related to the establishment of appropriate institutional and organizational set up for the new airport administration. Details of the specific functions of the Progress Monitoring Committee may be determined in consultation with the Minister of MWPC.

- 9.2 New International Airport Administration
- 9.2.1 Type of Administration

Judging from the results of financial analysis, it is considered next to unpracticable to expect the New Airport Administration to be a financially self-supporting public corporation. The present recommendation, therefore, envisages the new airport to be administered directly by the competent authorities of the Kingdom's government

9.2.2 Managerial and Operational Organization

Fig. 9.3 shows schematic diagram of a recommended administrative organization that would be necessary to ensure an efficient operation and management of the new airport. Airport Manager will be assisted by two deputy managers, one in charge of technical matters, and the other administrative. The technical deputy shall control the Operation Division and the Maintenance Division, the former consisting of Air Traffic Control, Flight Operations/ Aeronautical Telecommunications, Meteorological Service, Fire-fighting and Rescue Service units. The Maintenance Division will comprise 4 units of Terminal, Airfiled, Electric/ Mechanical, and Radio/Communications maintenance. The administrative deputy shall control the 4 of his division

9-6

Table 9.1 Recommended Manning of New International Airport Administration

Classification	1985	1996
Airport Manager	1	1
Deputy Airport Manager	2	2
Air Traffic Control	11	15
Flight Operation	6	7
Meteorological Service	6	7
Fire-fighting and Rescue Serice	28	33
Radio/Communications Maintenance	11	15
Electric/Mechanical Maintenance	4	4
Airfield Maintenance	2	2
Terminal Maintenance	2	2
Accounting/Procurement	3	3
Personnel/General Affairs	2	2
Statistics	1	1
Switchboard	3	4
Secretary/Typist	2	. 2
Miscellaneous	12	15
Total Total	96	115

units, namely Accounting/Procurement, Personnel, Statistics, and Switchboard.

Functions of each service unit are described hereunder together with the respective manning schedule as summarized in Table 9.1, which is based on the assumption that the new airport will be operated 15 hours a day in Stage I up to and including 1995, and 18 hours a day thereafter, or during Stage II.

1) Air Traffic Control

Since the new airport administration will provide both approach control and aerodrome control, the airport's ATC unit shall comprise one each console of the respective control, plus an additional console for flight data processing. Stage I manning will require 3-shift operations by 3-member teams, or a total staff of 11 men including one each Chief Controller and Training Officer, and Stage II, 4 shifts and 15 men including 1 Chief Controller and 2 Training Officers.

2) Flight Operations/Aeronautical Telecommunications

This unit shall be in charge of receiving and processing flight plans, aeronautical information service, aeronautical fixed service, and control of aircraft movement area. With 2 men on duty at all times, a total of 6 and 7 men is planned for Stage I and Stage II respectively.

3) Meteorological Service

Weather observation and meteorological information service shall be the responsibility of this service unit, to which are assigned 6 and 7 men in Stage I and Stage II respectively.

4) Fire-fighting and Rescue Service

Besides providing the fire-fighting and rescue services in emergency, this unit shall also be responsible for the airport's security at normal times. The total staff will comprise 28 men in Stage I and 33 in Stage II.

5) Radio/Communications Maintenance

This unit shall be responsible for the maintenance of the radio navigational aid facilities of VOR/DME, NDB, etc. as well as the aeronautical fixed and mobile service facilities. A total of 11 men will be assigned in Stage I, and 15 in Stage II.

6) Electric/Mechanical Maintenance

Daily up-keep and light repair of airfield lighting, power distribution, air-conditioning and other utilities of the airport shall be the primary responsibility of this unit, which will comprise a staff of 4 men throughout the two stages of the Project. Major repair work shall be made on separate contract basis.

7) Airfield Maintenance

A staff of only 2 engineers assigned to this unit shall see to it that the airfield facilities of runway, taxiway, apron, runway strip, etc. as well as the sewerage and water supply facilities of the airport are kept in good condition at all times. Actual work of maintenance and repair shall be done all on separate contract basis regardless of the nature and quantity of the work involved.

8) Terminal Maintenance

Terminal Maintenance unit shall also comprise a permanent staff of only 2 men throughout the entire Project period, and shall be responsible for maintaining the terminal and other buildings of the airport by procuring and supervising the necessary services to be provided under separate contract basis.

9) Accounting/Procurement

A staff of 3 men both in Stages I and II shall be responsible for book-keeping and procurement of all goods and materials necessary for the administration, operation and maintenance of the airport.

10) Statistics

One statistician in both stages shall be assigned to cope with all statistical requirements of the airport administration.

11) Personnel/General Affairs

A 2 men staff shall be in charge of the personnel and general affairs of the entire airport employees in both Stage I and Stage II. In addition, there shall be a provision for 2 secretary/typists for both stages, and 12 and 15' miscellaneous workers for Stage I and II assigned for such odd jobs as cleaning and messenger services, etc.

12) Switchboard shall require 3 operators in Stage I and 4 in Stage II.

9.2.3 Training of New International Airport Administration Personnel

The present Matsapa Airport has 25 technical staff members and 28 more are scheduled to be trained by 1981 under the UNDP training program. As the present Matsapa Airport is planned to be a general aviation airport after completion of the new airport, approximately 43 trained technical personnel are expected to be transferred to the new airport. This, however, would still leave a shortage of 27, since the new airport will require at least 70 technical personnel to satisfy the Stage I operational requirements. It is, therefore, strongly recommended that an appropriate training program be implemented for the 27 additional technical personnel, which should be completed at least 6 months prior to the inauguration of the new airport scheduled for January 1985, so that the newly trained will be ready to participate in the familiarization program together with the rest of the airport personnel.

APPENDIX

SCOPE OF WORK

CH

THE FEASIBILITY STUDY

FOR-

THE NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT

IN

THE KINGDOM OF SWAZILAND

AGREED

BETWEEN

THE GOVERNMENT OF THE KINGDOM OF SWAZILAND

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

The Government of the Kingdom of Swaziland.

Director of

Social Development Cooperation Department, Japan International Cooperation Agency. (JICA)

I INTRODUCTION

In response to a request of the Government of the Kingdom of Swaziland, the Government of Japan has decided to conduct a feasibility study for the New International Airport construction project in accordance with laws and regulations in force in Japan, and the Japan International Cooperation Agency (hereinafter referred to as JICA), the official agency responsible for the implementation of technical cooperation programs of the Government of Japan, will carry out the study.

The present document sets forth the scope of work in regard to the abovementioned study which is to be carried out in close cooperation with the Government of the Kingdom of Swaziland and the authorities concerned.

II. OBJECTIVE OF THE STUDY

The objective of this study is to examine the technical and economic feasibility of the New International Airport construction project so as to contribute to optimum planning of the project.

III. CUTLING OF THE STUDY

This feasibility study will consist of the followings:

- 1) Air transport demand forecasts
- 2) Facility requirement analysis
- Site selection
- 4) Airport layout plan
- 5) Facility planning
- 6) Air navigation planning
- 7) Construction schedule and cost estimate
- 8) Economic analysis
- 9) Financial analysis

IV. REFORTS

JICA will prepare and submit the following reports in the course of the study. All documents are written in English and with metric system.

1)	Inception Report	20 copies
2)	Progress Report (1)	20 copies
3)	Progress Report (2)	20 copies
4)	Draft Final Report	20 copies
5)	Final Report	50 copies

V. UNDERTAKING OF THE GOVERNMENT OF THE KINGDOM OF SWAZILAND

- 1) To provide the study team with all available data and information necessary for the study, including soil boring information, access to topographical maps and aerial photographs; and to give the study team free access to such sources of information as may be necessary for the proper execution of the study.
- 2) To ensure that such research documents can be taken out of the country.
- 3) To exempt the taxes and duties on the materials required for the study and personal effects which the study team will bring into the Kingdom of Swaziland.
- 4) To assign the counterpart officials for the study team.
- 5) To provide suitable office space for the team.
- 6) To provide the study team with the necessary means and equipment for their activities in the country.

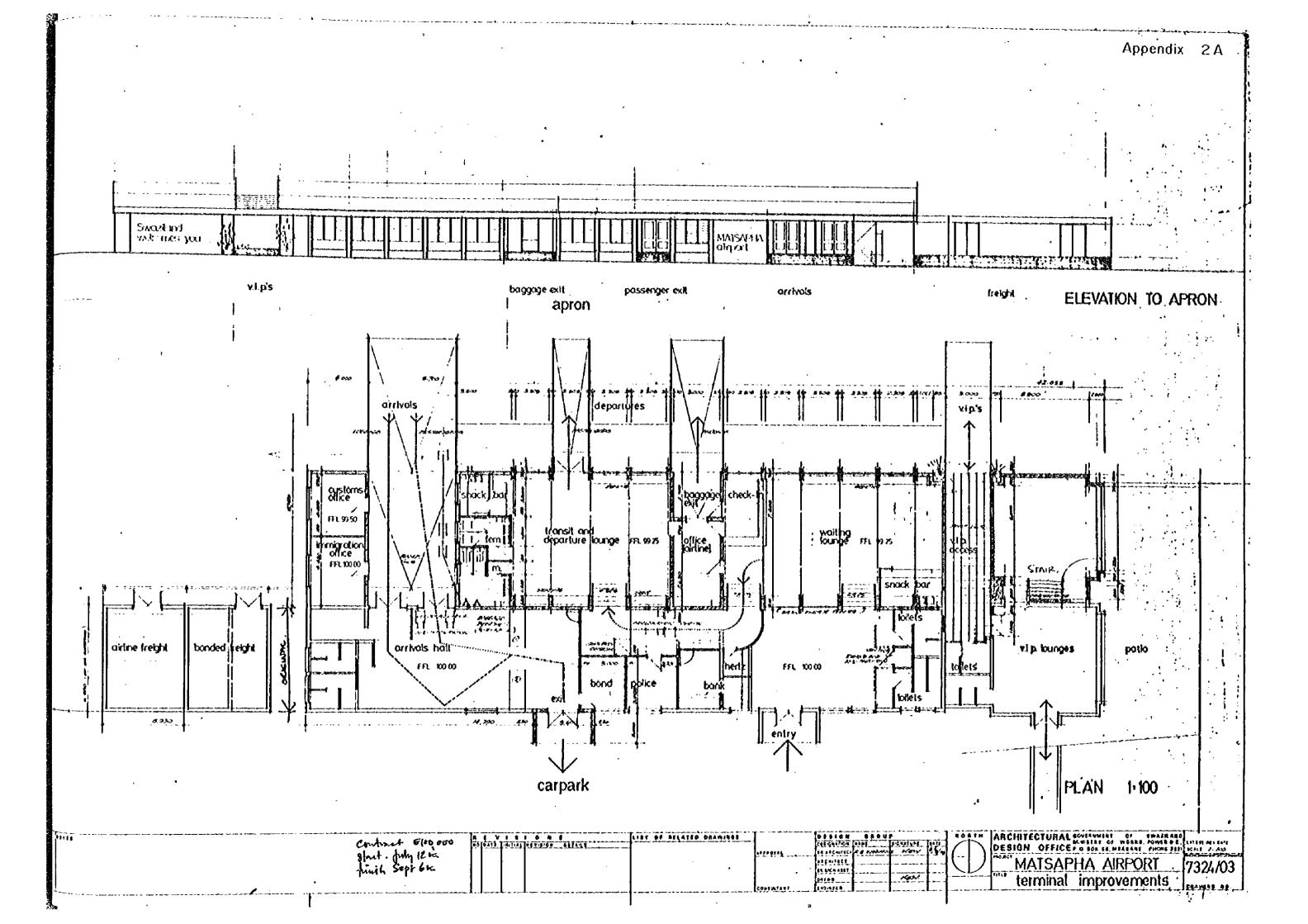
VI. TIME SCHEDULE.

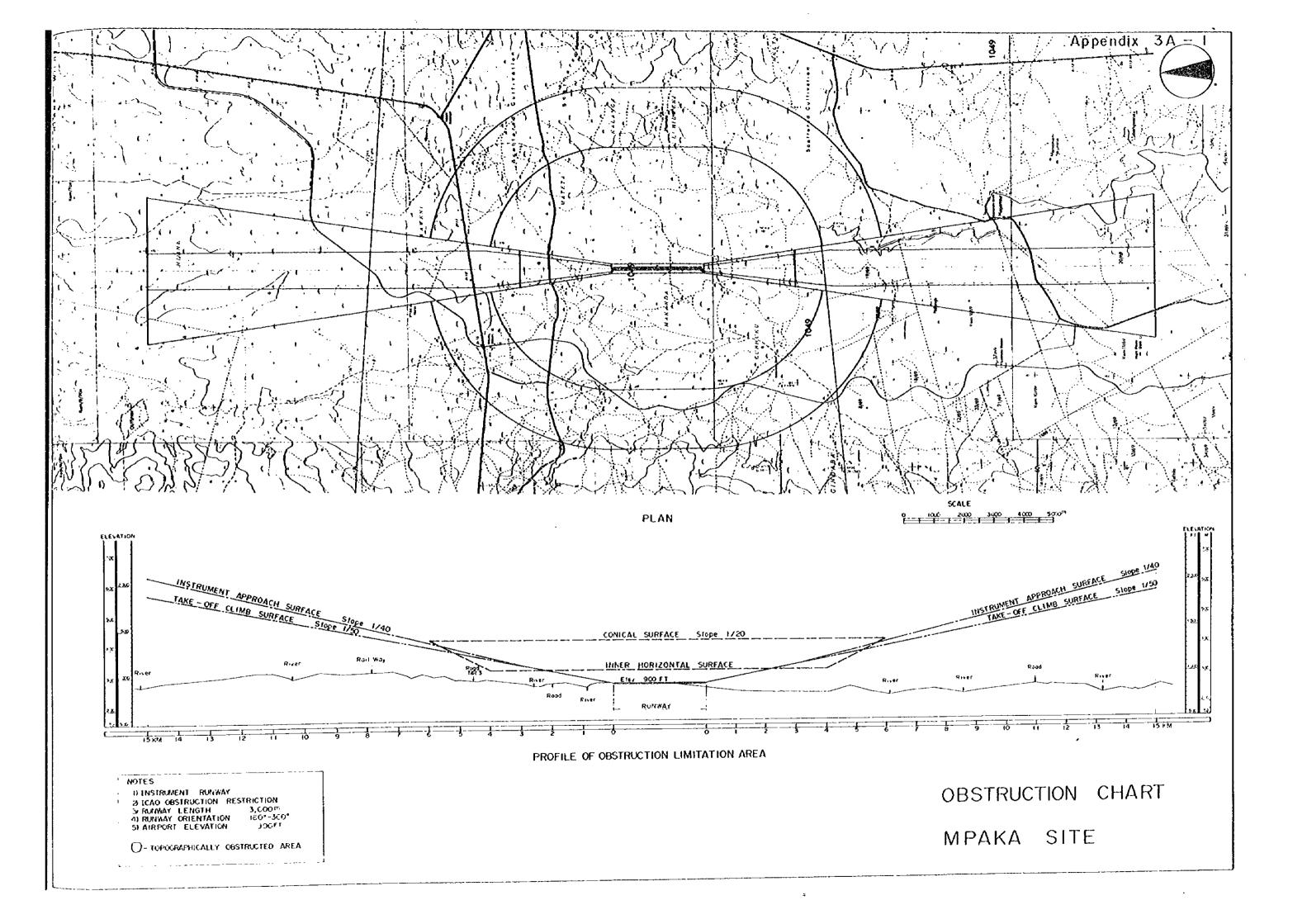
JICA will conduct the study on the following schedule.

