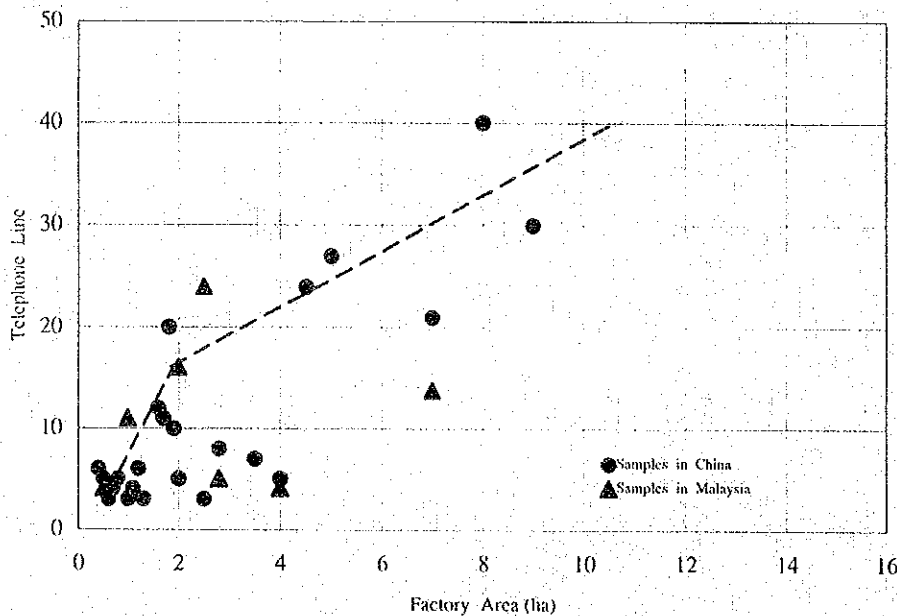
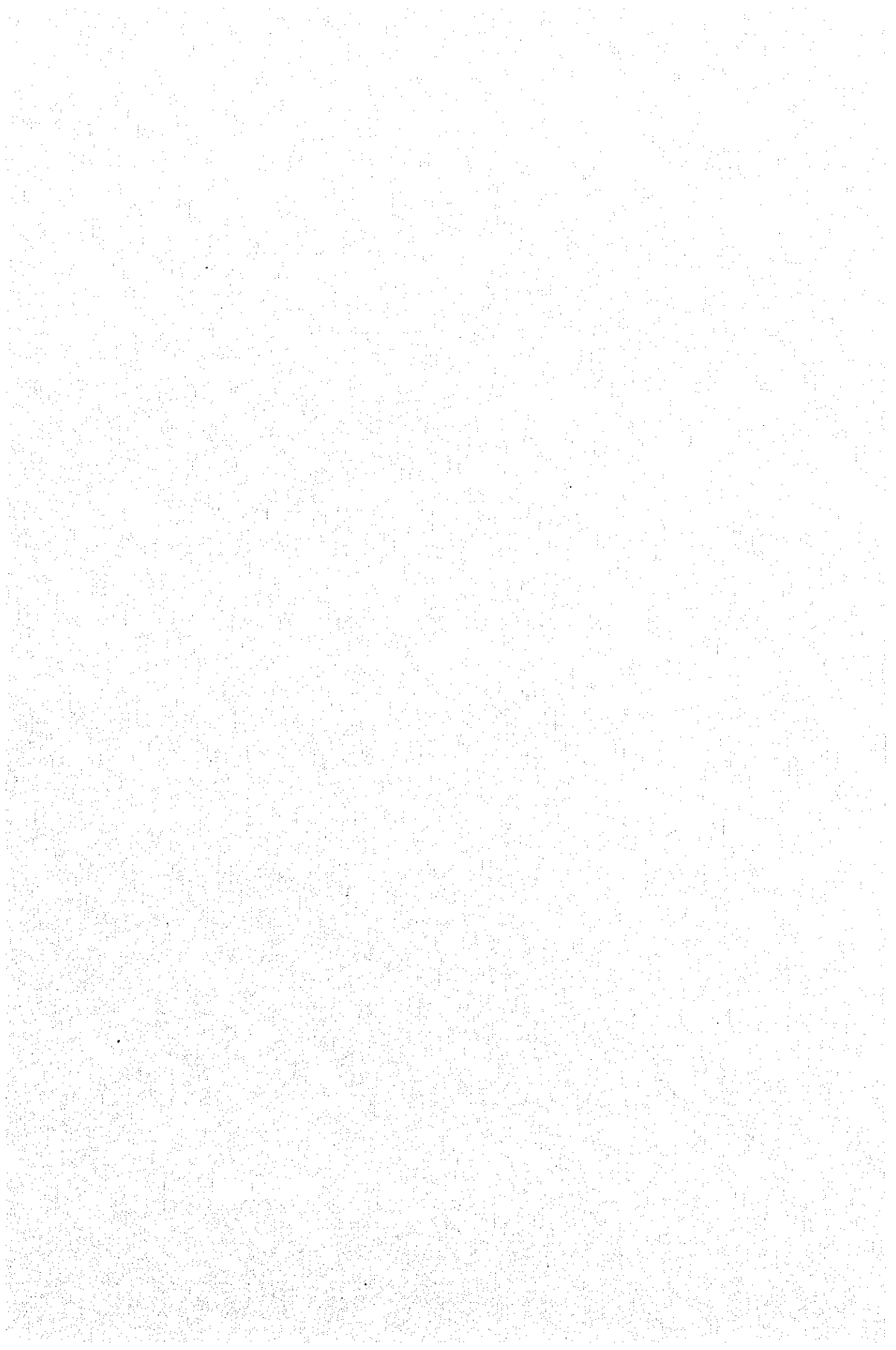


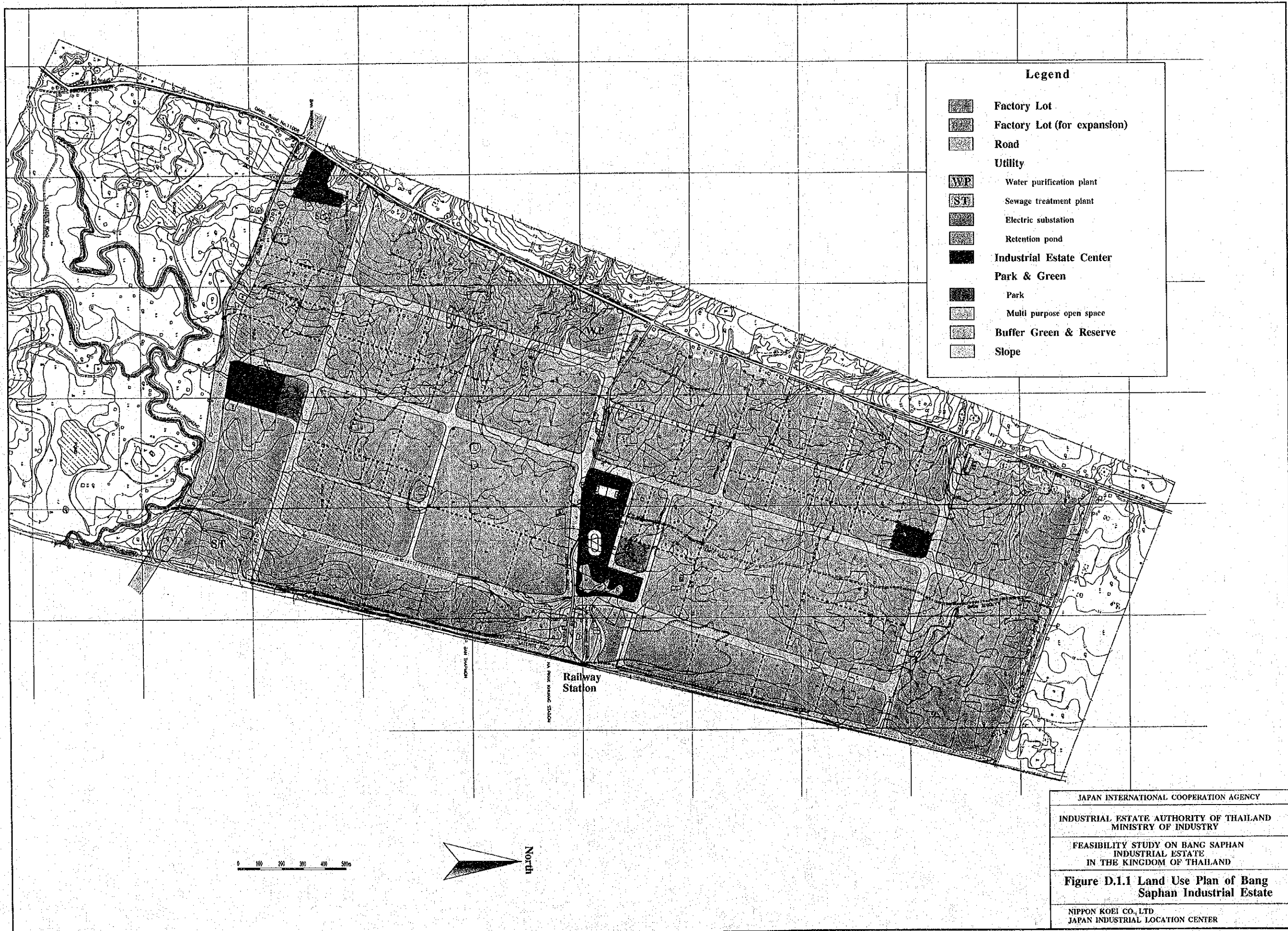
Table D.8.1 Telephone Demand Projection

	Area (ha) (1)	No. of Factory (2)	Demand Rate (line/ha)* (3)	Demand Rate (line/fact) (4)	Required Demand (5)=(1)×(3)	Required Demand (6)=(2)×(4)	Required Capacity Max (5)/(6)
Phase I							
1.Factory	52.0	20	4	3	208	60	208
2.Water Purification Plant	5.0						3
3.Sewerage Treatment Plant	10.0						3
4.Industrial Park Center	1.8						60
5.Electric Substation	2.0						2
Total							276
Phase II							
1.Factory	148.5	17	4	3	594	51	596
Sub-total							596
Total							872
Phase III							
1.Factory	213.9	34	4	3	856	102	856
2.Electric Substation	2.0						2
Sub-total							858
Total							1730

