

付 録

SCOPE OF WORK
F O R
UJUNG PANDANG AREA HIGHWAY DEVELOPMENT STUDY
I N
REPUBLIC OF INDONESIA

BETWEEN

DIRECTORATE GENERAL OF HIGHWAYS

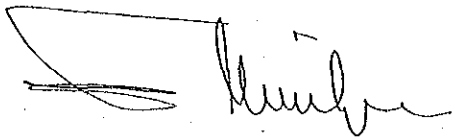
MINISTRY OF PUBLIC WORKS

A N D


JAPAN INTERNATIONAL COOPERATION AGENCY

16 JUNE, 1987

JAKARTA, INDONESIA



I. MUHAMMAD SOLECHAN
DIRECTOR OF URBAN ROAD
PLANNING,
DIRECTORATE GENERAL OF
HIGHWAYS,
MINISTRY OF PUBLIC WORKS.



Dr. KATSUTOSHI OTA
L E A D E R,
PRELIMINARY STUDY
TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY.

I. INTRODUCTION

In response to the request of the Government of the Republic of Indonesia, the Government of Japan has decided to conduct the Ujung Pandang Area Highway Development Study in the Republic of Indonesia (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

The Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Government of the Republic of Indonesia.

The present document sets forth the Scope of Work for the Study.

II. OBJECTIVE OF THE STUDY

The objective of the Study is to formulate a Master Plan for Highway Development in Ujung Pandang Area, with special emphasis on development of road network in long term and improvement of road traffic in short term, based on urban development strategies.

III. SCOPE OF THE STUDY

1. STUDY AREA

The Study Area covers the city of Ujung Pandang and its surrounding area within the radius of approximately 30Km. of Ujung Pandang central area.

2. TARGET YEAR

Target Year 2009 will be defined as the target year for long term prospect of the Study, and the year 1994 be defined as the target year for the short term.

3. STUDY ITEMS

The Study will cover the following items :

Handwritten signature and initials: a stylized signature followed by "K.O."

3-1 SOCIO - ECONOMIC SURVEY

- (a) Data collection and interview with Government Departments and concerning agencies for necessary items of the Study
- (b) Riview of urban development and land use
- (c) Formulation of development framework in the Study area.

3-2 TRAFFIC AND TRANSPORATION INVENTORY SURVEY

- (a) Home interview travel survey
- (b) Vehicle origin-destination survey
- (c) Traffic flow survey
- (d) Other traffic surveys (Public transportation)
- (e) Inventory survey of road and related facilities.

3-3 ANALYSIS OF TRAFFIC DEMAND OF FUTURE FORECAST

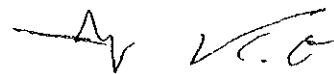
- (a) Analysis of travel behavior and traffic
- (b) Development of traffic forecasting models
- (c) forcast of future traffic demand.

3-4 PLANNING AND RECOMMENDATION

- (a) Road network development plan and implementation program
- (b) Traffic management plan
- (c) Recommendation.

IV. STUDY SCHEDULE

The whole work will be conducted in accordance with the attached tentative Study schedule.



V. R E P O R T S

JICA will prepare and submit the following reports in English to the Government of the Republic of Indonesia.

(1) INCEPTION REPORT

Fifty (50) copies at the beginning of the study in the Republic of Indonesia.

(2) INTERIM REPORT (1)

Fifty (50) copies within 6 months after the beginning of the Study.

(3) INTERIM REPORT (2)

Fifty (50) copies within 12 months after the beginning of the Study

(4) DRAFT FINAL REPORT

Fifty (50) copies within 15 months after the beginning of the Study

(5) FINAL REPORT

One hundred (100) copies within two months after the receipt of the comments on the draft Final Report from the Government of the Republic of Indonesia.

VI. UNDERTAKINGS OF THE GOVERNMENT OF THE REPUBLIC OF INDONESIA

1. To facilitate smooth conduct of the Study, the Government of the Republic of Indonesia will take necessary measures :

(1) To secure the safety of the Japanese study team

(2) To permit the members of the Japanese study team to enter, leave and sojourn in the Republic of Indonesia for the duration of their assignment therein, and exempt them from alien registration requirements and consular fees.

DW *V.C.O.*

- (3) To exempt the members of the Japanese study team from taxes, duties, fees and other charges on equipment, machinery and other materials brought into the Republic of Indonesia for the conduct of the Study.
 - (4) To exempt the members of the Japanese study team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Japanese study team for their services in connection with the implementation of the Study.
 - (5) To provide the necessary facilities to Japanese study team for the remittances as well as utilization of funds introduced into the Republic of Indonesia from Japan in connection with the implementation of the Study.
 - (6) To secure permission for entry into private properties and restricted areas in connection with field survey, according to prevailing regulations of the Government of the Republic of Indonesia.
 - (7) To make arrangements for the study team to use the data, maps and materials for analysis in Japan, subject to the approval of the Government of the Republic of Indonesia.
 - (8) To arrange medical services as needed. It's expenses will be chargeable on the the members of the Japanese study team.
2. The Government of the Republic of Indonesia shall bear claims, if any arises, against the members of the Japanese study team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or wilful misconduct on the part of the members of the Japanese study team.
 3. The Directorate General of Highways, Ministry of Public Works, shall act as counterpart agency to the Japanese study team and also as coordinating body in relation with other Governmental and non-Governmental organizations concerned for the smooth implementation of the Study.
 4. The Directorate General of Highways, Ministry of Public Works, shall provide the Japanese study team with the followings, in cooperatin with other agencies concerned;

 V.C.B.

- (1) Available data and information related to the Study
- (2) Counterpart personnel
- (3) Suitable office with necessary equipment in Jakarta and Ujung Pandang
- (4) Credentials of identification cards
- (5) Arrangement of the vehicles necessary for the implementation of the Study.

VII. UNDERTAKINGS OF JICA

For the implementation of the Study, JICA will take following measures :

1. To dispatch, at its own expense, study teams to the Republic of Indonesia.
2. To pursue technology transfer to the Indonesia counterpart personnel in the course of the Study.

VIII. CONSULTATION

JICA and the Directorate General of Highways, Ministry of Public Works shall consult with each other in respect of any matter that is not agreed upon in this document and may arise from or in connection with the Study.