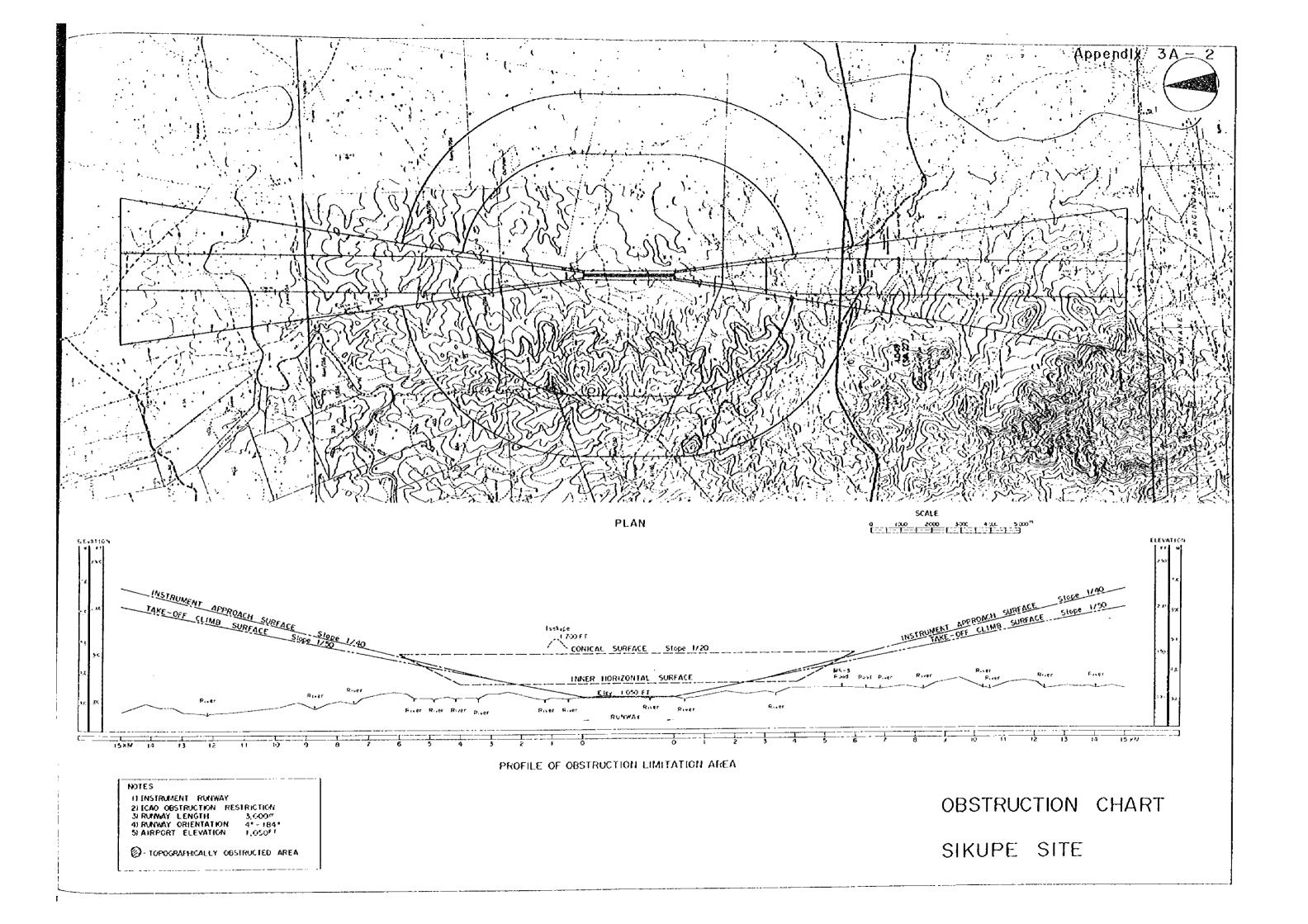
This time schedule, however, is subject to change according to circumstances.

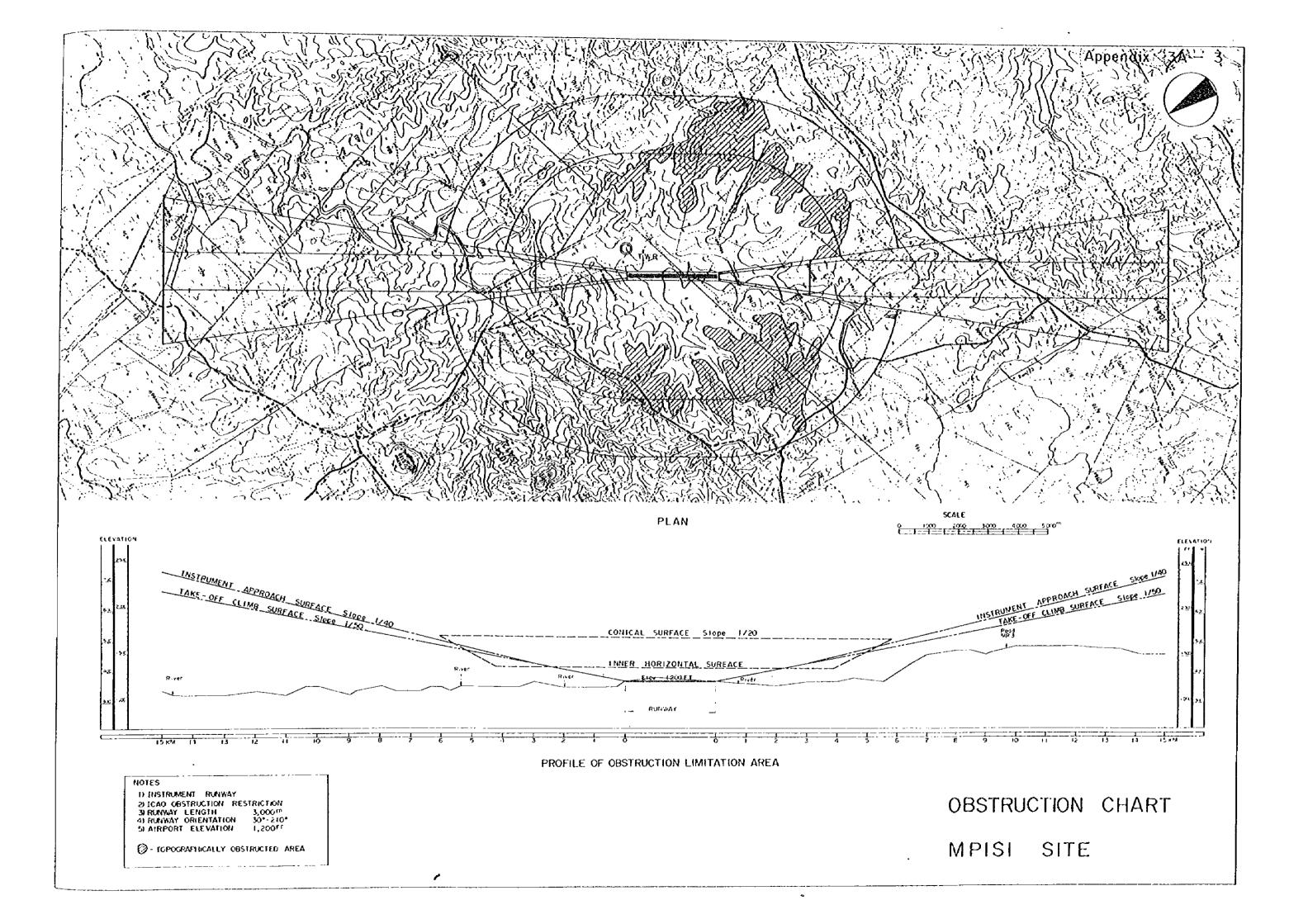
Appendix 1A-4

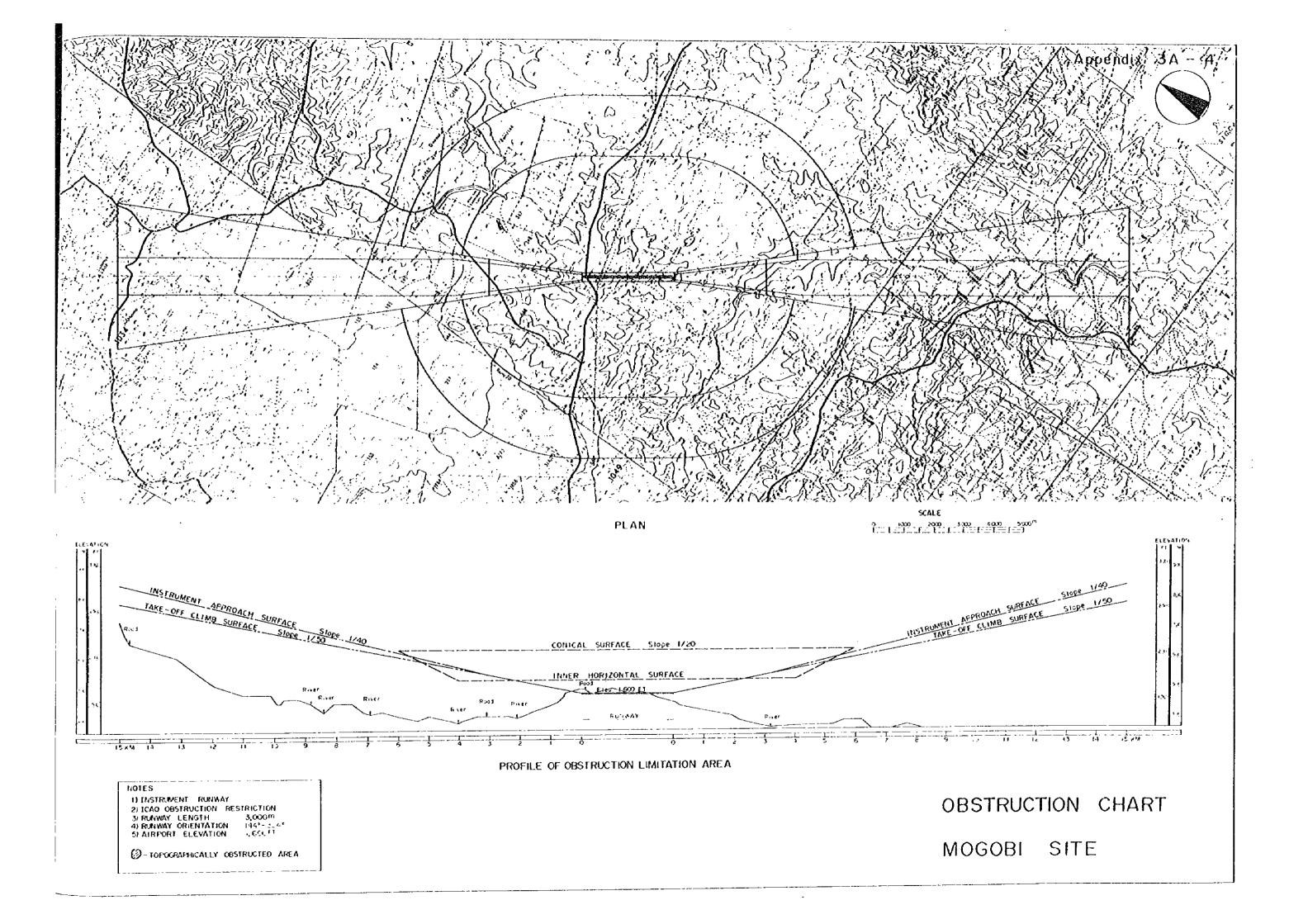
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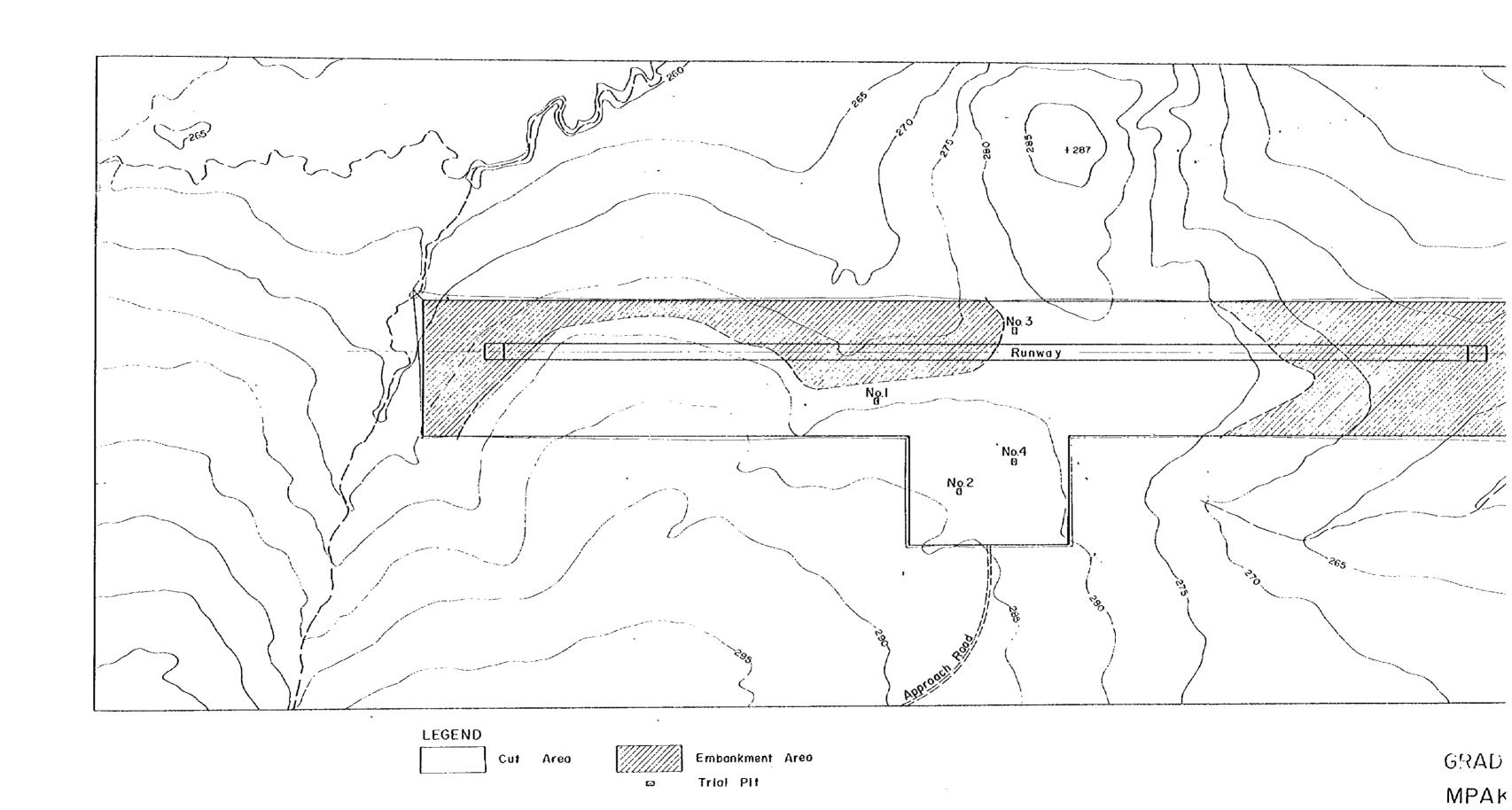






