

SOCIALIST REPUBLIC  
OF  
THE UNION OF BURMA

**RANGOON INTERNATIONAL AIRPORT DEVELOPMENT**  
**FEASIBILITY STUDY REPORT**  
**APPENDIX**

MARCH 1980

JAPAN INTERNATIONAL COOPERATION AGENCY

SDF

80-65



JICA LIBRARY



1016170C13



SOCIALIST REPUBLIC  
OF  
THE UNION OF BURMA

**RANGOON INTERNATIONAL AIRPORT DEVELOPMENT  
FEASIBILITY STUDY REPORT**

**APPENDIX**

MARCH 1980

JAPAN INTERNATIONAL COOPERATION AGENCY

NO. 14354

104  
75.7  
SDF

|                   |      |
|-------------------|------|
| 国際協力事業団           |      |
| 受入<br>月日 584.9.28 | 104  |
| 登録No. 09338       | 75.7 |
|                   | SDF  |

## LIST OF APPENDICES

|             |  |
|-------------|--|
| Appendix 1A | SCOPE OF WORK  |
| Appendix 2A | ECONOMIC AND TRANSPORT DATA  |
| Appendix 3A | AIR TRAFFIC FORECASTS DATA   |
| Appendix 3B | LISTS OF PROJECTION FORMULA  |
| Appendix 4A | RUNWAY DIMENTION OF INTERNATIONAL AIRPORTS<br>IN THE MAJOR CITIES OF SOUTH EAST ASIA |
| Appendix 5A | FINANCIAL ANALYSIS DATA  |
| Appendix 6A | ECONOMIC ANALYSIS DATA   |
| Appendix 7A | DRAWINGS OF AIRPORT FACILITY PLAN  |
| Appendix 7B | SOIL EXPLORATION EQUIPMENTS AND MATERIAL<br>TESTING APPARATUS                        |
| Appendix 8A | AIRFIELD LIGHTING DATA   |





APPENDIX 1A

SCOPE OF WORK

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. This section also touches upon the legal implications of failing to maintain such records, which can lead to severe consequences for individuals and organizations alike.

2. The second part of the document delves into the specific requirements for record-keeping, including the types of documents that must be retained and the duration for which they should be kept. It provides a detailed overview of the various categories of records, such as financial statements, contracts, and correspondence, and outlines the best practices for organizing and storing these documents to ensure they are easily accessible and secure.

3. The third part of the document addresses the challenges associated with record-keeping, particularly in the context of digital information. It discusses the risks of data loss, corruption, and unauthorized access, and offers strategies to mitigate these risks. This includes the use of secure storage solutions, regular backups, and access controls to protect sensitive information.

4. The fourth part of the document focuses on the role of record-keeping in legal proceedings. It explains how well-maintained records can serve as crucial evidence in court cases, helping to establish facts and support legal arguments. It also discusses the importance of preserving records in their original form or as certified copies to ensure their admissibility in court.

5. The fifth part of the document provides a summary of the key points discussed and offers final thoughts on the importance of record-keeping. It reiterates that maintaining accurate records is not just a legal obligation but also a best practice for any individual or organization seeking to operate with integrity and transparency. The document concludes by encouraging readers to take the necessary steps to ensure their records are up-to-date and well-organized.

SCOPE OF WORK  
ON  
THE FEASIBILITY STUDY OF  
THE RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT  
IN  
THE SOCIALIST REPUBLIC OF THE UNION OF BURMA

AGREED

BETWEEN

JAPAN INTERNATIONAL COOPERATION AGENCY

AND

MINISTRY OF TRANSPORT AND COMMUNICATION

## I. INTRODUCTION

In response to the request of the Government of the Socialist Republic of the Union of Burma, the Government of Japan in accordance with its laws and Regulations has decided to conduct a feasibility study of the Rangoon International Airport Development Project. The Japan International Cooperation Agency (hereinafter referred to as JICA) is the official agency responsible for the implementation of technical cooperation programs of the Government of Japan. It will carry out the study in close cooperation with the authorities concerned of the Government of the Socialist Republic of the Union of Burma.

## II. OBJECTIVE OF THE STUDY

The objective of this study is to examine the technical and economic feasibility of the Rangoon International Airport Development Project in Rangoon so as to contribute to optimum planning of the Project.

## III. OUTLINE OF THE STUDY

This feasibility study will consist of the following:

- 1) Collection of relevant data
- 2) Study and evaluation on the existing facilities
- 3) Air transport demand forecasts
- 4) Facility requirement analysis
- 5) Airport layout plan
- 6) Facility planning
- 7) Air navigation aids planning
- 8) Construction schedule and cost estimate
- 9) Economic analysis
- 10) Financial analysis
- 11) Social and other aspects

IV. REPORTS

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

- |    |                    |           |
|----|--------------------|-----------|
| 1) | Inception Report   | 20 copies |
| 2) | Progress Report    | 20 copies |
| 3) | Draft Final Report | 30 copies |
| 4) | Final Report       | 50 copies |

V. UNDERTAKING OF THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF THE UNION OF BURMA

- 1) To provide the study team with all available data and information necessary for the proper execution of the study,
- 2) To ensure that such documents are allowed to be taken out of the country.
- 3) To exempt from the taxes and duties on the materials, equipments and personal effects of the study team on entry into and departure out of Burma.
- 4) To assign the counterpart officials for the study team.
- 5) To provide suitable office spaces for the team.
- 6) To provide the study team with the necessary means and available equipments for their activities in the country, such as vehicles etc.

VI. TIME SCHEDULE

JICA will conduct the study on the following time schedule. This time schedule is subject to change according to circumstances.

|                                   | '79<br>SEPT | OCT | NOV | DEC | '80<br>JAN | FEB | MAR |
|-----------------------------------|-------------|-----|-----|-----|------------|-----|-----|
| Execution Study                   | —————       |     |     |     |            |     |     |
| Submission of<br>Inception Report |             | ⊙   |     |     |            |     |     |
| Progress Report                   |             |     | ⊙   |     |            |     |     |
| Draft Final Report                |             |     |     |     | ⊙          |     |     |
| Final Report                      |             |     |     |     |            |     | ⊙   |

Notes: ————— indicates Home work in Japan

————— indicates Field work in Burma

⊙ indicates the submission of Report

APPENDIX 2A

ECONOMIC AND TRANSPORT DATA

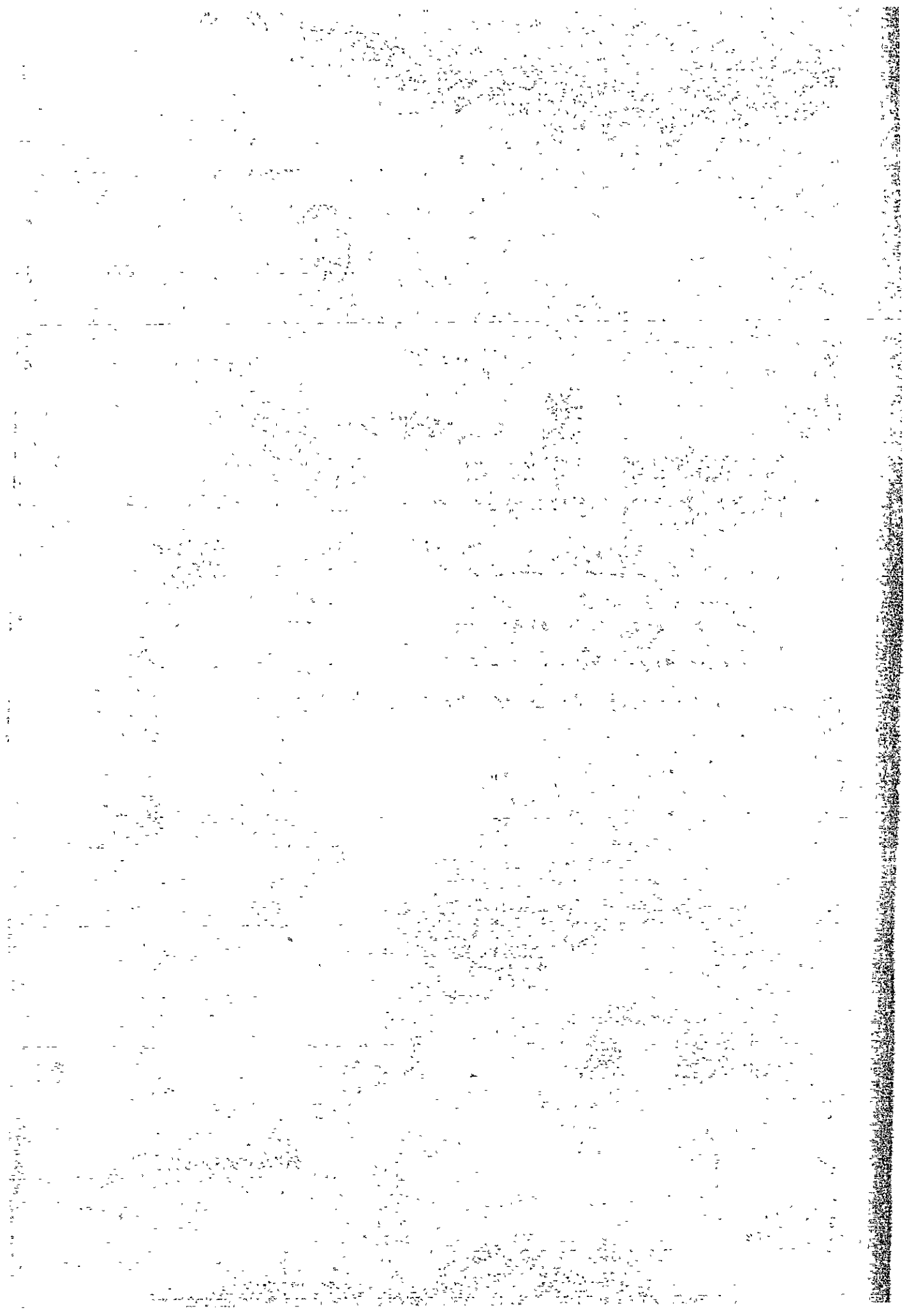




Table 2A-1 ESTIMATES ON POPULATION GROWTH  
(1960/61 to 1978/79)

| Year    | Total Population (Thousand)  |                                 | Annual<br>Growth<br>Rate |
|---------|------------------------------|---------------------------------|--------------------------|
|         | Mid Fiscal<br>Year<br>(past) | Mid Fiscal<br>Year<br>(current) |                          |
| 1960/61 | 22200                        |                                 |                          |
| 1961/62 | 22688                        |                                 | 2.20                     |
| 1962/63 | 23187                        |                                 | 2.20                     |
| 1963/64 | 23697                        |                                 | 2.20                     |
| 1964/65 | 24218                        |                                 | 2.20                     |
| 1965/66 | 24751                        |                                 | 2.20                     |
| 1966/67 | 25303                        |                                 | 2.23                     |
| 1967/68 | 25867                        |                                 | 2.23                     |
| 1968/69 | 26444                        |                                 | 2.23                     |
| 1969/70 | 27034                        |                                 | 2.23                     |
| 1970/71 | 27637                        |                                 | 2.23                     |
| 1971/72 | 28262                        |                                 | 2.26                     |
| 1972/73 | 28886                        |                                 | 2.21                     |
| 1973/74 | 29521                        |                                 | 2.20                     |
| 1974/75 | 30170                        | 29846                           | 2.20                     |
| 1975/76 | 30834                        | 30502                           | 2.20                     |
| 1976/77 | 31512                        | 31173                           | 2.20                     |
| 1977/78 | 32206                        | 31859                           | 2.20                     |
| 1978/79 |                              | 32573                           | 2.24                     |

Source: Report to the Pyithu Hluttaw, 1979/80

Note : Past fiscal year --- October to end of September  
Current fiscal year --- April to end of March

Table 2A-2 COMPOSITION OF ESTIMATED ACTIVE LABOUR  
FORCE OF WORKERS AND PEASANTS ENGAGED  
IN THE VARIOUS SECTORS DURING 1978/79

(In thousand)

| Sector                       | State<br>Sector | Co-operative<br>and<br>Private Sectors | Total        |
|------------------------------|-----------------|--|--------------|
| Agriculture                  | 66              | 8294                                   | 8360         |
| Livestock and Fishery        | 9               | 162                                    | 171          |
| Forestry                     | 85              | 81                                     | 166          |
| Mining                       | 66              | 2                                      | 68           |
| Processing and Manufacturing | 169             | 799                                    | 968          |
| Power                        | 15              |  | 15           |
| Construction                 | 127             | 62                                     | 189          |
| Transport and Communications | 107             | 323                                    | 430          |
| Social Services              | 188             | 74                                     | 262          |
| Administration               | 474             | 24                                     | 498          |
| Trade                        | 57              | 1182                                   | 1239         |
| Workers n.e.s.               |                 | 569                                    | 569          |
| <b>Total</b>                 | <b>1363</b>     | <b>11572</b>                           | <b>12935</b> |

Source: ditto

Table 2A-3 GROSS DOMESTIC PRODUCT  
(AT 1969/70 CONSTANT  
PRODUCER'S PRICES)

| Year    | Gross Domestic Product<br>(in lakhs Kyat) |
|---------|---|
| 1961/62 | 77976                                     |
| 1967/68 | 91999                                     |
| 1968/69 | 95028                                     |
| 1969/70 | 99757                                     |
| 1970/71 | 103881                                    |
| 1971/72 | 106407                                    |
| 1972/73 | 105377                                    |
| 1973/74 | 108117                                    |
| 1974/75 | 111011                                    |
| 1975/76 | 115617                                    |
| 1976/77 | 122653                                    |
| 1977/78 | 129995                                    |
| 1978/79 | 138701                                    |

Source: ditto

Table 2A-4 INTERNAL AND EXTERNAL TRANSPORTATION OF PASSENGERS AND FREIGHT BY MEANS OF STATE-OWNED CONVEYANCES

| Year           | Rail       |         | Road       |         | Inland Water |         | Overseas Coastal |         | Internal Flight |         | External Flight |         | Total      |         |
|----------------|------------|---------|------------|---------|--------------|---------|------------------|---------|-----------------|---------|-----------------|---------|------------|---------|
|                | Pas-senger | Freight | Pas-senger | Freight | Pas-senger   | Freight | Pas-senger       | Freight | Pas-senger      | Freight | Pas-senger      | Freight | Pas-senger | Freight |
| 1961/62        | 43078      | 2938    | -          | -       | 5260         | 1283    | 13               | 527     | 133             | 2.9     | 34              | 0.3     | 48518      | 4751.2  |
| 1967/68        | 55174      | 2790    | 164084     | 2292    | 10979        | 1848    | 21               | 331     | 277             | 6.2     | 20              | 0.3     | 232529     | 7267.5  |
| 1968/69        | 54555      | 2940    | 201613     | 2245    | 10324        | 1802    | 26               | 638     | 313             | 6.5     | 23              | 0.3     | 271160     | 7631.8  |
| 1969/70        | 52266      | 2685    | 241044     | 2116    | 10594        | 1762    | 15               | 721     | 334             | 6.7     | 45              | 0.5     | 308961     | 7291.2  |
| 1970/71        | 53586      | 2819    | 226501     | 2000    | 10716        | 2016    | 18               | 906     | 368             | 7.2     | 40              | 0.8     | 296407     | 7749.0  |
| 1971/72        | 53389      | 2925    | 302291     | 1844    | 9834         | 2162    | 29               | 834     | 399             | 6.5     | 50              | 0.9     | 374513     | 7772.4  |
| 1972/73        | 55060      | 2486    | 207892     | 1568    | 9650         | 1888    | 27               | 671     | 409             | 5.9     | 55              | 1.0     | 284293     | 6619.9  |
| 1973/74        | 48570      | 1494    | 173869     | 1204    | 9140         | 1679    | 23               | 434     | 404             | 3.7     | 54              | 1.1     | 242527     | 4815.8  |
| 1974/75        | 51036      | 1560    | 146682     | 1088    | 9402         | 1698    | 26               | 533     | 371             | 3.5     | 51              | 1.0     | 217828     | 4883.5  |
| 1975/76        | 49055      | 1620    | 150959     | 1124    | 11153        | 1746    | 22               | 469     | 399             | 3.9     | 43              | 0.6     | 224644     | 4963.5  |
| 1976/77        | 32053      | 1675    | 180721     | 1042    | 11961        | 912     | 24               | 516     | 409             | 4.4     | 43              | 0.5     | 236310     | 4149.9  |
| 1977/78        | 34469      | 1831    | 199003     | 1006    | 11691        | 1037    | 22               | 555     | 536             | 5.0     | 46              | 0.4     | 256867     | 4434.4  |
| 1978/79        | 44455      | 1973    | 173312     | 1006    | 12393        | 1061    | 23               | 631     | 685             | 7.1     | 43              | 1.2     | 241711     | 4679.3  |
| (%)<br>1978/79 | 18.39      | 42.16   | 71.70      | 21.50   | 5.13         | 22.67   | 0.01             | 13.48   | 0.28            | 0.15    | 0.2             | 0.13    | 100.0      | 100.0   |

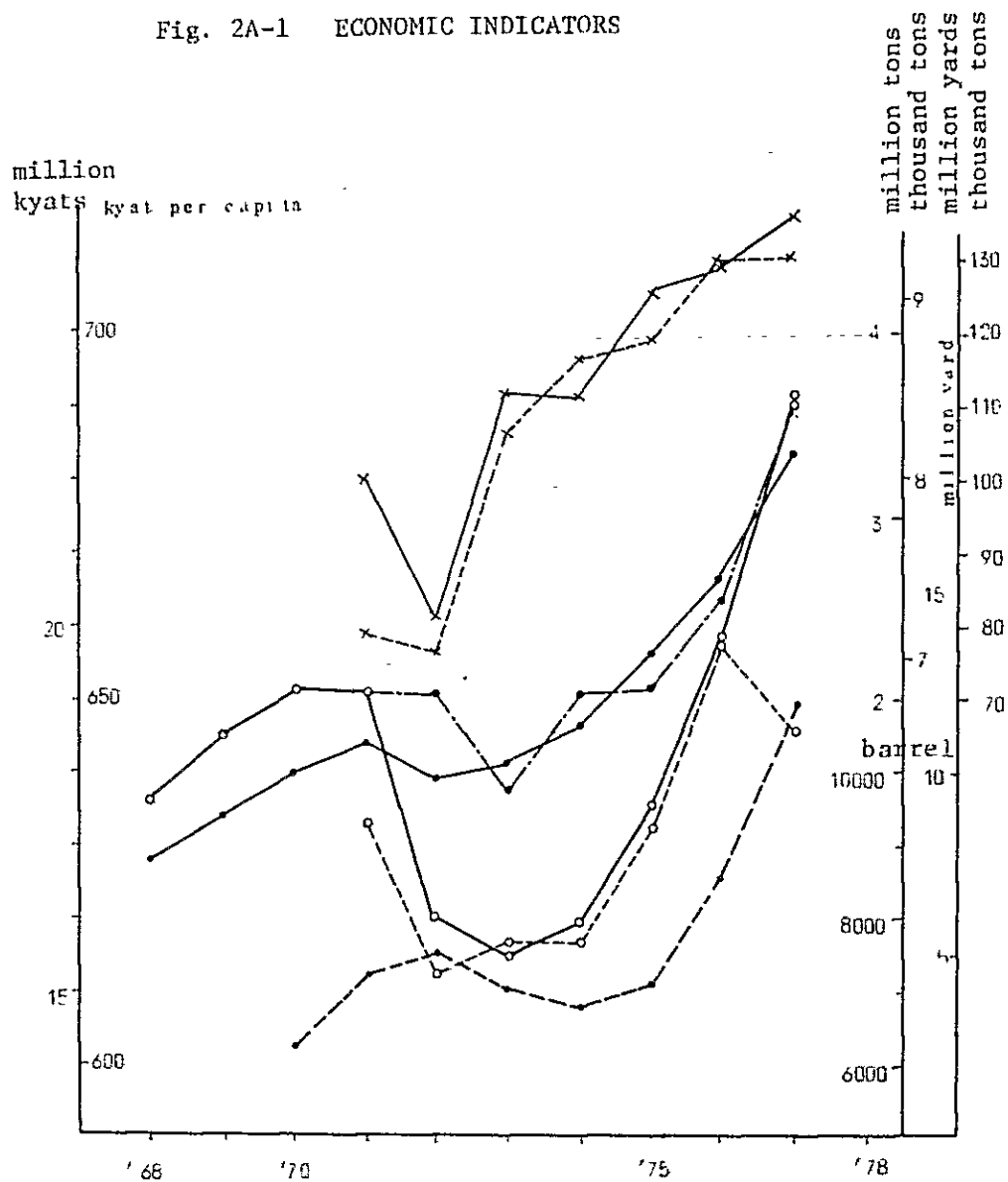
Source: Report to the Pyithu Hluttaw, 1979/80

Table 2A-5 CHANGES IN STATE CURRENT EXPENDITURE

| Sector                       | 1962/63 | 1976/77 | 1977/78 | 1978/79 |
|------------------------------|---------|---------|---------|---------|
|                              | %       | %       | %       | %       |
| Agriculture                  | 2.3     | 4.3     | 4.5     | 4.8     |
| Livestock & Fishery          | -       | 0.6     | 0.9     | 1.2     |
| Forestry                     | 6.5     | 3.2     | 3.7     | 3.9     |
| Mining                       | 4.1     | 3.1     | 3.2     | 3.3     |
| Processing and Manufacturing | 7.0     | 30.0    | 30.5    | 31.1    |
| Power                        | 2.0     | 0.7     | 0.7     | 0.8     |
| Construction                 | 1.2     | 3.4     | 3.8     | 3.9     |
| Transport & Communications   | 7.3     | 5.6     | 5.0     | 5.8     |
| Trade                        | 44.6    | 26.6    | 26.3    | 23.5    |
| Social Services              | 6.2     | 6.8     | 5.9     | 6.2     |
| Financial Institutions       | 0.9     | 2.2     | 2.2     | 2.6     |
| Administrative Organizations | 17.9    | 12.8    | 12.1    | 12.1    |
| Others                       | -       | 0.7     | 1.2     | 0.8     |
| Total                        | 100.0   | 100.0   | 100.0   | 100.0   |
| Million Kyat                 | (34.1)  | (127.8) | (161.8) | (176.0) |

Source: Report to the Pyithu Hluttaw, 1979/80

Fig. 2A-1 ECONOMIC INDICATORS



- GDP
- GDP per capita
- x— Rice (unhalted)
- Crude Oil
- Cotton Fabrics
- Cement
- x— Chemical Fertilizer

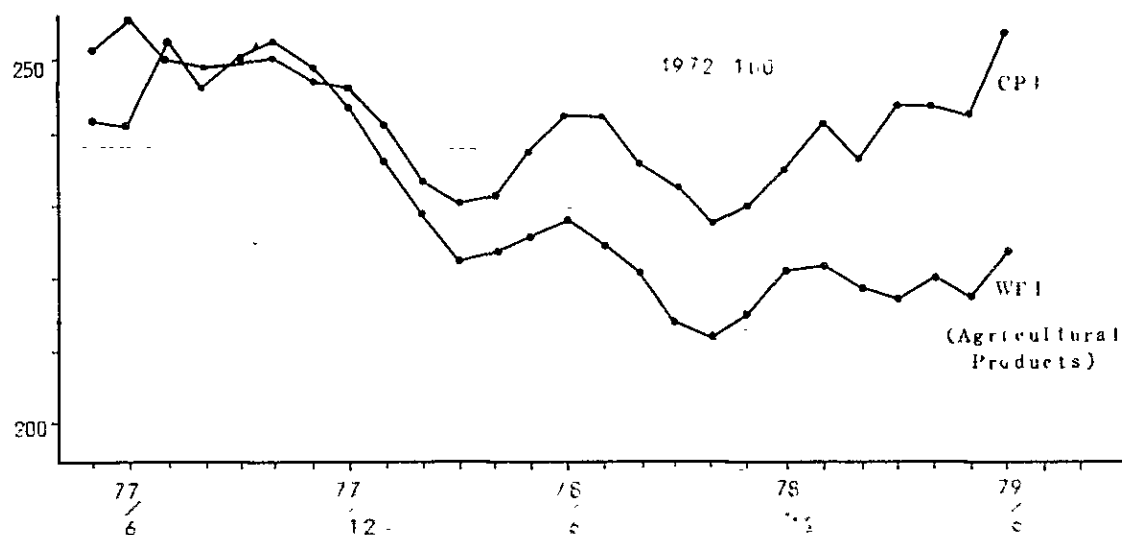
GDP Target/Accomplishment

|     |      |      |
|-----|------|------|
| '74 | 6.3% | 2.7% |
| '75 | 6.4  | 4.1  |
| '76 | 6.9  | 5.9  |
| '77 | 6.6  | 6.4  |

(The 3rd Four-Year Plan, Target 6.6%)

Source : Report to the Pyithu Hluttaw, 1979/80

Fig. 2A-2 PRICE



Source: SELECTED MONTHLY ECONOMIC INDICATORS MAY, JUNE 1979.

