



GOVERNMENT OF MALAYSIA

THE FEASIBILITY STUDY ON
TRANSPORTATION FACILITIES PROJECTS
IN KLANG VALLEY

FINAL REPORT

FREIGHT TERMINAL PROJECT

DRAWINGS

JUNE 1989

JAPAN INTERNATIONAL COOPERATION AGENCY

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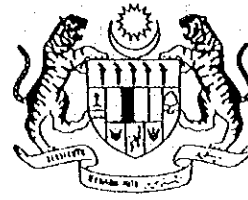
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GOVERNMENT OF MALAYSIA

THE FEASIBILITY STUDY ON
TRANSPORTATION FACILITIES PROJECTS
IN KLANG VALLEY

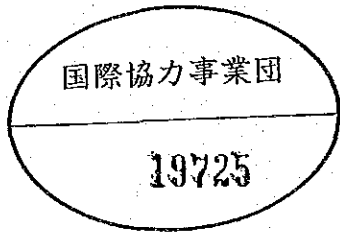
FINAL REPORT

FREIGHT TERMINAL PROJECT

DRAWINGS

JUNE 1989

JAPAN INTERNATIONAL COOPERATION AGENCY



国際協力事業団

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COMMON OUTLINE OF BUILDING FACILITY

Facility	Structure	Storey	Main Finishing		Remarks
			External	Internal	
Platform	Steel & RC	1	*R - Coloured ribbed metal roofing	*F - Hardener on concrete slab	-
Site Office	RC	2	*R - Cement screed on water proofing membrane *W - Facing brick	*F - Terrazo tiles *W - Cement and sand plaster	Air Conditioner
Administration Building	RC	1	*R - Cement screed on water proofing membrane *W - Facing brick *Co - Monier paving	*F - Terrazo tiles *W - Cement and sand plaster *Ce - Accoustic gypsum board	Air Conditioner
Warehouse	Steel & RC	1	*R - Coloured ribbed metal *W - Facing brick	*F - Hardener on concrete slab *W - Cement and sand plaster	Sprinkler
Engineering Service Station	Steel & RC	1	*R - Coloured ribbed metal *W - Facing brick	*F - Hardener on concrete slab *W - Cement and sand plaster on water proofing membrane	3 ton Hoist
Petrol Station Office	RC	1	*R - Cement screed on water proofing membrane *W - Facing brick	*F - Cement and sand mortar *W - Cement and sand mortar on water proofing membrane	-




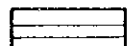

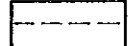
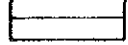
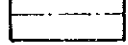
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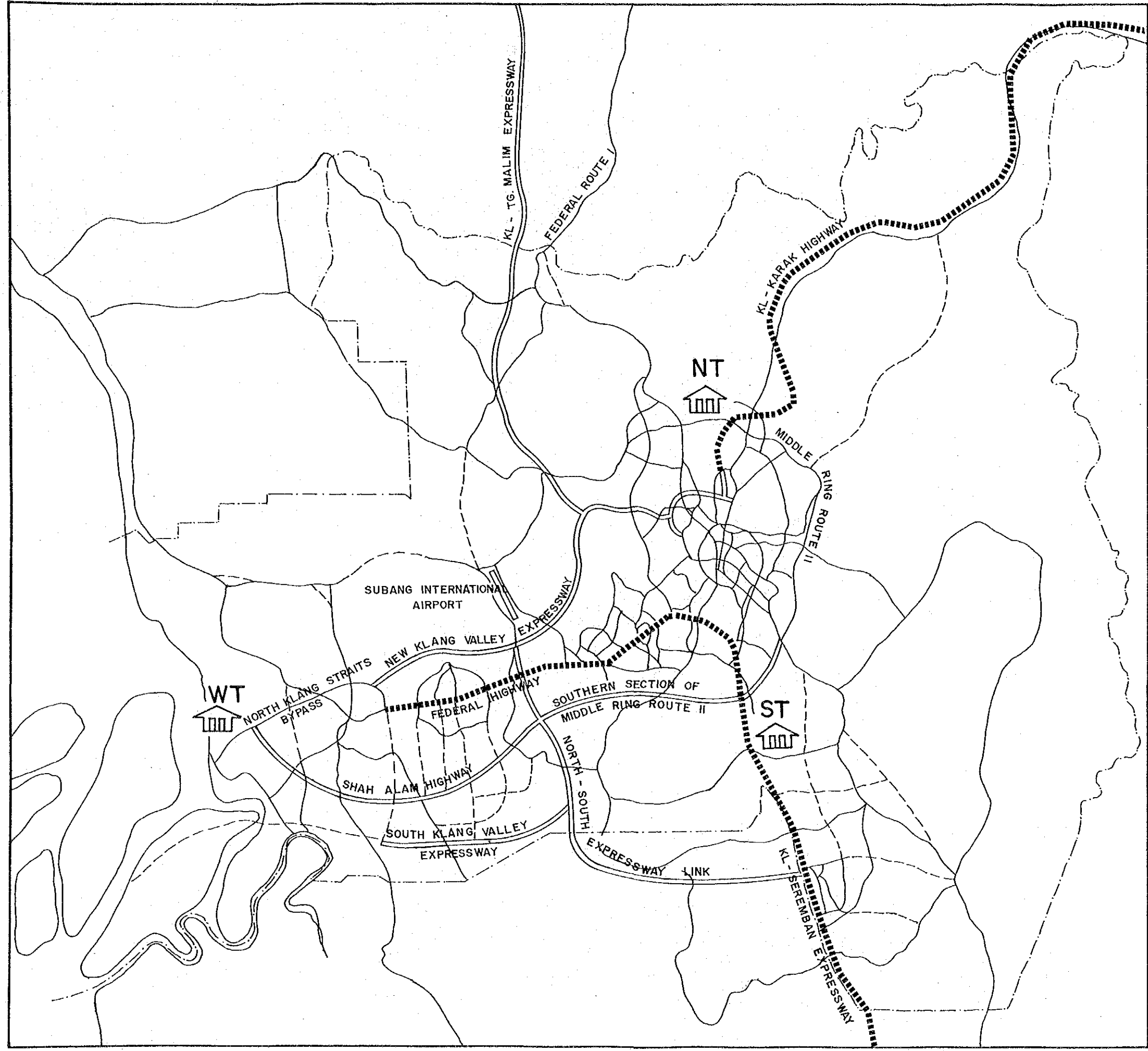
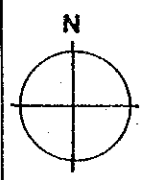
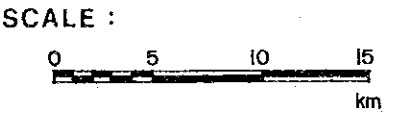
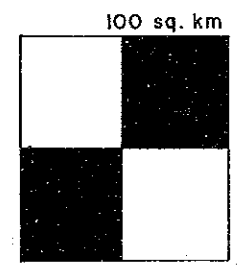
- R - Roof
- W - Wall
- F - Floor
- Co - Court
- Ce - Ceiling

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

THE LOCATION OF FREIGHT TERMINALS

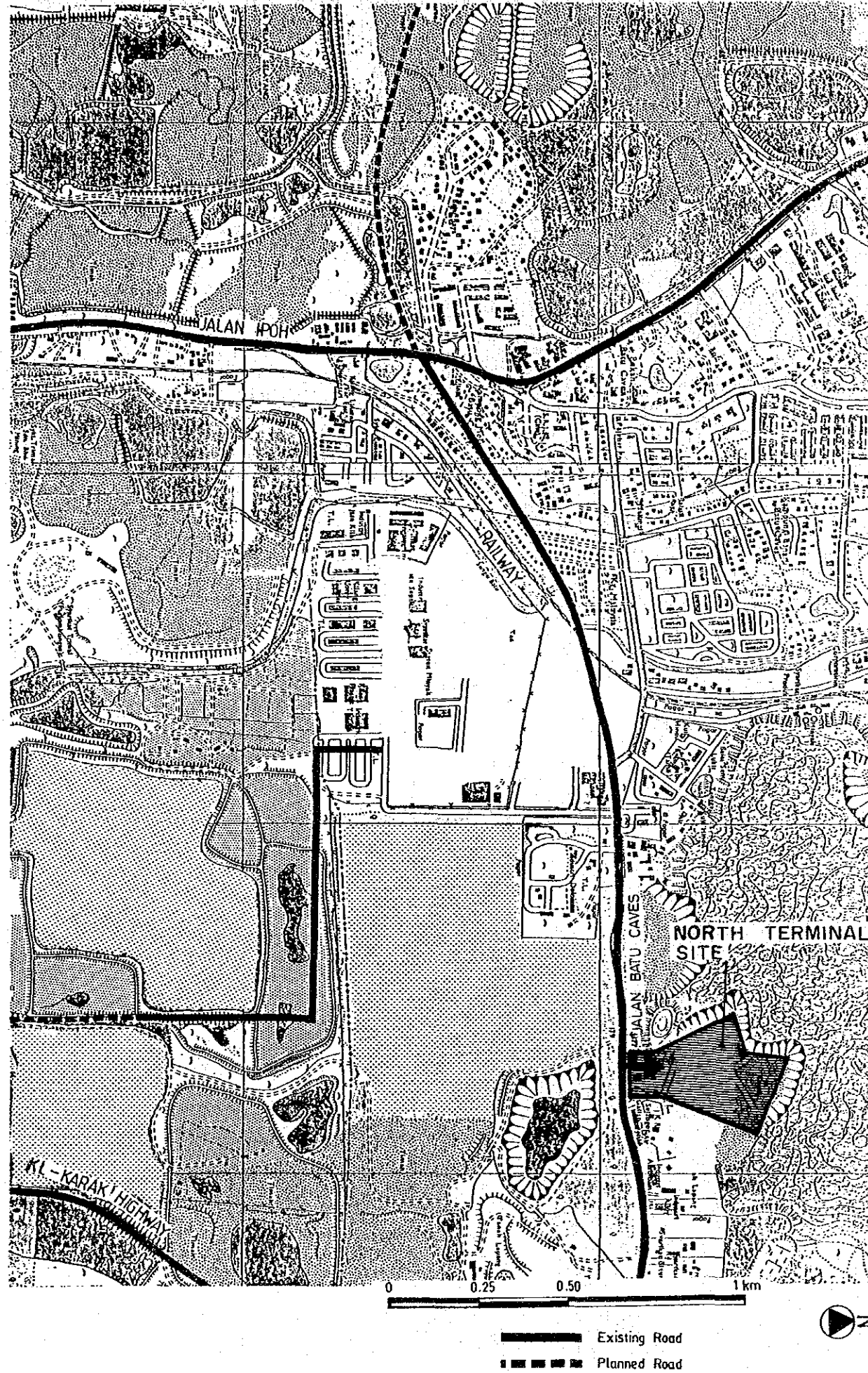
LEGEND :

-  NORTH FREIGHT TERMINAL
-  SOUTH FREIGHT TERMINAL
-  WEST FREIGHT TERMINAL
-  PROPOSED HIGHWAY
-  EXISTING HIGHWAY
-  PROPOSED ROADS
-  EXISTING ROADS
-  KLANG VALLEY REGION



PROFILE OF NORTH TERMINAL

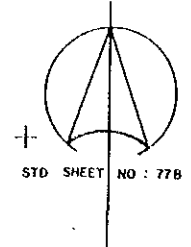
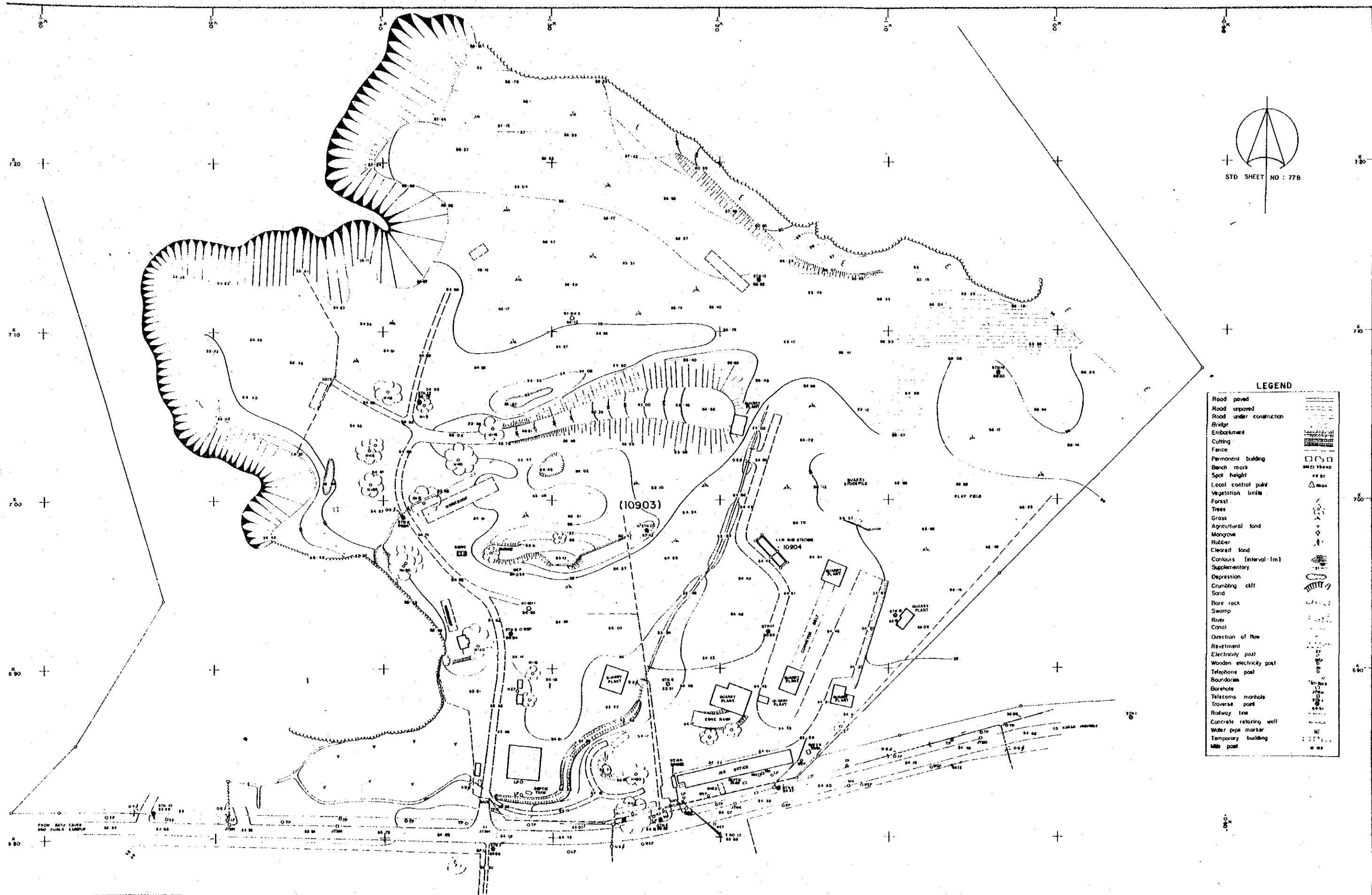
* LOCATION MAP



* AREA LIST

Built-up Floor Area (sq.m)		
Platform -1,2	9,060	(4,530 x 2)
Site Office -1,2,3,4	3,840	(960 x 4)
Administration Building	1,472	
Warehouse -1,2	2,592	(1,296 x 2)
Engineering Service Station	1,620	
Petrol Station Office	32	
Total	18,616	

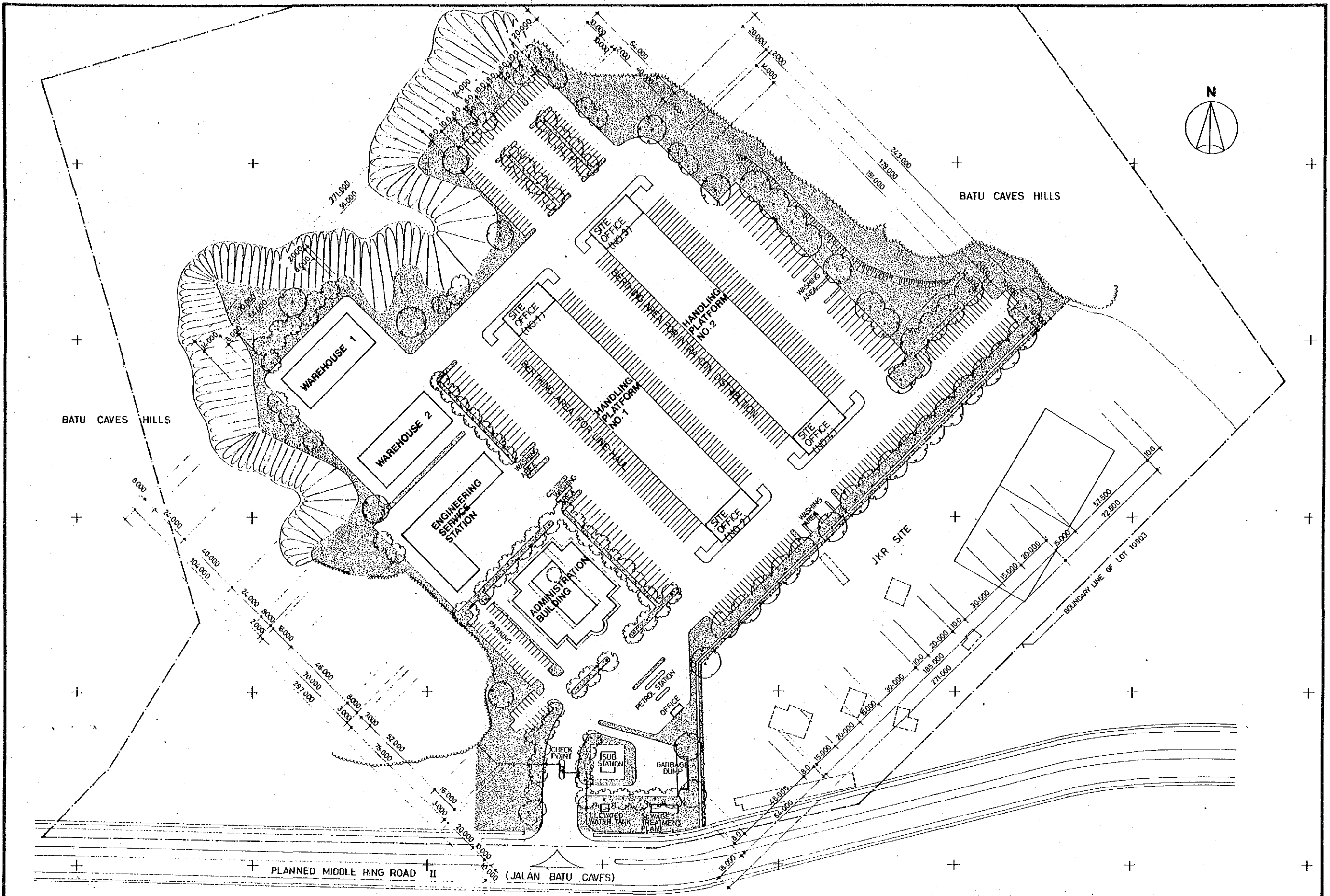
Site Area (sq.m)	
Platform and Site Office	13,200
Berthing Space - Line-haul Vehicle	4,600
Berthing Space - Intracity Vehicle	3,100
Administration Building	4,900
Warehouse	7,280
Engineering Service Station	5,880
Petrol Station	1,500
Lorry Parking	11,600
Car Parking	1,500
Vehicle Washing Space	700
Road Space	21,500
Turfing	20,940
Others	4,300
Total	101,000