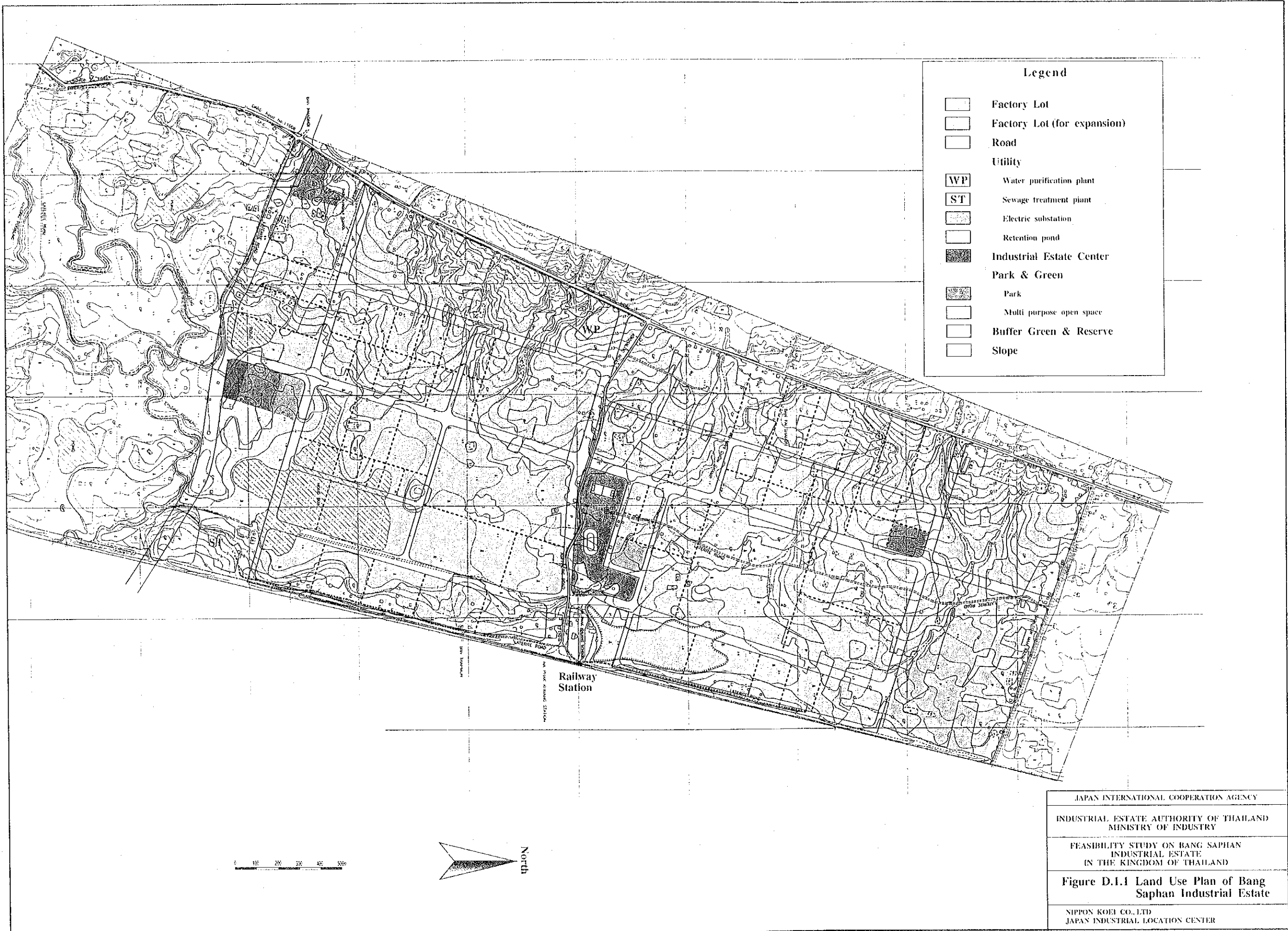
*Unit Telephone Demand Per Factory Area





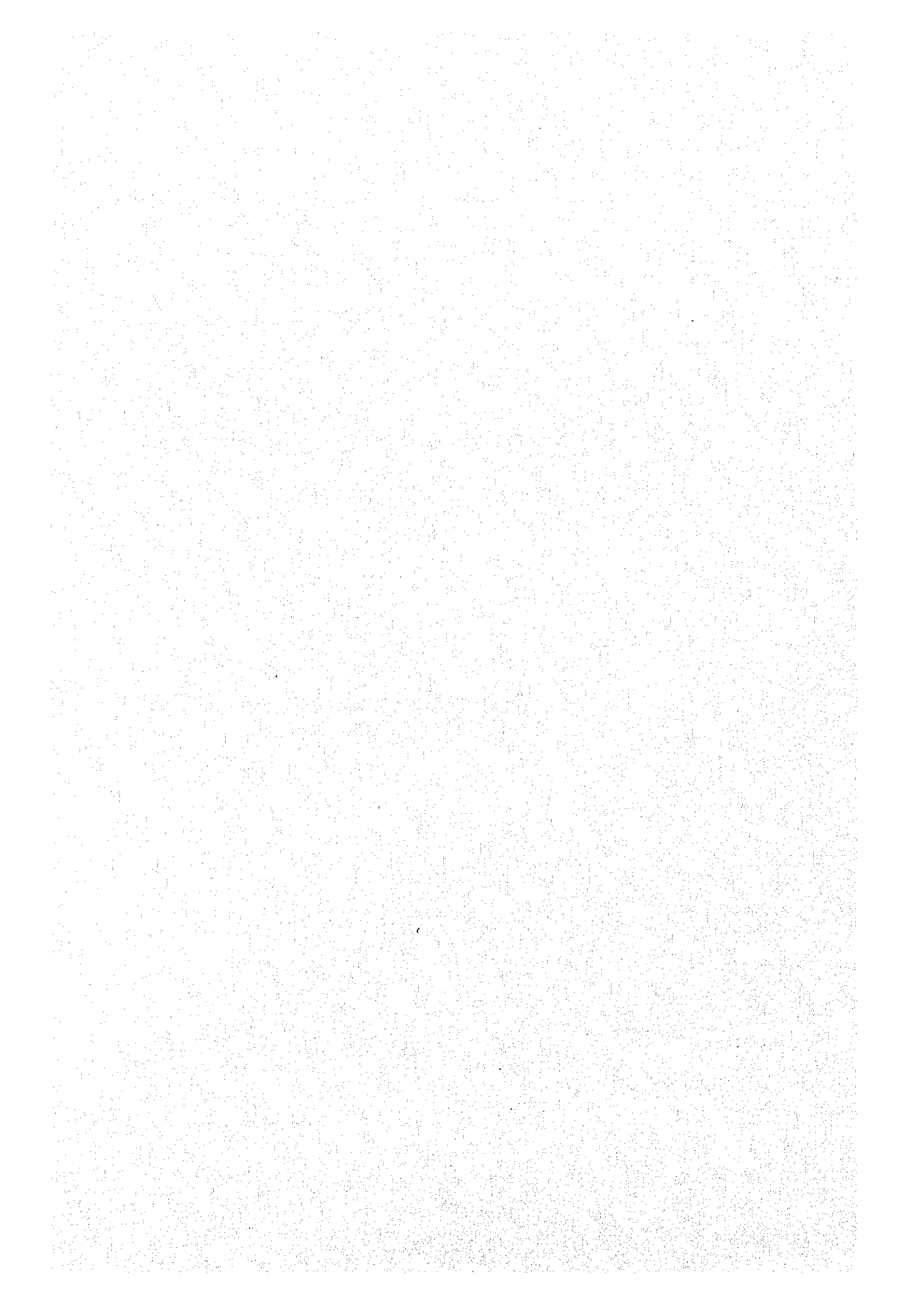


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 MINISTRY OF INDUSTRY
 FEASIBILITY STUDY ON BANG SAPHAN
 INDUSTRIAL ESTATE
 IN THE KINGDOM OF THAILAND
**Figure D.1.1 Land Use Plan of Bang
 Saphan Industrial Estate**
 NIPPON KOEI CO., LTD.
 JAPAN INDUSTRIAL LOCATION CENTER

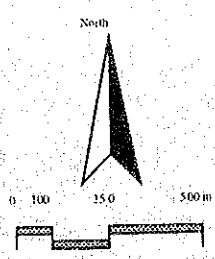
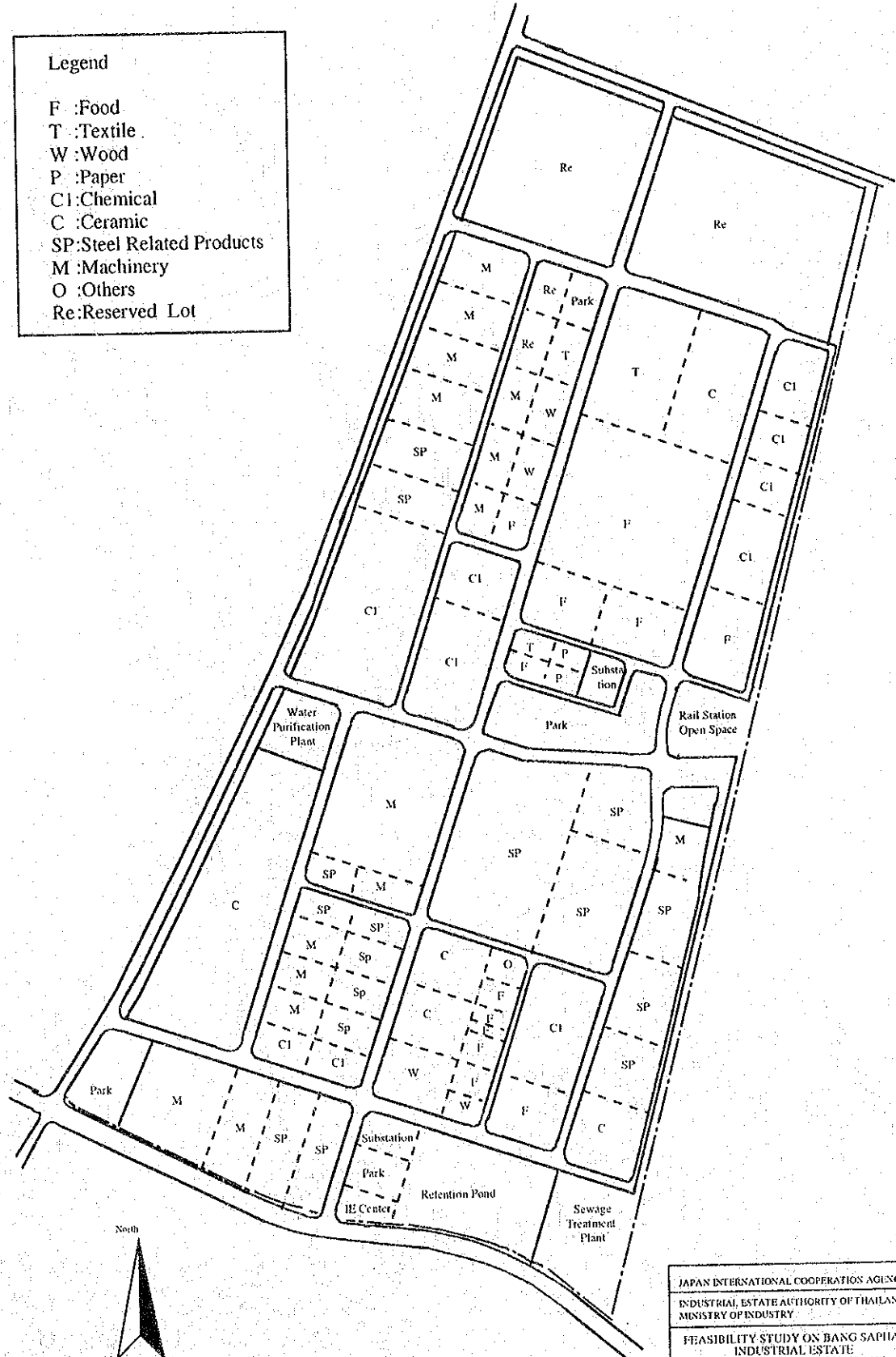


Legend	
[White Box]	Factory Lot
[Light Gray Box]	Factory Lot (for expansion)
[Dashed Line]	Road
Utility	
[WP Box]	Water purification plant
[ST Box]	Sewage treatment plant
[Stippled Box]	Electric substation
[White Box]	Retention pond
[Dark Stippled Box]	Industrial Estate Center
Park & Green	
[Dotted Box]	Park
[White Box]	Multi purpose open space
[White Box]	Buffer Green & Reserve
[White Box]	Slope

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FEASIBILITY STUDY ON BANG SAPHAN INDUSTRIAL ESTATE IN THE KINGDOM OF THAILAND
Figure D.1.1 Land Use Plan of Bang Saphan Industrial Estate
SIPPON KOEI CO., LTD JAPAN INDUSTRIAL LOCATION CENTER



- Legend**
- F :Food
 - T :Textile
 - W :Wood
 - P :Paper
 - Cl:Chemical
 - C :Ceramic
 - SP:Steel Related Products
 - M :Machinery
 - O :Others
 - Re:Reserved Lot



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 MINISTRY OF INDUSTRY

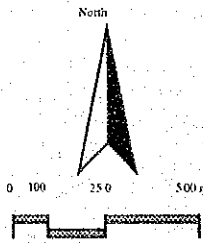
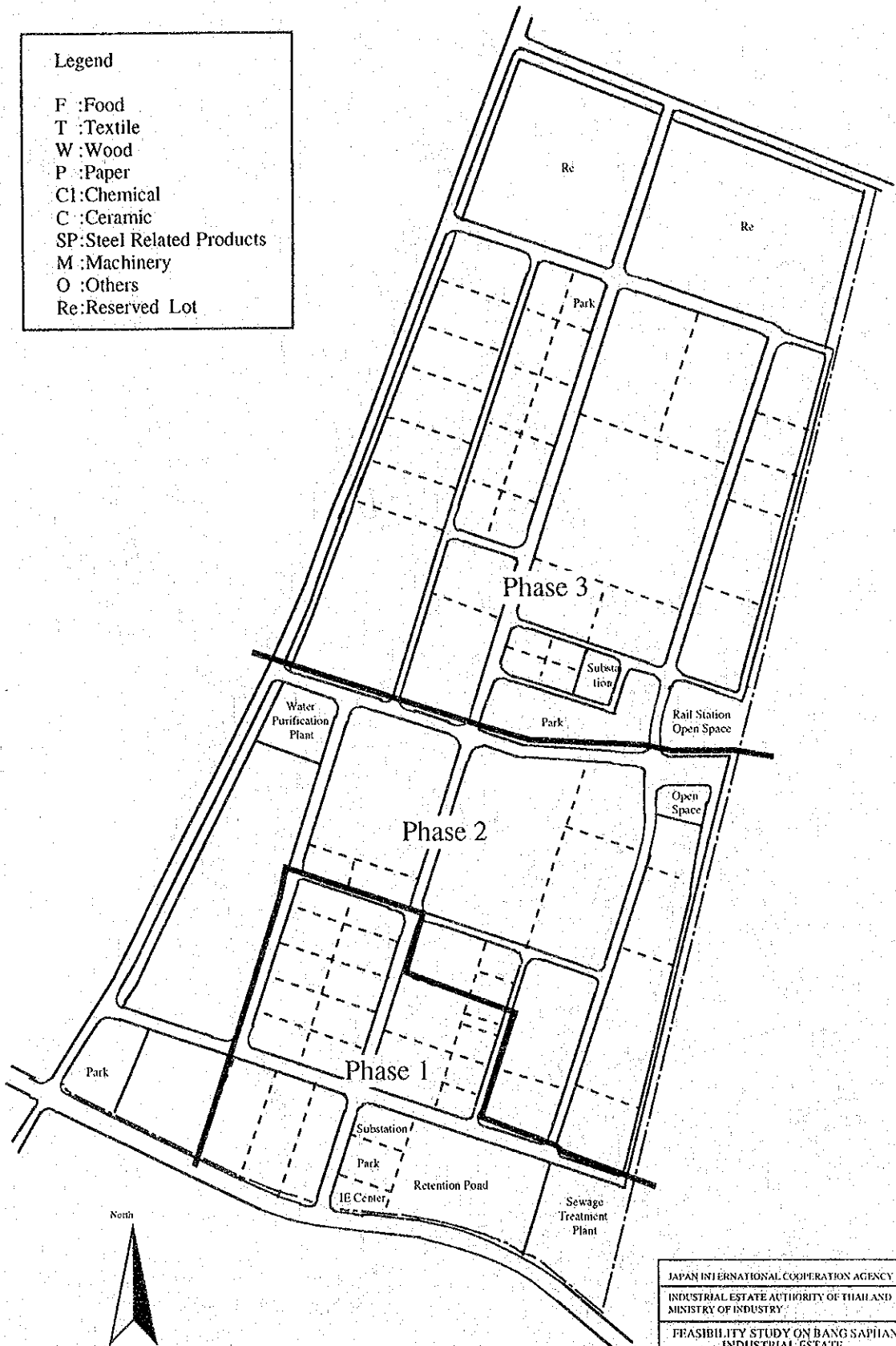
FEASIBILITY STUDY ON BANG SAPHAN
 INDUSTRIAL ESTATE
 IN THE KINGDOM OF THAILAND