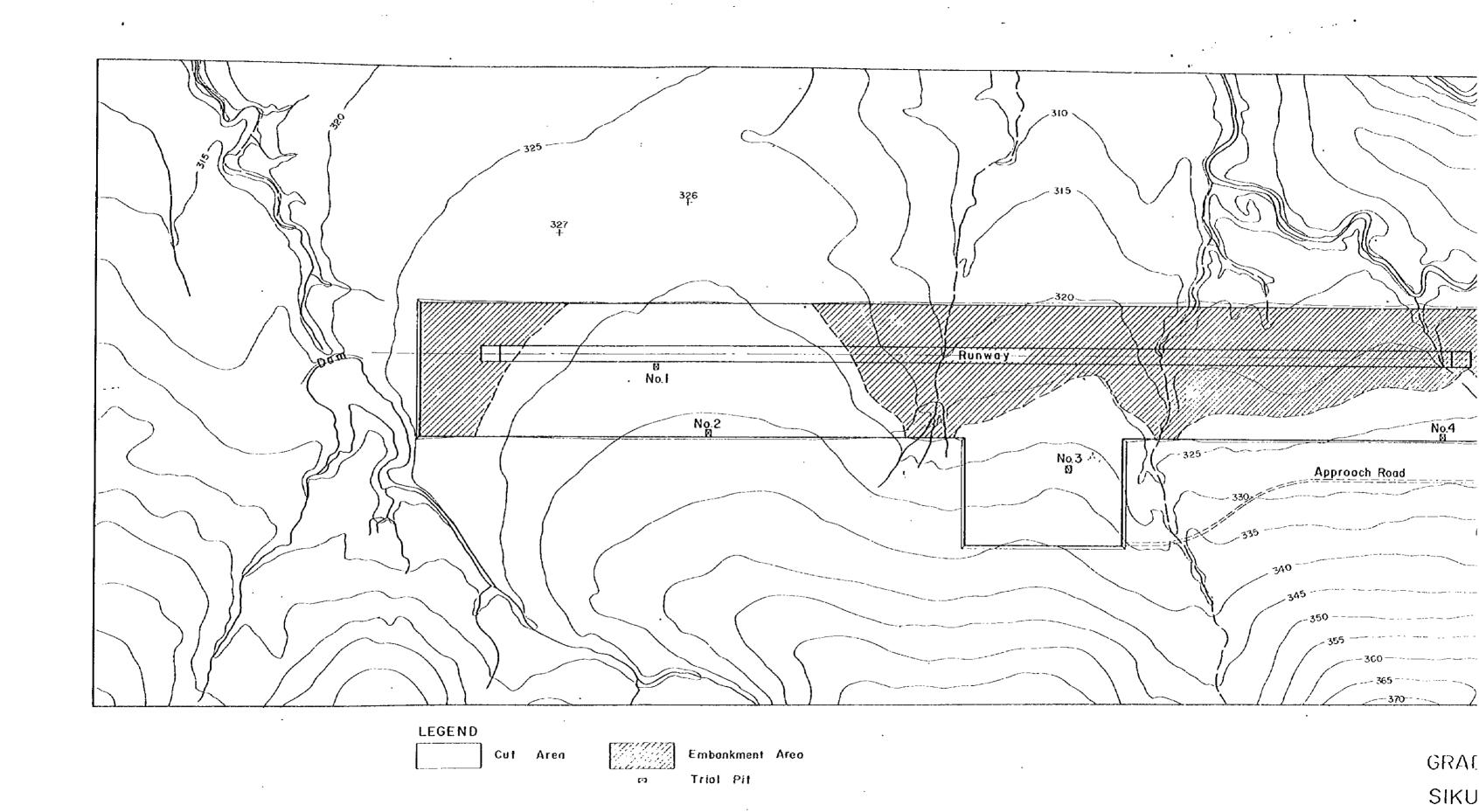


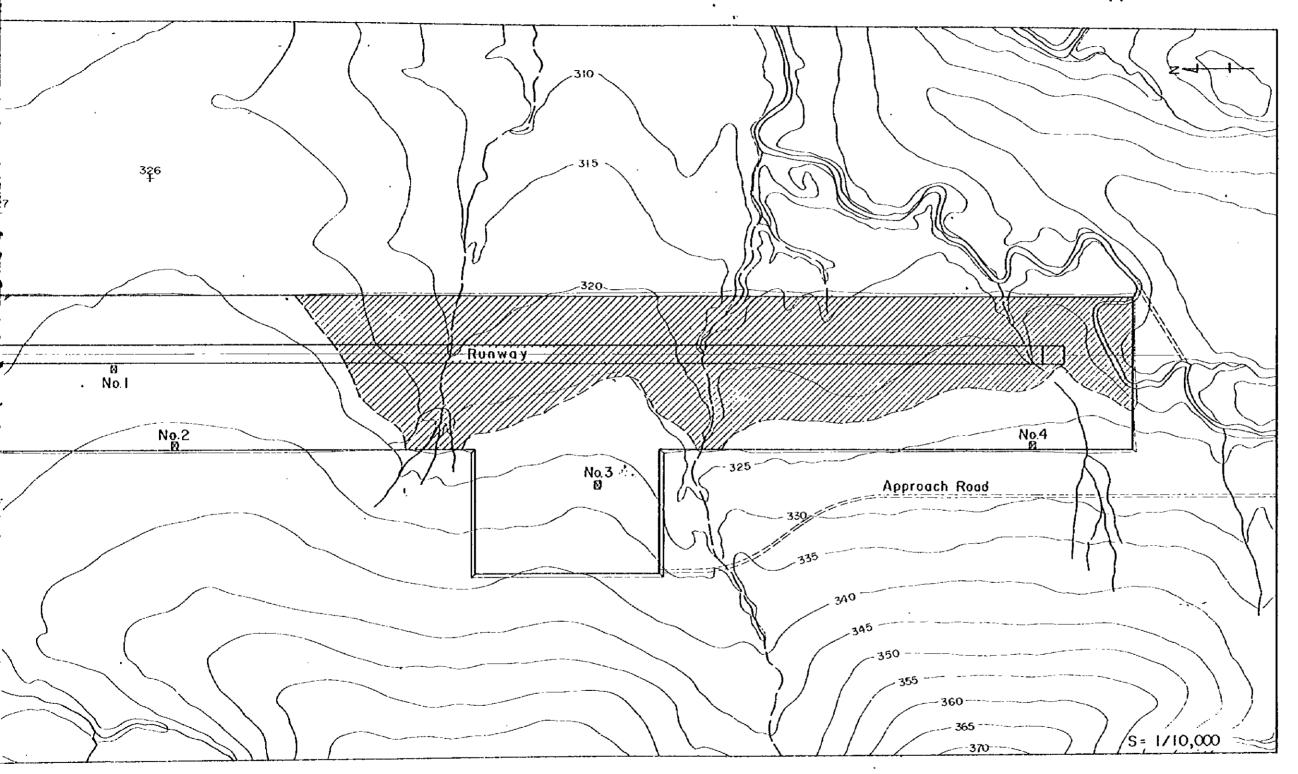




Embankment Area
Trial Pl1

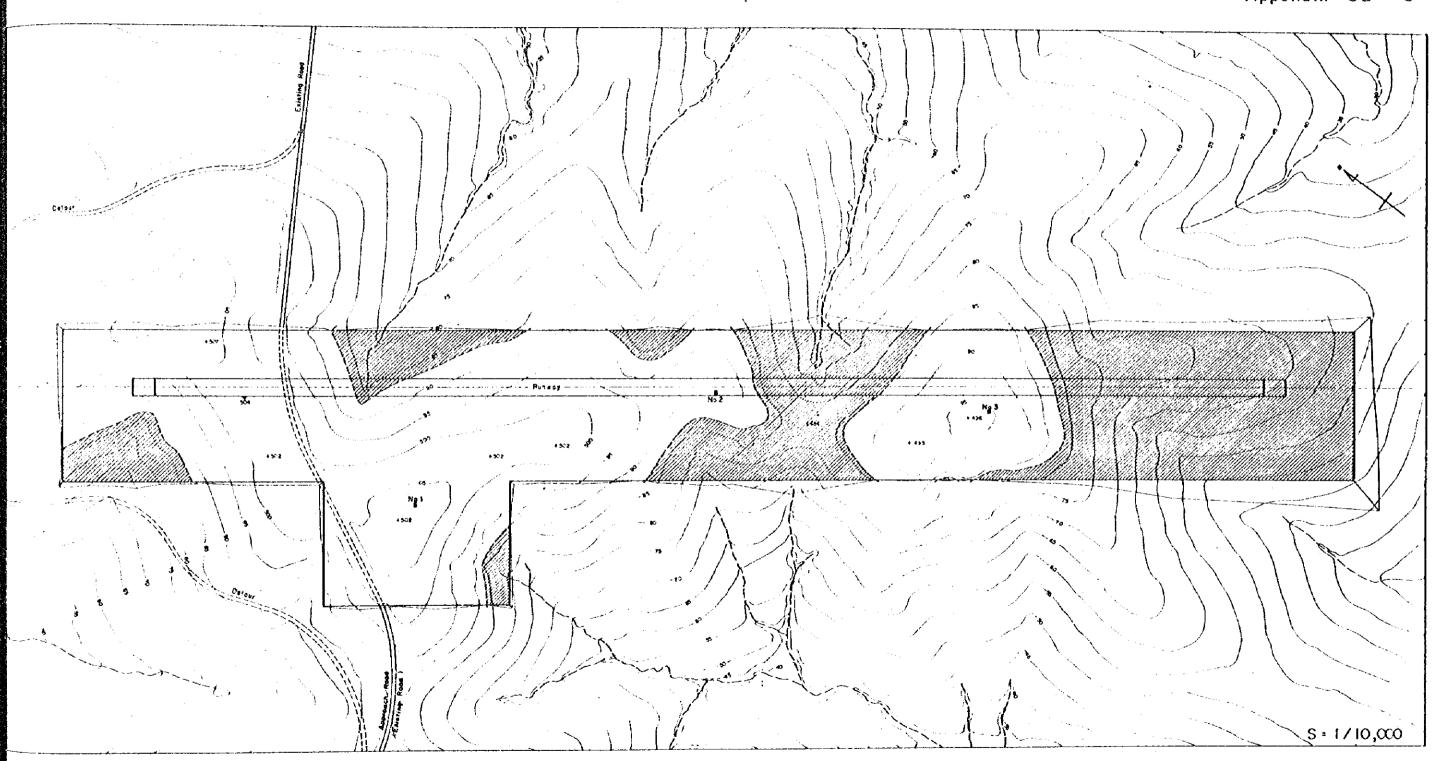
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Embankment Area Trial Pil GRADING PLAN SIKUPE SITE

