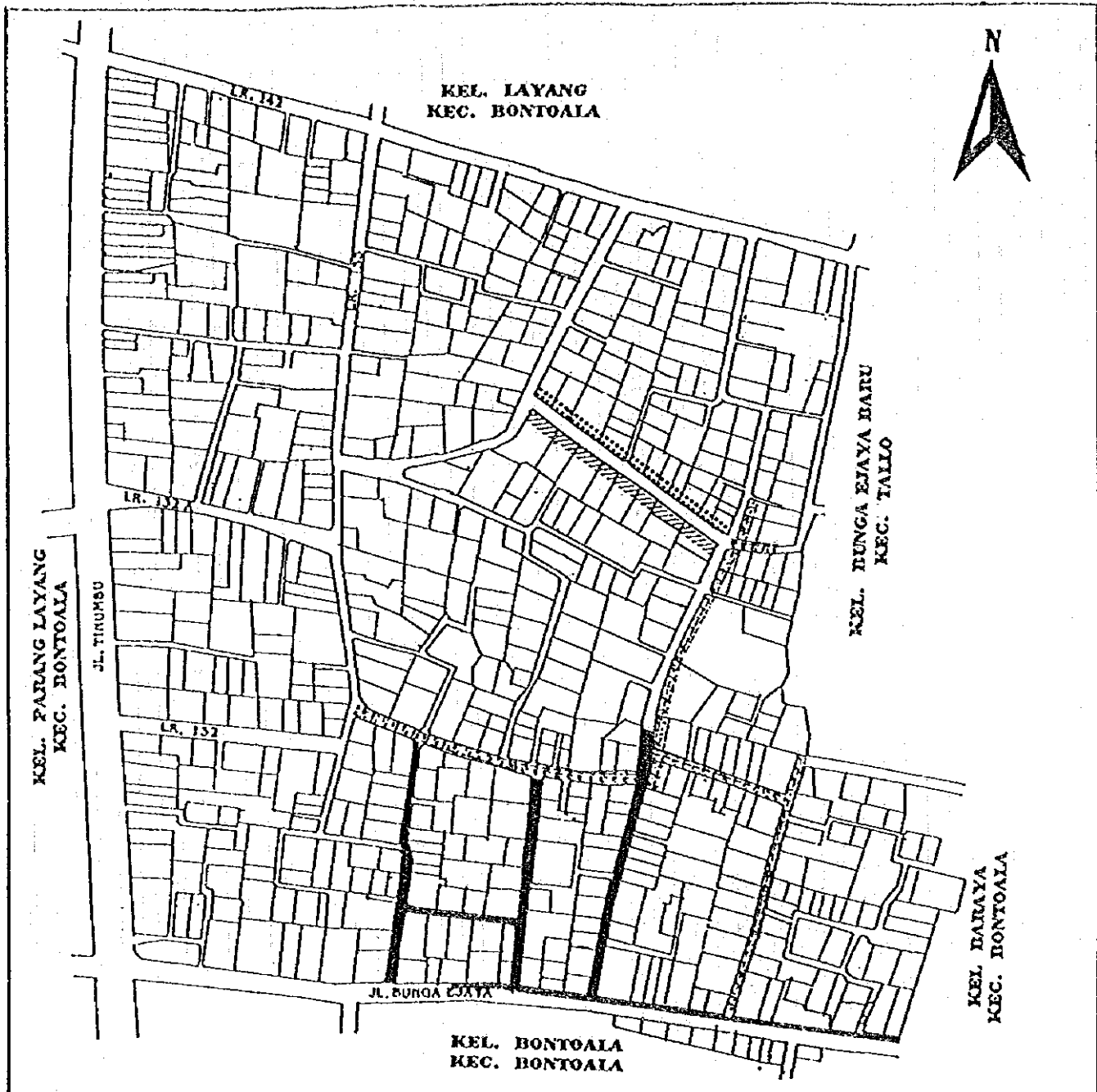
FIG. 6.59

**TAS IMPLEMENTATION MAP**  
 KELURAHAN BUNGA EJAYA - KECAMATAN BORTOALA





MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA

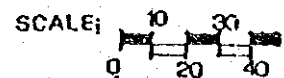


**FIG. 6.60** Site A - Discharge Time



**LEGEND : Site A - Community Participation in Ditch Cleansing**

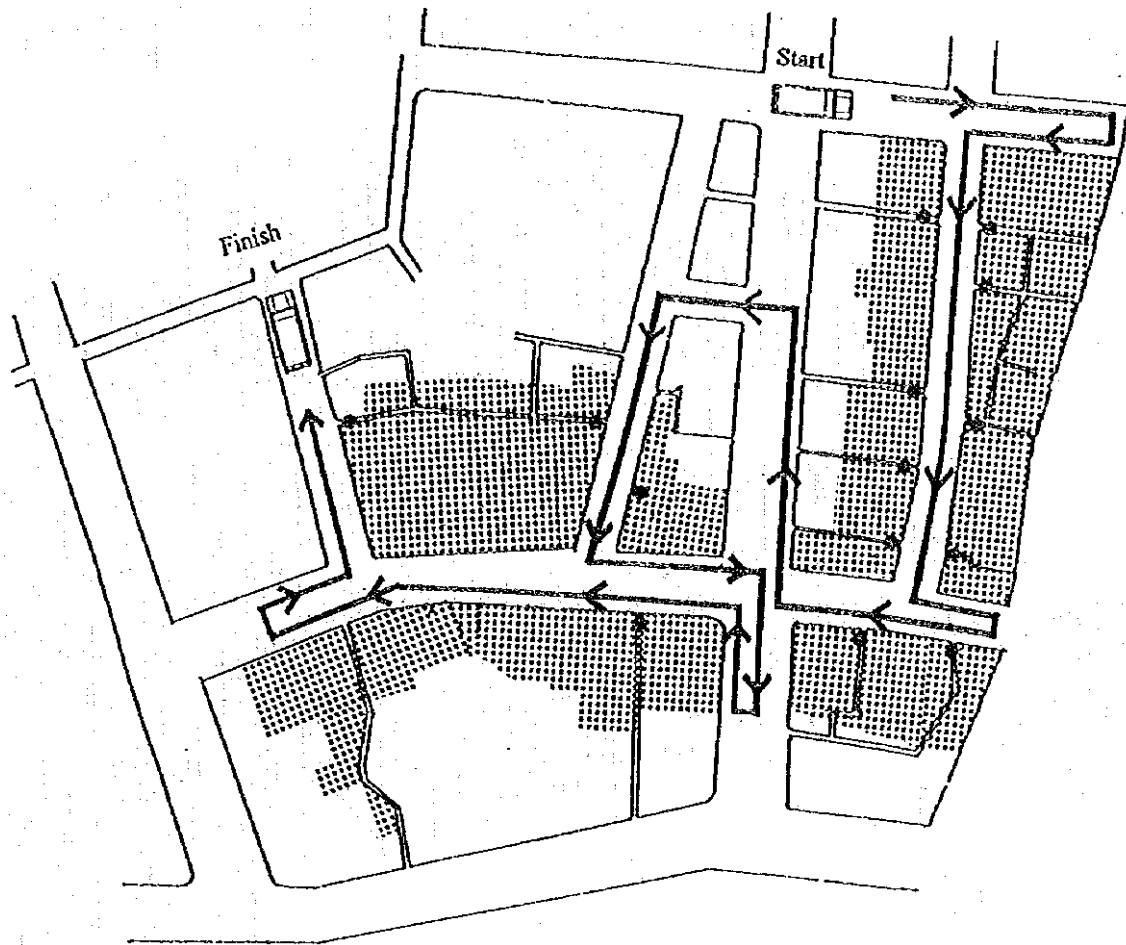
- |   |                 |         |
|---|-----------------|---------|
|  | Ditch Cleaning  | 1st Day |
|  | Street Sweeping |         |
| <hr/>   |                 |         |
|  | Ditch Cleaning  | 2nd Day |
|  | Street Sweeping |         |