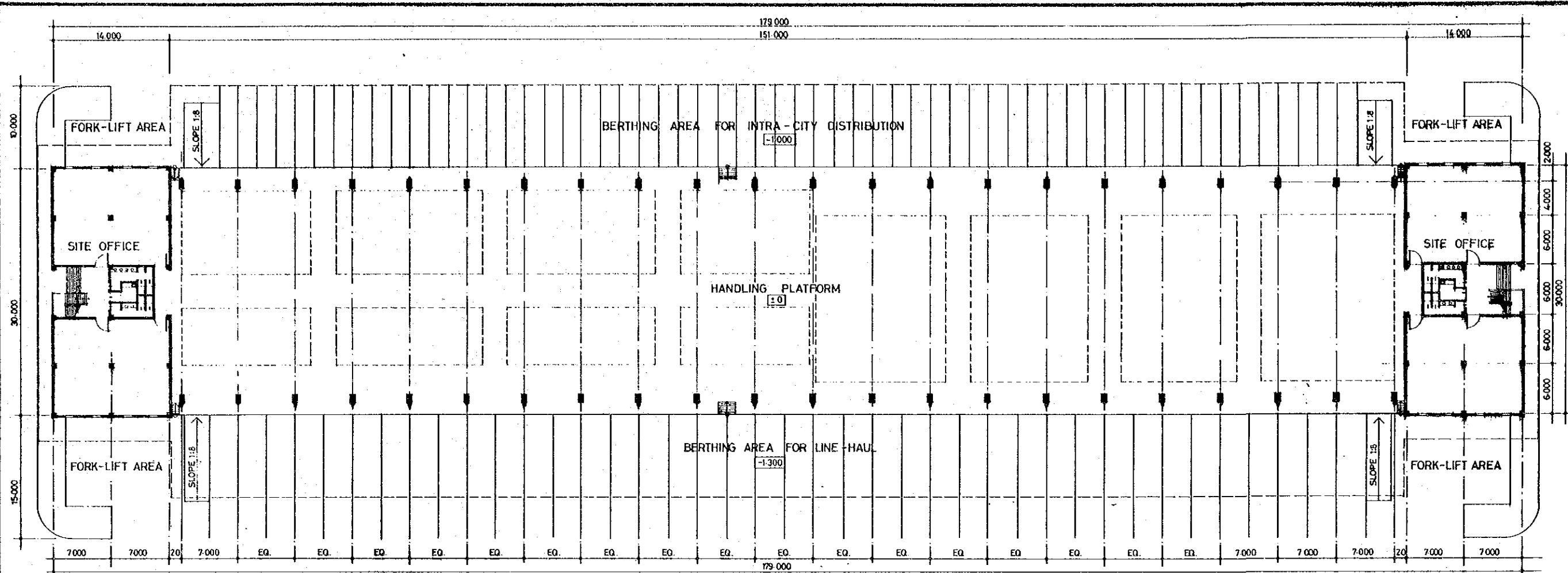
LEGEND

Road paved	—
Road unpaved	- - -
Road under construction	—+—
Bridge	—+—+—
Embankment	—+—+—+—
Cutting	—+—+—+—
Fence	—+—+—+—
Permanent building	□
Bench mark	⊕
Spot height	△
Local control point	△
Vegetation limits	—
Forest	—
Trees	—
Grass	—
Agricultural land	—
Mangrove	—
Rubber	—
Cleared land	—
Contour (interval: 1m)	—
Supplementary	—
Depression	—
Crumbing cliff	—
Sand	—
Bare rock	—
Swamp	—
River	—
Canal	—
Direction of flow	—
Revetment	—
Electricity post	—
Wooden electricity post	—
Telephone post	—
Boundary	—
Borehole	—
Telecoms manhole	—
Traverse post	—
Railway line	—
Concrete retaining wall	—
Water pipe marker	—
Temporary building	—
Map post	—

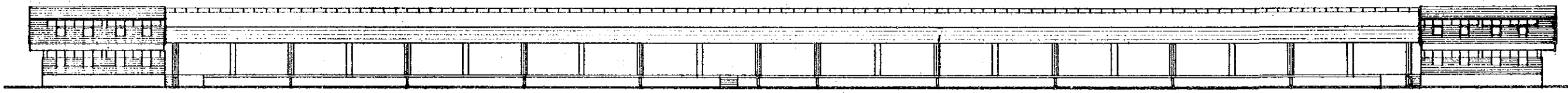
FREIGHT TERMINAL PROJECT		SCALE : 1:2000		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY	
NORTH TERMINAL	TOPOGRAPHIC FEATURES	DRAWING NO : N-0	DATE : JULY 1988	JAPAN INTERNATIONAL COOPERATION AGENCY	



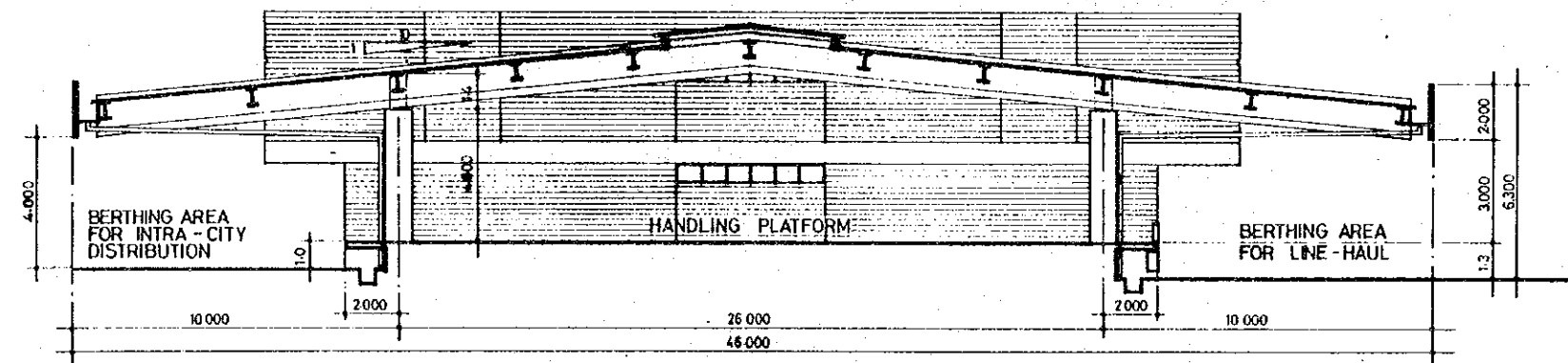
FREIGHT TERMINAL PROJECT NORTH TERMINAL		SCALE : 1:2000		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY JAPAN INTERNATIONAL COOPERATION AGENCY
		DRAWING NO : N - 1		
SITE PLAN				



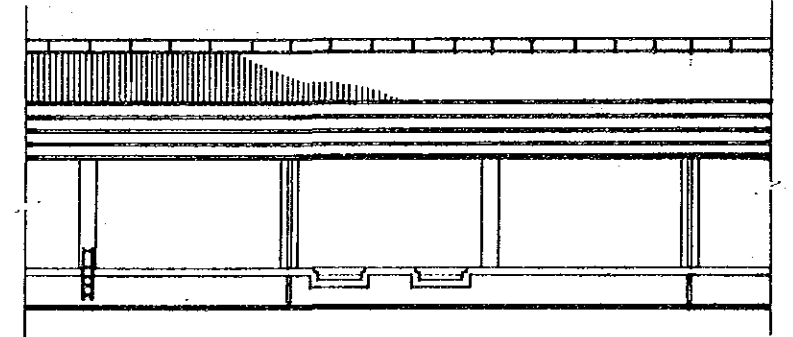
PLAN SCALE 1:500



ELEVATION SCALE 1:500

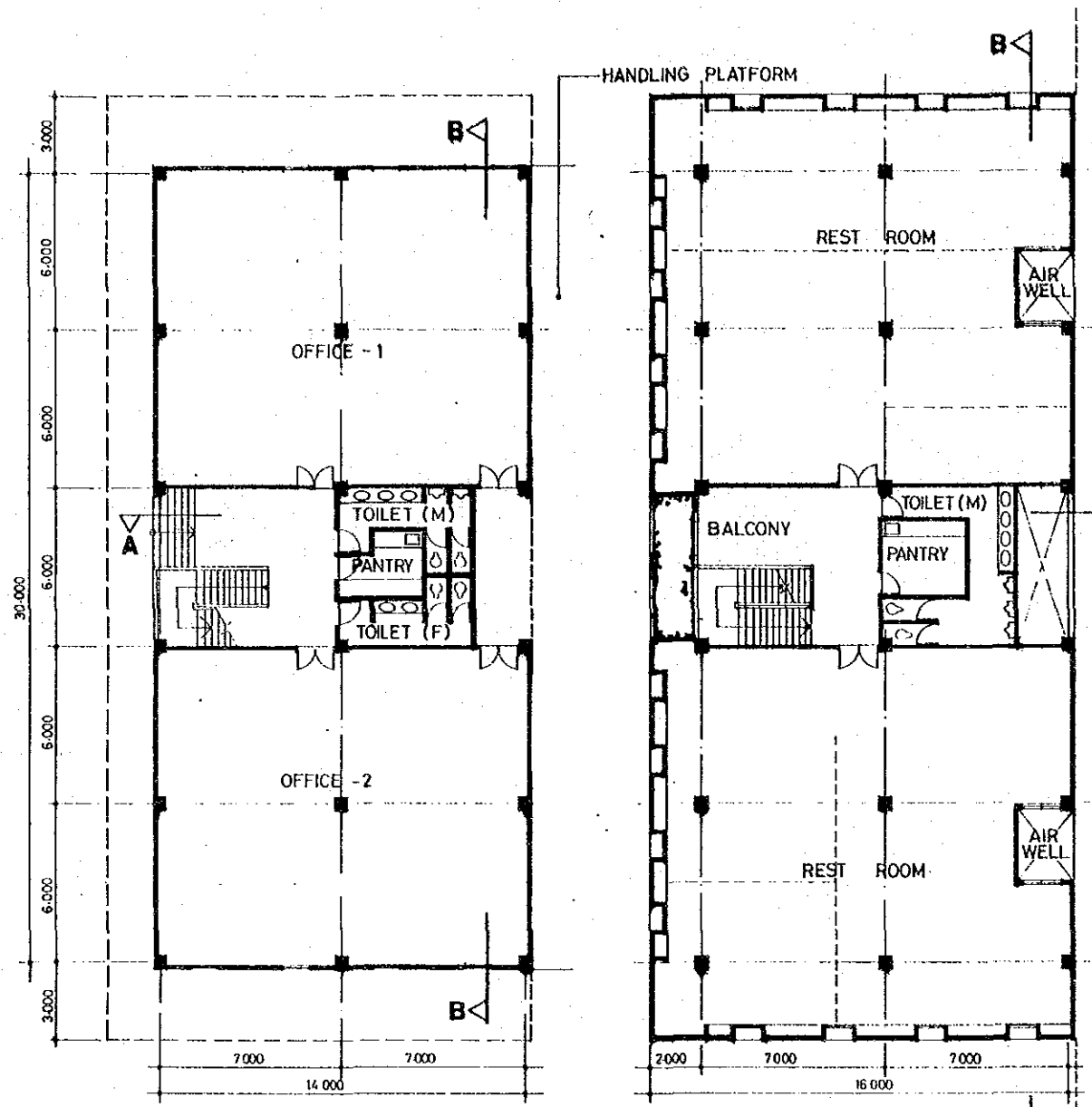


SECTION SCALE 1:250



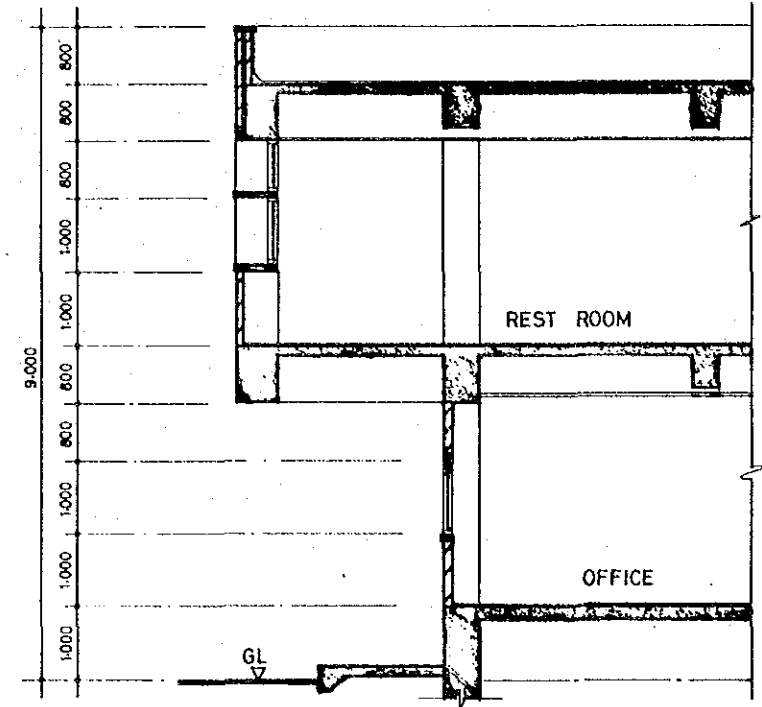
PARTIAL ELEVATION SCALE 1:250

<p>FREIGHT TERMINAL PROJECT</p>		<p>SCALE : AS SHOWN</p>		<p>THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY</p>	
		<p>NORTH TERMINAL</p>	<p>PLATFORM</p>		