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TENTATIVE STUDY SCHEDULE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
WORK IN INDONESIA																			
WORK IN JAPAN																			
REPORT PRESENTATION																			
	↑ IC/R,					↑ IT/R(1)						↑ IT/R(2)			↑ DF/R				↑ F/R

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MINUTES OF MEETINGS

O N

UJUNG PANDANG AREA HIGHWAY DEVELOPMENT STUDY

I N

REPUBLIC OF INDONESIA

BETWEEN

DIRECTORATE GENERAL OF HIGHWAYS

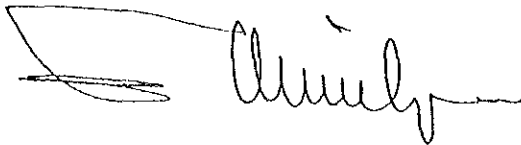
MINISTRY OF PUBLIC WORKS

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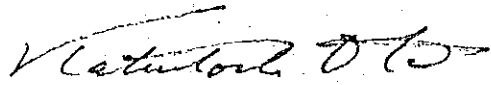
JAPAN INTERNATIONAL COOPERATION AGENCY

June 16, 1987

JAKARTA, INDONESIA



Ir. MUHAMMAD SOLECHAN,
DIRECTOR OF URBAN ROAD
PLANNING,
DIRECTORATE GENERAL OF HIGHWAYS,
MINISTRY OF PUBLIC WORKS



Dr. KATSUTOSHI OTA,
LEADER,
PRELIMINARY STUDY TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY

MINUTES OF MEETINGS

The Preliminary Study Team, headed by Dr. Katsutoshi Ota and organized by JICA, visited the Republic of Indonesia for the purpose of discussion on the Scope of Work for the Ujung Pandang Area Highway Development Study from 8 June to 17 June, 1987. The Team had a series of discussions for exchanging the views and opinions as well as conducted a field survey in the area of Ujung Pandang, South Sulawesi Province in the Republic of Indonesia.

The Attendance List of the Meetings is attached hereto.

As the result of the above, the both sides have confirmed the following points :

1. The two sides agreed that the Study for formulating the Master Plan should be started as early as possible, in accordance with the Scope of Work which has been duly signed on 16th June, 1987.
2. The Study Area, which has been stipulated in the Scope of Work, has included the related areas of the Kabupaten Maros, Gowa, and Takalar. The Study items would cover the plan for the road network mainly in the Kotamadya Ujung Pandang and the major arterial roads which would connect with the centers of the Kabupaten.
3. The Study shall be carried out under the supervision of a Steering Committee consisting of representation of the Indonesian authorities concerned.

(1) The Director General of Highways (Bina Marga), Ministry of Public Works, shall be responsible for chairing the committee.



(2) The participation shall include, among others, the representatives from the following government bodies :

- a) Directorate General of Human Settlement, Ministry of Public Works (Cipta Karya)
- b) Directorate General of Land Transport, Ministry of Communication (Perhubungan Darat)
- c) Directorate General of Regional Development, Ministry of Home Affairs (Pembangunan Daerah)
- d) National Development Planning Board (BAPPENAS)
- e) Municipality of Ujung Pandang (Walikota)
- f) Regional Development Planning Board (BAPPEDA Tk. I)
- g) Provincial Public Works (Kakanwil)
- h) Local Development Planning Board (BAPPEDA Tk. II)
- i) Regional Road Betterment Office (R.B.O.)

4. In order to secure the effective and efficient implementation of the study, the provision of the Indonesian counterparts are crucially important, especially for the liaison function in the central level in Jakarta as well as for the actual conduct in the Study area.

- (1) The Chief of Sub-Directorate of Eastern Region, shall perform the role of the Project Manager of Indonesian side for the liaison function at the central level.
- (2) The Chief of the Regional Road Betterment Office (RBO) in the Ujung Pandang Area shall perform the role of the Deputy Project Manager of Indonesian side for the actual implementation of the Study at the site in close collaboration with the Indonesian Authorities concerned.
- (3) The counterpart personal at the Study area shall be provided in accordance with the Terms of Reference submitted by the Indonesian side. The counterparts shall be competent in terms of the field speciality as well as of the English Proficiency.



5. The office for the Study shall be provided in the Directorate General of Highways in Jakarta for the liaison function with the basic office furnitures and telephone. The office for the Study site shall be provided in the Municipality of Ujung Pandang with the space of about 300 m² together with the basic furnitures and telephone.
6. The Indonesian side proposed that the counterpart training shall be conducted in Japan. The Japanese side expressed that 1 (one) seat has been secured for this Study in the Japanese fiscal year of 1987/88 and the request for additional training would be conveyed to JICA Headquarter in Tokyo.

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ATTENDANCE LIST

JAPANESE SIDE

Preliminary Study Team Leader	Dr. Katsutoshi Ota Mr. Yoshimori Mizumoto Mr. Hiroshi Yamano Mr. Akiyoshi Shimojo Mr. Takeshi Nakano
JICA Indonesia Office	Mr. Norio Matsuda

INDONESIAN SIDE

Ministry of Public Works	Ir. Suryatim Sastronijoyo Ir. Ruslan Diwiryo Ir. Muhammad Solechan Ir. Wijoto Wijono Ir. Sutrisno Ruslan Ir. Muksin Ir. Arief Budiartono Ir. Takashi Satake
Ujung Pandang	Mr. Jancy Raib Mr. M. Simatupang Mr. Sayadi Mr. Benny As Mr. R. M. Sirait Mr. Achmad Pateha Mr. Ilyas Subekti Mr. Anis Angkawijaya Mr. Karel Ks Mr. Abdullah Saud Mr. Hamzah Hasan Mr. Najamuddin Jakub Mr. Yan Patibang Mr. Syuryadi Jusuf Mr. Zaini Badawing Ir. Osman Mungkasa Ir. Sukrojono Ir. Bambang Heryanyo.