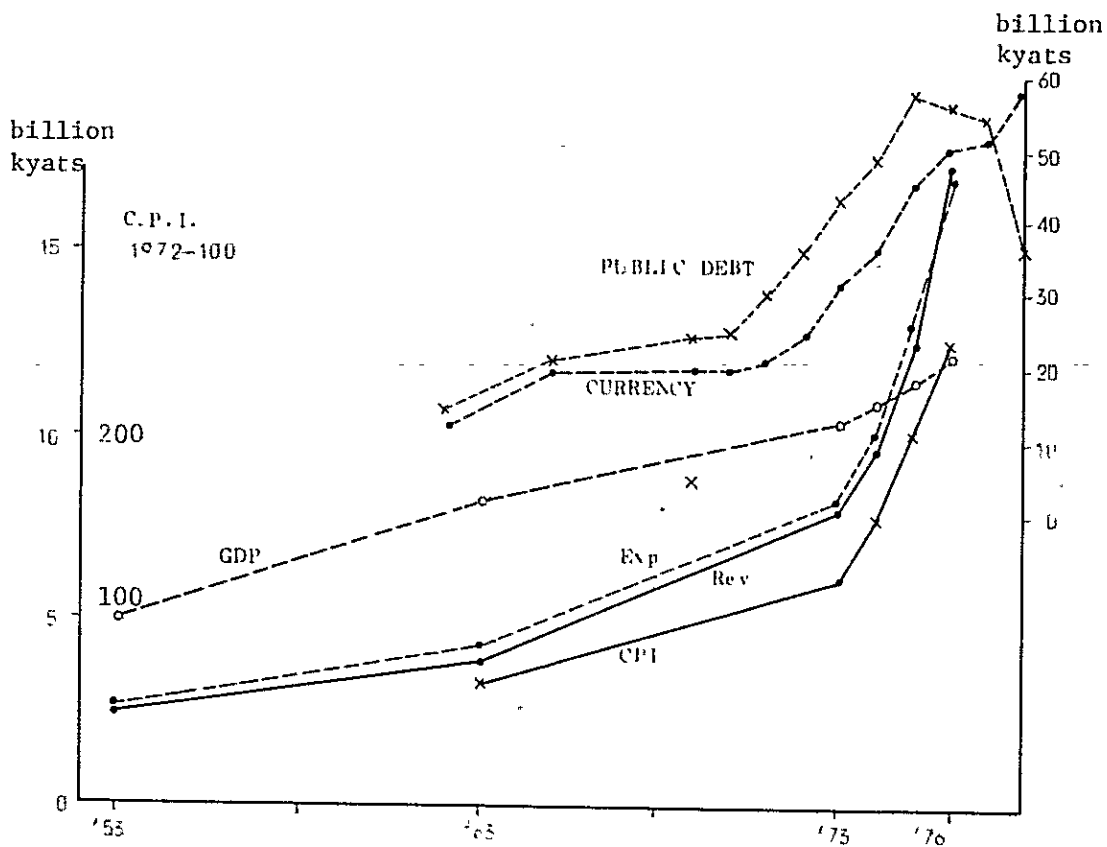
Note Purchase Price of Paddy (Ngasein Group, Ordinary):  $\frac{1974/79}{1972/73} = \frac{900}{425} = 2.118$

As of June '79:-

|                      | K/viss        | K/Kg. |
|----------------------|---------------|-------|
| Fresh fish (Ngamyin) | 40.70 (35.28) | 24.97 |
| " (Pazunkyaaint)     | 16.50 ( 9.54) | 10.12 |
| Chicken              | 24.20 (23.73) | 14.85 |
| Duck Egg             | 6.60 ( 5.33)  | 4.05  |
| Sesamum Oil          | 24.21 (15.13) | 14.85 |
| Chillies (short)     | 43.21 (10.76) | 26.51 |
| Potatoes (big)       | 3.30 ( 3.02)  | 2.02  |
| Tomatoes             | 5.00 ( 1.89)  | 3.07  |
| Banana               | 2.80 ( 1.50)  | 1.72  |
| Fresh Milk           | 6.00 ( 5.62)  | 3.68  |

Figures in ( ) present the lowest price during '77/May - '79/June.

Fig. 2A-3 BUDGET AND FINANCE

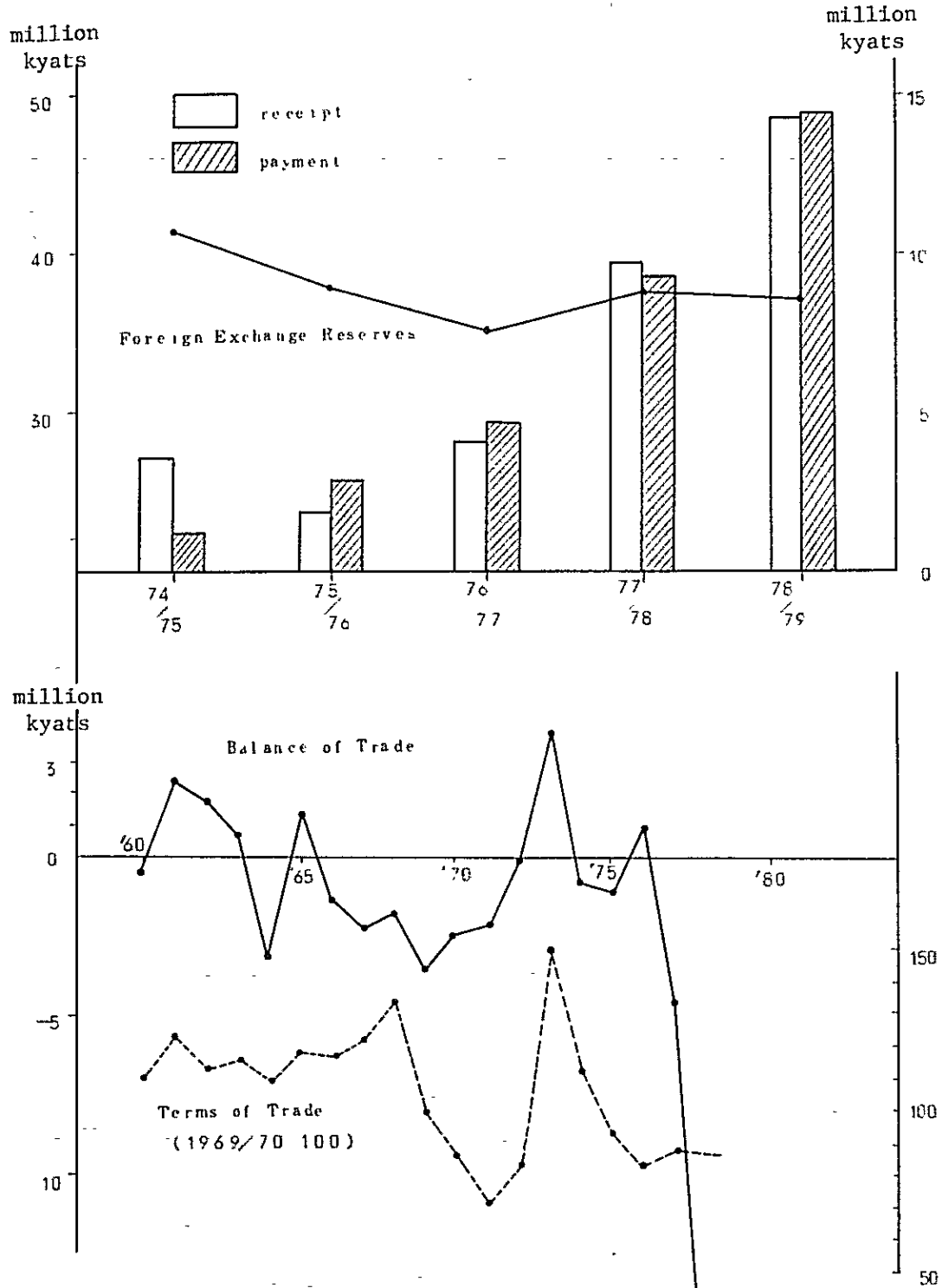


GDP, at 1969/70 price, Internal Public Debt  
 Currency in Circulation ) 30th/Sept.

Source: Statistical Abstract (1976)

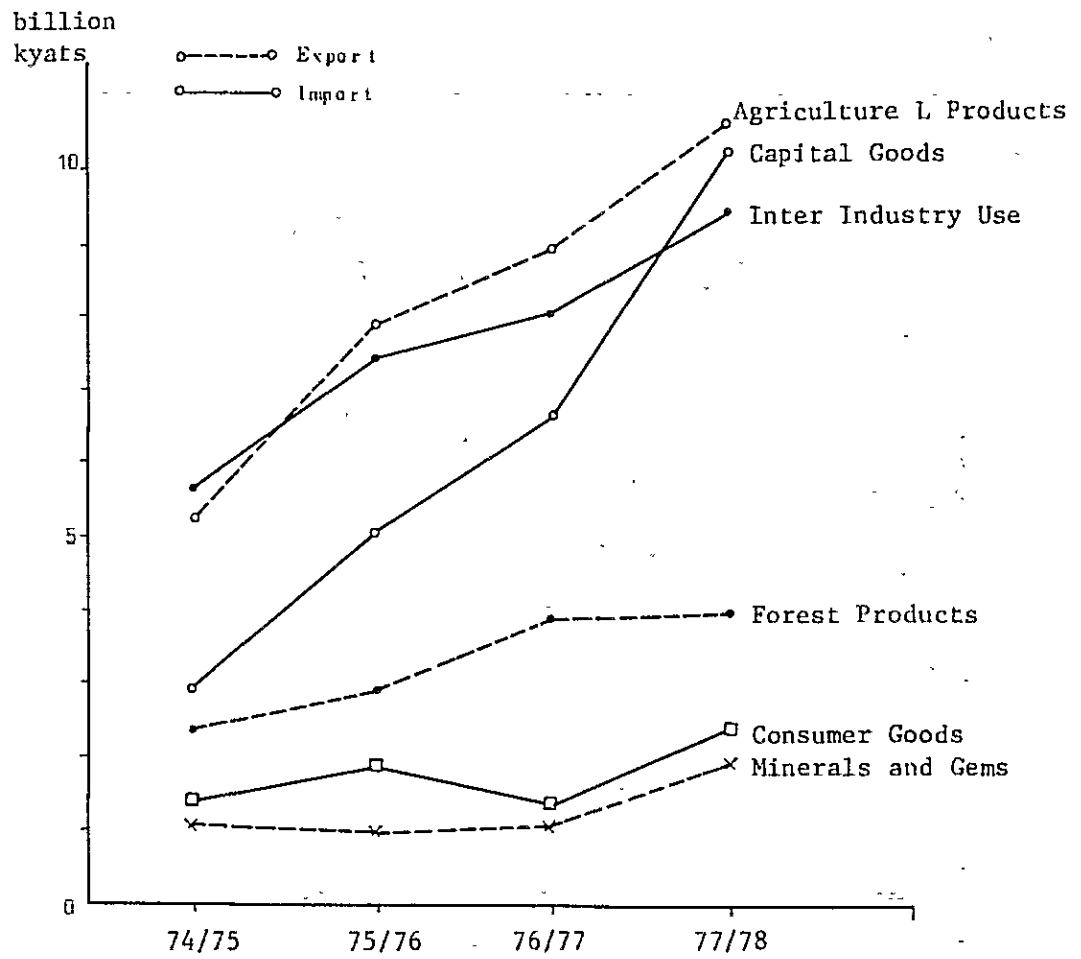


Fig. 2A-4 BALANCE PAYMENT



Source : Report to the Pyithu Hluttaw, 1979/80.

Fig. 2A-5 FOREIGN TRADE



Source : Report to the Pyithu Hluttaw, (1979/80)

APPENDIX 3A

AIR TRAFFIC FORECAST DATA

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection practices and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and processing, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that the data remains reliable and secure.

5. The fifth part of the document discusses the importance of data governance and the role of various stakeholders in ensuring that data is used ethically and in compliance with relevant regulations.

6. The sixth part of the document provides a detailed overview of the data lifecycle, from data collection to data archiving and deletion. It emphasizes the need for clear policies and procedures to govern each stage of the data lifecycle.

7. The seventh part of the document discusses the role of data in decision-making and the importance of providing timely and accurate information to management. It highlights how data-driven insights can lead to better strategic decisions and improved organizational performance.

8. The eighth part of the document discusses the future of data management and the impact of emerging technologies like artificial intelligence and machine learning. It suggests ways in which these technologies can be leveraged to enhance data analysis and decision-making capabilities.

9. The ninth part of the document provides a summary of the key points discussed and offers recommendations for implementing a robust data management strategy. It stresses the need for a holistic approach that considers all aspects of data management, from collection to governance.

10. The tenth part of the document concludes with a call to action, encouraging the organization to embrace a data-driven culture and to continuously monitor and improve its data management practices.

Table 3A-1 PROJECTED INTERNATIONAL AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 1985 (CASE 1)

| Route           | Number of Passengers [1000] | Aircraft Movements |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
|-----------------|-----------------------------|--------------------|---------|--------|----------------|---------|--------|----------------|---------|--------|----------------|---------|--------|---------------|---------|--------|---|
|                 |                             | 360-Seater Jet     |         |        | 250-Seater Jet |         |        | 170-Seater Jet |         |        | 120-Seater Jet |         |        | 60-Seater Jet |         |        |   |
|                 |                             | Annual             | Monthly | Weekly | Annual         | Monthly | Weekly | Annual         | Monthly | Weekly | Annual         | Monthly | Weekly | Annual        | Monthly | Weekly |   |
| RANGOON-ROME    |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
| " -ATHENS       |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
| " -BAGDAHD      |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
| " -TEHRAN       |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
| " -KARACHI      | 20                          | 50                 | 5       | 2      | 48             | 5       | 2      |                |         |        |                |         |        |               | 110     | 11     | 3 |
| " -DACCA        | 4                           |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
| " -BOMBAY       | 18                          | 47                 | 5       | 2      | 45             | 5       | 2      |                |         |        |                |         |        |               |         |        |   |
| " -CALCUTTA     | 13                          |                    |         |        |                |         |        | 113            | 11      | 3      |                |         |        |               |         |        |   |
| " -DELHI        | 21                          | 54                 | 6       | 2      | 52             | 6       | 2      |                |         |        |                |         |        |               |         |        |   |
| " -BANGKOK      | 14                          |                    |         |        |                |         |        | 129            | 13      | 4      |                |         |        |               |         |        |   |
| " -SINGAPORE    | 25                          | 63                 | 7       | 2      | 61             | 7       | 2      |                |         |        |                |         |        |               |         |        |   |
| " -KUALA LUMPUR |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
| " -JAKARTA      |                             |                    |         |        |                |         |        |                |         |        |                |         | 103    | 10            | 3       |        |   |
| " -KUNMING      | 8                           |                    |         |        |                |         |        |                |         |        |                |         | 99     | 10            | 3       |        |   |
| " -VIENTIANE    | 8                           |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
| " -HONG KONG    | 24                          | 63                 | 7       | 2      | 60             | 6       | 2      |                |         |        |                |         |        |               |         |        |   |
| " -MANILA       | 8                           |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |   |
| " -TOKYO        | 20                          | 86                 | 9       | 3      |                |         |        |                |         |        |                |         | 107    | 11            | 3       |        |   |
| Sub Total       | 183                         | 363                | 39      | 13     | 266            | 29      | 10     | 242            | 24      | 7      | 309            | 31      | 9      | 110           | 11      | 3      |   |
| Non-Scheduled   | 10                          |                    |         |        | 32             | 5       | 2      | 31             | 5       | 2      |                |         |        |               |         |        |   |
| TOTAL           | 193                         | 363                | 39      | 13     | 298            | 34      | 12     | 273            | 29      | 9      | 309            | 31      | 9      | 110           | 11      | 3      |   |

Table 3A-2 PROJECTED INTERNATIONAL AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 1990 (CASE 1)

| Route           | Number of Passengers [1000] | Aircraft Movements |         |                |         |                |         |                |         |               |         |        |    |     |    |
|-----------------|-----------------------------|--------------------|---------|----------------|---------|----------------|---------|----------------|---------|---------------|---------|--------|----|-----|----|
|                 |                             | 360-Seater Jet     |         | 250-Seater Jet |         | 170-Seater Jet |         | 120-Seater Jet |         | 60-Seater Jet |         |        |    |     |    |
|                 |                             | Annual             | Monthly | Weekly         | Monthly | Weekly         | Monthly | Weekly         | Monthly | Weekly        | Monthly | Weekly |    |     |    |
| RANGOON-ROME    |                             |                    |         |                |         |                |         |                |         |               |         |        |    |     |    |
| " -ATHENS       |                             |                    |         |                |         |                |         |                |         |               |         |        |    |     |    |
| " -BAGDAHD      |                             |                    |         |                |         |                |         |                |         |               |         |        |    |     |    |
| " -TEHRAN       |                             |                    |         |                |         |                |         |                |         |               |         |        |    |     |    |
| " -KARACHI      | 41                          | 107                | 11      | 3              | 103     | 11             | 3       |                |         |               |         |        |    | 216 | 22 |
| " -DACCA        | 9                           |                    |         |                |         |                |         |                |         |               |         |        |    |     | 6  |
| " -BOMBAY       | 39                          | 100                | 10      | 3              | 96      | 10             | 3       |                |         |               |         |        |    |     |    |
| " -CALCUTTA     | 27                          |                    |         |                |         |                |         | 245            | 25      | 7             |         |        |    |     |    |
| " -DELHI        | 45                          | 116                | 12      | 3              | 112     | 12             | 3       |                |         |               |         |        |    |     |    |
| " -BANGKOK      | 30                          |                    |         |                |         |                |         | 110            | 11      | 3             |         |        |    |     |    |
| " -SINGAPORE    | 61                          | 169                | 17      | 5              | 131     | 14             | 4       |                |         |               |         |        |    |     |    |
| " -KUALA LUMPUR |                             |                    |         |                |         |                |         |                |         |               |         |        |    |     |    |
| " -JAKALTA      |                             |                    |         |                |         |                |         |                |         |               |         |        |    |     |    |
| " -KUNNING      | 13                          |                    |         |                |         |                |         |                |         |               | 164     | 17     | 5  |     |    |
| " -VIENTIANE    | 12                          |                    |         |                |         |                |         |                |         |               | 149     | 15     | 4  |     |    |
| " -HONG KONG    | 58                          | 162                | 17      | 5              | 125     | 13             | 4       |                |         |               |         |        |    |     |    |
| " -MINILA       | 19                          |                    |         |                |         |                |         | 104            | 11      | 3             | 98      | 10     | 3  |     |    |
| " -TOKYO        | 40                          | 169                | 17      | 5              |         |                |         |                |         |               |         |        |    |     |    |
| Sub Total       | 394                         | 823                | 84      | 24             | 679     | 72             | 20      | 459            | 47      | 13            | 411     | 42     | 12 | 216 | 22 |
| Non-Scheduled   | 19                          |                    |         |                | 66      | 7              | 2       | 65             | 7       | 2             |         |        |    |     |    |
| TOTAL           | 413                         | 823                | 84      | 24             | 745     | 79             | 22      | 524            | 54      | 15            | 411     | 42     | 12 | 216 | 22 |
|                 |                             |                    |         |                |         |                |         |                |         |               |         |        |    |     | 6  |



Table 3A-4 PROJECTED INTERNATIONAL AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 2000 (CASE 1)

| Route           | Number of Passengers [1000] | Aircraft Movements |         |                |        |                |        |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|-----------------------------|--------------------|---------|----------------|--------|----------------|--------|----------------|---------|---------------|--------|---------|--------|--|--|--|--|--|--|--|--|--|--|--|
|                 |                             | 360-Seater Jet     |         | 250-Seater Jet |        | 170-Seater Jet |        | 120-Seater Jet |         | 60-Seater Jet |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
|                 |                             | Annual             | Monthly | Weekly         | Annual | Monthly        | Weekly | Annual         | Monthly | Weekly        | Annual | Monthly | Weekly |  |  |  |  |  |  |  |  |  |  |  |
| RANGOON-ROME    |                             |                    |         |                |        |                |        |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -ATHENS       |                             |                    |         |                |        |                |        |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -BAGDAHD      | 35                          | 150                | 15      | 4              |        |                |        |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -TEHRAN       | 44                          | 189                | 19      | 5              |        |                |        |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -KARACHI      | 87                          | 242                | 25      | 7              | 188    | 19             | 5      |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -DACCA        | 25                          |                    |         |                |        |                |        | 136            | 14      | 4             | 128    | 13      | 4      |  |  |  |  |  |  |  |  |  |  |  |
| " -BOMBAY       | 79                          | 220                | 22      | 6              | 170    | 17             | 5      |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -CALCUTTA     | 59                          | 152                | 16      | 4              | 145    | 15             | 4      |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -DELHI        | 92                          | 257                | 26      | 7              | 200    | 20             | 5      |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -BANGKOK      | 88                          | 244                | 25      | 7              | 190    | 19             | 5      |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -SINGAPORE    | 167                         | 465                | 47      | 12             | 361    | 37             | 10     |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -KUALA LUMPUR | 23                          |                    |         |                |        |                |        | 122            | 13      | 4             | 101    | 11      | 3      |  |  |  |  |  |  |  |  |  |  |  |
| " -JAKARTA      | 13                          |                    |         |                |        |                |        | 67             | 7       | 2             | 64     | 7       | 2      |  |  |  |  |  |  |  |  |  |  |  |
| " -RUNNING      | 33                          |                    |         |                |        |                |        | 104            | 11      | 3             | 133    | 14      | 4      |  |  |  |  |  |  |  |  |  |  |  |
| " -VIETIANE     | 26                          |                    |         |                |        |                |        | 235            | 24      | 6             | 133    | 14      | 4      |  |  |  |  |  |  |  |  |  |  |  |
| " -HONG KONG    | 166                         | 460                | 46      | 12             | 357    | 36             | 9      |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -MANILA       | 56                          | 156                | 16      | 4              | 121    | 13             | 4      |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| " -TOKYO        | 116                         | 495                | 50      | 13             |        |                |        |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| Sub Total       | 1109                        | 3030               | 271     | 81             | 1863   | 190            | 51     | 664            | 69      | 19            | 426    | 45      | 13     |  |  |  |  |  |  |  |  |  |  |  |
| Non-Scheduled   | 59                          | 133                | 14      | 4              | 127    | 13             | 4      |                |         |               |        |         |        |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL           | 1168                        | 3163               | 291     | 85             | 1990   | 203            | 55     | 664            | 69      | 19            | 426    | 45      | 13     |  |  |  |  |  |  |  |  |  |  |  |



Table 3A-5 PROJECTED INTERNATIONAL AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 2005 (CASE 1)

| Route           | Number of Passengers [1000] | Aircraft Movements |         |        |                |         |        |                |         |        |                |         |        |               |         |        |  |
|-----------------|-----------------------------|--------------------|---------|--------|----------------|---------|--------|----------------|---------|--------|----------------|---------|--------|---------------|---------|--------|--|
|                 |                             | 360-Seater Jet     |         |        | 250-Seater Jet |         |        | 170-Seater Jet |         |        | 120-Seater Jet |         |        | 60-Seater Jet |         |        |  |
|                 |                             | Annual             | Monthly | Weekly | Annual         | Monthly | Weekly | Annual         | Monthly | Weekly | Annual         | Monthly | Weekly | Annual        | Monthly | Weekly |  |
| RANGOON-ROME    |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |  |
| " -ATHENS       |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |  |
| " -BAGDAHD      | 51                          | 218                | 22      | 6      |                |         |        |                |         |        |                |         |        |               |         |        |  |
| " -TEHRAN       | 61                          | 261                | 27      | 7      |                |         |        |                |         |        |                |         |        |               |         |        |  |
| " -KARACHI      | 129                         | 360                | 36      | 9      | 279            | 28      | 7      |                |         |        |                |         |        |               |         |        |  |
| " -DACCA        | 37                          |                    |         |        | 139            | 14      | 4      | 136            | 14      | 4      |                |         |        |               |         |        |  |
| " -BOMBAY       | 117                         | 326                | 33      | 9      | 253            | 26      | 7      |                |         |        |                |         |        |               |         |        |  |
| " -CALCUTTA     | 89                          | 249                | 25      | 7      | 193            | 20      | 5      |                |         |        |                |         |        |               |         |        |  |
| " -DELHI        | 145                         | 404                | 41      | 11     | 313            | 32      | 8      |                |         |        |                |         |        |               |         |        |  |
| " -BANGKOK      | 132                         | 367                | 37      | 10     | 285            | 29      | 8      |                |         |        |                |         |        |               |         |        |  |
| " -SINGAPORE    | 261                         | 725                | 73      | 19     | 563            | 57      | 15     |                |         |        |                |         |        |               |         |        |  |
| " -KUALA LUMPUR | 30                          |                    |         |        |                |         |        | 161            | 17      | 5      | 152            | 16      | 4      |               |         |        |  |
| " -JAKARTA      | 19                          |                    |         |        |                |         |        | 101            | 11      | 3      | 96             | 10      | 3      |               |         |        |  |
| " -KUNMING      | 52                          | 146                | 15      | 4      | 113            | 12      | 3      |                |         |        |                |         |        |               |         |        |  |
| " -VIENTIANE    | 39                          |                    |         |        | 144            | 15      | 4      | 142            | 15      | 4      |                |         |        |               |         |        |  |
| " -HONG KONG    | 251                         | 697                | 70      | 18     | 541            | 55      | 19     |                |         |        |                |         |        |               |         |        |  |
| " -MANILA       | 87                          | 241                | 25      | 7      | 187            | 19      | 5      |                |         |        |                |         |        |               |         |        |  |
| " -TOKYO        | 175                         | 746                | 75      | 19     |                |         |        |                |         |        |                |         |        |               |         |        |  |
| Sub Total       | 1675                        | 4740               | 419     | 126    | 3010           | 307     | 85     | 540            | 57      | 16     | 248            | 26      | 7      |               |         |        |  |
| Non-Scheduled   | 89                          | 199                | 29      | 8      | 191            | 28      | 7      |                |         |        |                |         |        |               |         |        |  |
| TOTAL           | 1764                        | 4939               | 508     | 134    | 3201           | 335     | 92     | 540            | 57      | 16     | 248            | 26      | 7      |               |         |        |  |



Table 3A-7 PROJECTED INTERNATIONAL AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 1990 (CASE 2)

| Route           | Number of Passengers [1000] | Aircraft Movements |         |        |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
|-----------------|-----------------------------|--------------------|---------|--------|----------------|---------|--------|----------------|---------|--------|----------------|---------|--------|---------------|---------|--------|----|---|
|                 |                             | 360-Seater Jet     |         |        | 250-Seater Jet |         |        | 170-Seater Jet |         |        | 120-Seater Jet |         |        | 60-Seater Jet |         |        |    |   |
|                 |                             | Annual             | Monthly | Weekly | Annual         | Monthly | Weekly | Annual         | Monthly | Weekly | Annual         | Monthly | Weekly | Annual        | Monthly | Weekly |    |   |
| RANGOON-ROME    |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
| " -ATHENS       |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
| " -BAGDAHD      |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
| " -TEHRAN       |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
| " -KARACHI      | 41                          | 107                | 11      | 3      | 103            | 11      | 3      |                |         |        |                |         |        |               |         |        |    |   |
| " -DACCRA       | 9                           |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
| " -BOMBAY       | 39                          | 100                | 10      | 3      | 96             | 10      | 3      |                |         |        |                |         |        |               |         | 216    | 22 | 6 |
| " -CALCUTTA     | 27                          |                    |         |        |                |         |        | 245            | 25      | 7      |                |         |        |               |         |        |    |   |
| " -DELHI        | 45                          | 116                | 12      | 3      | 112            | 12      | 3      |                |         |        |                |         |        |               |         |        |    |   |
| " -BANGKOK      | 30                          |                    |         |        |                |         |        | 110            | 11      | 3      |                |         |        |               |         |        |    |   |
| " -SINGAPORE    | 61                          | 169                | 17      | 5      | 131            | 14      | 4      |                |         |        |                |         |        |               |         |        |    |   |
| " -KUALA LUMPUR |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
| " -JAKARTA      |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
| " -KURMING      | 13                          |                    |         |        |                |         |        |                |         |        |                |         | 164    | 17            | 5       |        |    |   |
| " -VIENTIANE    | 12                          |                    |         |        |                |         |        |                |         |        |                |         | 149    | 15            | 4       |        |    |   |
| " -HONG KONG    | 58                          | 162                | 17      | 5      | 125            | 13      | 4      |                |         |        |                |         |        |               |         |        |    |   |
| " -MANILA       | 19                          |                    |         |        |                |         |        | 104            | 11      | 3      |                |         | 98     | 10            | 3       |        |    |   |
| " -TOKYO        | 40                          | 169                | 17      | 5      |                |         |        |                |         |        |                |         |        |               |         |        |    |   |
| Sub Total       | 394                         | 823                | 84      | 24     | 679            | 72      | 20     | 459            | 47      | 13     | 42             | 12      | 411    | 42            | 12      | 216    | 22 | 6 |
| Non-Scheduled   | 19                          |                    |         |        | 66             | 7       | 2      | 65             | 7       | 2      |                |         |        |               |         |        |    |   |
| TOTAL           | 413                         | 823                | 84      | 24     | 745            | 79      | 22     | 524            | 54      | 15     | 42             | 12      | 411    | 42            | 12      | 216    | 22 | 6 |

