

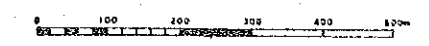
LEGEND  
LEGENDA

- Contour lines Garis kontur
- Sekolah
- Pos guru
- Jalan
- Rumah
- Masjid
- Sungai
- Saluran
- Flow direction Arus aliran
- Rice field Sawah
- Culvert
- Coconut trees Pohon kelapa
- Non irrigated farmland Ladang
- Mixed agriculture Kebun campuran
- Water pump Pompa air

LEGEND

- IRRIGATED PADDY FIELD SAWAH IRIGASI
- RAINFED PADDY FIELD SAWAH TADAH HUJAN
- UPLAND FIELD TEGALAN / LADANG
- MIXED AGRICULTURE KEBUN CAMPURAN
- PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawit)
- GRASS LAND SEMAK / ALANG-ALANG
- LIGHT FOREST HUTAN RINGAN
- UNDER BUSH HUTAN BELUKAR
- TEAK FOREST HUTAN JATI
- FISH POND KOLAM IKAN
- VILLAGE KAMPUNG
- SWAMP RAWA
- PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

SCALA / SKALA

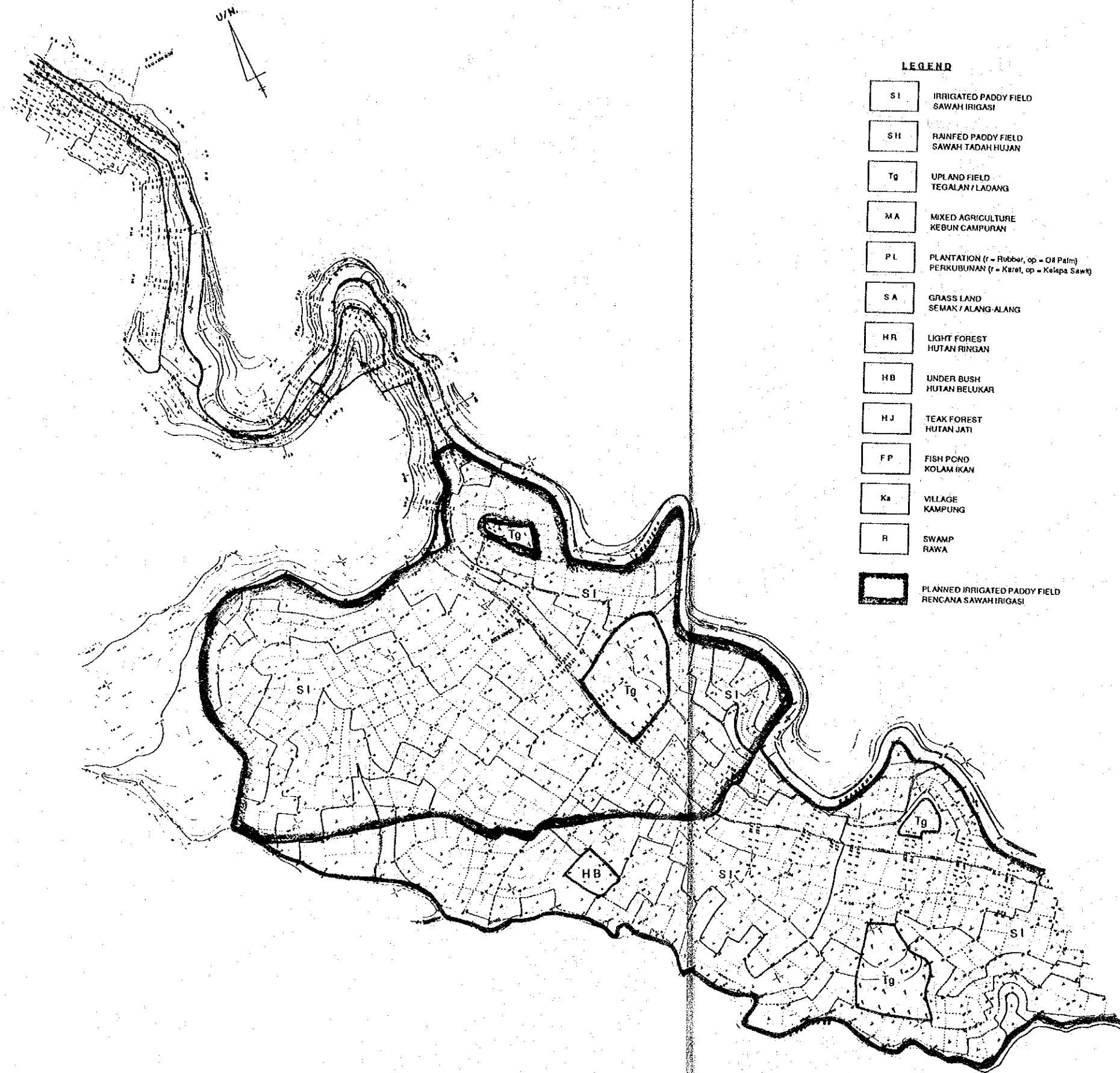


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DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT,  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP

SCHEME: PALJENGE PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA) DWG. NO. 56

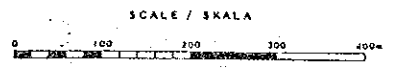


**LEGEND**

SI	IRRIGATED PADDY FIELD SAWAH IRIGASI
SH	RAINFED PADDY FIELD SAWAH TADAH HUJAN
Tg	UPLAND FIELD TEGALAN / LAOANG
MA	MIXED AGRICULTURE KEBUN CAMPURAN
PL	PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawit)
SA	GRASS LAND SEMAK / ALANG-ALANG
HR	LIGHT FOREST HUTAN RINGAN
HB	UNDER BUSH HUTAN BELUKAR
HJ	TEAK FOREST HUTAN JATI
FP	FISH POND KOLAM IKAN
Ka	VILLAGE KAMPUNG
R	SWAMP RAWA
	PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

**LEGEND**  
**LEGENDA**

	Contour line Garis kontur
	School Sekolah
	Traverse post Titik poligon
	Road Jalan
	House Rumah
	Mosque Mesjid
	River Sungai
	Canal Saluran
	Flow direction Arah aliran
	Area field Bidang
	C. vari Gor. & gorong
	C. vari 2 Pohon k. 2
	Non irrigated farming Ladang
	Horticulture Tegalan
	Mixed agriculture Kebun campuran
	Water pump Pompa air



















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IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

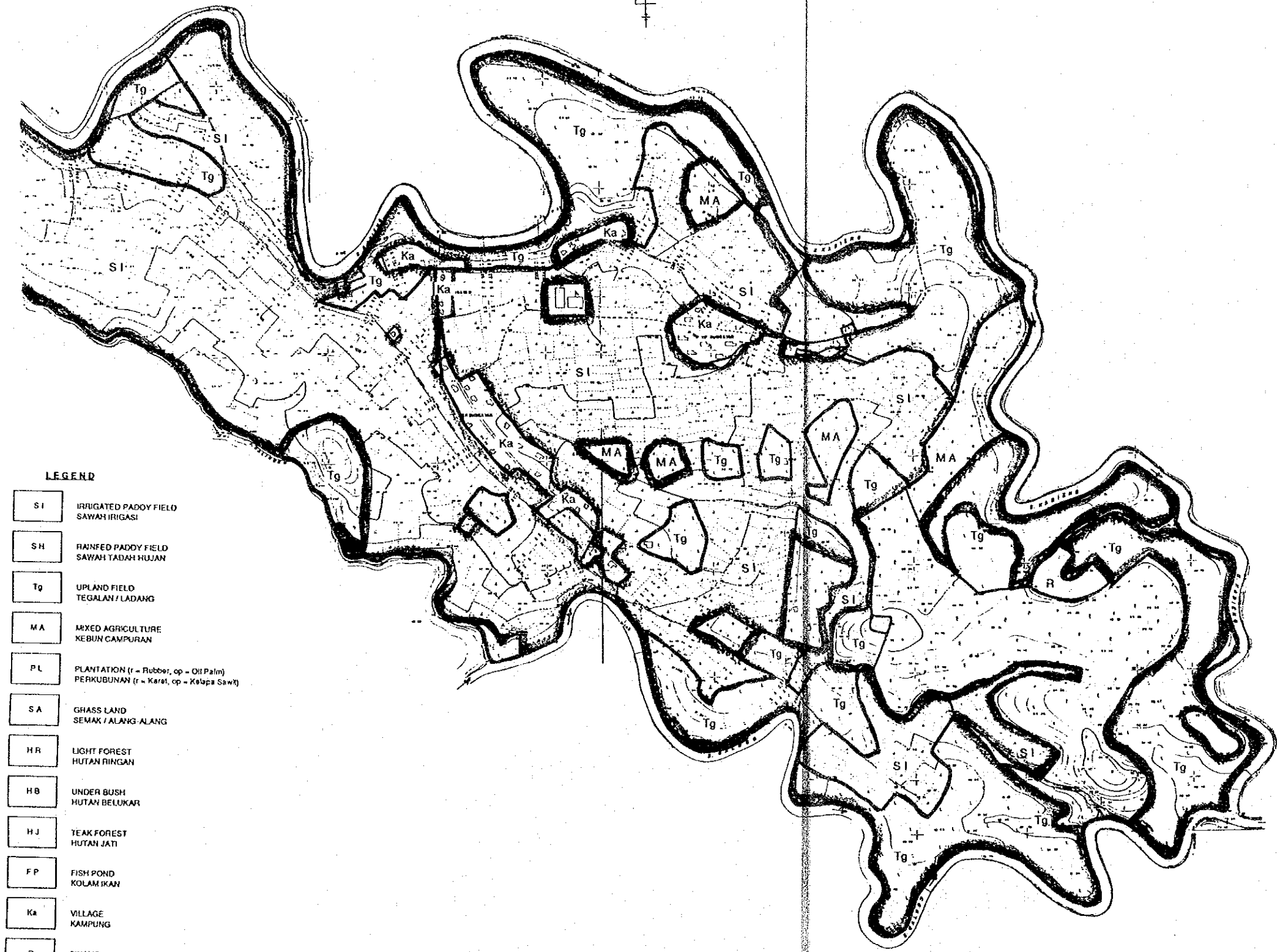
**LAND USE MAP**

SCHEME: KADIENG (1/2) PROVINCE: SOUTH SULAWESI














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TOKYO (JICA) DWG. NO. 57

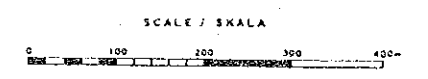
LEGEND  
LEGENDA

-  Contour line  
Garis ketinggian
-  School  
Sekolah
-  Elevated part  
Tingg. jalan
-  Road  
Jalan
-  House  
Rumah
-  Mosque  
Masjid
-  Rice field  
Sawah
-  Canal  
Saluran
-  Flow direction  
Arah aliran
-  Rice field  
Sawah
-  Collect  
Mengumpul
-  Coconut trees  
Pohon kelapa
-  Non irrigated paddy  
Ladang
-  Meculture  
Tegalan
-  Mixed agriculture  
Kebun campuran
-  Water pump  
Pompa air



LEGEND

-  IRRIGATED PADDY FIELD  
SAWAH IRRIGASI
-  RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
-  UPLAND FIELD  
TEGALAN / LADANG
-  MIXED AGRICULTURE  
KEBUN CAMPURAN
-  PLANTATION (r - Rubber, op - Oil Palm)  
PERKUBUNAN (r - Karat, op - Kelapa Sawit)
-  GRASS LAND  
SEMAK / ALANG-ALANG
-  LIGHT FOREST  
HUTAN RINGAN
-  UNDER BUSH  
HUTAN BELUKAR
-  TEAK FOREST  
HUTAN JATI
-  FISH POND  
KOLAM IKAN
-  VILLAGE  
KAMPUNG
-  SWAMP  
RAWA
-  PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRRIGASI

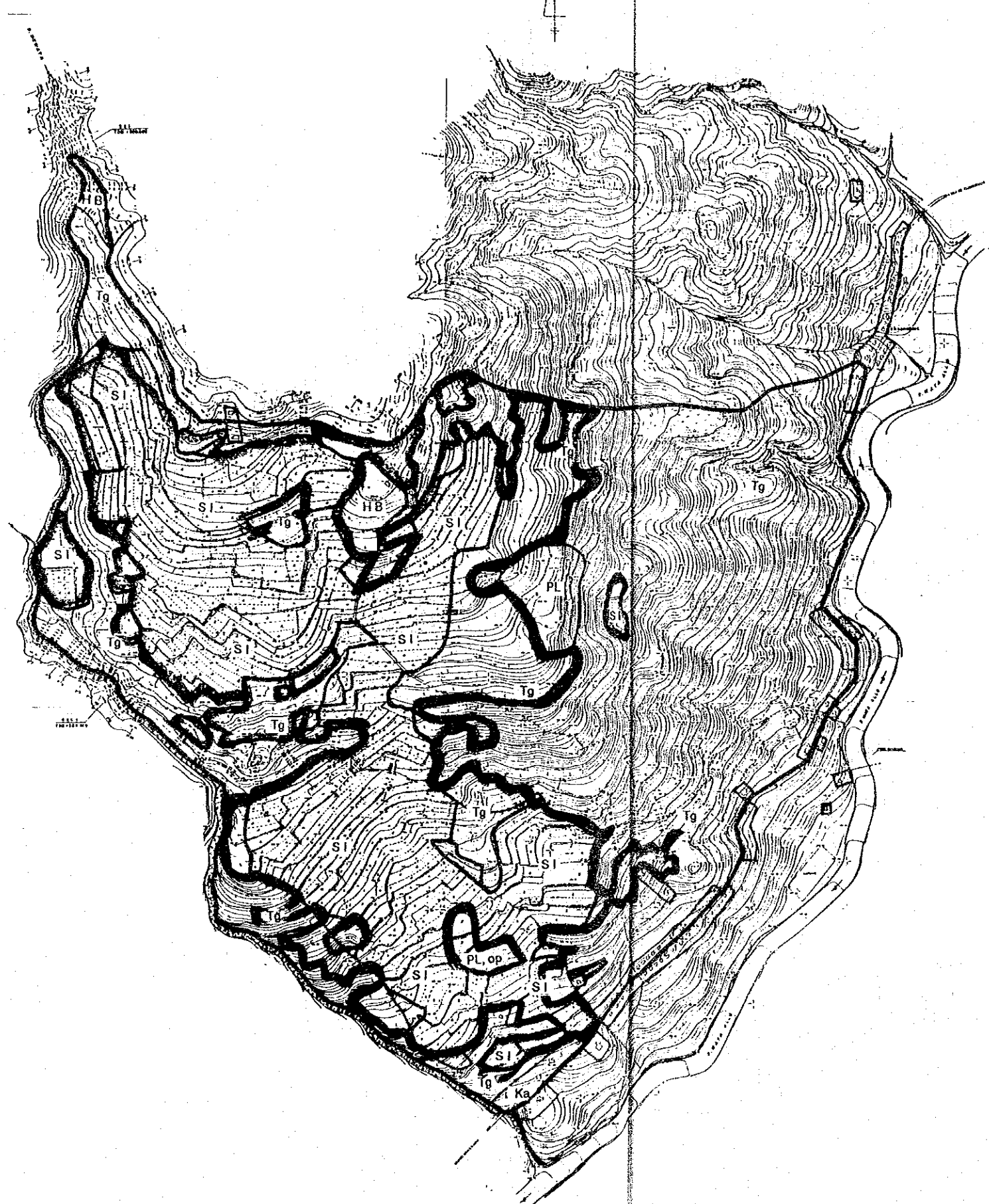
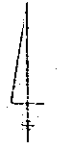


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DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP

SCHEME: KADJENG (2/2) PROVINCE: SOUTH SULAWESI  
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA) DWG. NO. 58

U/N.



LEGEND  
LEGENDA

- Contour line  
Garis ketinggian
- Sekolah  
Sekolah
- Triangle point  
Titik poligon
- Road  
Jalan
- House  
Rumah
- Mosque  
Mesjid
- River  
Sungai
- Canal  
Saluran
- Flow direction  
Arah aliran
- Area field  
Bidang
- Culvert  
Gerbang gasing
- Coconut tree  
Pohon kelapa
- Non irrigated farming  
Ladang
- Horticulture  
Tepukan
- Mixed agriculture  
Kebun campuran
- Water pump  
Pompa air

LEGEND

- SI IRRIGATED PADDY FIELD  
SAWAH IRIGASI
- SH RAINFED PADDY FIELD  
SAWAH TADAN HUJAN
- Tg UPLAND FIELD  
TEGALAN / LADANG
- MA MIXED AGRICULTURE  
KEBUN CAMPURAN
- PL PLANTATION (r = Rubber, op = Oil Palm)  
PERKUBUNAN (r = Karet, op = Kelapa Sawit)
- SA GRASS LAND  
SEMAX / ALANG-ALANG
- HR LIGHT FOREST  
HUTAN RINGAN
- HB UNDER BUSH  
HUTAN BELUKAR
- HJ TEAK FOREST  
HUTAN JATI
- FP FISH POND  
KOLAM IKAN
- Ka VILLAGE  
KAMPUNG
- R SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRIGASI

SCALA / SKALA



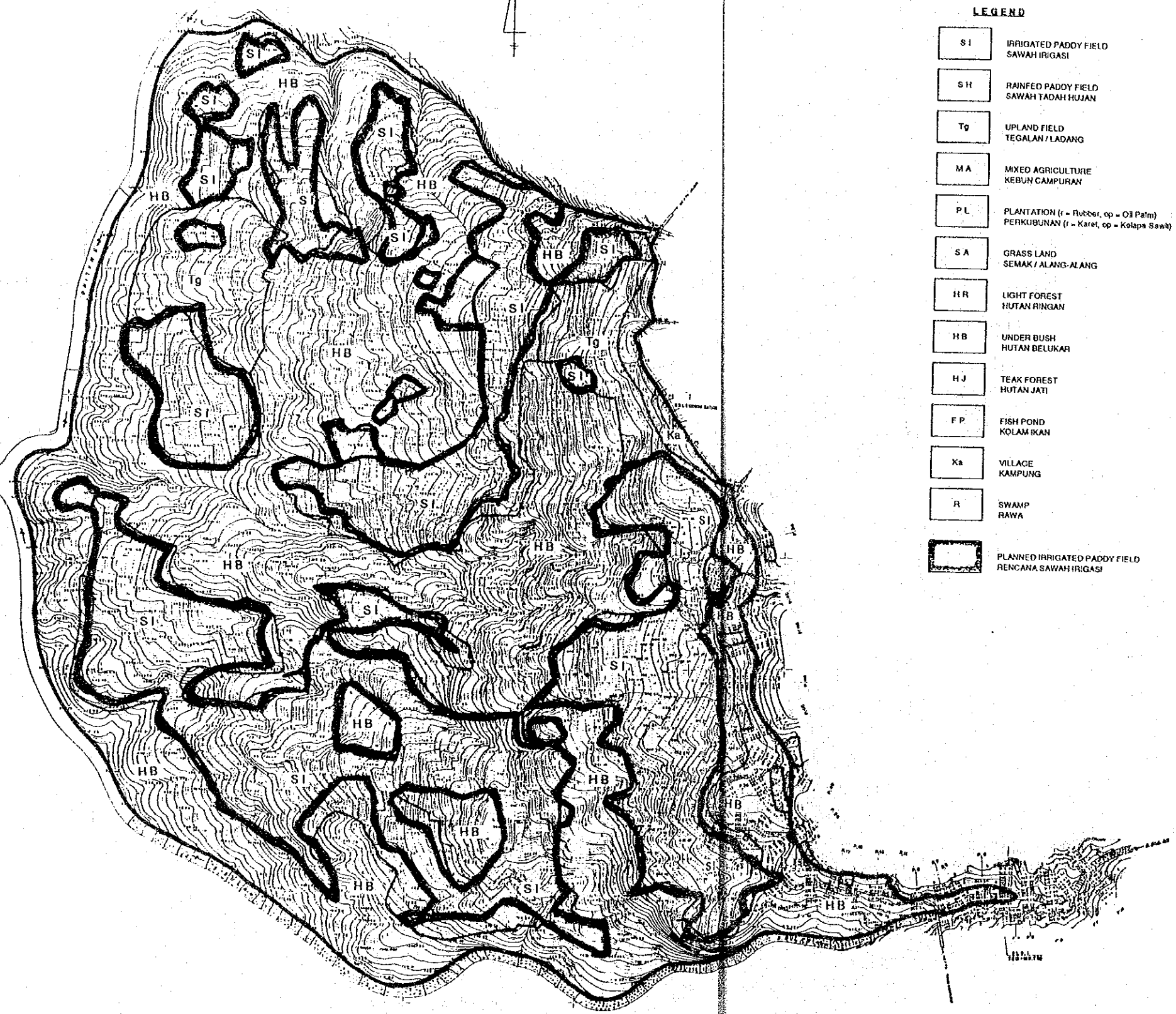
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DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP

SCHEME: KANDI PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA)