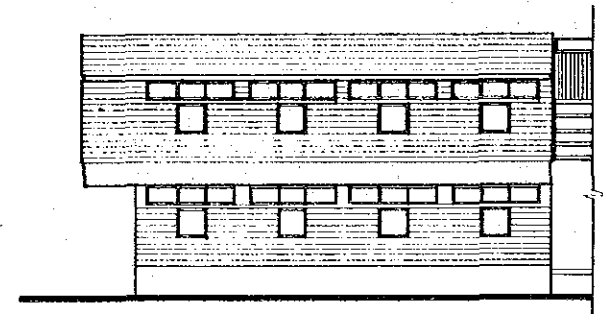


GROUND FLOOR PLAN
SCALE 1:250

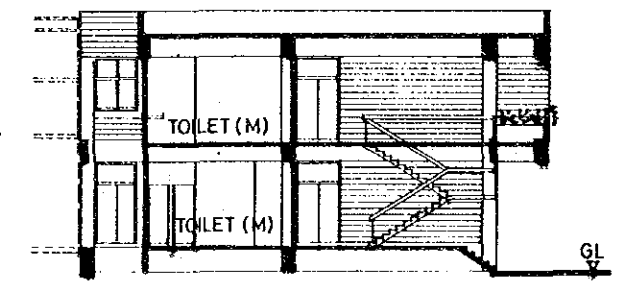
FIRST FLOOR PLAN
SCALE 1:250



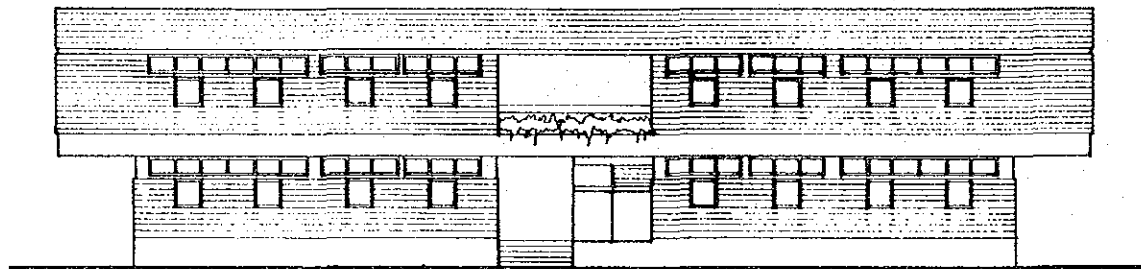
DETAIL SECTION
SCALE 1:100



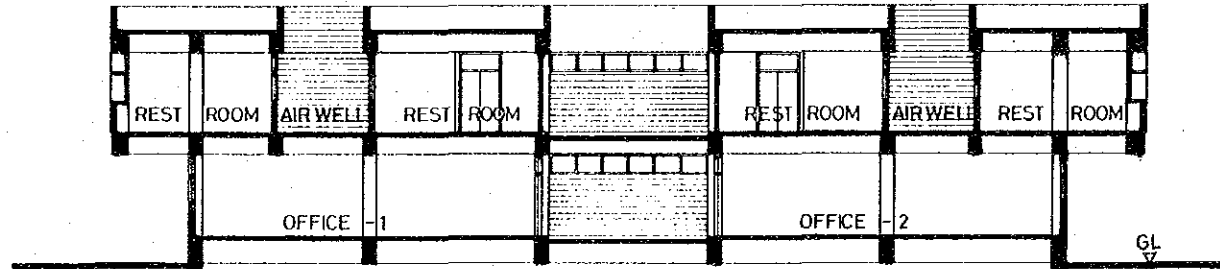
SIDE ELEVATION
SCALE 1:250



SECTION A - A
SCALE 1:250



END ELEVATION
SCALE 1:250



SECTION B - B
SCALE 1:250

FREIGHT TERMINAL PROJECT

NORTH TERMINAL

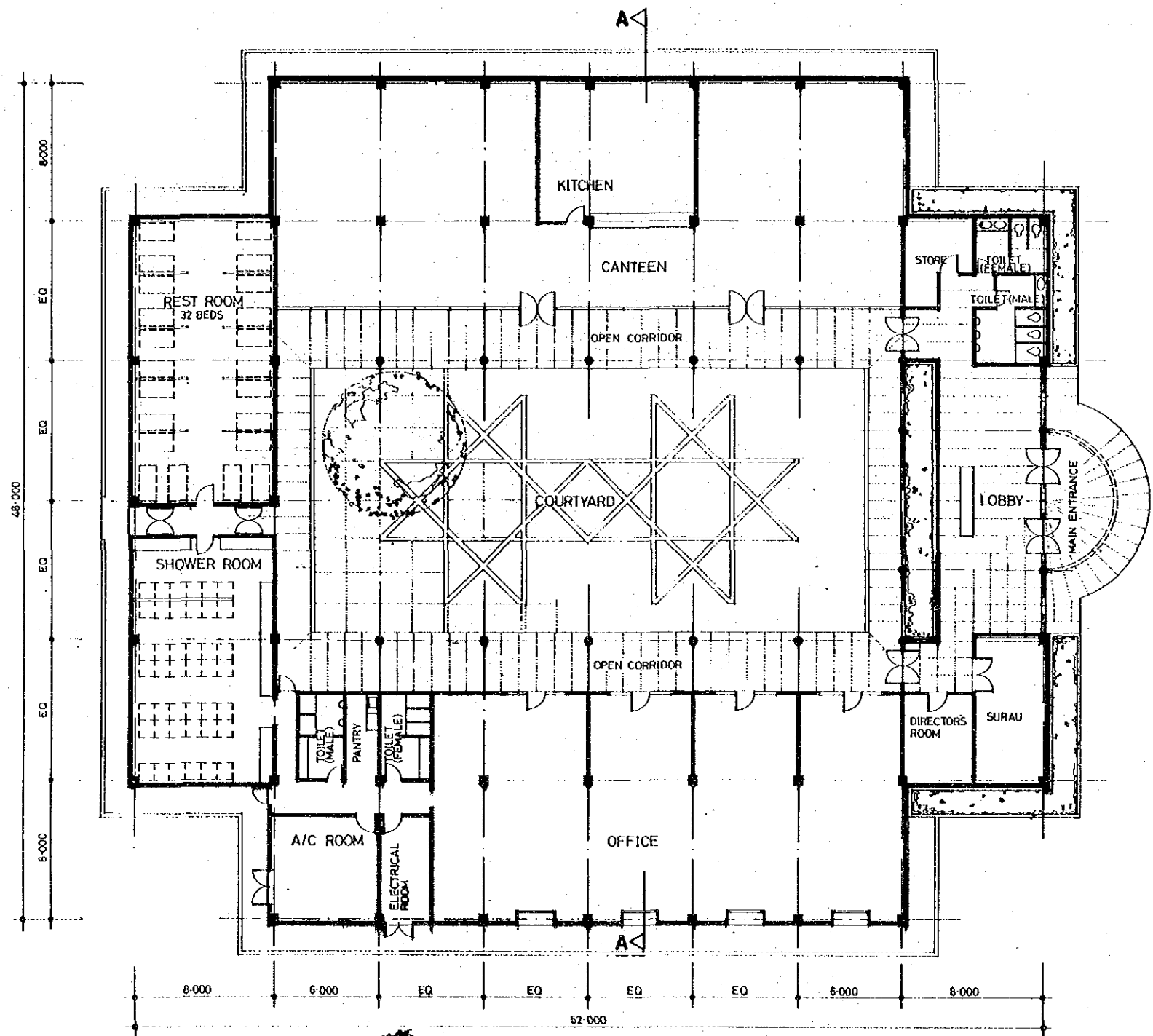
SITE OFFICE

SCALE : 1:250

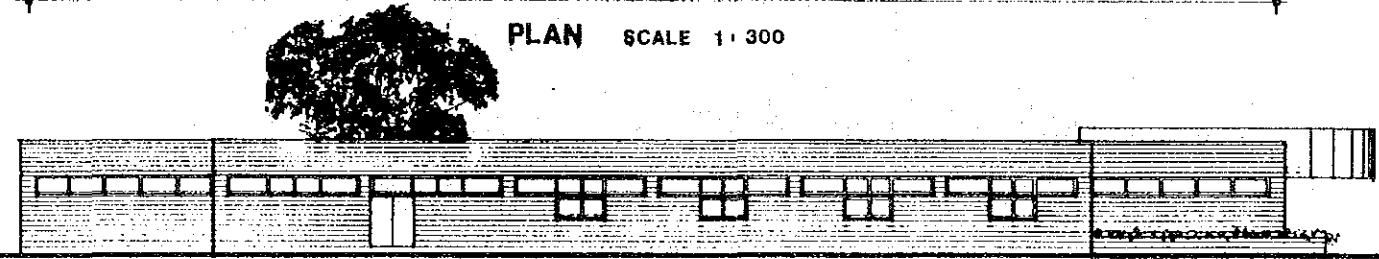
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DATE : JULY 1988

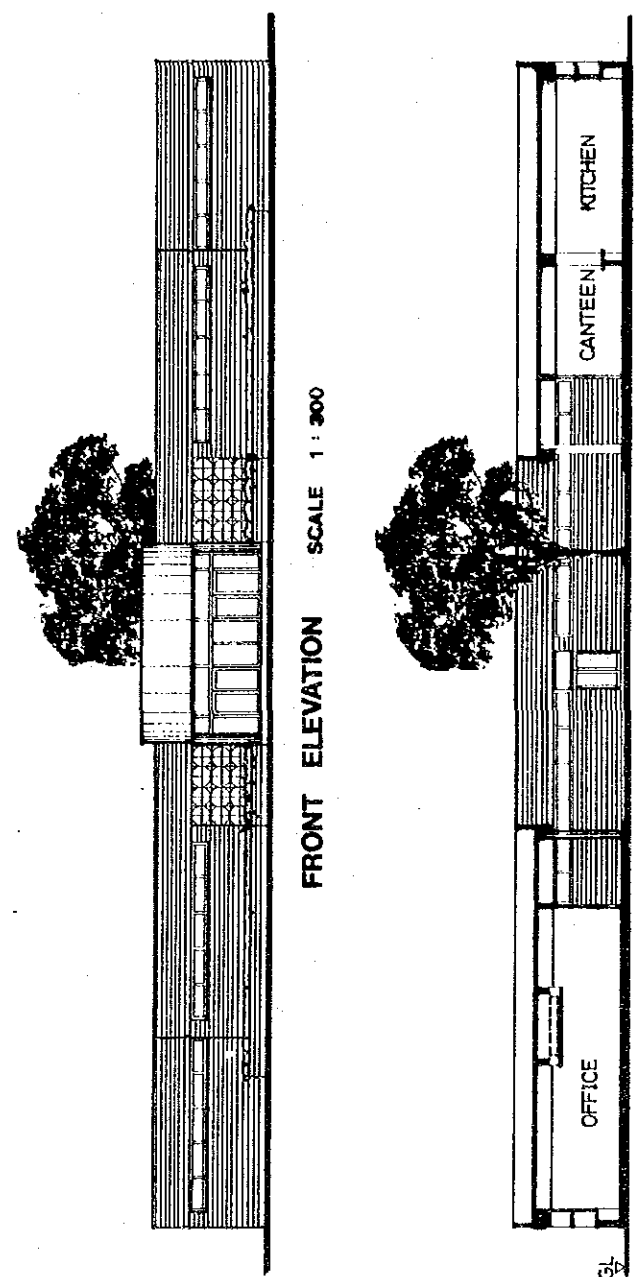
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN SCALE 1:300

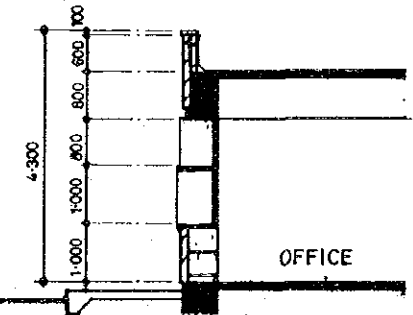


SIDE ELEVATION SCALE 1:300



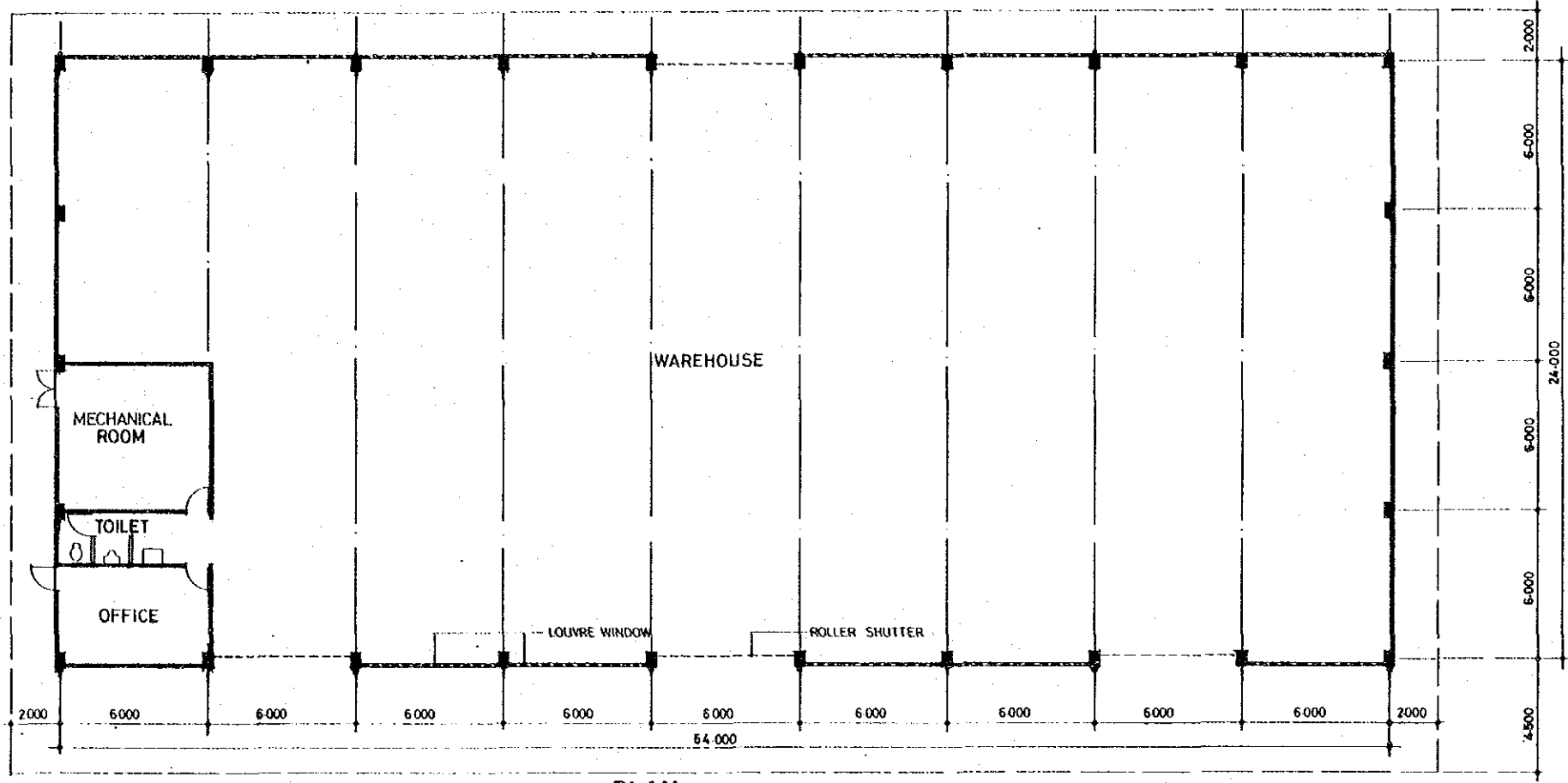
FRONT ELEVATION SCALE 1:300

SECTION A-A SCALE 1:300

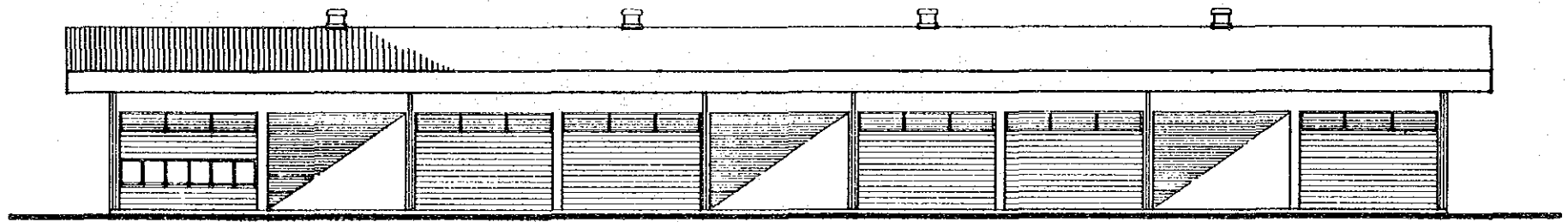


SECTION SCALE 1:125

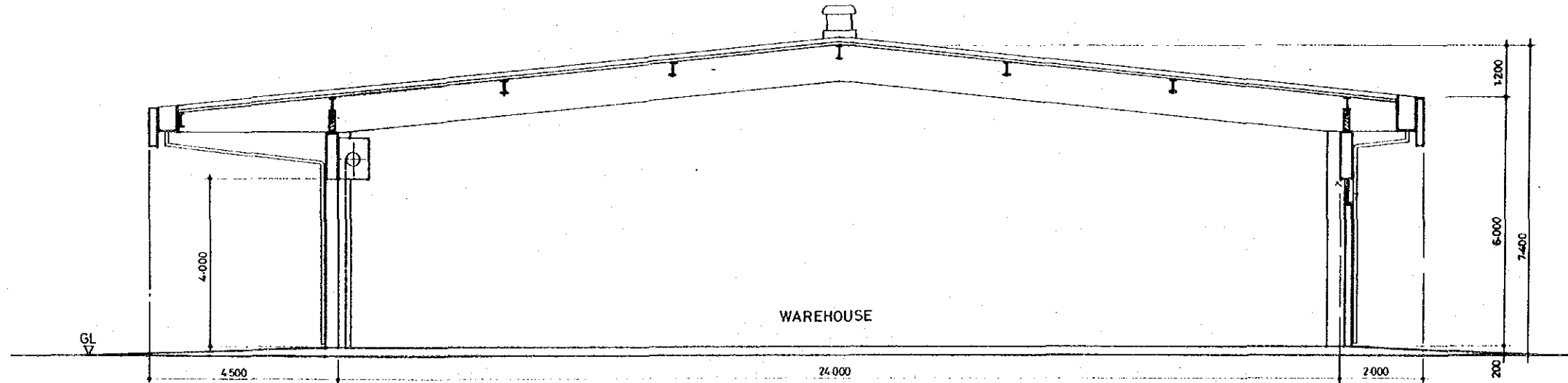
FREIGHT TERMINAL PROJECT		SCALE: AS SHOWN		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY	
NORTH TERMINAL	ADMINISTRATION BUILDING	DRAWING NO: N - 4	DATE: JULY 1988		