Table 3A-8 PROJECTED INTERNATIONAL AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 1995 (CASE 2)

| Route           | Number of Passengers [1000] | Aircraft Movements |         |        |                |         |        |                |         |        |                |         |        |               |         |        |
|-----------------|-----------------------------|--------------------|---------|--------|----------------|---------|--------|----------------|---------|--------|----------------|---------|--------|---------------|---------|--------|
|                 |                             | 360-Seater Jet     |         |        | 250-Seater Jet |         |        | 170-Seater Jet |         |        | 120-Seater Jet |         |        | 60-Seater Jet |         |        |
|                 |                             | Annual             | Monthly | Weekly | Annual         | Monthly | Weekly | Annual         | Monthly | Weekly | Annual         | Monthly | Weekly | Annual        | Monthly | Weekly |
| RANGOON-ROME    |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |
| " -ATHENS       | 22                          | 95                 | 10      | 3      |                |         |        |                |         |        |                |         |        |               |         |        |
| " -BAGDAHD      |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |
| " -TEHRAN       | 28                          | 120                | 12      | 3      |                |         |        |                |         |        |                |         |        |               |         |        |
| " -KARACHI      | 58                          | 161                | 17      | 5      | 125            | 13      | 4      |                |         |        |                |         |        |               |         |        |
| " -DAGCA        | 16                          |                    |         |        |                |         |        | 85             | 9       | 3      | 80             | 8       | 2      |               |         |        |
| " -BORBAY       | 53                          | 147                | 15      | 4      | 114            | 12      | 3      |                |         |        |                |         |        |               |         |        |
| " -CALCUTTA     | 36                          |                    |         |        | 135            | 14      | 4      | 132            | 14      | 4      |                |         |        |               |         |        |
| " -DELHI        | 63                          | 176                | 18      | 5      | 137            | 14      | 4      |                |         |        |                |         |        |               |         |        |
| " -BANGKOK      | 54                          | 150                | 15      | 4      | 117            | 12      | 3      |                |         |        |                |         |        |               |         |        |
| " -SINGAPORE    | 110                         | 305                | 31      | 8      | 237            | 24      | 6      |                |         |        |                |         |        |               |         |        |
| " -KUALA LUMPUR | 15                          |                    |         |        |                |         |        | 82             | 9       | 3      | 78             | 8       | 2      |               |         |        |
| " -JAKARTA      |                             |                    |         |        |                |         |        |                |         |        |                |         |        |               |         |        |
| " -KUNMING      | 21                          |                    |         |        |                |         |        | 112            | 12      | 3      | 106            | 11      | 3      |               |         |        |
| " -VIENTIANE    | 17                          |                    |         |        |                |         |        | 94             | 10      | 3      | 89             | 9       | 3      |               |         |        |
| " -HONG KONG    | 105                         | 293                | 30      | 8      | 227            | 23      | 6      |                |         |        |                |         |        |               |         |        |
| " -MANILA       | 35                          |                    |         |        | 131            | 14      | 4      | 128            | 13      | 4      |                |         |        |               |         |        |
| " -TOKYO        | 69                          | 295                | 30      | 8      |                |         |        |                |         |        |                |         |        |               |         |        |
| Sub Total       | 702                         | 1742               | 178     | 48     | 1223           | 126     | 34     | 633            | 67      | 20     | 353            | 36      | 10     |               |         |        |
| Non-Scheduled   | 36                          | 80                 | 12      | 3      | 77             | 11      | 3      |                |         |        |                |         |        |               |         |        |
| TOTAL           | 738                         | 1822               | 190     | 51     | 1300           | 137     | 37     | 633            | 67      | 20     | 353            | 36      | 10     |               |         |        |

Table 3A-9 PROJECTED INTERNATIONAL AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 2000 (CASE 2)

| Route           | Number of Passengers [1000] | Aircraft Movements |         |                |        |                |        |                |         |               |        |         |        |  |  |  |  |  |
|-----------------|-----------------------------|--------------------|---------|----------------|--------|----------------|--------|----------------|---------|---------------|--------|---------|--------|--|--|--|--|--|
|                 |                             | 360-Seater Jet     |         | 250-Seater Jet |        | 170-Seater Jet |        | 120-Seater Jet |         | 60-Seater Jet |        |         |        |  |  |  |  |  |
|                 |                             | Annual             | Monthly | Weekly         | Annual | Monthly        | Weekly | Annual         | Monthly | Weekly        | Annual | Monthly | Weekly |  |  |  |  |  |
| RANGOON-ROME    | 23                          | 97                 | 10      | 3              |        |                |        |                |         |               |        |         |        |  |  |  |  |  |
| " -ATHENS       | 25                          | 109                | 11      | 3              |        |                |        |                |         |               |        |         |        |  |  |  |  |  |
| " -BAGDAHD      | 23                          | 99                 | 10      | 3              |        |                |        |                |         |               |        |         |        |  |  |  |  |  |
| " -TEHRAN       | 32                          | 136                | 14      | 4              |        |                |        |                |         |               |        |         |        |  |  |  |  |  |
| " -KARACHI      | 87                          | 242                | 25      | 7              | 188    | 19             | 5      |                |         |               |        |         |        |  |  |  |  |  |
| " -DACCRA       | 25                          |                    |         |                | 136    | 14             | 4      | 128            | 13      | 4             |        |         |        |  |  |  |  |  |
| " -BOMBAY       | 79                          | 220                | 22      | 6              | 170    | 17             | 5      |                |         |               |        |         |        |  |  |  |  |  |
| " -CALCUTTA     | 59                          | 152                | 16      | 4              | 145    | 15             | 4      |                |         |               |        |         |        |  |  |  |  |  |
| " -DELHI        | 92                          | 257                | 26      | 7              | 200    | 20             | 5      |                |         |               |        |         |        |  |  |  |  |  |
| " -BANGKOK      | 88                          | 244                | 25      | 7              | 190    | 19             | 5      |                |         |               |        |         |        |  |  |  |  |  |
| " -SINGAPORE    | 167                         | 465                | 47      | 12             | 361    | 37             | 10     |                |         |               |        |         |        |  |  |  |  |  |
| " -KUALA LUMPUR | 23                          |                    |         |                | 122    | 13             | 4      | 101            | 11      | 3             |        |         |        |  |  |  |  |  |
| " -JAKARTA      | 13                          |                    |         |                | 67     | 7              | 2      | 64             | 7       | 2             |        |         |        |  |  |  |  |  |
| " -KURMING      | 33                          |                    |         |                | 104    | 11             | 3      | 133            | 14      | 4             |        |         |        |  |  |  |  |  |
| " -VIENTIANE    | 26                          |                    |         |                | 235    | 24             | 6      |                |         |               |        |         |        |  |  |  |  |  |
| " -HONG KONG    | 166                         | 460                | 46      | 12             | 357    | 36             | 9      |                |         |               |        |         |        |  |  |  |  |  |
| " -MANILA       | 56                          | 156                | 16      | 4              | 121    | 13             | 4      |                |         |               |        |         |        |  |  |  |  |  |
| " -TOKYO        | 116                         | 495                | 50      | 13             |        |                |        |                |         |               |        |         |        |  |  |  |  |  |
| Sub Total       | 1133                        | 3132               | 318     | 85             | 1863   | 190            | 51     | 664            | 69      | 19            | 426    | 45      | 13     |  |  |  |  |  |
| Non-Scheduled   | 59                          | 133                | 14      | 4              | 127    | 13             | 4      |                |         |               |        |         |        |  |  |  |  |  |
| TOTAL           | 1192                        | 3265               | 332     | 89             | 1990   | 203            | 55     | 664            | 69      | 19            | 426    | 45      | 13     |  |  |  |  |  |

Table 3A-10 PROJECTED INTERNATIONAL AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 2005 (CASE 2)

| Route           | Number of Passengers [1000] | Aircraft Movements |         |                |        |                |        |                |         |               |        |         |        |  |  |  |  |
|-----------------|-----------------------------|--------------------|---------|----------------|--------|----------------|--------|----------------|---------|---------------|--------|---------|--------|--|--|--|--|
|                 |                             | 360-Seater Jet     |         | 250-Seater Jet |        | 170-Seater Jet |        | 120-Seater Jet |         | 60-Seater Jet |        |         |        |  |  |  |  |
|                 |                             | Annual             | Monthly | Weekly         | Annual | Monthly        | Weekly | Annual         | Monthly | Weekly        | Annual | Monthly | Weekly |  |  |  |  |
| RANGOON-ROME    | 43                          | 183                | 19      | 5              |        |                |        |                |         |               |        |         |        |  |  |  |  |
| " -ATHENS       | 42                          | 182                | 19      | 5              |        |                |        |                |         |               |        |         |        |  |  |  |  |
| " -BAGDAHD      | 31                          | 134                | 14      | 4              |        |                |        |                |         |               |        |         |        |  |  |  |  |
| " -TEHRAN       | 41                          | 174                | 18      | 5              |        |                |        |                |         |               |        |         |        |  |  |  |  |
| " -KARACHI      | 129                         | 360                | 36      | 9              | 279    | 28             | 7      |                |         |               |        |         |        |  |  |  |  |
| " -DACCRA       | 37                          |                    |         |                | 139    | 14             | 4      | 136            | 14      | 4             |        |         |        |  |  |  |  |
| " -BOMBAY       | 117                         | 326                | 33      | 9              | 253    | 26             | 7      |                |         |               |        |         |        |  |  |  |  |
| " -CALCUTTA     | 89                          | 249                | 25      | 7              | 193    | 20             | 5      |                |         |               |        |         |        |  |  |  |  |
| " -DELHI        | 145                         | 404                | 41      | 11             | 313    | 32             | 8      |                |         |               |        |         |        |  |  |  |  |
| " -BANGKOK      | 132                         | 367                | 37      | 10             | 285    | 29             | 8      |                |         |               |        |         |        |  |  |  |  |
| " -SINGAPORE    | 261                         | 725                | 73      | 19             | 563    | 57             | 15     |                |         |               |        |         |        |  |  |  |  |
| " -KUALA LUMPUR | 30                          |                    |         |                |        |                |        | 161            | 17      | 5             | 152    | 16      | 4      |  |  |  |  |
| " -JAKARTA      | 19                          |                    |         |                |        |                |        | 101            | 11      | 3             | 96     | 10      | 3      |  |  |  |  |
| " -KUNNING      | 52                          | 146                | 15      | 4              | 113    | 12             | 3      |                |         |               |        |         |        |  |  |  |  |
| " -VIENTIANE    | 39                          |                    |         |                | 144    | 15             | 4      | 142            | 15      | 4             |        |         |        |  |  |  |  |
| " -HONG KONG    | 251                         | 697                | 70      | 18             | 541    | 55             | 19     |                |         |               |        |         |        |  |  |  |  |
| " -MANILA       | 87                          | 241                | 25      | 7              | 187    | 19             | 5      |                |         |               |        |         |        |  |  |  |  |
| " -TOKYO        | 175                         | 746                | 75      | 19             |        |                |        |                |         |               |        |         |        |  |  |  |  |
| Sub Total       | 1720                        | 4934               | 500     | 132            | 3010   | 307            | 85     | 540            | 57      | 16            | 248    | 26      | 7      |  |  |  |  |
| Non-Scheduled   | 89                          | 199                | 29      | 8              | 191    | 28             | 7      |                |         |               |        |         |        |  |  |  |  |
| TOTAL           | 1809                        | 5133               | 529     | 140            | 3201   | 335            | 92     | 540            | 57      | 16            | 248    | 26      | 7      |  |  |  |  |

Table 3A-11 PROJECTED DOMESTIC AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 1985

| Route         | Number of<br>Passengers<br>[1000] | Aircraft Movements |         |               |        |                   |       |                   |         |               |        |                   |       |   |  |          |
|---------------|-----------------------------------|--------------------|---------|---------------|--------|-------------------|-------|-------------------|---------|---------------|--------|-------------------|-------|---|--|----------|
|               |                                   | 120-Seater Jet     |         | 60-Seater Jet |        | 40-Seater Non-Jet |       | 20-Seater Non-Jet |         | 40-Seater Jet |        | 20-Seater Non-Jet |       |   |  |          |
|               |                                   | Annual             | Monthly | Daily         | Annual | Monthly           | Daily | Annual            | Monthly | Daily         | Annual | Monthly           | Daily |   |  |          |
| 300           | 64                                |                    | 1524    | 139           | 5      |                   |       |                   |         |               |        |                   |       |   |  |          |
| 400           | 78                                |                    | 1858    | 169           | 6      |                   |       |                   |         |               |        |                   |       |   |  |          |
| 500           | 12                                |                    |         |               |        |                   |       |                   |         |               |        | 858               | 78    | 3 |  |          |
| 600           | 87                                |                    | 2072    | 189           | 7      |                   |       |                   |         |               |        |                   |       |   |  |          |
| 700           | 94                                |                    | 2239    | 204           | 7      |                   |       |                   |         |               |        |                   |       |   |  |          |
| 800           | 62                                |                    | 1477    | 135           | 5      |                   |       |                   |         |               |        |                   |       |   |  |          |
| Sub Total     | 396                               |                    | 9170    | 836           | 30     |                   |       |                   |         |               |        | 858               | 78    | 3 |  |          |
| Non-Scheduled | 31                                |                    |         |               |        |                   |       |                   |         |               |        | 1550              | 155   | 6 |  |          |
| TOTAL         | 427                               |                    | 9170    | 836           | 30     |                   |       |                   |         |               |        | 1550              | 155   | 6 |  | 858 78 3 |

Table 3A-12 PROJECTED DOMESTIC AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 1990

| Route         | Number of<br>Passengers<br>[1000] | Aircraft Movements |         |               |        |                   |       |                   |         |       |  |      |     |   |
|---------------|-----------------------------------|--------------------|---------|---------------|--------|-------------------|-------|-------------------|---------|-------|--|------|-----|---|
|               |                                   | 120-Seater Jet     |         | 60-Seater Jet |        | 40-Seater Non-Jet |       | 20-Seater Non-Jet |         |       |  |      |     |   |
|               |                                   | Annual             | Monthly | Daily         | Annual | Monthly           | Daily | Annual            | Monthly | Daily |  |      |     |   |
| 300           | 91                                |                    |         |               | 2167   | 197               | 7     |                   |         |       |  |      |     |   |
| 400           | 109                               |                    |         |               | 2595   | 236               | 8     |                   |         |       |  |      |     |   |
| 500           | 16                                |                    |         |               |        |                   |       |                   |         |       |  | 1143 | 104 | 4 |
| 600           | 122                               |                    |         | 5             |        |                   |       |                   |         |       |  |      |     |   |
| 700           | 131                               |                    |         | 5             |        |                   |       |                   |         |       |  |      |     |   |
| 800           | 87                                |                    |         |               | 2072   | 189               | 7     |                   |         |       |  |      |     |   |
| Sub Total     | 556                               | 3031               | 275     | 10            | 6834   | 622               | 22    |                   |         |       |  | 1143 | 104 | 4 |
| Non-Scheduled | 44                                |                    |         |               |        |                   |       |                   |         |       |  | 2175 | 218 | 8 |
| TOTAL         | 600                               | 3031               | 275     | 10            | 6834   | 622               | 22    |                   |         |       |  | 2175 | 218 | 8 |
|               |                                   |                    |         |               |        |                   |       |                   |         |       |  | 1143 | 104 | 4 |



Table 3A-13 PROJECTED DOMESTIC AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 1995

| Route         | Number of<br>Passengers<br>[1000] | Aircraft Movements |         |               |        |                   |       |                   |         |       |  |  |  |
|---------------|-----------------------------------|--------------------|---------|---------------|--------|-------------------|-------|-------------------|---------|-------|--|--|--|
|               |                                   | 120-Seater Jet     |         | 60-Seater Jet |        | 40-Seater Non-Jet |       | 20-Seater Non-Jet |         |       |  |  |  |
|               |                                   | Annual             | Monthly | Daily         | Annual | Monthly           | Daily | Annual            | Monthly | Daily |  |  |  |
| 300           | 121                               | 1441               | 131     | 5             |        |                   |       |                   |         |       |  |  |  |
| 400           | 146                               | 1739               | 159     | 6             |        |                   |       |                   |         |       |  |  |  |
| 500           | 22                                |                    |         |               |        |                   | 786   | 72                | 3       |       |  |  |  |
| 600           | 163                               | 1941               | 177     | 6             |        |                   |       |                   |         |       |  |  |  |
| 700           | 176                               | 2096               | 191     | 7             |        |                   |       |                   |         |       |  |  |  |
| 800           | 116                               | 1381               | 126     | 5             |        |                   |       |                   |         |       |  |  |  |
| Sub Total     | 743                               | 8598               | 784     | 29            |        |                   | 786   | 72                | 3       |       |  |  |  |
| Non-Scheduled | 59                                |                    |         |               | 1639   | 164               | 6     |                   |         |       |  |  |  |
| TOTAL         | 802                               | 8598               | 784     | 29            | 1639   | 164               | 6     | 786               | 72      | 3     |  |  |  |

Table 3A-14 PROJECTED DOMESTIC AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 2000

| Route         | Number of<br>Passengers<br>[1000] | Aircraft Movements |         |               |        |                   |       |                   |         |       |  |  |  |  |  |  |  |
|---------------|-----------------------------------|--------------------|---------|---------------|--------|-------------------|-------|-------------------|---------|-------|--|--|--|--|--|--|--|
|               |                                   | 120-Seater Jet     |         | 60-Seater Jet |        | 40-Seater Non-Jet |       | 20-Seater Non-Jet |         |       |  |  |  |  |  |  |  |
|               |                                   | Annual             | Monthly | Daily         | Annual | Monthly           | Daily | Annual            | Monthly | Daily |  |  |  |  |  |  |  |
| 300           | 155                               | 1845               | 168     | 6             |        |                   |       |                   |         |       |  |  |  |  |  |  |  |
| 400           | 186                               | 2214               | 202     | 7             |        |                   |       |                   |         |       |  |  |  |  |  |  |  |
| 500           | 28                                |                    |         |               |        |                   | 1000  | 91                | 4       |       |  |  |  |  |  |  |  |
| 600           | 208                               | 2476               | 226     | 8             |        |                   |       |                   |         |       |  |  |  |  |  |  |  |
| 700           | 224                               | 2667               | 243     | 9             |        |                   |       |                   |         |       |  |  |  |  |  |  |  |
| 800           | 148                               | 1761               | 161     | 6             |        |                   |       |                   |         |       |  |  |  |  |  |  |  |
| Sub Total     | 949                               | 10963              | 1000    | 36            |        |                   | 1000  | 91                | 4       |       |  |  |  |  |  |  |  |
| Non-Scheduled | 75                                |                    |         |               | 2063   | 207               | 7     |                   |         |       |  |  |  |  |  |  |  |
| TOTAL         | 1024                              | 10963              | 1000    | 36            | 2063   | 207               | 7     | 1000              | 91      | 4     |  |  |  |  |  |  |  |

Table 3A-15 PROJECTED DOMESTIC AIRCRAFT MOVEMENTS BY ROUTE AT RIA IN THE YEAR 2005

| Route         | Number of<br>Passengers<br>[1000] | Aircraft Movements |         |               |        |                   |       |                   |         |       |   |  |  |  |
|---------------|-----------------------------------|--------------------|---------|---------------|--------|-------------------|-------|-------------------|---------|-------|---|--|--|--|
|               |                                   | 120-Seater Jet     |         | 60-Seater Jet |        | 40-Seater Non-Jet |       | 20-Seater Non-Jet |         |       |   |  |  |  |
|               |                                   | Annual             | Monthly | Daily         | Annual | Monthly           | Daily | Annual            | Monthly | Daily |   |  |  |  |
| 300           | 188                               | 2239               | 204     | 7             |        |                   |       |                   |         |       |   |  |  |  |
| 400           | 227                               | 2703               | 246     | 9             |        |                   |       |                   |         |       |   |  |  |  |
| 500           | 34                                |                    |         |               |        |                   | 1215  | 111               |         |       | 4 |  |  |  |
| 600           | 253                               | 3012               | 274     | 10            |        |                   |       |                   |         |       |   |  |  |  |
| 700           | 273                               | 3251               | 296     | 10            |        |                   |       |                   |         |       |   |  |  |  |
| 800           | 181                               | 2155               | 196     | 7             |        |                   |       |                   |         |       |   |  |  |  |
| Sub Total     | 1155                              | 13360              | 1216    | 43            |        |                   | 1215  | 111               |         |       | 4 |  |  |  |
| Non-Scheduled | 91                                |                    |         |               | 2167   | 217               | 8     |                   |         |       |   |  |  |  |
| TOTAL         | 1246                              | 13360              | 1216    | 43            | 2167   | 217               | 8     | 1215              | 111     |       | 4 |  |  |  |