DWG. NO.  
59

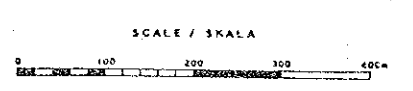


**LEGEND**

SI	IRRIGATED PADDY FIELD SAWAH IRIGASI
SH	RAINFED PADDY FIELD SAWAH TADAH HUJAN
Tg	UPLAND FIELD TEGALAN / LADANG
MA	MIXED AGRICULTURE KEBUN CAMPURAN
PL	PLANTATION (r - Rubber, op - Oil Palm) PERKUBUNAN (r - Karet, op - Kelapa Sawit)
SA	GRASS LAND SEMAK / ALANG-ALANG
HR	LIGHT FOREST HUTAN RINGAN
HB	UNDER BUSH HUTAN BELUKAR
HJ	TEAK FOREST HUTAN JATI
FP	FISH POND KOLAM IKAN
Xa	VILLAGE KAMPUNG
R	SWAMP RAWA
	PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

**LEGENDA**  
**LEGENDA**

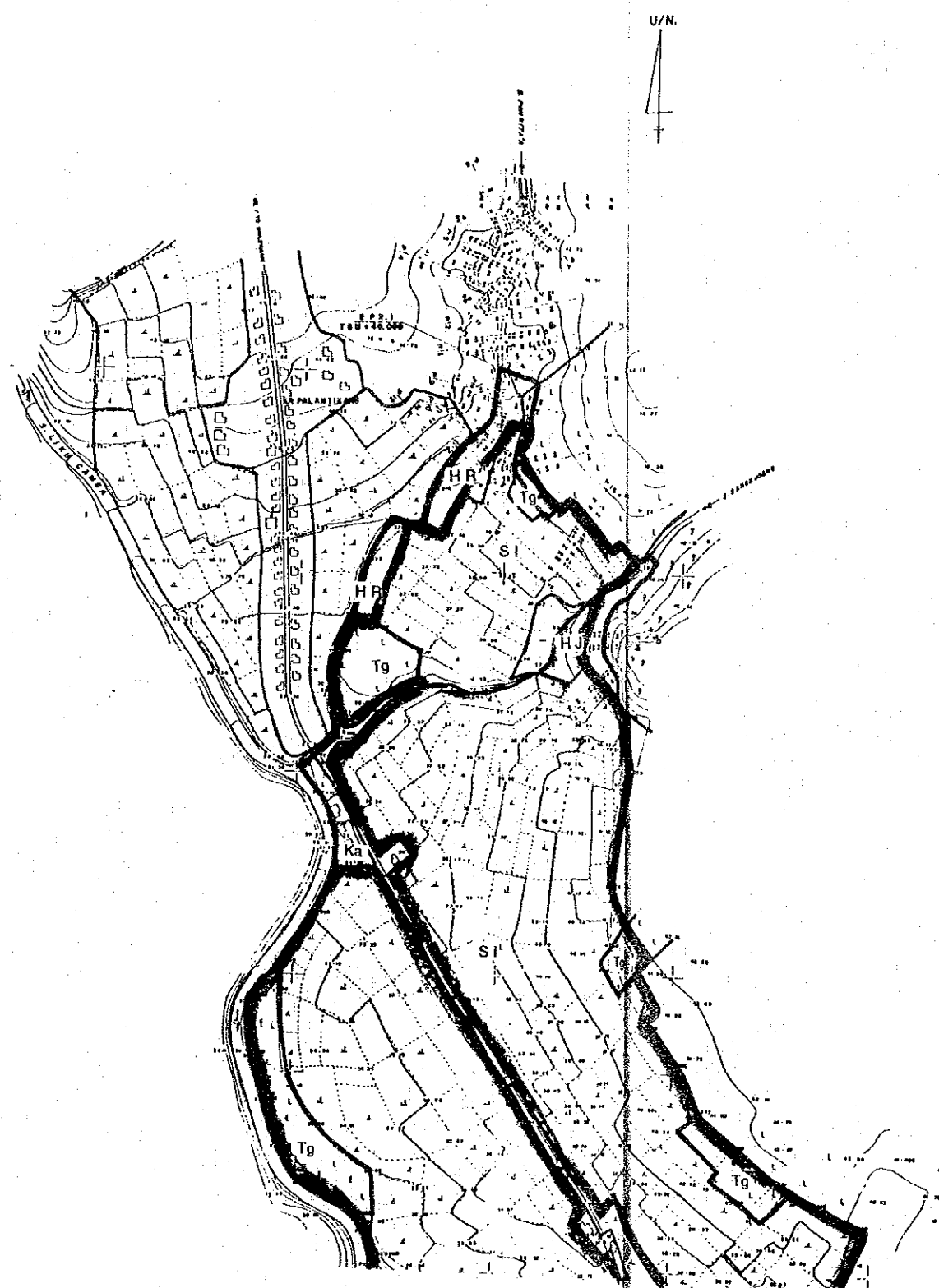
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	School Sekolah
	Traverse point Titik poligon
	Road Jalan
	House Rumah
	Mosque Masjid
	River Sungai
	Canal Saluran
	Flow direction Arah aliran
	River field Sawah
	Cultured forest Gorong gorong
	Coconut tree Pohon kelapa
	Non irrigated farming Ladang
	Horticulture Tebuan
	Mixed agriculture Kebun campuran
	Water pump Pompa air



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FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP  
SCHEME: LEMBAH BATA PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA) DWG. NO. 60



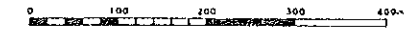
LEGEND  
LEGENDA

- Contour line  
Garis kontur
- Sekolah  
Sekolah
- Transfer post  
Titik polygon
- Road  
Jalan
- House  
Rumah
- Mosque  
Masjid
- River  
Sungai
- Canal  
Saluran
- Flow direction  
Arah aliran
- Rice field  
Sawah
- Culvert  
Gorong gorong
- Coconut trees  
Pohon kelapa
- Non-irrigated farming  
Ladang
- Horticulture  
Tegalan
- Mixed agriculture  
Kebun campuran
- Water pump  
Pompa air

LEGEND

- S I IRRIGATED PADDY FIELD  
SAWAH IRIGASI
- S H RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
- Tg UPLAND FIELD  
TEGALAN / LADANG
- M A MIXED AGRICULTURE  
KEBUN CAMPURAN
- P L PLANTATION (r = Rubber, op = Oil Palm)  
PERKUBUNAN (r = Karet, op = Kelapa Sawit)
- S A GRASS LAND  
SEMAK / ALANG-ALANG
- H R LIGHT FOREST  
HUTAN RINGAN
- H B UNDER BUSH  
HUTAN BELUKAR
- H J TEAK FOREST  
HUTAN JATI
- F P FISH POND  
KOLAM IKAN
- Ka VILLAGE  
KAMPUNG
- R SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRIGASI

SCALE / SKALA



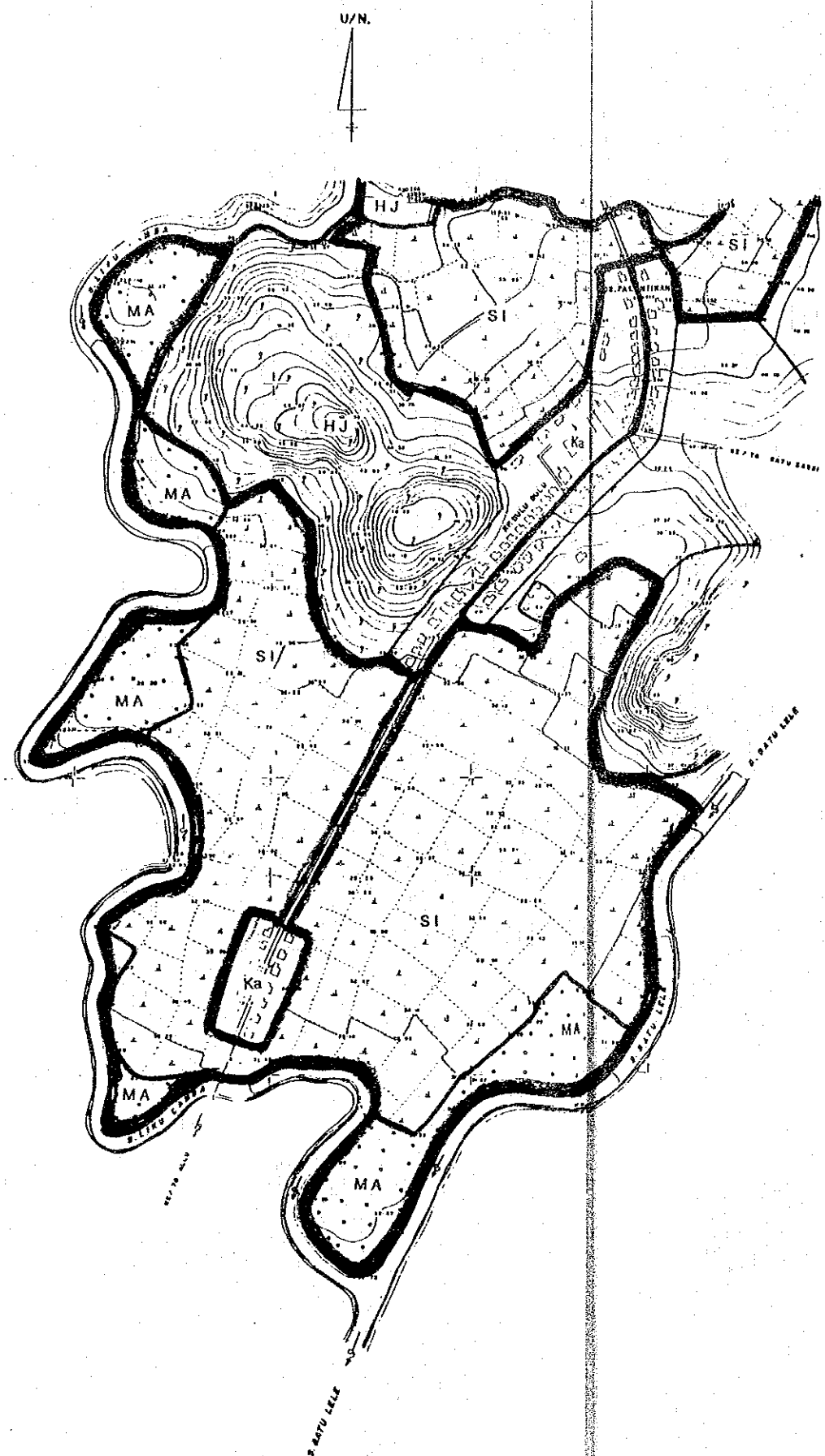
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FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP

SCHEME: PANRITA (1/2) PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA) DWG. NO.  
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LEGENDA  
LEGENDA

- Contour line  
Garis ketinggian
- School  
Sekolah
- Elevation point  
Titik ketinggian
- Road  
Jalan
- House  
Rumah
- Mosque  
Mesjid
- River  
Sungai
- Canal  
Saluran
- Flow direction  
Arah aliran
- Rice field  
Sawah
- Cultivated area  
Gorong gorong
- Cotton area  
Pohon kapas
- Non irrigated farmland  
Ladang
- Horticulture  
Tegalan
- Mixed agriculture  
Kebun campuran
- Water pump  
Pompa air

LEGEND

- S I IRRIGATED PADDY FIELD  
SAWAH IRIGASI
- S H RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
- T g UPLAND FIELD  
TEGALAN / LADANG
- M A MIXED AGRICULTURE  
KEBUN CAMPURAN
- P L PLANTATION (r = Rubber, op = Oil Palm)  
PERKUBUNYAN (r = Karet, op = Kelapa Sawit)
- S A GRASS LAND  
SEMAK / ALANG-ALANG
- H R LIGHT FOREST  
HUTAN RINGAN
- H B UNDER BUSH  
HUTAN BELUKAR
- H J TEAK FOREST  
HUTAN JATI
- F P FISH POND  
KOLAM IKAN
- K a VILLAGE  
KAMPUNG
- R SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRIGASI

SCALE / SKALA

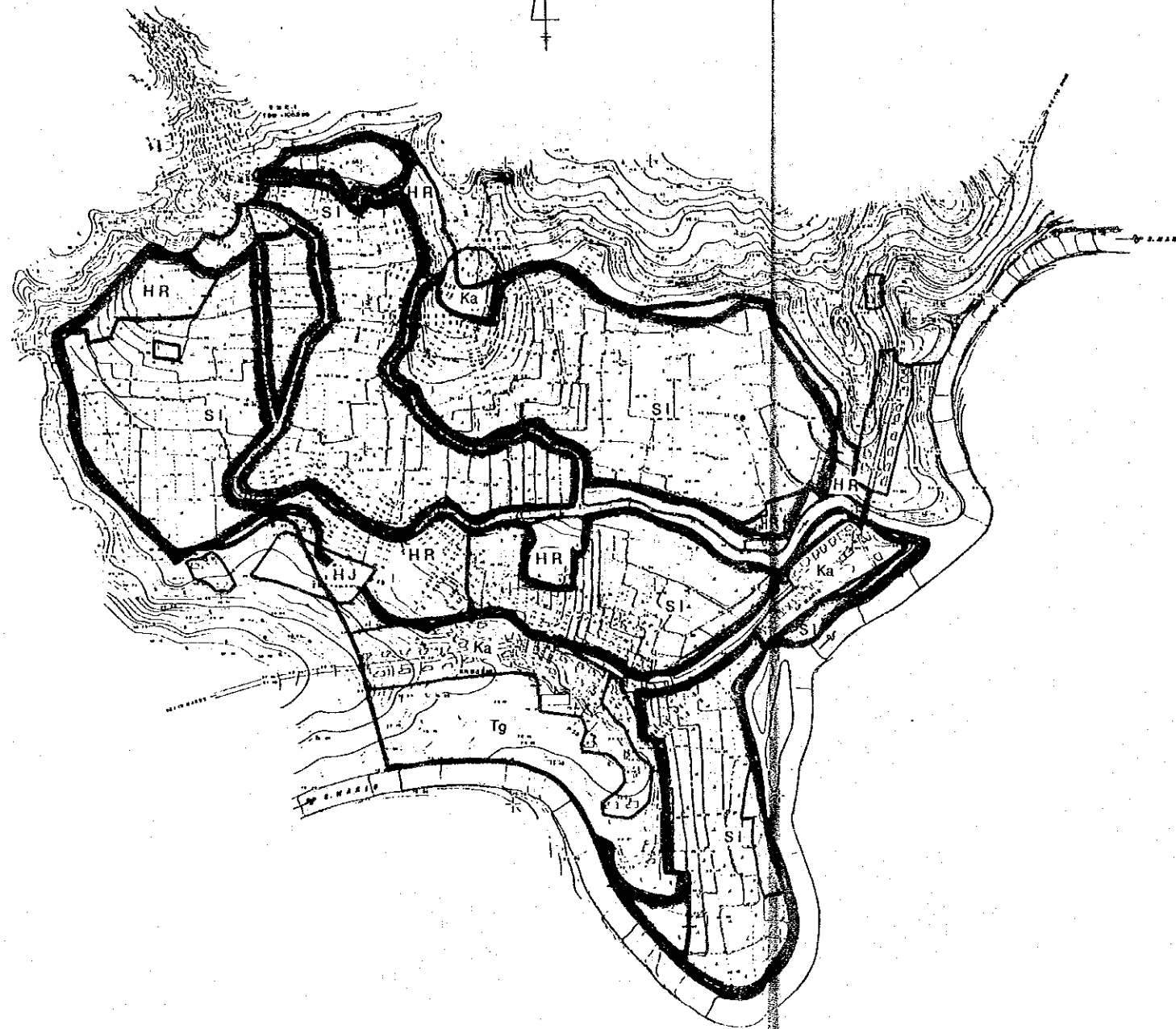


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FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP

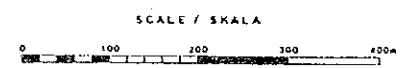
SCHEME: PANRITA (2/2) PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA) DWG. NO.  
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LEGEND  
LEGENDA

- Contour line  
Garis ketinggian
- School  
Sekolah
- Traverse point  
Titik poligon
- Road  
Jalan
- House  
Rumah
- Mosque  
Masjid
- River  
Sungai
- Canal  
Saluran
- Flow direction  
Arah aliran
- Rice field  
Sawah
- Culvert  
Salang gantung
- Coconut tree  
Pohon kelapa
- Non irrigated farming  
Ladang
- Horticulture  
Tegalan
- Mixed agriculture  
Kebun campuran
- Water pump  
Pompa air



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FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP

SCHEME: MARIO-H-H PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA) DWG. NO.  
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LEGEND

















- IRRIGATED PADDY FIELD  
SAWAH IRIGASI
- RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
- UPLAND FIELD  
TEGALAN / LADANG
- MIXED AGRICULTURE  
KEBUN CAMPURAN
- PLANTATION (r = Rubber, op = Oil Palm)  
PERKUBUNAN (r = Karet, op = Kelapa Sawit)
- GRASS LAND  
SEMAK / ALANG-ALANG
- LIGHT FOREST  
HUTAN RINGAN
- UNDER BUSH  
HUTAN BELUKAR
- TEAK FOREST  
HUTAN JATI
- FISH POND  
KOLAM IKAN
- VILLAGE  
KAMPUNG
- SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCAHA SAWAH IRIGASI

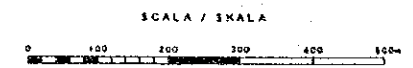
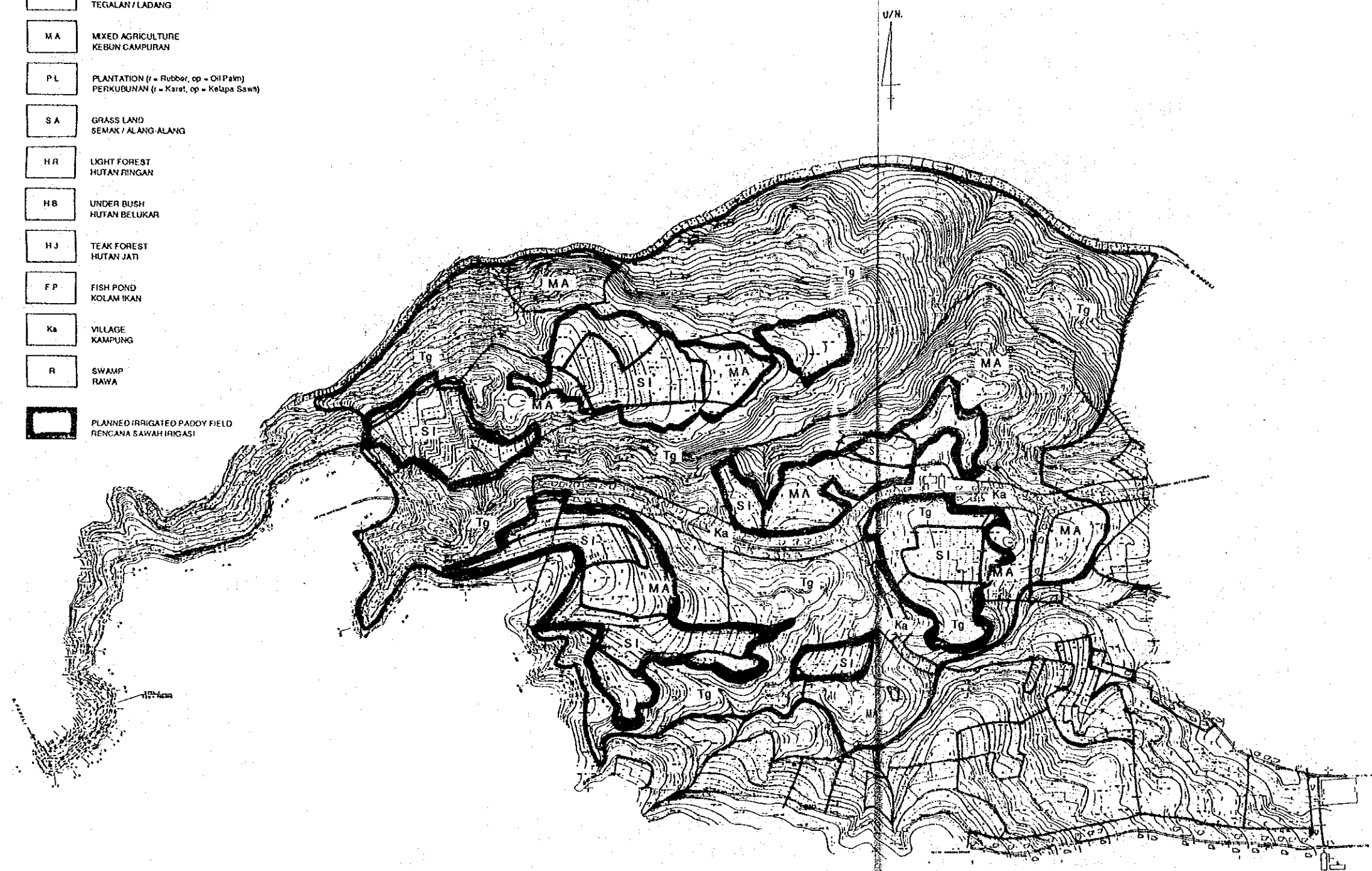