**FIG. 6.61**



**COMMUNITY PARTICIPATION MAP**  
 KELURAHAN BUNGA EJAYA - KECAMATAN BONTOALA

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE  
 MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



Site B1 - TAS Implementation

**LEGEND :**

-  Open stations
-  Vehicle Route

Not to scale

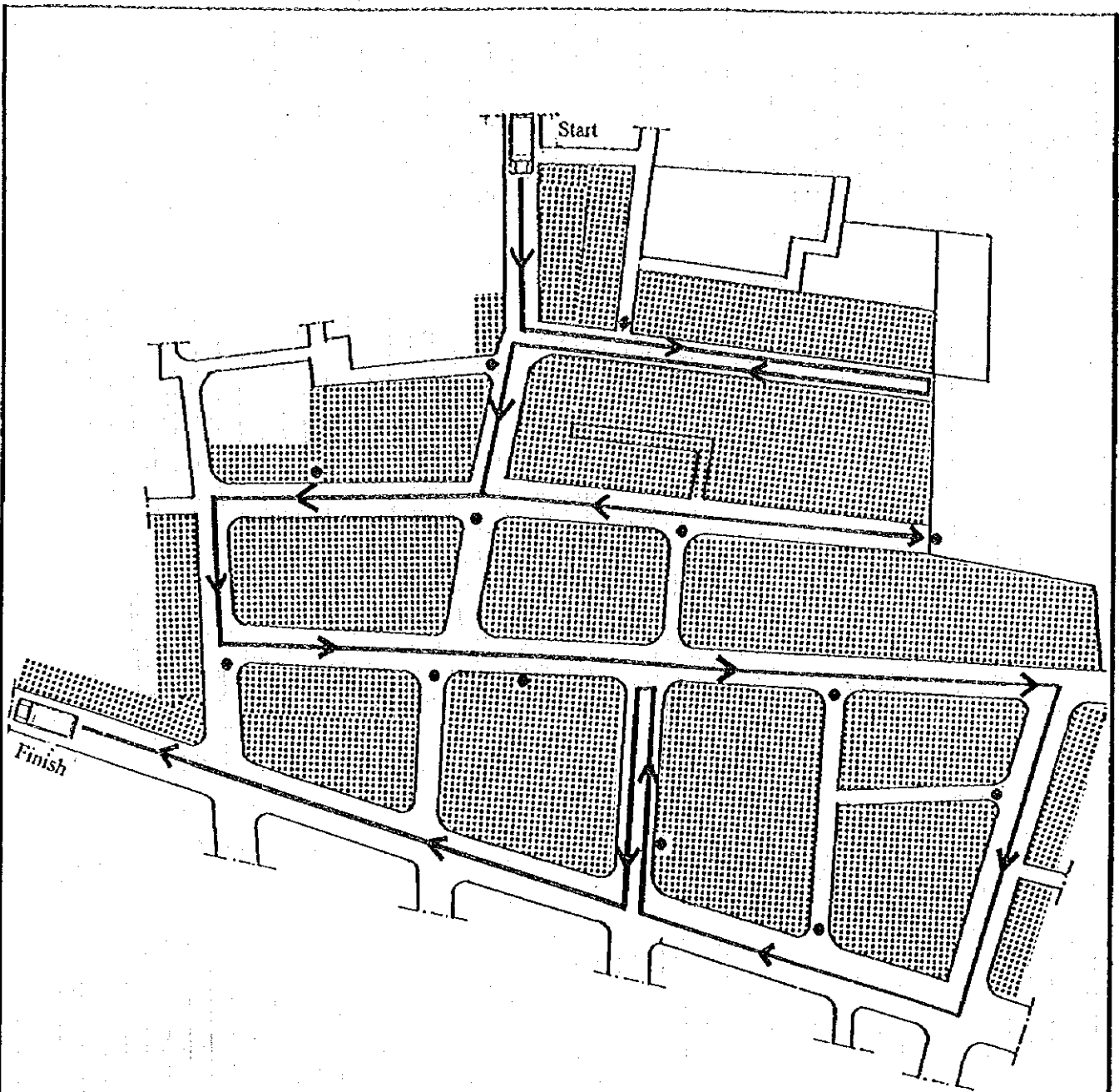
FIG. 6.62

**TAS IMPLEMENTATION MAP**  
 KEL. MALIMONGAN BARU - KEC. DONTOLA

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE  
 MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA





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Site B2 - TAS Implementation