Fig. 3A-1 GRAPHIC PRESENTATION OF THE REGRESSION MODEL OF THE NORMAL INTERNATIONAL PASSENGERS

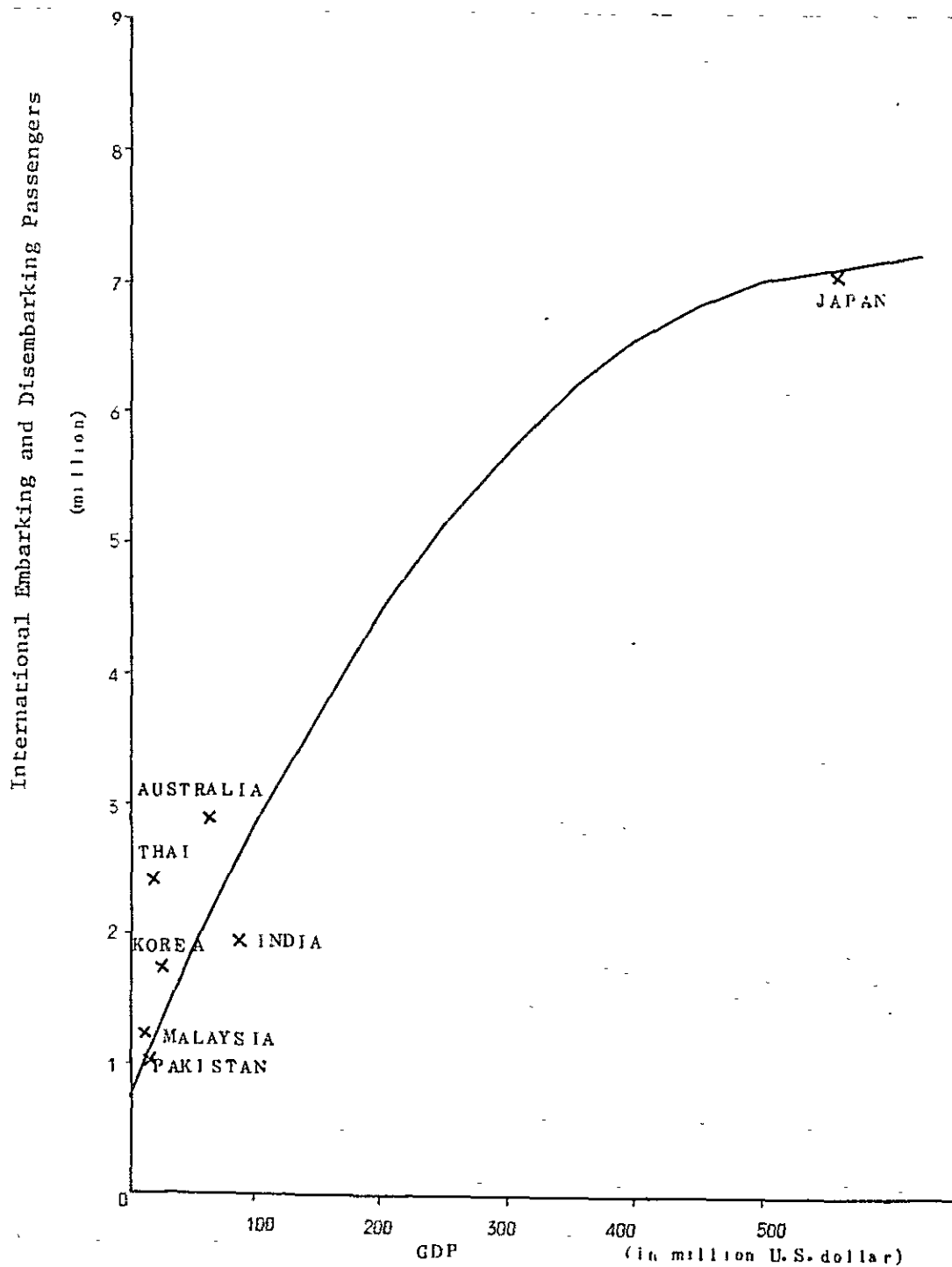


Fig. 3A-2 SHARE OF TRANSIT PASSENGERS  
IN INTERNATIONAL AIR PASSENGERS

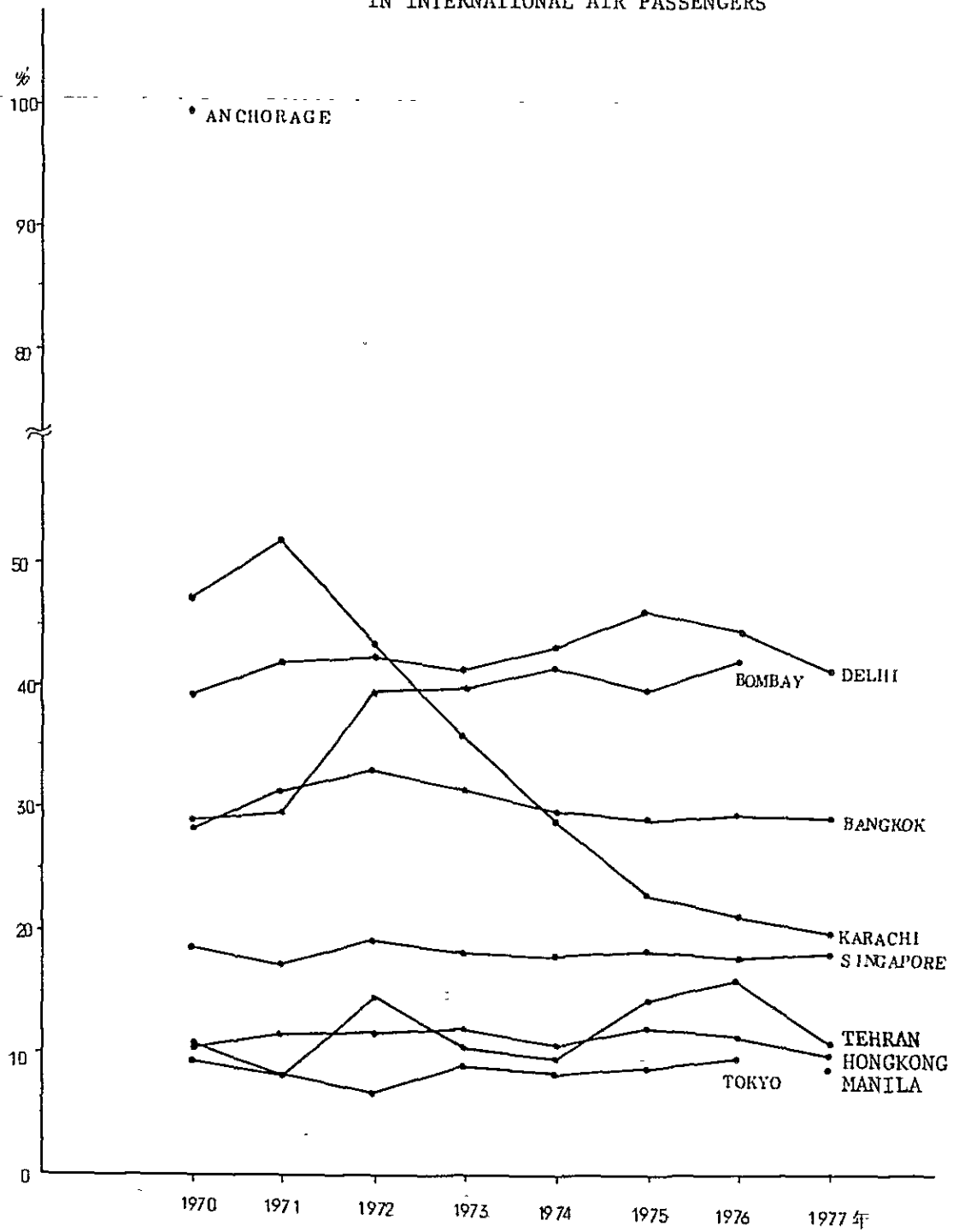
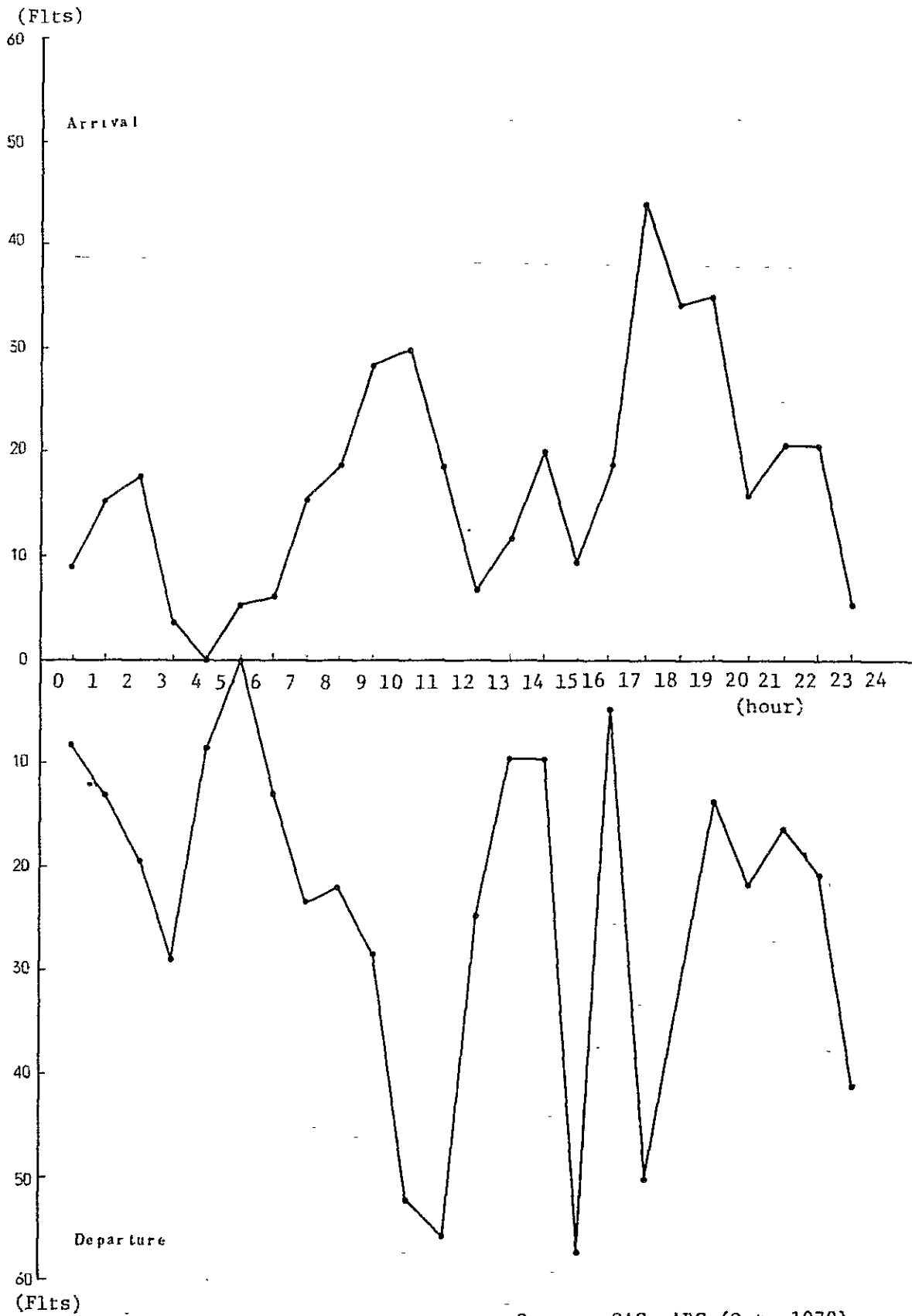


Fig 3A-3 LANDING & TAKE-OFF AT BANGKOK INTERNATIONAL AIRPORT



Source: OAG, ABC (Oct. 1979)

Fig. 3A-4 FORECASTS OF AIR PASSENGER AT RANGOON INTERNATIONAL AIRPORT

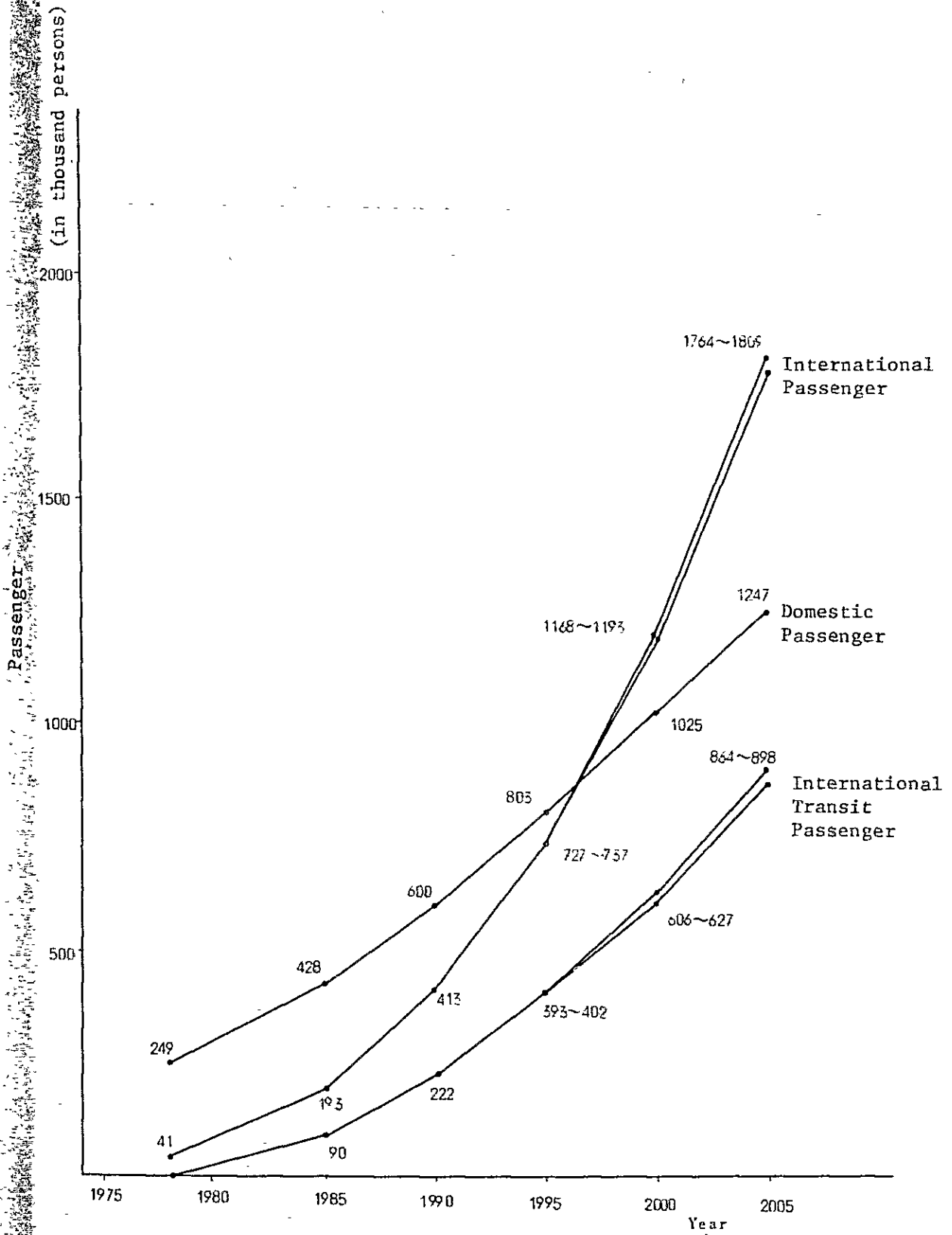


Table 3A-16 FORECASTS OF INTERNATIONAL NON-SCHEDULED CARGO FLIGHT MOVEMENT AT RIA

| Year | Cargo<br>(tons) | Aircraft Movements<br>(170 Seater-Jet) |         |        |
|------|-----------------|--|---------|--------|
|      |                 | Annual                                 | Monthly | Weekly |
| 1985 | 18              | 1                                      | 1       | 1      |
| 1990 | 38              | 3                                      | 1       | 1      |
| 1995 | 76              | 5                                      | 1       | 1      |
| 2000 | 146             | 9                                      | 1       | 1      |
| 2005 | 270             | 15                                     | 2       | 1      |

International Non-Scheduled Cargo (tons)

= 0.02 x Total International Cargo

(2% of Total International Cargo)



Table 3A-17 FORECASTS OF DOMESTIC NON-SCHEDULED  
CARGO FLIGHT MOVEMENTS AT RIA

| Year | Cargo<br>(in tons) | Aircraft Movements |         |       |                   |         |       |
|------|--------------------|--------------------|---------|-------|-------------------|---------|-------|
|      |                    | 40-Seater Non-Jet  |         |       | 20-Seater Non-Jet |         |       |
|      |                    | Annual             | Monthly | Daily | Annual            | Monthly | Daily |
| 1985 | 1510               | 607                | 61      | 3     | 303               | 31      | 2     |
| 1990 | 1980               | 795                | 80      | 4     | 398               | 40      | 2     |
| 1995 | 2550               | 1063               | 107     | 5     |                   |         |       |
| 2000 | 3080               | 1284               | 129     | 6     |                   |         |       |
| 2005 | 3564               | 1268               | 128     | 6     |                   |         |       |

Table 3A-18 FORECASTS OF AIR TRAFFIC AT THE MINGALADON AIRPORT AND ANNUAL GROWTH RATE

| Case No. | Item                       | (in 1000 passenger or 1000 ton) |           |           |           |           |            |
|----------|----------------------------|---------------------------------|-----------|-----------|-----------|-----------|------------|
|          |                            | 1978                            | 1985      | 1990      | 1995      | 2000      | 2005       |
| I        | International Emb./Disemb. | 41                              | 110 (15%) | 212 (14%) | 390 (13%) | 687 (12%) | 1157 (11%) |
|          | Passenger                  | -                               | 90 ( - )  | 222 (20%) | 402 (13%) | 627 (9%)  | 898 (7%)   |
|          | International Transit      | -                               | -         | -         | -         | -         | -          |
|          | Passenger                  | 250                             | 456 (9%)  | 670 (8%)  | 940 (7%)  | 1258 (6%) | 1606 (5%)  |
|          | Domestic Passenger         | 0.3                             | 1.0 (18%) | 2.1 (17%) | 4.4 (16%) | 8.9 (15%) | 17.0 (14%) |
|          | International Cargo        | 2.1                             | 3.6 (8%)  | 5.0 (7%)  | 6.8 (6%)  | 8.6 (5%)  | 10.5 (4%)  |
|          | Domestic Cargo             | -                               | -         | -         | -         | -         | -          |
| II       | International Emb./Disemb. | 41                              | 103 (14%) | 190 (13%) | 336 (12%) | 565 (11%) | 911 (10%)  |
|          | Passenger                  | -                               | 90 ( - )  | 222 (20%) | 402 (13%) | 627 (9%)  | 898 (7%)   |
|          | International Transit      | -                               | -         | -         | -         | -         | -          |
|          | Passenger                  | 250                             | 428 (8%)  | 600 (7%)  | 803 (6%)  | 1025 (5%) | 1247 (4%)  |
|          | Domestic Passenger         | 0.3                             | 0.9 (17%) | 1.9 (16%) | 3.8 (15%) | 7.3 (14%) | 13.5 (13%) |
|          | International Cargo        | 2.1                             | 3.4 (7%)  | 4.5 (6%)  | 5.8 (5%)  | 7.0 (4%)  | 8.1 (3%)   |
|          | Domestic Cargo             | -                               | -         | -         | -         | -         | -          |
| III      | International Emb./Disemb. | 41                              | 117 (16%) | 225 (14%) | 396 (12%) | 638 (10%) | 937 (8%)   |
|          | Passenger                  | -                               | 90 ( - )  | 222 (20%) | 402 (13%) | 627 (9%)  | 898 (7%)   |
|          | International Transit      | -                               | -         | -         | -         | -         | -          |
|          | Passenger                  | 250                             | 486 (10%) | 715 (8%)  | 956 (6%)  | 1164 (4%) | 1285 (2%)  |
|          | Domestic Passenger         | 0.3                             | 1.0 (19%) | 2.2 (17%) | 4.5 (15%) | 8.2 (13%) | 13.9 (11%) |
|          | International Cargo        | 2.1                             | 3.8 (9%)  | 5.4 (7%)  | 6.9 (5%)  | 8.0 (3%)  | 8.4 (1%)   |
|          | Domestic Cargo             | -                               | -         | -         | -         | -         | -          |

Air Traffic Forecast of Asia Area by ICAO (1978-1986)

|                         |     |
|-------------------------|-----|
| International Passenger | 16% |
| Domestic Passenger      | 10% |
| International Cargo     | 19% |
| Domestic Cargo          | 9%  |

Table 3A-19 TRAFFIC OF PRINCIPAL INTERNATIONAL AIRPORTS OF ICAO STATES (IN 1976)

| State             | Passenger<br>(in 1000 persons) |          | Cargo<br>(in 1000 tons) |          | GDP<br>(in million dollars) | Area<br>(in 1000 km <sup>2</sup> ) |
|-------------------|--------------------------------|----------|-------------------------|----------|-----------------------------|------------------------------------|
|                   |                                |          |                         |          |                             |                                    |
|                   | International                  | Domestic | International           | Domestic |                             |                                    |
| Bangladesh        | 125                            | 334      | 3.2                     | 3.3      | 6838                        | 144                                |
| Hong Kong         | 4415                           | -        | 163.2                   | -        | 29322                       | 1                                  |
| India             | 1921                           | -        | 87.6                    | -        | 86918                       | 3280                               |
| Indonesia         | 965                            | 1955     | 15.8                    | 20.0     | 37270                       | 1904                               |
| Japan             | 7091                           | 23773    | 366.2                   | 192.6    | 555063                      | 372                                |
| Malaysia          | 1243                           | 870      | 15.6                    | -        | 11060                       | 330                                |
| Pakistan          | 1087                           | 2052     | 31.3                    | 25.6     | 14510                       | 804                                |
| Republic of Korea | 1733                           | 573      | 92.8                    | 3.4      | 25369                       | 98                                 |
| Singapore         | 3799                           | -        | 78.2                    | -        | 5915                        | 0.6                                |
| Sri Lanka         | 204                            | 14       | 0.5                     | -        | 3131                        | 66                                 |
| Thailand          | 2487                           | 232      | 59.1                    | 1.0      | 16283                       | 514                                |
| Australia         | 2897                           | 12118    | 75.9                    | 152.6    | 64022                       | 7687                               |
| Denmark           | 6471                           | 1582     | 139.7                   | 4.8      | 38527                       | 43                                 |
| France            | 17232                          | 9824     | 419.8                   | 44.0     | 346731                      | 547                                |
| West Germany      | 20028                          | 13878    | 500.9                   | 153.3    | 445909                      | 248                                |
| Ireland           | 2606                           | 359      | 52.0                    | 8.3      | 7971                        | 70                                 |
| Netherlands       | 8056                           | 160      | 266.4                   | 0.1      | 89523                       | 41                                 |
| United Kingdom    | 28432                          | 5092     | 500.8                   | 29.6     | 220155                      | 244                                |
| Austria           | 2276                           | 3        | 28.5                    | 0        | 40620                       | 84                                 |

(Continued)

| State        | Passenger<br>(in 1000 persons) |          | Cargo<br>(in 1000 tons) |          | GDP<br>(in million dollars) | Area<br>(in 1000 km <sup>2</sup> ) |
|--------------|--------------------------------|----------|-------------------------|----------|-----------------------------|------------------------------------|
|              | International                  | Domestic | International           | Domestic |                             |                                    |
| Finland      | 1698                           | 1143     | 16.5                    | 4.3      | 28145                       | 337                                |
| Iceland      | 256                            | 248      | 4.7                     | 4.8      | 1455                        | 103                                |
| Norway       | 2086                           | 2772     | 17.5                    | 13.7     | 31301                       | 324                                |
| Sweden       | 4077                           | 1593     | 45.2                    | 4.1      | 74214                       | 450                                |
| Switzerland  | 8694                           | 1190     | 144.9                   | 17.8     | 56284                       | 41                                 |
| Greece       | 3967                           | 2412     | 33.1                    | 11.8     | 22245                       | 132                                |
| Spain        | 15391                          | 14966    | 108.6                   | 149.0    | 104620                      | 505                                |
| Kenya        | 786                            | 149      | 34.7                    | 0.4      | 3405                        | 583                                |
| South Africa | 1506                           | 2952     | 61.8                    | 38.5     | 33472                       | 1221                               |
| Canada       | 9724                           | 13414    | 141.9                   | 175.2    | 194606                      | 9976                               |
| U.S.A.       | 25585                          | 136898   | 1194.9                  | 2286.3   | 1702023                     | 9363                               |
| Brazil       | 2156                           | 6040     | 91.1                    | 84.7     | 144615                      | 8512                               |
| Chile        | 427                            | 212      | 22.6                    | 6.8      | 8088                        | 757                                |
| Honduras     | 172                            | 83       | 10.0                    | 1.3      | 1201                        | 1.2                                |
| Mexico       | 3549                           | 8780     | -                       | -        | 79139                       | 1973                               |
| Nicaragua    | 203                            | 30       | 15.9                    | 3.1      | 1835                        | 130                                |
| Panama       | 723                            | 83       | 40.8                    | 1.3      | 2028                        | 76                                 |
| Peru         | 1289                           | 1135     | 15.0                    | 12.0     | 9872                        | 1285                               |

(Continued)

| State        | Passenger<br>(in 1000 persons) |          | Cargo<br>(in 1000 tons) |          | GDP<br>(in million dollars) | Area<br>(in 1000 km <sup>2</sup> ) |
|--------------|--------------------------------|----------|-------------------------|----------|-----------------------------|------------------------------------|
|              | International                  | Domestic | International           | Domestic |                             |                                    |
| Uruguay      | 591                            | 70       | 10.5                    | 0        | 3693                        | 178                                |
| Venezuela    | 1414                           | 3036     | 82.9                    | 12.7     | 31019                       | 912                                |
| Iran         | 1454                           | 1840     | 96.2                    | 12.0     | 66777                       | 1648                               |
| Saudi Arabia | 1933                           | 1328     | 11.2                    | 5.2      | 43924                       | 2150                               |

Table 3A-20 INTERNATIONAL AIR PASSENGERS AT PRINCIPAL AIRPORT IN ASIA

| Airport | (in 1000 persons)  |      |      |      |      |      |      |      |      |      | Average Annual Growth Rate for 1972 - 77 (in percent) |
|---------|--------------------|------|------|------|------|------|------|------|------|------|---|
|         | 1970               | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1977 | 1977 |   |
| TEHRAN  | Embark & Disembark | 410  | 506  | 501  | 582  | 764  | 1079 | 1269 | 1471 | 1471 | 24  |
|         | Transit            | 50   | 40   | 82   | 67   | 76   | 182  | 228  | 164  | 164  | 15  |
|         | Total              | 460  | 546  | 583  | 649  | 840  | 1261 | 1497 | 1635 | 1635 | 23  |
|         |                    |      |      |      |      |      |      |      |      |      |   |
| KARACHI | Embark & Disembark | 276  | 232  | 256  | 386  | 534  | 711  | 954  | 1222 | 1222 | 37  |
|         | Transit            | 244  | 248  | 174  | 223  | 211  | 214  | 265  | 305  | 305  | 12  |
|         | Total              | 520  | 480  | 430  | 609  | 745  | 925  | 1219 | 1527 | 1527 | 29  |
|         |                    |      |      |      |      |      |      |      |      |      |   |
| DELHI   | Embark & Disembark | 311  | 298  | 416  | 499  | 479  | 535  | 418  | 712  | 712  | 11  |
|         | Transit            | 201  | 211  | 307  | 358  | 356  | 451  | 329  | 500  | 500  | 10  |
|         | Total              | 512  | 509  | 723  | 857  | 835  | 986  | 747  | 1212 | 1212 | 11  |
|         |                    |      |      |      |      |      |      |      |      |      |   |
| BOMBAY  | Embark & Disembark | 492  | 522  | 614  | 662  | 701  | 889  | 792  | -    | -    | 7   |
|         | Transit            | 194  | 217  | 386  | 422  | 489  | 585  | 560  | -    | -    | 10  |
|         | Total              | 686  | 739  | 1000 | 1084 | 1190 | 1474 | 1352 | -    | -    | 8   |
|         |                    |      |      |      |      |      |      |      |      |      |   |
| BANGKOK | Embark & Disembark | 1250 | 1236 | 1553 | 1967 | 2116 | 2370 | 2487 | 2719 | 2719 | 12  |
|         | Transit            | 490  | 574  | 741  | 896  | 901  | 934  | 981  | 1072 | 1072 | 8   |
|         | Total              | 1740 | 1810 | 2294 | 2863 | 3017 | 3304 | 3468 | 3791 | 3791 | 11  |
|         |                    |      |      |      |      |      |      |      |      |      |   |

Source: International Air Transport Association, World Air Transport Statistics, 1978.