LEGEND

- SI IRRIGATED PADDY FIELD  
SAWAH IRRIGASI
- SH RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
- Tg UPLAND FIELD  
TEGALAN / LADANG
- MA MIXED AGRICULTURE  
KEBUN CAMPURAN
- PL PLANTATION (r = Rubber, op = Oil Palm)  
PERKUBUNAN (r = Karet, op = Kelapa Sawit)
- SA GRASS LAND  
SEMAK / ALANG-ALANG
- HR LIGHT FOREST  
HUTAN RINGAN
- HB UNDER BUSH  
HUTAN BELUKAR
- HJ TEAK FOREST  
HUTAN JATI
- FP FISH POND  
KOLAM IKAN
- Ka VILLAGE  
KAMPUNG
- R SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRRIGASI

LEGEND  
LEGENDA

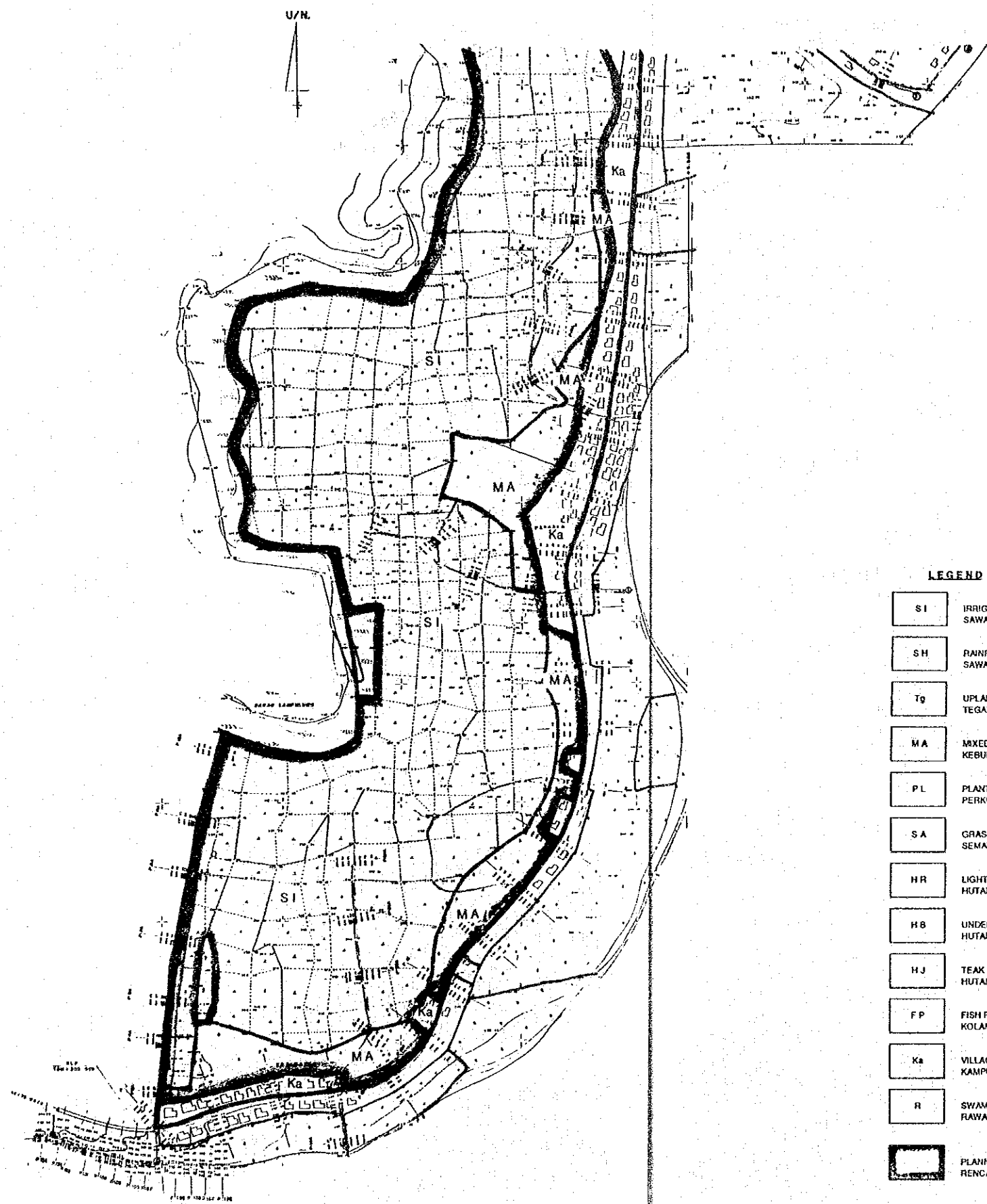
-  Contour line  
Garis ketinggian
-  School  
Sekolah
-  Traverse post  
Titik poligon
-  Road  
Jalan
-  House  
Rumah
-  Mosque  
Masjid
-  River  
Sungai
-  Canal  
Saluran
-  Flow direction  
Arah aliran
-  Area field  
Sawah
-  Culvert  
Gorong gorong
-  Coconut tree  
Pohon kelapa
-  Non irrigated farming  
Ladang
-  Horticulture  
Tegalan
-  Mixed agriculture  
Kebun campuran
-  Water pump  
Pompa air



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DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP  
SCHEME: PAKELI II PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA) DWG. NO. 64



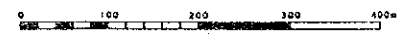
**LEGEND**

- SI IRRIGATED PADDY FIELD  
SAWAH IRIGASI
- SH RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
- Tg UPLAND FIELD  
TEGALAN / LADANG
- MA MIXED AGRICULTURE  
KEBUN CAMPURAN
- PL PLANTATION (r = Rubber, op = Oil Palm)  
PERKUBUNAN (r = Karet, op = Kelapa Sawit)
- SA GRASS LAND  
SEMAK / ALANG-ALANG
- HR LIGHT FOREST  
HUTAN RINGAN
- HB UNDER BUSH  
HUTAN BELUKAR
- HJ TEAK FOREST  
HUTAN JATI
- FP FISH POND  
KOLAM IKAN
- Ka VILLAGE  
KAMPUNG
- R SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRIGASI

**LEGEND**  
**LEGENDA**

- Contour line  
Garis ketinggian
- Shade  
Bayang-bayang
- Traverse point  
Titik pasang
- Road  
Jalan
- House  
Rumah
- Mosque  
Mesjid
- River  
Sungai
- Canal  
Saluran
- Field elevation  
Area aliran
- Rice field  
Sawah
- Culvert  
Saluran gorong
- Coconut tree  
Pohon kelapa
- Non-irrigated farming  
Ladang
- Horticulture  
Tegalan
- Mixed agriculture  
Kebun campuran
- Water pump  
Pompa air

**SCALE / SKALA**



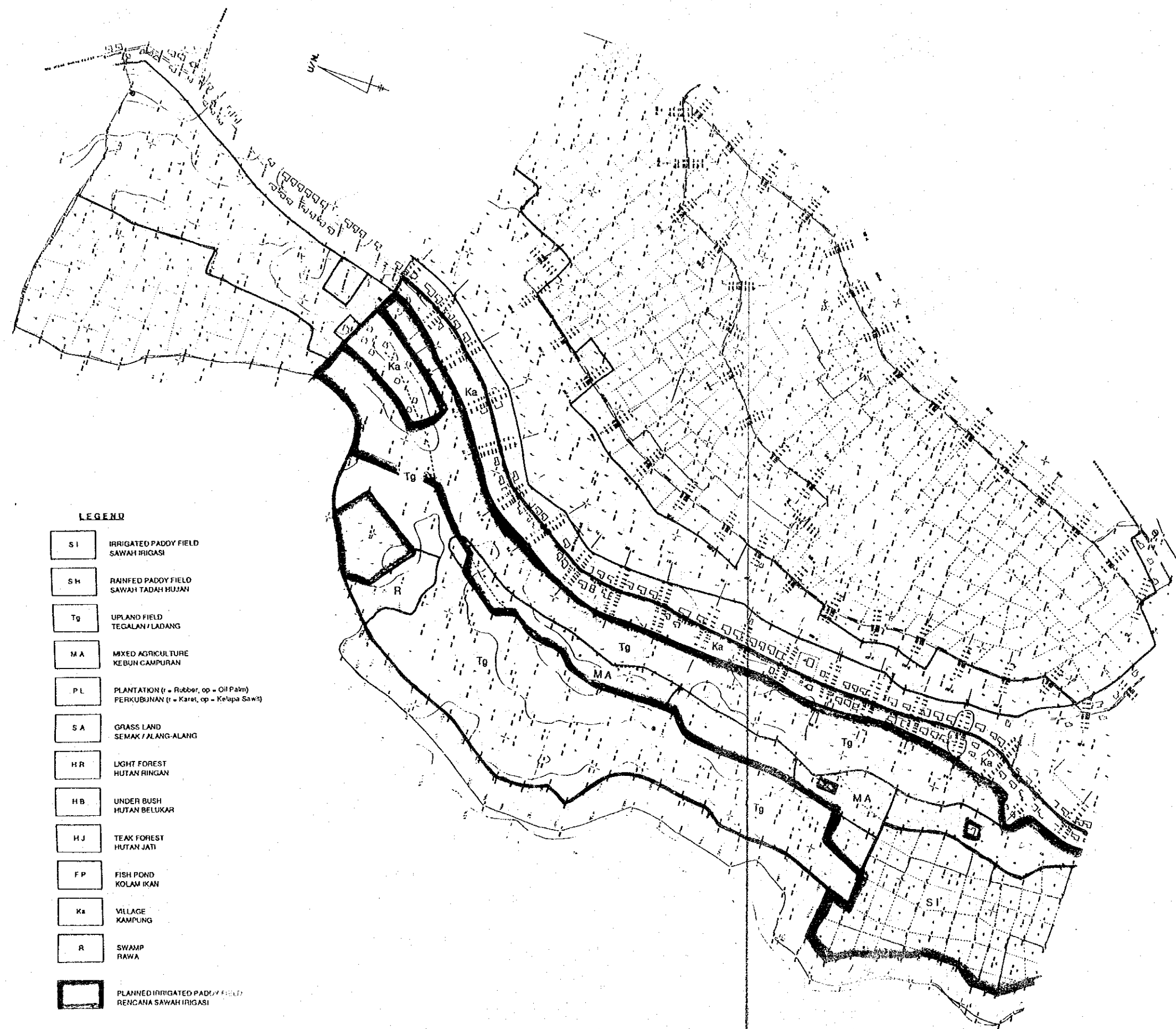
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DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

**LAND USE MAP**

SCHEME: LAMPUA/PADAULO (1/2) PROVINCE: SOUTH SULAWESI

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TOKYO (JICA)

DWG. NO.  
65

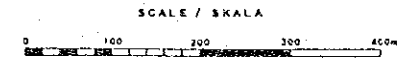


**LEGEND**

SI	IRRIGATED PADDY FIELD SAWAH IRIGASI
SH	RAINFED PADDY FIELD SAWAH TADAH HUJAN
Tg	UPLAND FIELD TEGALAN / LADANG
MA	MIXED AGRICULTURE KEBUN CAMPURAN
PL	PLANTATION (r = Rubber, op = Oil Palm) PERKUBUHAN (r = Karat, op = Kelapa Sawit)
SA	GRASS LAND SEMAK / LANG-ALANG
HR	LIGHT FOREST HUTAN RINGAN
HB	UNDER BUSH HUTAN BELUKAR
HJ	TEAK FOREST HUTAN JATI
FP	FISH POND KOLAM IKAN
Ka	VILLAGE KAMPUNG
R	SWAMP RAWA
	PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

**LEGEND**  
**LEGENDA**

	Contour line Garis ketinggian
	School Sekolah
	Fish pond Tangkai perikanan
	Road Jalan
	House Rumah
	Mosque Masjid
	River Sungai
	Canal Saluran
	Flow direction Arah aliran
	Rice field Sawah
	Culvert Gorong gorong
	Coconut trees Pohon kelapa
	Non irrigated farming Ladang
	Horticulture Tegalan
	Mixed agriculture Kebun campuran
	Waterpump Pompa air



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AT FARM LEVEL


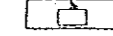
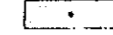
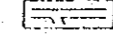
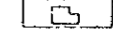
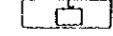
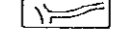
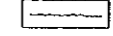
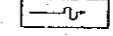
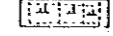
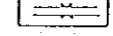
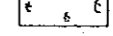
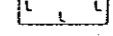
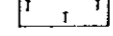
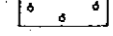

**LAND USE MAP**

SCHEME: LAMPUNJA / PADAELO (2/2) PROVINCE: SOUTH SULAWESI

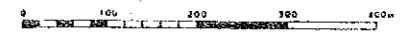
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TOKYO (JICA)

DWG. NO.  
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LEGEND  
LEGENDA

-  Contour line  
Garis ketinggian
-  School  
Sekolah
-  Tramway post  
Titi tetapan
-  Road  
Jalan
-  House  
Rumah
-  Mosque  
Mesjid
-  River  
Sungai
-  Canal  
Saluran
-  Flow direction  
Arah aliran
-  Rice field  
Sawah
-  Cultured  
Gorong gorong
-  Coconut tree  
Pohon kelapa
-  Non-irrigated farming  
Ladang
-  Horticulture  
Tegalan
-  Mixed agriculture  
Kebun campuran
-  Water pump  
Pompa air

SCALE / SKALA
















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FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

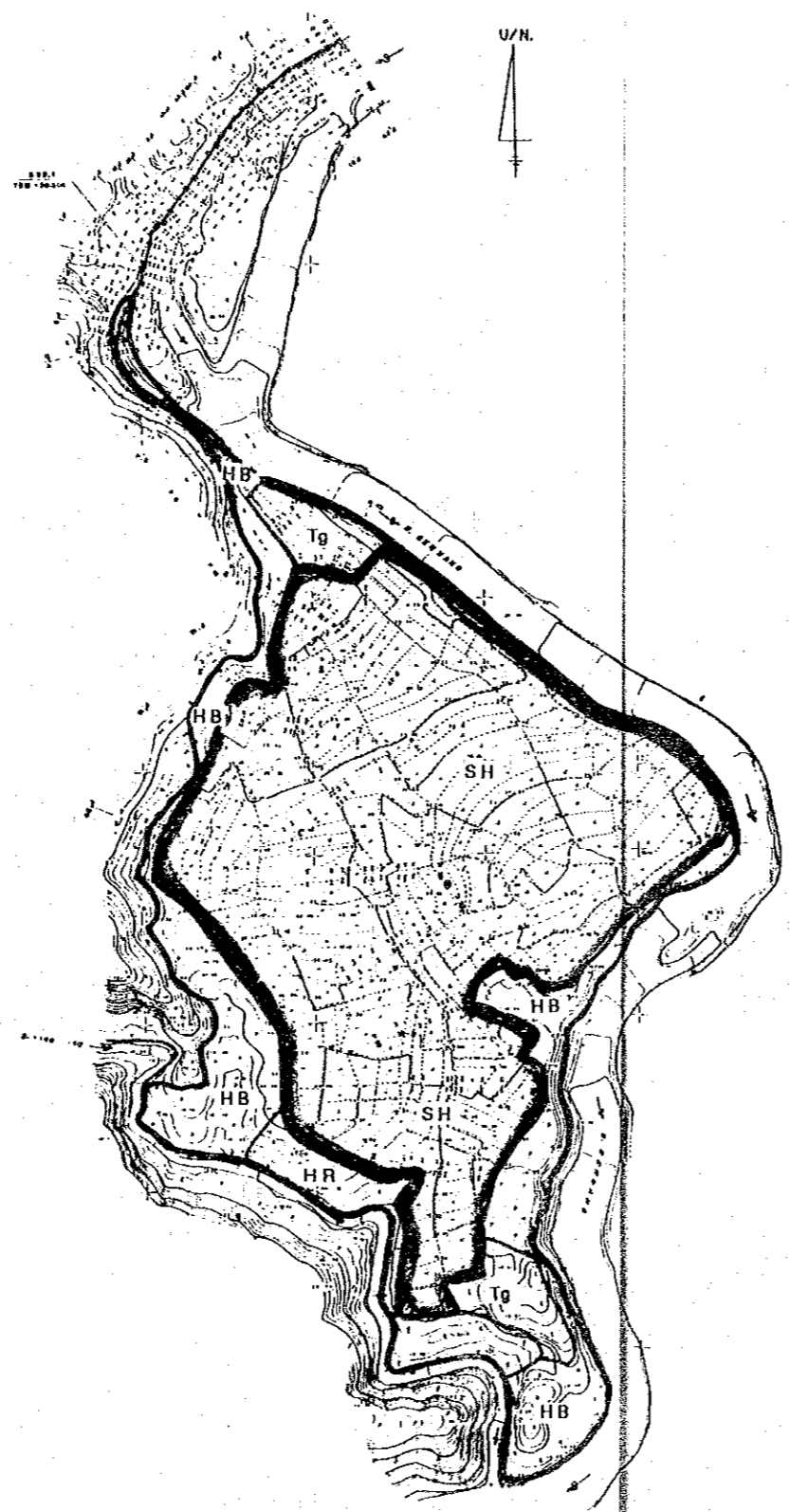
LAND USE MAP

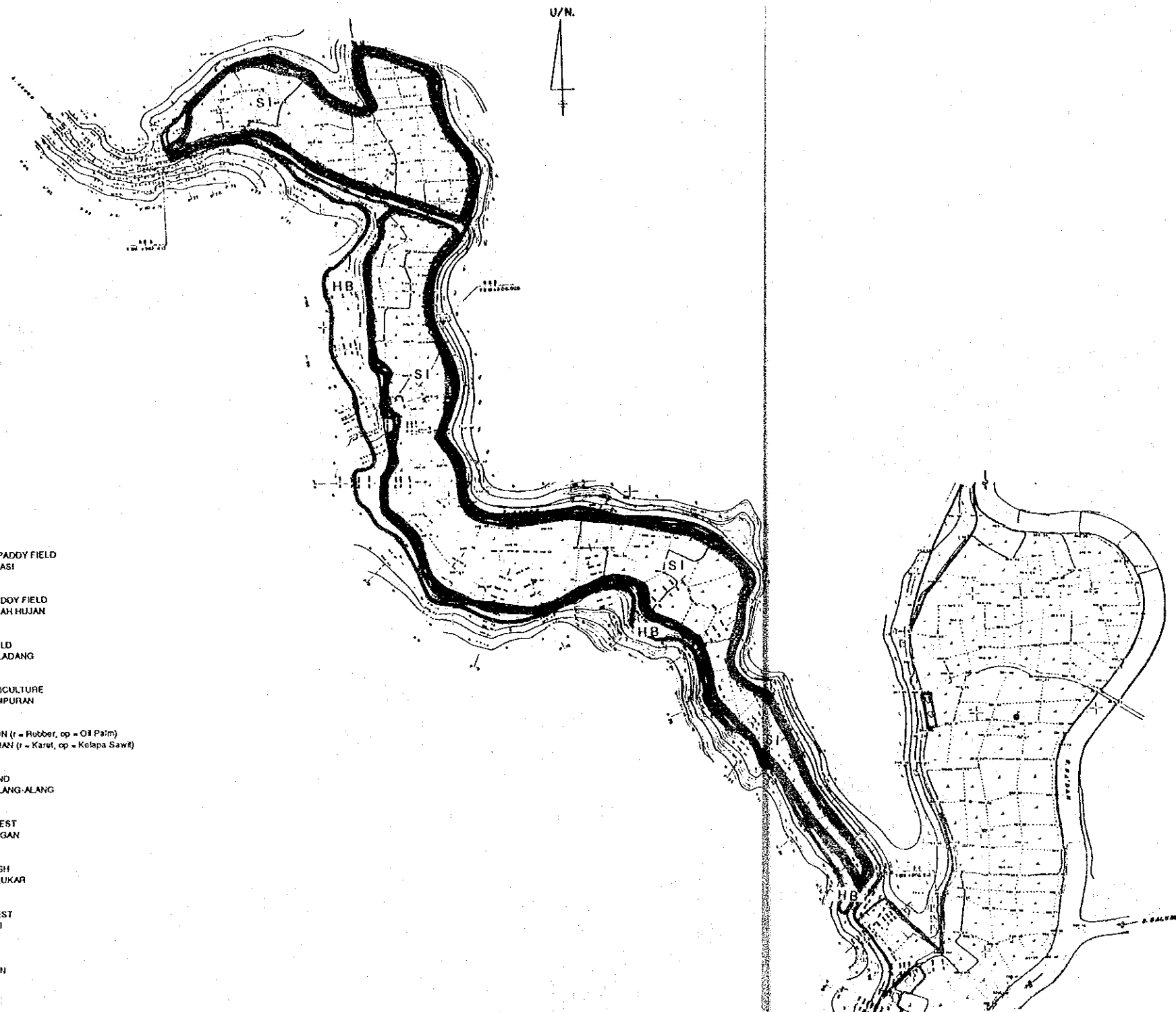
SCHEME: MALIMBU PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA) DWG. NO. 67

LEGEND

-  IRRIGATED PADDY FIELD  
SAWAH IIRIGASI
-  RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
-  UPLAND FIELD  
TEGALAN / LADANG
-  MIXED AGRICULTURE  
KEBUN CAMPURAN
-  PLANTATION (r = Rubber, op = Oil Palm)  
PERKUBUNAN (r = Karet, op = Kelapa Sawit)
-  GRASS LAND  
SEMAK / ALANG-ALANG
-  LIGHT FOREST  
HUTAN RINGAN
-  UNDER BUSH  
HUTAN BELUKAR
-  TEAK FOREST  
HUTAN JATI
-  FISH POND  
KOLAM IKAN
-  VILLAGE  
KAMPUNG
-  SWAMP  
RAWA
-  PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IIRIGASI