インドネシア国ウジェンパンダ地域道路網整備計画調査対処方針

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項 目	対 処 方 針	備 考
<p>1. 調査の目的 (Objective of the Study) について 先方 " Technical Assistance Proposal " 及び T/R には、 " long-Term highway Dev. Plan " " short- term plan for improvement of road traffic " " Transportplan " " transportation policy " " long-term / short term urban road dev Plan " 等用語に必ずしも統一性がなく意味不明の点がある。</p>	<p>1. (1) S/W (案) では " Master Plan for Highway Dev. in U P.A with special emphasis on develop- ment of road network in longterm prospect and improvement of road Tra- ffic in shortterm " と整理した。 (2) 先方にその意味するところを質問すること とするも、基本的には、上位計画や政策は 見直しはするもそれ自体の策定を調査目的 としない。 (3) どの範囲まで所与とし、どの範囲について 工夫等可能かにつき確認する。</p>	<p>長期的には道路網整備を短 期的には道路・施設改良及 び交通管理の改善を基本と する。</p>
<p>2. 調査対象地域について " Ujung Pandang and Kab. Maros and Gowa " の 表現があり、1市2県を含む模様であるが現在の地 図では確認できない。</p>	<p>2. S/W (案) では、Maros, Gowa の県の地名 を入れていないが、先方に地図も含め確認のう え必要に応じ地名を表示する。 県境等については必要に応じ M/M に地図を添 附して確認する。</p>	
<p>3. 土地利用計画について先方 T/R では 東インドネシアの開発拠点としてのウジェンパンダ 地域の開発可能性と方向の評価及び定義づけを行 うとしている。</p>	<p>3. S/W (案) では、 " Review of urban develop ment and land use concepts " と整理した。 上記 1 (2) の方針で対処する。</p>	<p>1984年作成の土地利用 計画がある模様。</p>

項	目	対 処 方 針	備 考
4.	交通調査について先方 T/R では O D 調査を行うとしている。	4. S/W(案)では"Home Interview Survey (O-D Survey)"として整理した。低い乗用車保有率から見ても、PT Survey が必要と考えられ、現地に調査団が判断して対処する。但し、規模・項目等については、全体調査期間、今後の活用可能範囲等考慮して決定する。	1983年実施した路側 O D がある模様。
5.	Master Plan (最終成果品の範囲)について上記1の点もあり必ずしも明確となっていない。	5.(1) S/W(案)では、 (a) Road network dev. plan and implementation program (b) Traffic management plan (2) (a)については長期計画として把握、I Pには、Projectsの確認及びM/Pレベルでの技術設計、費用計算、経済分析及び建設スケジュール等を内容とする。 また短期緊急 Projects についても必要事項追加する。 (b)については、制度面を含む交通管理計画とする。 (c)については、(a)(b)に含まれない提言(組織や計画、実施、評価面等)を内容とする。	Pre F/S, F/SについてはM/P完成後の調査として整理する。
6.	地形図について	6. 有無、作成範囲、作成年、作成方法、縮尺等確認する。新たな地形図作成は行わない。	インドネシア国地形図問題も未解決のところ、既存の地形図にて実施できる範囲の調査とする。
7.	Steering Committee の設置について	7. 主要関係機関の確認のうえ、中央と地方との連絡も含め設置することとし、必要事項M/MF確認する。	

UJUNG PANDANG AREA HIGHWAY DEVELOPMENT STUDY

QUESTIONNAIRE

I. Development Planning

1. National and Regional Level

1) Development goals, concepts and strategies for Ujung Pandang Area and South Sulawesi Province

- a) _____ stipulated in Repelita IV (1985-'89)
- b) _____ anticipated in Repelita V (1989-'94) (if available)

2) Development goals, concept and strategies for U.P.A and S.S.P. stipulated in current regional development plan and anticipated in next plan (city and provincial levels by Bappeda)

3) Source and magnitude for implementation

4) Outline and targets in land use planning and /or strategies (past, current and future)

5) Important projects implemented in past and /or to be implemented in foreseeable future

2. Transportation sector

- 1) Outline and actual progress of Past Highway Plans in U.P.A. and S.S.P.
- 2) Outline and principal items stipulated in current Highway plans
- 3) Major issue areas to be solved in next Highway plan and related programs.
- 4) Financial Source and magnitude for implementation
- 5) Targets and problems in development of road network, improvement of road traffic and transportation management.

II. Socio Economic Aspects

1. Demography

- 1) Time-series statistics of U.P.A
(including city and kab. Maros and Gowa)
- 2) Social increase and Natural increase
- 3) Composition ratio of employees by industry

2. Economy

- 1) Time-series statistics of GDP in U.P.A. by industry
- 2) Time-series statistics of investment in U.P.A. by industry

3. Necessary attention on cultural aspect in U.P.A.

III. Transportation

1. Road Transport

1) Road Inventory Data

Length of roads in U.P.A. by classification of arterial, collector, and local grouping: actual and planned

2) Organizations authority and responsibility of road planning, construction and maintenance

3) Level of development of roads

- a) Pavement, pavement rehaviritation, service and maintenance
- b) Saturation ratio, queue length and stopped delay

4) Data of traffic counts and O-D survey conducted and traffic volume

5) Time -series statistics of car owner ship

- a) classification by use
- b) classification by kind
- c) classification by income
- d) Nation, Province, U.P.A

6) Data of road traffic accidents

7) Facilities related road traffic

2. Public Transportation

1) Traffic volume in time series

2) Level of service by Bus, Taxi Becha and etc.

3. Port and Air-port Facilities

1) Dealing volume by commodity and by external and internal trade

2) Passengers volume by group

3) Phisical facilitis and road access

4. Budget

- 1) Road Transportation
- 2) Public Transportation
- 3) Sea-freight Transportation
- 4) Air-freight Transportation

IV. Other information

1) Maps

- a) Topographical maps
(Scale, coverage, year, mapping - method, obtainability, etc)
- b) Land use maps
- c) Land classification maps

2) Reports

related plans, programs and projects

3) Others

DRAFT

SCOPE OF WORK
FOR
UJUNG PANDANG AREA HIGHWAY DEVELOPMENT STUDY
IN
REPUBLIC OF INDONESIA

BETWEEN

DIRECTORATE GENERAL OF HIGHWAYS
MINISTRY OF PUBLIC WORKS
AND

JAPAN INTERNATIONAL COOPERATION AGENCY

DIRECTORATE GENERAL OF HIGHWAYS
MINISTRY OF PUBLIC WORKS

Dr. KATSUTOHI OTA
LEADER, PRELIMINARY STUDY TEAM,
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III. SCOPE OF THE STUDY

1. Study Area

The Study area covers the city of Ujung Pandang and its surrounding area within the radius of approximately 30km of Ujung Pandang central area.

2. Target year

The year 2005 will be defined as the target year for long term prospect of the Study, and the year 1995 be defined as the target year for short term.

3. Study Items

The Study will cover the following items:

3-1. Socio-Economic Survey

- (a) Data collection and interview with Government Departments and concerning agencies for necessary items of the Study.
- (b) Review of urban development and land use.
- (c) Formulation of development framework in the Study area.

3-2. Traffic and Inventory Survey

- (a) Home interview survey (Origin-destination survey) .
- (b) Traffic count survey.
- (c) Other traffic surveys (public transportation and truck transportation) .
- (d) Inventory survey of road and related facilities .