Appendix 3B - 3

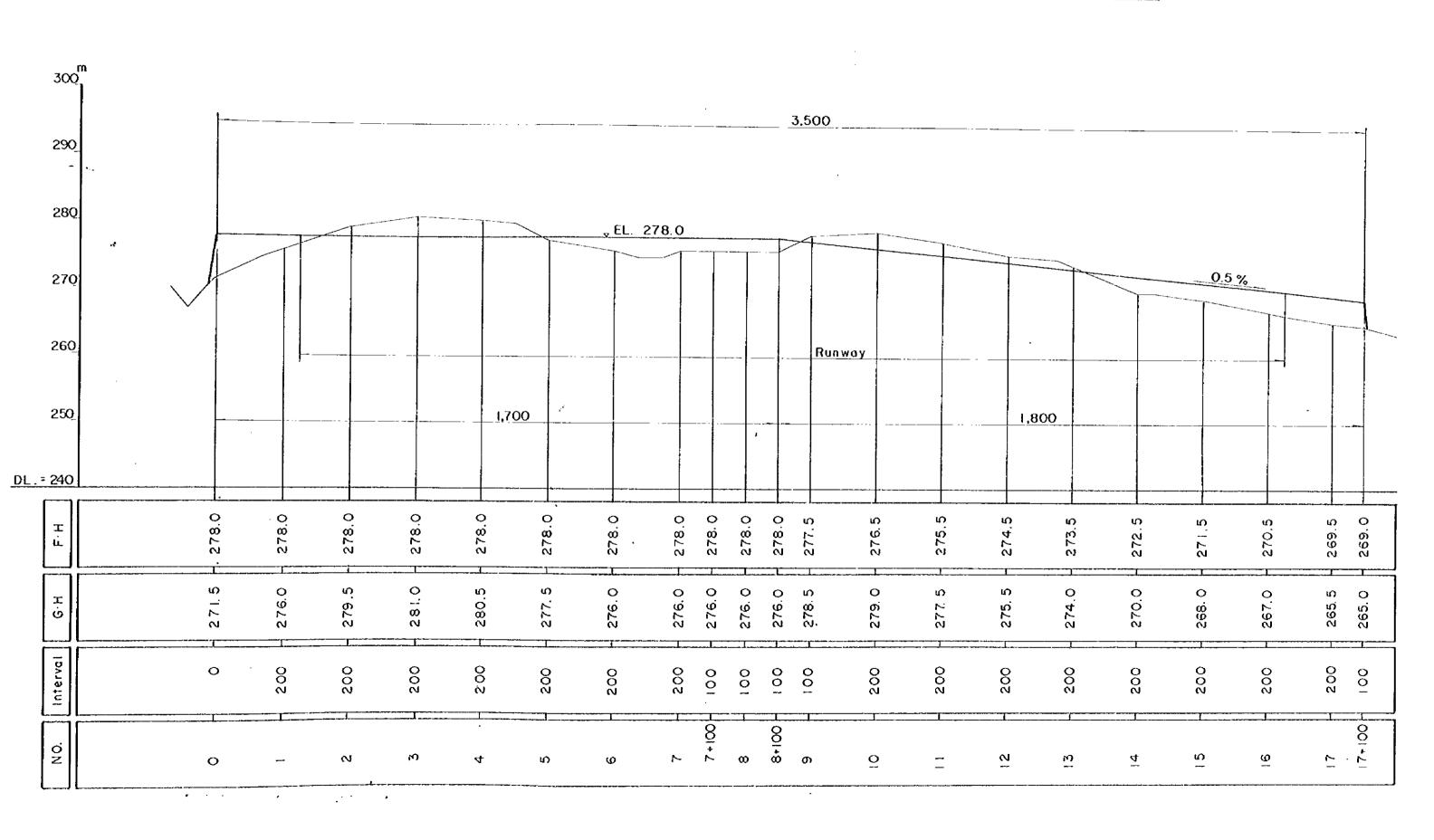


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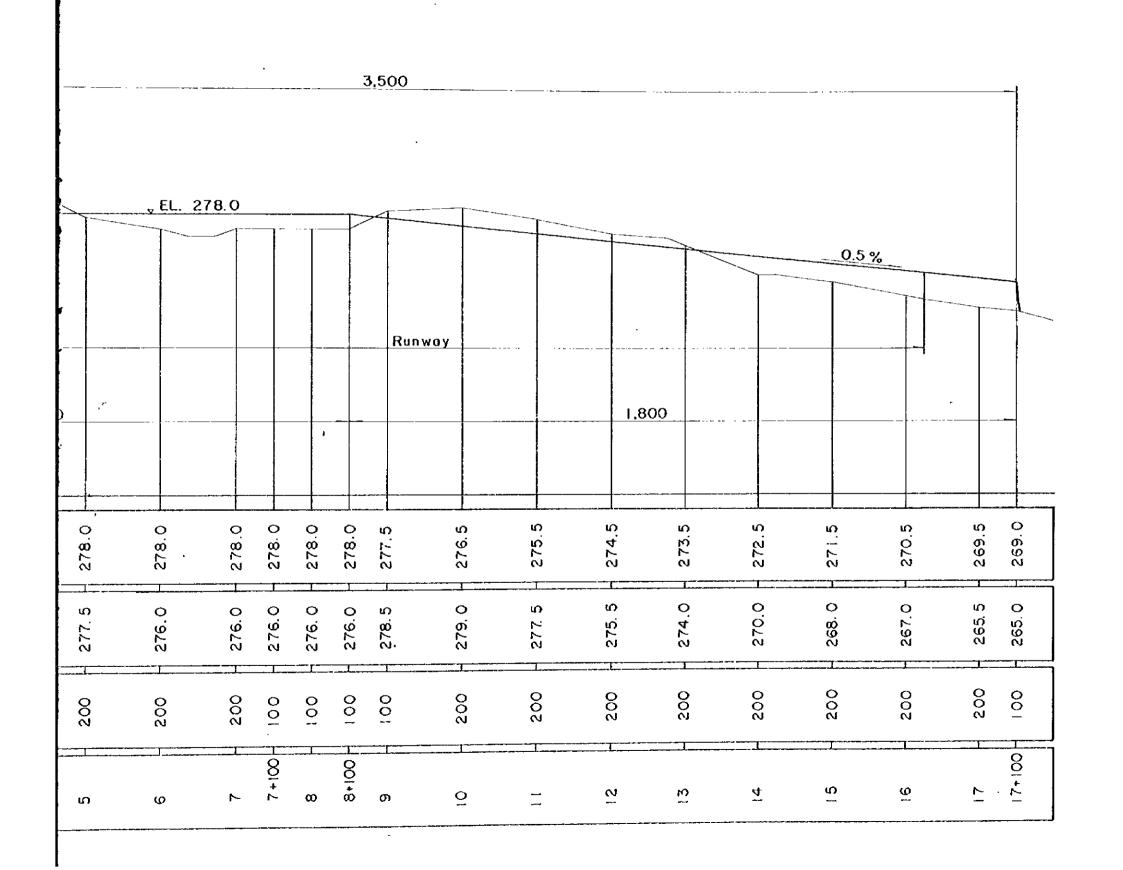
GRADING PLAN MOGOBI SITE

MPAKA SITE

LONGITUDINAL SECTION S: H = 1/10,000

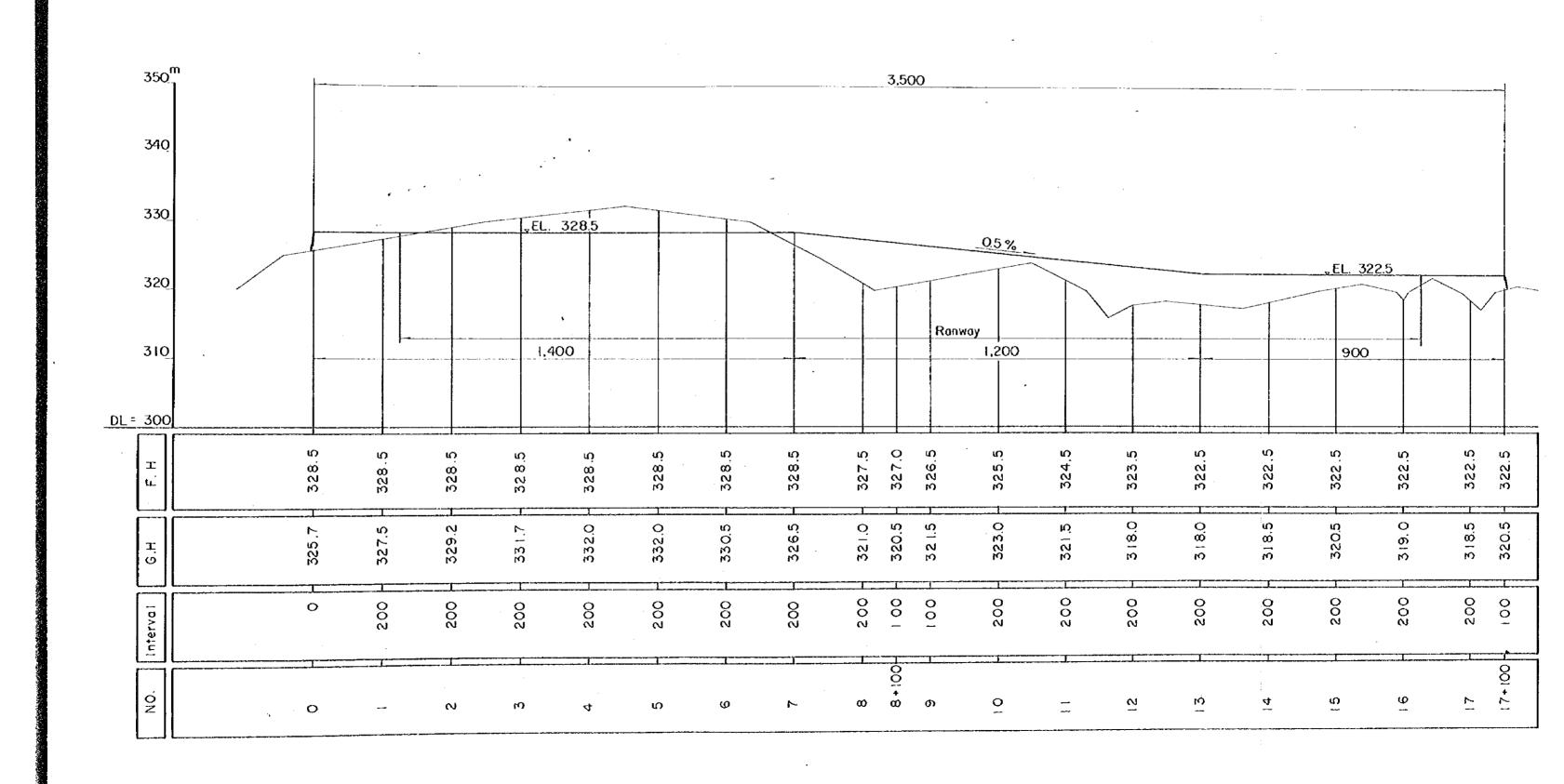


Appendix 3C - I



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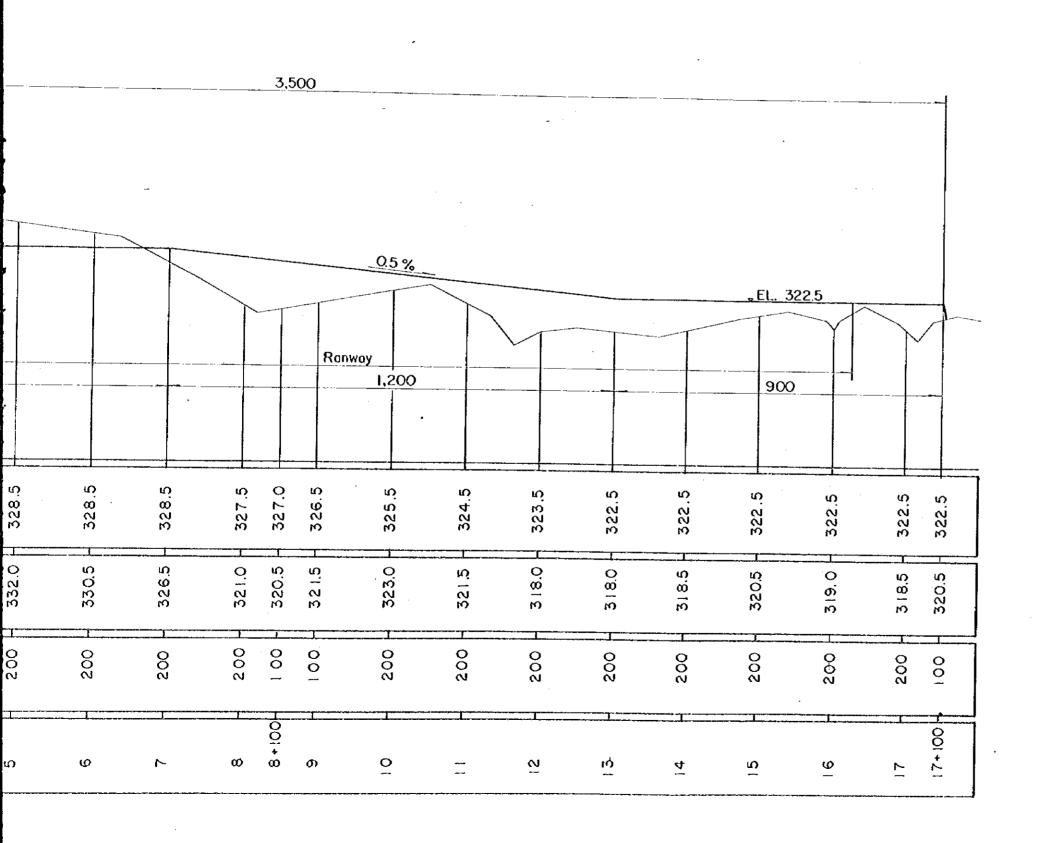
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SIKUPE SITE

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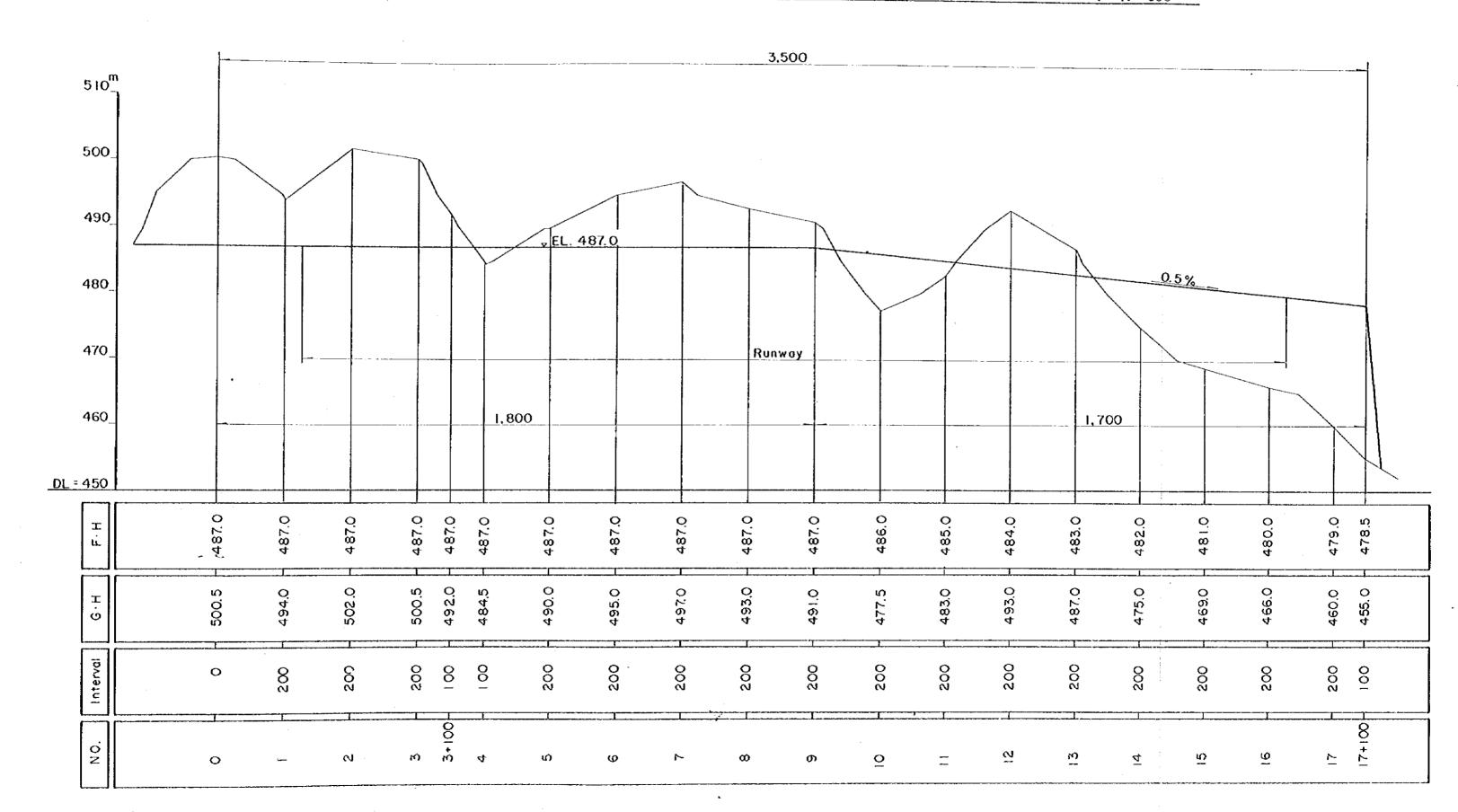