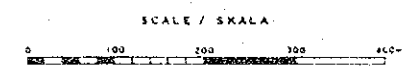


LEGEND  
LEGENDA

- Contour line Garis ketinggian
- Sekolah Sekolah
- Elevation point Titik ketinggian
- Road Jalan
- House Rumah
- Mosque Masjid
- River Sungai
- Canal Saluran
- Flow direction Arah aliran
- Rice field Sawah
- Cultures Garang garang
- Coconut trees Pohon kelapa
- Non irrigated farms Ladang
- Horticulture Tegalan
- Mixed agriculture Kebun campuran
- Waterpump Pompa air

LEGEND

- S I IRRIGATED PADDY FIELD SAWAH IRIGASI
- S H RAINFED PADDY FIELD SAWAH TADAH HUJAN
- T g UPLAND FIELD TEGALAN / LADANG
- M A MIXED AGRICULTURE KEBUN CAMPURAN
- P L PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawit)
- S A GRASS LAND SEMAK / ALANG-ALANG
- H R LIGHT FOREST HUTAN RINGAN
- H B UNDER BUSH HUTAN BELUKAR
- H J TEAK FOREST HUTAN JATI
- F P FISH POND KOLAM IKAN
- K a VILLAGE KAMPUNG
- R SWAMP RAWA
- PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI



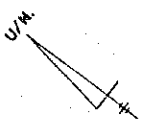
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DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP

SCHEME: BALU AKUNG PROVINCE: SOUTH SULAWESI

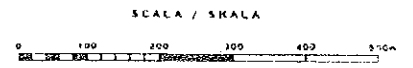
JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA)

DWG. NO.  
68



LEGEND  
LEGENDA

- Contour line  
Garis kontur
- School  
Sekolah
- Traverse point  
Titik poligon
- Road  
Jalan
- House  
Rumah
- Mosque  
Masjid
- River  
Sungai
- Canal  
Saluran
- Flow direction  
Arah aliran
- Rice field  
Sawah
- Culvert  
Gorong gorong
- Coconut tree  
Pohon kelapa
- Non irrigated farming  
Ladang
- Horticulture  
Tegalan
- Mixed agriculture  
Kebun campuran
- Water pump  
Pompa air



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IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

LAND USE MAP  
SCHEME: MARRI PROVINCE: SOUTH SULAWESI

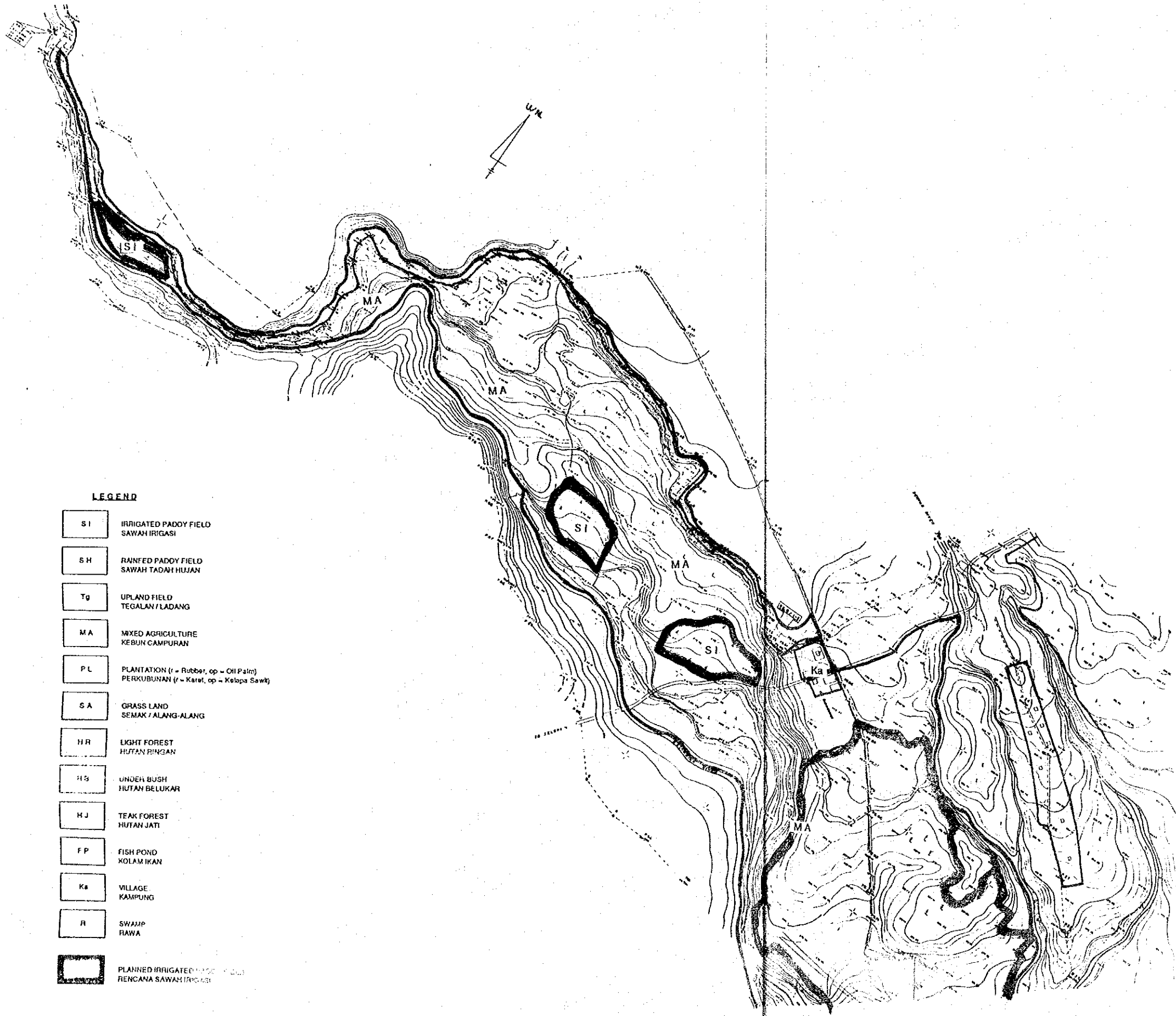
JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO. 69

LEGEND

- IRRIGATED PADDY FIELD  
SAWAH IRIGASI
- RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
- UPLAND FIELD  
TEGALAN/LADANG
- MIXED AGRICULTURE  
KEBUN CAMPURAN
- PLANTATION (r - Rubber, op - Oil Palm)  
PERKUBUNHAN (r - Karet, op - Kelapa Sawit)
- GRASS LAND  
SEMAK/ALANG-ALANG
- LIGHT FOREST  
HUTAN RINGAN
- UNDER BUSH  
HUTAN BELUKAR
- TEAK FOREST  
HUTAN JATI
- FISH POND  
KOLAM IKAN
- VILLAGE  
KAMPUNG
- SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRIGASI







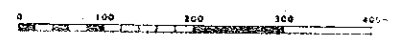
**LEGEND**

- SI IRRIGATED PADDY FIELD  
SAWAH IRIGASI
- SH RAINFED PADDY FIELD  
SAWAH TADAH HUJAN
- Tg UPLAND FIELD  
TEGALAN / LADANG
- MA MIXED AGRICULTURE  
KEBUN CAMPURAN
- PL PLANTATION (r = Rubber, op = Oil Palm)  
PERKUBUNYAN (r = Karet, op = Kelapa Sawit)
- SA GRASS LAND  
SEMAK / ALANG-ALANG
- HR LIGHT FOREST  
HUTAN RINGAN
- HS UNDER BUSH  
HUTAN BELUKAR
- HJ TEAK FOREST  
HUTAN JATI
- FP FISH POND  
KOLAM IKAN
- Ka VILLAGE  
KAMPUNG
- R SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRIGASI

**LEGENDA  
LEGEND**

- |   |   |   |  |
|---|---|---|--|
| <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">O</span> | TITIK DATAR KOORDINAT<br>(X, Y) DAN IF<br>SPOT HEIGHT | <span style="border: 1px solid black; padding: 2px;"> </span> | PLANTATION<br>BATAS TANAMAN<br>BOUNDARY PLANTATION |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | TITIK KETINGGIAN<br>BENCH MARK                        | <span style="border: 1px solid black; padding: 2px;"> </span> | SAWAH<br>PADDY FIELD                               |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | <b>BANGUNAN<br/>STRUCTURE</b>                         | <span style="border: 1px solid black; padding: 2px;"> </span> | LADANG/REBUN<br>UPLAND FIELD                       |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | RUMAH<br>HOUSE  | <span style="border: 1px solid black; padding: 2px;"> </span> | BUAH-BUAHAN<br>FIELD OF FRUIT                      |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | KANTOR PEMERINTAHAN<br>GOVERNMENT OFFICE              | <span style="border: 1px solid black; padding: 2px;"> </span> | KELAPA<br>COCONUT FIELD                            |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | KANTOR POLISI<br>POLICE OFFICE                        | <span style="border: 1px solid black; padding: 2px;"> </span> | KARET<br>RUBBER FIELD                              |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | KANTOR POS<br>POST OFFICE                             | <span style="border: 1px solid black; padding: 2px;"> </span> | LADA<br>PEPPER FIELD                               |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | SEKOLAH<br>SCHOOL                                     | <span style="border: 1px solid black; padding: 2px;"> </span> | HUTAN BELUKAR<br>FOREST                            |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | RUMAH SAKIT<br>HOSPITAL                               | <span style="border: 1px solid black; padding: 2px;"> </span> | ALANG-ALANG<br>GRASS                               |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | MASJID<br>MOSQUE                                      | <span style="border: 1px solid black; padding: 2px;"> </span> | SOIL PIT   |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | GEREJA/KELENTENG<br>CHURCH                            | <span style="border: 1px solid black; padding: 2px;"> </span> | <b>PERAIRAN</b>                                    |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | PABRIK<br>FACTORY                                     | <span style="border: 1px solid black; padding: 2px;"> </span> | ARAH ALIR<br>DISCHARGE DIRECTLY                    |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | PUSAT LISTRIK<br>TEKANA AIR<br>HYDRO POWER STATION    | <span style="border: 1px solid black; padding: 2px;"> </span> | SUNGAI DAN AMAK SUNGAI<br>RIVER & TRIBUTARY        |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | PASAR<br>MARKET                                       | <span style="border: 1px solid black; padding: 2px;"> </span> | SALURAN AIR<br>CANAL                               |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | TEMPAT POMPA AIR<br>WATER PUMP STATION                | <span style="border: 1px solid black; padding: 2px;"> </span> | TALUD<br>LEVEE                                     |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | <b>JALAN</b>  | <span style="border: 1px solid black; padding: 2px;"> </span> | BENDUNGAN<br>WEIR                                  |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | JALAN > 2 m   | <span style="border: 1px solid black; padding: 2px;"> </span> | PINTU AIR<br>GATE WEIR                             |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | JALAN 1 - 2 m   | <span style="border: 1px solid black; padding: 2px;"> </span> | RAWA<br>SWAMP                                      |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | JALAN SETAPAK<br>JETTY ROAD                           | <span style="border: 1px solid black; padding: 2px;"> </span> | <b>RELIEF</b>                                      |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | JALAN SEDIKIT<br>DIBANGUN<br>UNDER CONSTRUCTION ROAD  | <span style="border: 1px solid black; padding: 2px;"> </span> | GARIS SAMA TINGGI<br>CONTOUR                       |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | BAGIAN JALAN GALIAN                                   | <span style="border: 1px solid black; padding: 2px;"> </span> | INDEKS GARIS SAMA TINGGI<br>INDEX CONTOUR          |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | BAGIAN JALAN TIMBUNAN                                 | <span style="border: 1px solid black; padding: 2px;"> </span> | CEFF OR ESCARPMENT                                 |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | JEMBATAN BATU/RESI<br>STONE/STEEL BRIDGE              | <span style="border: 1px solid black; padding: 2px;"> </span> | SURSA CURAM  |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | JEMBATAN BAMBU<br>BAMBOO BRIDGE                       | <span style="border: 1px solid black; padding: 2px;"> </span> | GARIS SAMA TINGGI DEPRESI                          |
| <span style="border: 1px solid black; padding: 2px;">□</span>                     | GORONG-GORONG<br>SEWERAGE CULVERT                     | <span style="border: 1px solid black; padding: 2px;"> </span> | TERANG BERSATU                                     |
|   |   | <span style="border: 1px solid black; padding: 2px;"> </span> | LESIHO TERANG                                      |

SCALE / SKALA

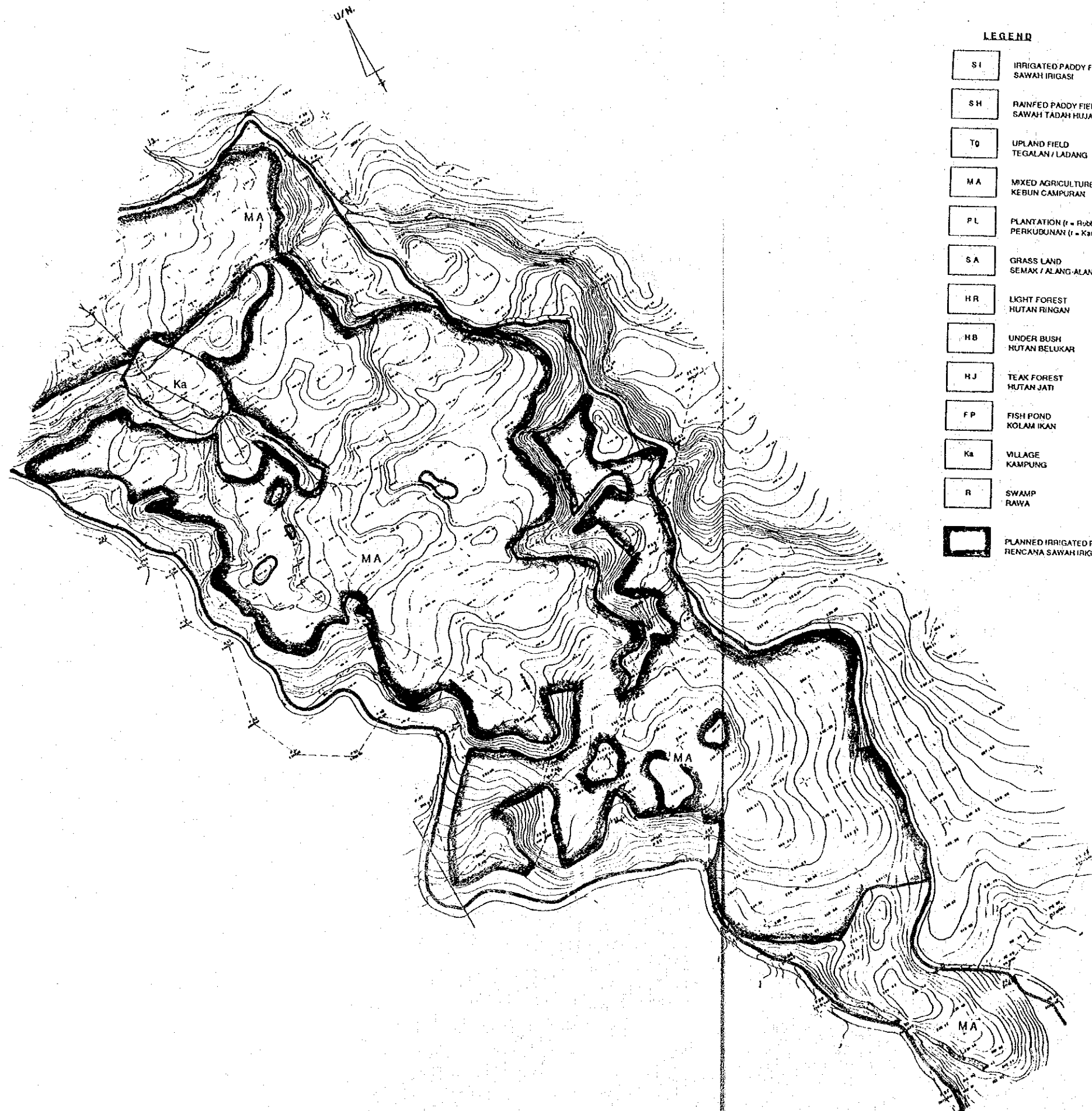


REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE  
DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

**LAND USE MAP**

SCHEME: DANAR JENOKANU (1/2) PROVINCE: WEST NUSA TENGGARA

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA) DWG. NO. 70



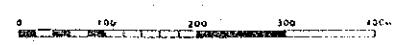
**LEGEND**

- SI IRRIGATED PADDY FIELD  
SAWAH IRIGASI
- SH RAINFED PADDY FIELD  
SAWAH TADAH HUJAH
- T0 UPLAND FIELD  
TEGALAN / LADANG
- MA MIXED AGRICULTURE  
KEBUN CAMPURAN
- PL PLANTATION (r = Rubber, cp = Oil Palm)  
PERKUBUNAN (r = Karet, cp = Kelapa Sawit)
- SA GRASS LAND  
SEMAK / ALANG-ALANG
- HR LIGHT FOREST  
HUTAN RINGAN
- HB UNDER BUSH  
HUTAN BELUKAR
- HJ TEAK FOREST  
HUTAN JATI
- FP FISH POND  
KOLAM IKAN
- Ka VILLAGE  
KAMPUNG
- R SWAMP  
RAWA
- PLANNED IRRIGATED PADDY FIELD  
RENCANA SAWAH IRIGASI

**LEGENDA  
LEGEND**

- |   |  |   |   |
|---|--|---|---|
| <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">O</span> | TIK IKAT KOORDINAT<br>(X, Y) DAN IP<br>SPOT HEIGHT | <span style="border: 1px solid black; padding: 2px;"> </span>   | PLANTATION<br>BATAS TUMBUHAN<br>BOUNDARY PLANTATION |
| <span style="border: 1px solid black; padding: 2px;">SM</span>                    | TIK KETIDAK<br>BENC MARK                           | <span style="border: 1px solid black; padding: 2px;"> </span>   | SAWAH<br>PADDY FIELD                                |
| <b>BANGUNAN<br/>STRUCTURE</b>   |  | <span style="border: 1px solid black; padding: 2px;">L</span>   | LADANG/KEBUN<br>UPLAND FIELD                        |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | RUMAH<br>HOUSING                                   | <span style="border: 1px solid black; padding: 2px;">o o</span> | BUAH-BUAHAN<br>FIELD OF FRUIT                       |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | KANTOR PEMERINTAHAN<br>GOVERNMENT OFFICE           | <span style="border: 1px solid black; padding: 2px;">L</span>   | KELEPA<br>COCONUT FIELD                             |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | KANTOR POLSI<br>POLICE OFFICE                      | <span style="border: 1px solid black; padding: 2px;">L</span>   | KAREP<br>RUBBER FIELD                               |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | KANTOR POS<br>POST OFFICE                          | <span style="border: 1px solid black; padding: 2px;">Y</span>   | LADA<br>PEPPER FIELD                                |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | SEKOLAH<br>SCHOOL                                  | <span style="border: 1px solid black; padding: 2px;">o</span>   | HUTAN BELUKAR<br>FOREST                             |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | RUMAH SAKIT<br>HOSPITAL                            | <span style="border: 1px solid black; padding: 2px;">v v</span> | ALANG-ALANG<br>GRASS                                |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | MASJID<br>MOSQUE                                   | <span style="border: 1px solid black; padding: 2px;">x</span>   | SOIL PIT  |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | GEREJA/KELENTENG<br>CHURCH                         | <b>PERAIRAN</b>   |   |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | PABRIK<br>FACTORY                                  | <span style="border: 1px solid black; padding: 2px;">~</span>   | ARAH ARUS<br>DISCHARGE DIRECTLY                     |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | PUSAT LISTRIK<br>TERAGA AIR<br>HYDRO POWER STATION | <span style="border: 1px solid black; padding: 2px;">~</span>   | SUNGAI DAN ANAK SUNGAI<br>RIVER & TRIBUTARY         |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | PASAR<br>MARKET                                    | <span style="border: 1px solid black; padding: 2px;">~</span>   | SALURAN AIR<br>CANAL                                |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | TEMPAT POMPA AIR<br>WATER PUMP STATION             | <span style="border: 1px solid black; padding: 2px;">~</span>   | TALUD<br>LEVEE                                      |
| <b>JALAN</b>  |  | <span style="border: 1px solid black; padding: 2px;">~</span>   | RENDUNGAN<br>WEIR                                   |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | JALAN > 2 m  | <span style="border: 1px solid black; padding: 2px;">~</span>   | PORU AIR<br>GATE WEIR                               |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | JALAN 1 - 2 m                                      | <span style="border: 1px solid black; padding: 2px;">[ ]</span> | RAWA<br>SWAMP                                       |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | JALAN SETAPAK<br>JETTY ROAD                        | <b>RELIEF</b>   |   |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | JALAN SEDANG DIBANGUN<br>UNDER CONSTRUCTION ROAD   | <span style="border: 1px solid black; padding: 2px;">~</span>   | GARIS SAMA TINGGI<br>CONTOUR                        |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | BAGIAN JALAN GALIAN                                | <span style="border: 1px solid black; padding: 2px;">~</span>   | INDEX GARIS SAMA TINGGI<br>INDEX CONTOUR            |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | BAGIAN JALAN TIMBUHAN                              | <span style="border: 1px solid black; padding: 2px;">~</span>   | CHEFF OR ESCARPMENT                                 |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | JEMBATAN BATO/BESI<br>STONE/STEEL BRIDGE           | <span style="border: 1px solid black; padding: 2px;">~</span>   | SUSUR CURAM   |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | JEMBATAN BAMBU<br>BAMBOO BRIDGE                    | <span style="border: 1px solid black; padding: 2px;">~</span>   | GARIS SAMA TINGGI DEPRESI                           |
| <span style="border: 1px solid black; padding: 2px;">[ ]</span>                   | GORONG-GORONG PEMBUANG<br>SEWERAGE CULVERT         | <span style="border: 1px solid black; padding: 2px;">~</span>   | TERING BERBATU                                      |
|   |  | <span style="border: 1px solid black; padding: 2px;">~</span>   | LELENG TERINGGI                                     |