3-3. Analysis of Traffic Demand and Future Forecast

- (a) Analysis of travel behavior.
- (b) Development of traffic forecasting models.
- (c) Forecast of future traffic demand.

3-4. Planning and Recommendation

- (a) Road network development plan and implementation program.
- (b) Traffic management plan.
- (c) Recommendation.

IV. STUDY SCHEDULE

The whole work will be conducted in accordance with the attached tentative Study schedule.

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Thirty(30) copies within 15 months after the beginning of the study

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 - (1) available data and information related to the study.
 - (2) counterpart personnel.

- (3) suitable office with necessary equipment in Jakarta and Ujung Pandang.
- (4) credentials of identification cards.
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XIII. CONSULTATION

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WORK IN JAPAN																			
REPORT PRESENTATION																			
	↑	IC/R				↑	IT/R(1)					↑	IT/R(2)		↑	DF/R		↑	F/R

資 料 類

1. Kotaradya Ujung Pandan Dalam Argke 1 9 8 5 (ウジュンパンダン市統計書)
2. Sulawesi Selatan Dalam Argke 1 9 8 5 (南スラウィシ州統計書)
3. Revcama Pewangunan Liha Tahium Ke Eupat 1 9 8 4 / 5 ~ 1 9 8 8 / 9
4. Evaluasi Pelakeanaan Pelita III 1 9 7 9 / 8 0 ~ 1 9 8 3 / 4
5. Petikan Notulen Rapat-Rapat tentang Tahun Anggaran 1 9 8 7 / 8
6. Rencana Umum Pewfanganan Tahan Ke Tige Repelita III Kotanadya Paereh
TK. III U.P. 1 9 8 6 / 7
7. Reucana Lnduk Kata Kotaualya U.P. (Master Plan U.P. 1 9 8 4)
8. 図面 (道路ネットワーク、着色着焼 1 / 1 0, 0 0 0)
9. 道路台張 (BNA MARGA 資料)
10. ウジュンパンダン市 PU. 道路セクター組織図
11. 道路延長データ
12. ジェネベラン川関連地図資料
13. 1 / 5 0, 0 0 0 地図データ
14. ウジュンパンダン市予算教書
15. DATA FACILITIES RELATED ROAD TRAFFIC AND PUBLIC TRANSPORTATION 1 9 8 6 / 1 9 8 7
16. Inventarisasi Wilayah LLAJR-I Kodya Ujung pandang
17. LALU LINTAS KAPAL DAN PERAHU DALAM PELITA III DAN IV
(TM. 1 9 8 4 ~ 1 9 8 7)
18. LINK SELECTION SECAL PROGRAM

地 図 類

1. ウジュンパンダン市地形図 (1 / 1 0, 0 0 0)
2. ウジュンパンダン市行政区界図 (1 / 2 0, 0 0 0)
1 9 8 6 年 1 0 月 ウジュンパンダン市土地局作成
3. ウジュンパンダン市土地利用図 (1 / 2 0, 0 0 0)
1 9 8 6 年 1 0 月 ウジュンパンダン市土地局作成
4. ウジュンパンダン市道路網、重要施設図 (1 / 2 0, 0 0 0)
1 9 8 6 年 1 0 月、ウジュンパンダン市土地局作成
5. 道路計画図 (1 / 2 0, 0 0 0)
BAPPEDA TK II 作成
6. 航空写真白黒モザイク (1 / 5, 5 0 0)
1 9 8 5 年撮影 (撮影ルート図あり)
7. 地形図 (1 / 5 0, 0 0 0)
1 9 6 2 年 米軍作成 (全国あり)