**LEGEND :**

-  Open stations
-  Rear movement

Not to scale

FIG. 6.63

**TAS IMPLEMENTATION MAP**  
 KEL. MAMAJANO LUAR • KEC. MAMAJANO

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE  
 MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



A.D. 1995

Site B

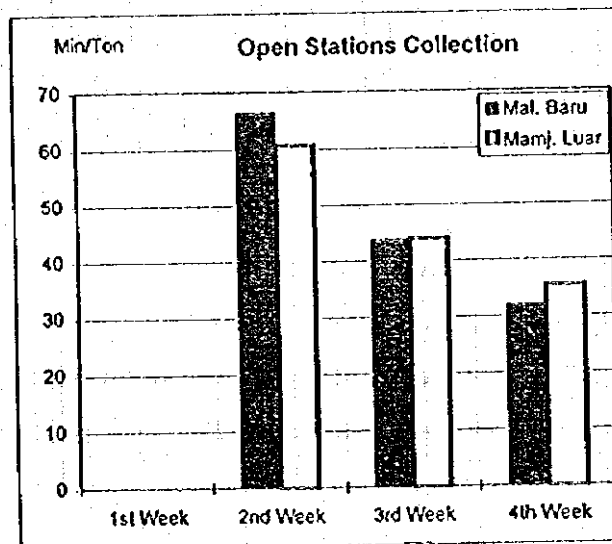
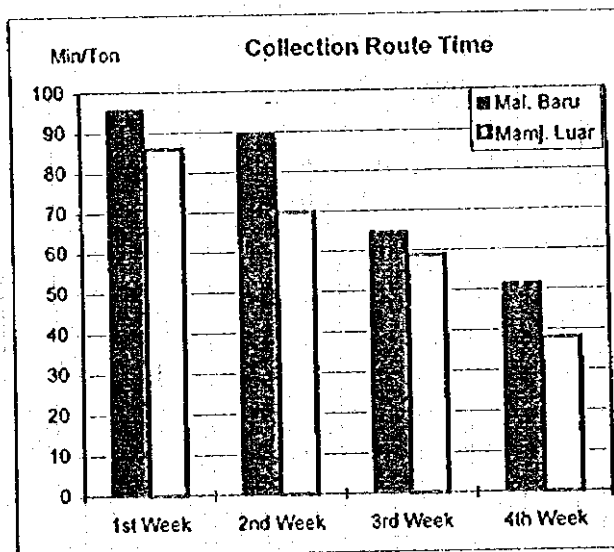
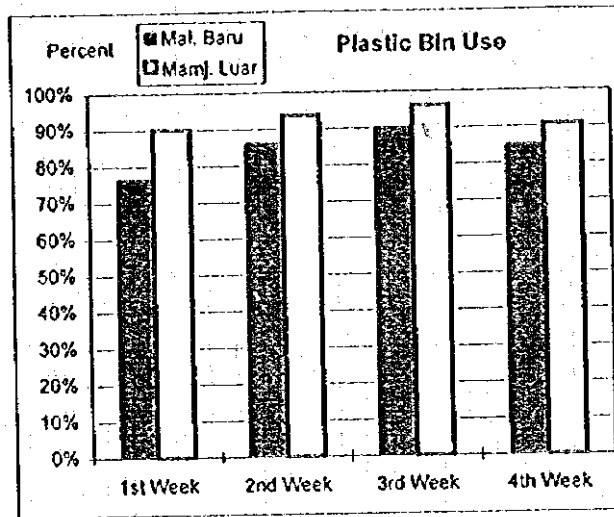