(Continued)

| Airport            | (in 1000 persons) |      |      |      |      |      |      |      |  |  | Average Annual Growth Rate for 1972 - 77 (in percent) |
|--------------------|-------------------|------|------|------|------|------|------|------|--|--|---|
|                    | 1970              | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |  |  |   |
| SINGAPORE          |                   |      |      |      |      |      |      |      |  |  |   |
| Embark & Disembark | 1379              | 1669 | 1476 | 2123 | 2997 | 3324 | 3740 | 4224 |  |  | 23  |
| Transit            | 309               | 346  | 340  | 464  | 636  | 708  | 787  | 906  |  |  | 22  |
| Total              | 1688              | 2015 | 1816 | 2587 | 3633 | 4032 | 4527 | 5130 |  |  | 23  |
| HONG KONG          |                   |      |      |      |      |      |      |      |  |  |   |
| Embark & Disembark | 1105              | 2371 | 2880 | 3543 | 3693 | 3865 | 4415 | 4899 |  |  | 11  |
| Transit            | 134               | 299  | 375  | 482  | 452  | 525  | 553  | 543  |  |  | 8   |
| Total              | 1239              | 2670 | 3255 | 4025 | 4145 | 4390 | 4968 | 5442 |  |  | 11  |
| TOKYO              |                   |      |      |      |      |      |      |      |  |  |   |
| Embark & Disembark | 2357              | -    | 3199 | 4350 | 4485 | 5013 | 5686 | -    |  |  | 15*   |
| Transit            | 257               | -    | 250  | 405  | 407  | 460  | 564  | -    |  |  | 23*   |
| Total              | 2614              | -    | 3449 | 4755 | 4892 | 5473 | 6250 | -    |  |  | 16*   |

Source: ICAO Airport Statistics

\* 1972-1976

Table 3A-21 ESTIMATED FUTURE GDP OF BURMA

| Year | Gross Domestic Product<br>(Million of Constant 1978 U.S. dollars) |
|------|---|
| 1980 | 3,896   |
| 1985 | 5,820   |
| 1990 | 7,751   |
| 1995 | 10,324  |
| 2000 | 13,751  |
| 2005 | 18,315  |

Table 3A-22 LOAD FACTORS USED IN PROJECT PLANNING

|           | International | Domestic      |
|-----------|---------------|---------------|
| Passenger | Scheduled     | 70%           |
|           | Non-Scheduled | 50% (in 1985) |
|           |               | 60% (in 1995) |
|           |               | 70% (in 2005) |
| Cargo     | Scheduled     | 70%           |
|           | Non-Scheduled | 50% (in 1985) |
|           |               | 60% (in 1995) |
|           |               | 70% (in 2005) |



APPENDIX 3B

LISTS OF PROJECTION FORMULA

1. 首先，我们来看一下这个函数的定义域。由于分母不能为零，所以我们需要排除那些使得分母为零的x值。通过解方程，我们可以找到这些值。然后，我们将这些值从实数轴上划掉，剩下的部分就是函数的定义域。

2. 接下来，我们考虑函数的渐近线。对于有理函数，我们通常关注水平渐近线和斜渐近线。通过比较分子和分母的最高次项，我们可以确定水平渐近线。如果分子的次数比分母高，那么函数就没有水平渐近线，但可能有斜渐近线。

3. 为了更清楚地了解函数的行为，我们可以绘制它的图像。这涉及到找到函数的零点（即分子等于零的解）和极值点。此外，我们还需要检查函数在定义域的边界附近的行为，以及它是否穿过渐近线。

4. 最后，我们可能会用到微积分来研究函数的性质。例如，通过求导数，我们可以找到函数的局部极值点和拐点。这有助于我们更精确地描述函数的形状和特征。

Table 3B-1 THE REGRESSION MODEL USED IN FORECAST

Formula 1. Normal International Passengers at Mingaladon Airport

$$Y = 781.5 + 0.02230 \text{ (GDP)} - 0.00000001971 \text{ (GDP)}^2$$

$$r = 0.927$$

GDP: 1976 year constant price (in million dollar)  
Y: International passenger (in thousand persons)

Formula 2. International Passenger between East Asia and Europe

$$Y = 105003.8 + 159250.1t$$

$$r = 0.984$$

t: Trend (t=1, 1967 year)  
Y: International passenger between East Asia and Europe (in person)

Formula 3. International Passenger between South East Asia and Europe

$$Y = 3937.8 + 65158.0t$$

$$r = 0.966$$

t: Trend (t=1, 1967 year)  
Y: International passenger between South East Asia and Europe (in person)

Formula 4. International Passenger between Australia, New Zealand and Europe

$$Y = -8263.8 + 135783.3t$$

$$r = 0.933$$

t: Trend (t=1, 1967 year)  
Y: International passenger between Australia, New Zealand and Europe (in person)

(continued)

Formula 5. International Passenger between South Asia and USA, Canada

$$Y = 45410.7 + 12324.0t$$

$$r = 0.950$$

t: Trend (t=1, 1967 year)

Y: International passenger between South Asia and USA, Canada (in person)

Formula 6. Normal Domestic Passenger at Mingaladon Airport

$$Y = 710.76 + 0.3513 (\text{GDP}) + 0.37118 (\text{S})$$

$$r = 0.876$$

GDP: 1976 year constant price (in million dollar)

S: National area (in thousand km<sup>2</sup>)

Y: Domestic passenger (in thousand persons)

Formula 7. Normal International Cargo at Mingaladon Airport

$$Y = 15.424 + 0.0009467 (\text{GDP})$$

$$r = 0.946$$

GDP: 1976 year constant price (in million dollar)

Y: International cargo (in thousand tons)

Formula 8. Normal Domestic Cargo at Mingaladon Airport

$$Y = -1.04835 + 0.00030 (\text{GDP}) + 0.00859 (\text{S})$$

$$r = 0.849$$

GDP: 1976 year constant price (in million dollar)

S: National area (in thousand km<sup>2</sup>)

Y: Domestic cargo (in thousand tons)

APPENDIX 4A

RUNWAY DIMENSION OF INTERNATIONAL AIRPORTS  
IN THE MAJOR CITIES OF SOUTH EAST ASIA

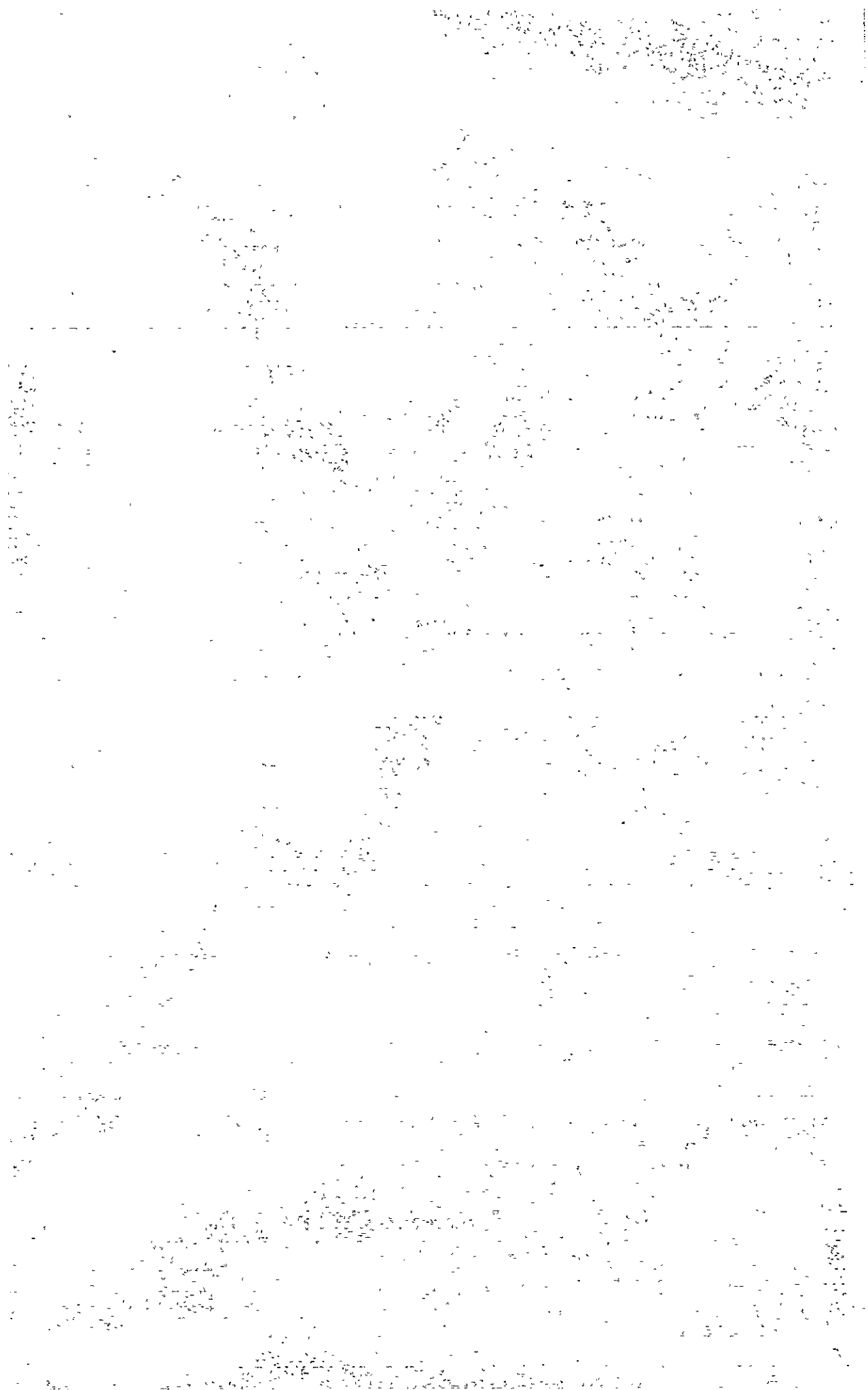
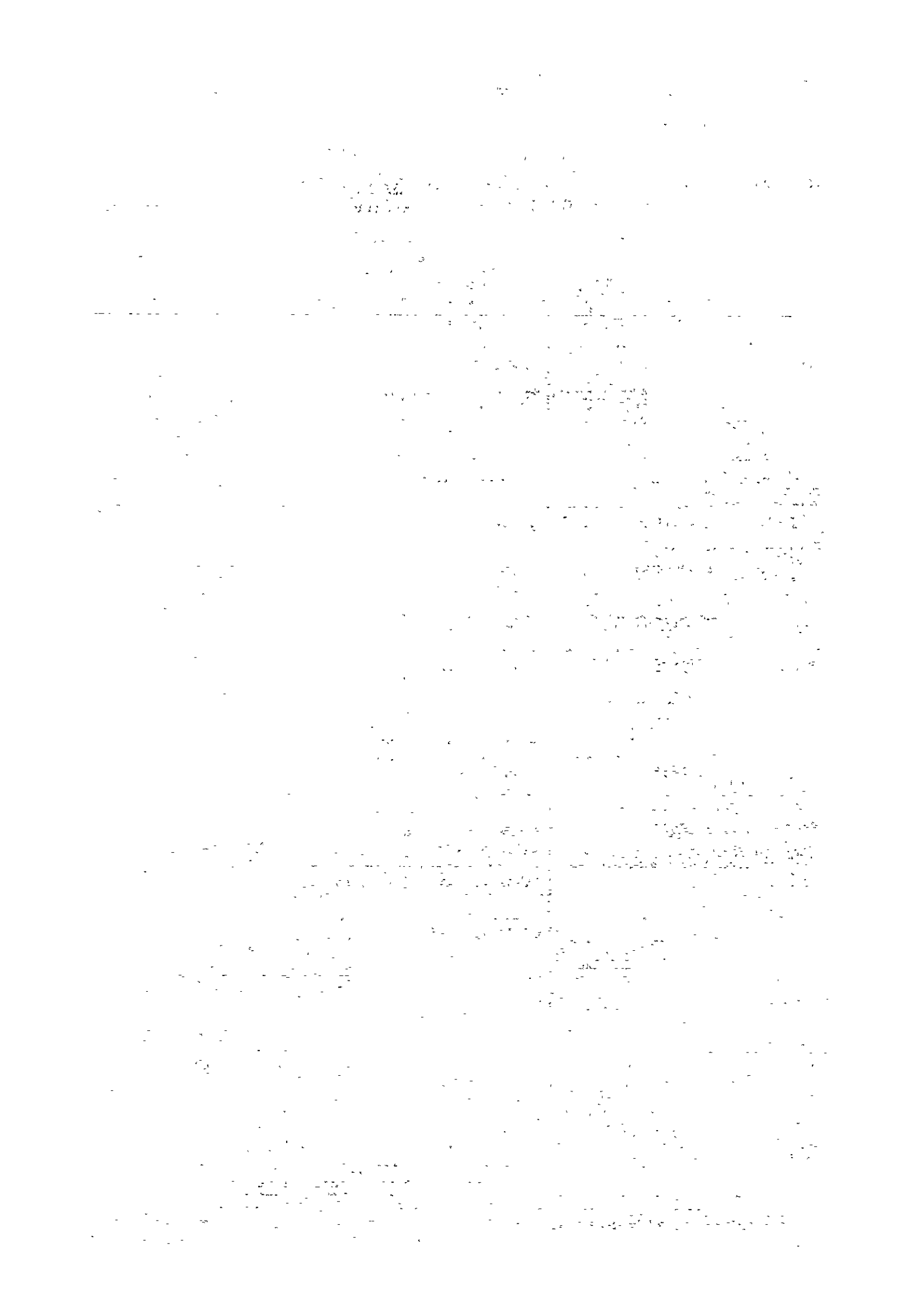


Table 4A-1 RUNWAY DIMENSION OF INTERNATIONAL AIRPORTS  
IN THE MAJOR CITIES OF SOUTH EAST ASIA

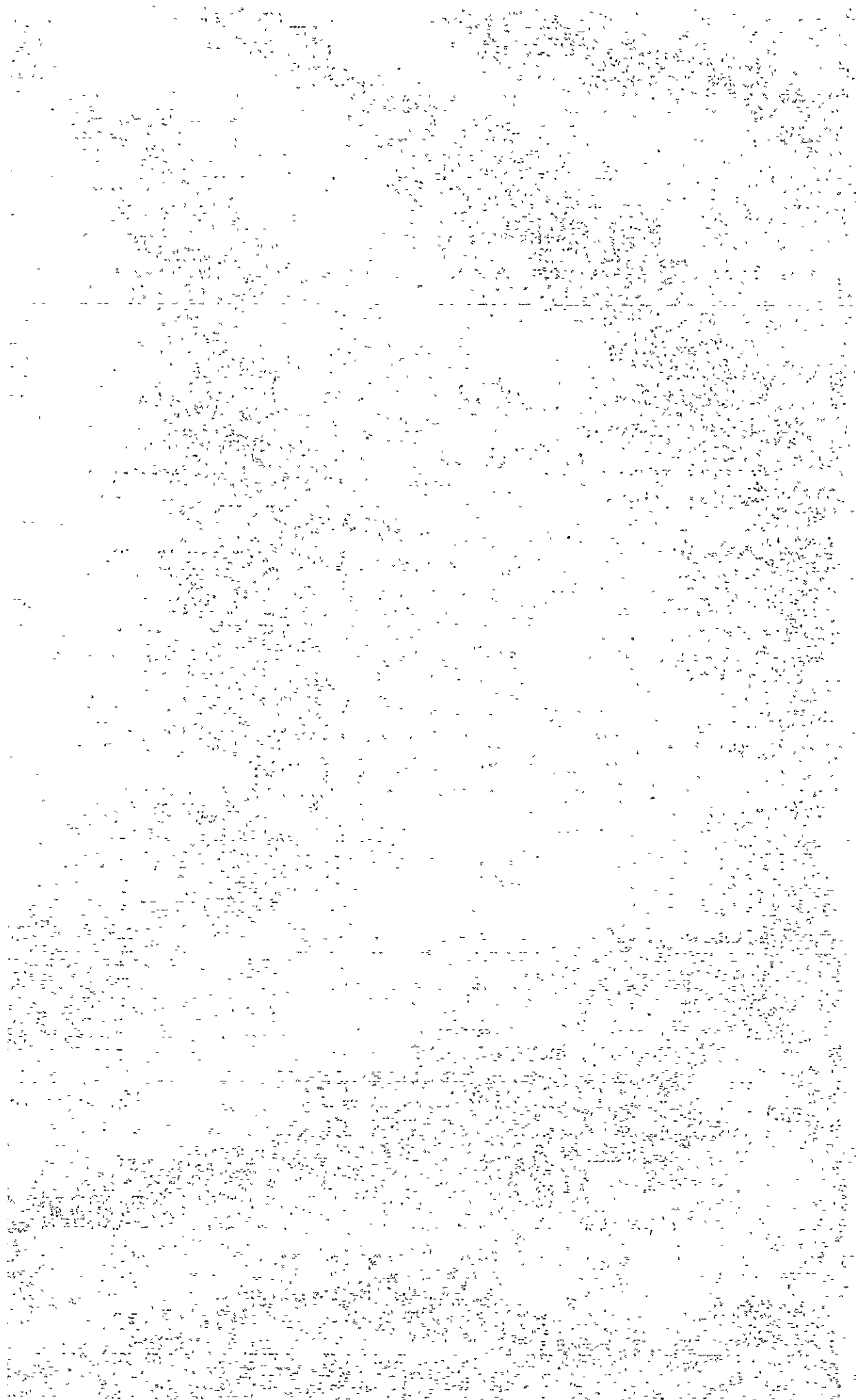
| Name of Airport               | RUNWAY         |            | REMARKS            |
|-------------------------------|----------------|------------|--------------------|
|                               | LENGTH         | WIDTH      |                    |
| BURMA / RANGOON Int'l         | 2469m (8100')  | 60m (200') |                    |
| BANGLADESH / DACCA            | 2740m (8990')  |            |                    |
| INDIA / CALCATTA              | 3630m (11909') |            |                    |
| INDIA / DELHI                 | 3810m (12500') |            |                    |
| INDIA / BOMBAY                | 3350m (10991') |            |                    |
| INDIA / BOMBAY                | 2730m (8957')  |            |                    |
| SLI LANKA / COLOMBO Int'l     | 3370m (11056') | 46m (151') |                    |
| NEPAL / KATHMANDU Int'l       | 3000m (9843')  | 45m (148') |                    |
| NEPAL / KATHMANDU Int'l       | 1200m (3937')  |            |                    |
| PAKISTAN / KARACHI Int'l      | 3200m (10499') |            |                    |
| AFGHANISTAN / KABUL           | 2800m (9186')  |            | FUTURE PLANNING    |
| AFGHANISTAN / KABUL           | 3700m (12139') |            |                    |
| THAILAND / BANGKOK Int'l      | 3550m (11647') | 60m (200') |                    |
| THAILAND / BANGKOK Int'l      | 3000m (9843')  | 45m (148') |                    |
| LAO / VIENTIANE               | 3000m (9843')  |            | FUTURE PLANNING    |
| LAO / VIENTIANE               | 3000m (9843')  |            |                    |
| VIET-NAM / HANOI              | 2000m (6562')  |            | FUTURE PLANNING    |
| VIET-NAM / HANOI              | 2810m (9219')  |            |                    |
| MALAYSIA / KUALA LUMPUR Int'l | 3474m (11398') | 45m (148') |                    |
| SINGAPORE / SINGAPORE Int'l   | 4023m (13199') | 61m (200') |                    |
| SINGAPORE / SINGAPORE Int'l   | 4000m (13123') | 60m (197') | UNDER CONSTRUCTION |
| SINGAPORE / SINGAPORE Int'l   | 3355m (11007') | 60m (197') | FUTURE PLANNING    |
| INDONESIA / JAKARTA Int'l     | 3000m (9843')  |            |                    |
| HONG KONG / HONG KONG Int'l   | 3400m (11155') | 60m (197') |                    |
| PHILIPPINES / MANILA Int'l    | 3354m (11004') | 61m (200') |                    |
| PHILIPPINES / MANILA Int'l    | 2425m (7956')  | 31m (102') |                    |
| CHINA / TAIPEI Int'l          | 2605m (8547')  | 60m (197') |                    |
| CHINA / TAIPEI Int'l          | 3660m (12008') | 60m (197') |                    |
| CHINA / TAOYUAN Int'l         | 3200m (10499') | 60m (197') | FUTURE PLANNING    |
| CHINA / TAOYUAN Int'l         | 3140m (10302') | 45m (148') | FUTURE PLANNING    |





APPENDIX 5A

FINANCIAL ANALYSIS DATA



(Chapter 8, Appendix 1)

Table 5A-1 GROSS REVENUE BY THE PROJECT

(CASE 1)

| Year  | Landing Charge | Housing Charge | Air Navigation Facilities Charge | Passenger Charge | Terminal Rental | Car Parking Charge | Fuel Service Charge | Total  |
|-------|----------------|----------------|----------------------------------|------------------|-----------------|--------------------|---------------------|--------|
| 1985  | 108            | 36             | 327                              | 103              | 79              | 93                 | 380                 | 1,126  |
| 6     | 299            | 36             | 358                              | 117              | 289             | 102                | 437                 | 1,638  |
| 7     | 364            | 36             | 385                              | 132              | 289             | 111                | 494                 | 1,811  |
| 8     | 475            | 51             | 385                              | 149              | 289             | 122                | 551                 | 2,022  |
| 9     | 581            | 61             | 378                              | 168              | 289             | 131                | 608                 | 2,216  |
| 1990  | 648            | 68             | 403                              | 190              | 289             | 143                | 665                 | 2,406  |
| 1     | 798            | 98             | 400                              | 213              | 289             | 154                | 749                 | 2,701  |
| 2     | 887            | 98             | 427                              | 239              | 289             | 166                | 829                 | 2,935  |
| 3     | 985            | 98             | 454                              | 268              | 289             | 180                | 910                 | 3,184  |
| 4     | 1,140          | 88             | 419                              | 300              | 289             | 195                | 992                 | 3,423  |
| 1995  | 1,236          | 101            | 382                              | 334              | 289             | 210                | 1,074               | 3,626  |
| 6     | 1,345          | 101            | 405                              | 372              | 529             | 227                | 1,186               | 4,165  |
| 7     | 1,474          | 107            | 433                              | 412              | 529             | 243                | 1,299               | 4,497  |
| 8     | 1,604          | 111            | 457                              | 457              | 529             | 261                | 1,411               | 4,830  |
| 9     | 1,715          | 111            | 480                              | 507              | 529             | 281                | 1,524               | 5,147  |
| 2000  | 1,857          | 119            | 509                              | 562              | 527             | 303                | 1,636               | 5,515  |
| 1     | 2,026          | 119            | 538                              | 620              | 529             | 323                | 1,773               | 5,928  |
| 2     | 2,166          | 130            | 559                              | 680              | 529             | 346                | 1,991               | 6,401  |
| 3     | 2,332          | 133            | 585                              | 747              | 529             | 369                | 2,048               | 6,743  |
| 4     | 2,497          | 133            | 612                              | 819              | 529             | 396                | 2,186               | 7,172  |
| 2005  | 2,630          | 139            | 636                              | 900              | 529             | 423                | 2,323               | 7,580  |
| TOTAL | 27,167         | 1,974          | 9,532                            | 8,289            | 8,259           | 4,779              | 25,066              | 85,066 |

(Chapter 8, Appendix 2)

Table 5A-2 GROSS REVENUE BY THE PROJECT  
(CASE 2)

(In 1979 thousand US\$)

| Year  | Landing Charge | Housing Charge | Air Navigation Facilities Charge | Passenger Charge | Terminal Rental | Car Parking Charge | Fuel Service Charge | Total  |
|-------|----------------|----------------|----------------------------------|------------------|-----------------|--------------------|---------------------|--------|
| 1985  | 108            | 36             | 327                              | 103              | 79              | 93                 | 380                 | 1,126  |
| 6     | 299            | 36             | 358                              | 117              | 289             | 102                | 437                 | 1,638  |
| 7     | 364            | 36             | 385                              | 132              | 289             | 111                | 494                 | 1,811  |
| 8     | 475            | 51             | 385                              | 149              | 289             | 122                | 551                 | 2,022  |
| 9     | 581            | 61             | 378                              | 168              | 289             | 131                | 608                 | 2,216  |
| 1990  | 648            | 68             | 403                              | 190              | 289             | 143                | 665                 | 2,406  |
| 1     | 798            | 98             | 400                              | 213              | 289             | 154                | 749                 | 2,701  |
| 2     | 887            | 98             | 427                              | 239              | 289             | 166                | 829                 | 2,935  |
| 3     | 985            | 98             | 454                              | 268              | 289             | 180                | 910                 | 3,184  |
| 4     | 1,140          | 88             | 419                              | 300              | 289             | 195                | 992                 | 3,423  |
| 1995  | 1,247          | 101            | 383                              | 336              | 289             | 211                | 1,126               | 3,693  |
| 6     | 1,361          | 101            | 407                              | 373              | 529             | 227                | 1,251               | 4,249  |
| 7     | 1,496          | 107            | 435                              | 414              | 529             | 244                | 1,376               | 4,601  |
| 8     | 1,628          | 111            | 460                              | 459              | 529             | 262                | 1,500               | 4,949  |
| 9     | 1,728          | 111            | 481                              | 510              | 529             | 282                | 1,625               | 5,266  |
| 2000  | 1,881          | 119            | 511                              | 565              | 529             | 304                | 1,750               | 5,659  |
| 1     | 2,055          | 119            | 541                              | 622              | 529             | 324                | 1,907               | 6,097  |
| 2     | 2,199          | 130            | 562                              | 684              | 529             | 347                | 2,064               | 6,515  |
| 3     | 2,369          | 133            | 589                              | 753              | 529             | 371                | 2,220               | 6,964  |
| 4     | 2,539          | 133            | 616                              | 828              | 529             | 398                | 2,377               | 7,420  |
| 2005  | 2,676          | 139            | 641                              | 911              | 529             | 426                | 2,534               | 7,856  |
| TOTAL | 27,464         | 1,974          | 9,562                            | 8,334            | 8,259           | 4,793              | 26,345              | 86,731 |

Table 5A-3 CASH FLOW OF FINANCIAL COSTS AND REVENUE OF RIA  
WITH ASSUMPTION OF 2.5 TIMES AS CURRENT CHARGE

## CASE 1

| Year  | Costs                |                     | Revenue |         | Operation<br>Surplus | Cumulative<br>Balance |
|-------|----------------------|---------------------|---------|---------|----------------------|-----------------------|
|       | Construction<br>Cost | Maintenance<br>Cost | Total   | Revenue |                      |                       |
| 1980  | 13,667               |                     |         |         |                      | -13,667               |
| 1     | 13,667               |                     |         |         |                      | -27,334               |
| 2     | 13,667               |                     |         |         |                      | -41,001               |
| 3     | 13,667               |                     |         |         |                      | -54,668               |
| 4     | 13,667               |                     |         |         |                      | -68,335               |
| 1985  | 13,667               |                     | 151     |         | 151                  | -81,851               |
| 6     | 13,667               | 1,640               | 1,431   |         | -209                 | -95,727               |
| 7     |                      | 1,913               | 1,864   |         | -49                  | -95,777               |
| 8     |                      | 1,913               | 2,391   |         | 478                  | -95,298               |
| 9     | 6,450                | 1,913               | 2,876   |         | 963                  | -100,785              |
| 1990  | 6,450                | 1,913               | 3,351   |         | 1,438                | -105,797              |
| 1     | 6,450                | 1,913               | 4,089   |         | 2,176                | -110,071              |
| 2     | 6,450                | 1,913               | 4,674   |         | 2,761                | -113,760              |
| 3     | 6,450                | 1,913               | 5,296   |         | 3,383                | -116,827              |
| 4     | 6,450                | 1,913               | 5,894   |         | 3,981                | -119,296              |
| 1995  | 6,450                | 1,913               | 7,104   |         | 5,191                | -120,555              |
| 6     |                      | 2,816               | 7,852   |         | 5,036                | -115,519              |
| 7     |                      | 2,816               | 8,682   |         | 5,866                | -109,653              |
| 8     |                      | 2,816               | 9,514   |         | 6,698                | -102,955              |
| 9     |                      | 2,816               | 10,307  |         | 7,491                | -95,464               |
| 2000  |                      | 2,816               | 11,227  |         | 8,411                | -87,053               |
| 1     |                      | 2,816               | 12,259  |         | 9,443                | -77,610               |
| 2     |                      | 2,816               | 13,242  |         | 10,426               | -67,184               |
| 3     |                      | 2,816               | 14,297  |         | 11,481               | -55,703               |
| 4     |                      | 2,816               | 15,369  |         | 12,553               | -43,104               |
| 5     |                      | 2,816               | 16,389  |         | 13,573               | -29,577               |
| TOTAL | 140,819              | 47,017              | 158,259 |         | 111,340              | -29,577               |

Residual Value = 22,575

Net Loss = -7,002

Table 5A-4 CASH FLOW OF FINANCIAL COSTS AND REVENUE OF RIA  
WITH ASSUMPTION OF 2.5 TIMES AS CURRENT CHARGE

## CASE 2

| Year  | Costs                |                     | Revenue       |  | Operation<br>Surplus | Cumulative<br>Balance |
|-------|----------------------|---------------------|---------------|--|----------------------|-----------------------|
|       | Construction<br>Cost | Maintenance<br>Cost | Total Revenue |  |                      |                       |
| 1980  | 13,641               |                     |               |  |                      | -13,641               |
| 1     | 13,641               |                     |               |  |                      | -27,282               |
| 2     | 13,641               |                     |               |  |                      | -40,923               |
| 3     | 13,641               |                     |               |  |                      | -54,564               |
| 4     | 13,641               |                     |               |  |                      | -68,205               |
| 1985  | 13,641               |                     | 151           |  | 151                  | -81,695               |
| 6     | 13,641               | 1,637               | 1,431         |  | -206                 | -95,542               |
| 7     |                      | 1,910               | 1,864         |  | -46                  | -95,588               |
| 8     |                      | 1,910               | 2,391         |  | 481                  | -95,107               |
| 9     | 7,781                | 1,910               | 2,876         |  | 966                  | -101,922              |
| 1990  | 7,781                | 1,910               | 3,351         |  | 1,441                | -108,262              |
| 1     | 7,781                | 1,910               | 4,089         |  | 2,179                | -113,864              |
| 2     | 7,781                | 1,910               | 4,674         |  | 2,764                | -118,881              |
| 3     | 7,781                | 1,910               | 5,296         |  | 3,386                | -123,276              |
| 4     | 7,781                | 1,910               | 5,894         |  | 3,984                | -127,073              |
| 1995  | 7,781                | 1,910               | 7,272         |  | 5,362                | -129,492              |
| 6     |                      | 2,999               | 8,062         |  | 5,063                | -124,429              |
| 7     |                      | 2,999               | 8,942         |  | 5,943                | -118,486              |
| 8     |                      | 2,999               | 9,812         |  | 6,813                | -111,673              |
| 9     |                      | 2,999               | 10,604        |  | 7,605                | -104,068              |
| 2000  |                      | 2,999               | 11,587        |  | 8,588                | -95,480               |
| 1     |                      | 2,999               | 12,682        |  | 9,683                | -85,797               |
| 2     |                      | 2,999               | 13,727        |  | 10,728               | -75,069               |
| 3     |                      | 2,999               | 14,849        |  | 11,850               | -63,219               |
| 4     |                      | 2,999               | 15,989        |  | 12,990               | -50,229               |
| 2005  |                      | 2,999               | 17,079        |  | 14,080               | -36,149               |
| TOTAL | 149,954              | 48,817              | 162,622       |  | 113,805              | -36,149               |

Residual Value = 27,234

Net Loss = -8,915

APPENDIX 6A

ECONOMIC ANALYSIS DATA

[The page contains extremely faint and illegible text, likely due to low contrast or scanning quality. The text is organized into several paragraphs, but the individual words and sentences are not discernible.]