**Figure D.1.2 Lot Distribution
 Plan by Category of Industry**

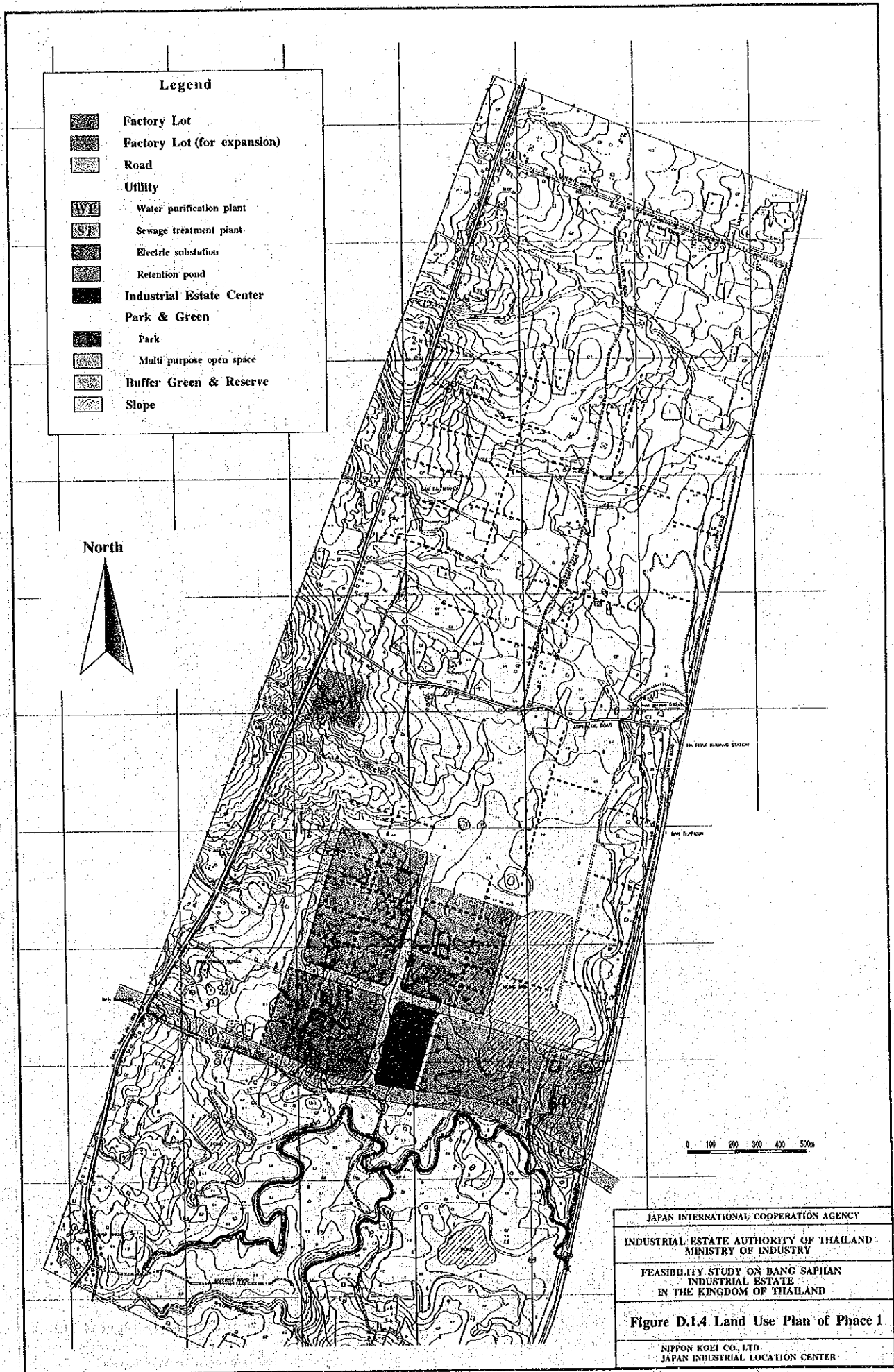
NIPPON KOEI CO., LTD.
 JAPAN INDUSTRIAL LOCATION CENTER

Legend

- F :Food
- T :Textile
- W :Wood
- P :Paper
- Cl:Chemical
- C :Ceramic
- SP:Steel Related Products
- M :Machinery
- O :Others
- Re:Reserved Lot



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Figure D.1.3: Distribution of Development Phase
NIPPON KOEI CO., LTD. JAPAN INDUSTRIAL LOCATION CENTER



Legend

- Factory Lot
- Factory Lot (for expansion)
- Road
- Utility**
- Water purification plant
- Sewage treatment plant
- Electric substation
- Retention pond
- Industrial Estate Center
- Park & Green**
- Park
- Multi purpose open space
- Buffer Green & Reserve
- Slope

North

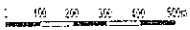
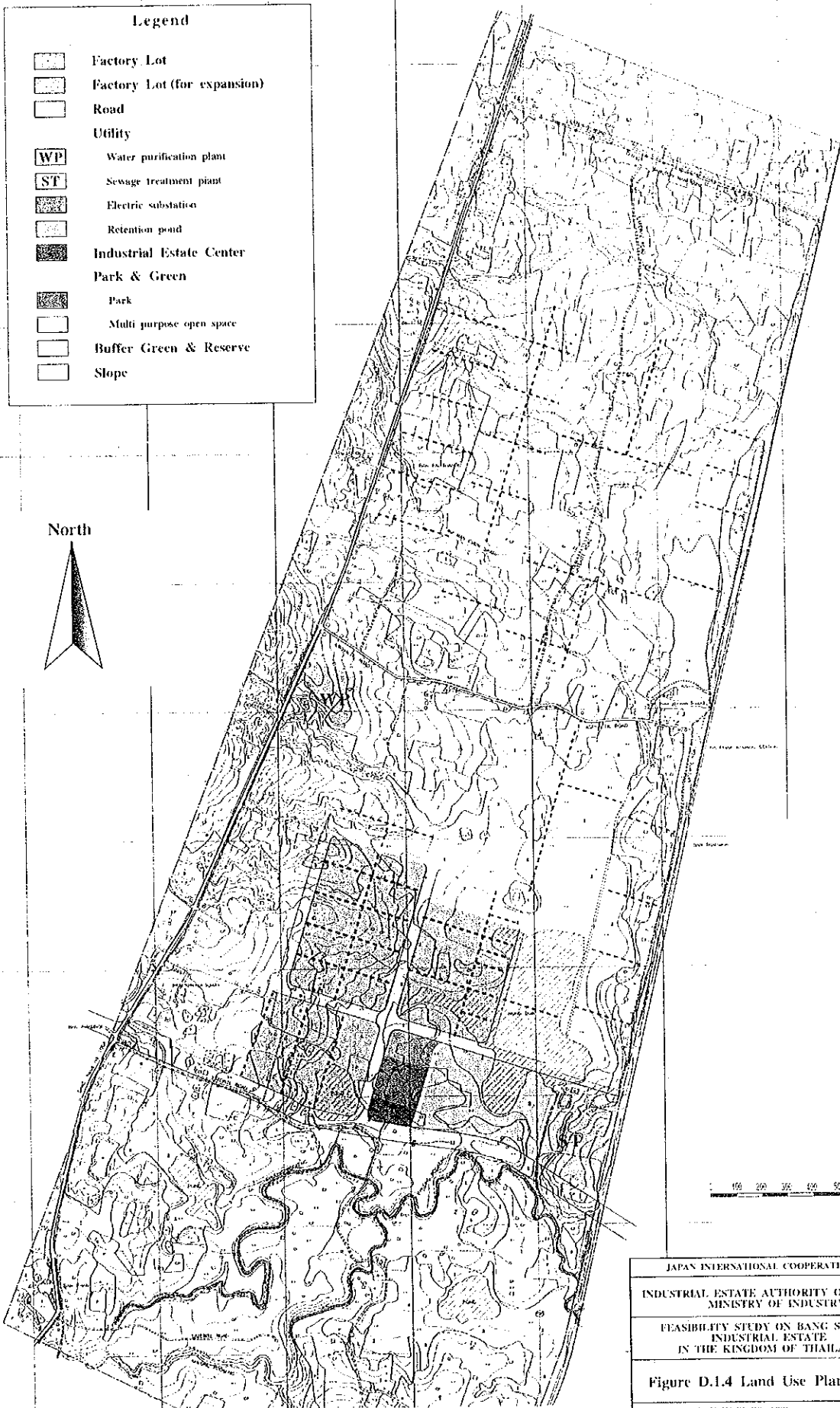
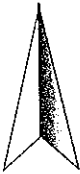


0 100 200 300 400 500m

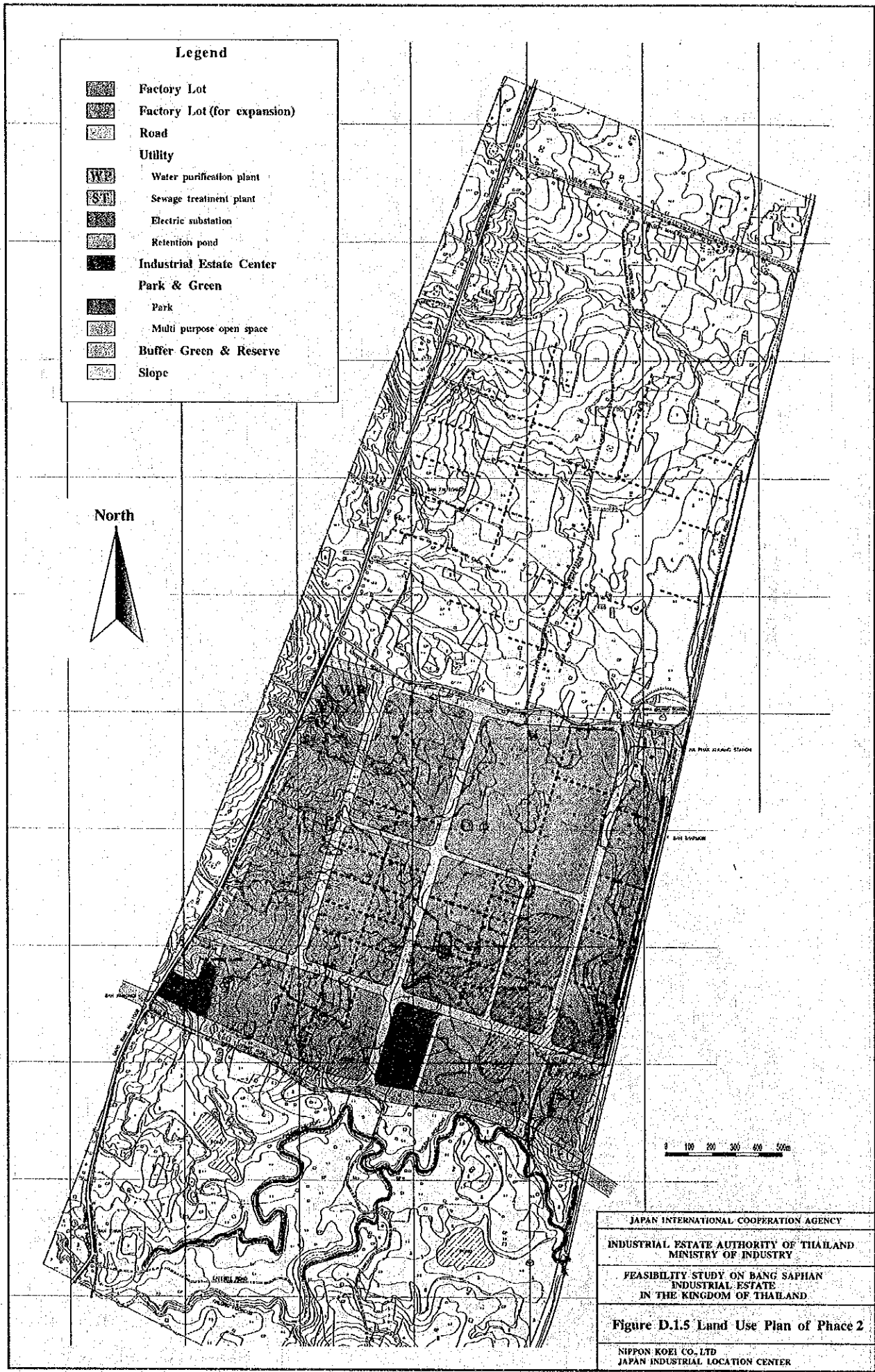
JAPAN INTERNATIONAL COOPERATION AGENCY
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 MINISTRY OF INDUSTRY
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 IN THE KINGDOM OF THAILAND
 Figure D.1.4 Land Use Plan of Phace 1
 NIPPON KOEI CO., LTD
 JAPAN INDUSTRIAL LOCATION CENTER