FIG. 6.64

Site B - Graphical Presentation of Results

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



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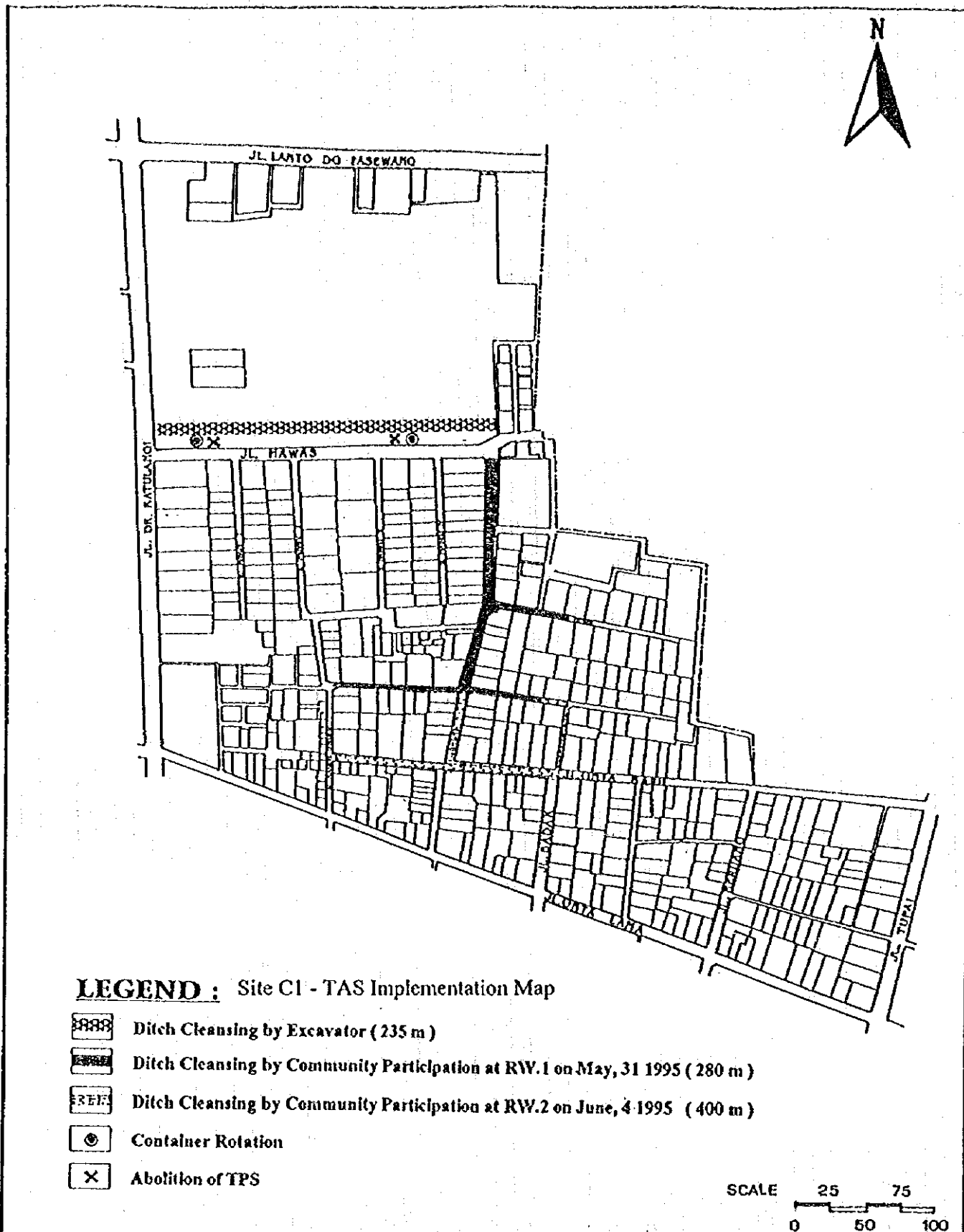
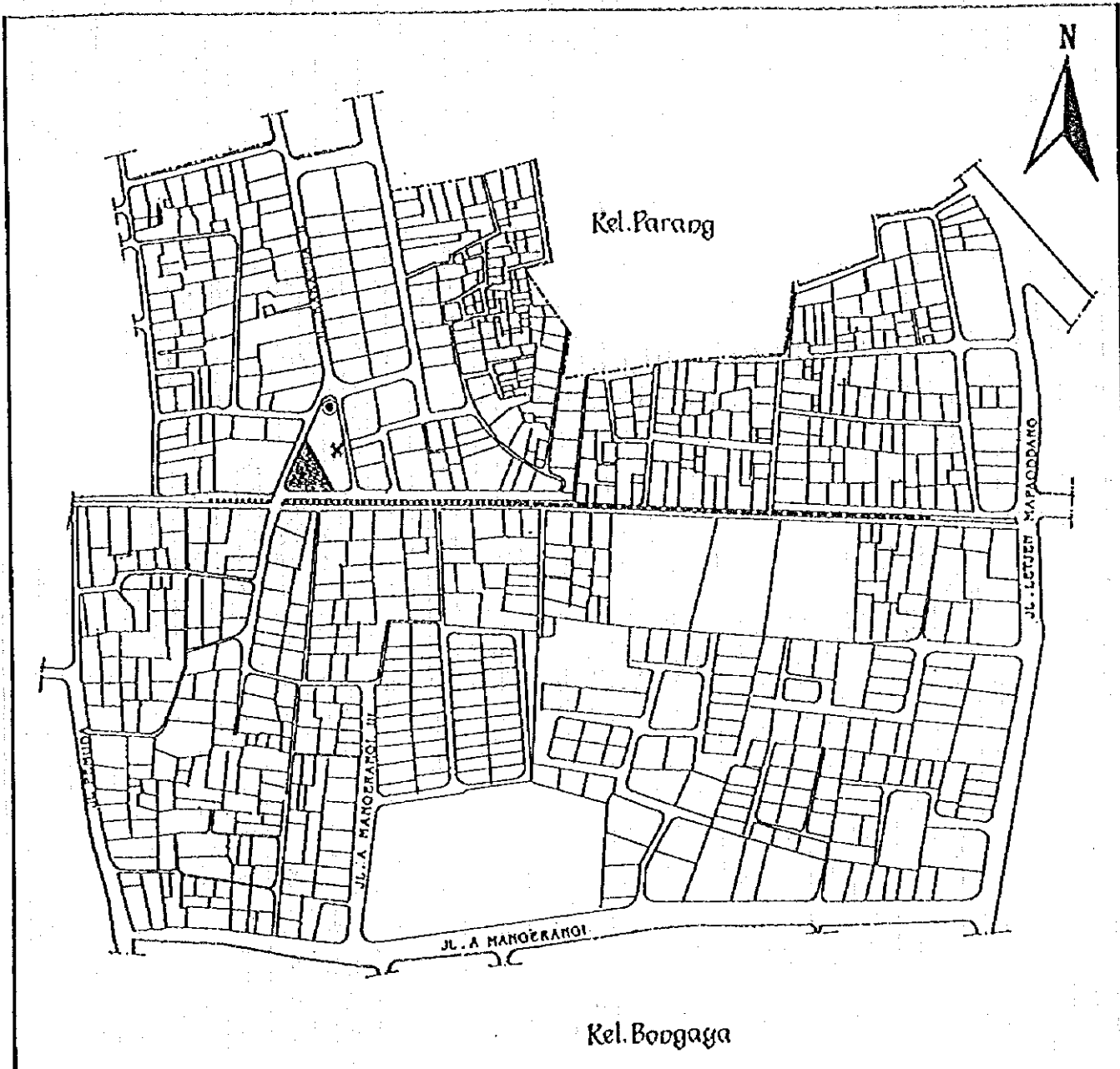







FIG. 6.65

**TAS IMPLEMENTATION MAP**  
 KEL. MAMAJANO LUAR - KEC. MAMAJANO

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE  
 MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



**LEGEND :** Site C2 - TWS Implementation Map

-  Ditch Cleansing by Community Participation ( 250 m )
-  Ditch Cleansing by Dinas Kebersihan ( 180 m )
-  Open Space Cleansing by Dinas Kebersihan / Community Participation
-  Container Rotation
-  Abolition of TPS in Open Space

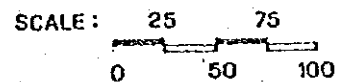
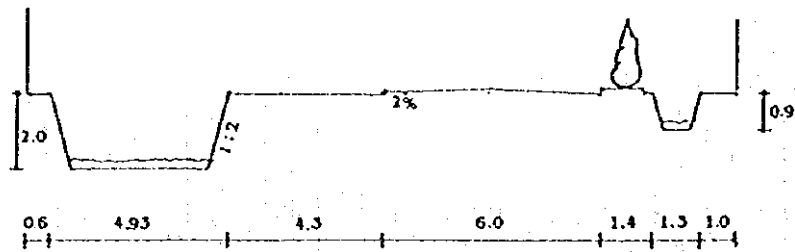