Table 6A-1 FORECASTS OF TOURISM INCOME, AIRPORT REVENUE  
AND FUEL REVENUE

(1,000 US\$)

| Year | Case 1            |                    |                 | Case 2            |                    |                 |
|------|-------------------|--------------------|-----------------|-------------------|--------------------|-----------------|
|      | Tourism<br>Income | Airport<br>Revenue | Fuel<br>Revenue | Tourism<br>Income | Airport<br>Revenue | Fuel<br>Revenue |
| 1985 | 5,927             | 142                | 1,668           | 5,927             | 142                | 1,668           |
| 1986 | 6,697             | 171                | 2,003           | 6,697             | 171                | 2,003           |
| 1987 | 7,574             | 198                | 2,338           | 7,574             | 198                | 2,338           |
| 1988 | 8,560             | 227                | 2,672           | 8,560             | 227                | 2,672           |
| 1989 | 9,667             | 255                | 3,007           | 9,667             | 255                | 3,007           |
| 1990 | 10,922            | 269                | 3,341           | 10,922            | 269                | 3,341           |
| 1991 | 12,232            | 330                | 3,877           | 12,232            | 330                | 3,877           |
| 1992 | 13,703            | 391                | 4,412           | 13,703            | 391                | 4,412           |
| 1993 | 15,350            | 453                | 4,948           | 15,350            | 453                | 4,948           |
| 1994 | 17,200            | 486                | 5,481           | 17,200            | 486                | 5,481           |
| 1995 | 19,130            | 546                | 6,266           | 19,265            | 534                | 6,017           |
| 1996 | 21,236            | 597                | 7,136           | 21,371            | 588                | 6,939           |
| 1997 | 23,599            | 646                | 8,005           | 23,734            | 639                | 7,860           |
| 1998 | 26,069            | 697                | 8,875           | 26,339            | 692                | 8,782           |
| 1999 | 28,972            | 742                | 10,003          | 29,242            | 729                | 9,704           |
| 2000 | 32,171            | 788                | 10,308          | 32,441            | 786                | 10,624          |
| 2001 | 35,411            | 928                | 11,811          | 35,681            | 927                | 12,228          |
| 2002 | 38,853            | 1,051              | 13,346          | 39,258            | 1,053              | 13,833          |
| 2003 | 42,634            | 1,176              | 14,859          | 43,174            | 1,177              | 15,436          |
| 2004 | 46,819            | 1,313              | 16,380          | 47,494            | 1,316              | 17,040          |
| 2005 | 51,571            | 1,429              | 17,096          | 52,246            | 1,454              | 18,644          |

Table 6A-2 VISITOR EXPENDITURES IN US\$ 1978

|                                    | <u>Total</u>  | <u>Per Diem Expenditures</u> | <u>Average Amount Spent per Visit</u> |
|------------------------------------|---------------|------------------------------|---------------------------------------|
| <u>South Asia</u>                  |               |                              |                                       |
| Sri Lanka                          | 55,800,000    | \$27                         | \$289                                 |
| <u>Southeast Asia</u>              |               |                              |                                       |
| Indonesia                          | 230,000,000   | 70                           | 491                                   |
| *Philippines                       | 624,781,000   | 79                           | 727                                   |
| Singapore                          | 443,180,000   | 60                           | 217                                   |
| Thailand                           | 400,000,000   | 57                           | 275                                   |
| Burma                              | 4,547,000     | 43                           | 208                                   |
| <u>East Asia</u>                   |               |                              |                                       |
| Republic of China                  | 608,000,000   | 71                           | 478                                   |
| Hong Kong                          | 996,520,000   | 124                          | 485                                   |
| *Japan                             | 1,230,652,000 | 106                          | 197                                   |
| Macau                              | 90,273,000    | 104                          | 167                                   |
| <u>Australia/New Zealand</u>       |               |                              |                                       |
| New Zealand                        | 165,700,000   | n.a.                         | 407                                   |
| <u>South &amp; Central Pacific</u> |               |                              |                                       |
| Cook Islands                       | 4,500,000     | 31                           | 262                                   |
| Guam                               | 110,000,000   | 124                          | 472                                   |
| *Micronesia                        | 2,400,000     | 35                           | 104                                   |
| New Hebrides                       | 11,000,000    | 43                           | 403                                   |
| Papua New Guinea                   | 20,534,582    | n.a.                         | 523                                   |
| *Tahiti                            | 59,650,000    | 87                           | 635                                   |
| Hawaii                             | 2,188,000,000 | 63                           | 596                                   |

\* Philippines, Figures derived from a limited visitor survey.

\* Japan, These expenditure figures based on surveys not bank figures

\* Micronesia. Visitor expenditures in Northern Marianas not included.

\* Tahiti. Total visitor expenditures derived by applying average amount per visit to the total number of visitor arrivals.

Source: PATA Annual Tourism Survey of National Tourist Offices.  
(except Burma)

Table 6A-3 AVERAGE LENGTH OF STAY (DAYS), 1978

|                                    | <u>Average</u> |
|------------------------------------|----------------|
| <u>South Asia</u>                  |                |
| Sri Lanka                          | 10.8           |
| <u>Southeast Asia</u>              |                |
| Indonesia                          | 7.0            |
| Philippines                        | 9.2            |
| Singapore                          | 3.6            |
| Thailand                           | 4.84           |
| Burma                              | 4.8            |
| <u>East Asia</u>                   |                |
| Republic of China                  | 6.75           |
| Hong Kong                          | 3.9            |
| Japan                              | 11.3           |
| Macau                              | 1.6            |
| <u>South &amp; Central Pacific</u> |                |
| Cook Islands                       | 8.4            |
| Guam                               | 3.8            |
| Micronesia                         | 3.0            |
| New Caledonia                      | 5.8            |
| New Hebrides                       | 9.3            |
| Tahiti                             | 7.3            |
| Hawaii                             | 9.5            |

Source: PATA Annual Tourism Survey of National  
Tourists Offices (except Burma)

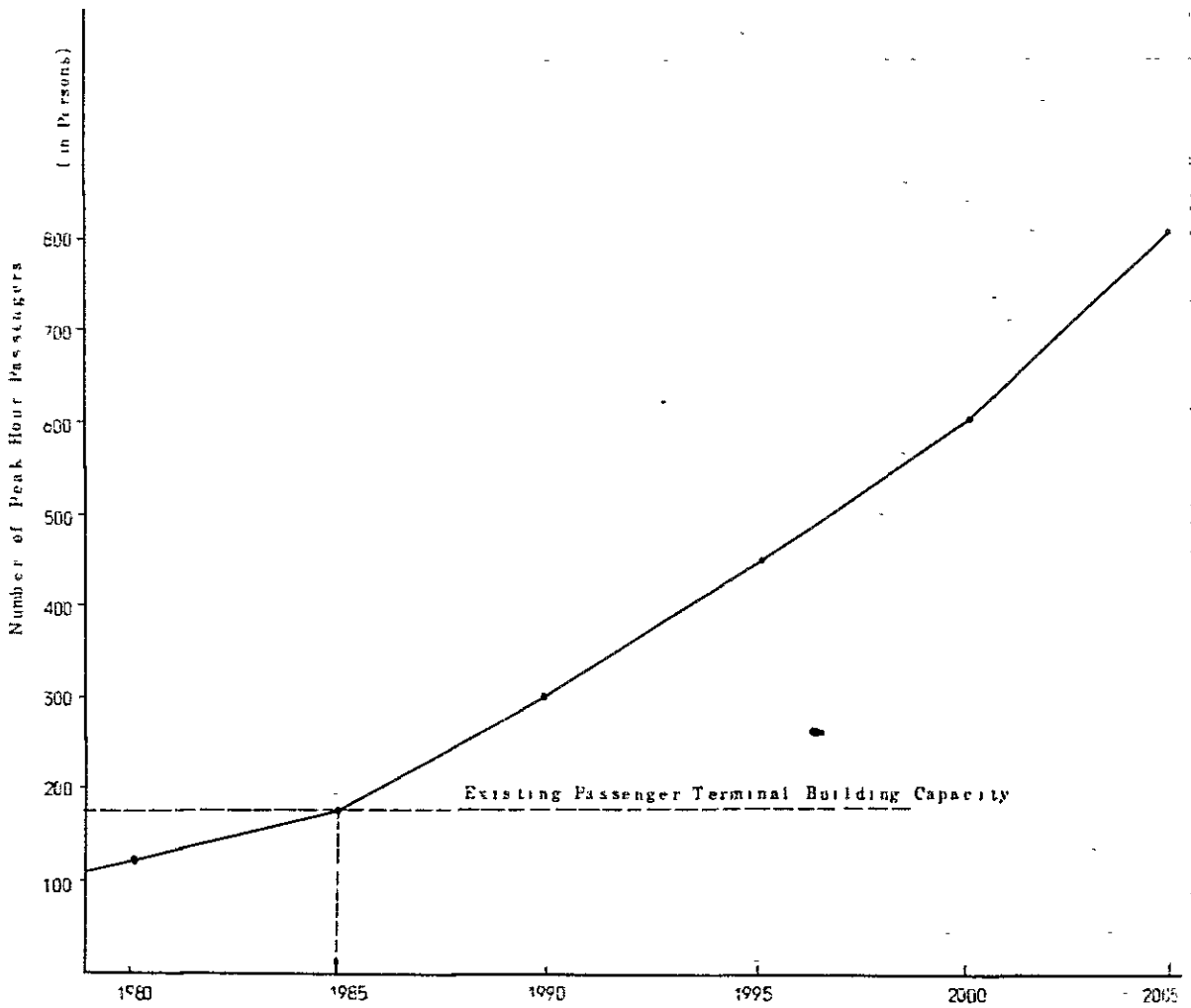


Fig 6A-1 THE FORECAST OF NUMBER OF PEAK HOUR PASSENGERS AT RANGOON INTERNATIONAL AIRPORT

Table 6A-4      HOURLY PROCESSING CAPACITY OF  
THE EXISTING PASSENGER TERMINAL  
BUILDING

|               | Area (Ft <sup>2</sup> ) | Hourly Processing Capacity<br>(Person/Hour) |
|---------------|-------------------------|---|
| International | 50,680                  | 186   |
| Domestic      | 24,700                  | 154   |

Table 6A-5      (CASE 1)

FORECASTS OF THE BASE CASE DEMAND AND  
OVERFLOWING PASSENGER TRAFFIC ACCOMMODATED  
AT RANGOON INTERNATIONAL AIRPORT

(In thousand persons)

| Year | Base Case Passenger Traffic |                       |       | Overflowing Passengers     |                       |       |
|------|-----------------------------|-----------------------|-------|----------------------------|-----------------------|-------|
|      | International<br>Passenger  | Domestic<br>Passenger | Total | International<br>Passenger | Domestic<br>Passenger | Total |
| 1985 | 193                         | 427                   | 620   | 0                          | 0                     | 0     |
| 1986 | 193                         | 427                   | 620   | 40                         | 35                    | 75    |
| 1987 | 193                         | 427                   | 620   | 82                         | 70                    | 152   |
| 1988 | 193                         | 427                   | 620   | 125                        | 104                   | 229   |
| 1989 | 193                         | 427                   | 620   | 171                        | 139                   | 310   |
| 1990 | 193                         | 427                   | 620   | 220                        | 173                   | 393   |
| 1991 | 193                         | 427                   | 620   | 278                        | 214                   | 492   |
| 1992 | 193                         | 427                   | 620   | 340                        | 254                   | 594   |
| 1993 | 193                         | 427                   | 620   | 405                        | 295                   | 700   |
| 1994 | 193                         | 427                   | 620   | 473                        | 337                   | 810   |
| 1995 | 193                         | 427                   | 620   | 534                        | 375                   | 909   |
| 1996 | 193                         | 427                   | 620   | 612                        | 420                   | 1,032 |
| 1997 | 193                         | 427                   | 620   | 697                        | 465                   | 1,162 |
| 1998 | 193                         | 427                   | 620   | 783                        | 509                   | 1,292 |
| 1999 | 193                         | 427                   | 620   | 877                        | 553                   | 1,430 |
| 2000 | 193                         | 427                   | 620   | 975                        | 597                   | 1,572 |
| 2001 | 193                         | 427                   | 620   | 1,081                      | 642                   | 1,723 |
| 2002 | 193                         | 427                   | 620   | 1,193                      | 687                   | 1,880 |
| 2003 | 193                         | 427                   | 620   | 1,312                      | 731                   | 2,043 |
| 2004 | 193                         | 427                   | 620   | 1,437                      | 775                   | 2,212 |
| 2005 | 193                         | 427                   | 620   | 1,571                      | 819                   | 2,390 |

Table 6A-6 (CASE 2)  
 FORECASTS OF THE BASE CASE DEMAND AND  
 OVERFLOWING PASSENGER TRAFFIC AT  
 RANGOON INTERNATIONAL AIRPORT

(In thousand persons)

| Year | Base Case Passenger Traffic |                    |       | Overflowing Passengers  |                    |       |
|------|-----------------------------|--------------------|-------|-------------------------|--------------------|-------|
|      | International Passenger     | Domestic Passenger | Total | International Passenger | Domestic Passenger | Total |
| 1985 | 193                         | 427                | 620   | 0                       | 0                  | 0     |
| 1986 | 193                         | 427                | 620   | 40                      | 35                 | 75    |
| 1987 | 193                         | 427                | 620   | 82                      | 70                 | 152   |
| 1988 | 193                         | 427                | 620   | 125                     | 104                | 229   |
| 1989 | 193                         | 427                | 620   | 171                     | 139                | 310   |
| 1990 | 193                         | 427                | 620   | 220                     | 173                | 393   |
| 1991 | 193                         | 427                | 620   | 278                     | 214                | 492   |
| 1992 | 193                         | 427                | 620   | 340                     | 254                | 594   |
| 1993 | 193                         | 427                | 620   | 405                     | 295                | 700   |
| 1994 | 193                         | 427                | 620   | 473                     | 337                | 810   |
| 1995 | 193                         | 427                | 620   | 545                     | 375                | 920   |
| 1996 | 193                         | 427                | 620   | 626                     | 420                | 1,046 |
| 1997 | 193                         | 427                | 620   | 713                     | 465                | 1,178 |
| 1998 | 193                         | 427                | 620   | 803                     | 509                | 1,312 |
| 1999 | 193                         | 427                | 620   | 899                     | 553                | 1,452 |
| 2000 | 193                         | 427                | 620   | 999                     | 597                | 1,596 |
| 2001 | 193                         | 427                | 620   | 1,110                   | 642                | 1,752 |
| 2002 | 193                         | 427                | 620   | 1,227                   | 687                | 1,914 |
| 2003 | 193                         | 427                | 620   | 1,349                   | 731                | 2,080 |
| 2004 | 193                         | 427                | 620   | 1,479                   | 775                | 2,254 |
| 2005 | 193                         | 427                | 620   | 1,616                   | 819                | 2,435 |

Table 6A-7 ESTIMATED CONSTRUCTION COST IN ECONOMIC COST CALCULATION  
CASE-1 Phase I

(In 1979 thousand US\$)

| Item              | Foreign Portion          |               |          | Local Portion             |         |           |          | Grand Total |
|-------------------|--------------------------|---------------|----------|---------------------------|---------|-----------|----------|-------------|
|                   | Foreign Goods & Services | Skilled Labor | Total    | Domestic Goods & Services | Labor   |           | Total    |             |
|                   |                          |               |          |                           | Skilled | Unskilled |          |             |
| Construction Cost | 4,0454.7                 | 3,535.4       | 43,990.1 | 19,262.3                  | 2,724.5 | 1,183.7   | 23,170.5 | 67,160.6    |
| Engineering       |                          |               | 4,399.0  |                           |         |           | 2,317.1  | 6,716.1     |
| Contingency       |                          |               | 4,399.0  |                           |         |           | 2,317.0  | 6,716.0     |
| Grand Total       |                          |               | 52,788.1 |                           |         |           | 27,804.6 | 80,592.7    |

Table 6A-8 ESTIMATED CONSTRUCTION COST IN ECONOMIC COST CALCULATION  
CASE-1 Phase II

(In 1979 thousand US\$)

| Item              | Foreign Portion          |               |          | Local Portion             |         |           | Grand Total |          |
|-------------------|--------------------------|---------------|----------|---------------------------|---------|-----------|-------------|----------|
|                   | Foreign Goods & Services | Skilled Labor | Total    | Domestic Goods & Services | Labor   |           |             | Total    |
|                   |                          |               |          |                           | Skilled | Unskilled |             |          |
| Construction Cost | 21,200.5                 | 2,635.4       | 23,835.9 | 5,513.2                   | 2,181.6 | 335.1     | 8,029.9     | 31,865.8 |
| Engineering       |                          |               | 2,383.6  |                           |         |           | 803.0       | 3,186.6  |
| Contingency       |                          |               | 2,383.4  |                           |         |           | 803.0       | 3,186.4  |
| Grand Total       |                          |               | 28,602.9 |                           |         |           | 9,635.9     | 38,238.8 |





Table 6A-10 ESTIMATED CONSTRUCTION COST IN ECONOMIC COST CALCULATION  
CASE-2 Phase II

(In 1979 thousand US\$)

| Item              | Foreign Portion          |               |          | Local portion             |         |           | Grand Total |          |          |
|-------------------|--------------------------|---------------|----------|---------------------------|---------|-----------|-------------|----------|----------|
|                   | Foreign Goods & Services | Skilled Labor | Total    | Domestic Goods & Services | Labor   |           |             |          |          |
|                   |                          |               |          |                           | Skilled | Unskilled |             |          |          |
| Construction Cost | 24,937.9                 | 2,711.2       | 27,649.1 | 7,817.8                   | 2,308.3 | 731.4     | 10,857.5    | 38,506.6 |          |
| Engineering       |                          |               | 2,764.9  |                           |         |           |             | 1,085.7  | 3,850.6  |
| Contingency       |                          |               | 2,765.0  |                           |         |           |             | 1,085.6  | 3,850.6  |
| Grand Total       |                          |               | 33,179.0 |                           |         |           |             | 13,028.8 | 46,207.8 |

The data in this table were prepared by the Economic Commission for Latin America and the Caribbean (ECLA) from the information provided by the countries concerned.

Table 6A-11 ESTIMATE BENEFITS OF SATISFIED TRIP DEMAND  
OF OVERFLOWING PASSENGERS

(In 1979 thousand dollars)

| Year | Benefits of overflowing<br>passengers forced to give<br>up their trips | Benefits of overflowing<br>passengers who continue<br>their trips by other traffics | Total  |
|------|--|---|--------|
| 1985 | 0  | 0   | 0      |
| 1986 | 55   | 109   | 164    |
| 1987 | 130  | 260   | 390    |
| 1988 | 230  | 459   | 689    |
| 1989 | 358  | 717   | 1,075  |
| 1990 | 518  | 1,036   | 1,554  |
| 1995 | 1,705  | 3,410   | 5,115  |
| 2000 | 3,453  | 6,905   | 10,358 |
| 2005 | 4,869  | 9,738   | 14,607 |

Table 6A-12 ESTIMATE OF TIME VALUE OF  
RESIDENT AIR PASSENGER

| Year | US\$ |
|------|------|
| 1978 | 0.5  |
| 1985 | 0.7  |
| 1990 | 0.9  |
| 1995 | 1.3  |
| 2000 | 1.7  |
| 2005 | 2.2  |

Table 6A-13. (CASE 1)  
FORECAST BENEFIT OF TIME SAVING  
BY DIRECT FLIGHT

(In thousand U.S.\$)

| Year | Time Saving Increment<br>by Direct Flight |
|------|---|
| 1985 | 0   |
| 1986 | 3   |
| 1987 | 8   |
| 1988 | 12  |
| 1989 | 18  |
| 1990 | 25  |
| 1995 | 86  |
| 2000 | 213                                       |
| 2005 | 475                                       |

Table 6A-14 (CASE 2)  
FORECAST BENEFIT OF TIME SAVING  
BY DIRECT FLIGHT

(In thousand U.S.\$)

| Year | Time Saving Increment<br>by Direct Flight |
|------|---|
| 1985 | 0   |
| 1986 | 3   |
| 1987 | 8   |
| 1988 | 12  |
| 1989 | 18  |
| 1990 | 25  |
| 1995 | 86  |
| 2000 | 215                                       |
| 2005 |   |

Table 6A-15 (CASE 1)  
FORECAST OF NET INCREASE IN TOURISM INCOME

(In thousand persons, thousand US\$)

| Year | Number of<br>Overflowing Visitor | Net Increase in<br>Tourist Income |
|------|----------------------------------|-----------------------------------|
| 1985 | 0                                | 0                                 |
| 1986 | 6                                | 770                               |
| 1987 | 12                               | 1,647                             |
| 1988 | 20                               | 2,633                             |
| 1989 | 28                               | 3,740                             |
| 1990 | 37                               | 4,995                             |
| 1995 | 98                               | 13,203                            |
| 2000 | 195                              | 26,244                            |
| 2005 | 338                              | 45,644                            |

Table 6A-16 (CASE 2)  
FORECAST OF NET INCREASE IN TOURISM INCOME

(In thousand persons, thousand US\$)

| Year | Number of<br>Overflowing Visitor | Net Increase in<br>Tourist Income |
|------|----------------------------------|-----------------------------------|
| 1985 | 0                                | 0                                 |
| 1986 | 6                                | 770                               |
| 1987 | 12                               | 1,647                             |
| 1988 | 20                               | 2,633                             |
| 1989 | 28                               | 3,740                             |
| 1990 | 37                               | 4,995                             |
| 1995 | 99                               | 13,338                            |
| 2000 | 197                              | 26,514                            |
| 2005 | 343                              | 46,319                            |

Table 6A-17 LANDING CHARGE BY TYPE OF AIRCRAFT AT RIA

(In U.S. Dollar)

| Type of Aircraft | Landing Charge |
|------------------|----------------|
| 360 Seater       | 473            |
| 250              | 473            |
| 170              | 473            |
| 120              | 189            |
| 60               | 32             |
| 40               | 32             |
| 20 non-jet       | 7              |

Table 6A-18 (CASE 1)  
FORECAST OF AIRPORT REVENUE INCREMENT  
BY FOREIGN AIRCRAFT

(In thousand U.S. Dollars)

| Year | Airport Revenue Increment<br>by Foreign Aircraft |
|------|--|
| 1985 | 0  |
| 1986 | 29   |
| 1987 | 56   |
| 1988 | 85   |
| 1989 | 113  |
| 1990 | 127  |
| 1995 | 404  |
| 2000 | 646  |
| 2005 | 1,287  |