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MOGOBI SITE

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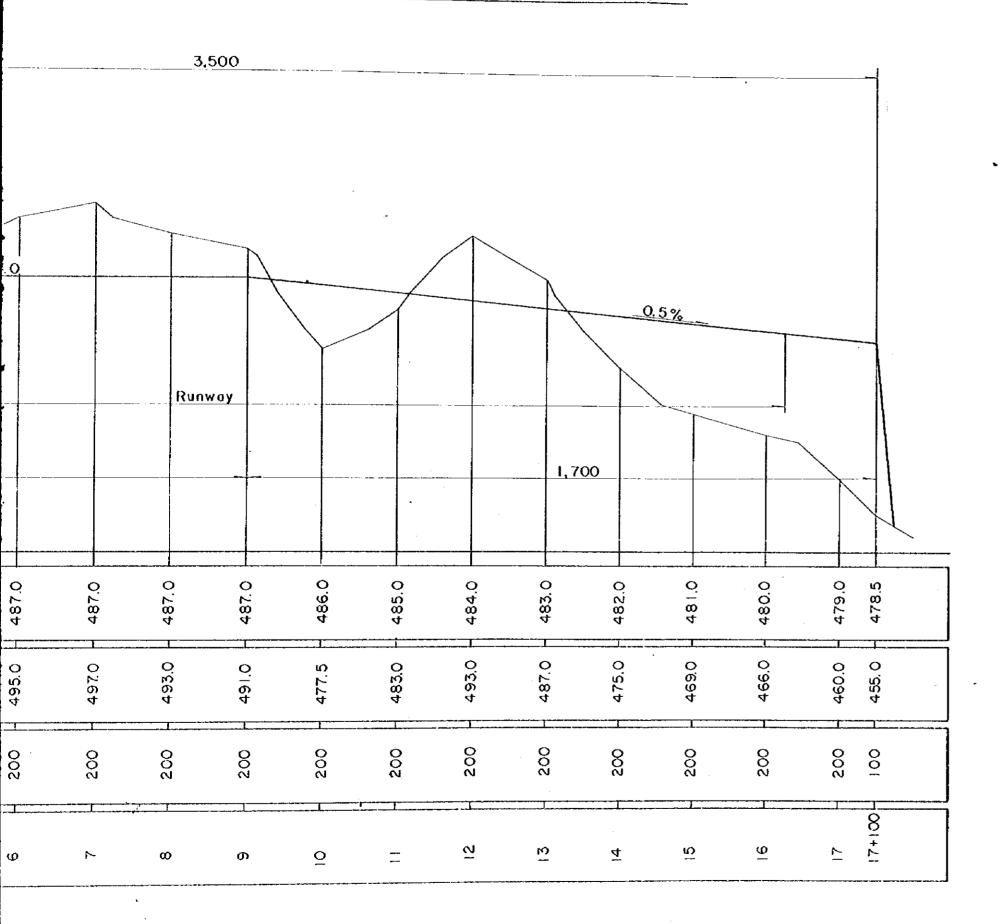
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Appendix 3C - 3

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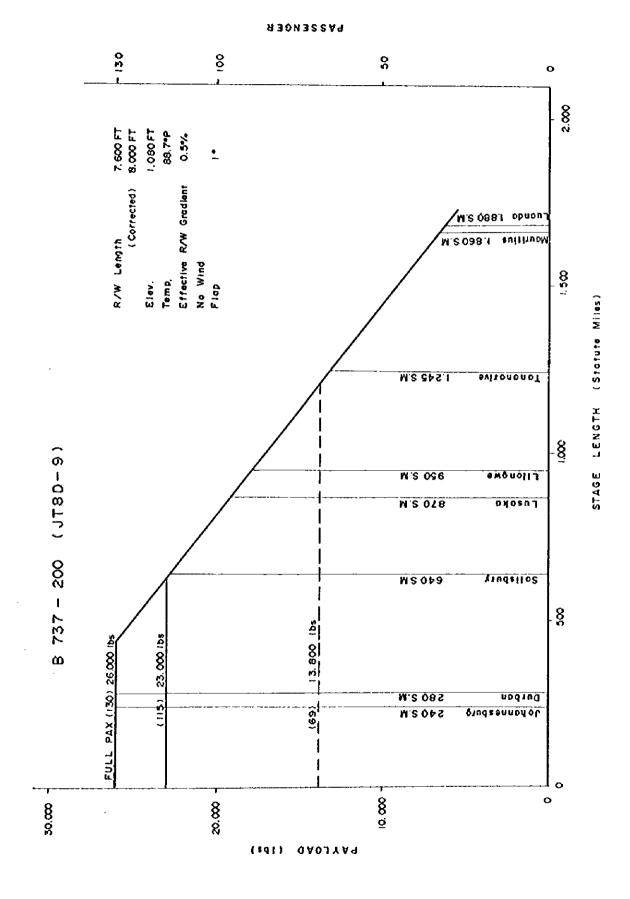
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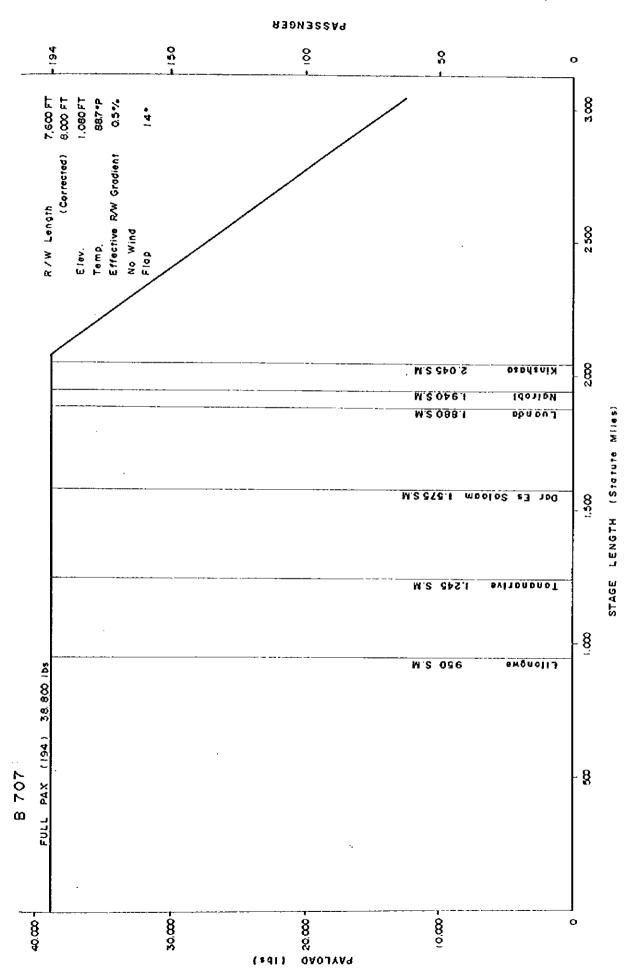
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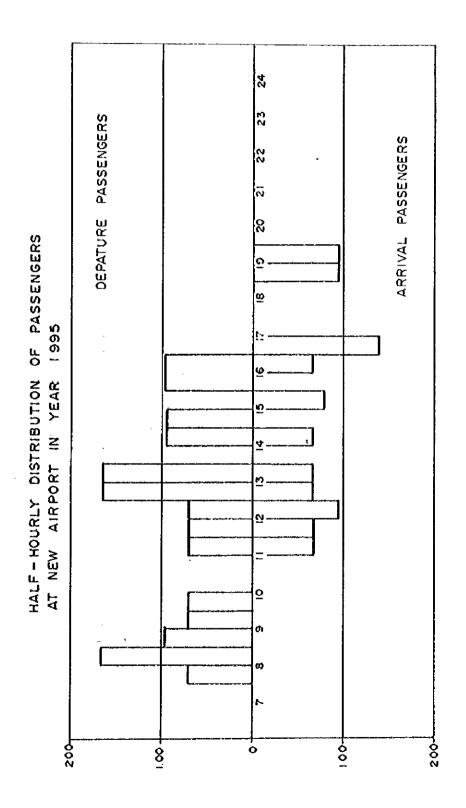
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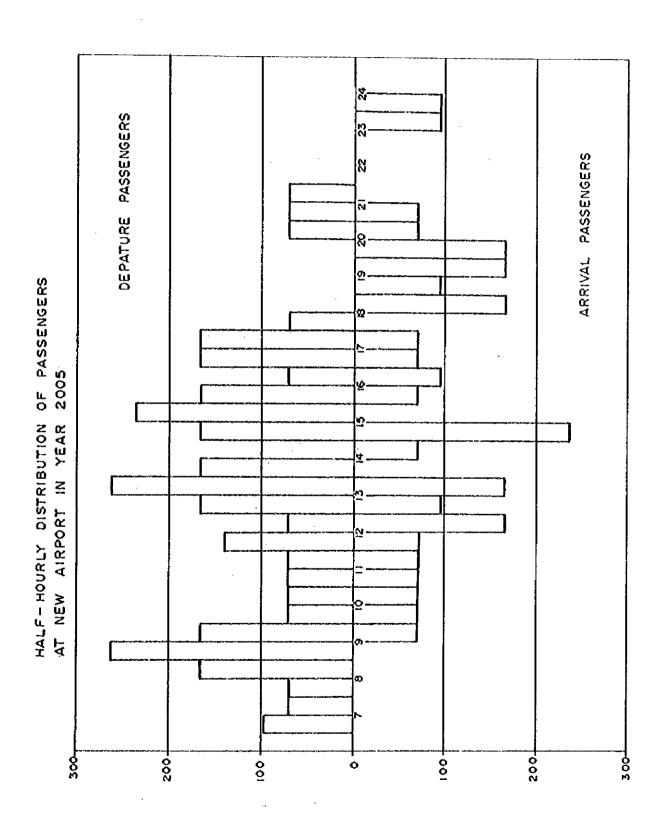
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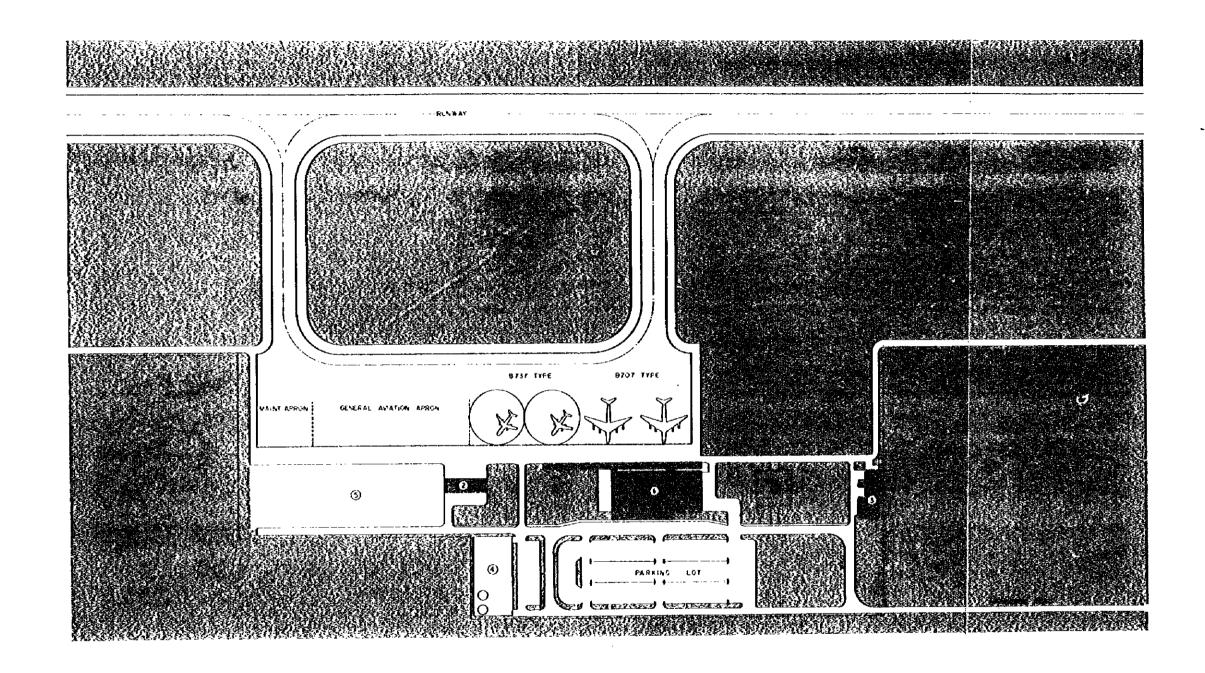
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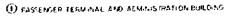












- (2) FIRE FIGHTING AND RESCUE STATION
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- (4) AIRCHAFT FUEL STORAGE AREA
- (5) AIRCRAFT MAINTENANCE AND GENERAL AMATION ASEA
- (6) HEAD OF STATES BUILDING AGEA

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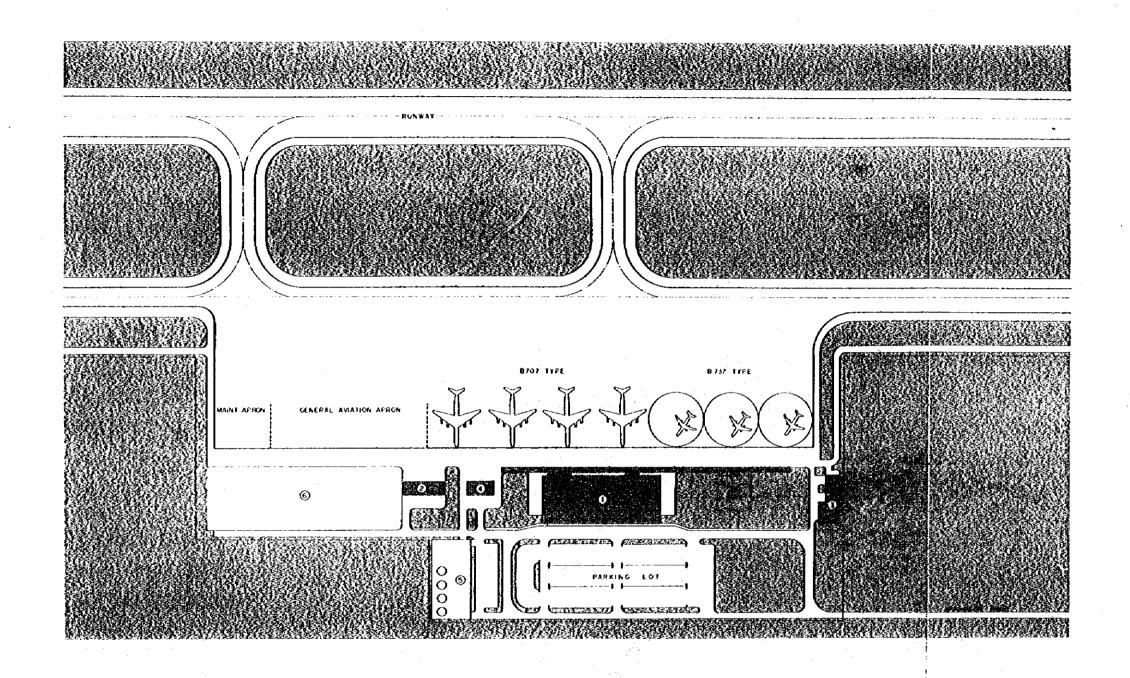
KINGDOM OF SWAZILAND

MINISTRY OF WORKS, POWER AND COMMUNICATIONS

NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

TERMINAL AREA LAYOUT PLAN STAGE 1

No. 13



- TO PASSENGER TERMINAL AND ACMINISTRATION BUILDING
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- 1 CARGO TERMINAL BUILDING
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- 6 AIRCRAFT MAINTENANCE AND GENERAL AVIATION AREA
- THEAD OF STATES BUILDING AREA

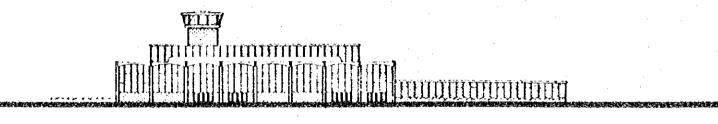


MINISTRY OF WORKS, POWER AND COMMUNICATIONS

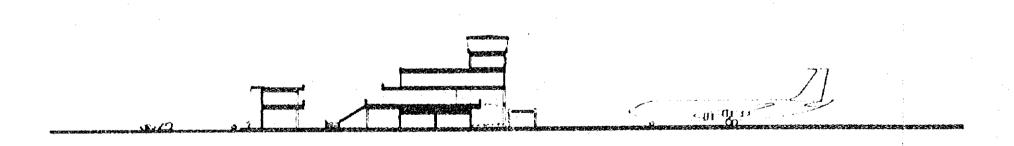
NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