FIG. 6.66

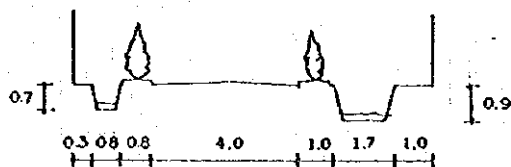
**TWS IMPLEMENTATION MAP**  
 KEL. PARANG - KEC. MAMAJANG AND KEL. BONGAYA - KEC. TAMALATE

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE  
 MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA

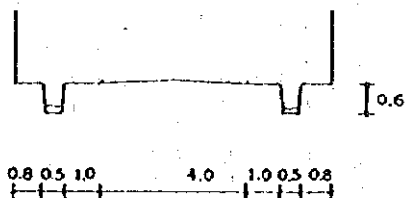




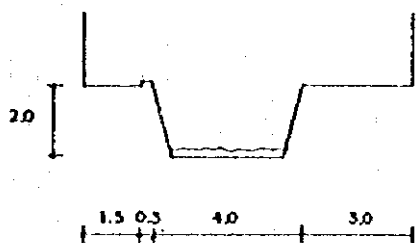
**CROSS SECTION A.A.**



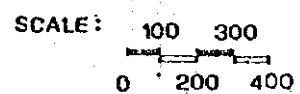
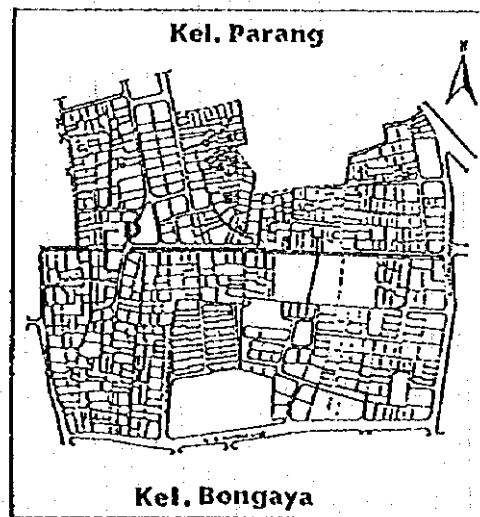
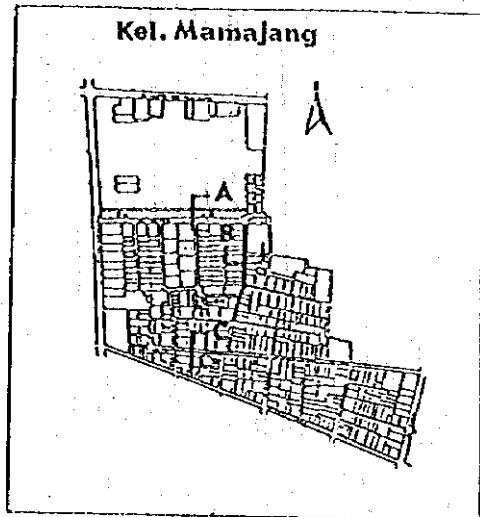
**CROSS SECTION B.B.**