PLAN SCALE 1:250

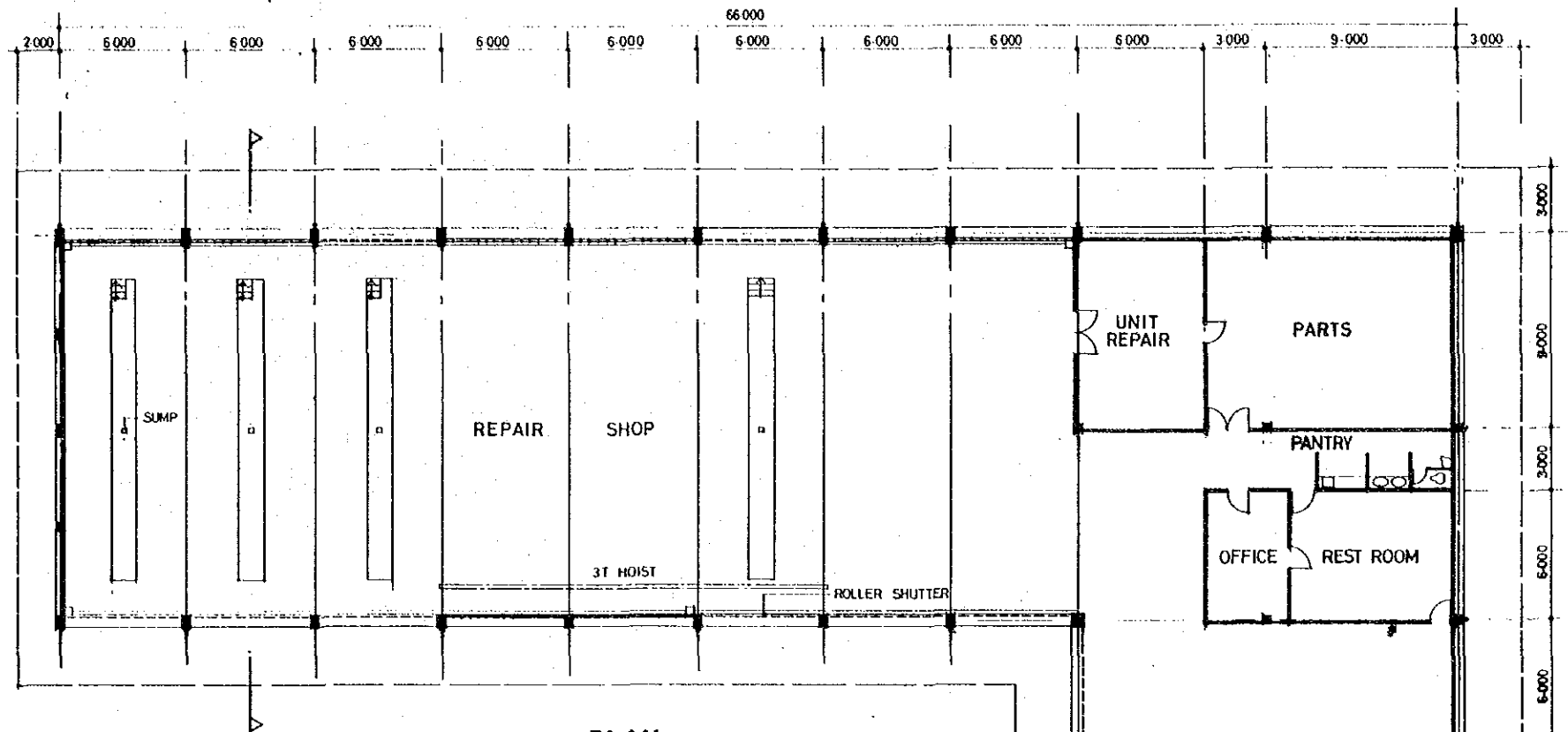


ELEVATION SCALE 1:250

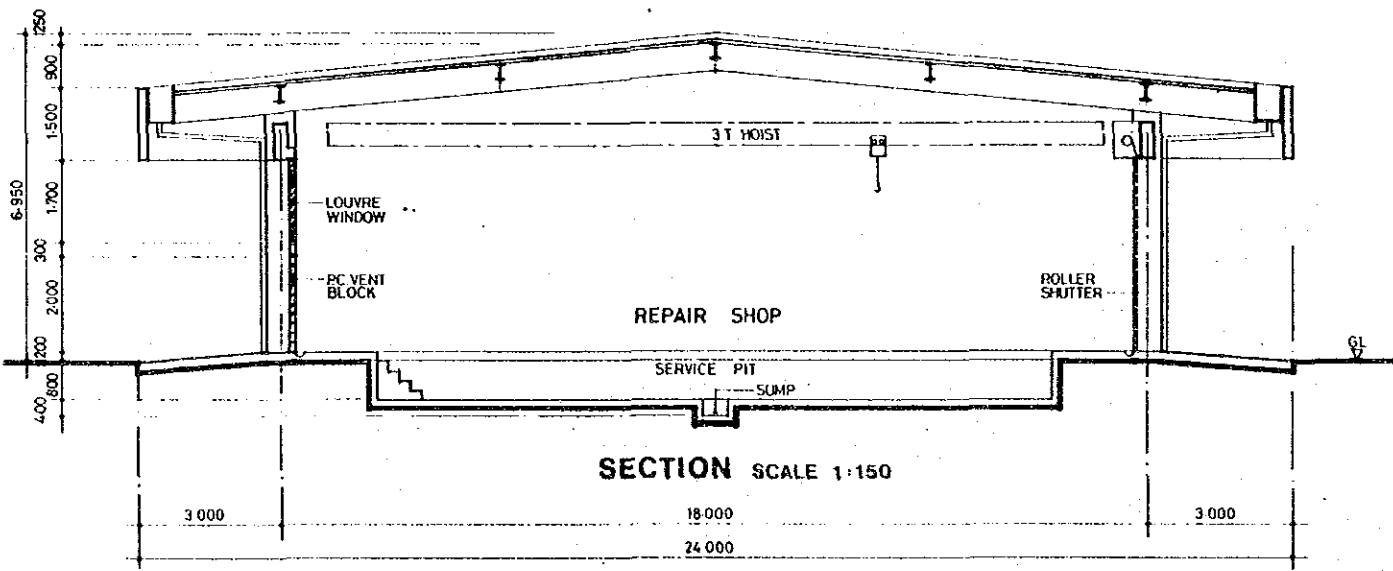


SECTION SCALE 1:125

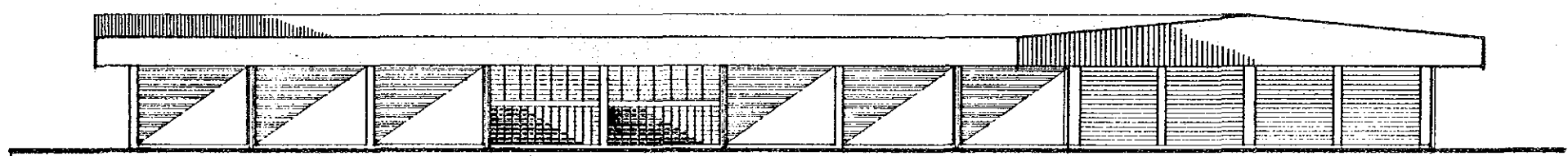
<p>FREIGHT TERMINAL PROJECT</p>		<p>SCALE : AS SHOWN</p>		<p>THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY</p>
		<p>DRAWING NO : N - 5</p>	<p>DATE : JULY 1988</p>	
<p>NORTH TERMINAL</p>	<p>WAREHOUSE</p>			



PLAN SCALE 1:300



SECTION SCALE 1:150

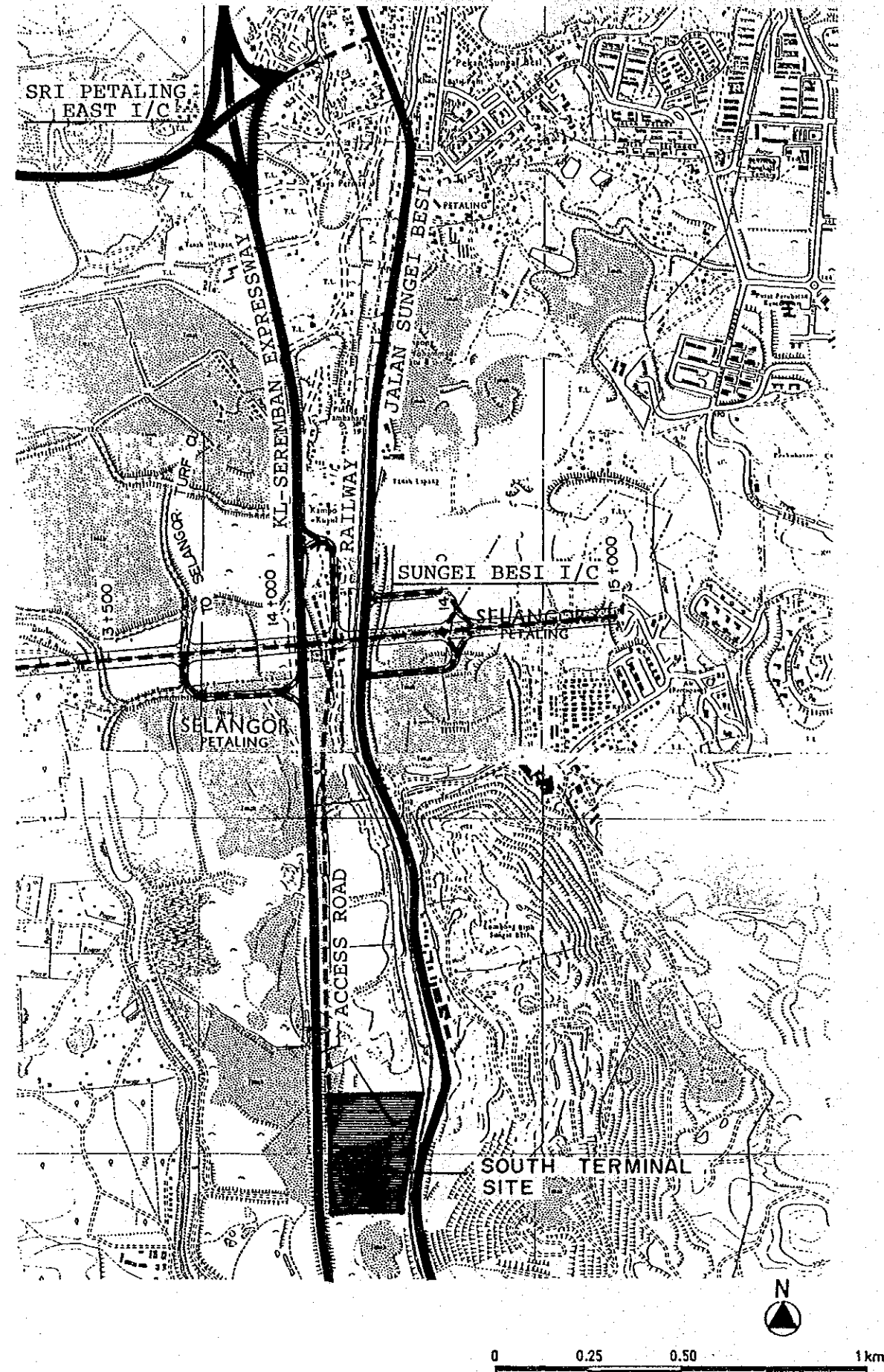


ELEVATION SCALE 1:300

FREIGHT TERMINAL PROJECT NORTH TERMINAL		SCALE: AS SHOWN		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY JAPAN INTERNATIONAL COOPERATION AGENCY
		ENGINEERING SERVICE STATION	DRAWING NO: N-6	

PROFILE OF SOUTH TERMINAL

* LOCATION MAP

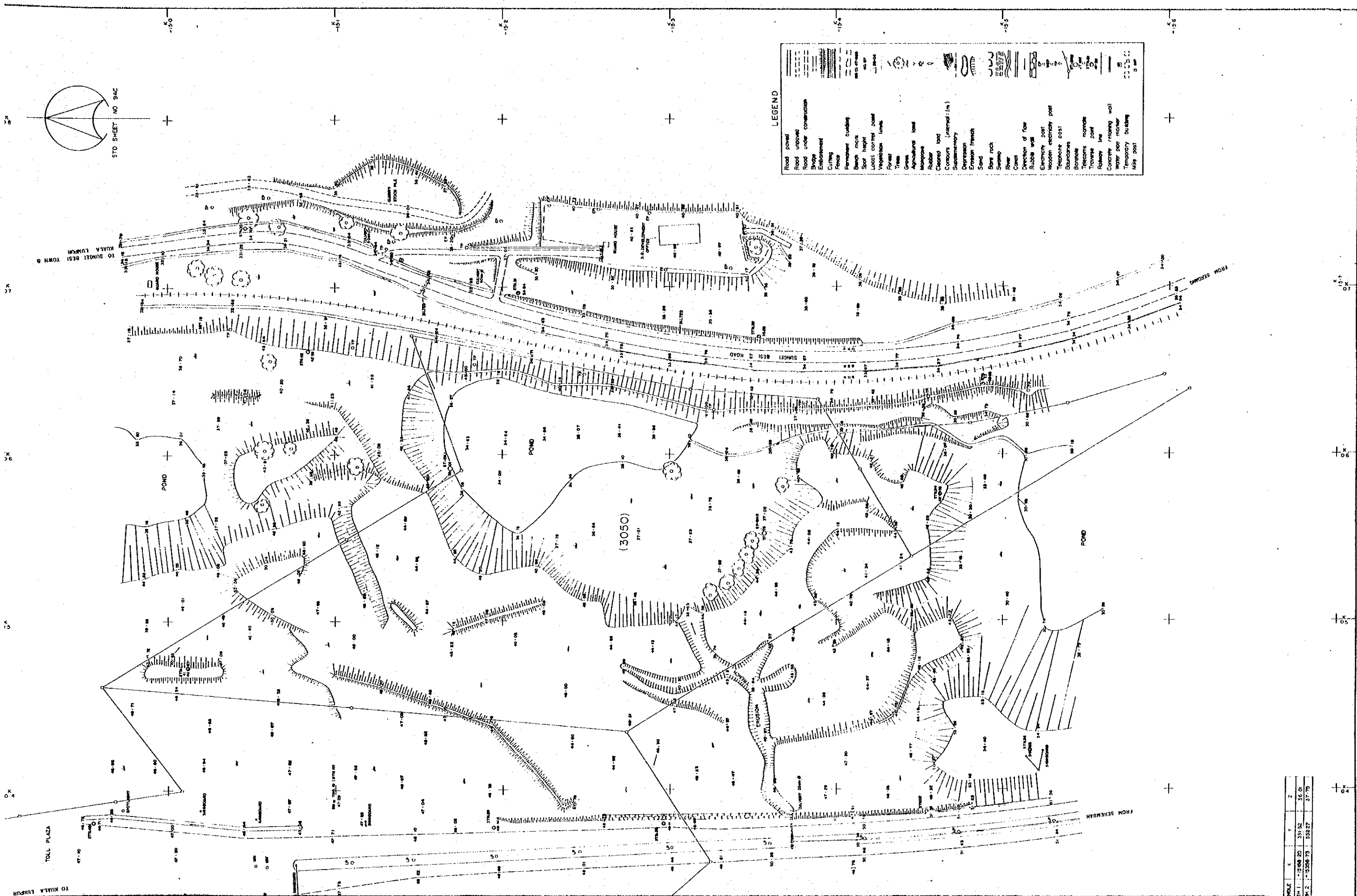


— Existing Road
 - - - Planned Road

* AREA LIST

Built-up Floor Area (sq.m)	
Platform - Block 1,2	7,200 (3,600 x 2)
Site Office - Block 1,2,3,4	2,896 (724 x 4)
Administration Building	1,323
Warehouse - Block 1,2	2,016 (1,008 x 2)
Engineering Service Station	1,296
Petrol Station Office	32
Total	14,763

Site Area (sq.m)	
Platform and Site Office	8,400
Berthing Space - Line-haul Vehicle	4,200
Berthing Space - Intracity Vehicle	2,800
Administration Building	3,000
Warehouse	7,600
Engineering Service Station	6,600
Petrol Station	800
Lorry Parking	7,000
Car Parking	900
Vehicle Washing Space	400
Road Space	19,500
Turfing	17,800
Total	79,000



LEGEND

[Symbol]	Road paved
[Symbol]	Road unpaved
[Symbol]	Road under construction
[Symbol]	Stock
[Symbol]	Embankment
[Symbol]	Cutting
[Symbol]	Fence
[Symbol]	Perimeter building
[Symbol]	Beach mark
[Symbol]	Spot height
[Symbol]	Local control point
[Symbol]	Vegetation
[Symbol]	Forest
[Symbol]	Tree
[Symbol]	Grass
[Symbol]	Agricultural land
[Symbol]	Mangrove
[Symbol]	Rubber
[Symbol]	Cleared land
[Symbol]	Contours (interval 1m)
[Symbol]	Supplementary
[Symbol]	Depression
[Symbol]	Erosion trench
[Symbol]	Sand
[Symbol]	Bare rock
[Symbol]	Swamp
[Symbol]	River
[Symbol]	Canal
[Symbol]	Direction of flow
[Symbol]	Rubble wall
[Symbol]	Electric post
[Symbol]	Wooden electricity post
[Symbol]	Telephone post
[Symbol]	Barbed wire
[Symbol]	Concrete mound
[Symbol]	Concrete post
[Symbol]	Railway line
[Symbol]	Concrete retaining wall
[Symbol]	Water pit marker
[Symbol]	Temporary building
[Symbol]	Wire post