TERMINAL AREA LAYOUT PLAN STAGE E

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ELEVATION



SECTION



KINGDOM OF SWAZILAND

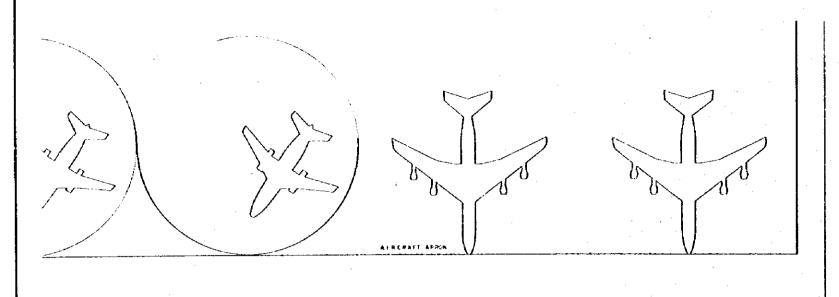
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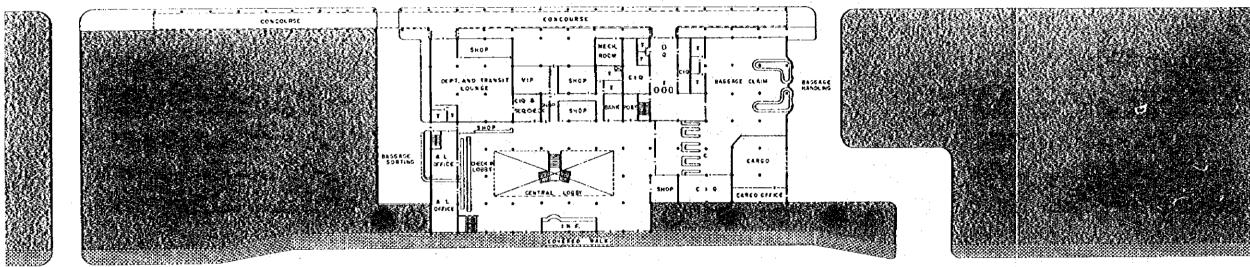
NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

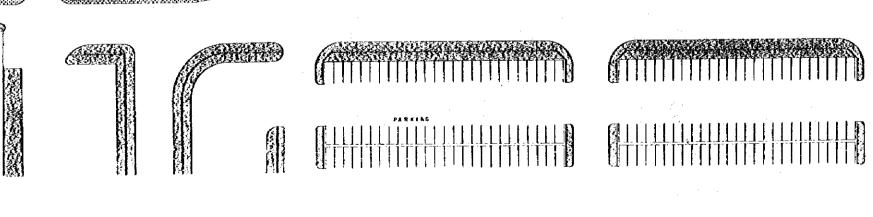
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JAPAN INTERNATIONAL COOPERATION AGENCY

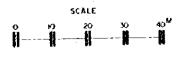
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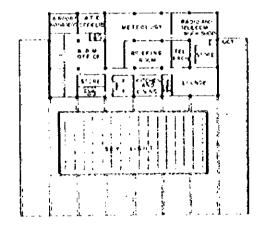




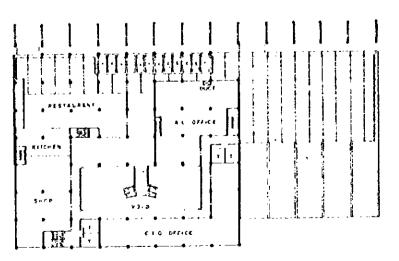
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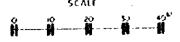
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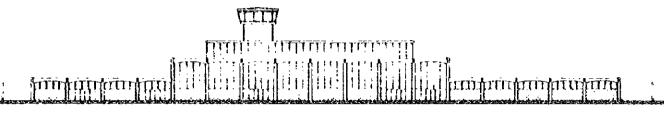




MINISTRY OF WORKS, POWER AND COMMUNICATIONS

NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

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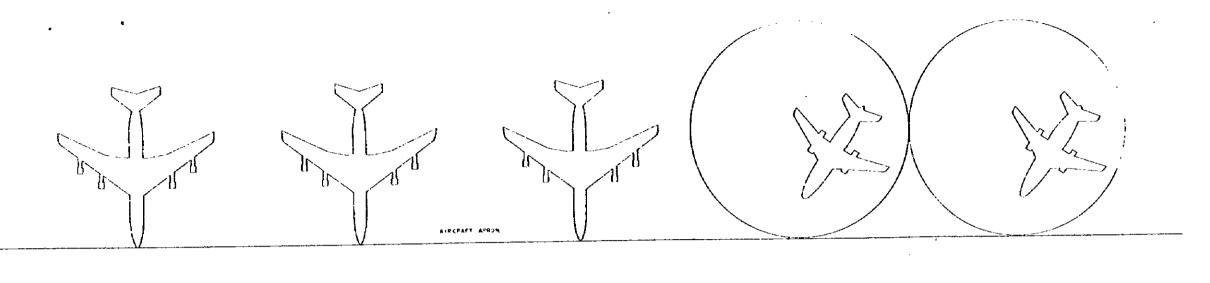
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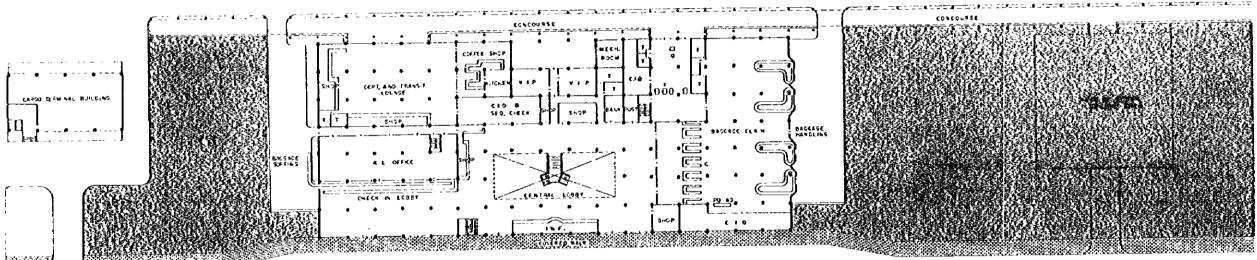
KINGDOM OF SWAZILAND

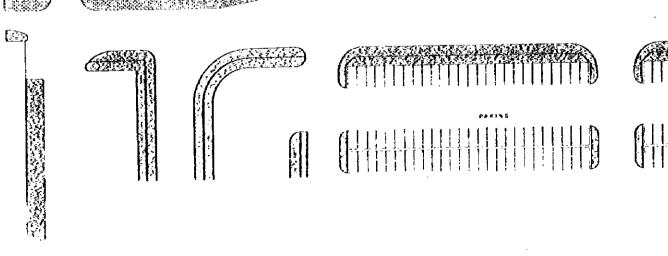
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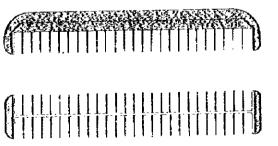
NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

PASSENGER TERMINAL AND ADMI-MAR 1980
NISTRATION BUILDING
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MINISTRY OF WORKS, POWER AND COMMUNICATIONS

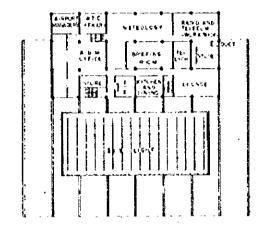
NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

PASSENGER TERMINAL AND ADMI-MAR.1980
NISTRATION BUILDING
GROUND FLOOR PLAN STAGE 1 No. 19

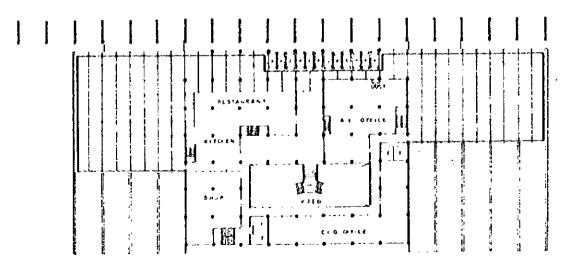


4 TH FLOOR PLAN

3 RD FLOOR PLAN



2 NO PLOOR PLAN



GRED THE SERVICES

0715/45

KINGDOM OF SWAZILAND

MINISTRY OF WORKS POWER AND COMMUNICATIONS

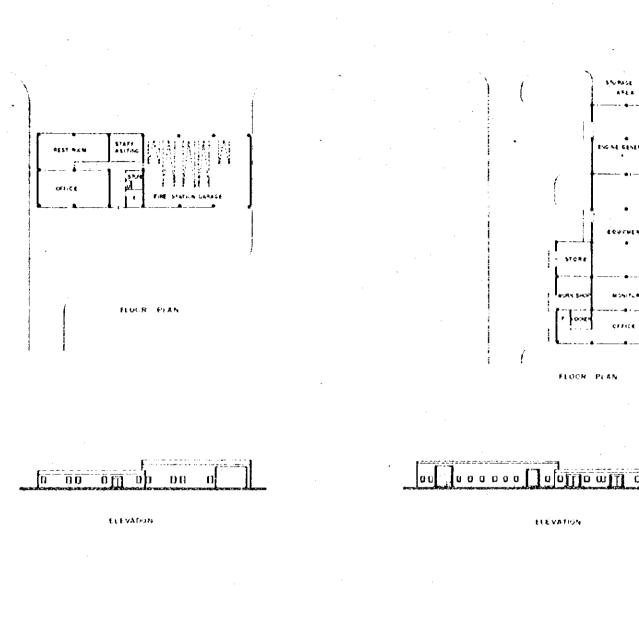
NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

PASSENGER TERMINAL AND ADMI-MAR 1980
NISTRATION BUILDING 1ST
AND 2ND FLOOR PLAN STAGE # No 20

JAPAN INTERNATIONAL COOPERATION AGENCY

IST FLOOR PLAN

JAPAN INTERNATIONAL COOPERATION AGENCY



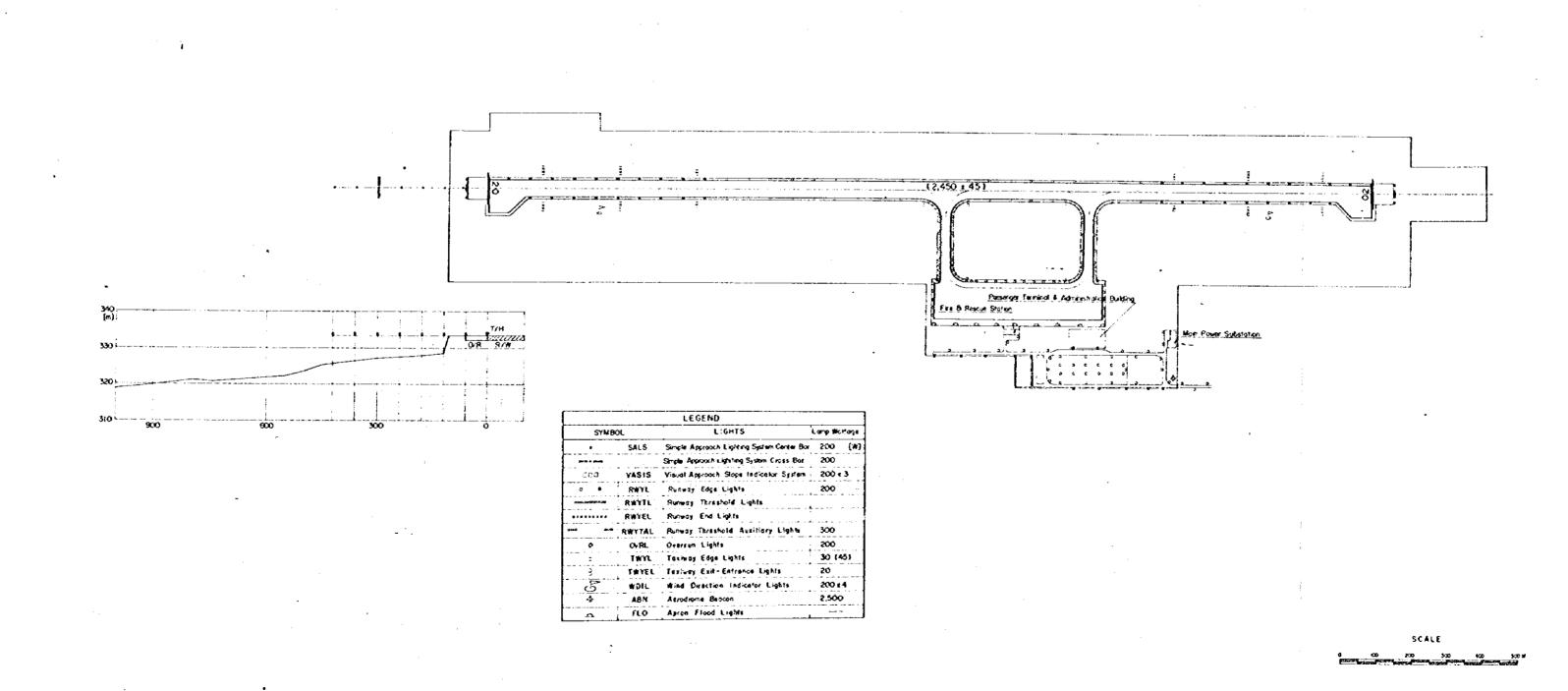
SECTION

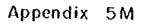
FIRE/RESCUE STATION

SECTION

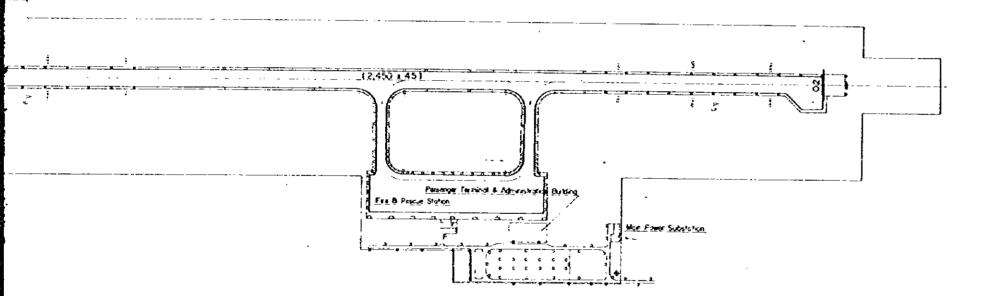
MAIN SUBSTATION

SCALE









		LEGEND	
SYMBOL		L:GATS	Lamp Nord
•	SALS	Simple Approach Lighting System Certili Bor	\$00
	• • •	Simple Approach Lighting System Cross Bor	200
142	VAS15	Visual Approach Slope Indicator System	200 € 3
a •	RWYL	Sanway Edge Lights	200
. = = = = = = = = = = = = = = = = = =	RWYTL	Russay Threshold Eights	
	RATEL	Runway End Lights	
(a.48)	RWYTAL	Roman Threshold Auxiliary Lights	300
0	CNRL	Overrun Lights	200
	TWYL	Touway Edga Lughts	30 (45
	TWYEL	Termeny Exit-Entrance Lights	50
ं	#DIL	Mind Direction Indicator Lights	200 4
-3-	ABY	Asrodiome Between	2.500
	FLO	Apron Flood Lights	