Table 6A-19 (CASE 2)  
FORECAST OF AIRPORT REVENUE INCREMENT  
BY FOREIGN AIRCRAFT

(In thousand U.S. Dollars)

| Year | Airport Revenue Increment<br>by Foreign Aircraft |
|------|--|
| 1985 | 0  |
| 1986 | 29   |
| 1987 | 56   |
| 1988 | 85   |
| 1989 | 113  |
| 1990 | 127  |
| 1995 | 392  |
| 2000 | 644  |
| 2005 | 1,312  |

Table 6A-20 ESTIMATED FUEL CONSUMPTION BY  
TYPE OF AIRCRAFT BY ROUTE

(In 1,000 lbs.)

| Route          | 360 Seater | 250 Seater | 170 Seater | 120 Seater | 60 Seater |
|----------------|------------|------------|------------|------------|-----------|
| RGN - ROME     | 358.7      | 244.0      | 214.2      | 145.2      | 72.9      |
| - ATHENS       | 330.6      | 224.9      | 197.4      | 133.8      | 67.2      |
| - BAGHDAD      | 239.1      | 162.7      | 142.8      | 96.8       | 48.6      |
| - TEHRAN       | 196.9      | 134.0      | 117.6      | 79.7       | 40.0      |
| - KARACHI      | 119.6      | 81.3       | 71.4       | 48.4       | 24.3      |
| - DACCA        | 21.1       | 14.4       | 12.6       | 8.5        | 4.3       |
| - BOMBAY       | 98.5       | 67.0       | 58.8       | 39.9       | 20.0      |
| - CALCUTTA     | 21.1       | 14.4       | 12.6       | 8.5        | 4.3       |
| - DELHI        | 84.4       | 57.4       | 50.4       | 34.2       | 17.2      |
| - BANGKOK      | 14.1       | 9.6        | 8.4        | 5.7        | 2.9       |
| - SINGAPORE    | 91.4       | 62.2       | 54.6       | 37.0       | 18.6      |
| - KUALA LUMPUR | 77.4       | 52.6       | 46.2       | 31.3       | 15.7      |
| - JAKARTA      | 112.5      | 76.5       | 67.2       | 45.6       | 22.9      |
| - KUNGMIN      | 49.2       | 33.5       | 29.4       | 19.9       | 10.0      |
| - VIENTIANE    | 28.1       | 19.1       | 16.8       | 11.4       | 5.7       |
| - HONG KONG    | 84.4       | 57.4       | 50.4       | 34.2       | 17.2      |
| - MANILA       | 133.6      | 90.9       | 79.8       | 54.1       | 27.2      |
| - TOKYO        | 246.2      | 167.4      | 147.0      | 99.7       | 50.1      |



Table 6A-21 (CASE 1)  
FORECAST OF FUEL SUPPLY REVENUE INCREMENT  
BY FOREIGN AIRCRAFT

(In thousand US\$)

| Year | Fuel Supply Revenue Increment<br>by Foreign Aircraft |
|------|--|
| 1985 | 335  |
| 1986 | 670  |
| 1987 | 1,004  |
| 1988 | 1,339  |
| 1989 | 1,673  |
| 1990 | 2,209  |
| 1995 | 4,597  |
| 2000 | 8,640  |
| 2005 | 15,428   |

Table 6A-22 (CASE 2)  
FORECAST OF FUEL SUPPLY REVENUE INCREMENT  
BY FOREIGN AIRCRAFT

(In thousand US\$)

| Year | Fuel Supply Revenue Increment<br>by Foreign Aircraft |
|------|--|
| 1985 | 0  |
| 1986 | 335  |
| 1987 | 670  |
| 1988 | 1,004  |
| 1989 | 1,339  |
| 1990 | 1,673  |
| 1995 | 4,349  |
| 2000 | 8,956  |
| 2005 | 16,976   |

Table 6A-23 ESTIMATED SAVED MAINTENANCE  
COST OF EXISTING FACILITIES

(In 1979 thousand US\$)

|                   | 1985-1994 | 1995-2005 |
|-------------------|-----------|-----------|
| Equipment & Tools | 3         | 3         |
| Buildings         | -         | 95        |
| Road              | 8         | 16        |
| Others            | 140       | 140       |
| Total             | 151       | 254       |

Table 6A-24 (Case 1) CASH FLOW OF ECONOMIC COSTS AND BENEFITS OF RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT

| Year  | Costs             |                              | Benefits    |                                   |  |   |                           |                                 |                                |   |   |  | Total Costs | Total Benefits | Discounted Cash Flow at 10% |         |
|-------|-------------------|------------------------------|-------------|-----------------------------------|--|---|---------------------------|---------------------------------|--------------------------------|---|---|--|-------------|----------------|-----------------------------|---------|
|       | Construction Cost | Maintenance & Operation Cost | Total Costs | Benefits of Overflying Passengers |  | Benefits of Passengers forced to give up Their Trip | Benefits of Other Traffic | Time Saving Increment by Direct | Net Increase in Tourism Income | Airport Reverse Increment by Foreign Aircraft | Fuel Supply Revenue Increment by Foreign Aircraft | Solved Maintenance Cost of Existing Facilities |             |                |                             |         |
|       |                   |                              |             | Overflying Passengers             | Passengers who continue Their Trips by |   |                           |                                 |                                |   |   |  |             |                |                             |         |
| 1980  | 11,513            | 0                            | 11,513      | 0                                 | 0                                      | 0   | 0                         | 0                               | 0                              | 0   | 0   | 0  | 0           | 0              | 10,466                      | 0       |
| 1981  | 11,513            | 0                            | 11,513      | 0                                 | 0                                      | 0   | 0                         | 0                               | 0                              | 0   | 0   | 0  | 0           | 0              | 9,515                       | 0       |
| 1982  | 11,513            | 0                            | 11,513      | 0                                 | 0                                      | 0   | 0                         | 0                               | 0                              | 0   | 0   | 0  | 0           | 0              | 8,650                       | 0       |
| 1983  | 11,513            | 0                            | 11,513      | 0                                 | 0                                      | 0   | 0                         | 0                               | 0                              | 0   | 0   | 0  | 0           | 0              | 7,864                       | 0       |
| 1984  | 11,513            | 0                            | 11,513      | 0                                 | 0                                      | 0   | 0                         | 0                               | 0                              | 0   | 0   | 0  | 0           | 0              | 7,149                       | 0       |
| 1985  | 11,513            | 0                            | 11,513      | 0                                 | 0                                      | 0   | 0                         | 0                               | 0                              | 0   | 0   | 151  | 151         | 151            | 6,499                       | 85      |
| 1986  | 11,513            | 1,382                        | 12,895      | 55                                | 109                                    | 0   | 3                         | 1,013                           | 29                             | 335   | 0   | 151  | 1,695       | 1,695          | 6,617                       | 869     |
| 1987  | 0                 | 1,612                        | 1,612       | 130                               | 260                                    | 0   | 8                         | 2,254                           | 56                             | 670   | 0   | 151  | 3,529       | 3,529          | 752                         | 1,646   |
| 1988  | 0                 | 1,612                        | 1,612       | 230                               | 459                                    | 0   | 12                        | 3,747                           | 85                             | 1,004   | 0   | 151  | 5,688       | 5,688          | 684                         | 2,412   |
| 1989  | 5,463             | 1,612                        | 7,075       | 358                               | 717                                    | 0   | 18                        | 5,536                           | 113                            | 1,339   | 0   | 151  | 8,232       | 8,232          | 2,728                       | 3,173   |
| 1990  | 5,463             | 1,612                        | 7,075       | 518                               | 1,036                                  | 0   | 25                        | 7,689                           | 127                            | 1,673   | 0   | 151  | 11,219      | 11,219         | 2,480                       | 3,932   |
| 1991  | 5,463             | 1,612                        | 7,075       | 689                               | 1,378                                  | 0   | 34                        | 10,094                          | 188                            | 2,209   | 0   | 151  | 14,743      | 14,743         | 2,254                       | 4,697   |
| 1992  | 5,463             | 1,612                        | 7,075       | 891                               | 1,783                                  | 0   | 43                        | 12,947                          | 249                            | 2,744   | 0   | 151  | 18,808      | 18,808         | 2,049                       | 5,448   |
| 1993  | 5,463             | 1,612                        | 7,075       | 1,126                             | 2,253                                  | 0   | 55                        | 16,317                          | 311                            | 3,280   | 0   | 151  | 23,493      | 23,493         | 1,863                       | 6,186   |
| 1994  | 5,463             | 1,612                        | 7,075       | 1,397                             | 2,794                                  | 0   | 69                        | 20,302                          | 344                            | 3,813   | 0   | 151  | 28,870      | 28,870         | 1,694                       | 6,911   |
| 1995  | 5,463             | 1,612                        | 7,075       | 1,705                             | 3,410                                  | 0   | 86                        | 24,728                          | 404                            | 4,597   | 0   | 151  | 35,184      | 35,184         | 1,540                       | 7,657   |
| 1996  | 0                 | 2,377                        | 2,377       | 2,003                             | 4,006                                  | 0   | 104                       | 29,820                          | 455                            | 5,468   | 0   | 254  | 42,110      | 42,110         | 470                         | 8,331   |
| 1997  | 0                 | 2,377                        | 2,377       | 2,329                             | 4,657                                  | 0   | 126                       | 35,800                          | 504                            | 6,337   | 0   | 254  | 50,007      | 50,007         | 428                         | 8,994   |
| 1998  | 0                 | 2,377                        | 2,377       | 2,681                             | 5,363                                  | 0   | 149                       | 42,436                          | 555                            | 7,207   | 0   | 254  | 58,645      | 58,645         | 389                         | 9,588   |
| 1999  | 0                 | 2,377                        | 2,377       | 3,056                             | 6,111                                  | 0   | 178                       | 50,694                          | 600                            | 8,335   | 0   | 254  | 69,028      | 69,028         | 353                         | 10,160  |
| 2000  | 0                 | 2,377                        | 2,377       | 3,453                             | 6,905                                  | 0   | 213                       | 59,803                          | 646                            | 8,640   | 0   | 254  | 79,914      | 79,914         | 321                         | 10,798  |
| 2001  | 0                 | 2,377                        | 2,377       | 3,779                             | 7,559                                  | 0   | 251                       | 69,874                          | 786                            | 10,143  | 0   | 254  | 92,646      | 92,646         | 292                         | 11,381  |
| 2002  | 0                 | 2,377                        | 2,377       | 4,096                             | 8,192                                  | 0   | 295                       | 81,153                          | 909                            | 11,678  | 0   | 254  | 106,577     | 106,577        | 266                         | 11,902  |
| 2003  | 0                 | 2,377                        | 2,377       | 4,393                             | 8,787                                  | 0   | 348                       | 94,091                          | 1,034                          | 13,191  | 0   | 254  | 122,098     | 122,098        | 241                         | 12,396  |
| 2004  | 0                 | 2,377                        | 2,377       | 4,658                             | 9,316                                  | 0   | 405                       | 109,011                         | 1,171                          | 14,712  | 0   | 254  | 139,527     | 139,527        | 219                         | 12,877  |
| 2005  | 0                 | 2,377                        | 2,377       | 4,869                             | 9,738                                  | 0   | 475                       | 126,546                         | 1,287                          | 15,428  | 0   | 254  | 158,597     | 158,597        | 199                         | 13,307  |
| Total | 118,832           | 39,660                       | 158,492     | 42,416                            | 84,833                                 | 0   | 2,897                     | 803,655                         | 9,853                          | 122,803                                       | 0   | 4,304  | 1,070,761   | 1,070,761      | 75,982                      | 152,850 |

Economic Internal Rate of Return (EIRR) = 16.1% Residual Value = 19,121, Net Present Value = 78,481  
 Profitability Index = 2.055, Pay Back Period = 20 (years)

Table 6A-25 (Case 2) CASH FLOW OF ECONOMIC COSTS AND BENEFITS OF KANGKON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT

(In 1979 thousand US\$)

| Year  | Costs             |                              | Benefits    |  |   |                                 |                                |   |   |   |                |       | Total Benefits | Total Costs | Total Benefits | Discounted Cash Flow at 10% |
|-------|-------------------|------------------------------|-------------|--|---|---------------------------------|--------------------------------|---|---|---|----------------|-------|----------------|-------------|----------------|-----------------------------|
|       | Construction Cost | Maintenance & Operation Cost | Total Costs | Benefits of Overflying Passengers forced to give up Their Trip by Their Trip Other Traffic | Benefits of Overflying Passengers who continue Their Trips by | Time Saving Increment by Direct | Net Increase in Tourism Income | Airport Reverse Increment by Foreign Aircraft | Fuel Supply Revenue Increment by Foreign Aircraft | Saved Maintenance Cost of Existing Facilities | Total Benefits |       |                |             |                |                             |
| 1980  | 11,487            | 0                            | 11,487      | 0  | 0   | 0                               | 0                              | 0   | 0   | 0   | 0              | 0     | 0              | 10,443      | 0              | 0                           |
| 1981  | 11,487            | 0                            | 11,487      | 0  | 0   | 0                               | 0                              | 0   | 0   | 0   | 0              | 0     | 0              | 9,493       | 0              | 0                           |
| 1982  | 11,487            | 0                            | 11,487      | 0  | 0   | 0                               | 0                              | 0   | 0   | 0   | 0              | 0     | 0              | 8,630       | 0              | 0                           |
| 1983  | 11,487            | 0                            | 11,487      | 0  | 0   | 0                               | 0                              | 0   | 0   | 0   | 0              | 0     | 0              | 7,846       | 0              | 0                           |
| 1984  | 11,487            | 0                            | 11,487      | 0  | 0   | 0                               | 0                              | 0   | 0   | 0   | 0              | 0     | 0              | 7,133       | 0              | 0                           |
| 1985  | 11,487            | 0                            | 11,487      | 0  | 0   | 0                               | 0                              | 0   | 0   | 0   | 0              | 0     | 0              | 6,484       | 85             | 85                          |
| 1986  | 11,487            | 1,378                        | 12,865      | 55   | 109   | 3                               | 1,013                          | 29  | 335   | 151   | 1,695          | 151   | 151            | 6,602       | 869            | 869                         |
| 1987  | 0                 | 1,608                        | 1,608       | 130  | 260   | 8                               | 2,254                          | 56  | 670   | 151   | 3,529          | 151   | 151            | 750         | 1,646          | 1,646                       |
| 1988  | 0                 | 1,608                        | 1,608       | 230  | 459   | 12                              | 3,747                          | 85  | 1,004   | 151   | 5,688          | 151   | 151            | 682         | 2,412          | 2,412                       |
| 1989  | 6,601             | 1,608                        | 8,209       | 358  | 717   | 18                              | 5,536                          | 113   | 1,339   | 151   | 8,232          | 151   | 151            | 3,165       | 3,173          | 3,173                       |
| 1990  | 6,601             | 1,608                        | 8,209       | 518  | 1,036   | 25                              | 7,689                          | 127   | 1,673   | 151   | 11,219         | 151   | 151            | 2,877       | 3,932          | 3,932                       |
| 1991  | 6,601             | 1,608                        | 8,209       | 689  | 1,378   | 34                              | 10,094                         | 188   | 2,209   | 151   | 14,743         | 151   | 151            | 2,616       | 4,697          | 4,697                       |
| 1992  | 6,601             | 1,608                        | 8,209       | 891  | 1,783   | 43                              | 12,947                         | 249   | 2,764   | 151   | 18,808         | 151   | 151            | 2,378       | 5,448          | 5,448                       |
| 1993  | 6,601             | 1,608                        | 8,209       | 1,126  | 2,253   | 55                              | 16,317                         | 311   | 3,280   | 151   | 23,493         | 151   | 151            | 2,162       | 6,186          | 6,186                       |
| 1994  | 6,601             | 1,608                        | 8,209       | 1,397  | 2,794   | 69                              | 20,302                         | 344   | 3,813   | 151   | 28,870         | 151   | 151            | 1,965       | 6,911          | 6,911                       |
| 1995  | 6,601             | 1,608                        | 8,209       | 1,705  | 3,410   | 86                              | 24,981                         | 392   | 4,349   | 254   | 35,177         | 254   | 254            | 1,787       | 7,655          | 7,655                       |
| 1996  | 0                 | 2,532                        | 2,532       | 2,003  | 4,006   | 104                             | 30,083                         | 446   | 5,271   | 254   | 42,167         | 254   | 254            | 501         | 8,342          | 8,342                       |
| 1997  | 0                 | 2,532                        | 2,532       | 2,329  | 4,657   | 126                             | 36,073                         | 497   | 6,192   | 254   | 50,128         | 254   | 254            | 455         | 9,015          | 9,015                       |
| 1998  | 0                 | 2,532                        | 2,532       | 2,681  | 5,363   | 151                             | 43,005                         | 550   | 7,114   | 254   | 59,118         | 254   | 254            | 414         | 9,666          | 9,666                       |
| 1999  | 0                 | 2,532                        | 2,532       | 3,056  | 6,111   | 180                             | 51,086                         | 587   | 8,036   | 254   | 69,310         | 254   | 254            | 376         | 10,302         | 10,302                      |
| 2000  | 0                 | 2,532                        | 2,532       | 3,453  | 6,905   | 215                             | 60,419                         | 644   | 8,956   | 254   | 80,846         | 254   | 254            | 342         | 10,924         | 10,924                      |
| 2001  | 0                 | 2,532                        | 2,532       | 3,779  | 7,559   | 254                             | 70,514                         | 785   | 10,560  | 254   | 93,705         | 254   | 254            | 311         | 11,511         | 11,511                      |
| 2002  | 0                 | 2,532                        | 2,532       | 4,096  | 8,192   | 298                             | 82,151                         | 911   | 12,165  | 254   | 108,067        | 254   | 254            | 283         | 12,068         | 12,068                      |
| 2003  | 0                 | 2,532                        | 2,532       | 4,393  | 8,787   | 351                             | 95,475                         | 1,035   | 13,768  | 254   | 124,063        | 254   | 254            | 257         | 12,595         | 12,595                      |
| 2004  | 0                 | 2,532                        | 2,532       | 4,658  | 9,316   | 412                             | 110,810                        | 1,174   | 15,372  | 254   | 141,996        | 254   | 254            | 234         | 13,105         | 13,105                      |
| 2005  | 0                 | 2,532                        | 2,532       | 4,869  | 9,738   | 482                             | 128,418                        | 1,312   | 16,976  | 254   | 162,049        | 254   | 254            | 212         | 13,596         | 13,596                      |
| Total | 126,616           | 41,170                       | 167,786     | 42,416   | 84,833  | 2,926                           | 812,914                        | 9,835   | 125,826   | 4,304   | 1,083,054      | 4,304 | 4,304          | 78,398      | 154,138        | 154,138                     |

Appendix 6A-2

Economic Internal Rate of Return (EIRR) = 16.0%      Residual Value = 23,104,      Net Present Value = 77,689  
 Profitability Index = 2.016,      Pay Back Period = 20 (years)