SCALE / SKALA



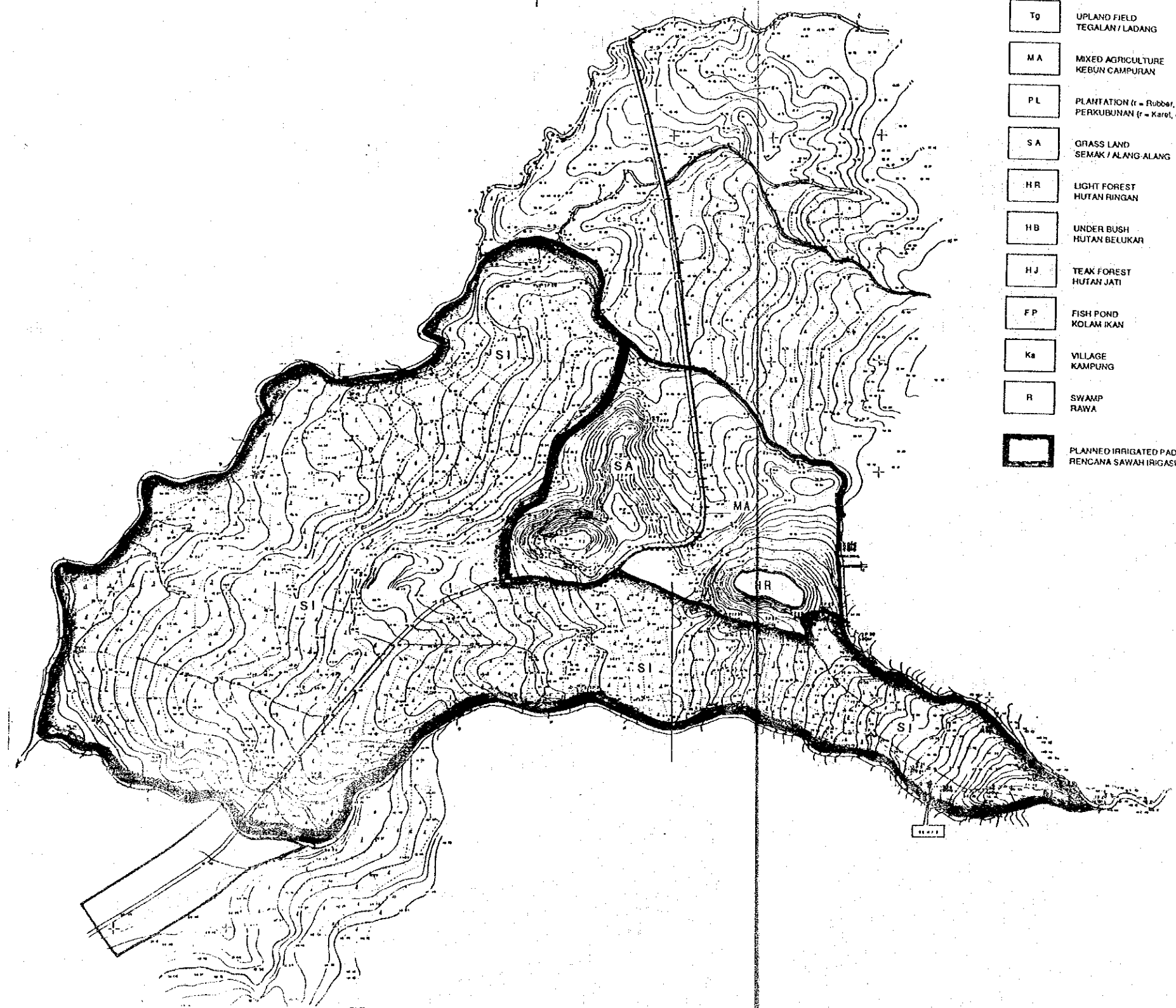
REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE  
DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

**LAND USE MAP**

SCHEME : DANAR JENGGANG (2/2) PROVINCE : WEST NUSA TENGGARA

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA)

DWG. NO.  
71



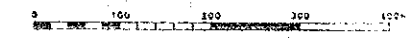
**LEGEND**

- SI IRRIGATED PADDY FIELD SAWAH IRIGASI
- SH RAINFED PADDY FIELD SAWAH TADAH HUJAN
- Tg UPLAND FIELD TEGALAN / LADANG
- MA MIXED AGRICULTURE KEBUN CAMPURAN
- PL PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawit)
- SA GRASS LAND SEMAK / ALANG-ALANG
- HR LIGHT FOREST HUTAN RINGAN
- HB UNDER BUSH HUTAN BELUKAR
- HJ TEAK FOREST HUTAN JATI
- FP FISH POND KOLAM IKAN
- Ka VILLAGE KAMPUNG
- R SWAMP RAWA
- Planned Irrigated Paddy Field RENCANA SAWAH IRIGASI

**LEGENDA  
LEGEND**

- COORDINATE POINT**
  - Titik Titik Koordinat (E, S) dan H Spot Height
  - Titik Kesinggungan Benih Mark
- BANGUNAN STRUCTURE**
  - RUMAH HOUSING
  - KANTOR PEMERINTAHAN GOVERNMENT OFFICE
  - KANTOR POLISI POLICE OFFICE
  - KANTOR POS POST OFFICE
  - SEROLAN SCHOOL
  - RUMAH SAKIT HOSPITAL
  - MASJID MOSQUE
  - GEREJA/KELENTENG CHURCH
  - PABRIK FACTORY
  - PUSAT LISTRIK TENAGA AIR HYDRO POWER STATION
  - PASAR MARKET
  - TEMPAT POMPA AIR WATER PUMP STATION
- JALAN**
  - JALAN > 2 m
  - JALAN 1 - 2 m
  - JALAN SETAPAK JETTY ROAD
  - JALAN SEDANG DIRANGUN UNDER CONSTRUCTION ROAD
  - BAGIAN JALAN GALLIAN
  - BAGIAN JALAN TIMBUNAN
  - JEMBATAN BATU/SESI STONE/STEEL BRIDGE
  - JEMBATAN BAMBU BAMBOO BRIDGE
  - GORONG-GORONG PEMBANGUN SEWERAGE CULVERT
- PLANTATION**
  - BATAS TIMBUNAN BOUNDARY PLANTATION
  - SAWAH PADDY FIELD
  - LADANG/KEBUN UPLAND FIELD
  - BUAH-BUAHAN FIELD OF FRUIT
  - KELAPA COCONUT FIELD
  - KARET RUBBER FIELD
  - LADA PEPPER FIELD
  - HUTAN BELUKAR FOREST
  - ALANG-ALANG GRASS
  - SOIL PIT
- PERAIRAN**
  - ARAH ARUS DISCHARGE DIRECTLY
  - SUNGAI DAN ANAK SUNGAI RIVER & TRIBUTARY
  - SALURAN AIR CANAL
  - TALUD LEVEE
  - BEHOUNGAN WEIR
  - PINTU AIR GATE WEIR
  - RAWA SWAP
- RELIEF**
  - GARIS SAMA TINGGI CONTOUR
  - INDEKS GARIS SAMA TINGGI INDEX CONTOUR
  - CEFF OR ESCARPMENT
  - SUSUR CURAM
  - GARIS SAMA TINGGI DEPRESI
  - TERING BEREATU
  - LENGSUNG TERASOSI

**SCALE / SKALA**



REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE  
 DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
**FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT**  
 IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
 AT FARM LEVEL

**LAND USE MAP**

SCHEME: **MADA MANNI** PROVINCE: **WEST NUSA TENGGARA**

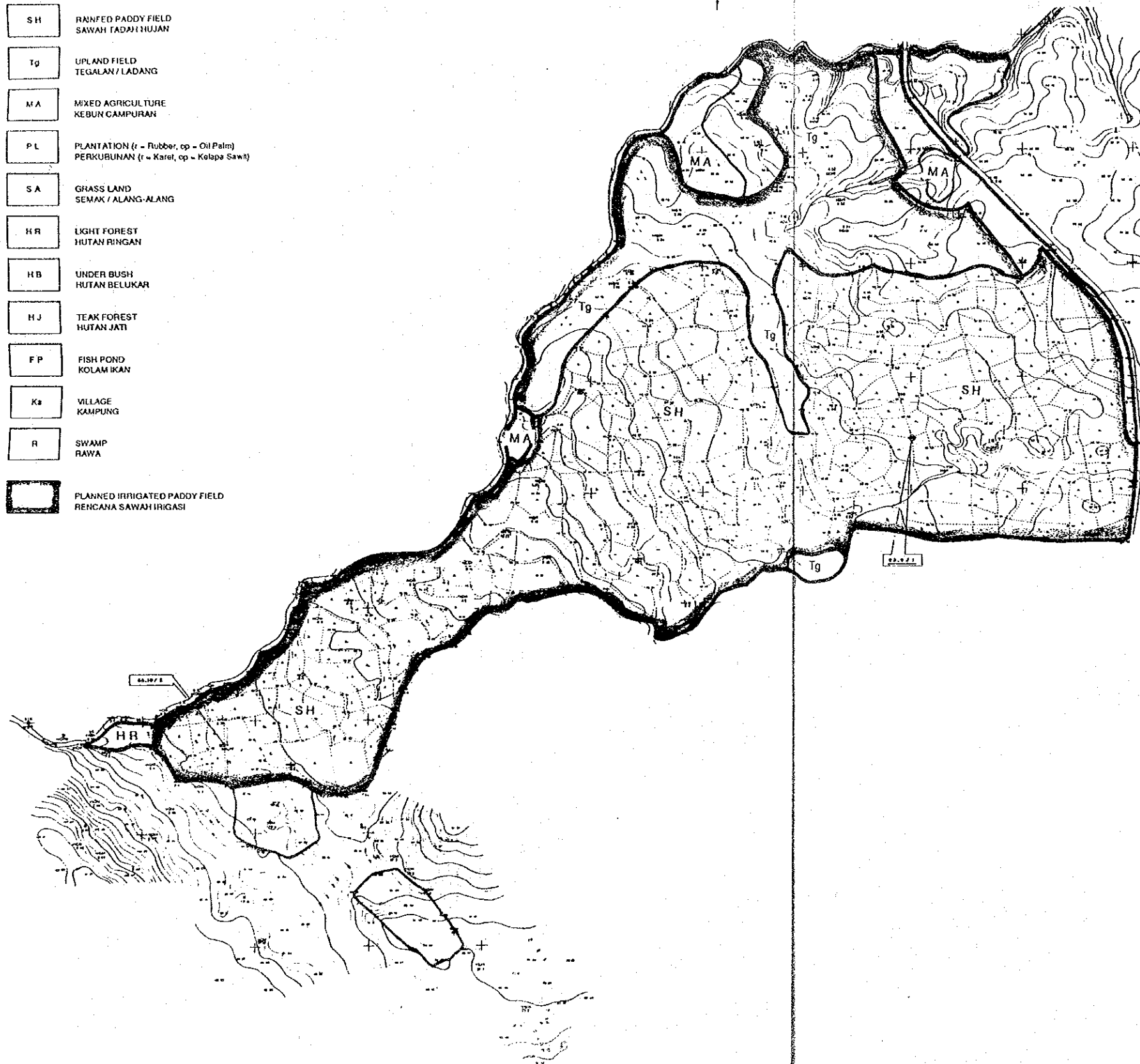
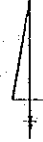
JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO (JICA)

DWG. NO. **72**

**LEGEND**

SI	IRRIGATED PADDY FIELD SAWAH IRIGASI
SH	RAINFED PADDY FIELD SAWAH TADAH HUJAN
Tg	UPLAND FIELD TEGALAN / LADANG
MA	MIXED AGRICULTURE KEBUN CAMPURAN
PL	PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawit)
SA	GRASS LAND SEMAK / ALANG-ALANG
HR	LIGHT FOREST HUTAN RINGAN
HB	UNDER BUSH HUTAN BELUKAR
HJ	TEAK FOREST HUTAN JATI
FP	FISH POND KOLAM IKAN
Ka	VILLAGE KAMPUNG
R	SWAMP RAWA
	PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

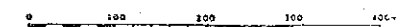
U/N.



**LEGENDA  
LEGEND**

	TIKOK BENTANG BENCH MARK		BATAS TUMBUHAN BOUNDARY PLANTATION
	TIKOK BENTANG BENCH MARK		SAWAH PADDY FIELD
	TIKOK BENTANG BENCH MARK		LADANG/KEBUN UPLAND FIELD
	TIKOK BENTANG BENCH MARK		BUAH-BUAHAN FIELD OF FRUIT
	TIKOK BENTANG BENCH MARK		KELAPA COCONUT FIELD
	TIKOK BENTANG BENCH MARK		KARET RUBBER FIELD
	TIKOK BENTANG BENCH MARK		LADA PEPPER FIELD
	TIKOK BENTANG BENCH MARK		HUTAN BELUKAR FOREST
	TIKOK BENTANG BENCH MARK		ALANG-ALANG GRASS
	TIKOK BENTANG BENCH MARK		TOIL PIT
	TIKOK BENTANG BENCH MARK		PERAIRAN
	TIKOK BENTANG BENCH MARK		ARAH ARUS DISCHARGE DIRECTLY
	TIKOK BENTANG BENCH MARK		SUNGAI DAN ANAK SUNGAI RIVER & TRIBUTARY
	TIKOK BENTANG BENCH MARK		SALURAN AIR CANAL
	TIKOK BENTANG BENCH MARK		TALUD LEVEE
	TIKOK BENTANG BENCH MARK		BENDUNGAN WEIR
	TIKOK BENTANG BENCH MARK		PINTU AIR GATE WEIR
	TIKOK BENTANG BENCH MARK		RAWA SWAMP
	TIKOK BENTANG BENCH MARK		RELIEF
	TIKOK BENTANG BENCH MARK		GARIS SAMA TINGGI CONTOUR
	TIKOK BENTANG BENCH MARK		INDEKS GARIS SAMA TINGGI INDEX CONTOUR
	TIKOK BENTANG BENCH MARK		CEFF OR ESCARPMENT
	TIKOK BENTANG BENCH MARK		SUSUR CURAM
	TIKOK BENTANG BENCH MARK		GARIS SAMA TINGGI DEPRESI
	TIKOK BENTANG BENCH MARK		TERBING BERBATU
	TIKOK BENTANG BENCH MARK		LERENG TEROSI

SCALE / SKALA



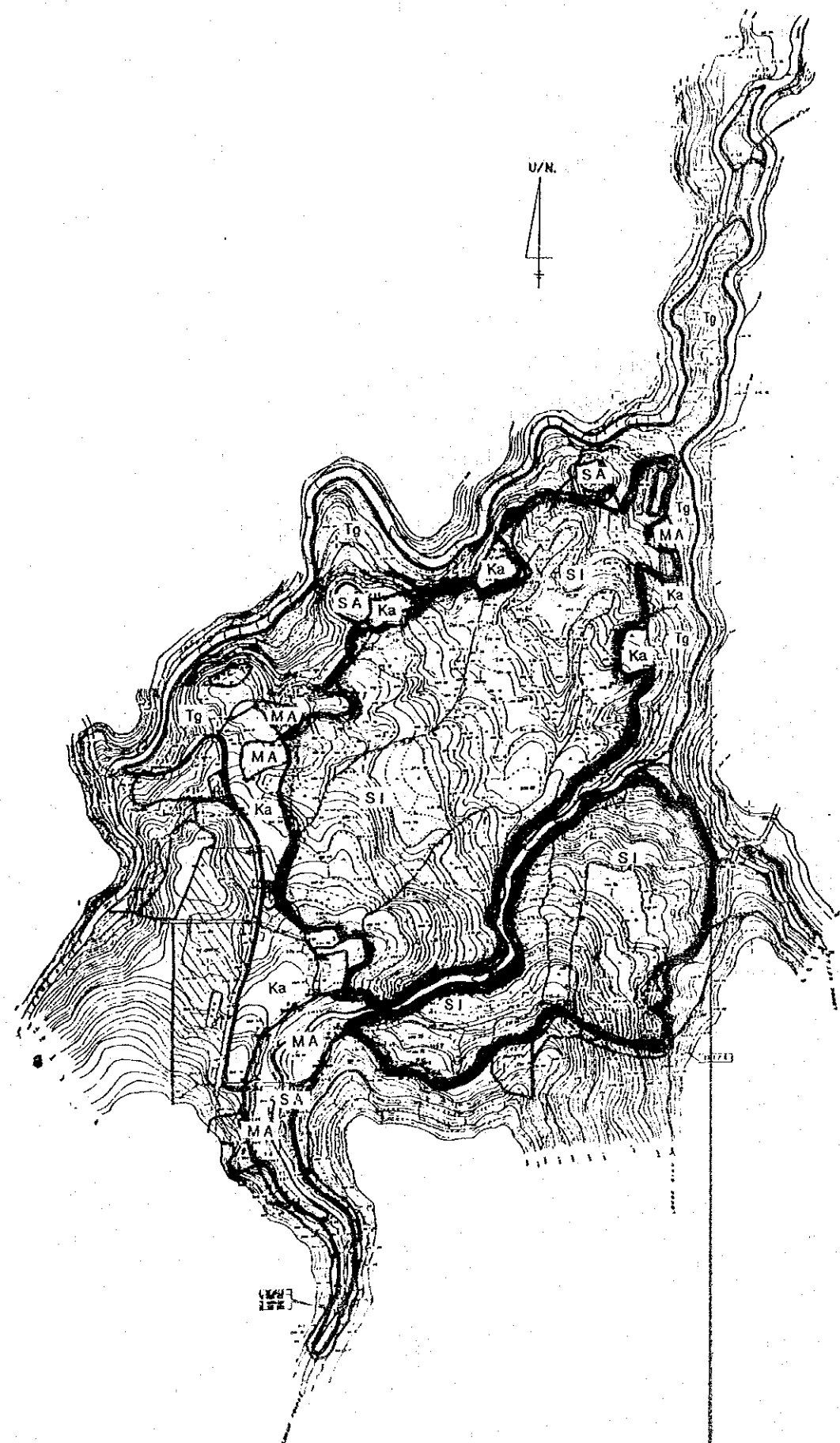
REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE  
DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

**LAND USE MAP**

SCHEME UMA LABANG PROVINCE: WEST NUSA TENGGARA

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA)

DWG. NO  
73

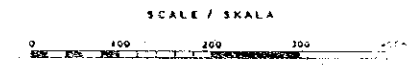


**LEGEND**

SI	IRRIGATED PADDY FIELD SAWAH IRIGASI
SH	RAINFED PADDY FIELD SAWAH TADAH HUJAN
Tg	UPLAND FIELD TEGALAN / LADANG
MA	MIXED AGRICULTURE KEBUN CAMPURAN
PL	PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawit)
SA	GRASS LAND SEMAK / ALANG-ALANG
HR	LIGHT FOREST HUTAN RINGAN
HB	UNDER BUSH HUTAN BELUKAR
HJ	TEAK FOREST HUTAN JATI
FP	FISH POND KOLAM IKAN
Ka	VILLAGE KAMPUNG
R	SWAMP RAWA
	PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