FREIGHT TERMINAL PROJECT

SCALE : 1:2000

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

SOUTH TERMINAL

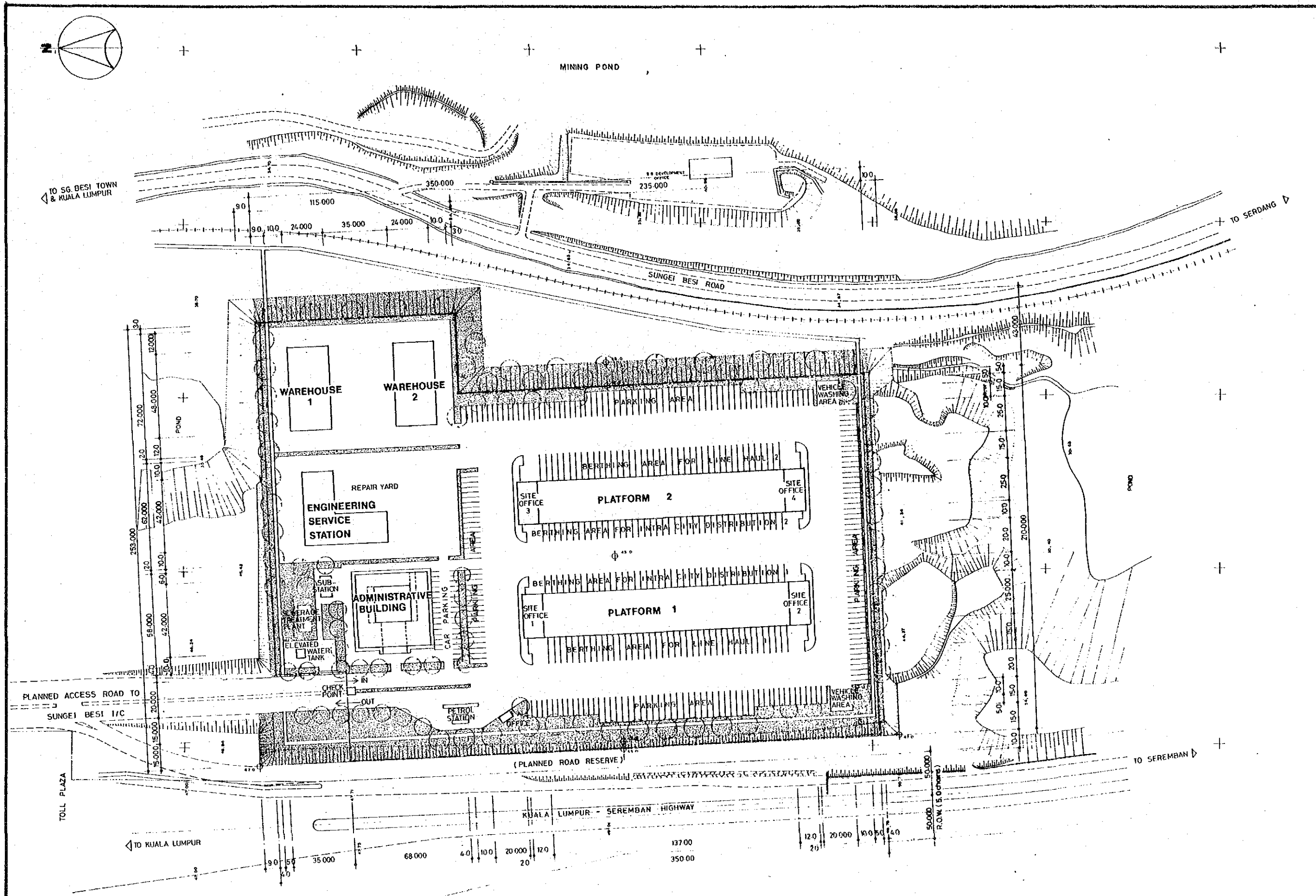
TOPOGRAPHIC FEATURES

DRAWING NO : S - 0

DATE : JULY 1988

JAPAN INTERNATIONAL COOPERATION AGENCY

DATE	1	2
31-01-88	31-01-88	31-01-88
31-01-88	31-01-88	31-01-88



FREIGHT TERMINAL PROJECT

SOUTH TERMINAL

SITE PLAN

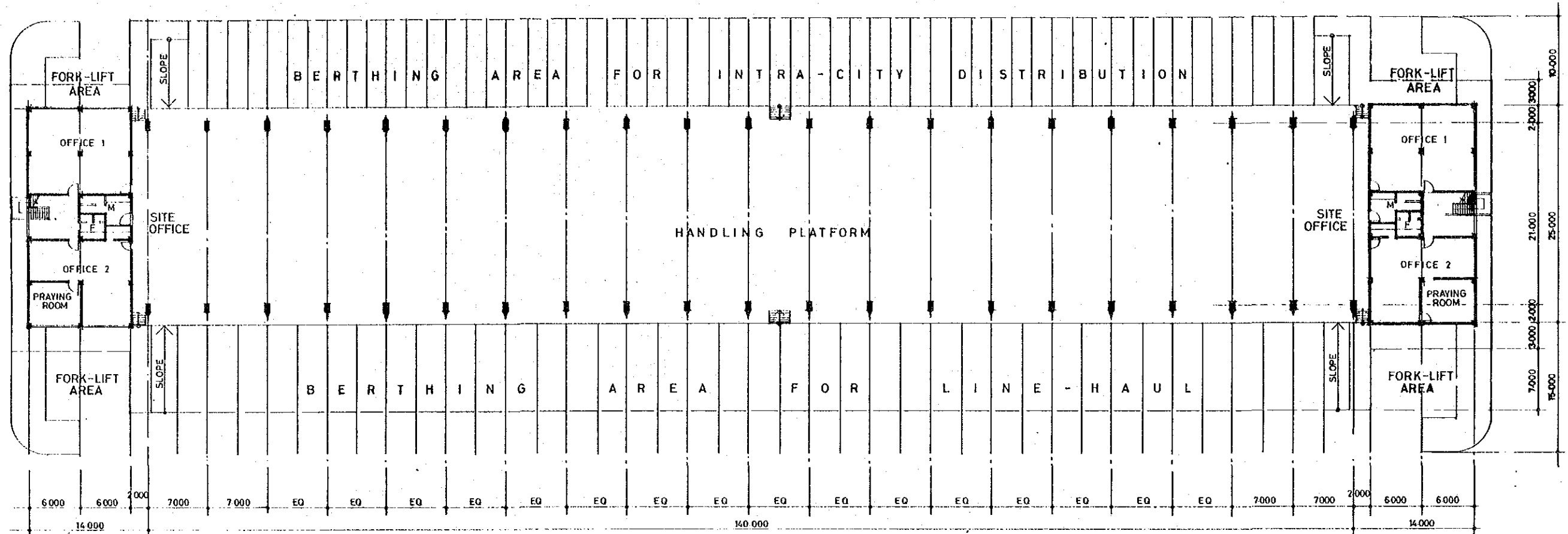
SCALE : 1:2000

DRAWING NO : S - 1

DATE : JULY 1988

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

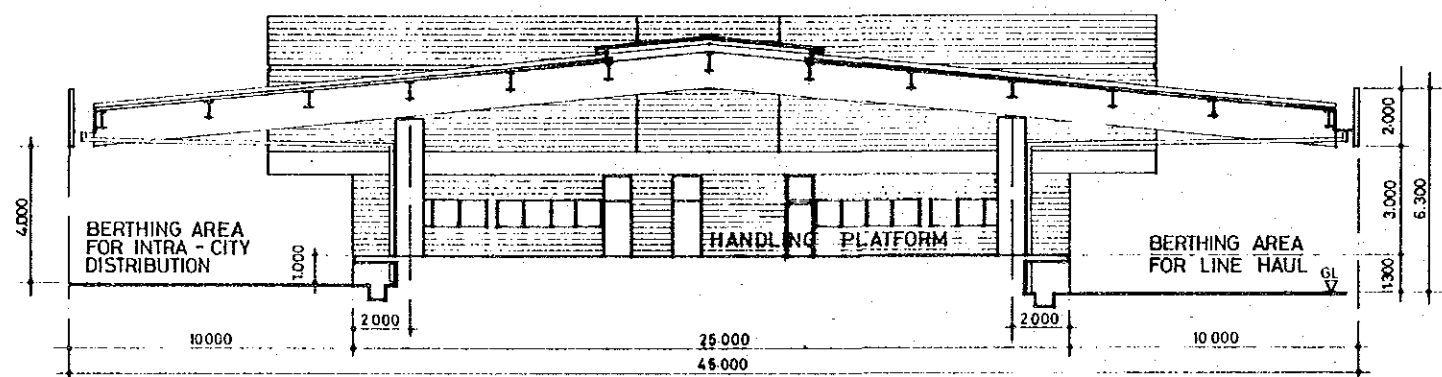
JAPAN INTERNATIONAL COOPERATION AGENCY



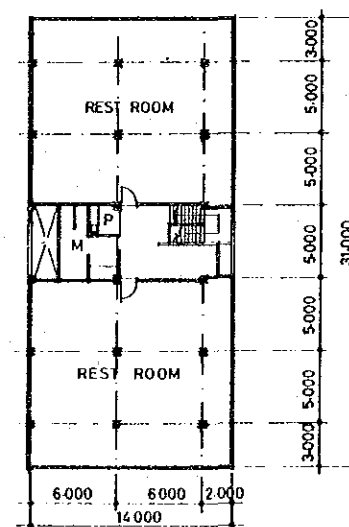
GROUND FLOOR PLAN SCALE 1:500



ELEVATION SCALE 1:500



SECTION SCALE 1:250



SITE OFFICE FIRST FLOOR PLAN SCALE 1:500

FREIGHT TERMINAL PROJECT

SOUTH TERMINAL

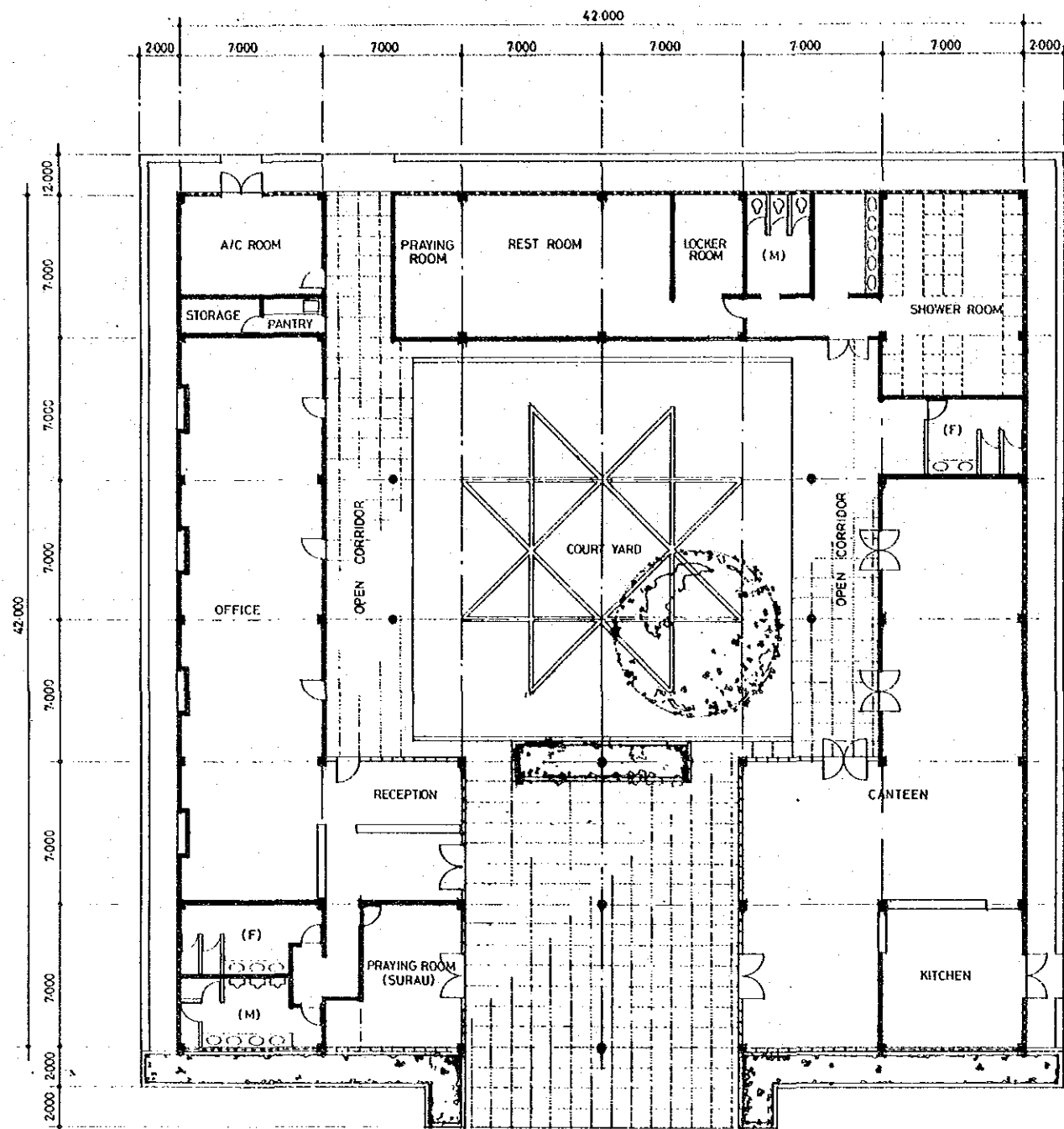
PLATFORM & SITE OFFICE

SCALE: AS SHOWN

DRAWING NO: S - 2

DATE: JULY 1988

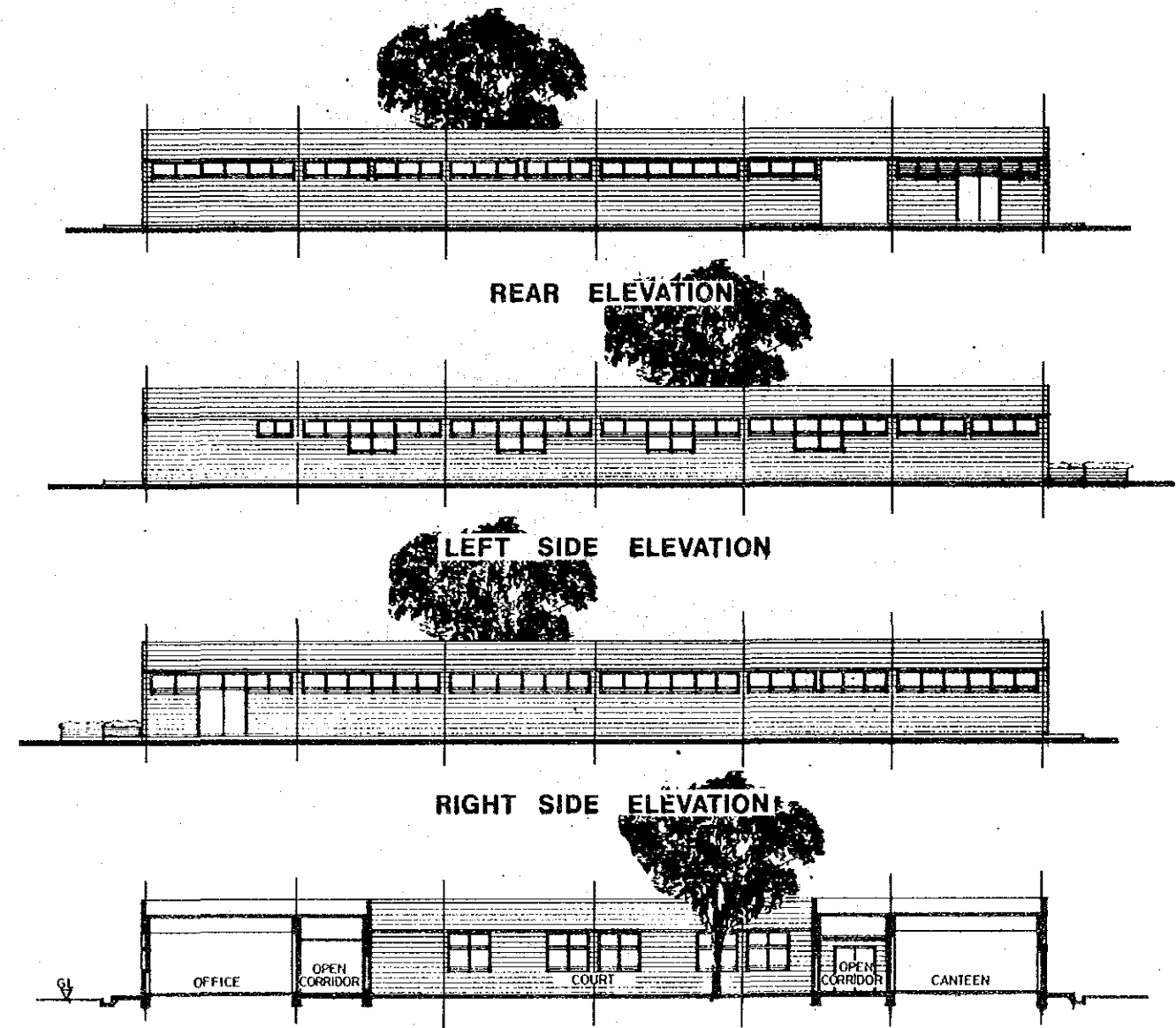
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
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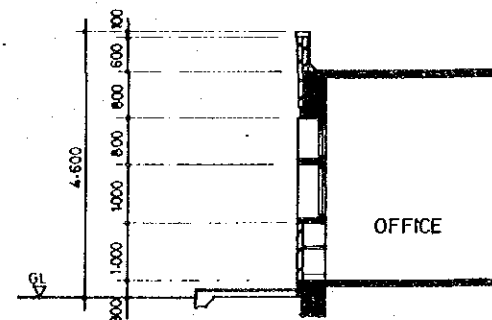
PLAN SCALE 1:300



FRONT ELEVATION SCALE 1:300



SECTION X-X



DETAIL SECTION SCALE 1:125

FREIGHT TERMINAL PROJECT

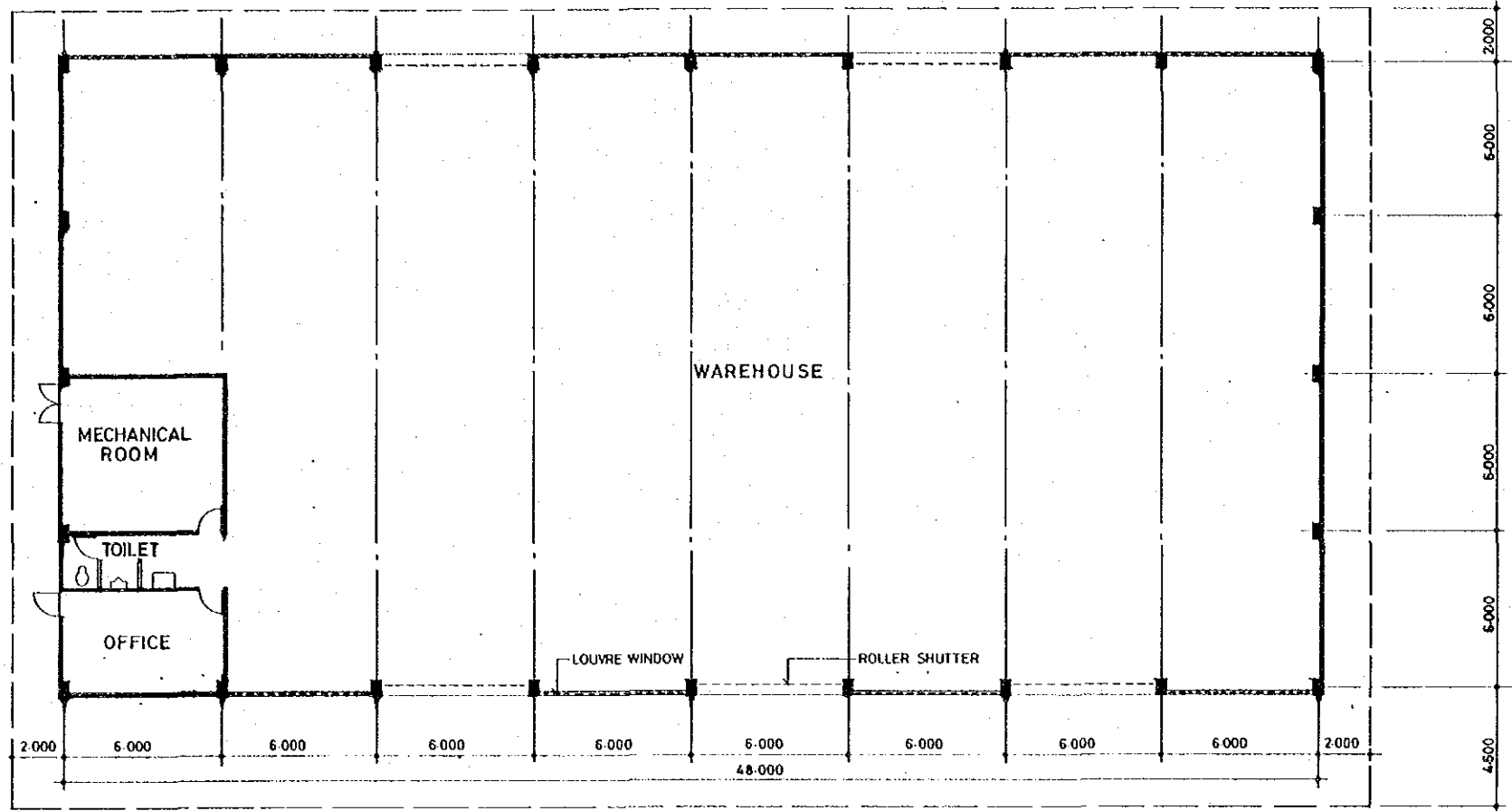
SOUTH TERMINAL

ADMINISTRATION BUILDING

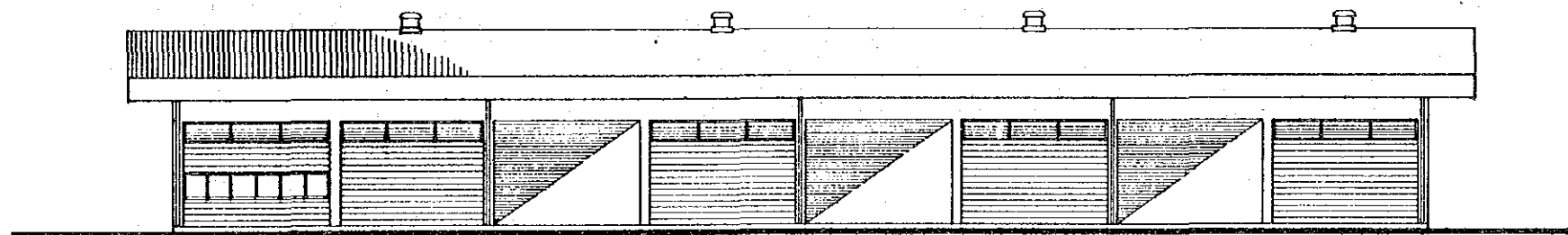
SCALE : AS SHOWN

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DATE : JULY 1988

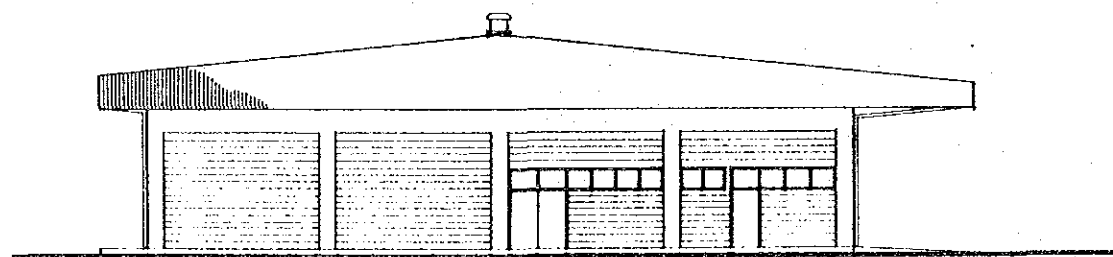
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