ウジュパندان市政区分図

ADMINISTRASI

KOTAMADYA UJUNGPANDANG

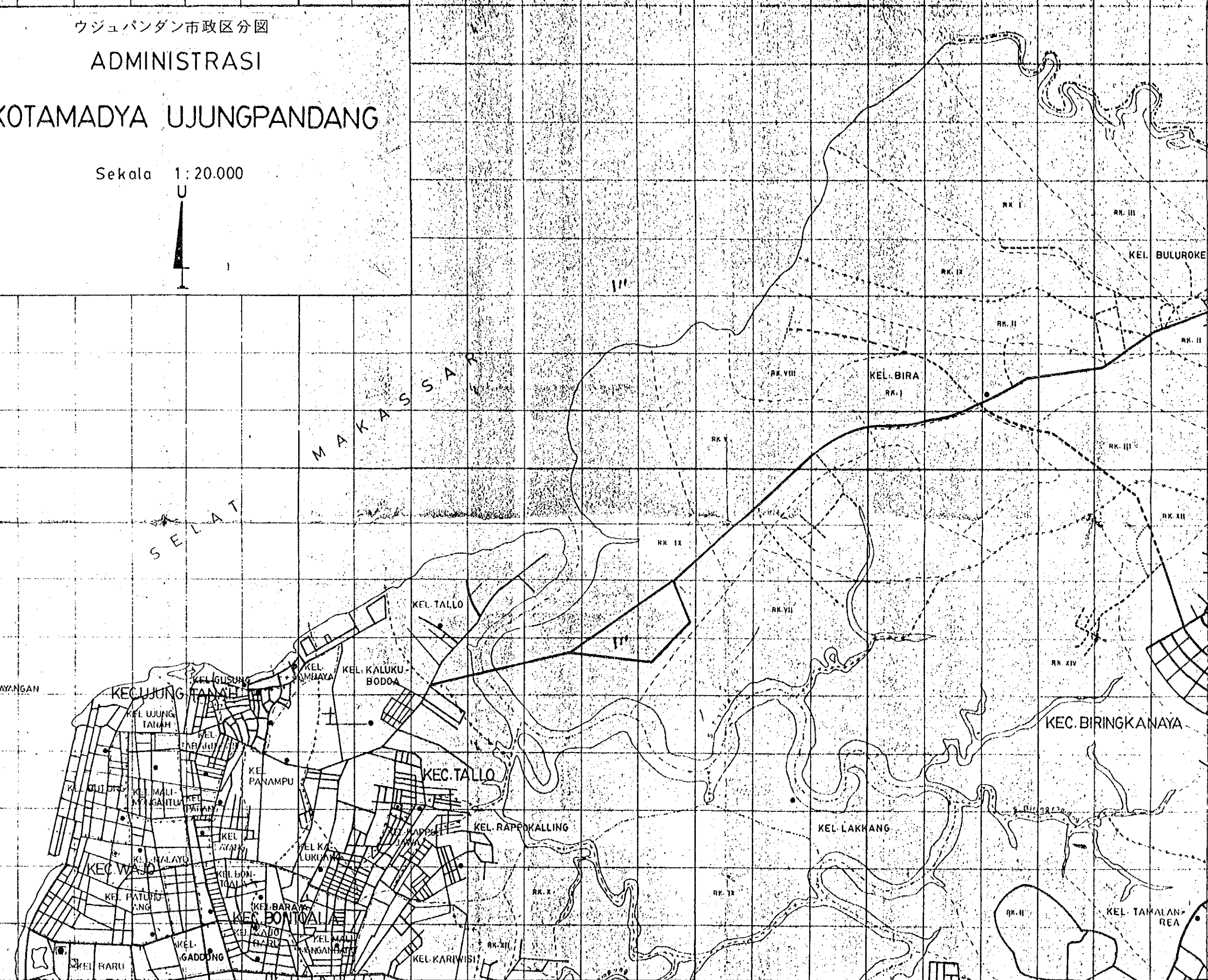
Sekala 1 : 20.000



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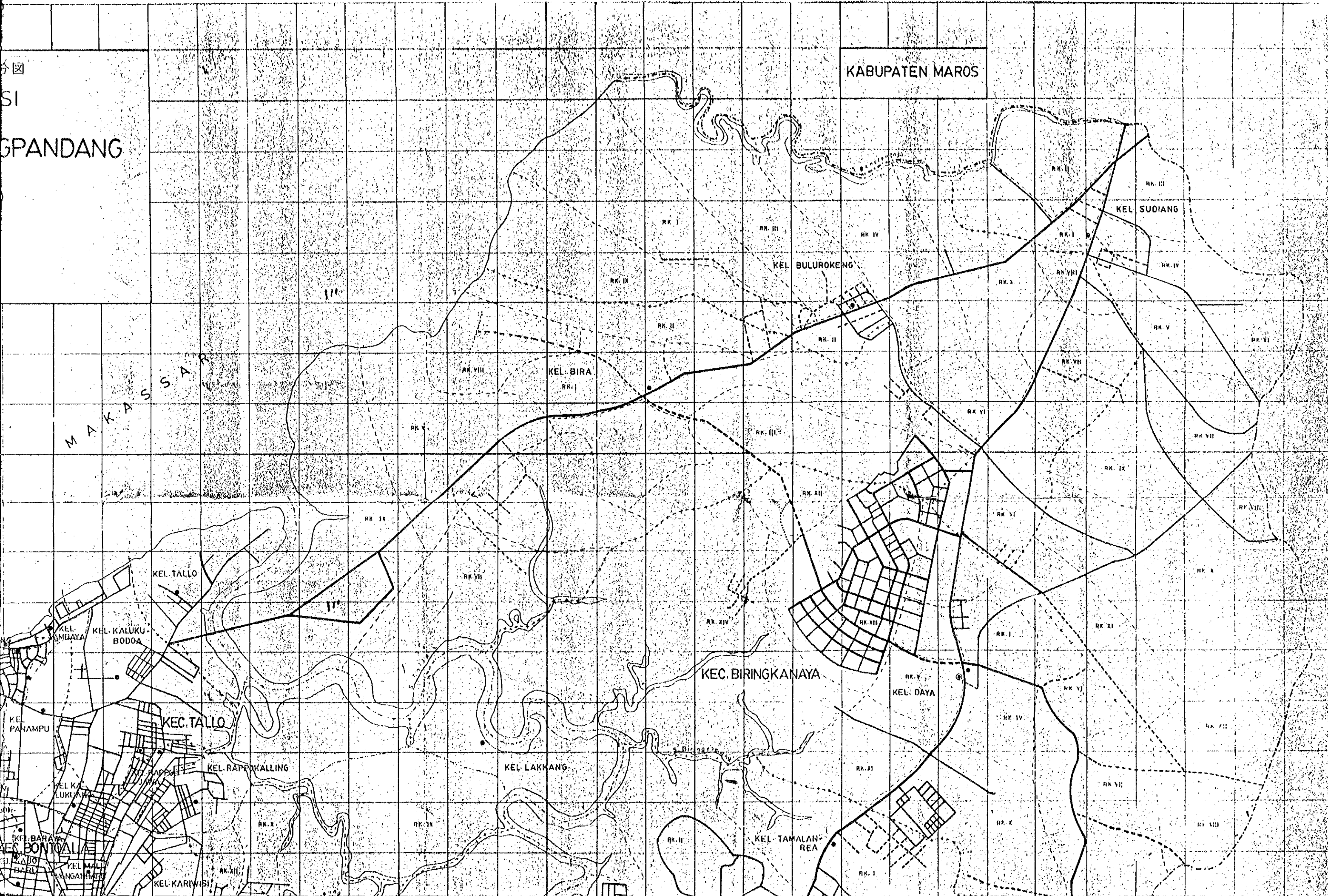
SELAT
M A K A S S A R

P. KAYANGAN



P. LAE-LAE

KABUPATEN MAROS



M A K A S S A R

KEL. PANAMPU
KEL. BARAWA
KEL. BONTOLIA
KEL. MALU
KEL. MANGAN
KEL. KARIWISI
KEL. RAPPKALLING
KEL. RAPPETI
KEL. TALLO
KEL. KALUKU-BODDA
KEL. KAMBAYA