**LEGENDA  
LEGEND**

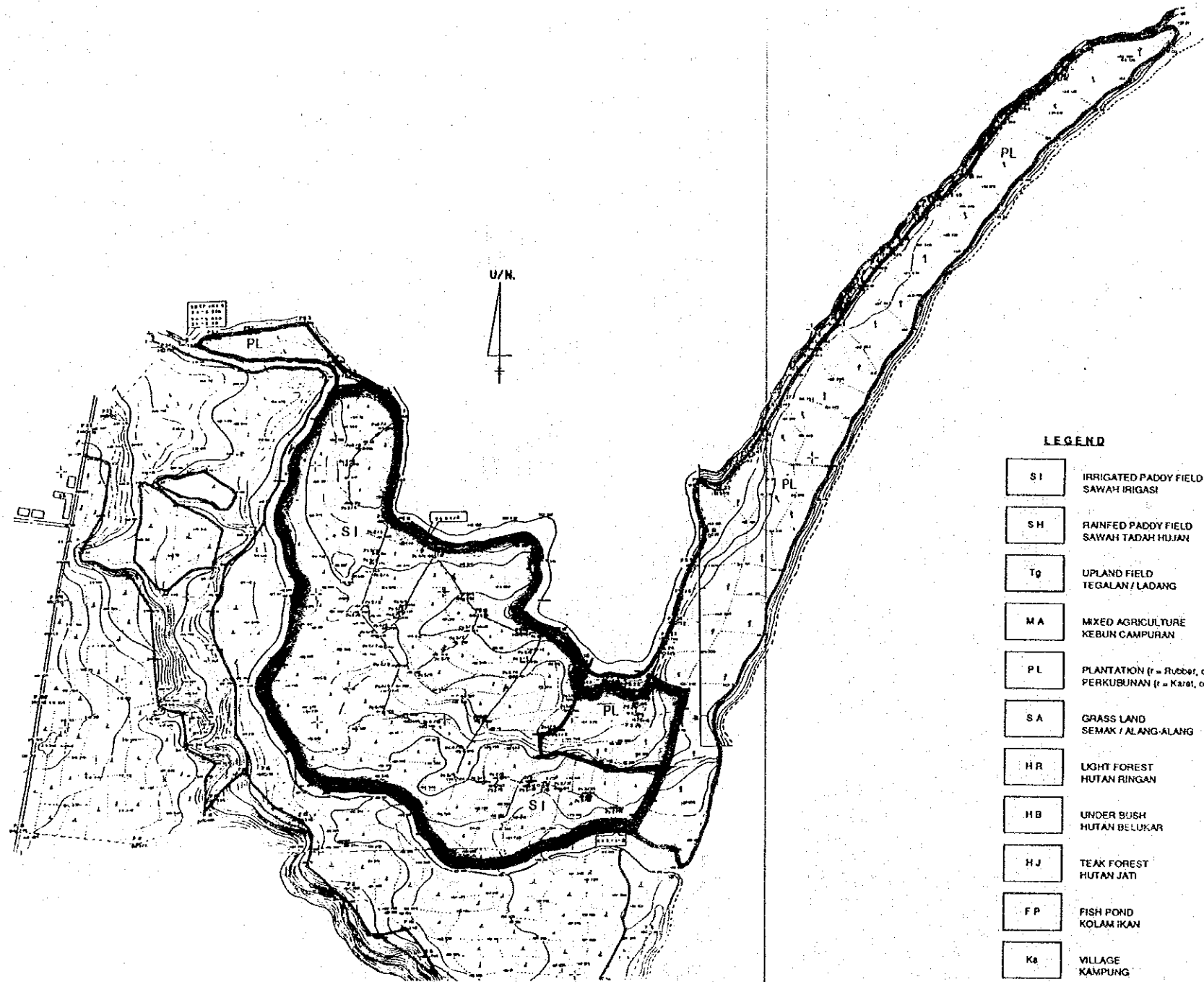
COORDINATE POINT		PLANTATION	
	TIKOK INAT KOORDINAT (X, Y) DAN 10 SPOT HEIGHT		BATAS TIMBUKAN BOUNDARY PLANTATION
	TIKOK KETINGGIAN BENCH MARK		SAWAH PADDY FIELD
<b>BANGUNAN STRUCTURE</b>			LADANG/KEBUN UPLAND FIELD
	RUMAH HOUSING		BUAH-BUAHAN FIELD OF FRUIT
	KANTOR PEMERINTAHAN GOVERNMENT OFFICE		XELAPA COCONUT FIELD
	KANTOR POLISI POLICE OFFICE		KARET RUBBER FIELD
	KANTOR POS POST OFFICE		LADA PEPPER FIELD
	SEKOLAH SCHOOL		HUTAN BELUKAR FOREST
	RUMAH SAKIT HOSPITAL		ALANG-ALANG GRASS
	MASJID MOSQUE		SOIL PIT
	GEREJA/KELENTENG CHURCH	<b>PERAIRAN</b>	
	PABRIK FACTORY		ARAH ARUS DIRECTION OF CURRENT
	PUSAT LISTRIK TENAGA AIR HYDRO POWER STATION		SUNGAI DAN ANAK SUNGAI RIVER & TRIBUTARY
	PASAR MARKET		SALURAN AIR CANAL
	TEMPAT POMPA AIR WATER PUMP STATION		TALUD LEVEE
<b>JALAN</b>			BENDUNGAN WEIR
	JALAN > 2 m		PINTU AIR GATE WEIR
	JALAN 1 - 2 m		RAWA SWAMP
	JALAN SETAPAK JETTY ROAD	<b>RELIEF</b>	
	JALAN SEDANG DIBANGUN UNDER CONSTRUCTION ROAD		GARIS SAMA TINGGI CONTOUR
	BAGIAN JALAN GALAK		INDENS GARIS SAMA TINGGI INDEX CONTOUR
	BAGIAN JALAN TIMBUKAN		CEFF OR ESCARPMENT
	JEMBATAN BATU/SESI STONE/STEEL BRIDGE		SUSUR CURAM
	JEMBATAN BAMBU BAMBOO BRIDGE		GARIS SAMA TINGGI DEPRESI
	GORONG-GORONG PEMBUANG SEWERAGE CULVERT		TERING BERBATU
			LERENG TERBOSI



REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE  
DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

**LAND USE MAP**  
SCHEME: LOKOK TRIPAS PROVINCE: WEST NUSA TENGGARA

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA) DWG. NO 74

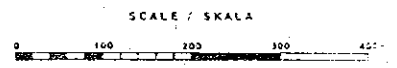


**LEGEND**

SI	IRRIGATED PADDY FIELD SAWAH IRIGASI
SH	RAINFED PADDY FIELD SAWAH TADAH HUJAH
Tg	UPLAND FIELD TEGALAN / LADANG
MA	MIXED AGRICULTURE KEBUN CAMPURAN
PL	PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawit)
SA	GRASS LAND SEMAK / ALANG-ALANG
HR	LIGHT FOREST HUTAN RINGAN
HB	UNDER BUSH HUTAN BELUKAR
HJ	TEAK FOREST HUTAN JATI
FP	FISH POND KOLAM IKAN
Ka	VILLAGE KAMPUNG
R	SWAMP RAWA
	PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

**LEGENDA  
LEGEND**

	TITIK IKAT KOORDINAT (U.T.) DAN IP EPOI HEIGHT		PLANTATION BATAS TUMBUHAN BOUNDARY PLANTATION
	TITIK KETINGGIAN BENCH MARK		SAWAH PADDY FIELD
<b>BANGUNAN STRUCTURE</b>			LADANG/KEBUH UPLAND FIELD
	RUMAH HOUSING		BUSH-BUAHAN FIELD OF FRUIT
	KANTOR PEMERINTAHAN GOVERNMENT OFFICE		KELAPA COCONUT FIELD
	KANTOR POLISI POLICE OFFICE		KARET RUBBER FIELD
	KANTOR POS POST OFFICE		LADA PEPPER FIELD
	SEKOLAH SCHOOL		HUTAN BELUKAR FOREST
	RUMAH SAKIT HOSPITAL		ALANG-ALANG GRASS
	MASJID MOSQUE		SOIL PIT
	CEREA/RELEMTENO CHURCH	<b>PERAIRAN</b>	
	PABRIK FACTORY		ARAH ARUS DISCHARGE DIRECTION
	PUSAT LISTRIK TENAGA AIR HYDRO POWER STATION		SUNGAI DAN ANAK SUNGAI RIVER & TRIBUTARY
	PASAR MARKET		SALURAN AIR CANAL
	TEMPAT POMPA AIR WATER PUMP STATION		TALUD LEVEE
<b>JALAN</b>			BENDUNGAN WEIR
	JALAN > 2 m		PINTU AIR GATE WEIR
	JALAN 1 - 2 m		RAWA SWAMP
	JALAN SETAPAN JETTY ROAD	<b>RELIEF</b>	
	JALAN SEDANG DIBANGUN UNDER CONSTRUCTION ROAD		GARIS SAMA TINGGI CONTOUR
	BAGIAN JALAN GALIAN		INDEX GARIS SAMA TINGGI INDEX CONTOUR
	BAGIAN JALAN TIRUBUNAN		CULVERT OR ESCARPMENT
	JEMBATAN BATU/BESE STONE/STEEL BRIDGE		SUSUR CULRAM
	JEMBATAN BAMBU BAMBOO BRIDGE		GARIS SAMA TINGGI DEPRESSI
	GORONG-GORONG PEMBUANG SEWERAGE CULVERT		TERING BERBATU
			LELENG TERAKSI



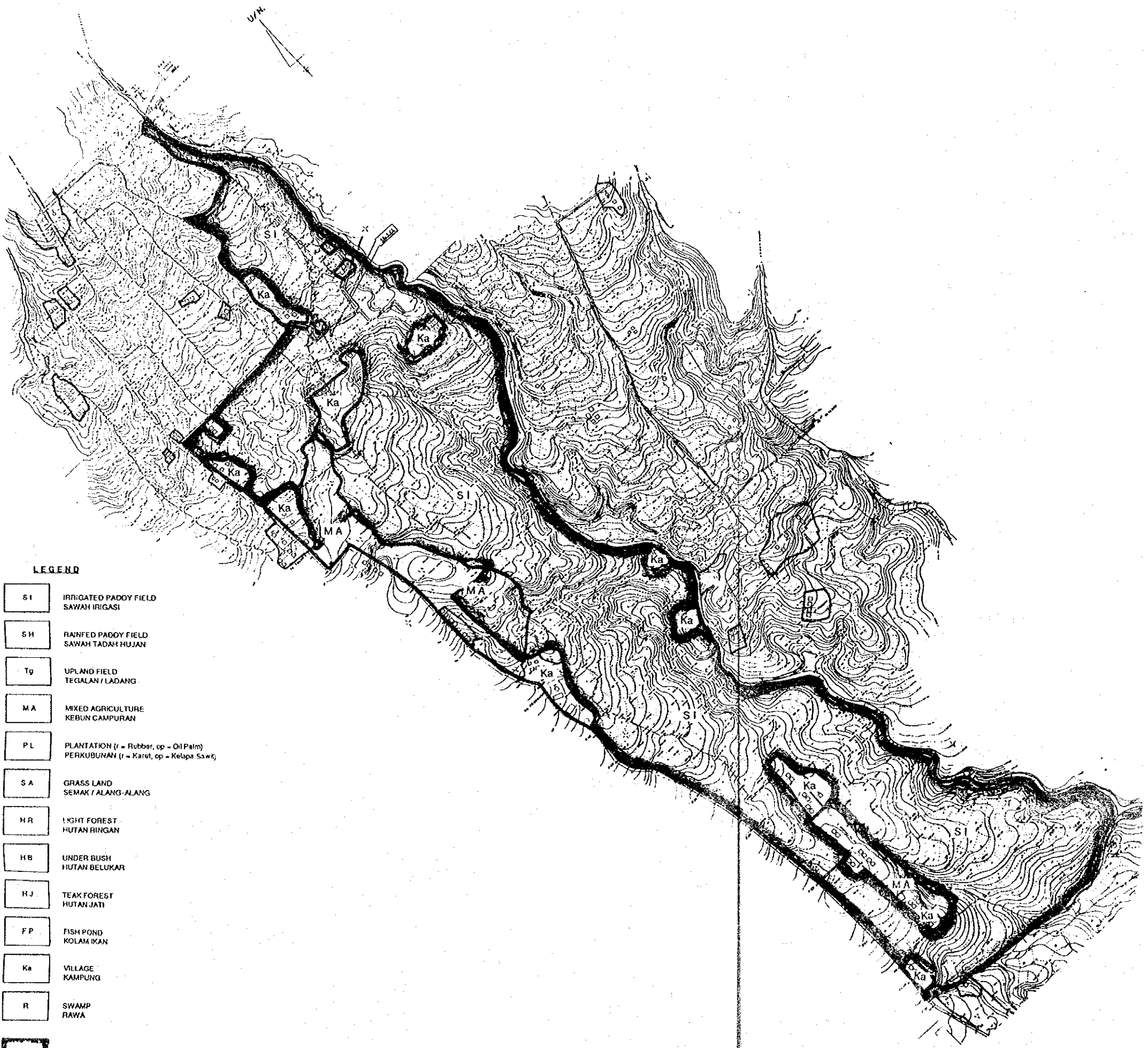
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DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

**LAND USE MAP**

SCHEME : LENGKOK DUDU      PROVINCE : WEST NUSA TENGGARA

JAPAN INTERNATIONAL COOPERATION AGENCY      DWG. NO. 75  
TOKYO (JICA)





**LEGEND**

SI	IRRIGATED PADDY FIELD SAWAH IRIGASI
SH	RAINFED PADDY FIELD SAWAH TADAH HUJAN
Tg	UPLAND FIELD TEGALAN / LADANG
MA	MIXED AGRICULTURE KEBUN CAMPURAN
PL	PLANTATION (r = Rubber, cp = Oil Palm) PERKUBUNAN (r = Karut, cp = Kelapa Sawit)
SA	GRASS LAND SEMAK / ALANG-ALANG
HR	LIGHT FOREST HUTAN RINGAN
HB	UNDER BUSH HUTAN BELUKAR
HJ	TEAK FOREST HUTAN JATI
FP	FISH POND KOLAM IKAN
Ka	VILLAGE KAMPUNG
R	SWAMP RAWA
	PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

**LEGENDA  
LEGEND**

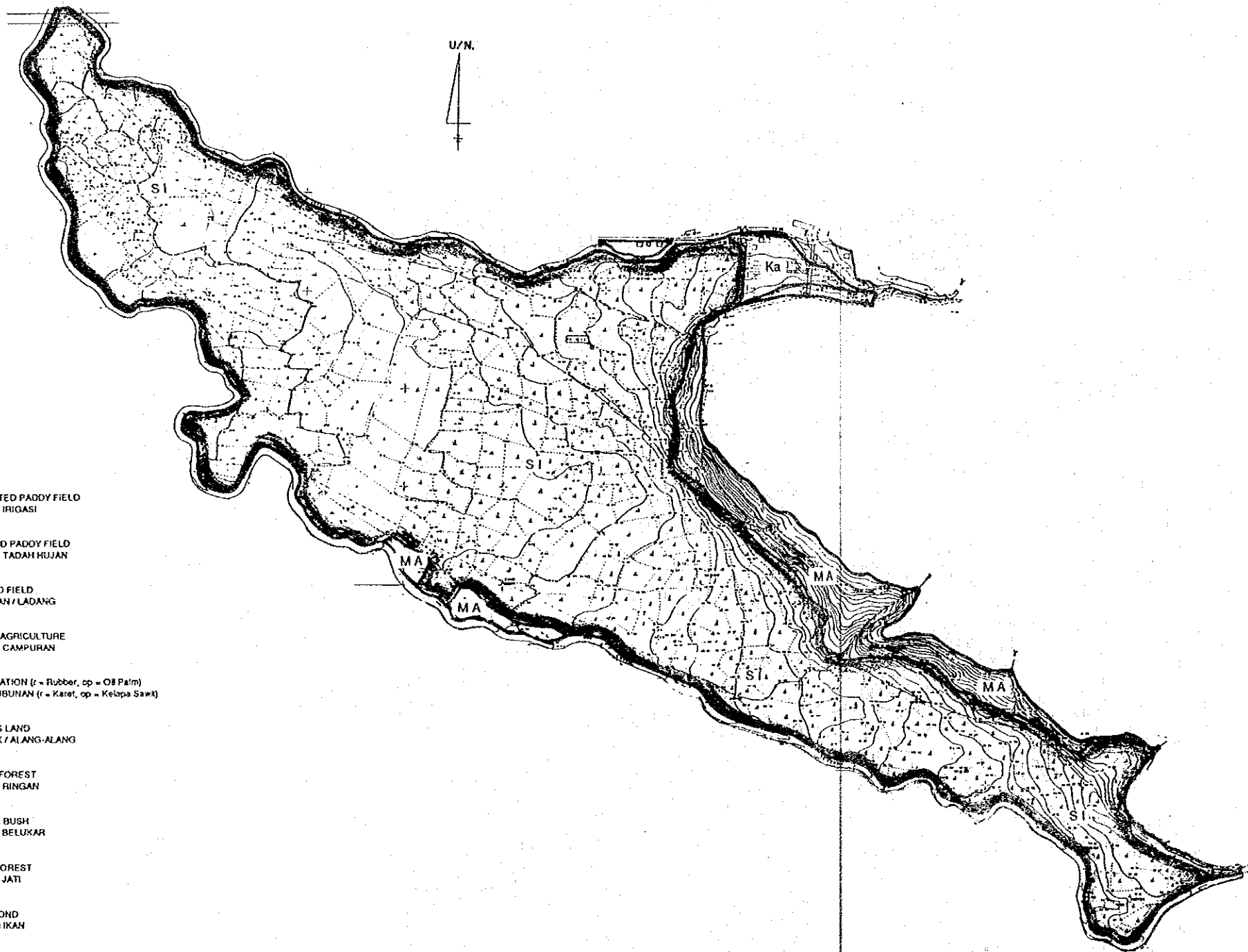
COORDINATE POINT	BANGUNAN STRUCTURE	PLANTATION
	TIKOK IKAT KOORDINAT (E, N) DAN UP SPOT HEIGHT	BAFAS TAMBUNAN BOUNDARY PLANTATION
	BILIK KETINGGALAN BENCH MARK	SAWAH PADDY FIELD
	RUMAH HOUSING	LADANG/KEBUN UPLAND FIELD
	KANTOR PEMERINTAHAN GOVERNMENT OFFICE	BUAH-BUAHAN FIELD OF FRUIT
	KANTOR POLISI POLICE OFFICE	KELAPA COCONUT FIELD
	KANTOR POS POST OFFICE	KARET RUBBER FIELD
	BENGKOH SCHOOL	LADA PEPPER FIELD
	RUMAH SAKIT HOSPITAL	HUTAN BELUKAR FOREST
	MASJID MOSQUE	ALANG-ALANG GRASS
	GEREJA/KELEMENDO CHURCH	BOIL PIT
	PABRIK FACTORY	PERAIRAN
	PUSAT LISTRIK TENAGA AIR HYDRO POWER STATION	ARAH ARUS DISCHARGE DIRECTLY
	PASAR MARKET	SUNGAI DAN ANAK SUNGAI RIVER & TRIBUTARY
	TENPAT POMPA AIR WATER PUMP STATION	SALUKAN AIR CANAL
	JALAN JALAN > 2 m	TALUD LEVEE
	JALAN 1 - 2 m	BENDUNGAN WEIR
	JALAN SETAPAK JETTY ROAD	PINTU AIR GATE WEIR
	JALAN SEdANG DIBANGUN UNDER CONSTRUCTION ROAD	RAWA SWAMP
	BAGIAN JALAN GALIAN	RELIEF
	BAGIAN JALAN TAMBUNAN	GARIS SAMA TINGGI CONTOUR
	JEMBATAN BATO/BEESI STONE/STEEL BRIDGE	INDEKS GARIS SAMA TINGGI INDEX CONTOUR
	JEMBATAN BAMBU BAMBOO BRIDGE	CERIT OR ESCARPMENT
	GORONG-GORONG PEMBUANG SEWERAGE CULVERT	SUSUR CURAM
		GARIS SAMA TINGGI DEFECTI
		TERING BERBATU
		LERENG TEROSI



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AT FARM LEVEL

LAND USE MAP  
SCHEME: KELOKOS UDANG PROVINCE: WEST NUSA TENGGARA

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA) OWG. NO. 76



**LEGENDA  
LEGEND**

COORDINATE POINT		PLANTATION	
	TITIK IKAT KOORDINAT (E, S) DAN IF SPOT HEIGHT		BATAS TUMBUHAN BOUNDARY PLANTATION
	TITIK KETINGGIAN BENCH MARK		SAWAH PADDY FIELD
<b>BANGUNAN STRUCTURE</b>			LADANG/KEBUN UPLAND FIELD
	RUMAH HOUSING		BUAH-BUAHAN FIELD OF FRUIT
	KANTOR PEMERINTAHAN GOVERNMENT OFFICE		NELAPA COCONUT FIELD
	KANTOR POLISI POLICE OFFICE		KARET RUBBER FIELD
	KANTOR POS POST OFFICE		LADA PEPPER FIELD
	SEKOLAH SCHOOL		HUTAM BELUKAR FOREST
	RUMAH SAKIT HOSPITAL		ALANG-ALANG GRASS
	MASJID MOSQUE		SOIL PIT
	GEREJA/KELENTENG CHURCH	<b>PERAIRAN</b>	
	PABRIK FACTORY		ARAH ARUS DISCHARGE DIRECTLY
	PUSAT LISTRIK TENAGA AIR HYDRO POWER STATION		SUNGAI DAN AMAK SUNGAI RIVER & TRIBUTARY
	PASAR MARKET		SALURAN AIR CANAL
	TEMPAT POMPA AIR WATER PUMP STATION		TALUD LEVEE
<b>JALAN</b>			BENDUNGAN WEIR
	JALAN > 2 m		PINTU AIR GATE WEIR
	JALAN 1 - 2 m		RAWA SWAMP
	JALAN SETAPAK JETTTY ROAD	<b>RELIEF</b>	
	JALAN SEDANG DIBANGUN UNDER CONSTRUCTION ROAD		GARIS SAMA TINGGI CONTOUR
	BAGIAN JALAN GALIAN		INDEX GARIS SAMA TINGGI INDEX CONTOUR
	BAGIAN JALAN TUMBUHAN		CLIFF OR ESCARPMENT
	JEMBATAN BATU/SESI STONE/STEEL BRIDGE		SURUR GULAM
	JEMBATAN BAMBU BAMBOO BRIDGE		GARIS SAMA TINGGI DEPRESI
	GORONG-GORONG PEMBUANG SEWERAGE CULVERT		TERING BERTATA