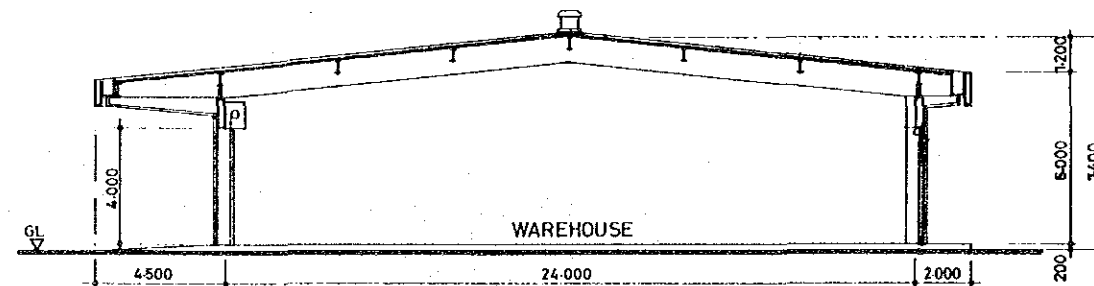
PLAN SCALE 1:250



FRONT ELEVATION SCALE 1:250



SIDE ELEVATION SCALE 1:250



SECTION SCALE 1:250

FREIGHT TERMINAL PROJECT

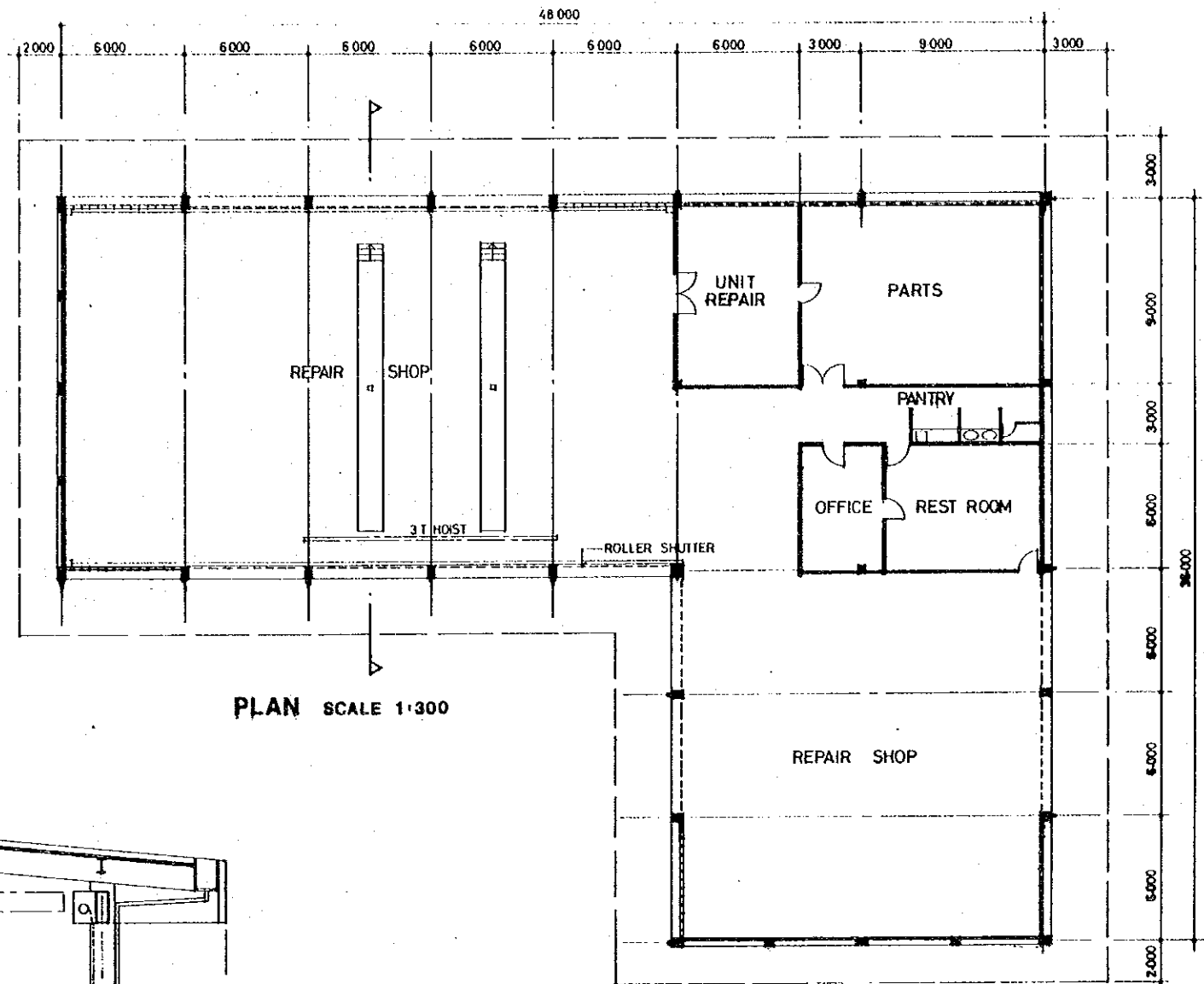
SOUTH TERMINAL

WAREHOUSE

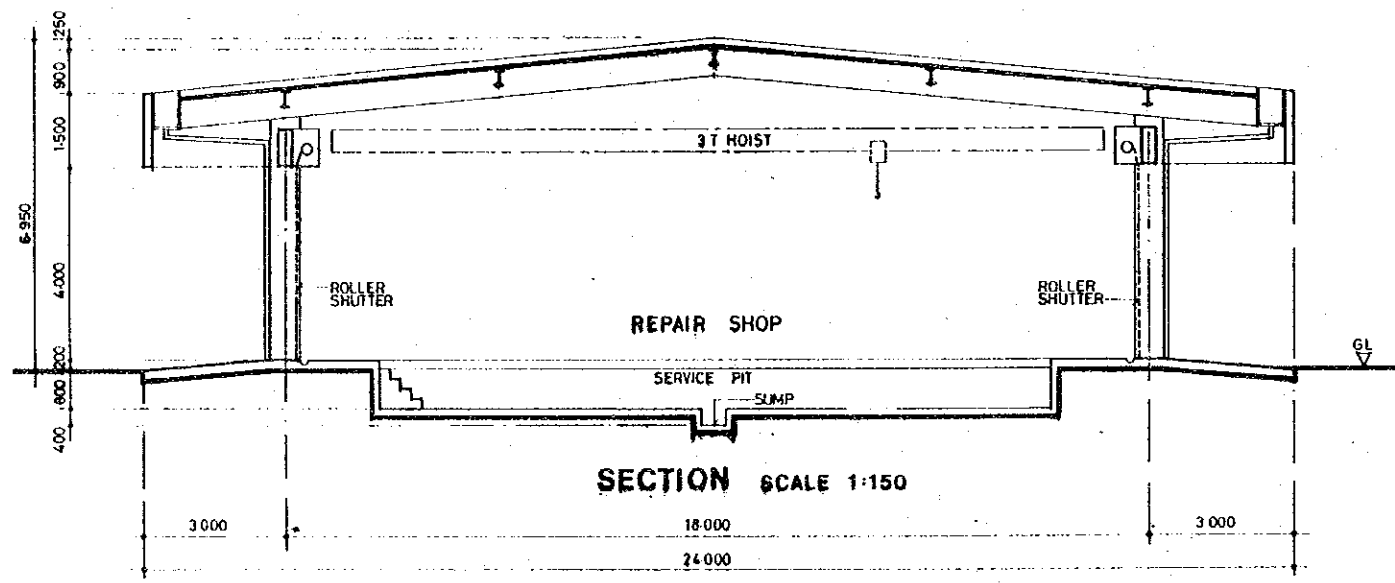
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DRAWING NO : S - 4
DATE : JULY 1988

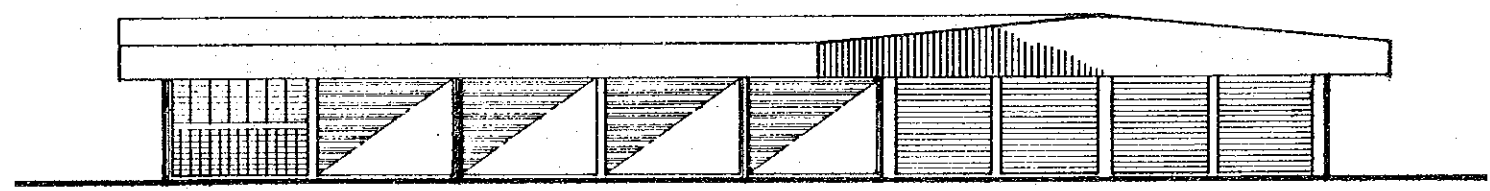
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN SCALE 1:300



SECTION SCALE 1:150

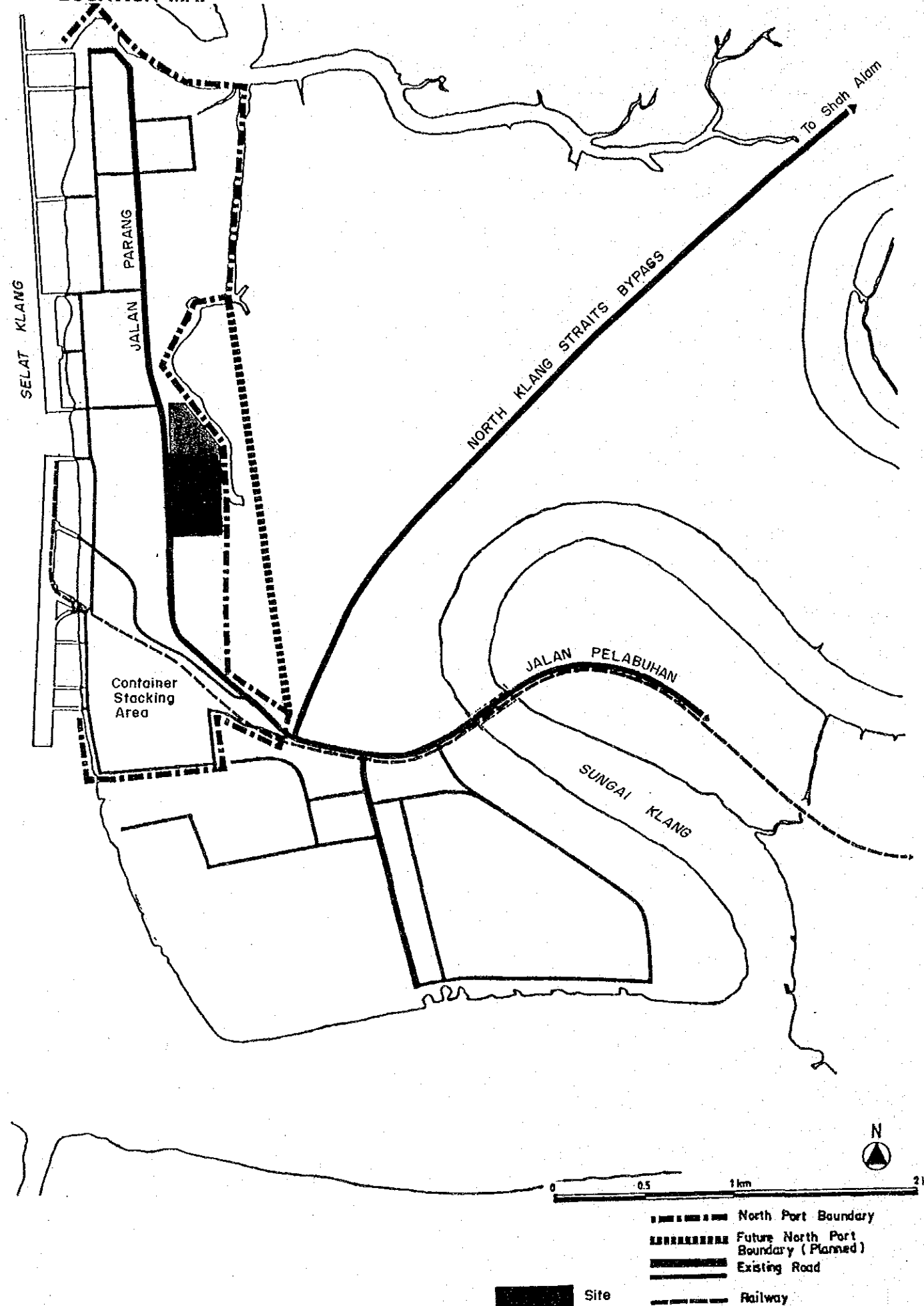


ELEVATION SCALE 1:300

FREIGHT TERMINAL PROJECT SOUTH TERMINAL		SCALE : AS SHOWN		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY JAPAN INTERNATIONAL COOPERATION AGENCY
		ENGINEERING SERVICE STATION	DRAWING NO : S - 5	

PROFILE OF MULTI-MODAL FREIGHT TERMINAL

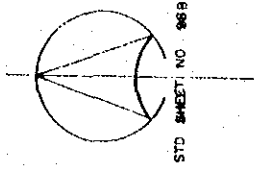
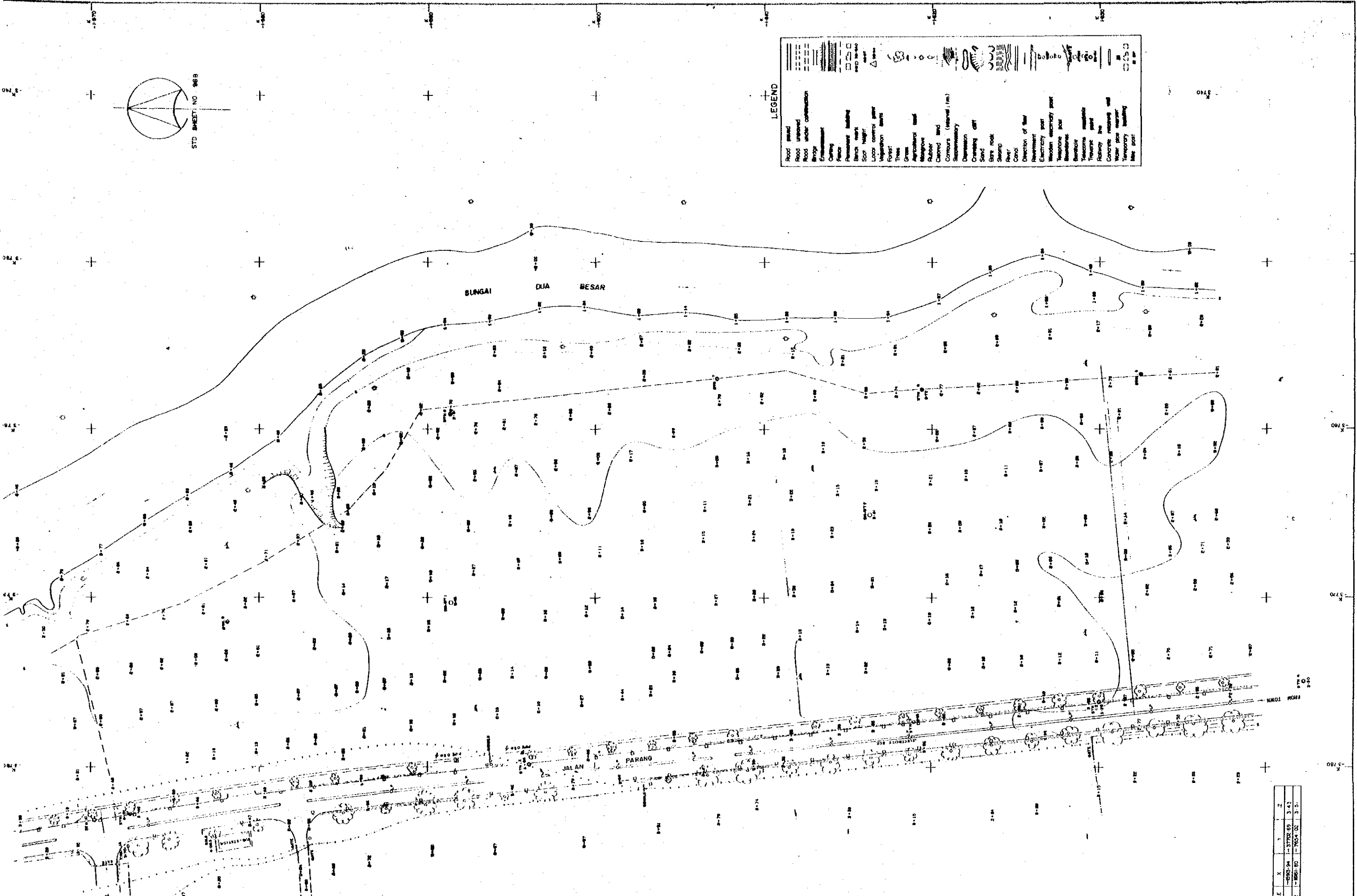
* LOCATION MAP



* AREA LIST

Built-up Floor Area (sq.m)		
Platform - Block 1.2	12,080	(6,040 x 2)
Site Office - Block 1,2	408	(204 x 2)
Administration Building	576	
Warehouse	2,880	
Engineering Service Station	972	
Petrol Station Office	32	
Total	16,948	