**CROSS SECTION C.C.**



**CROSS SECTION D.D.**



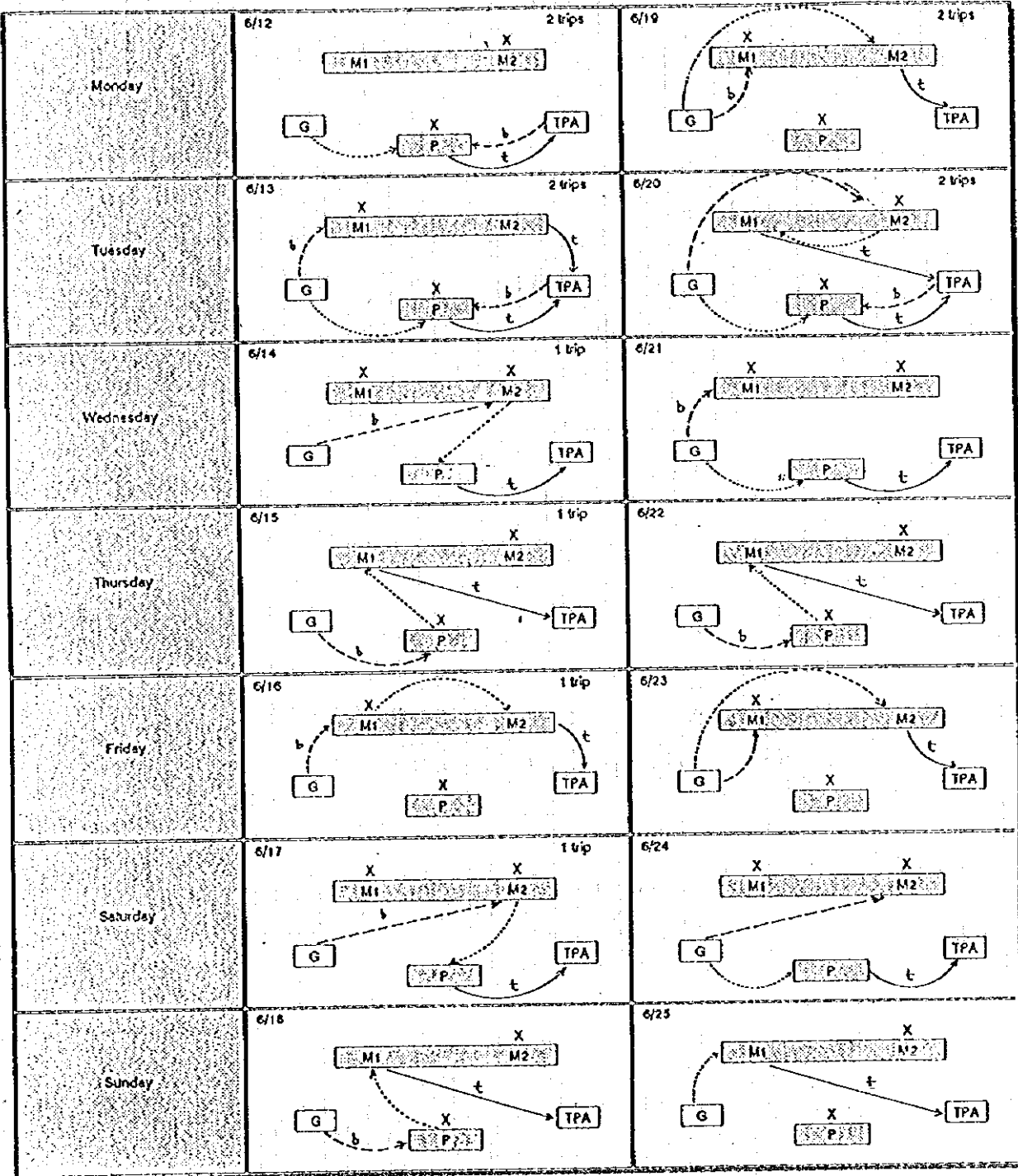
**FIG. 6.67**

**Site C - Ditch Cross Sections**

**MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA**

# CONTAINER COLLECTION SYSTEM

IN KELURAHAN PARANG & KELURAHAN MAMAJANG LUAR - KEC. MAMAJANG



Notes :

- G = Garage
- P = Parang
- M1 = Mewas close to Jalan Rahifangi
- M2 = Mewas to elementary school
- TPA = Final disposal site
- l = Container was taken
- b = Container was brought
- X = There was a container

FIG. 6.68

Site C - TAS Container Rotation System

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



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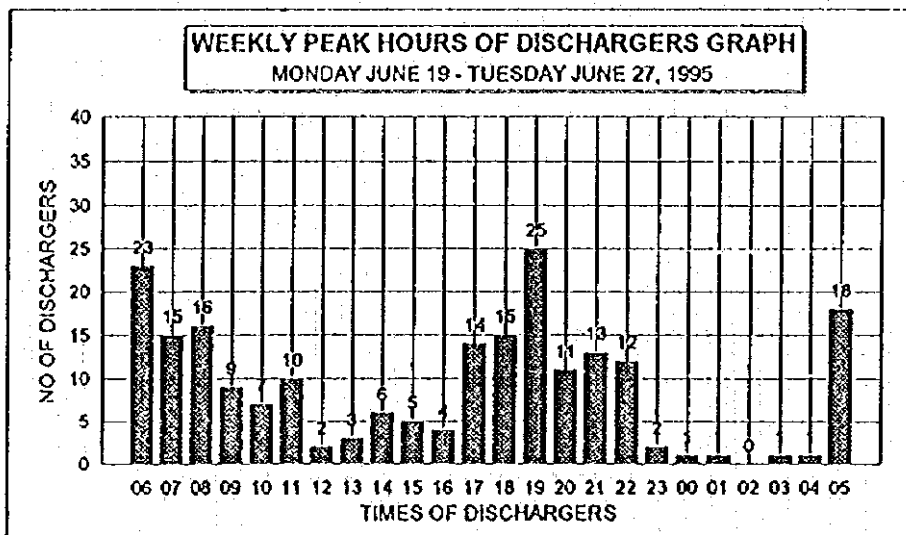
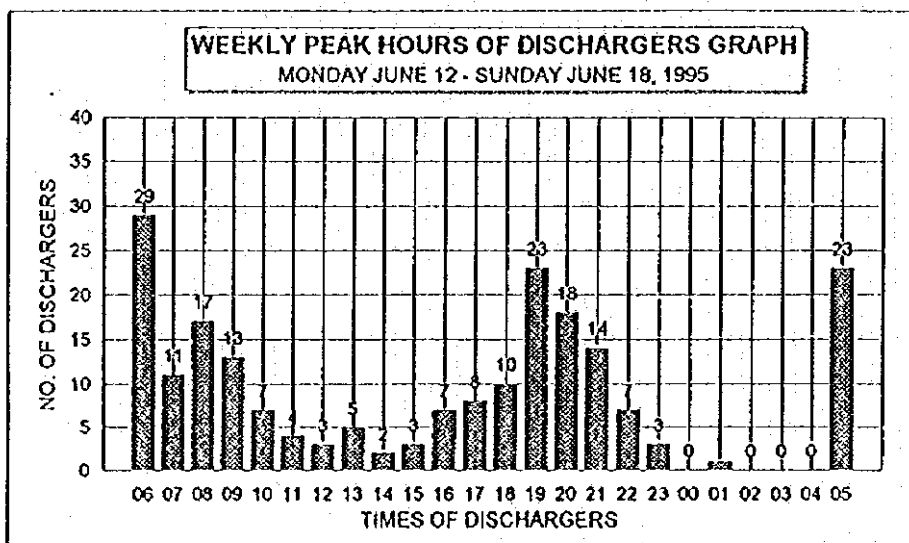
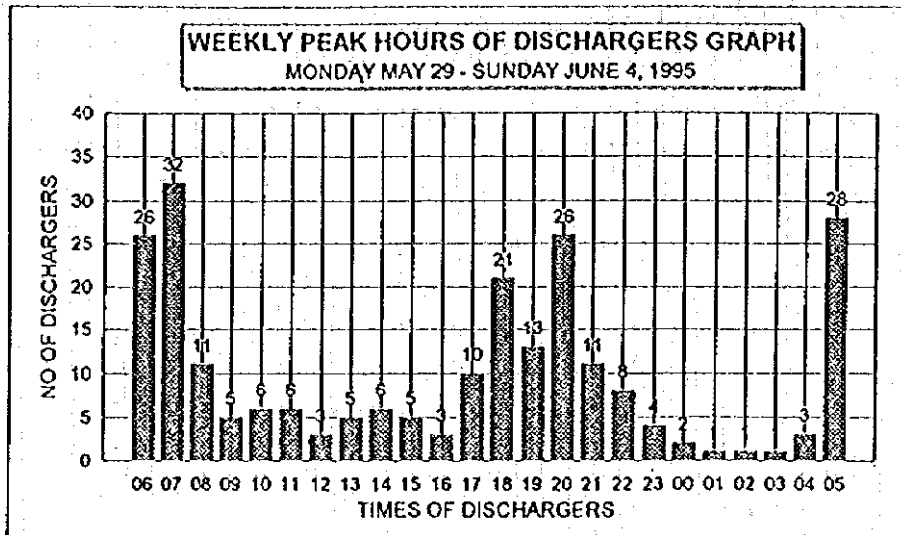