Legend	
	Factory Lot
	Factory Lot (for expansion)
	Road
Utility	
	Water purification plant
	Sewage treatment plant
	Electric substation
	Retention pond
	Industrial Estate Center
Park & Green	
	Park
	Multi purpose open space
	Buffer Green & Reserve
	Slope

North



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Figure D.1.4 Land Use Plan of Phase 1
SIPPON KOEI CO., LTD. JAPAS INDUSTRIAL EDUCATION CENTER

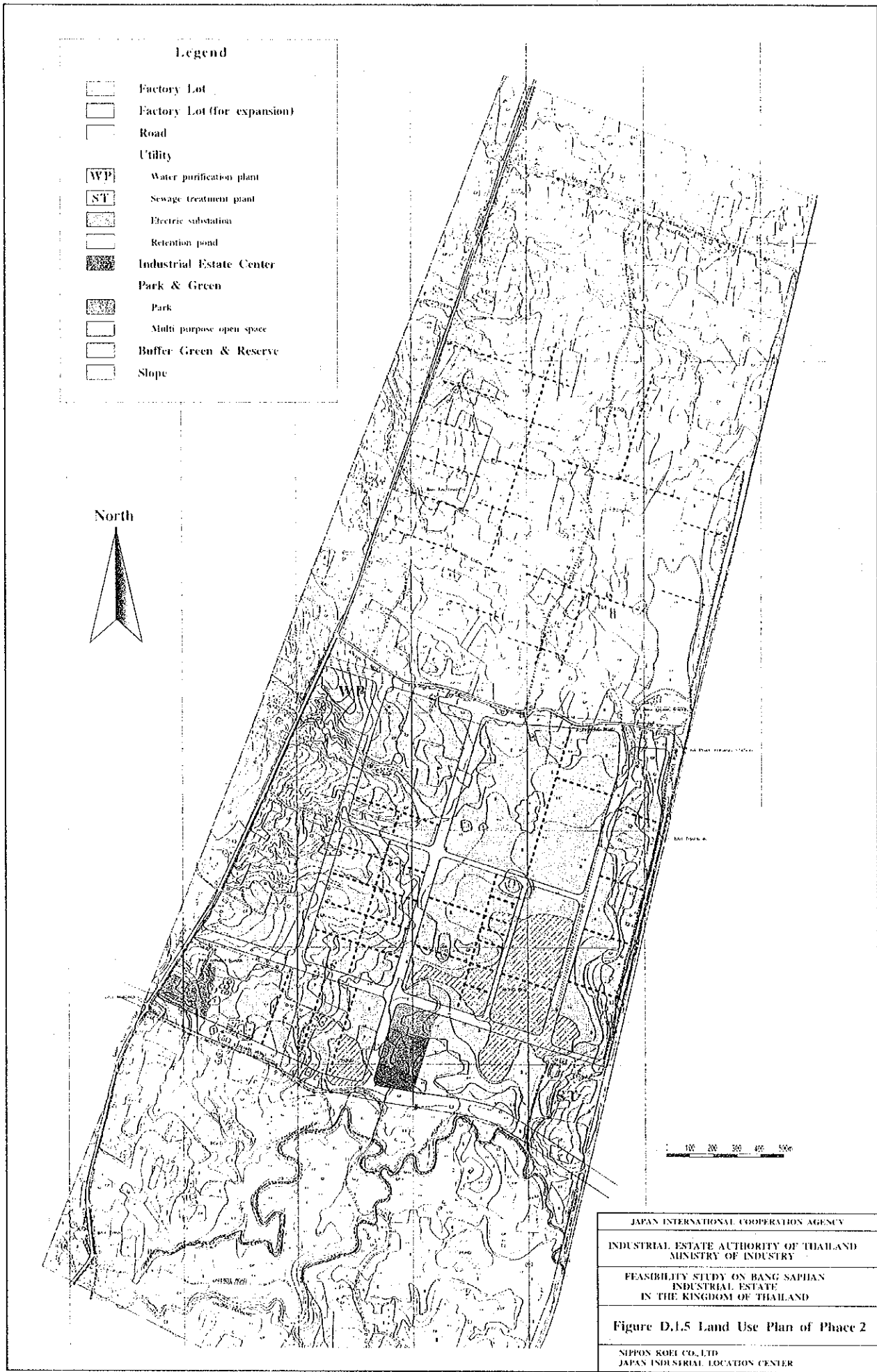


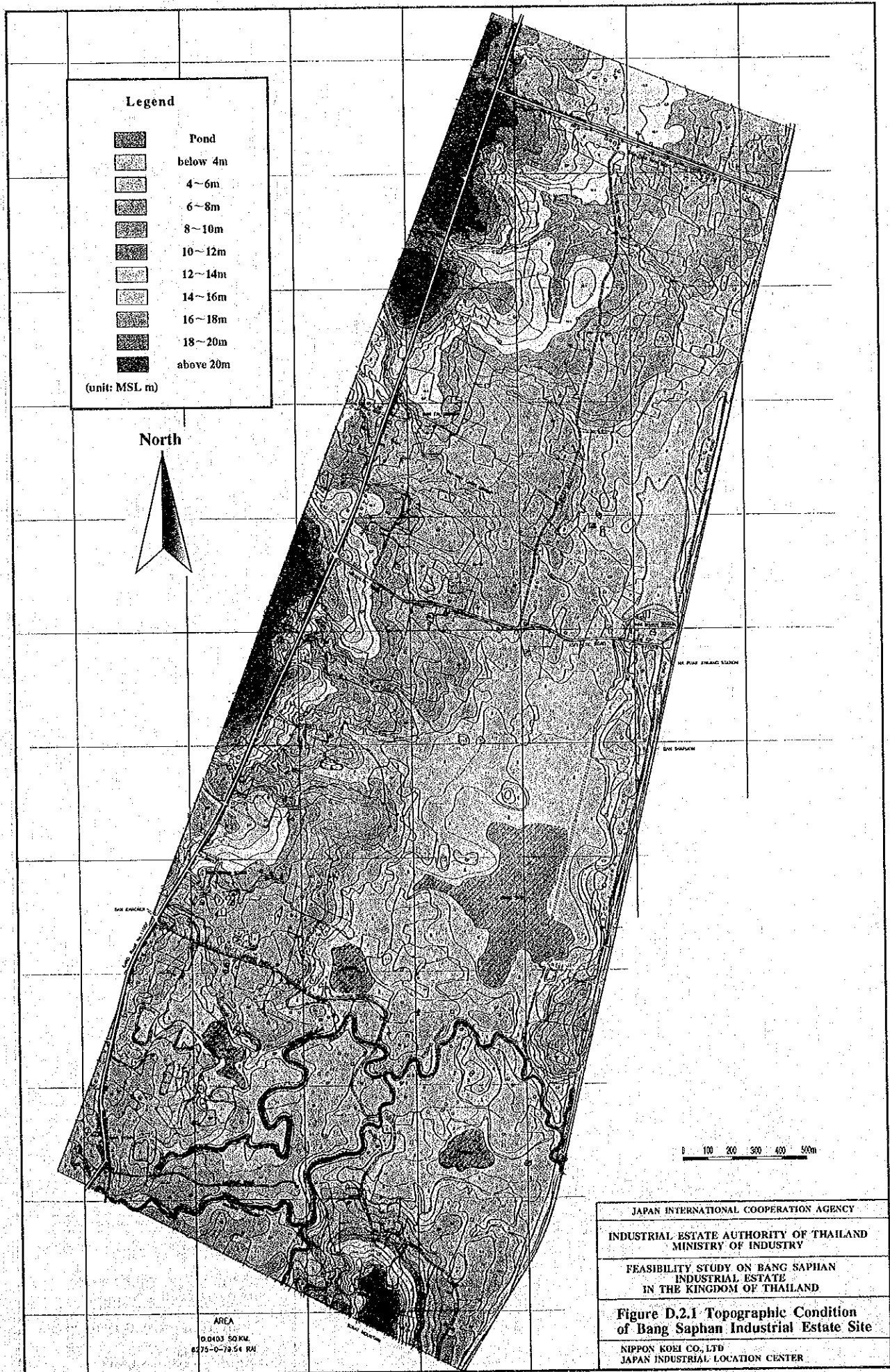
Legend	
[Symbol]	Factory Lot
[Symbol]	Factory Lot (for expansion)
[Symbol]	Road
Utility	
[Symbol]	Water purification plant
[Symbol]	Sewage treatment plant
[Symbol]	Electric substation
[Symbol]	Retention pond
[Symbol]	Industrial Estate Center
Park & Green	
[Symbol]	Park
[Symbol]	Multi purpose open space
[Symbol]	Buffer Green & Reserve
[Symbol]	Slope



0 100 200 300 400 500m

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 IN THE KINGDOM OF THAILAND
Figure D.1.5 Land Use Plan of Phase 2
 NIPPON KOEI CO., LTD
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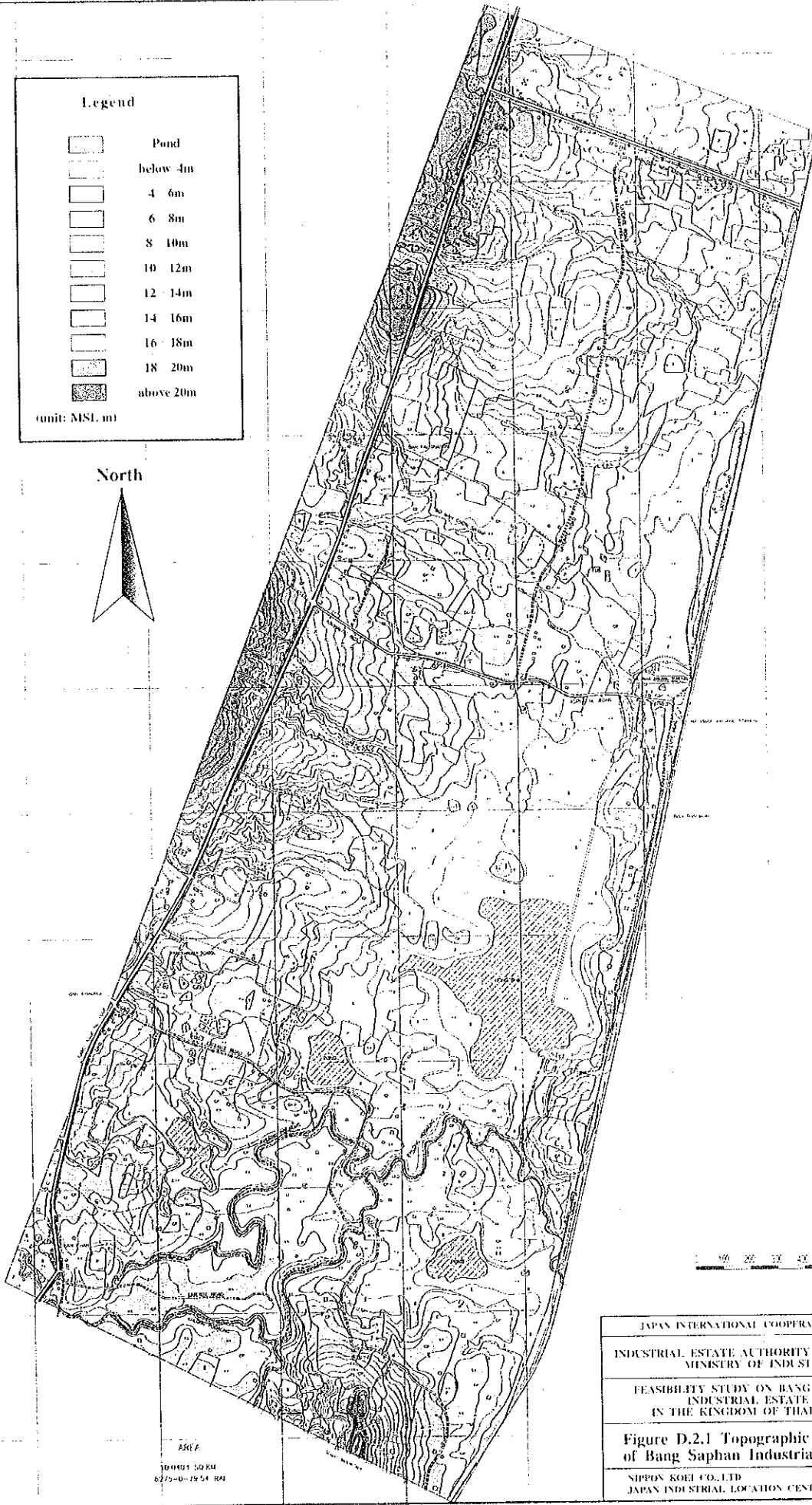