Site Area (sq.m)	
Platform and Site Office	12,900
Berthing Space - Container	4,400
Berthing Space - Lorry	4,400
Administration Building	2,300
Warehouse	8,300
Engineering Service Station	8,300
Petrol Station	1,000
Parking	4,700
Car Parking	1,000
Vehicle Washing Space	500
Road Space	9,900
Turfing	22,900
Container Yard	17,400
Others (Including railway track)	2,500
Total	100,500



LEGEND

[Symbol]	Road (paved)
[Symbol]	Road (unpaved)
[Symbol]	Road under construction
[Symbol]	Bridge
[Symbol]	Channel
[Symbol]	Canal
[Symbol]	Field
[Symbol]	Plantation
[Symbol]	Barren land
[Symbol]	Local control point
[Symbol]	Vegetation
[Symbol]	Forest
[Symbol]	Tree
[Symbol]	Grass
[Symbol]	Apricot
[Symbol]	Rubber
[Symbol]	Clearing
[Symbol]	Contours (original) (m)
[Symbol]	Supplementary
[Symbol]	Dimension
[Symbol]	Channel cut
[Symbol]	Soil
[Symbol]	Bar road
[Symbol]	Swamp
[Symbol]	River
[Symbol]	Canal
[Symbol]	Direction of flow
[Symbol]	Reinforcement
[Symbol]	Electricity post
[Symbol]	Modern electricity post
[Symbol]	Telegraph post
[Symbol]	Telephone post
[Symbol]	Water post
[Symbol]	Concrete retaining wall
[Symbol]	Water pipe
[Symbol]	Temporary building
[Symbol]	Map post

FREIGHT TERMINAL PROJECT

SCALE : 1:2000

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

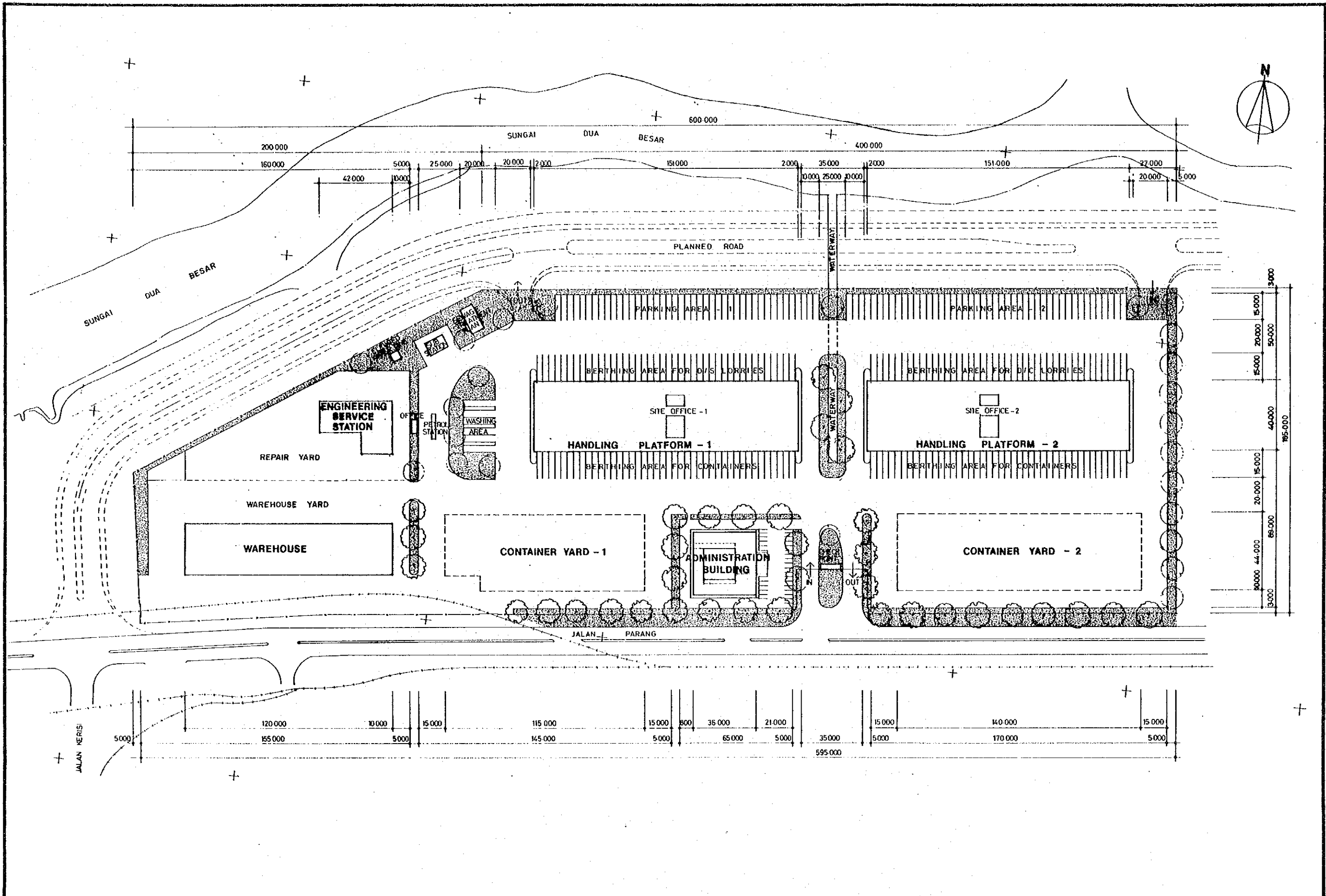
DRAWING NO : M-O
DATE : JULY 1988

MULTI-MODAL FREIGHT TERMINAL

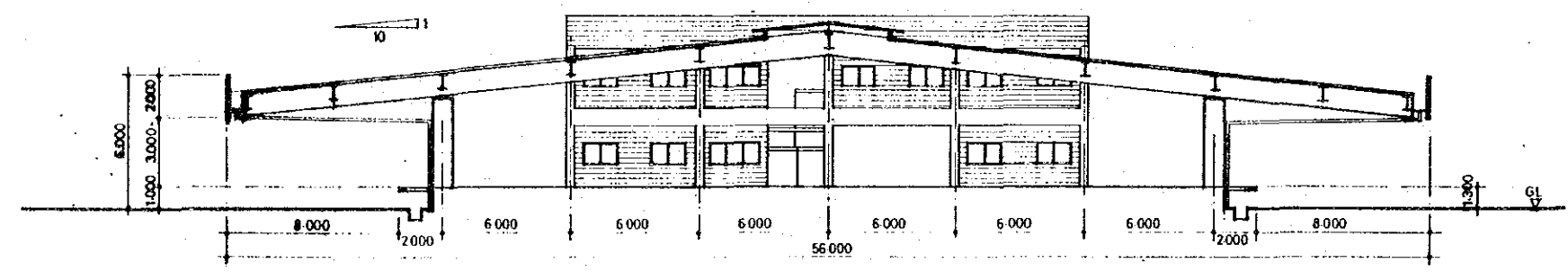
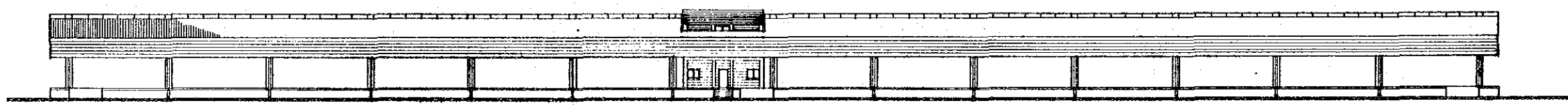
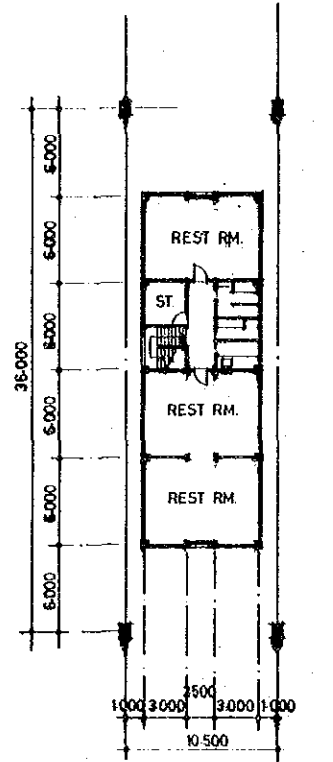
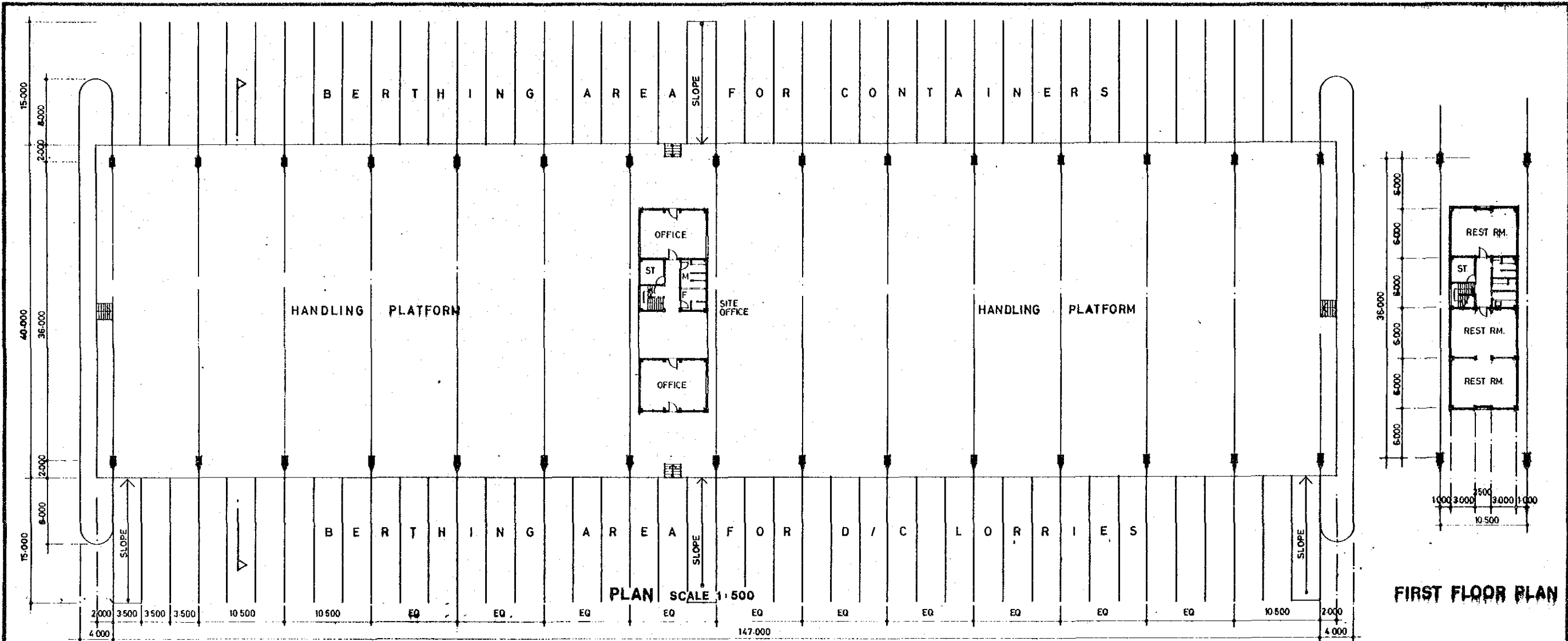
TOPOGRAPHIC FEATURES

JAPAN INTERNATIONAL COOPERATION AGENCY

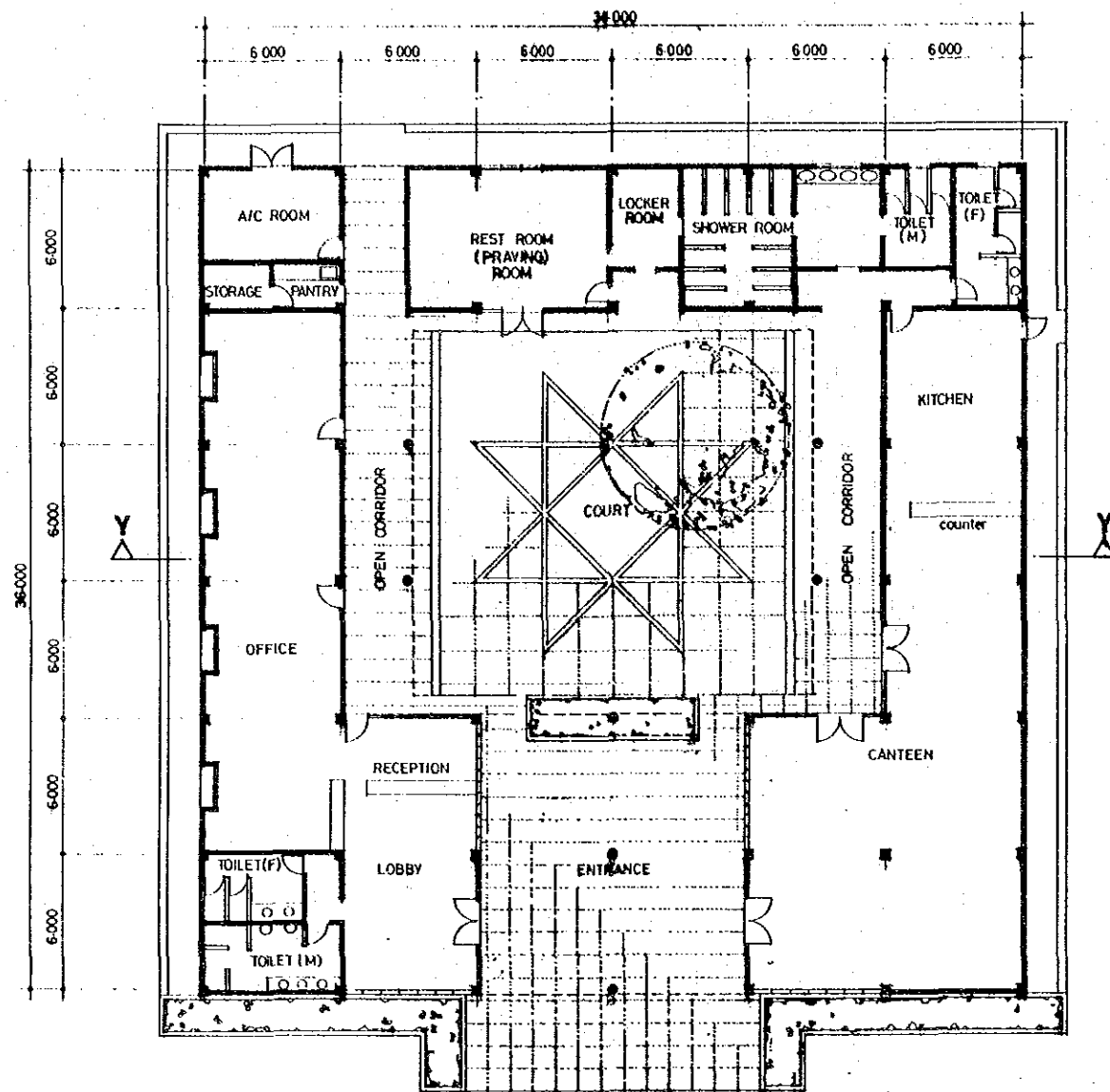
RESPONSIBLE	X	Y	Z
WT. 801	-8801-94	-3702-03	3-43
WT. 802	-8801-80	-7604-02	3-51



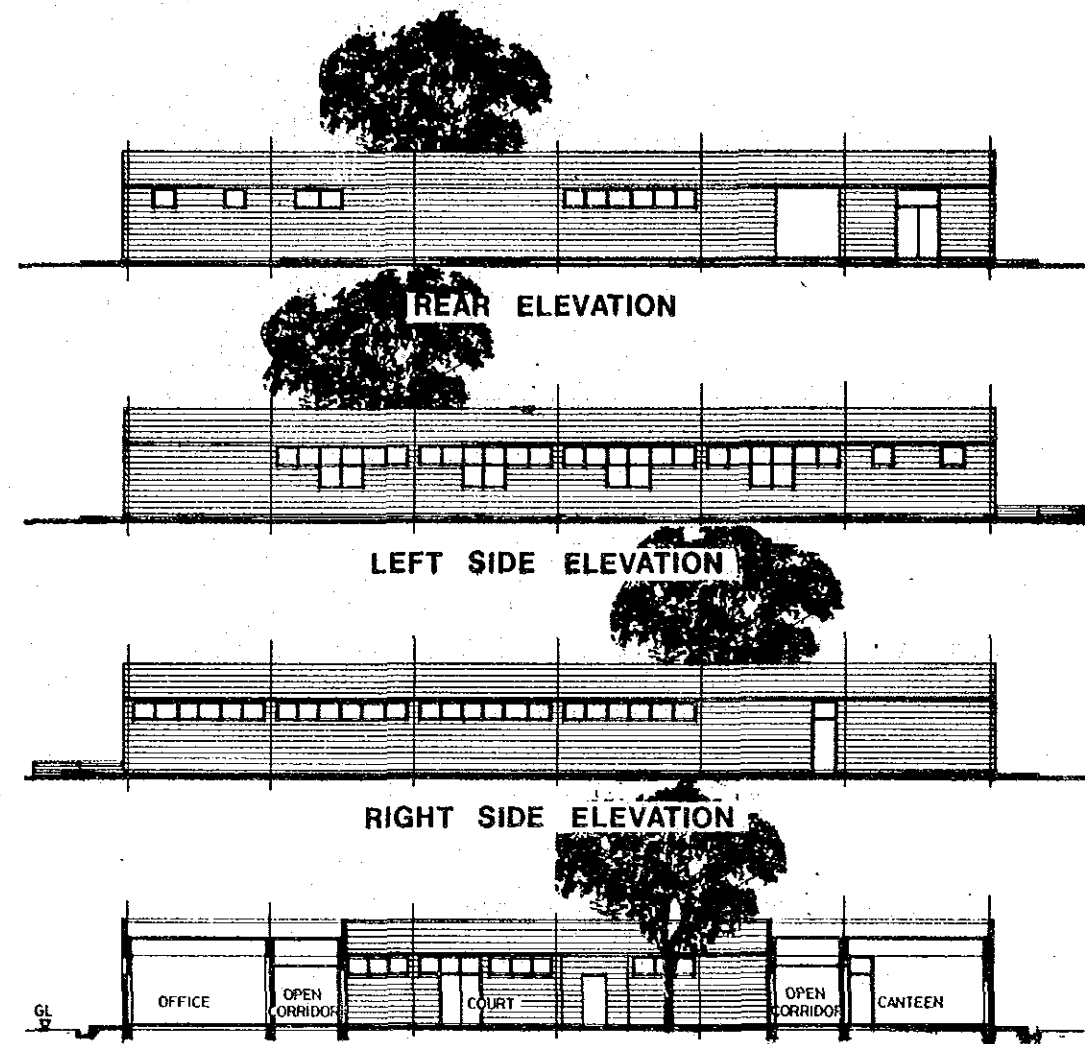
FREIGHT TERMINAL PROJECT		SCALE : 1:2000		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY	
MULTI-MODAL FREIGHT TERMINAL SITE PLAN		DRAWING NO : M - 1	DATE : JULY 1988	JAPAN INTERNATIONAL COOPERATION AGENCY	