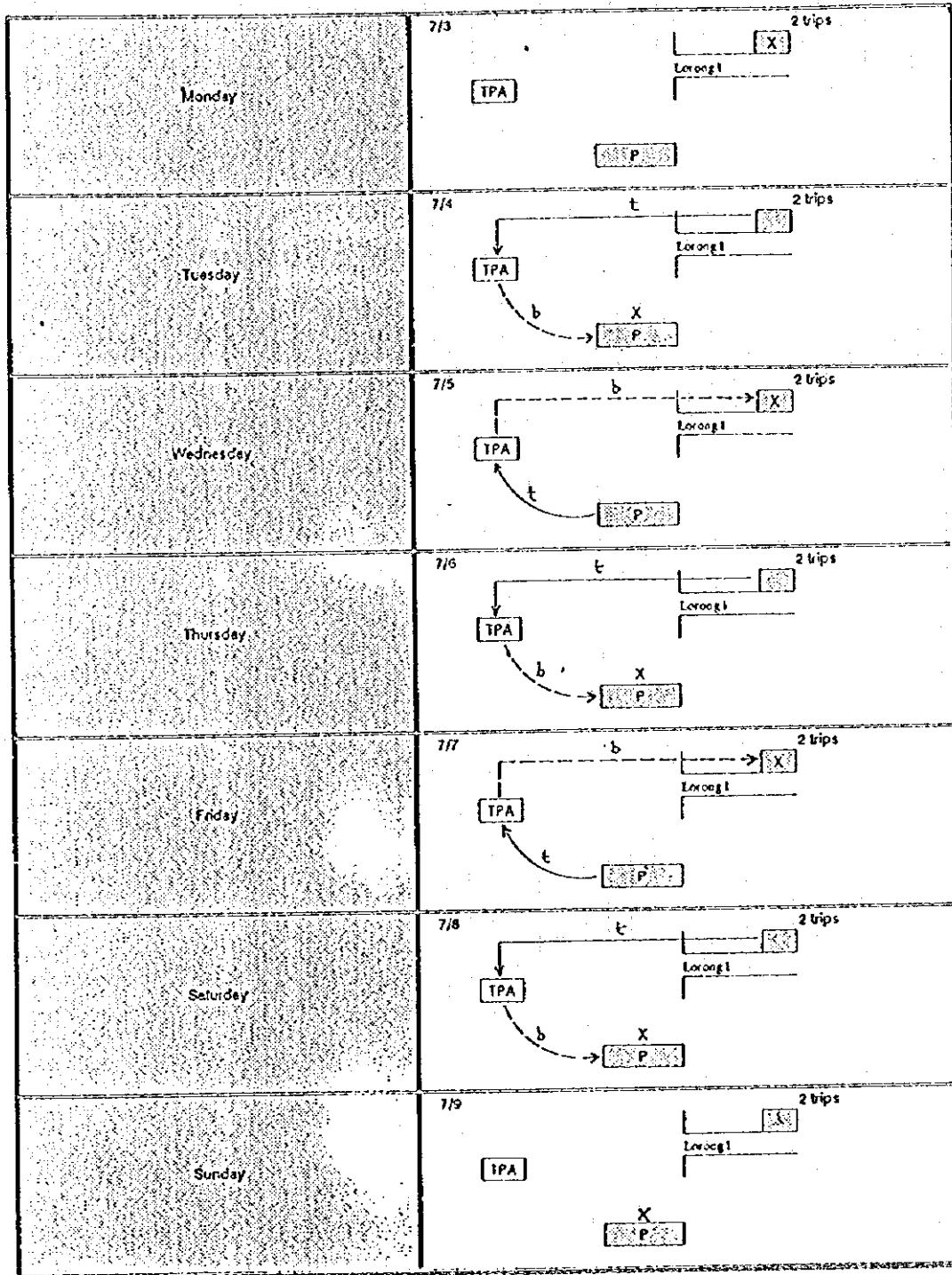
FIG. 6.69

Site C - Discharge Time

MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA

# CONTAINER COLLECTION SYSTEM

DI KELURAHAN PARANG - KEC. MAMAJANG



- Notes :
- G = Garage Parang
  - P = Garage Parang
  - TPA = Final disposal site
  - t = Container was taken
  - b = Container was brought
  - X = There was a container