Legend	
	Pond
	below 4m
	4-6m
	6-8m
	8-10m
	10-12m
	12-14m
	14-16m
	16-18m
	18-20m
	above 20m

(unit: MSL. m)

North

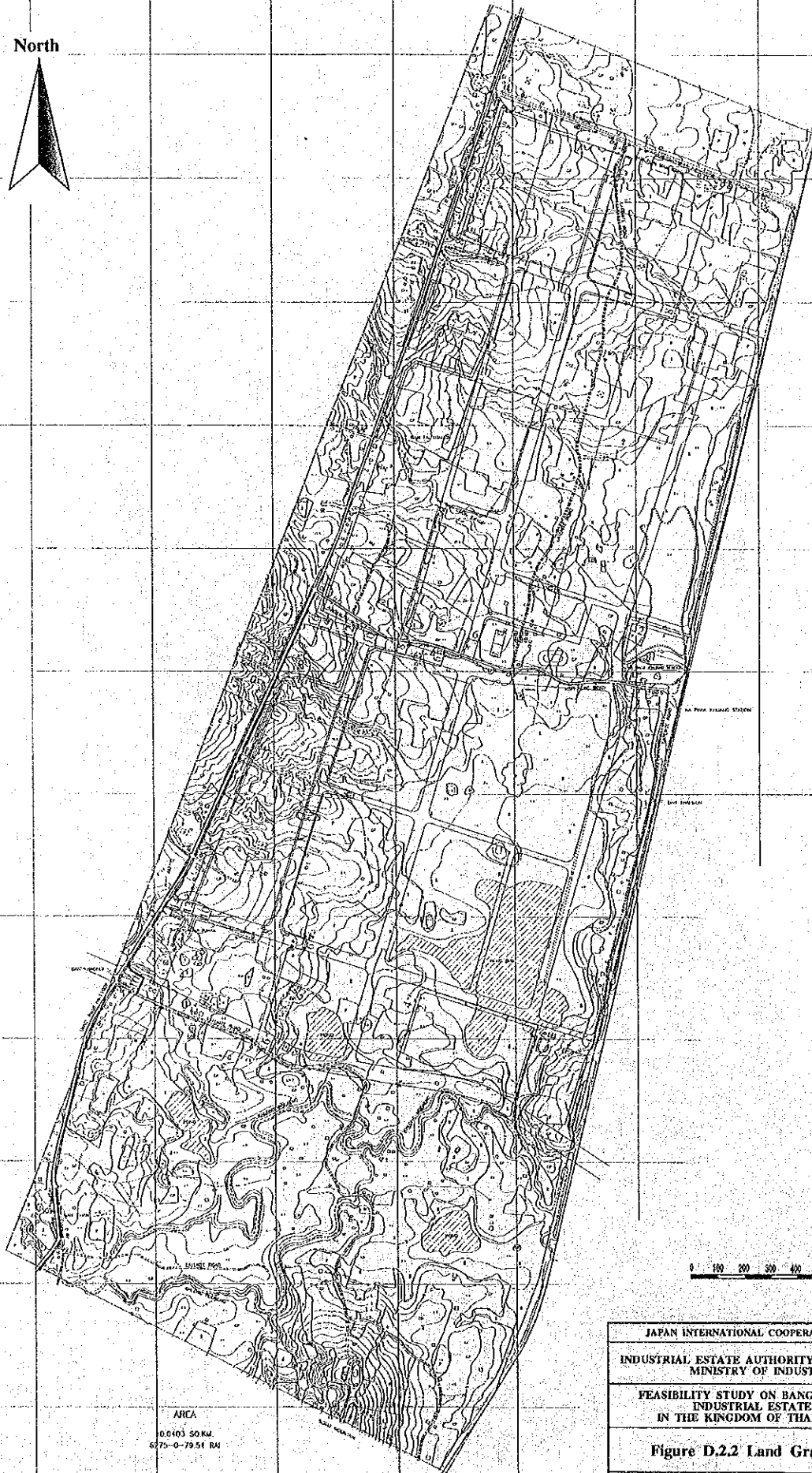


0 50 100 150 200 250

AREA
100000 SQ.M
6275-0-1954 RA

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 INDUSTRIAL ESTATE
 IN THE KINGDOM OF THAILAND
**Figure D.2.1 Topographic Condition
 of Bang Saphan Industrial Estate Site**
 NIPPON KOEI CO., LTD.
 JAPAN INDUSTRIAL LOCATION CENTER

North



0 100 200 300 400 500m

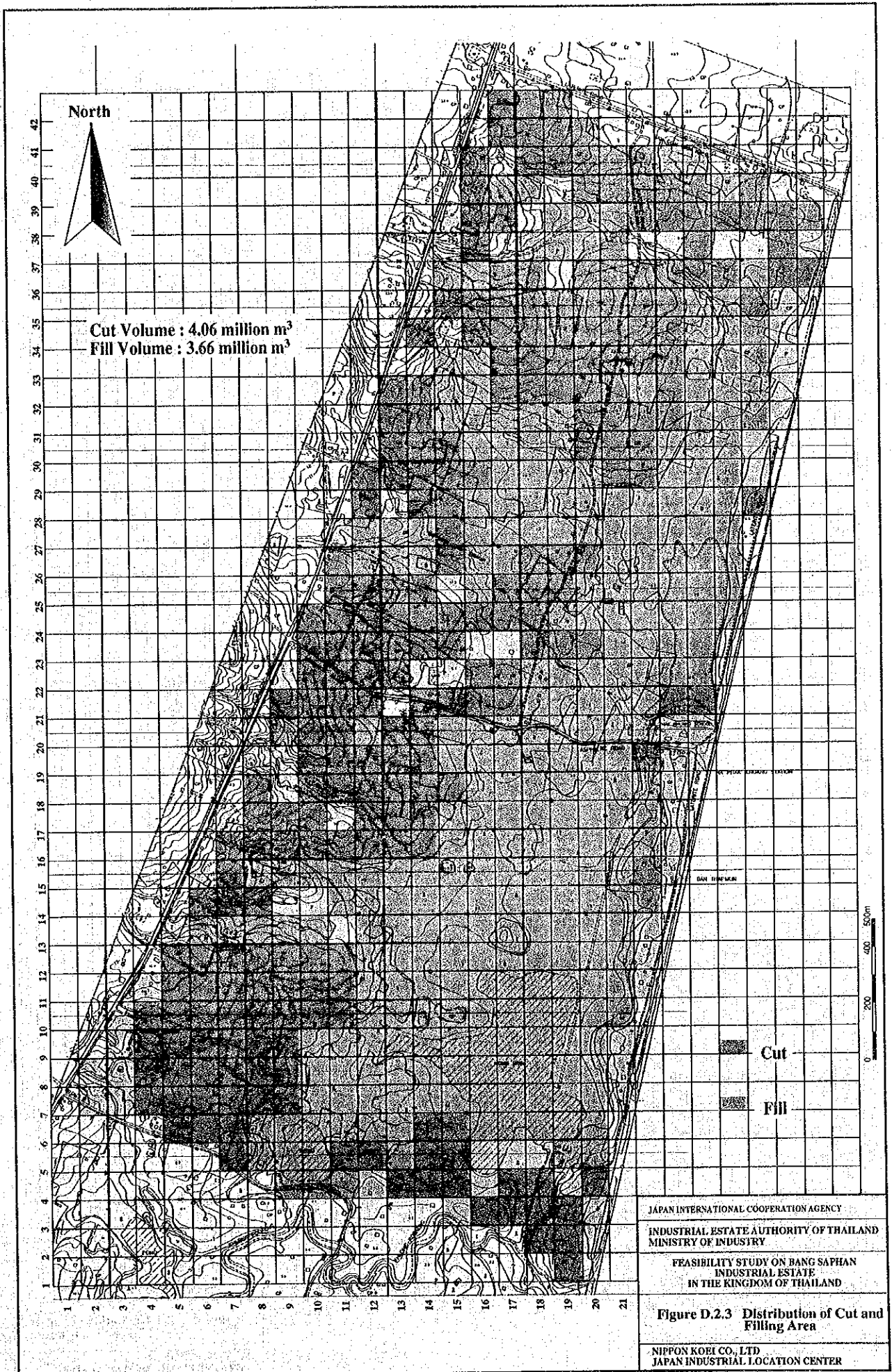
ARCA
00403 SOKM
6279-0-7951 RJ

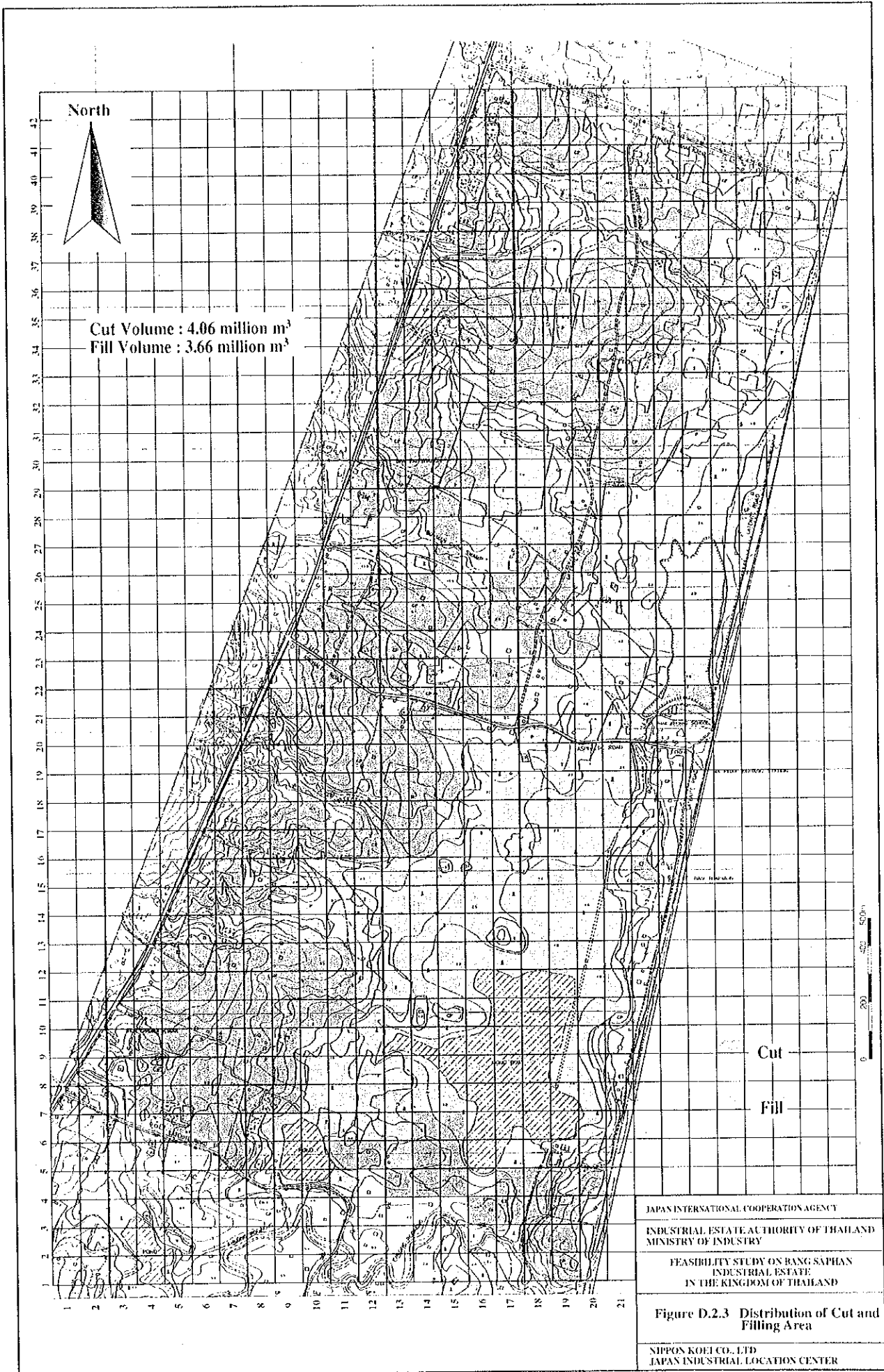
JAPAN INTERNATIONAL COOPERATION AGENCY
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MINISTRY OF INDUSTRY