SCALE

KINGDOM OF SWAZILAND

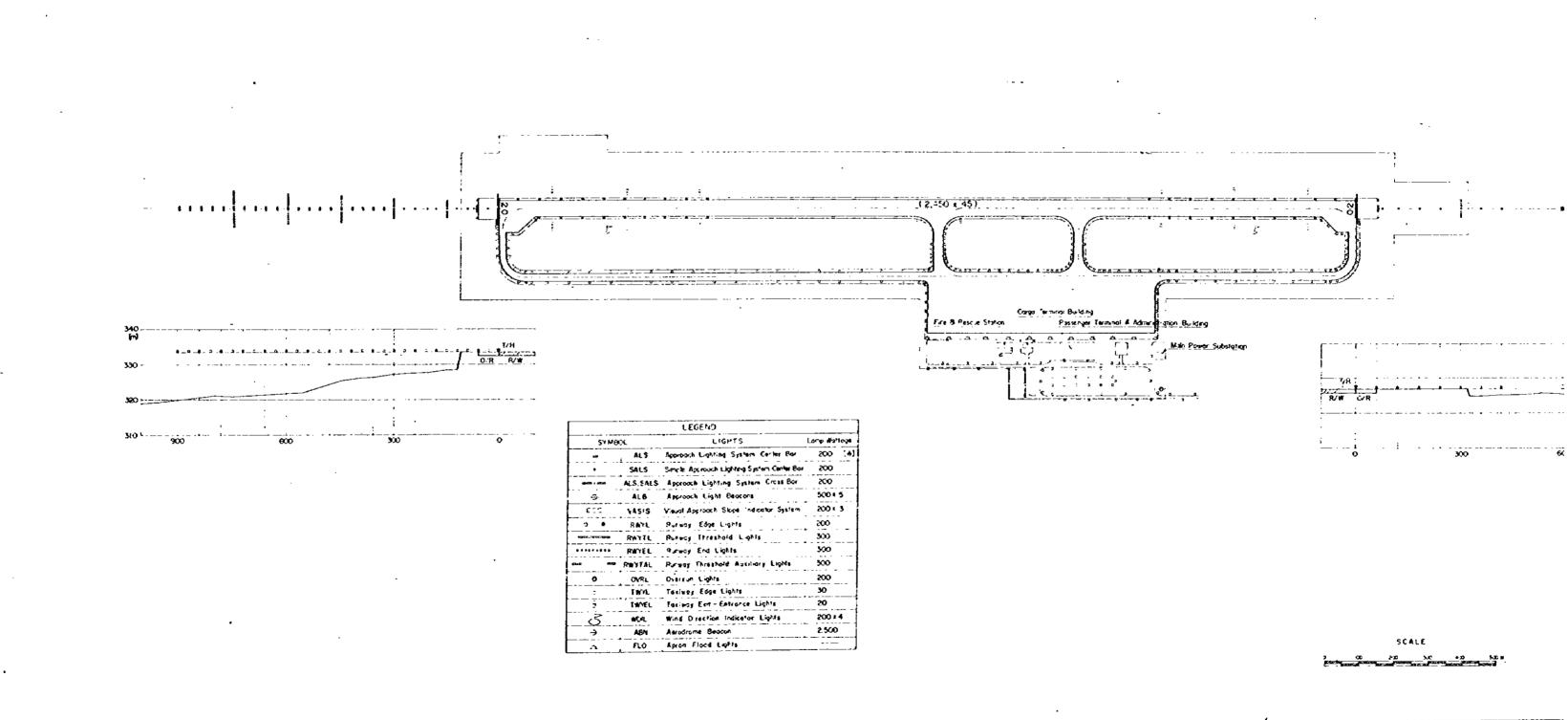
MINISTRY OF WORKS, POWER AND COMMUNICATIONS

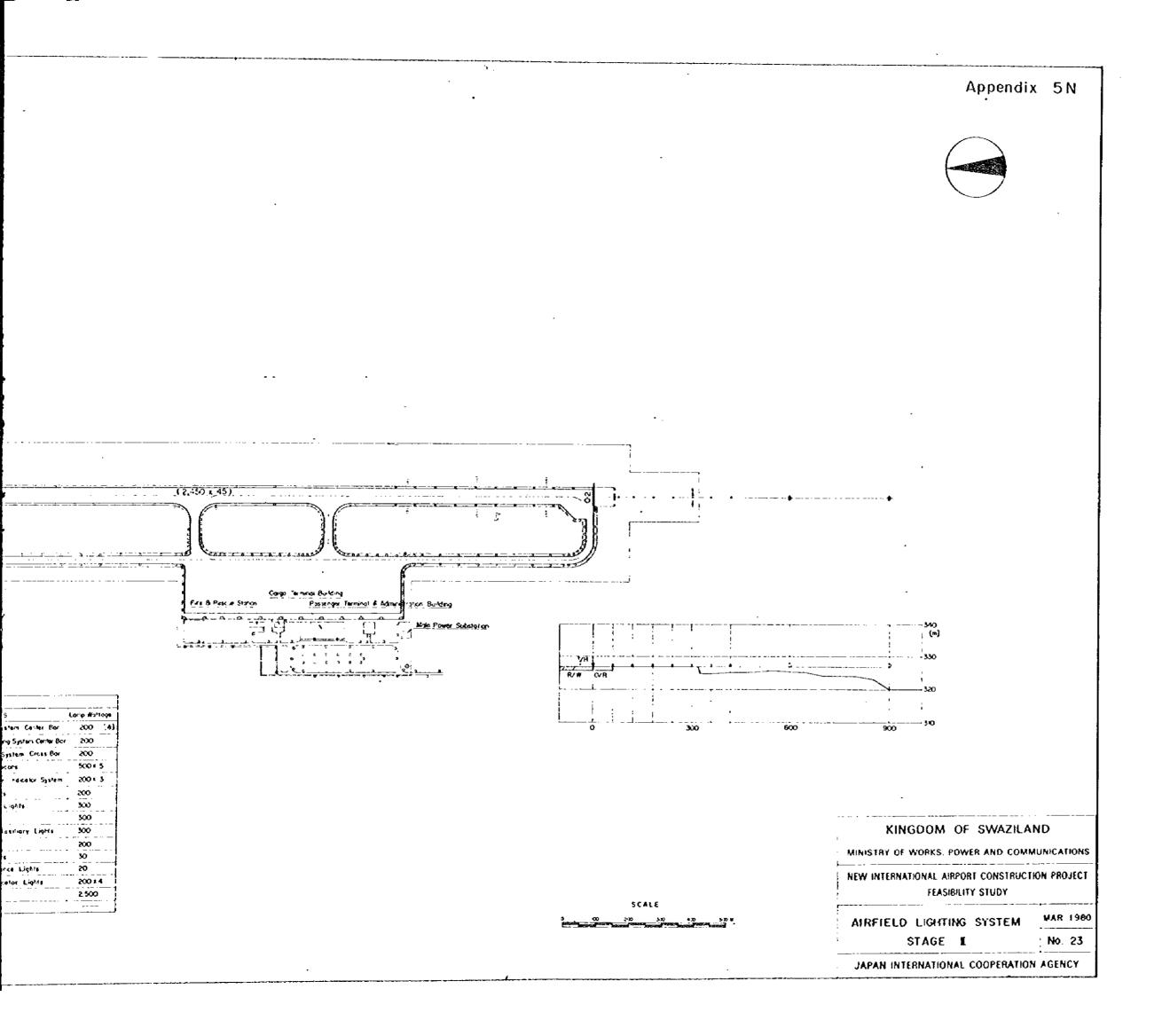
NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT
FEASIBILITY STUDY