KEC. BIRINGKANAYA

KEL. DAYA

KEC. LAKHANG

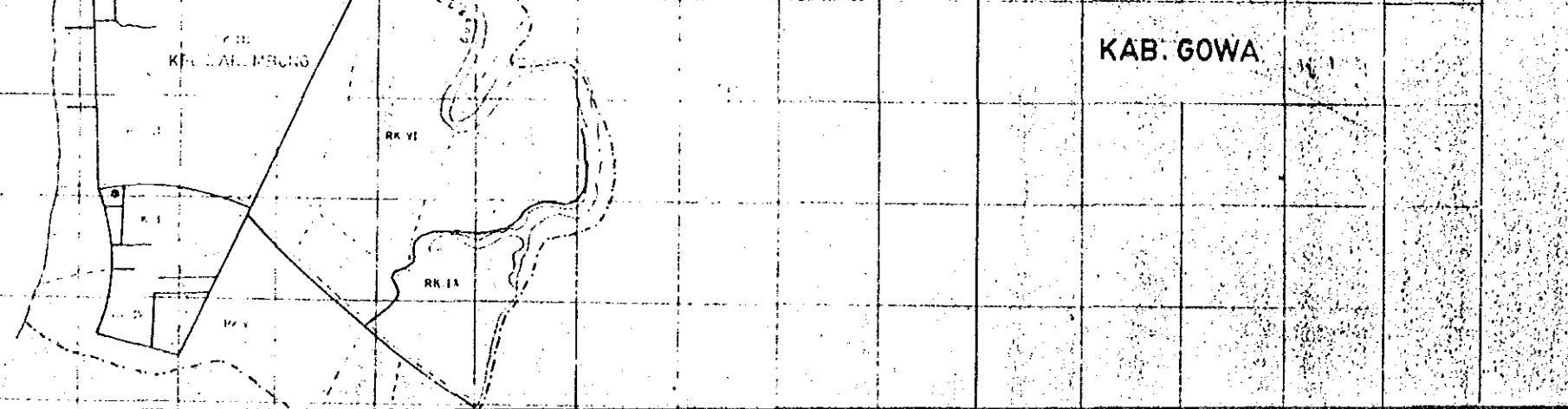
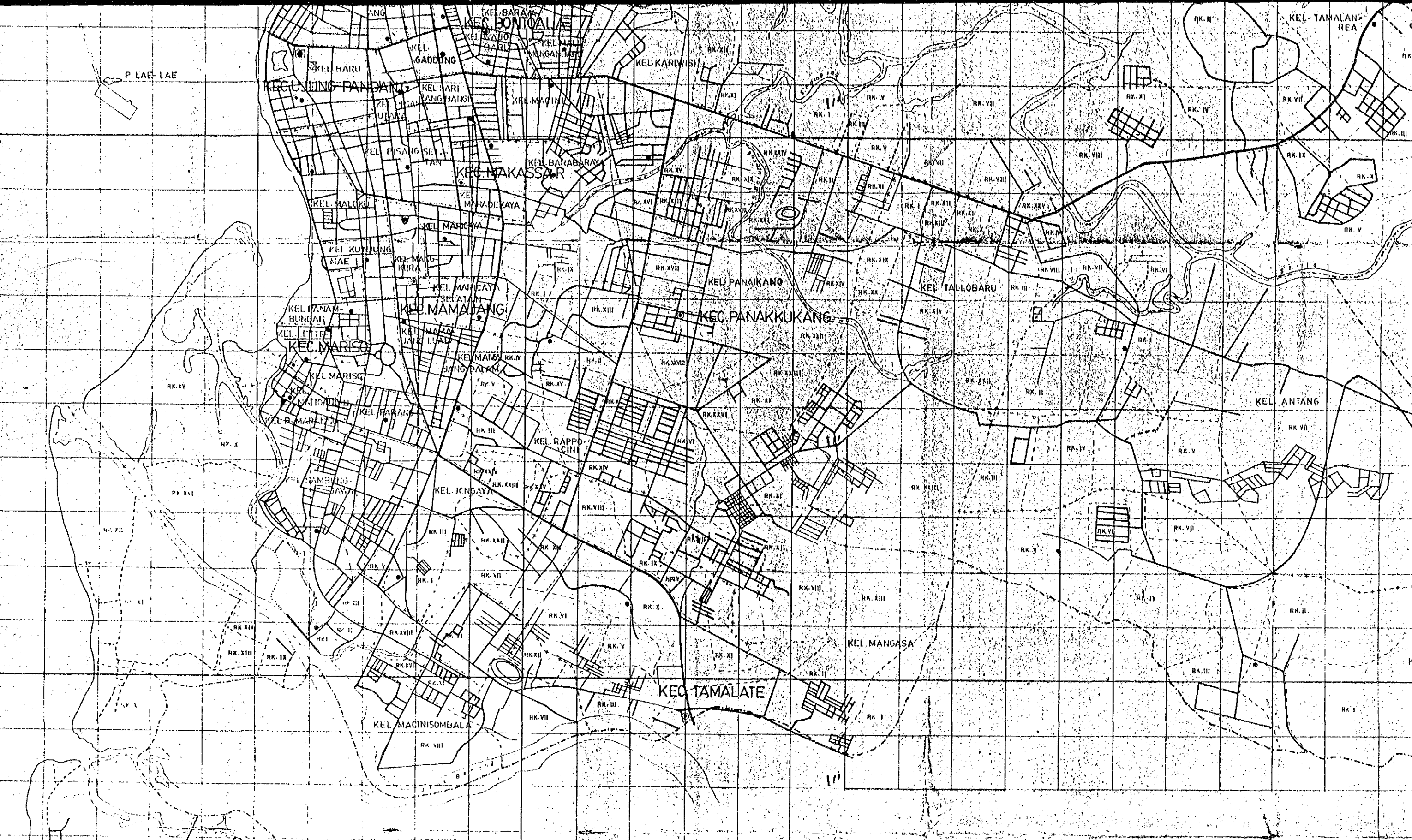
KEL. TAMALAN-REA