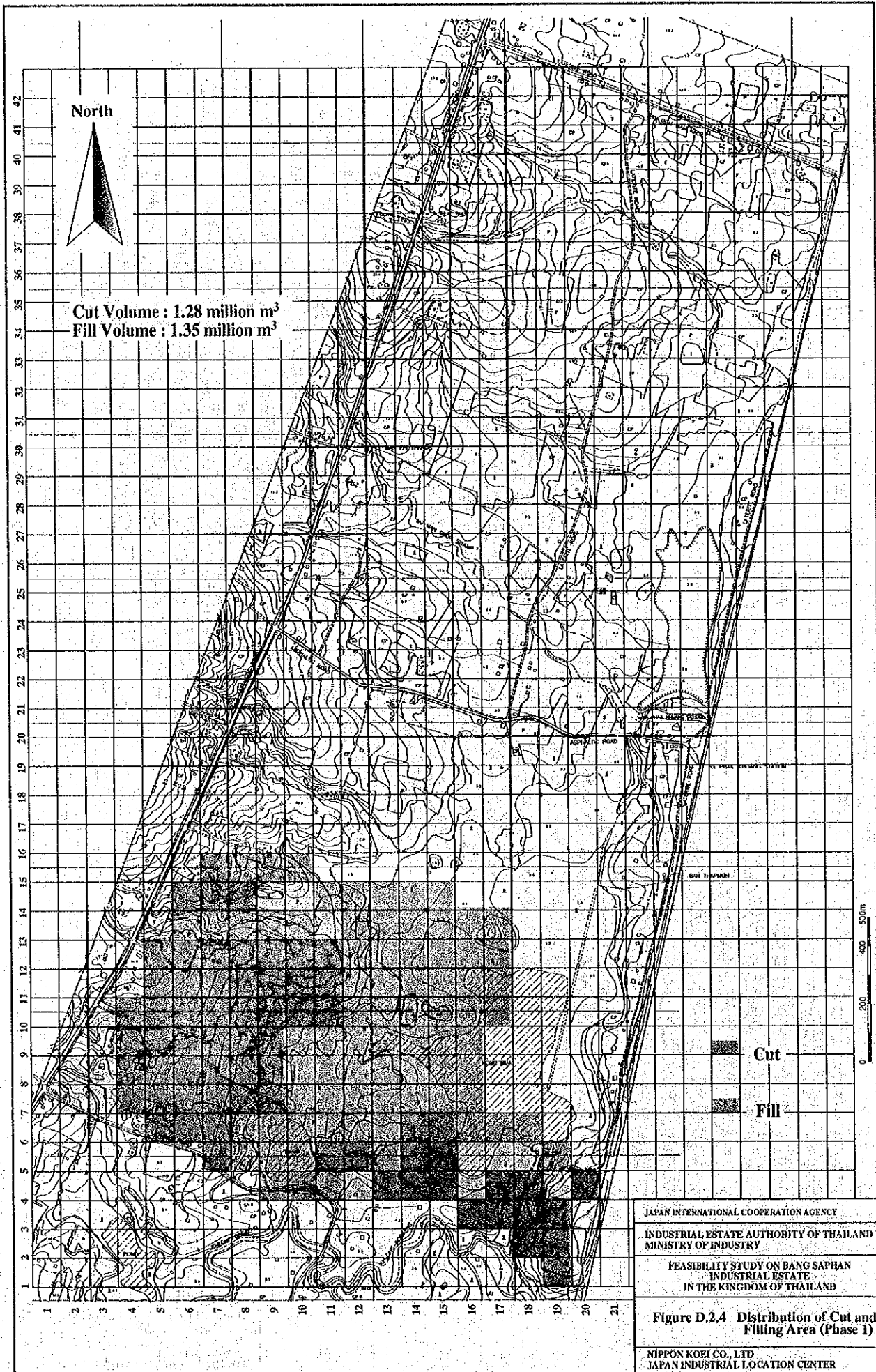
FEASIBILITY STUDY ON BANG SAPHAN
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IN THE KINGDOM OF THAILAND

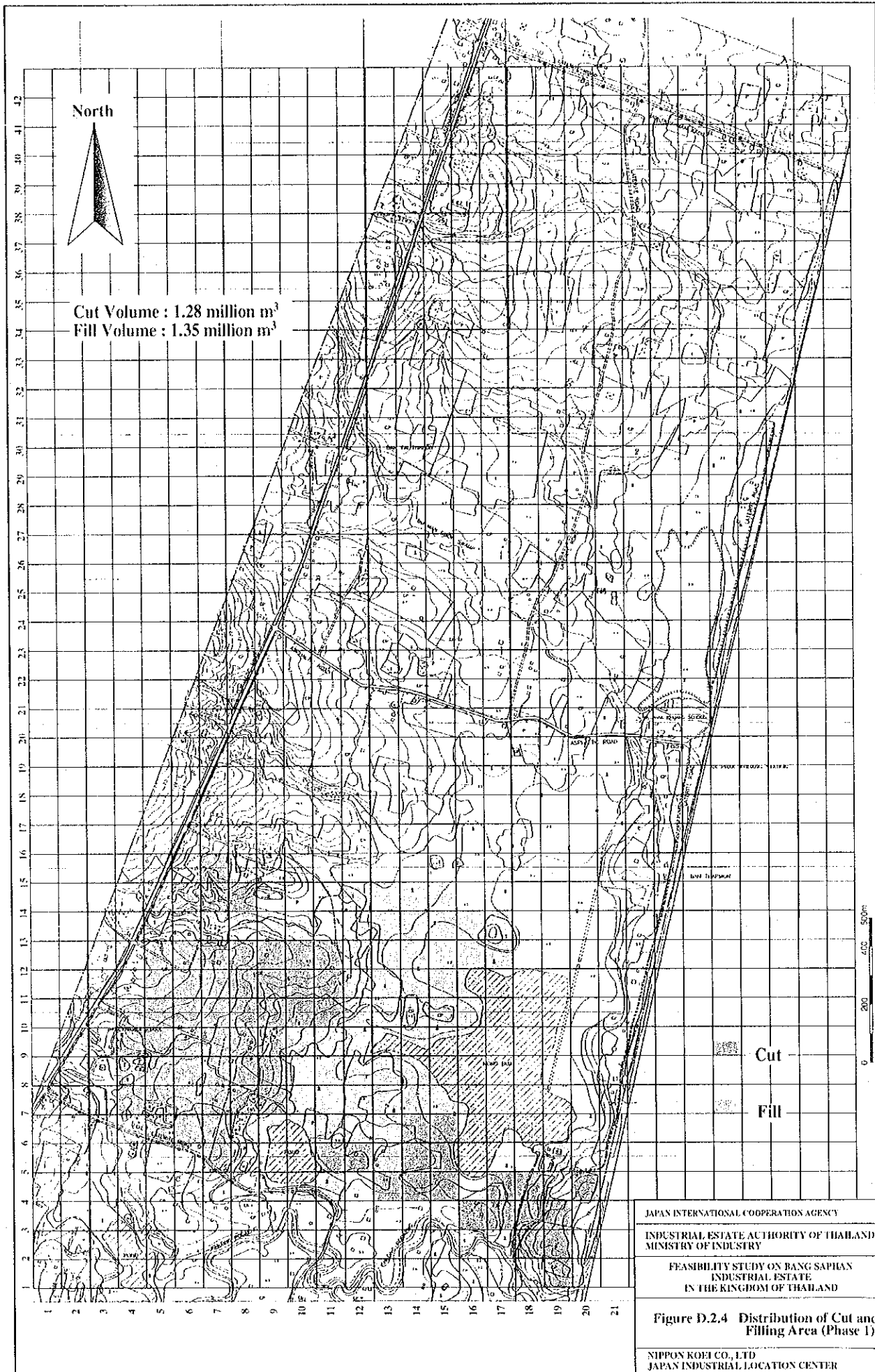
Figure D.2.2 Land Grading Plan

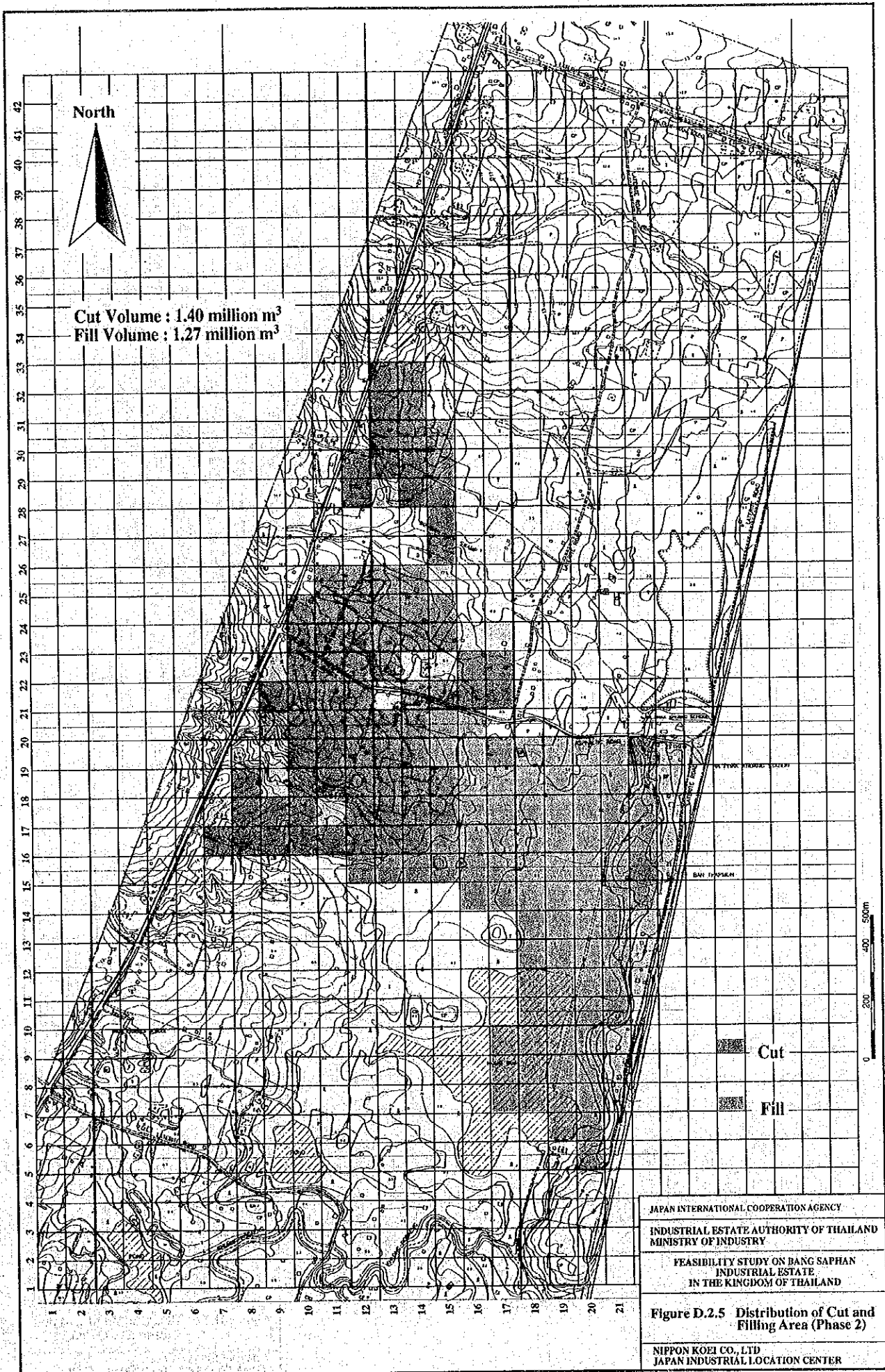
NIPPON KOEI CO., LTD
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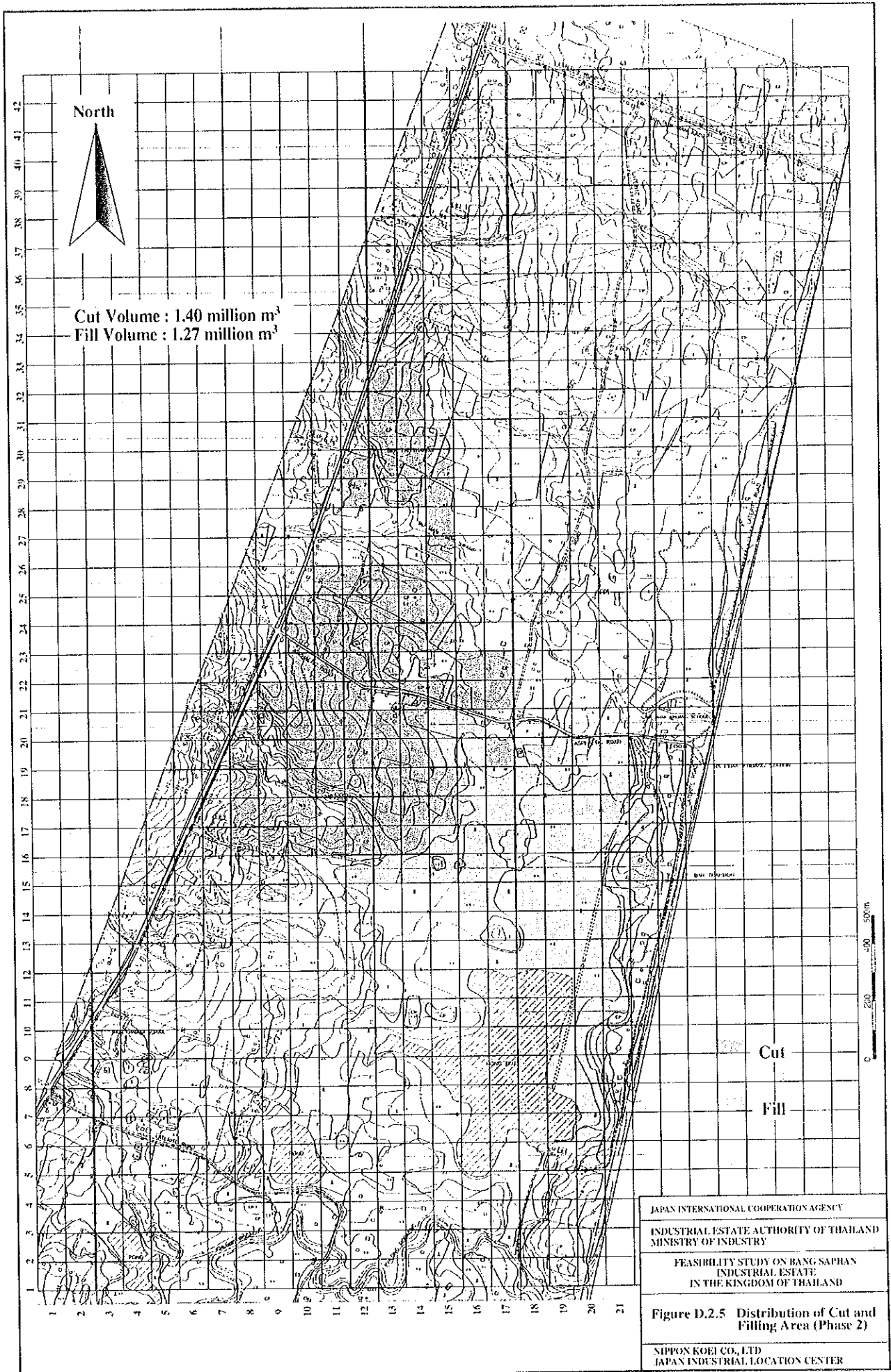