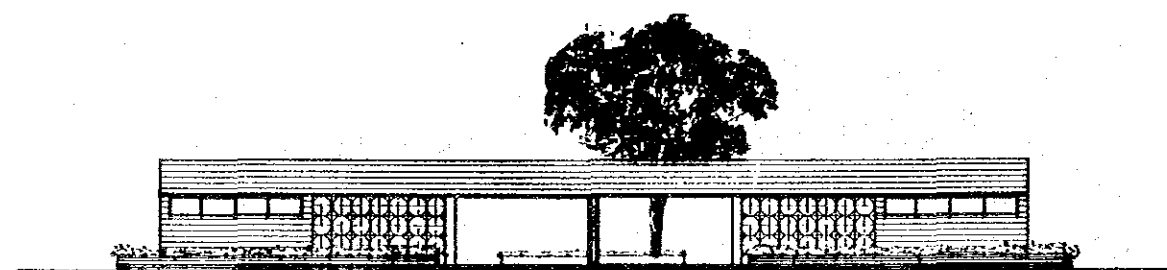
FREIGHT TERMINAL PROJECT		SCALE: AS SHOWN		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY	
MULTI-MODAL FREIGHT TERMINAL	PLATFORM & SITE OFFICE	DRAWING NO: M - 2	DATE: JULY 1988		
				JAPAN INTERNATIONAL COOPERATION AGENCY	



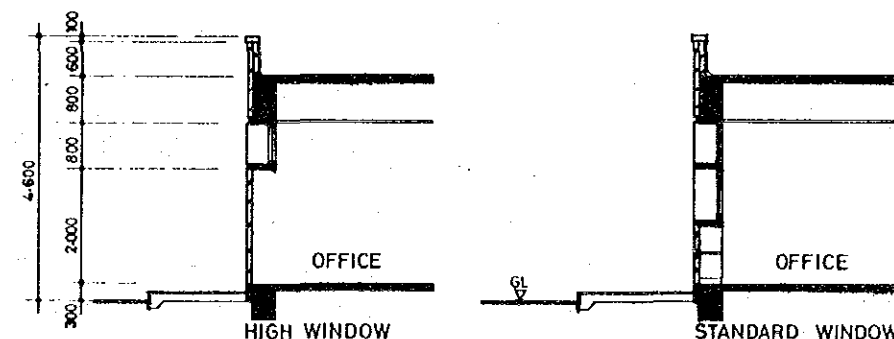
PLAN SCALE 1:300



SECTION Y-Y

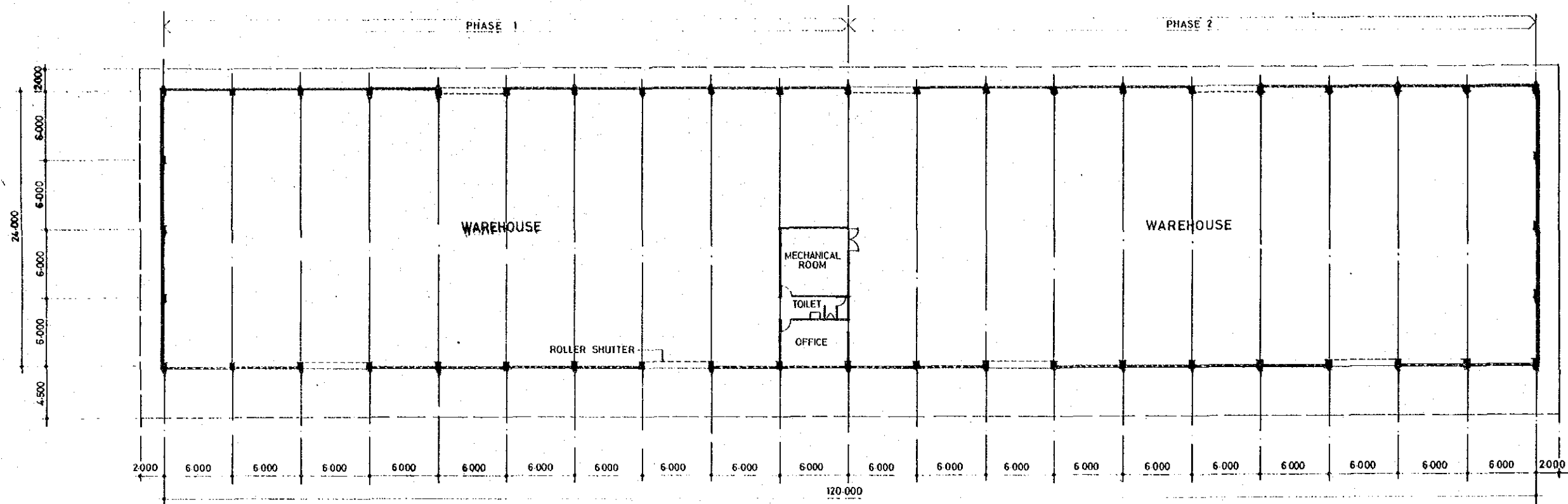


FRONT ELEVATION SCALE 1:300

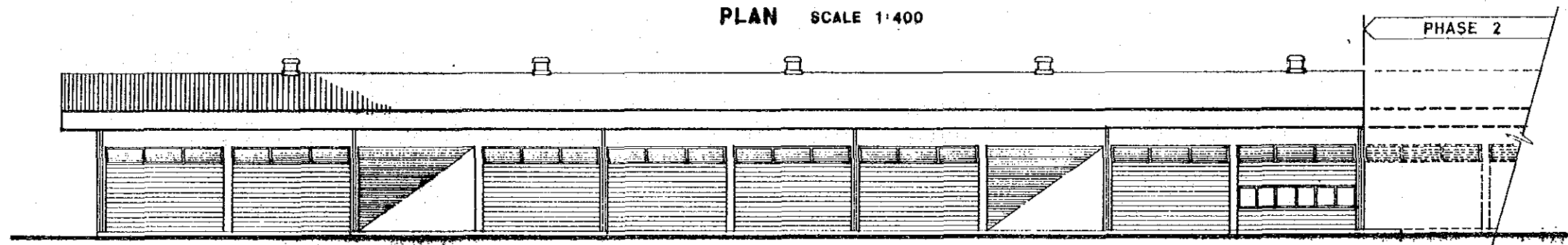


DETAIL SECTION SCALE 1:25

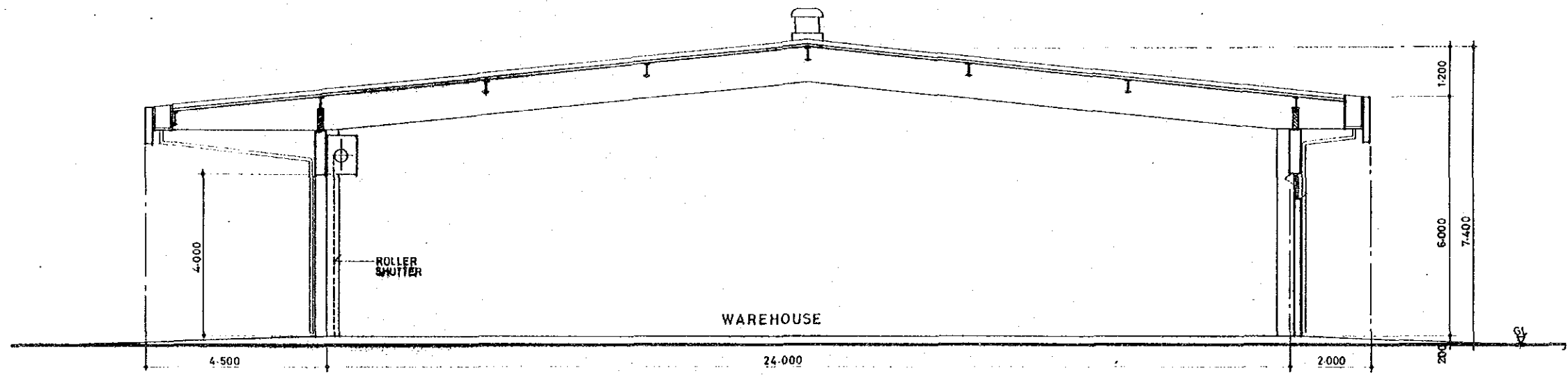
FREIGHT TERMINAL PROJECT MULTI-MODAL FREIGHT TERMINAL ADMINISTRATION BUILDING		SCALE : AS SHOWN		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY JAPAN INTERNATIONAL COOPERATION AGENCY
		DRAWING NO : M - 3	DATE : JULY 1988	



PLAN SCALE 1:400

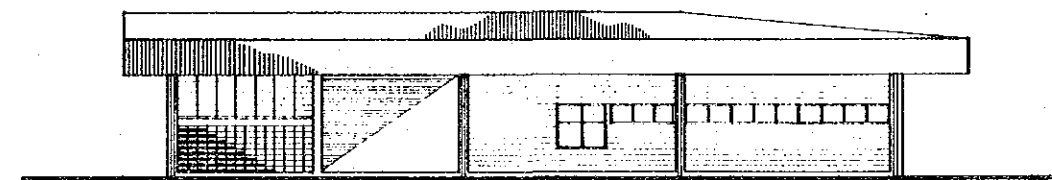
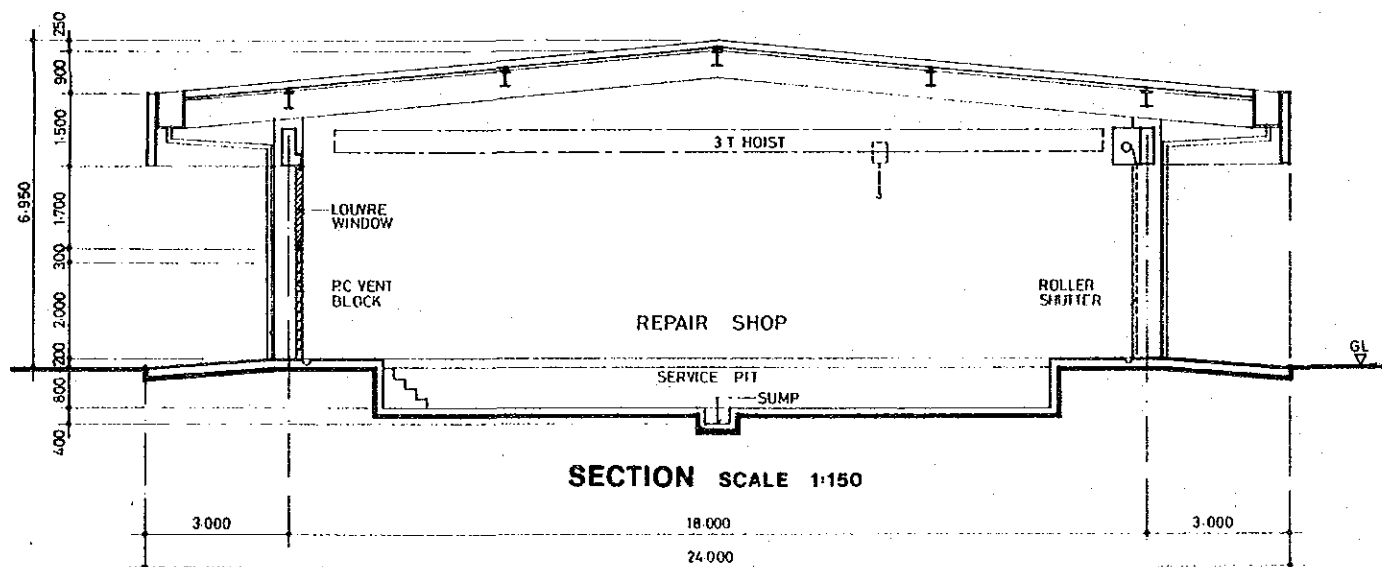
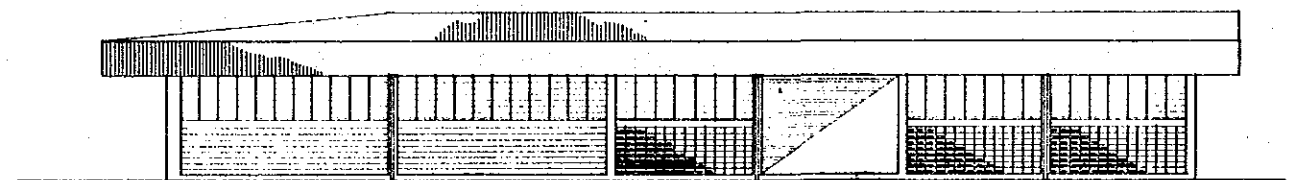
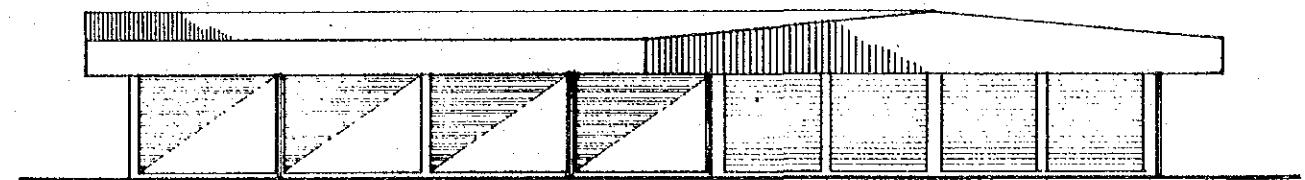
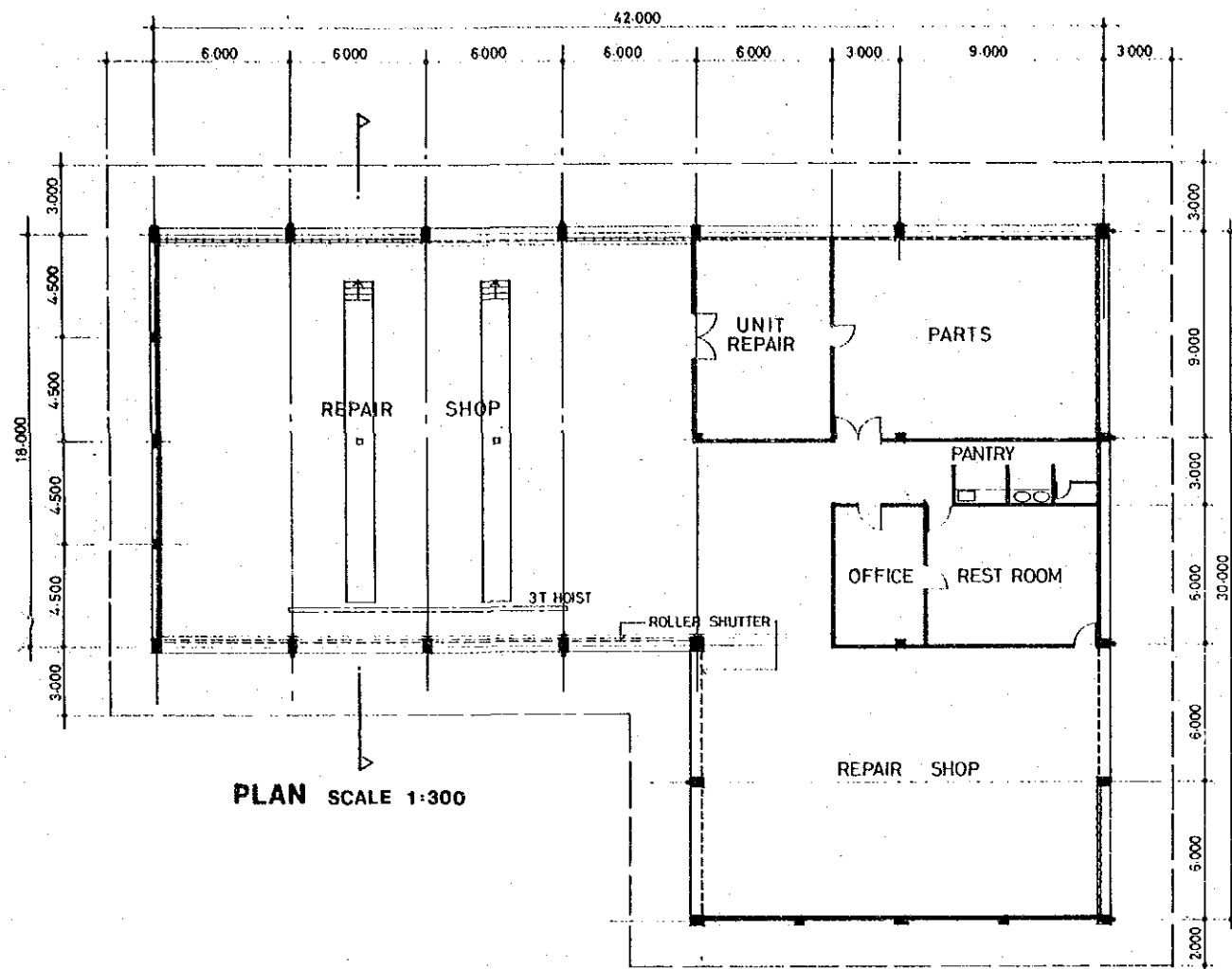


ELEVATION - PHASE 1 SCALE 1:250



SECTION SCALE 1:125

FREIGHT TERMINAL PROJECT MULTI-MODAL FREIGHT TERMINAL WAREHOUSE		SCALE : AS SHOWN	THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY JAPAN INTERNATIONAL COOPERATION AGENCY
		DRAWING NO : M - 4	



FREIGHT TERMINAL PROJECT		SCALE: AS SHOWN		THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY	
MULTI-MODAL FREIGHT TERMINAL	ENGINEERING SERVICE STATION	DRAWING NO: M-5	DATE: JULY 1988		

JICA