**LEGEND**

	IRRIGATED PADDY FIELD SAWAH IIRIGASI
	RAINFED PADDY FIELD SAWAH TADAH HUJAN
	UPLAND FIELD TEGALAN / LADANG
	MIXED AGRICULTURE KEBUN CAMPURAN
	PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawit)
	GRASS LAND SEMAK / ALANG-ALANG
	LIGHT FOREST HUTAN RINGAN
	UNDER BUSH HUTAN BELUKAR
	TEAK FOREST HUTAN JATI
	FISH POND KOLAM IKAN
	VILLAGE KAMPUNG
	SWAMP RAWA
	PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IIRIGASI

SCALE - SKALA



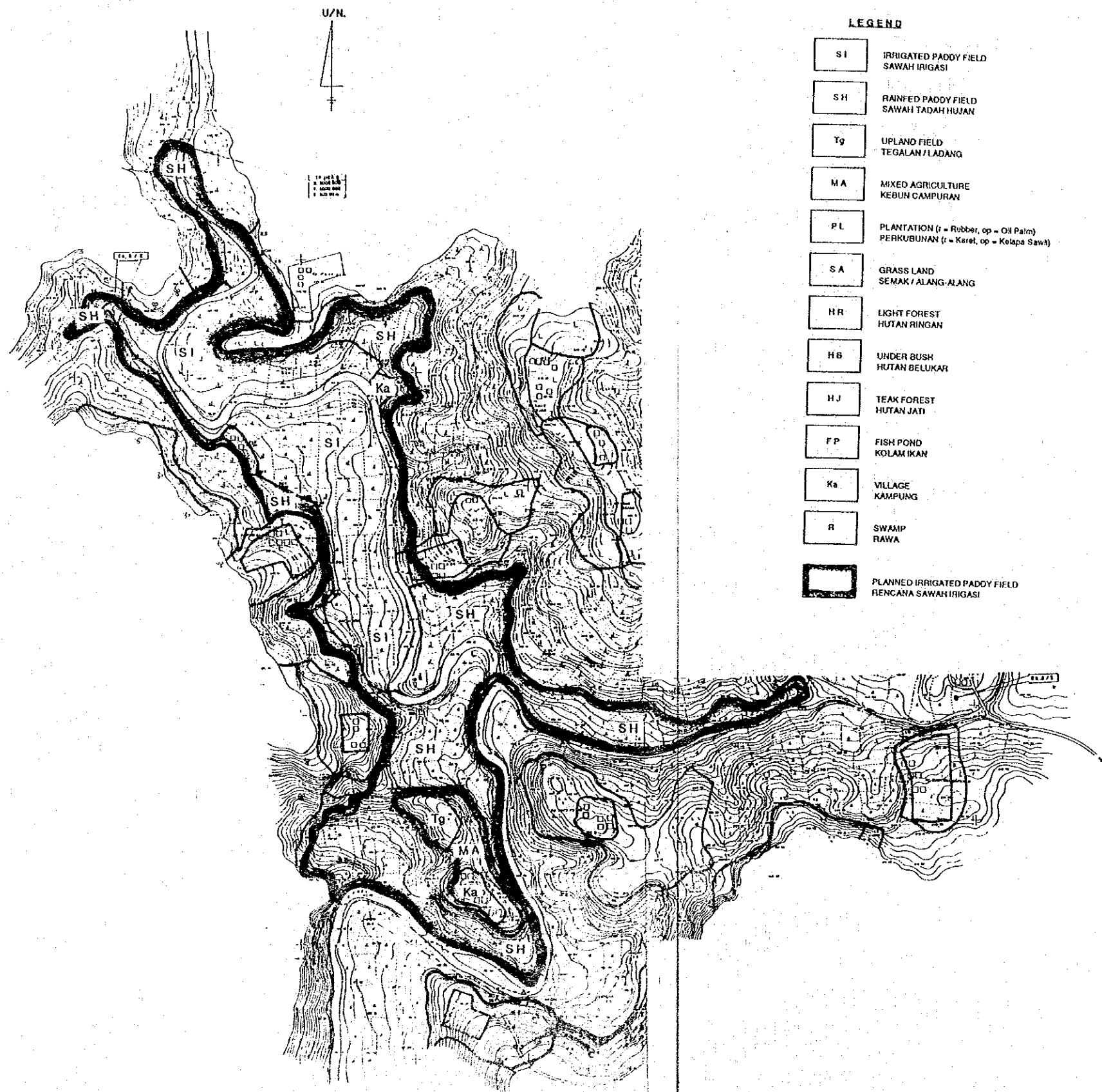
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DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

**LAND USE MAP**

SCHEME RABA BANGGA PROVINCE: WEST NUSA TENGGARA

JAPAN INTERNATIONAL COOPERATION AGENCY  
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DWG. NO  
77



U/N.



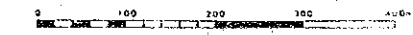
**LEGEND**

- SI IRRIGATED PADDY FIELD SAWAH IRIGASI
- SH RAINFED PADDY FIELD SAWAH TADAH HUJAN
- Tg UPLAND FIELD TEGALAN / LADANG
- MA MIXED AGRICULTURE KEBUN CAMPURAN
- PL PLANTATION (r = Rubber, op = Oil Palm) PERKUBUNAN (r = Karet, op = Kelapa Sawi)
- SA GRASS LAND SEMAK / ALANG-ALANG
- HR LIGHT FOREST HUTAN RINGAN
- HB UNDER BUSH HUTAN BELUKAR
- HJ TEAK FOREST HUTAN JATI
- FP FISH POND KOLAM IKAN
- Ka VILLAGE KAMPUNG
- R SWAMP RAWA
- PLANNED IRRIGATED PADDY FIELD RENCANA SAWAH IRIGASI

**LEGENDA  
LEGEND**

- |                           |   |                 |  |
|---------------------------|---|-----------------|--|
|                           | TITIK WAJ KOORDINAT (L.T) DAN IF SPOT HEIGHT  |                 | BATAS TUMBUHAN BOUNDARY PLANTATION       |
|                           | SITIK BETINGGAH BENCH MARK                    |                 | SAWAH PADDY FIELD                        |
| <b>BANGUNAN STRUCTURE</b> |   |                 | LADANG/REBUN UPLAND FIELD                |
|                           | RUMAH HOUSING                                 |                 | BUAH-BUAHAN FIELD OF FRUIT               |
|                           | KANTOR PEMERINTAHAN GOVERNMENT OFFICE         |                 | KELAPA COCONUT FIELD                     |
|                           | KANTOR POLISI POLICE OFFICE                   |                 | KARET RUBBER FIELD                       |
|                           | KANTOR POS POST OFFICE                        |                 | LADA PEPPER FIELD                        |
|                           | SEKOLAH SCHOOL                                |                 | HUTAN BELUKAR FOREST                     |
|                           | RUMAH SAKIT HOSPITAL                          |                 | ALANG-ALANG GRASS                        |
|                           | MASJID MOSQUE                                 |                 | SOIL PIT                                 |
|                           | GEREJA/KELENTENG CHURCH                       | <b>PERAIRAN</b> |  |
|                           | PABRIK FACTORY                                |                 | ARAH ARUS DISCHARGE DIRECTLY             |
|                           | PUSAT USTARK TENAGA AIR HYDRO POWER STATION   |                 | SUNGAI DAN AMAN SUNGAI RIVER & TRIBUTARY |
|                           | PASAR MARKET                                  |                 | SALURAN AIR CANAL                        |
|                           | TEMPAT POMPA AIR WATER PUMP STATION           |                 | TALUD LEVEE                              |
| <b>JALAN</b>              |   |                 | BENDUNGAN WEIR                           |
|                           | JALAN > 2 m                                   |                 | PINJU AIR GATE WEIR                      |
|                           | JALAN 1 - 2 m                                 |                 | RAWA SWAMP                               |
|                           | JALAN SETAPAK CITY ROAD                       | <b>RELIEF</b>   |  |
|                           | JALAN SEDANG DIBANGUN UNDER CONSTRUCTION ROAD |                 | GARIS SAMA TINGGI CONTOUR                |
|                           | BAGIAN JALAN GELAS                            |                 | INDERS GARIS SAMA TINGGI INDEX CONTOUR   |
|                           | BAGIAN JALAN TIMBUNAN                         |                 | CULV OR ESCARPENT                        |
|                           | JEMBATAN BATA/BESE STONE/STEEL BRIDGE         |                 | SUSUR CUKAM                              |
|                           | JEMBATAN BAMBU BAMBOO BRIDGE                  |                 | GARIS SAMA TINGGI DEPRESSI               |
|                           | GORONG-GORONG PERBUJANG SEWERAGE CULVERT      |                 | TERING BERBATU                           |
|                           |   |                 | LERENG TEREKORI                          |

SCALE / SKALA



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IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

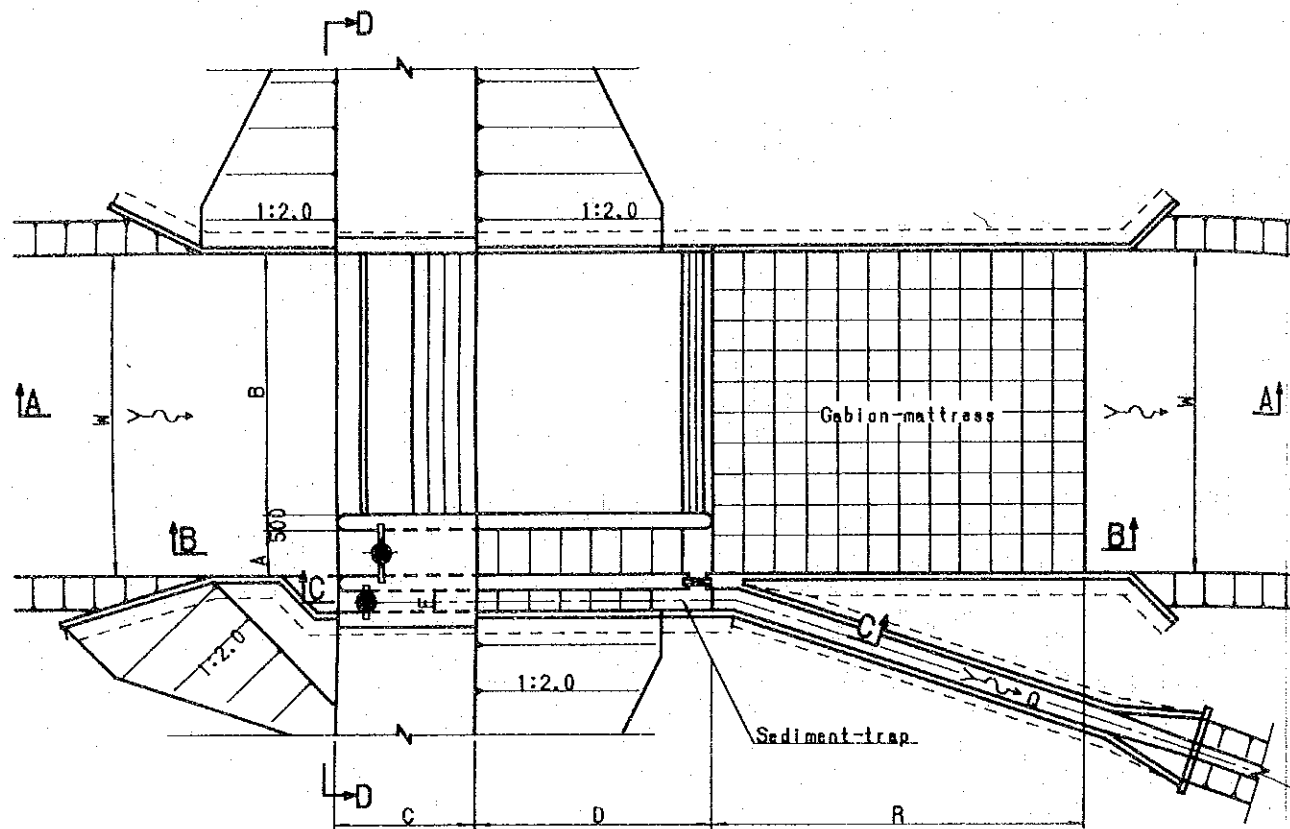
**LAND USE MAP**

SCHEME MONTONG SAPAH / PURI PROVINCE WEST NUSA TENGGARA

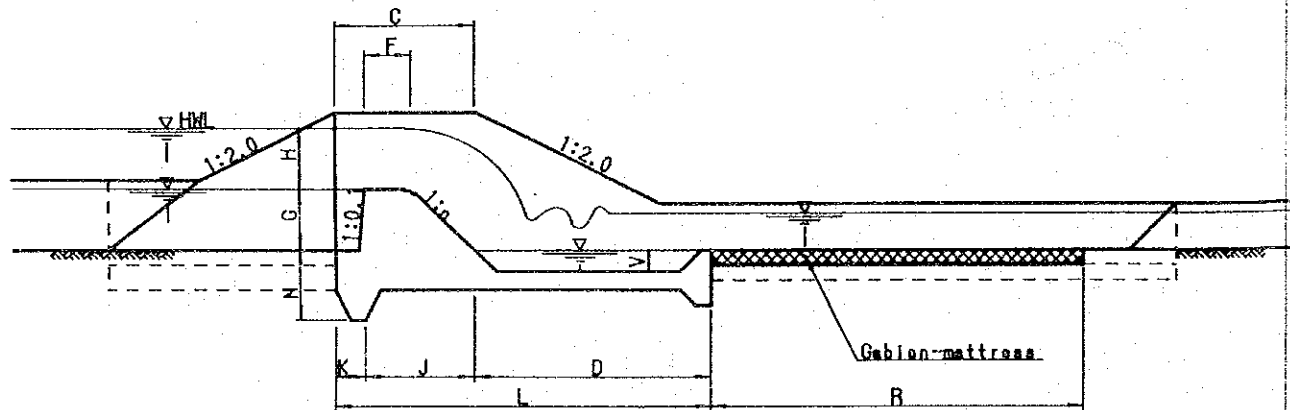
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TOKYO (JICA)

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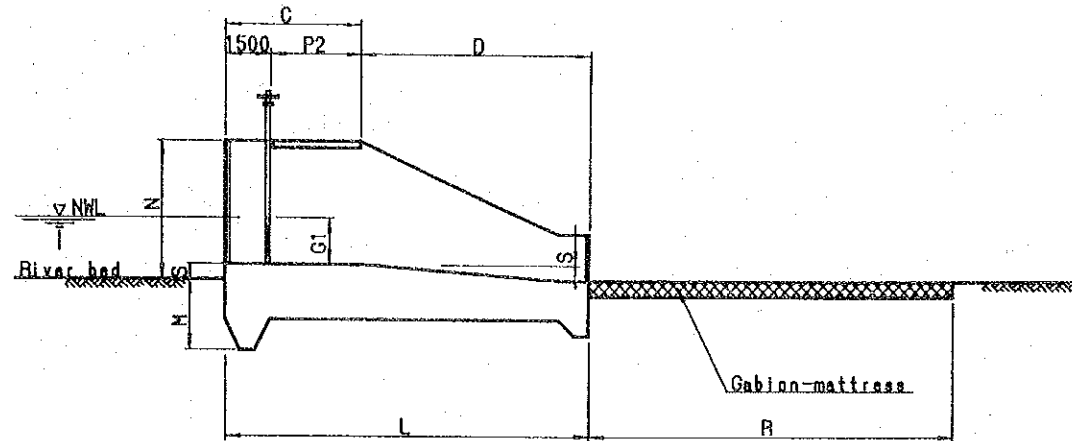
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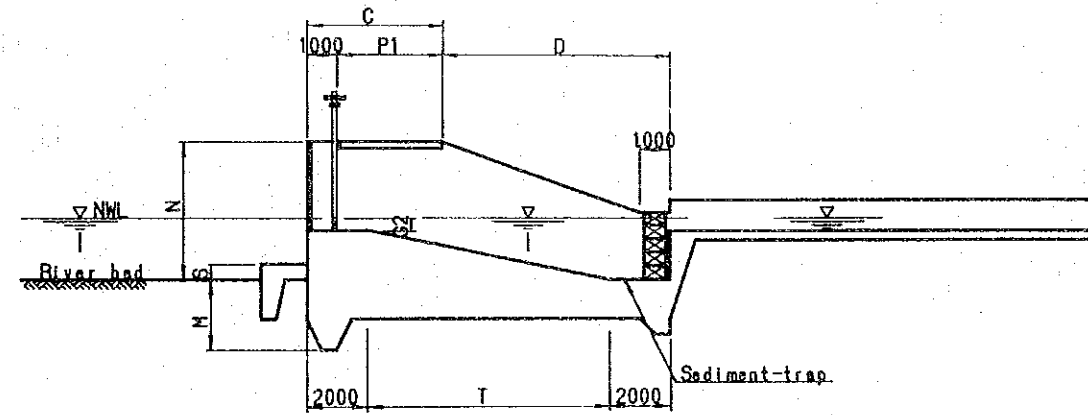
SECTION A-A



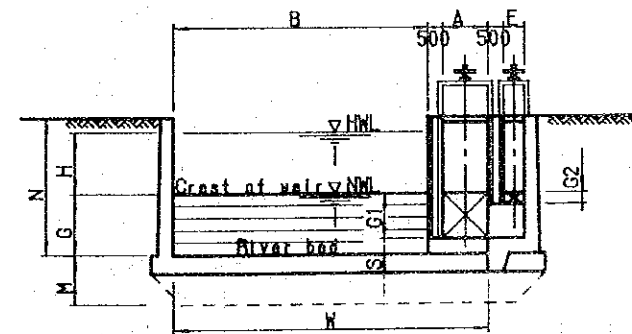
SECTION B-B



SECTION C-C



SECTION D-D



DIMENSION OF WEIR

Remarks: River width (w) shown in this drawing is a representative one as an example.