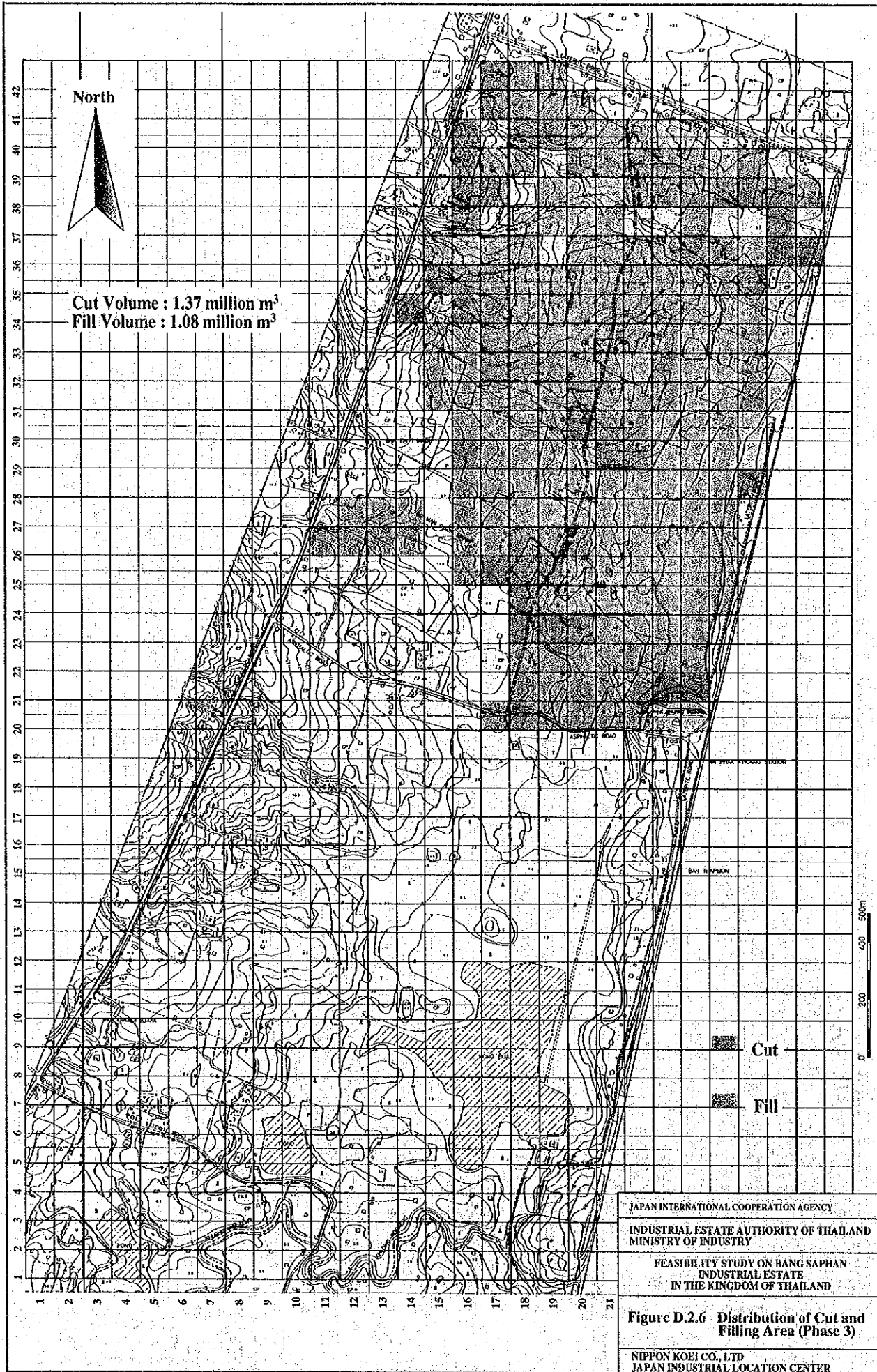


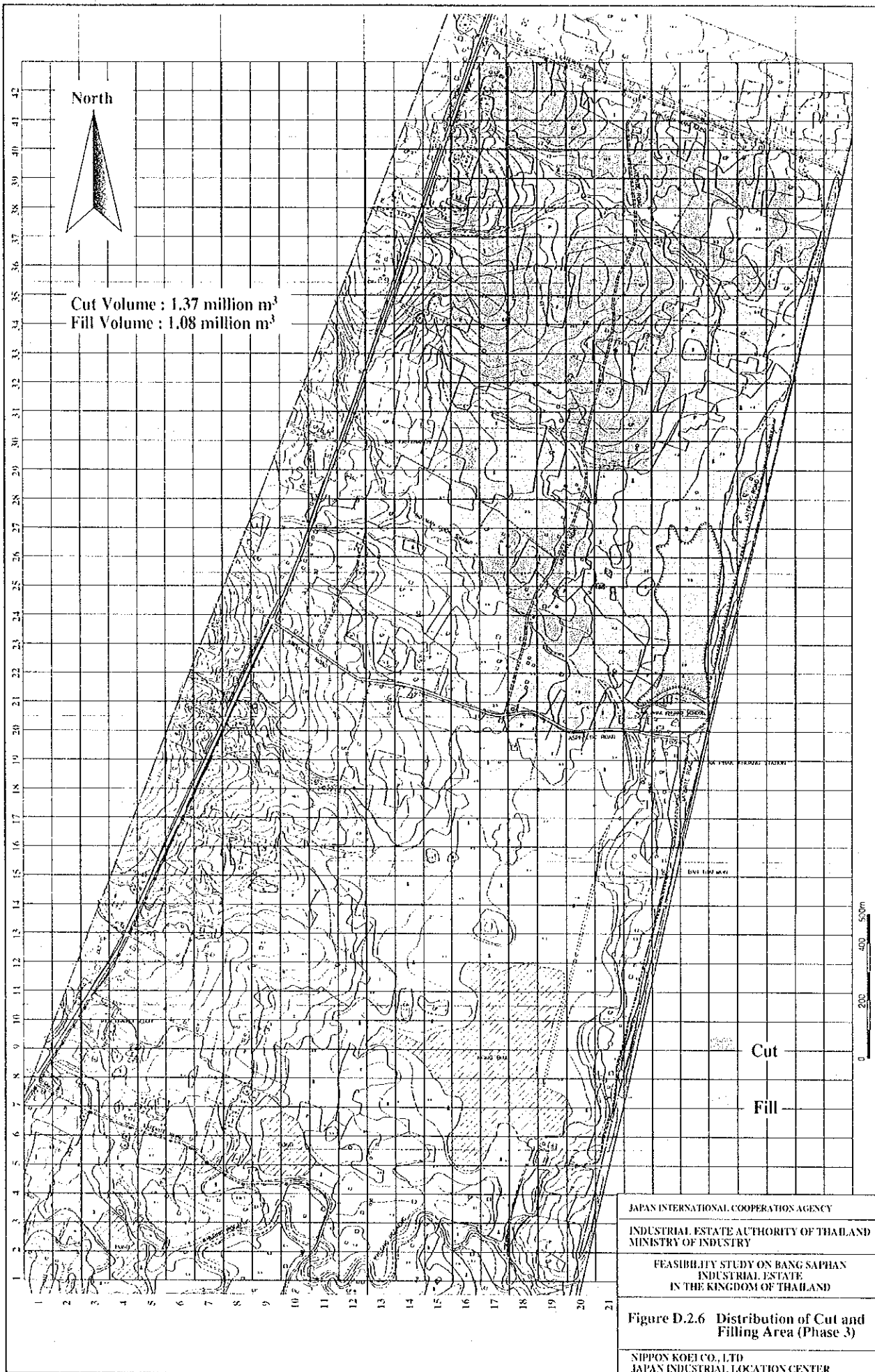




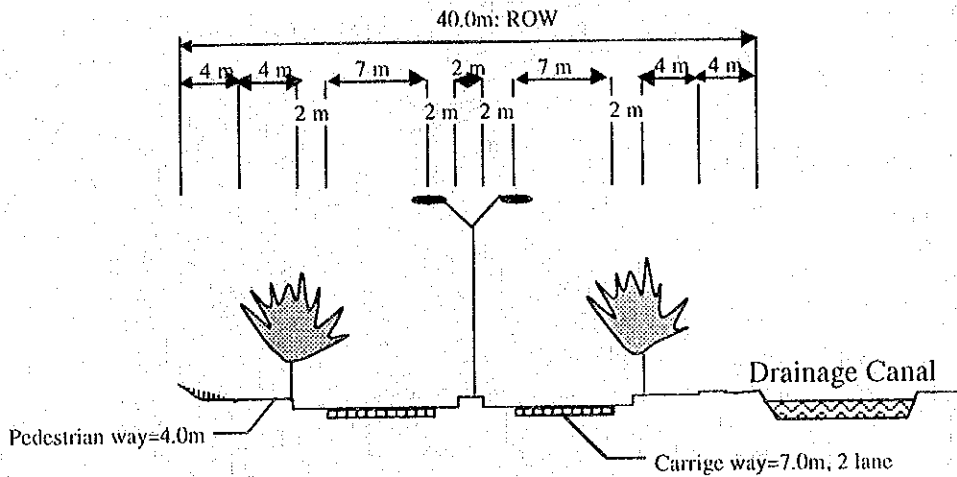




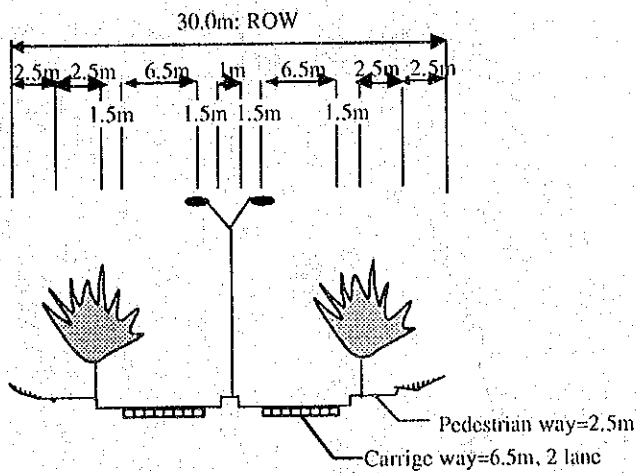




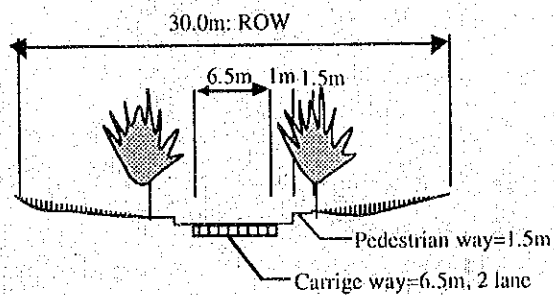
Main Road : 4 lanes with Median
Right of Way : 40 meters