KEC. SUDIANG

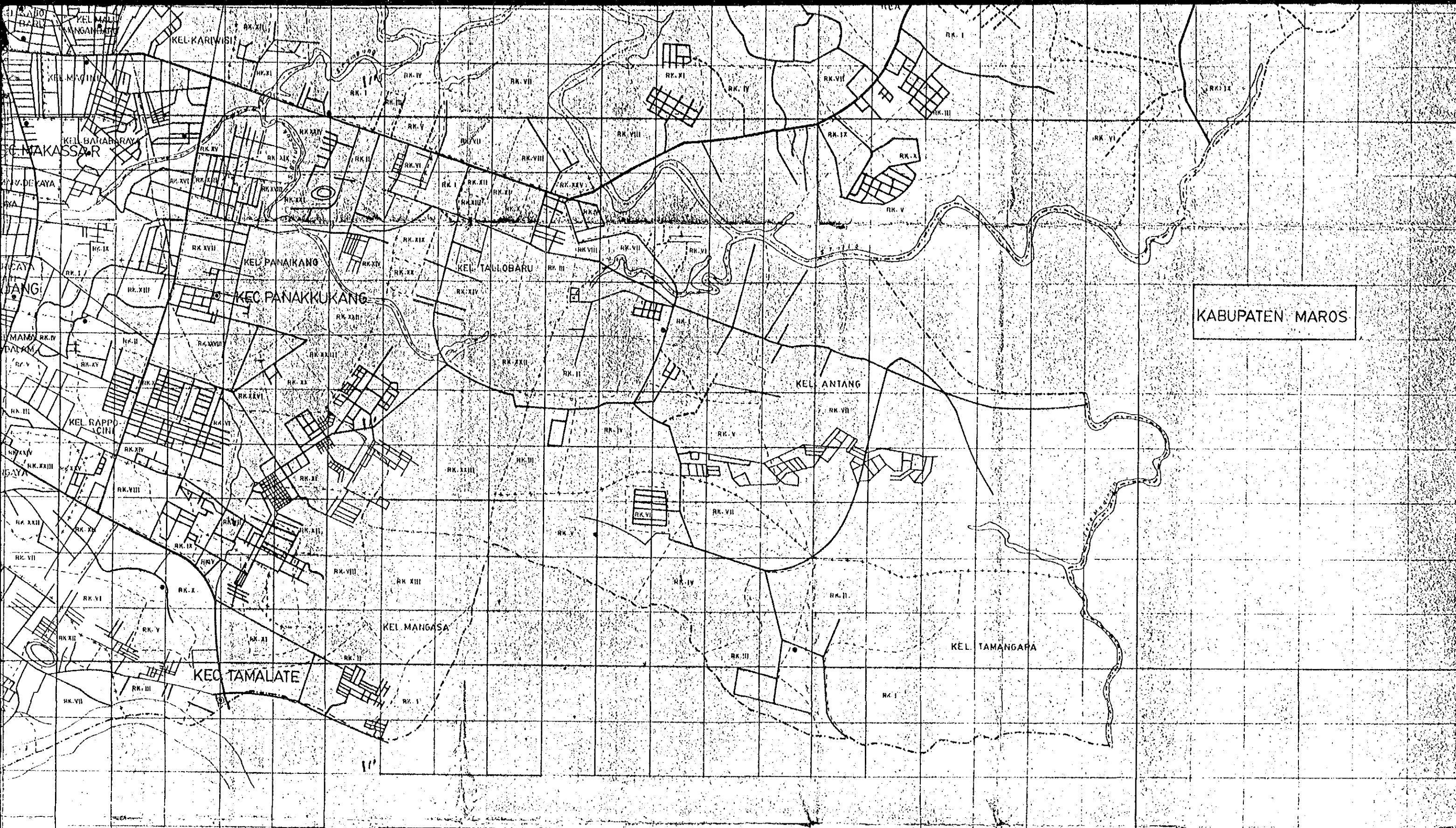
KEC. BULUROKENG

KEC. BIRA

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PULAU-PULAU YANG TERMASUK KOTA Madya Ujung Pandang 市所属の島			
P. Langkas	P. Lumu	P. Badi	P. Pajenekeang
			P. Barongkeke
			P. Barongcardi
			P. Barongluene