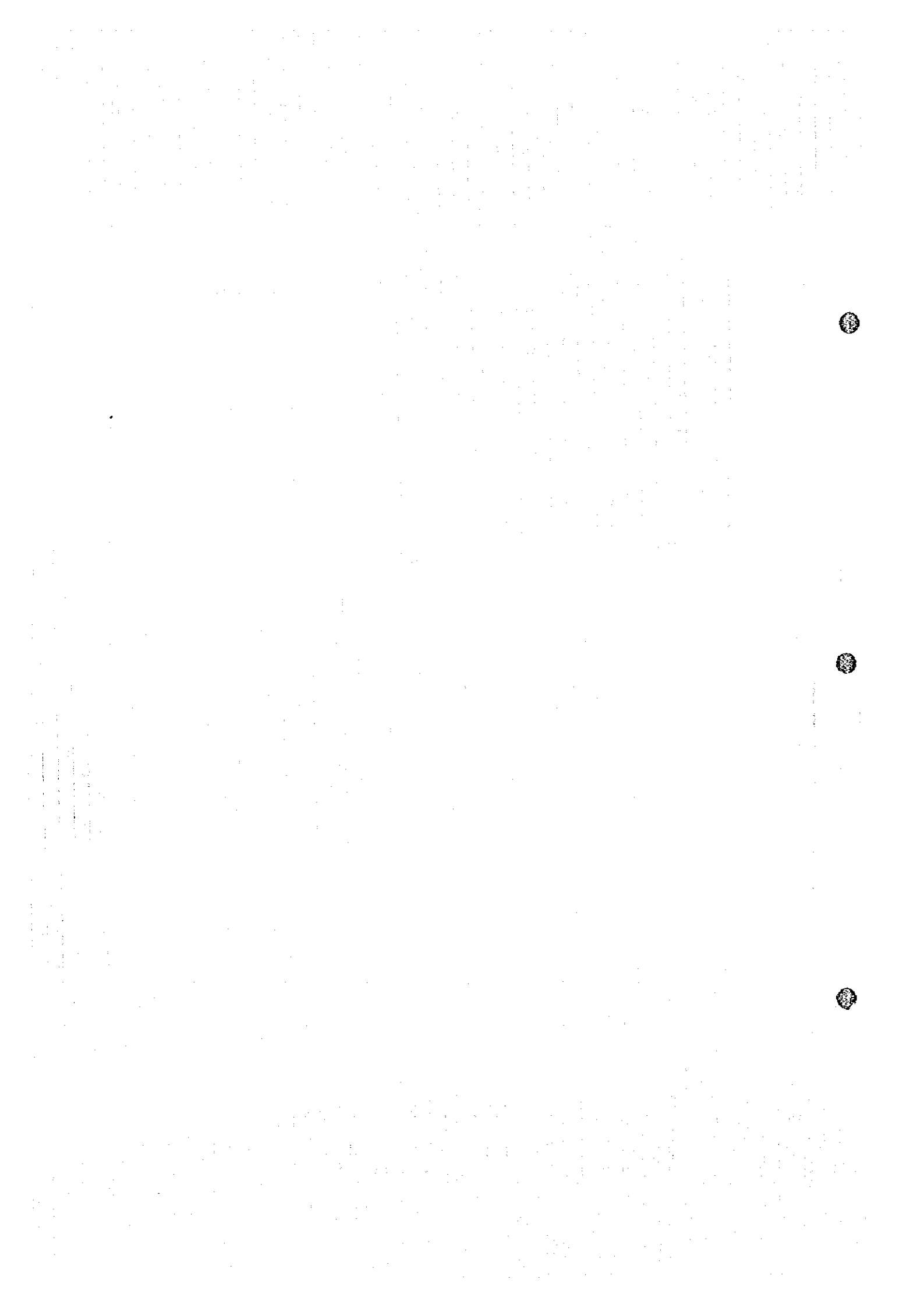
FIG. 6.70

Site C - New Container Rotation System

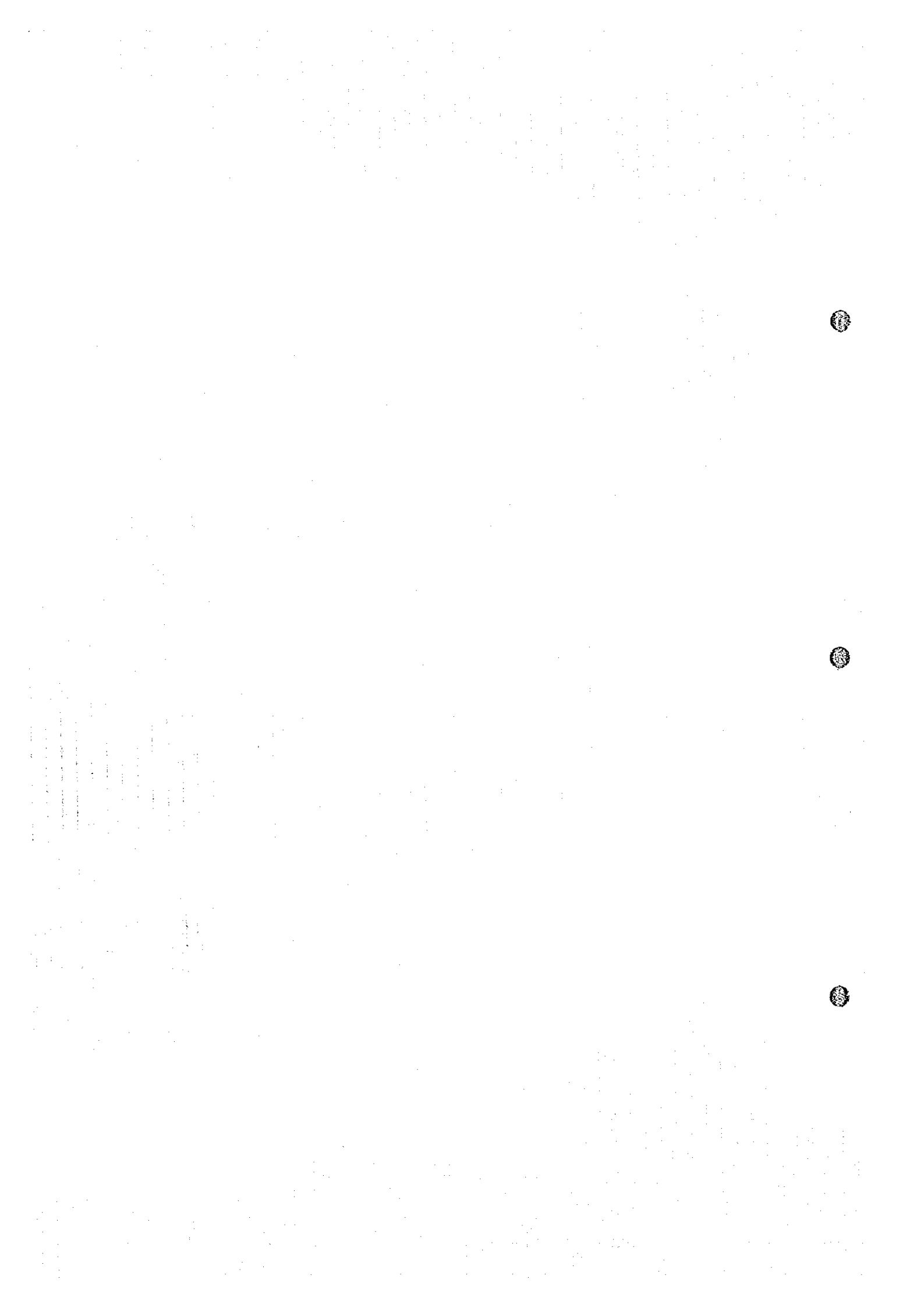
MASTER PLAN AND FEASIBILITY STUDY ON WASTEWATER AND SOLID WASTE MANAGEMENT FOR THE CITY OF UJUNG PANDANG IN THE REPUBLIC OF INDONESIA



A.D. 1995











JICA