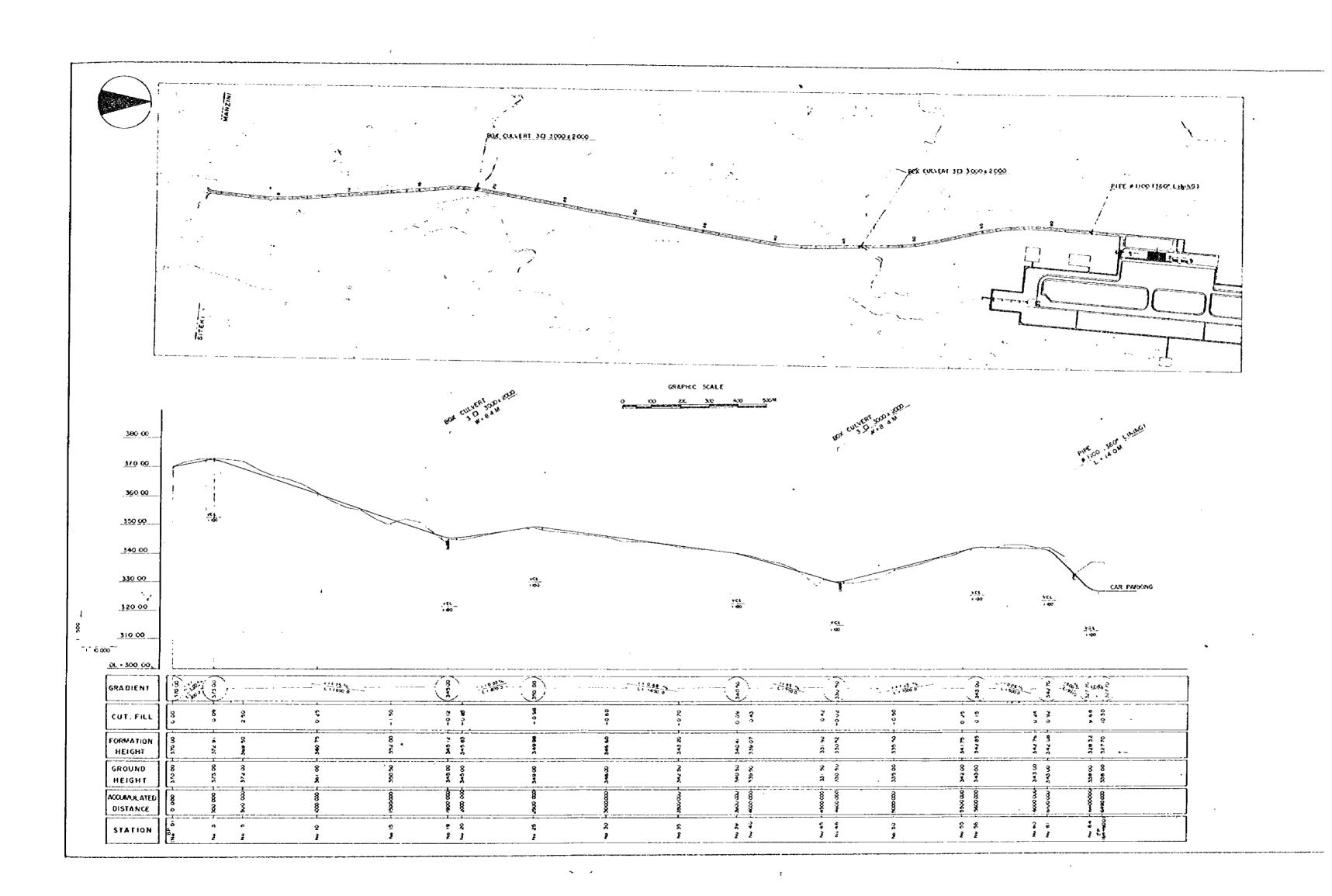
AIRFIELD LIGHTING SYSTEM
STAGE I

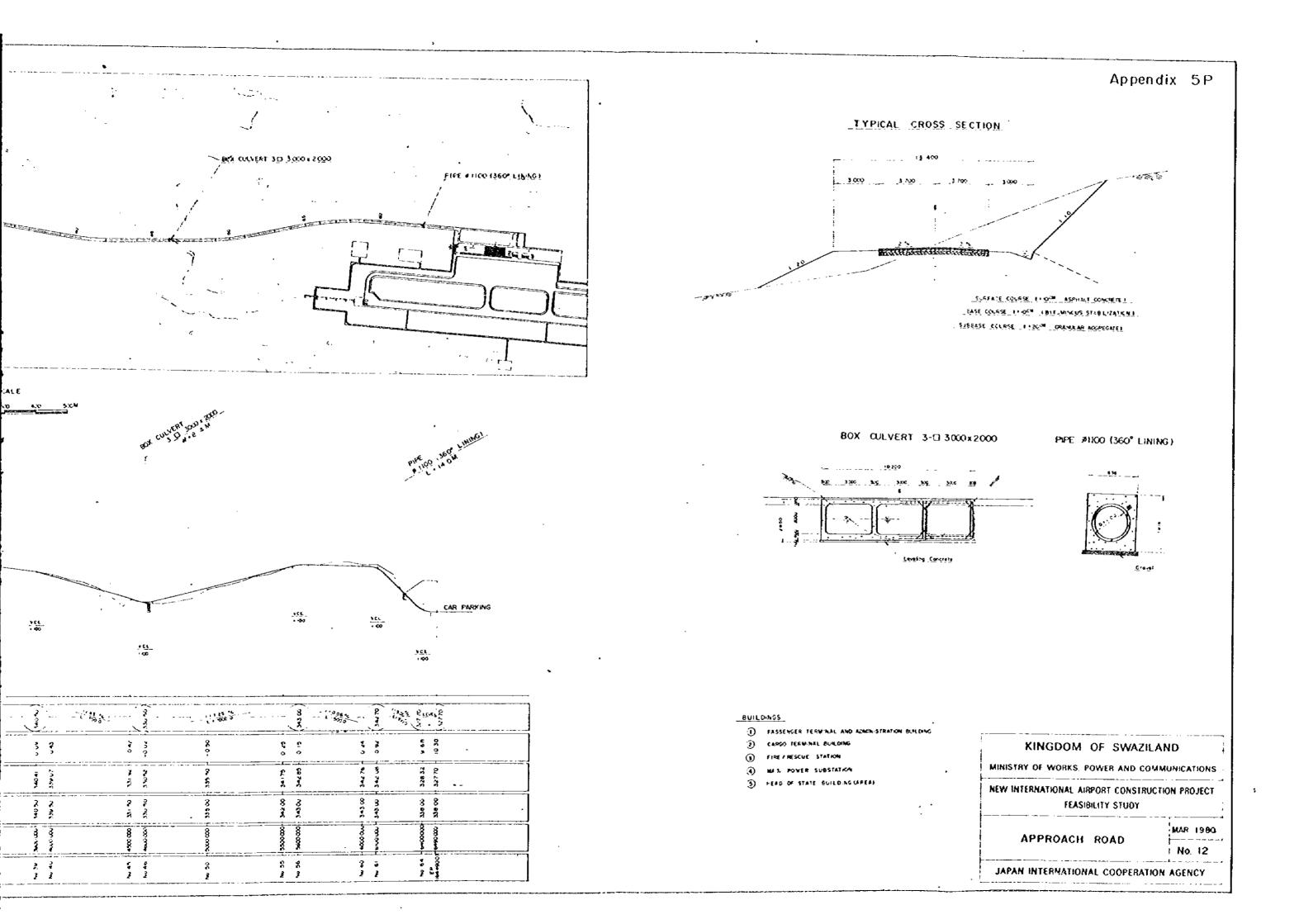
AR 1980

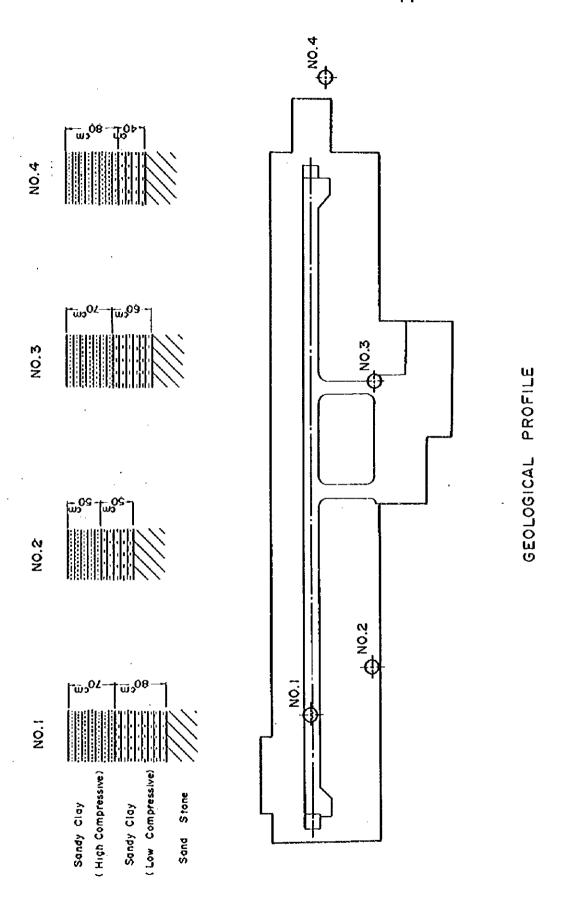
No. 22







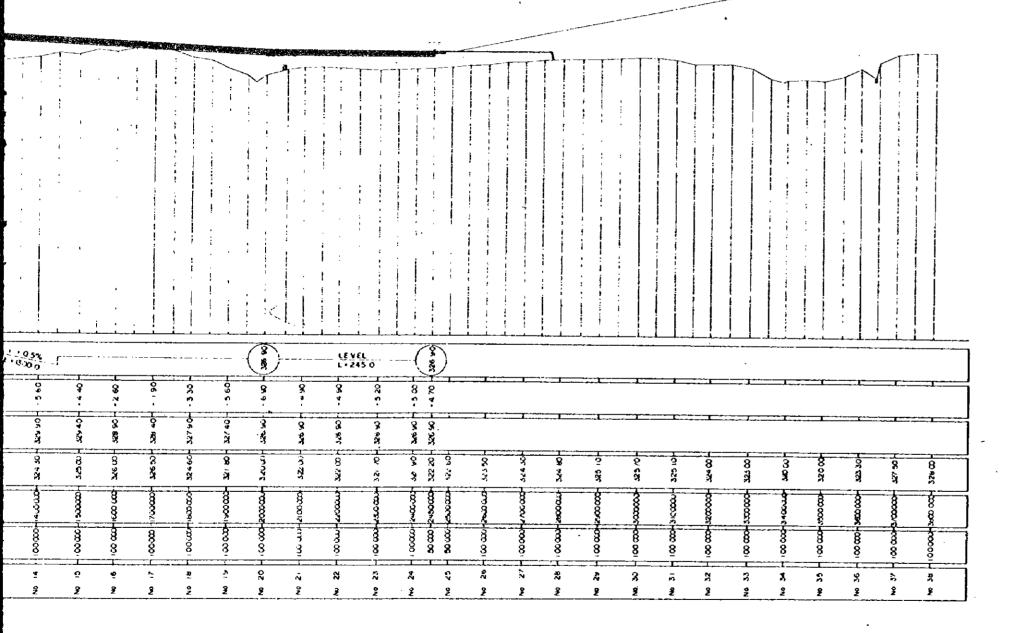




Results of Soil Tests (SIKUPE SITE)

								APPENDIX (5A-2	
6	90 - 110	13.3	92.7 70.6 50.1	37.6 20.2 17.4	13 11 1.750 1.369 (78%)	1.3	A-7-6 Clayey Soil	ਰੇ :	E-7	
Test	70 - 80	1	97.9 74.4 54.7	42.2 16.8 25.4	7 5 1.875	1.9	A-7-6 Clayey Soil	ರ :	E-7	
*	110 - 120	13.4	93.6 73.7 52.8	41.0 20.6 20.4	6 5 1.820 1.519 (83%)	3.1	A-7-6 Clayey Soil	ಕೆ :	M-7	
Test 2	50 - 110	1	96.7 72.5 55.0	44.4 20.1 24.3	3 3 1.786	3.4	A-7-6 Clayey Soil	CL Low Plastic Clay. Sandy Clay.	E-7	
	0 - 50		97.9 62.1 25.2	15.9 13.1 2.8			A-2-4 Silty Gravel & Sand	SM Silty Sand Silt & Sand	E-4	
	100 - 110	13.4	98.6 74.1 56.7	43.8 21.1 22.7	6 4 1.825 1.527 (84%)	2.4	A-7-6 Clayey Soil	CL Low Plastic Clay. Sandy Clay.	E-7	
Test	4 = 30 - 85	•	98.7 65.5 53.0	51.6 21.0 30.6	5 5 1.835	2.5	A-7-6 Clayey Soil	CR Plastic Clay.	8 - 3	
Test Pit	Lepta (cm)	Field Moisture Content (%)	Passing 2.0mm (%) " 0.42mm (%) " 0.074mm (%)	(%) FI (%) FI (%)	CER (56) (2) " (25) (%) Max. D.D (kg/cm ³) Field Density (")	Expansion (56) (%) " (25) (%)	AASEO Type	US Type	FAA	
	Test	Field	Steve Analysis	Accer- berg's Limits	teal notte	Compa	iteation	lissel) li	os .	÷

350.00 300 € 5000 OL • 250 00 GRANDIENT CUT FILL FORMATION нібнт GROUND HIGHT ACOMMATED DISTANCE DISTANCE



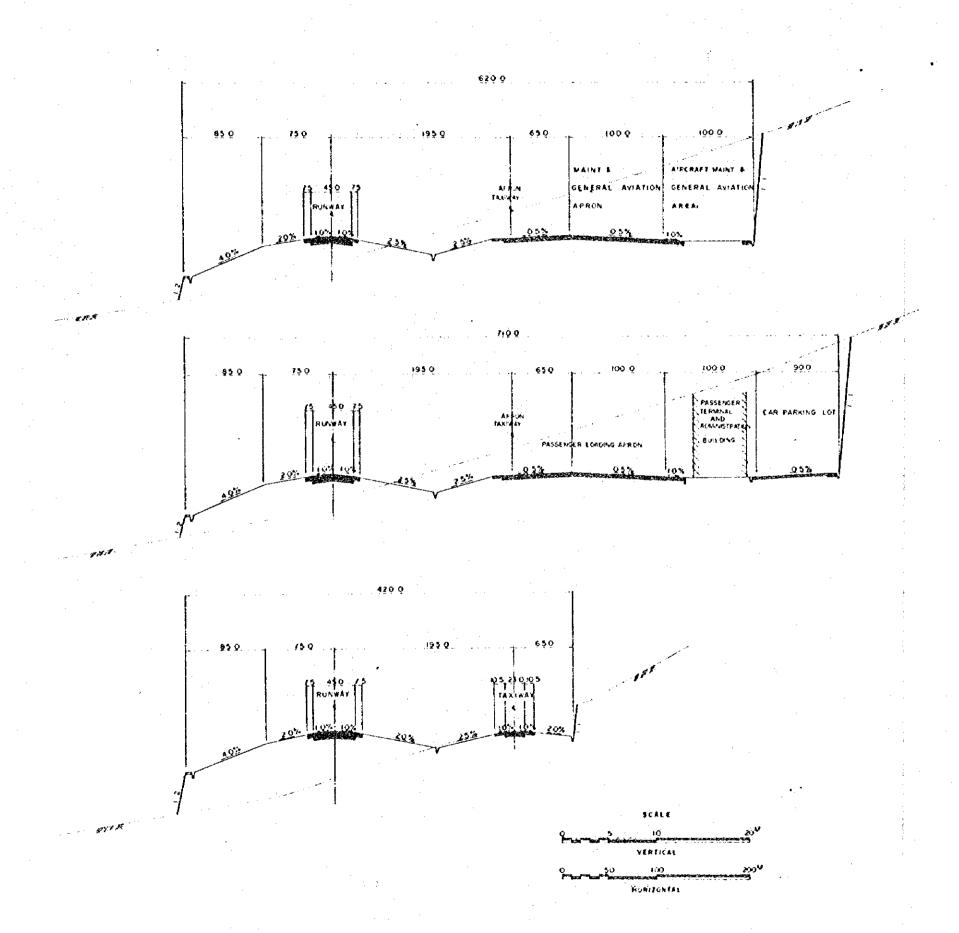
KINGDOM OF SWAZILAND

MINISTRY OF WORKS, POWER AND COMMUNICATIONS

NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT
FEASIBILITY STUDY

LONGITUDINAL PROFILE OF RUNWAY
No. 6

JAPAN INTERNATIONAL COOPERATION AGENCY



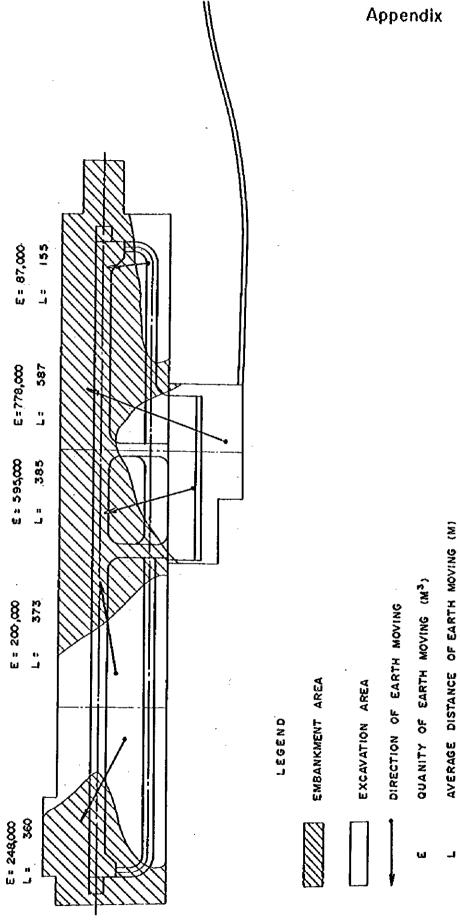
MINISTRY OF WORKS, POWER AND COMMUNICATIONS

NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

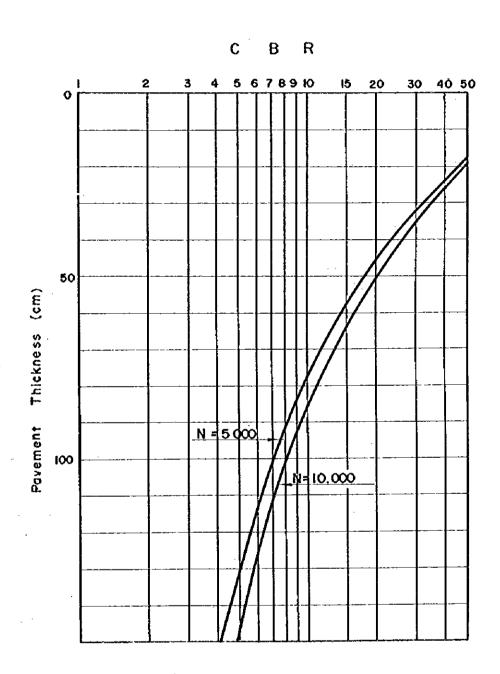
RUNWAY STRIP

MAR. 1980

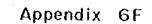
TYPICAL CROSS SECTION



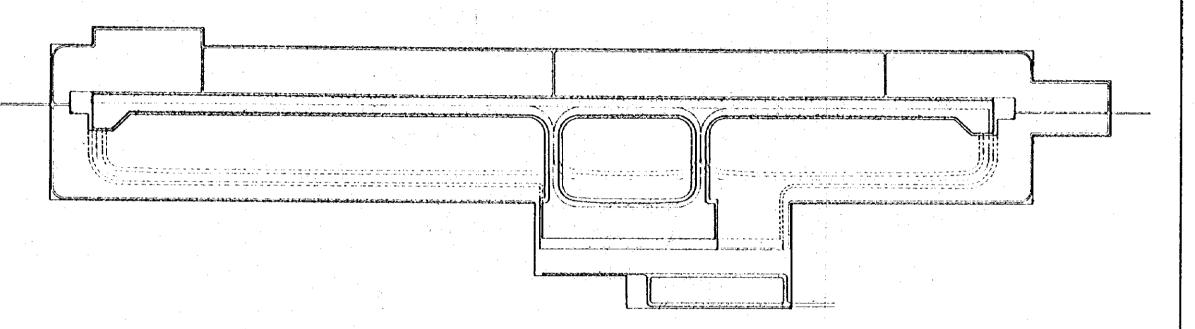
DISTRIBUTION DIAGRAM OF EARTHWORK



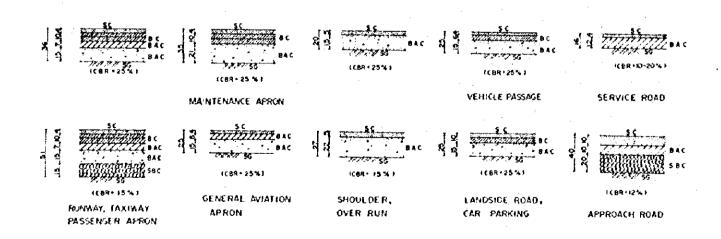
N: Repetition of design load







PAYEMENT STRUCTURE : SECTION



100 200 500 400 500 M

LEGEND

AIRFIELD PAVEMENT

PARKING LOT

LANDSIDE ROAD

TITTLE SERVICE ROAD

LEGEND

TITTE S.G SUBGRADE

S C SURFACE COURSE (ASPHALT CONCRETE)

B C BINDER COURSE (ASPHALT CONCRETÉ)

B A C BASE COURSE (BITUMINOUS STABILIZATION)

B A C BASE COURSE (CRUSIED ADDREGATE FOR MECHANICAL STABILIZATION)

S B C , SUBBASE COURSE (GRAMULAR AGGRÉGATE WITH SAND STONE)

KINGDOM OF SWAZILAND MINISTRY OF WORKS, POWER AND COMMUNICATIONS

NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT FEASIBILITY STUDY

PAVEMENT PLAN

MAR 1980 No. 10