KABUPATEN MAROS

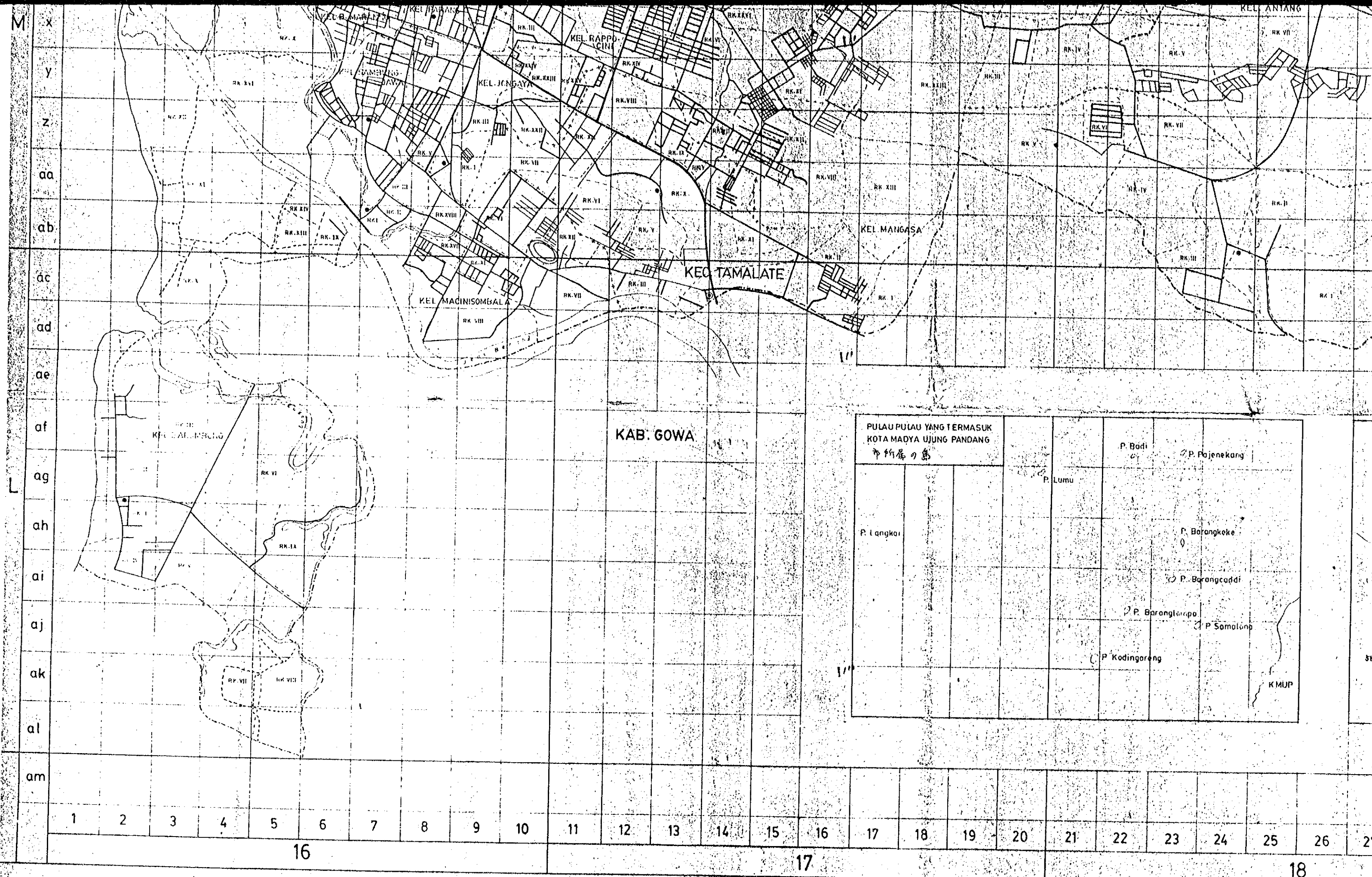
KAB. GOWA

PULAU PULAU YANG TERMASUK
KOTA MADYA UJUNG PANDANG
市所属の島

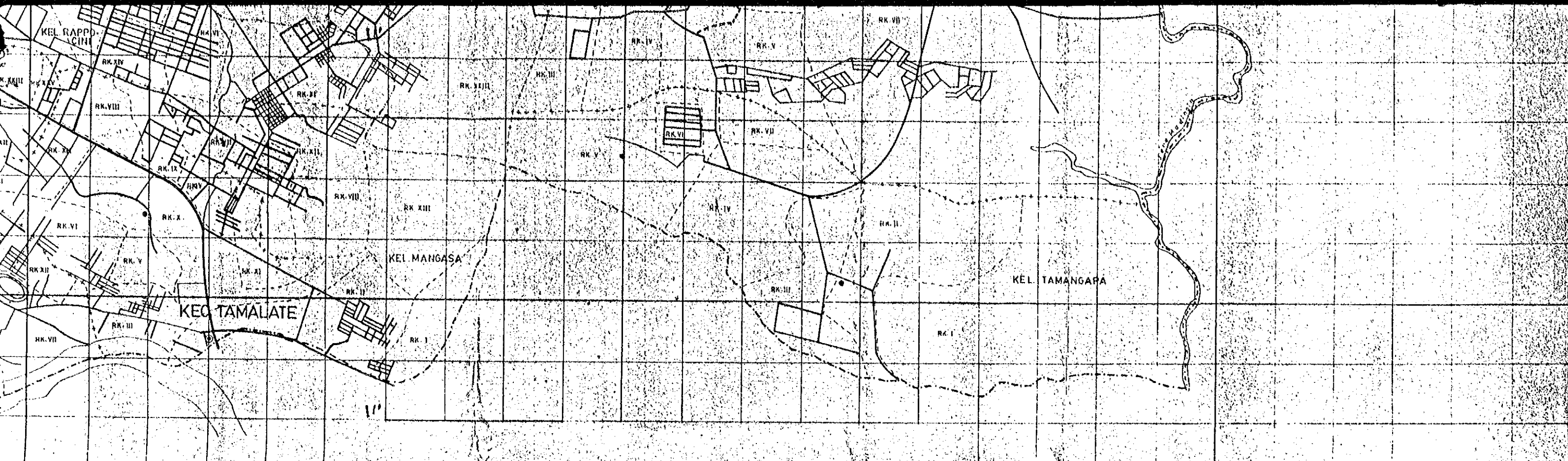
- P. Badi
- P. Lumu
- P. Langkari
- P. Pajeneke
- P. Barangkeke
- P. Barangcaddi
- P. Baranglampo
- P. Somalene

凡例
KETERANGAN

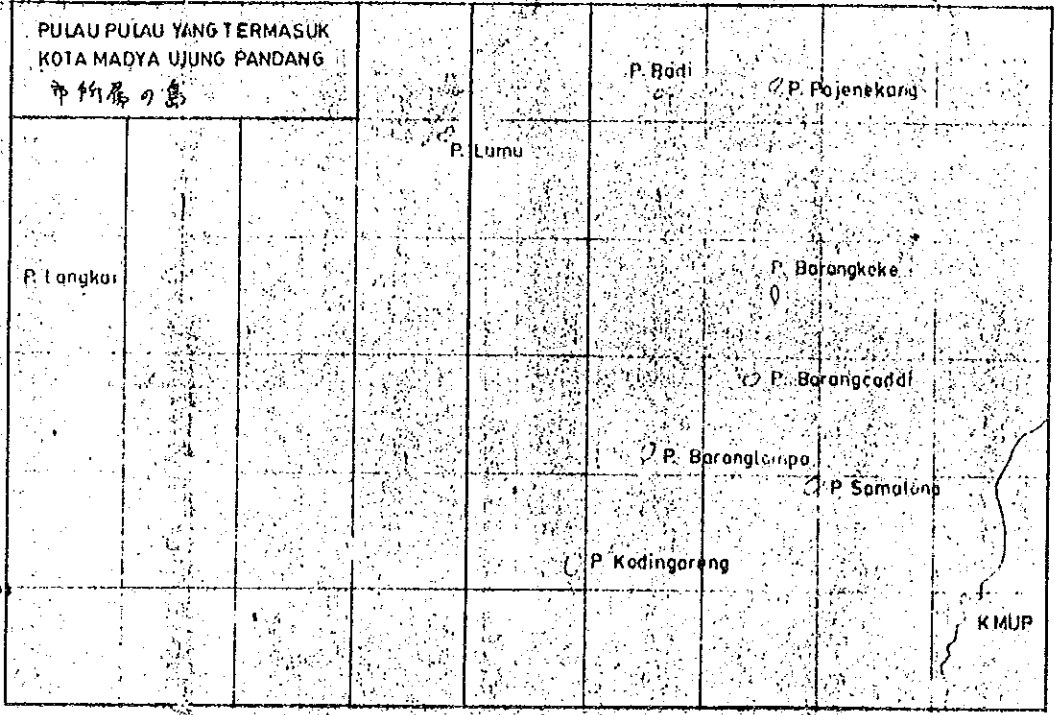
- a. Kantor Gubernur 州政府
- b. Kantor Walikota Madya 市役所
- c. Kantor Kecamatan 区役所
- d. Kantor Kelurahan 町役場
- a. Batas Kabupaten
- b. Batas Kecamatan
- c. Batas Kelurahan
- d. Batas Rukun Kampung
境界 町内会
- a. Jalan Aspal アスファルト道
- b. Jalan Batu 砂利道
- Sungai 河川



Kabupaten : 県
 Kecamatan : 郡
 Kelurahan : 村



KAB. GOWA



凡例
KETERANGAN

- a. Kantor Gubernur 州政府
- b. Kantor Walikota Madya 市役所
- c. Kantor Kecamatan 区役所
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- d. Batas Rukun Kampung
境界 町落会
- a. Jalan Aspal アスファルト道
- b. Jalan Batu 砂利道
- Sungai 河川
- Satu kotak peta sama dengan 25 Ha

1986年10月作成
DI PETAKAN DI LAPANG BULAN OKTOBER 1986

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

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Kabupaten : 県
Kecamatan : 郡
Kelurahan : 村

Kotamadya : 二級都市

KANTOR AGRARIA KOTA UJUNG PANDANG
ウジユンパンダグ市土地局

JICA