Sub-Main Road : 4 lanes with Median
Right of Way : 30.0 meters








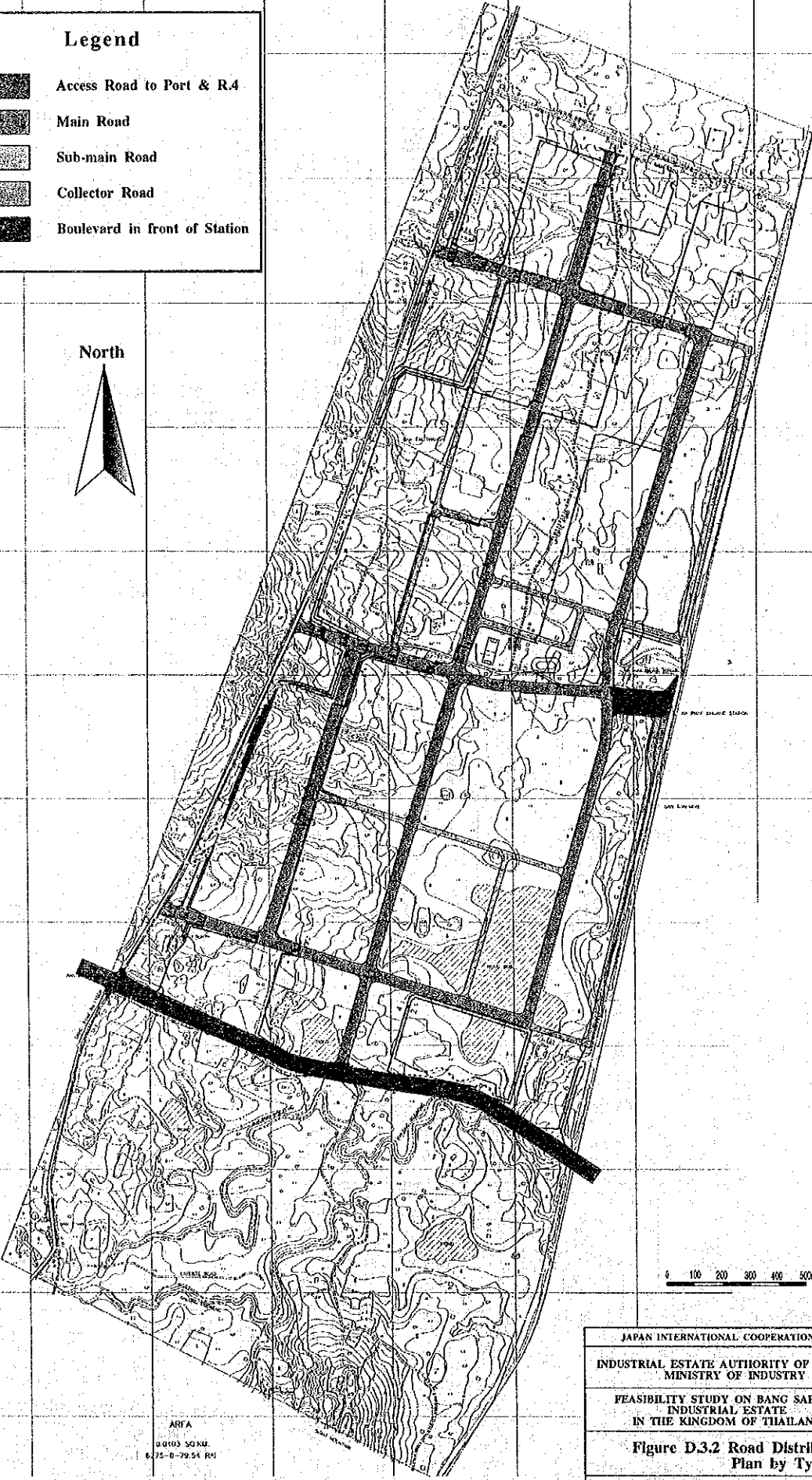
Collector Road : 2 lanes with Median
Right of Way : 30.0 meters



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Figure D.3.1 Standard Section of Road
NIPPON KOBAN CO., LTD. JAPAN INDUSTRIAL LOCATION CENTER

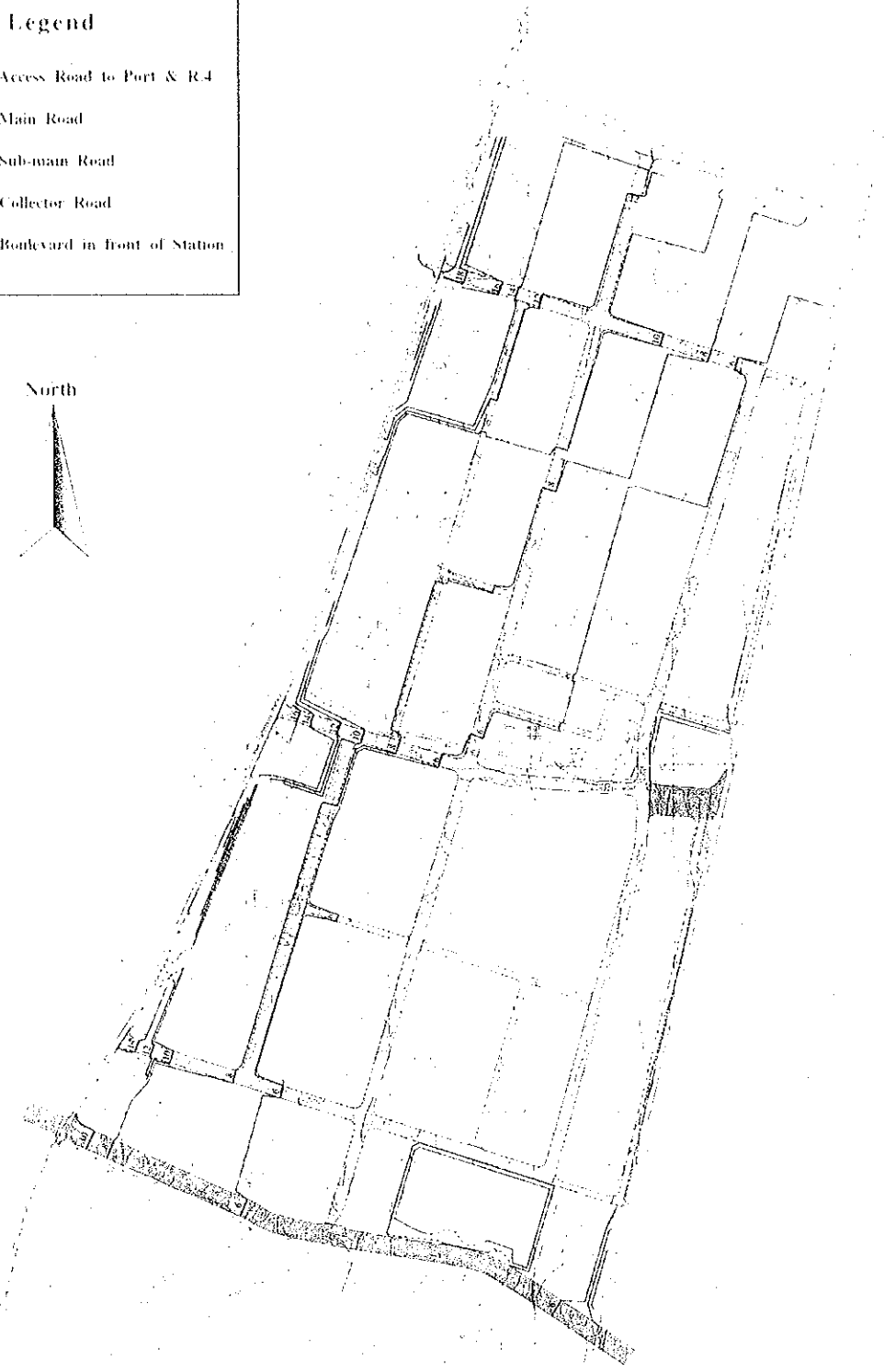
Legend






-  Access Road to Port & R.R.
-  Main Road
-  Sub-main Road
-  Collector Road
-  Boulevard in front of Station



ARFA
0.0003 SOXII
6.75-0-79.54 RM

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 IN THE KINGDOM OF THAILAND
**Figure D.3.2 Road Distribution
 Plan by Type**
 NIPPON KOEI CO. LTD
 JAPAN INDUSTRIAL LOCATION CENTER

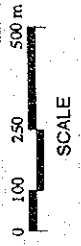
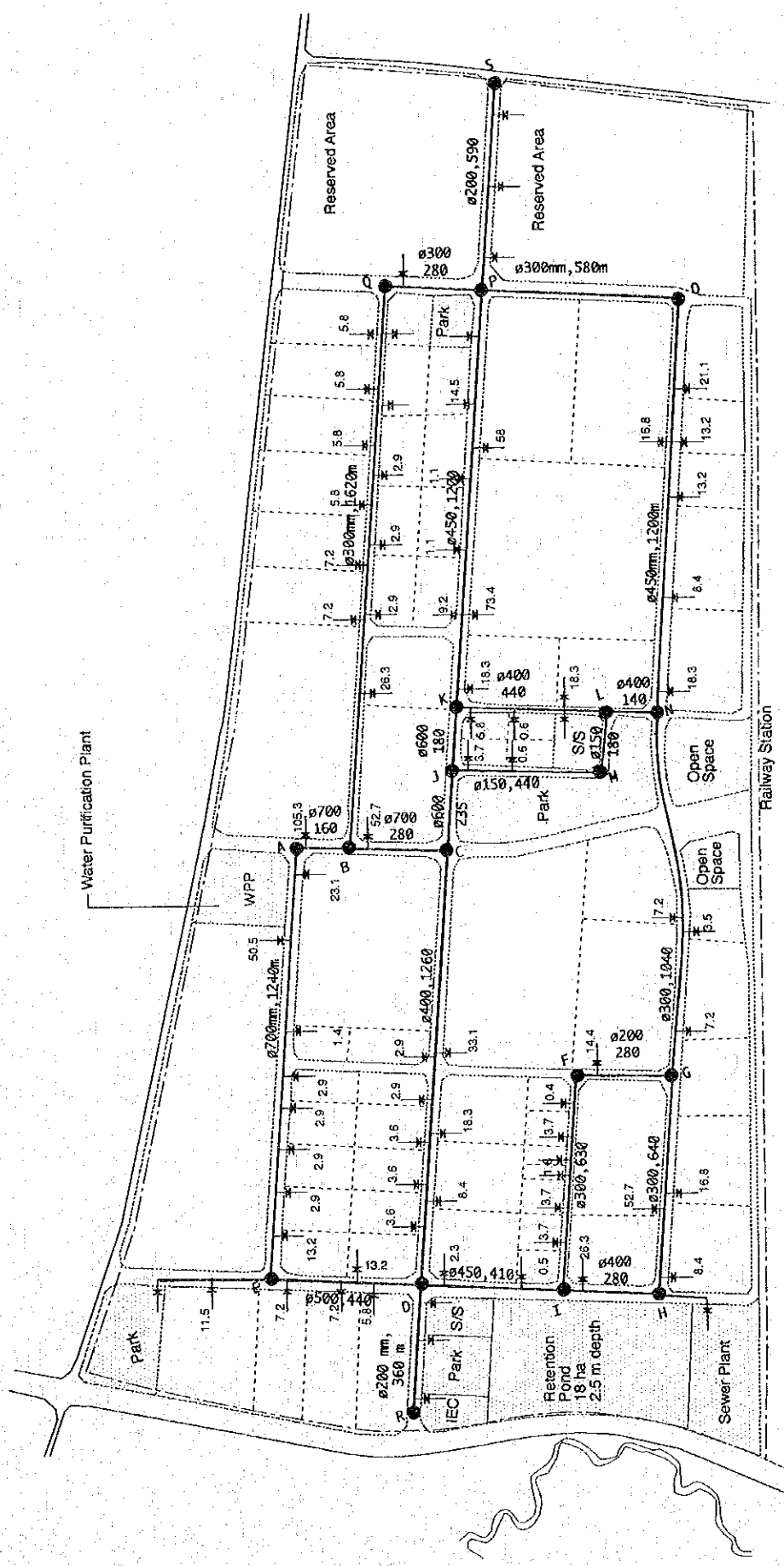


Legend	
	Access Road to Port & R-4
	Main Road
	Sub-main Road
	Collector Road
	Boulevard in front of Station

North



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FEASIBILITY STUDY ON BANG SAPHAN INDUSTRIAL ESTATE IN THE KINGDOM OF THAILAND
Figure D.3.2 Road Distribution Plan by Type
NIHON KOGI CO., LTD. JAPAN INDUSTRIAL LOCATION CENTER



SCALE