W(m)	B(m)	A(m)	G(m)	H(m)	C(m)	D(m)	F(m)	1:n	J(m)	K(m)	L(m)	R(m)	V(m)	M(m)	N(m)	P1(m)	P2(m)	T(m)	S(m)	G1(m)	Q (m <sup>3</sup> /s)	E(m)	G2(m)
10.50	8.50	1.50	1.00	1.00	2.15	5.40	1.05	0.6	1.65	0.50	7.55	3.00	0.30	1.30	2.50	1.15	0.65	3.55	0.25	0.75	0.500	1.30	1.00
10.50	8.50	1.50	1.00	1.50	2.55	5.40	1.25	0.8	2.05	0.50	7.95	6.00	0.30	1.30	3.00	1.55	1.05	3.95	0.25	0.75	0.450	1.30	0.90
10.50	8.50	1.50	1.00	2.00	3.00	5.40	1.50	1.0	2.50	0.50	8.40	8.00	0.30	1.30	3.50	2.00	1.50	4.40	0.25	0.75	0.400	1.30	0.80
10.50	8.50	1.50	1.50	1.00	2.70	6.65	1.05	0.6	1.95	0.75	9.35	4.00	0.50	1.50	3.00	1.70	1.20	5.35	0.35	1.15	0.350	1.20	0.75
10.50	8.50	1.50	1.50	1.50	3.25	6.65	1.30	0.8	2.50	0.75	9.90	7.00	0.50	1.50	3.50	2.25	1.75	5.90	0.35	1.15	0.300	1.10	0.70
10.50	8.50	1.50	1.50	2.00	3.75	6.65	1.50	1.0	3.00	0.75	10.40	10.00	0.50	1.50	4.00	2.75	2.25	6.40	0.35	1.15	0.250	1.10	0.60
10.50	8.50	1.50	2.00	1.00	3.50	7.65	1.30	0.6	2.50	1.00	11.15	4.00	0.70	2.30	3.50	2.50	2.00	7.15	0.50	1.50	0.200	1.00	0.50
10.50	8.50	1.50	2.00	1.50	3.90	7.65	1.30	0.8	2.90	1.00	11.55	8.00	0.70	2.30	4.00	2.90	2.40	7.55	0.50	1.50	0.150	0.90	0.45
10.50	8.50	1.50	2.00	2.00	4.50	7.65	1.50	1.0	3.50	1.00	12.15	12.00	0.70	2.30	4.50	3.50	3.00	8.15	0.50	1.50	0.100	0.70	0.40

THIS DRAWING IS THE RESULT OF PRELIMINARY DESIGN AND IS FOR COST ESTIMATION ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION

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 DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
 FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
 IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
 AT FARM LEVEL

STANDARD DESIGN OF WEIR

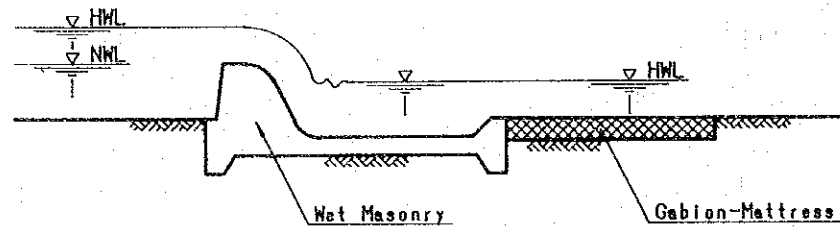
SCHEME: \_\_\_\_\_ PROVINCE: \_\_\_\_\_

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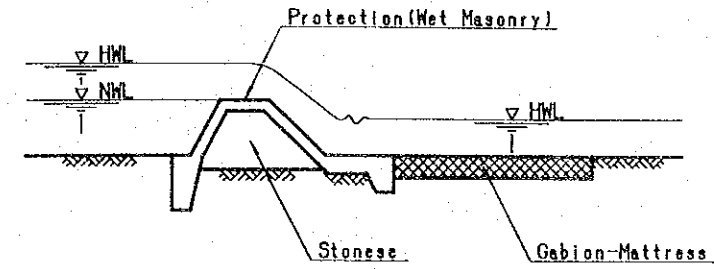
79

STANDARD OF WEIR SECTION

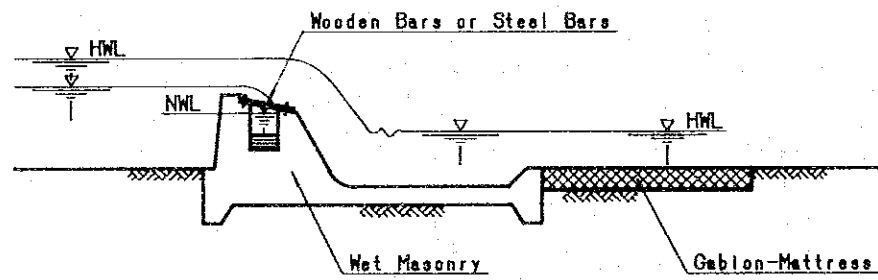
WET MASONRY TYPE



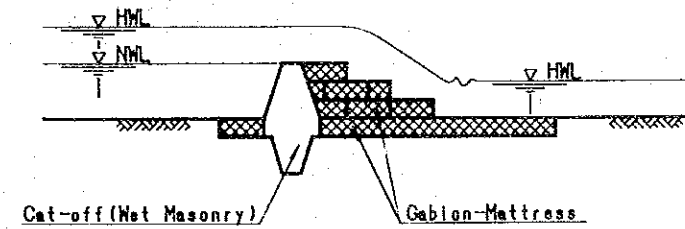
PROTECT TYPE



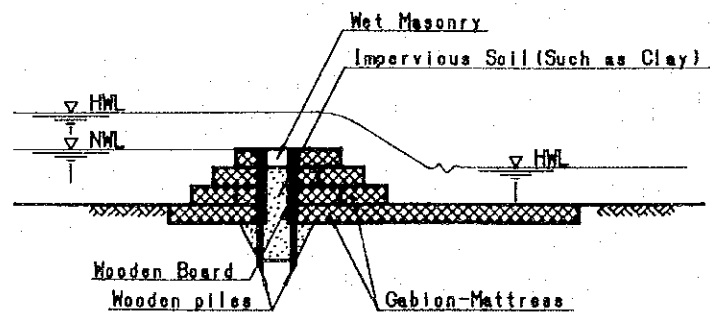
TYROLLER TYPE



MASONRY CUT-OFF AND GABION TYPE



GABION TYPE

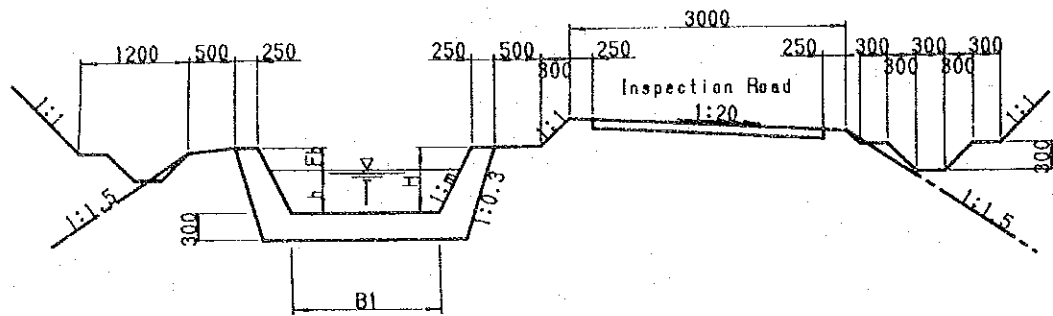


REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS AT FARM LEVEL	
STANDARD OF WEIR SECTION	
SCHEME:	PROVINCE:
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA)	DRD. NO. 80

STANDARD SECTION OF HEAD REACH AND MAIN DELIVERY CANAL

STANDARD SECTION OF DRAINAGE CANAL

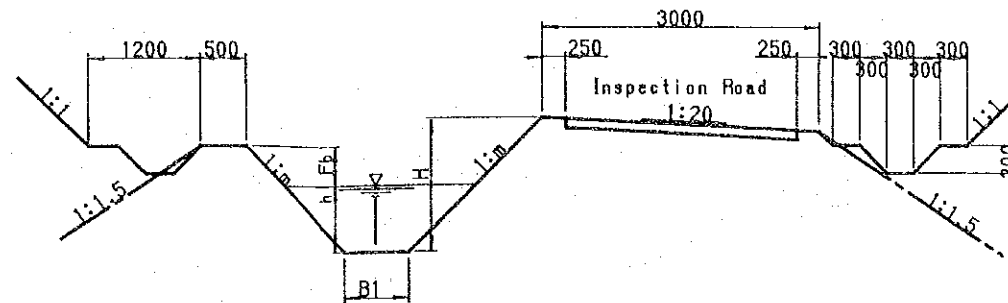
Masonry Lining Inclined Type



DIMENSION OF MASONRY LINING CANAL (Inclined Type)

TYPE	Q (m <sup>3</sup> /s)	H (m)	h (m)	F <sub>b</sub> (m)	B <sub>1</sub> (m)	m (1:m)	k	V (m/s)	T (1/1)
M-1	0.50	0.70	0.47	0.23	1.60	0.5	60	0.580	2,400
M-2	0.45	0.70	0.47	0.23	1.50	0.5	60	0.552	2,600
M-3	0.40	0.70	0.47	0.23	1.50	0.5	60	0.491	3,300
M-4	0.35	0.70	0.47	0.23	1.40	0.5	60	0.455	3,700

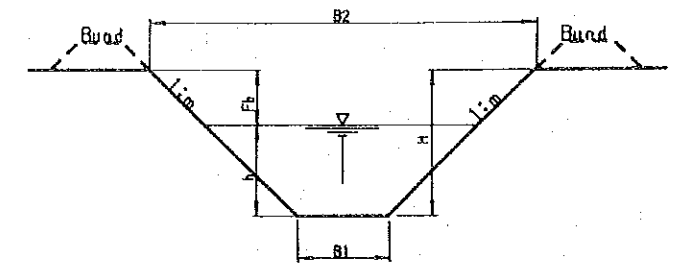
Main Delivery Canal



DIMENSION OF EARTH CANAL

TYPE	Q (m <sup>3</sup> /s)	H (m)	h (m)	F <sub>b</sub> (m)	B <sub>1</sub> (m)	m (1:m)	k	V (m/s)	T (1/1)
E-1	0.50	1.15	0.73	0.42	0.70	1.0	35	0.479	1,500
E-2	0.45	1.15	0.71	0.44	0.70	1.0	35	0.450	1,600
E-3	0.40	1.10	0.69	0.41	0.70	1.0	35	0.417	1,800
E-4	0.35	1.10	0.66	0.44	0.70	1.0	35	0.390	2,000
E-5	0.30	0.95	0.64	0.31	0.60	1.0	35	0.378	1,900
E-6	0.25	0.90	0.60	0.30	0.60	1.0	35	0.347	2,200
E-7	0.20	0.90	0.58	0.32	0.60	1.0	35	0.316	2,400
E-8	0.15	0.80	0.50	0.30	0.50	1.0	35	0.300	2,300
E-9	0.10	0.75	0.41	0.34	0.40	1.0	35	0.313	1,500
E-10	0.05	0.60	0.29	0.31	0.30	1.0	35	0.364	600

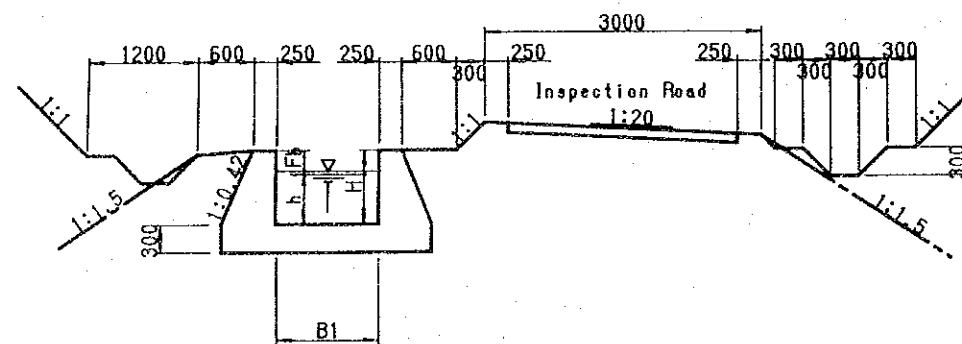
Main Drainage Canal



DIMENSION OF MAIN DRAINAGE CANAL

TYPE	Q (m <sup>3</sup> /s)	H (m)	h (m)	F <sub>b</sub> (m)	B <sub>1</sub> (m)	B <sub>2</sub> (m)	m (1:m)
D-1	0.50	1.50	1.00	0.50	1.00	4.00	1.0
D-2	1.00	1.50	1.00	0.50	1.00	4.00	1.0
D-3	2.00	1.60	1.00	0.60	1.00	4.20	1.0

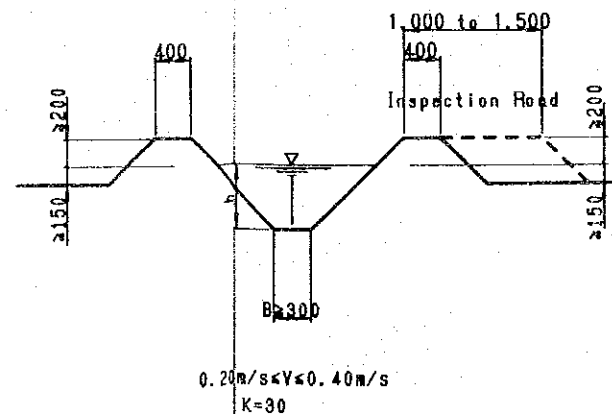
Masonry Lining Vertical Type



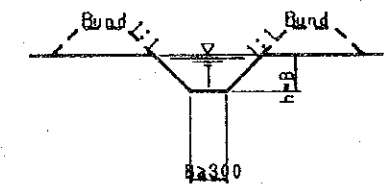
DIMENSION OF MASONRY LINING CANAL (Vertical Type)

TYPE	Q (m <sup>3</sup> /s)	H (m)	h (m)	F <sub>b</sub> (m)	B <sub>1</sub> (m)	m (1:m)	k	V (m/s)	T (1/1)
C-5	0.30	0.80	0.58	0.22	1.10	-	60	0.470	3,000
C-6	0.25	0.75	0.55	0.20	1.10	-	60	0.413	3,800
C-7	0.20	0.75	0.55	0.20	1.00	-	60	0.364	4,500
C-8	0.15	0.70	0.46	0.24	0.90	-	60	0.362	3,800
C-9	0.10	0.60	0.38	0.22	0.70	-	60	0.376	2,600
C-10	0.05	0.45	0.25	0.20	0.50	-	60	0.400	1,400

Sub Delivery Canal



Sub Drainage Canal



0.20m/s ≤ V ≤ 0.40m/s  
K=25

REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE  
DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE  
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT  
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS  
AT FARM LEVEL

STANDARD SECTION OF CANAL

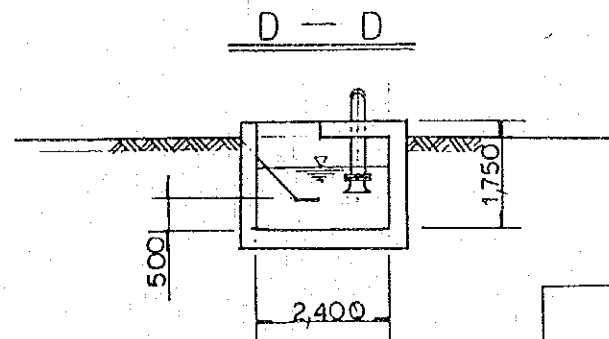
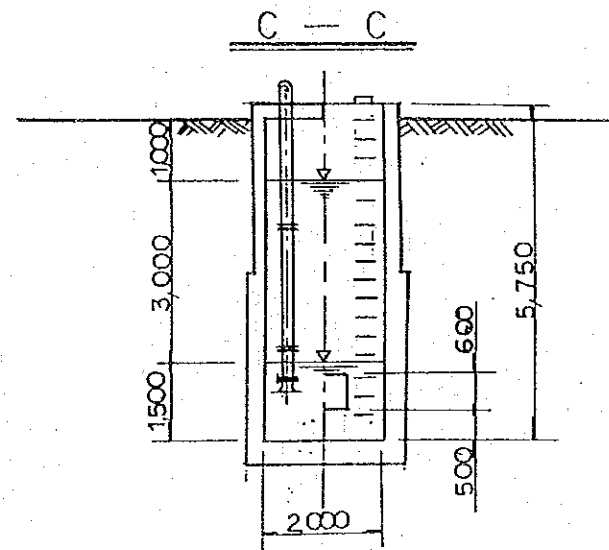
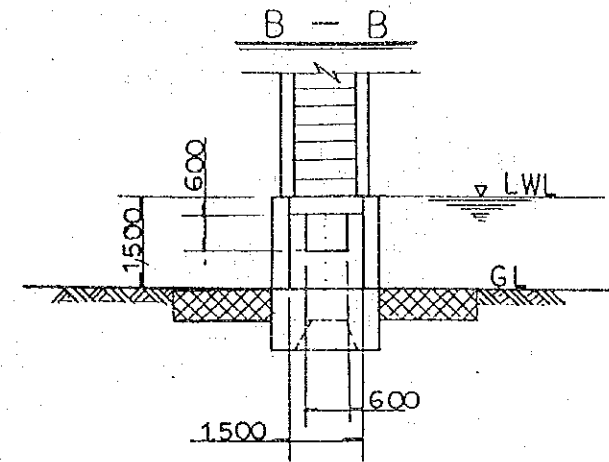
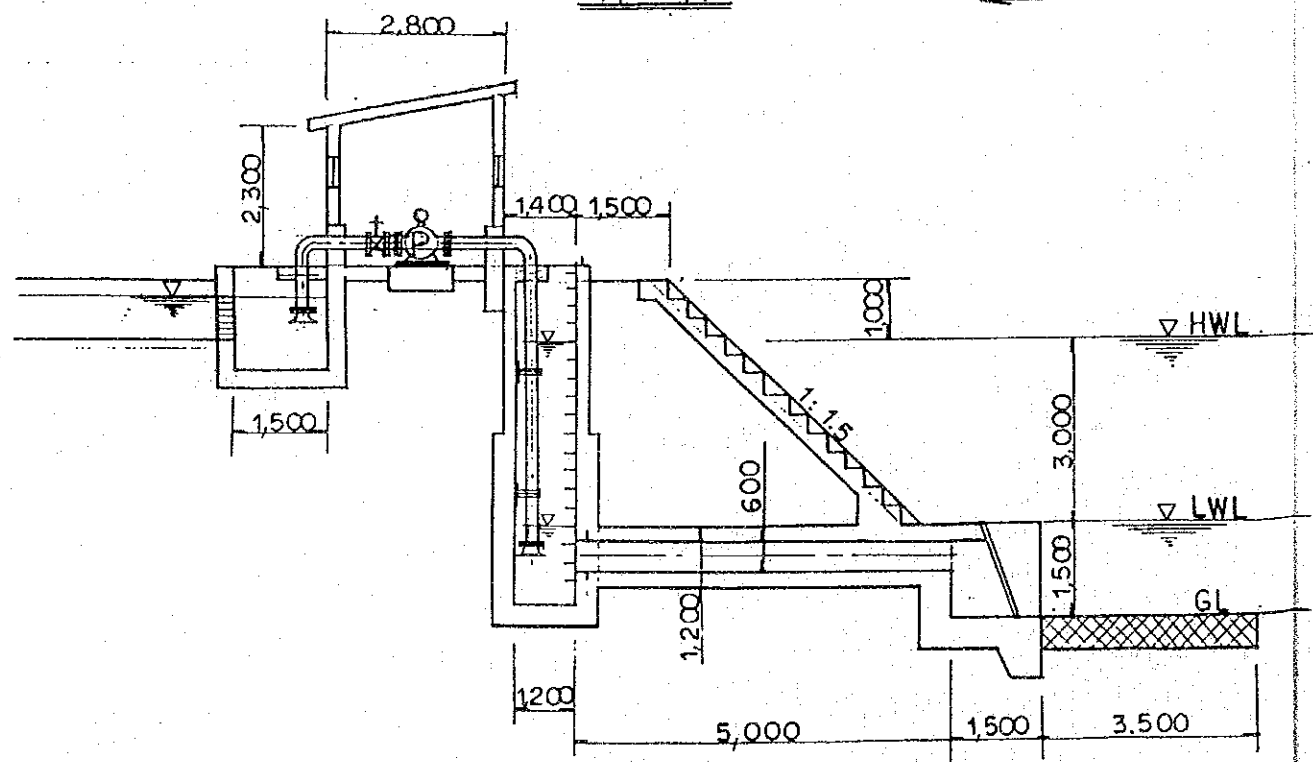
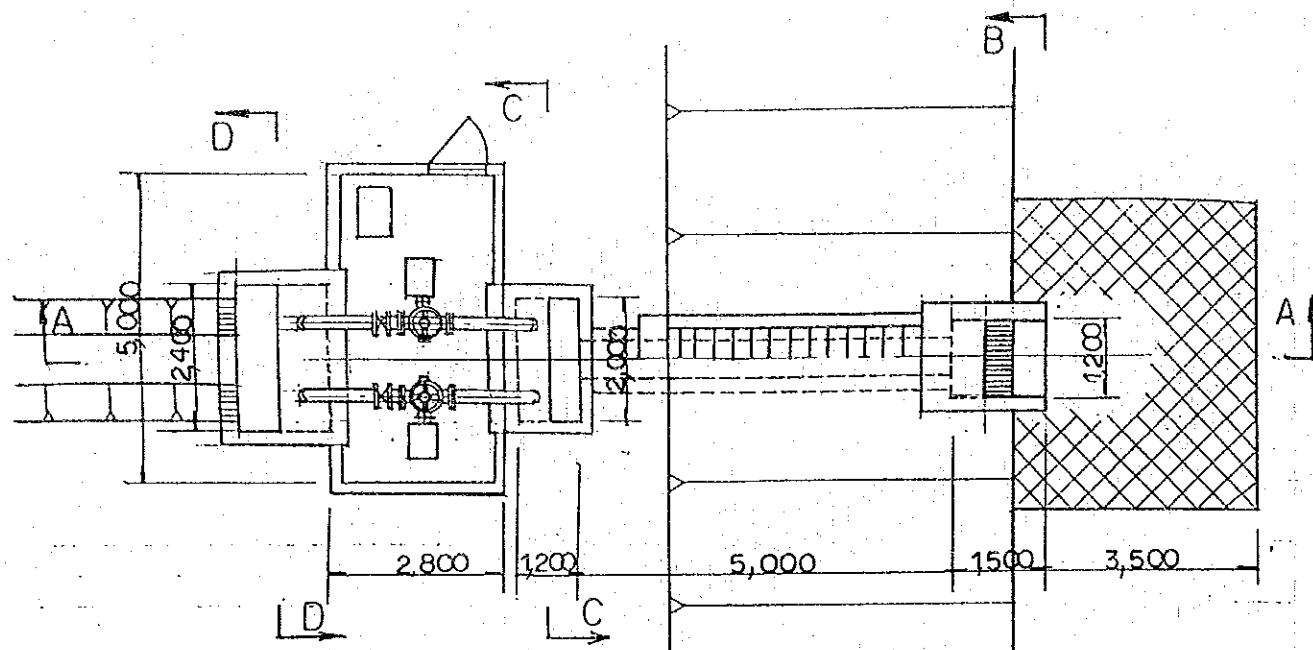
SCHEME: \_\_\_\_\_ PROVINCE: \_\_\_\_\_

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO (JICA)

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# STANDARD OF PUMP STATION



REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS AT FARM LEVEL	
<b>STANDARD OF PUMP STATION</b>	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA)	DWG. NO. <b>82</b>