APPENDIX 7A

DRAWINGS OF AIRPORT FACILITY PLAN

SOCIALIST REPUBLIC  
OF  
THE UNION OF BURMA  
RANGOON INTERNATIONAL AIRPORT DEVELOPMENT  
FEASIBILITY STUDY

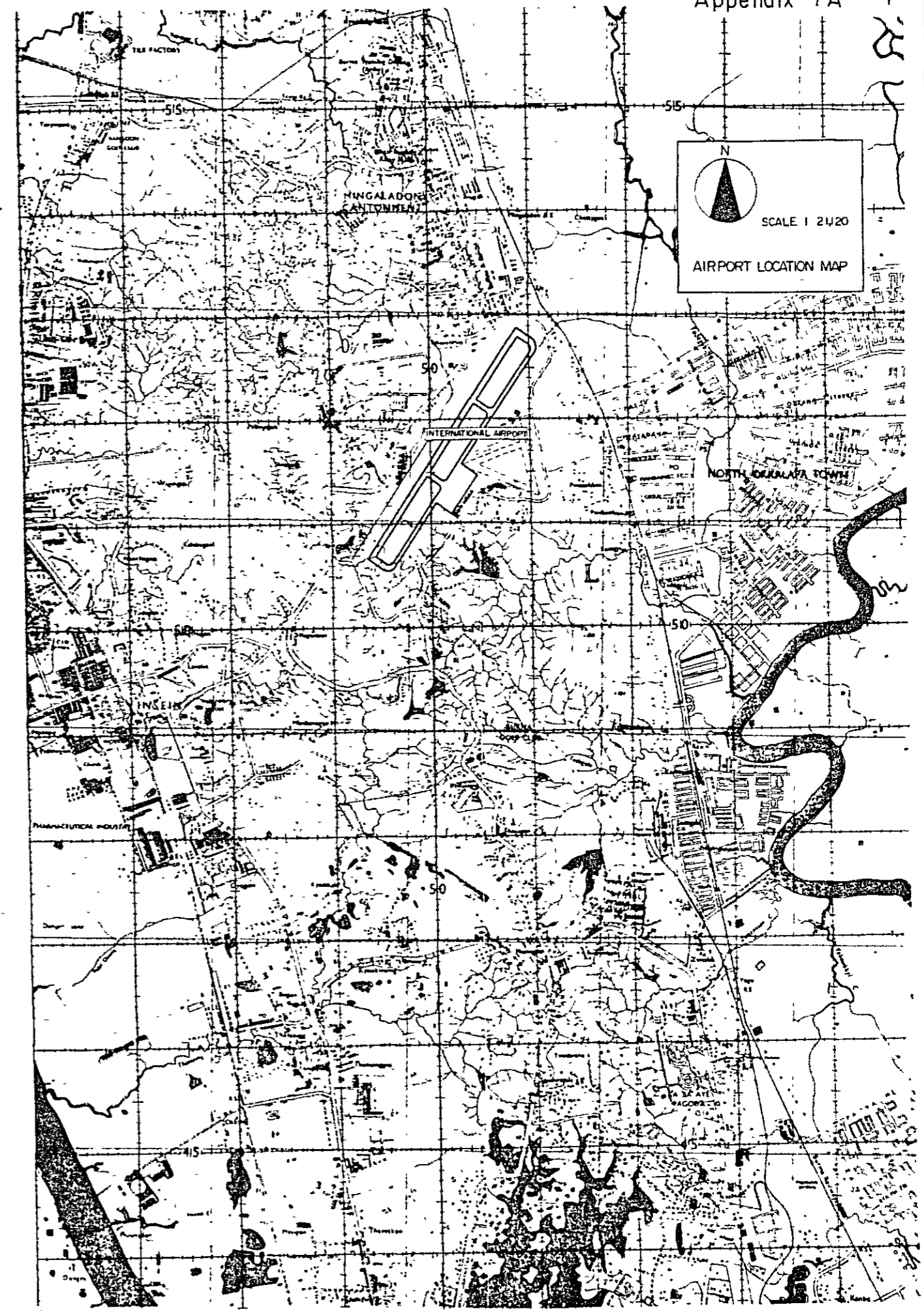
## FACILITY PLAN DRAWINGS

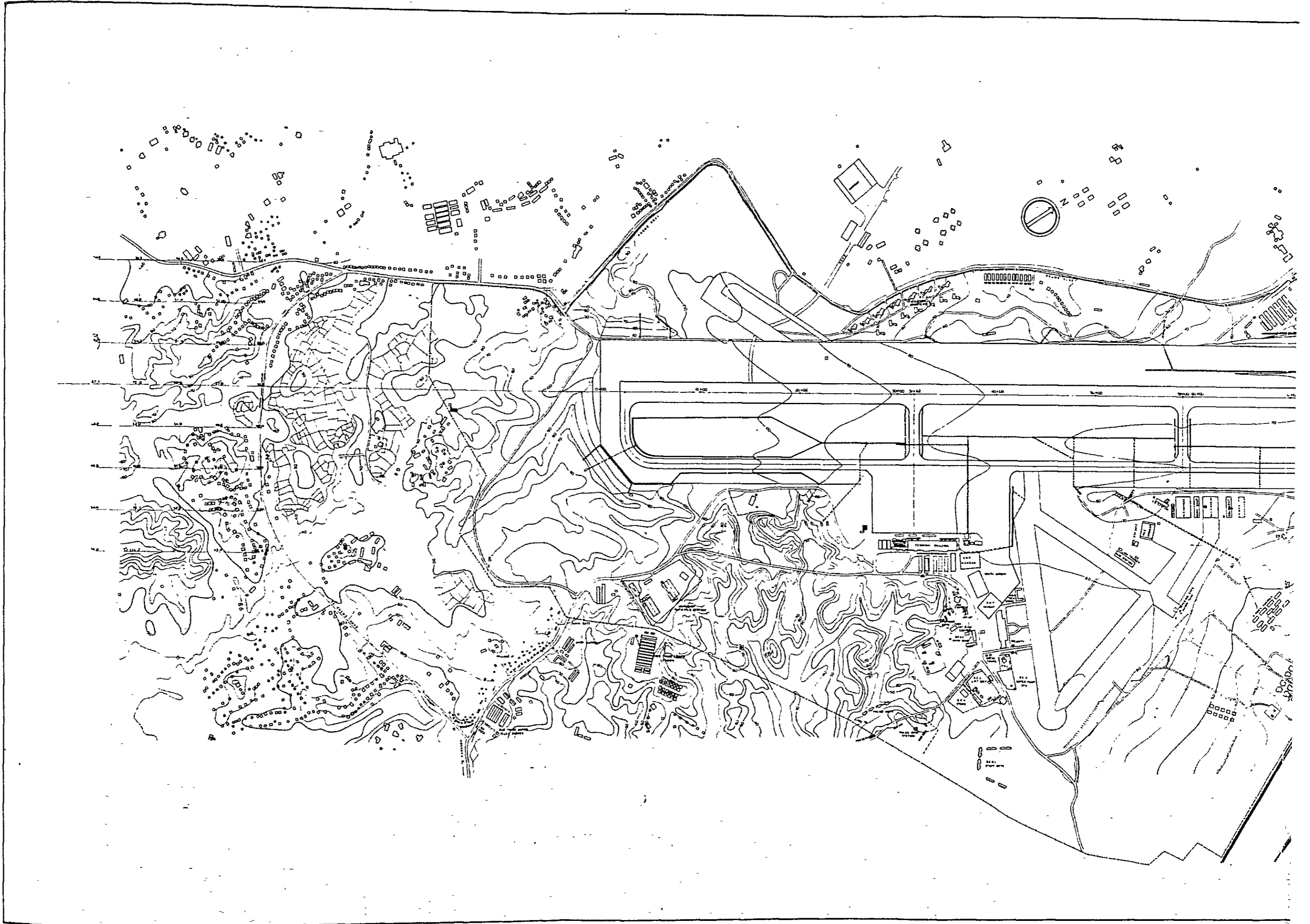
MARCH 1980

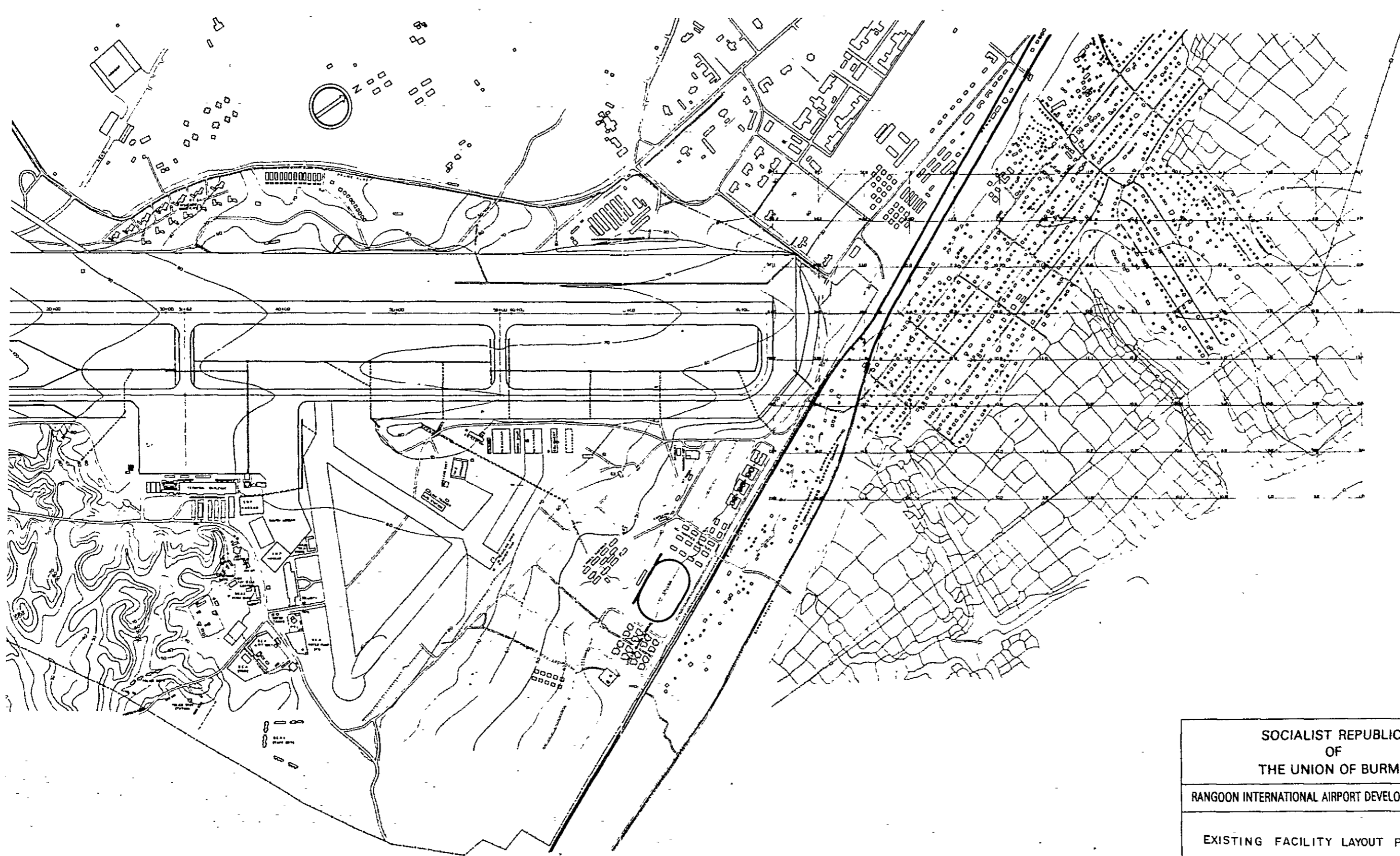
JAPAN INTERNATIONAL COOPERATION AGENCY  
LISTS OF FACILITY PLAN DRAWINGS

DRAWING NUMBER

- |  |   |
|--|---|
| 1 EXISTING FACILITY LAYOUT PLAN                                  | 20 PASSENGER & BAGGAGE TRAFFIC FLOW<br>1ST FLOOR PLAN PHASE I   |
| 2 AIRPORT LAYOUT PLAN CASE-1                                     | 21 CONTROL TOWER & OPERATIONAL<br>MAIN POWER SUBSTATION & FIRE FIGHTING &<br>RESCUE STATION BUILDINGS |
| 3 AIRPORT LAYOUT PLAN CASE-2                                     | 22 TERMINAL AREA LAYOUT PLAN PHASE II   |
| 4 AIRPORT BASIC DIMENSIONS CASE-1                                | 23 PASSENGER TERMINAL BUILDINGS<br>ELEVATION SECTION PHASE II   |
| 5 AIRPORT BASIC DIMENSIONS CASE-2                                | 24 PASSENGER TERMINAL BUILDINGS<br>GROUND FLOOR PLAN PHASE II   |
| 6 RUNWAY PROFILE   | 25 PASSENGER TERMINAL BUILDINGS<br>1ST FLOOR PLAN PHASE II  |
| 7 TAXIWAY PROFILE  | 26 PASSENGER TERMINAL BUILDINGS<br>2ND FLOOR PLAN PHASE II  |
| 8 TYPICAL CROSS SECTION  | 27 PASSENGER & BAGGAGE TRAFFIC FLOW<br>GROUND FLOOR PLAN PHASE II                                     |
| 9 CROSS SECTION - 1  | 28 PASSENGER & BAGGAGE TRAFFIC FLOW<br>1ST FLOOR PLAN PHASE II  |
| 10 CROSS SECTION - 2   | 29 INTERNATIONAL & DOMESTIC CARGO BUILDING,<br>GSE & CATERING BUILDINGS                               |
| 11 PAVEMENT (NEW CONSTRUCTION)                                   | 30 AIRFIELD LIGHTING LAYOUT CASE-1  |
| 12 PAVEMENT (OVERLAYS)   | 31 AIRFIELD LIGHTING LAYOUT CASE-2  |
| 13 TYPICAL CROSS SECTION OF<br>RAILWAY & ROAD & CULVERT          | 32 INSTALLATION CONCEPT - 1   |
| 14 TERMINAL AREA LAYOUT PLAN PHASE I                             | 33 INSTALLATION CONCEPT - 2   |
| 15 PASSENGER TERMINAL BUILDINGS<br>ELEVATION SECTION PHASE I     | 34 ELECTRIC POWER SUPPLY CONNECTION DIAGRAM   |
| 16 PASSENGER TERMINAL BUILDINGS<br>GROUND FLOOR PLAN PHASE I     | 35 ELECTRIC POWER SUPPLY DISTRIBUTION SYSTEM  |
| 17 PASSENGER TERMINAL BUILDINGS<br>1ST FLOOR PLAN PHASE I        | 36 RADIO NAV-AIDS TELECOMMUNICATION &<br>METEOROLOGICAL SYSTEMS                                       |
| 18 PASSENGER TERMINAL BUILDINGS<br>2ND FLOOR PLAN PHASE I        |   |
| 19 PASSENGER & BAGGAGE TRAFFIC FLOW<br>GROUND FLOOR PLAN PHASE I |   |



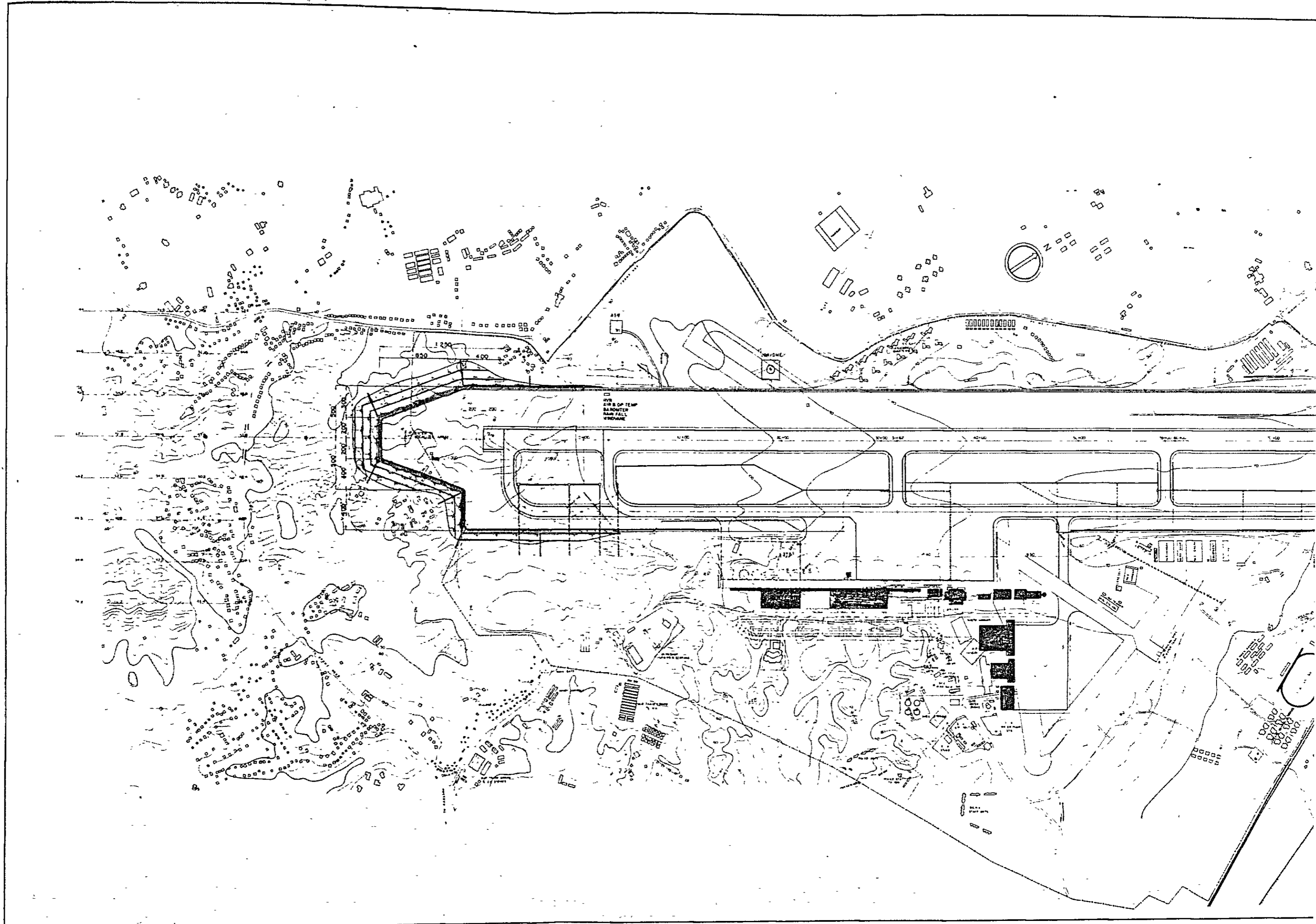




|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| EXISTING FACILITY LAYOUT PLAN                     | MAR 1980 |
| FEASIBILITY STUDY                                 | 1        |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |

Fig 3 - 4

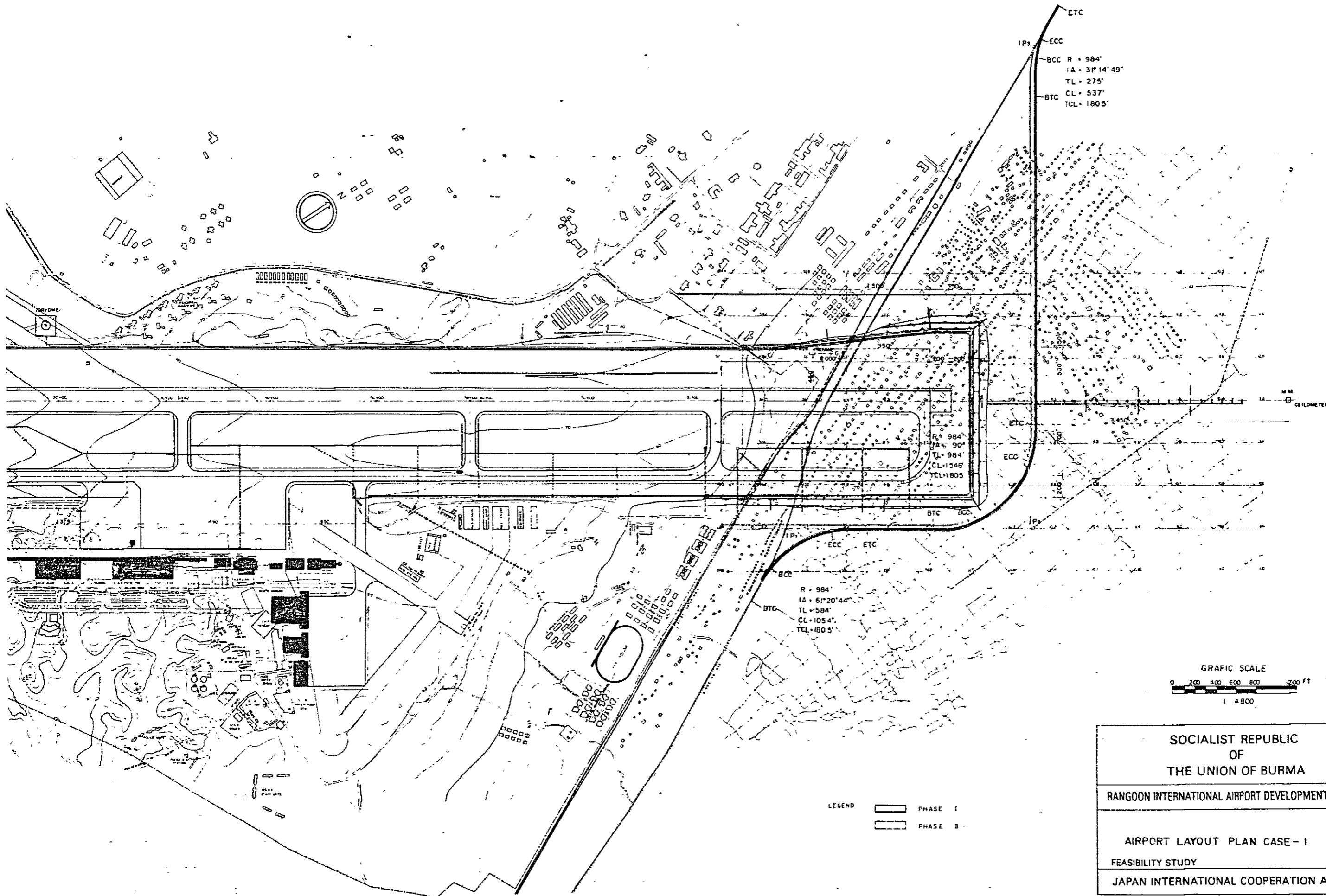




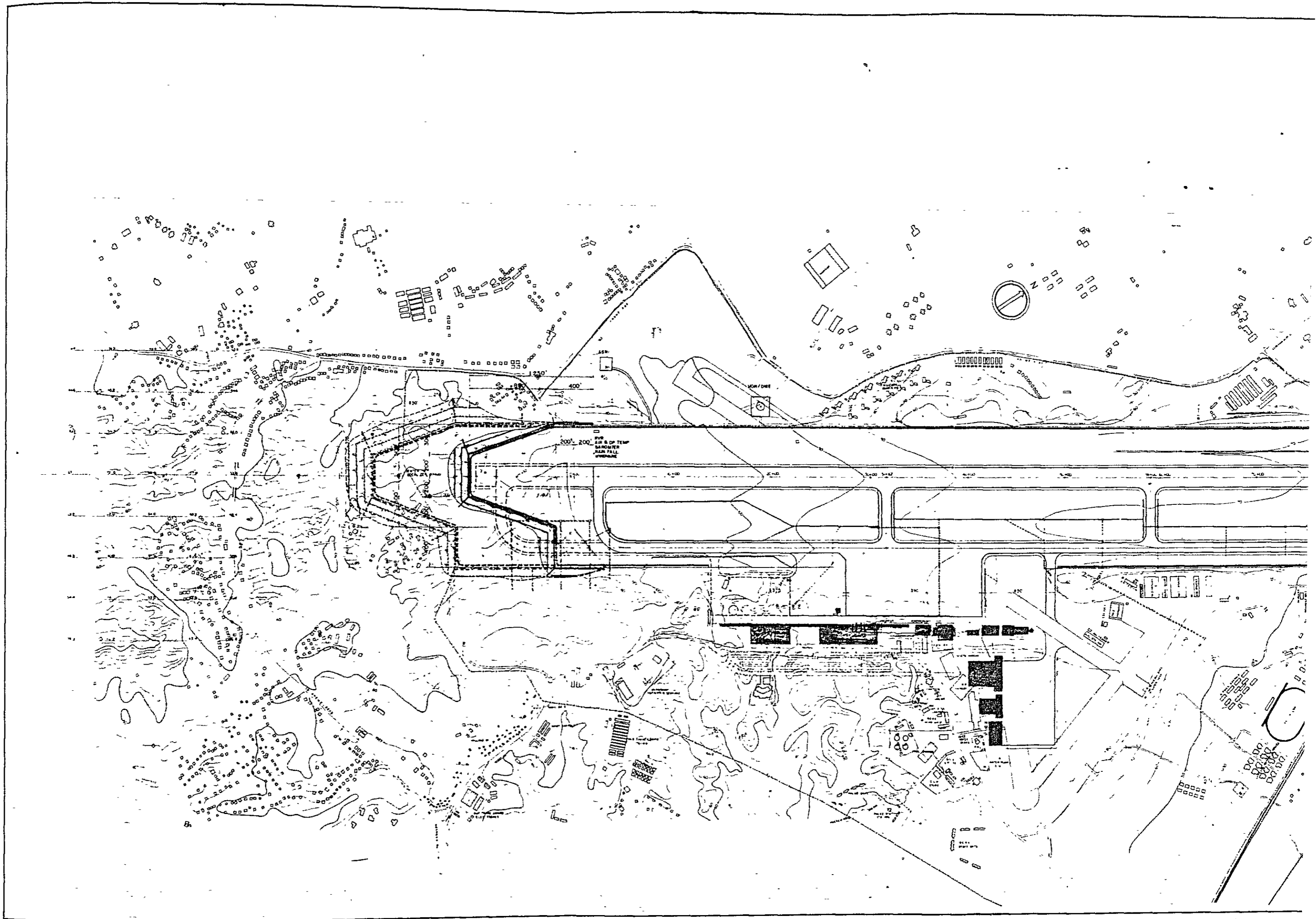
TYPE OF TEMP  
BAROMETER  
RAIN FALL  
WINDSPEED

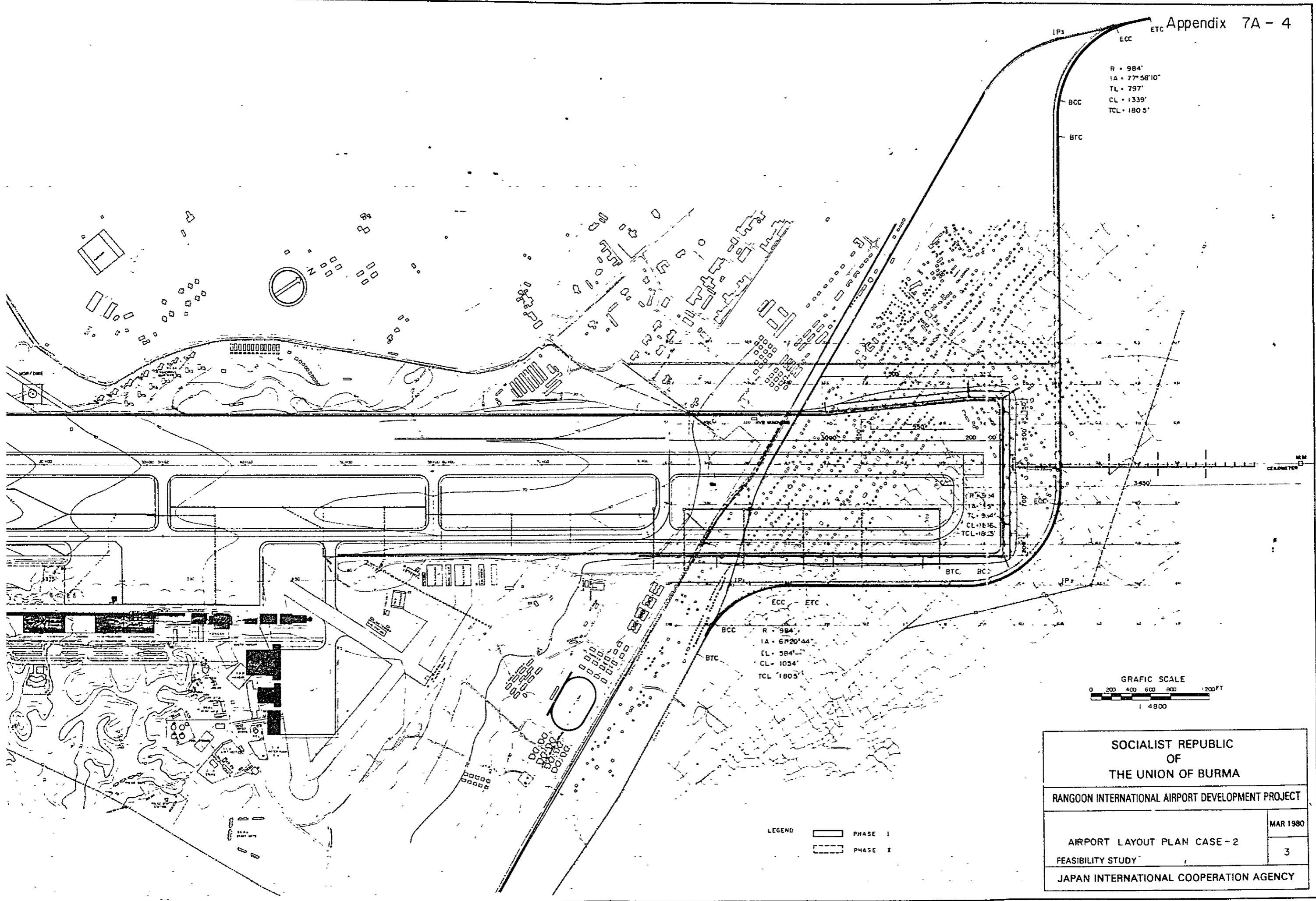
1200  
800

200  
100  
50  
0



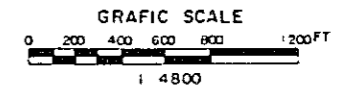
|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| AIRPORT LAYOUT PLAN CASE - 1                      | MAR 1980 |
| FEASIBILITY STUDY                                 | 2        |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |





R = 984'  
 IA = 77°58'10"  
 TL = 797'  
 CL = 1339'  
 TCL = 1805'

ECC ETC  
 BCC  
 BTC  
 R = 984'  
 IA = 6°20'44"  
 TL = 584'  
 CL = 1054'  
 TCL = 1805'



LEGEND  
 [Solid line] PHASE I  
 [Dashed line] PHASE II

|   |               |
|---|---------------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |               |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |               |
| AIRPORT LAYOUT PLAN CASE - 2<br>FEASIBILITY STUDY | MAR 1980<br>3 |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |               |



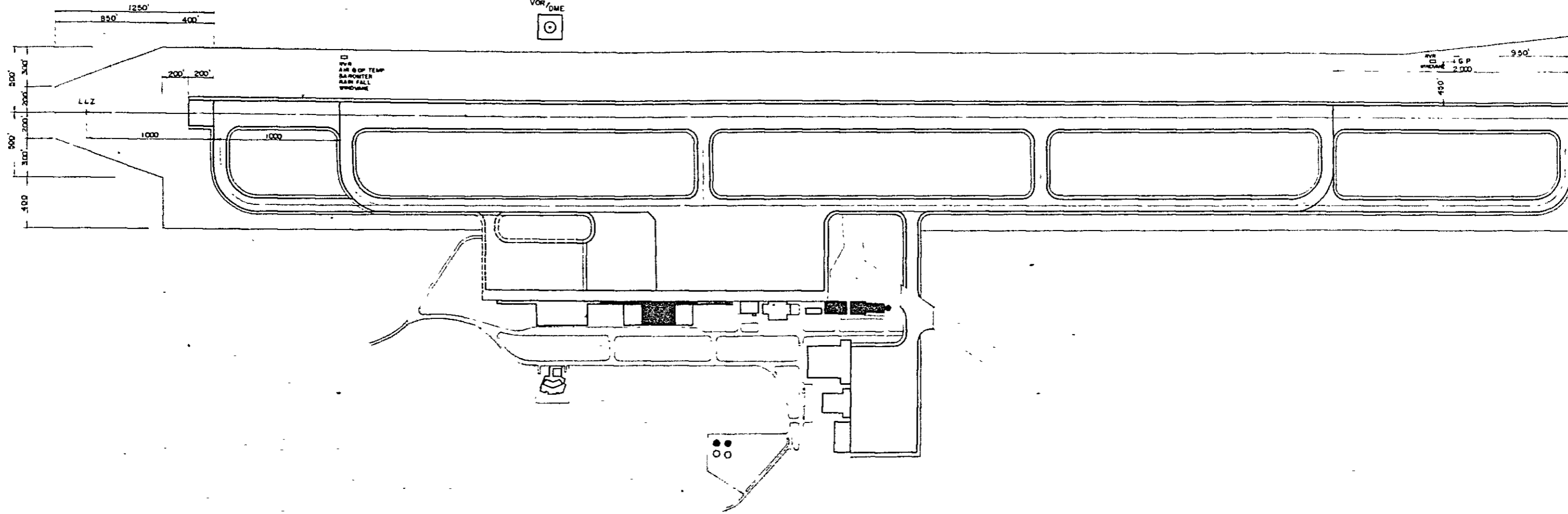
ASR




VOR/OME





1500



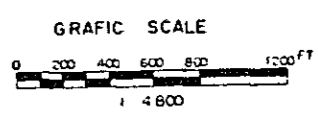
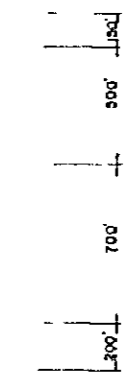
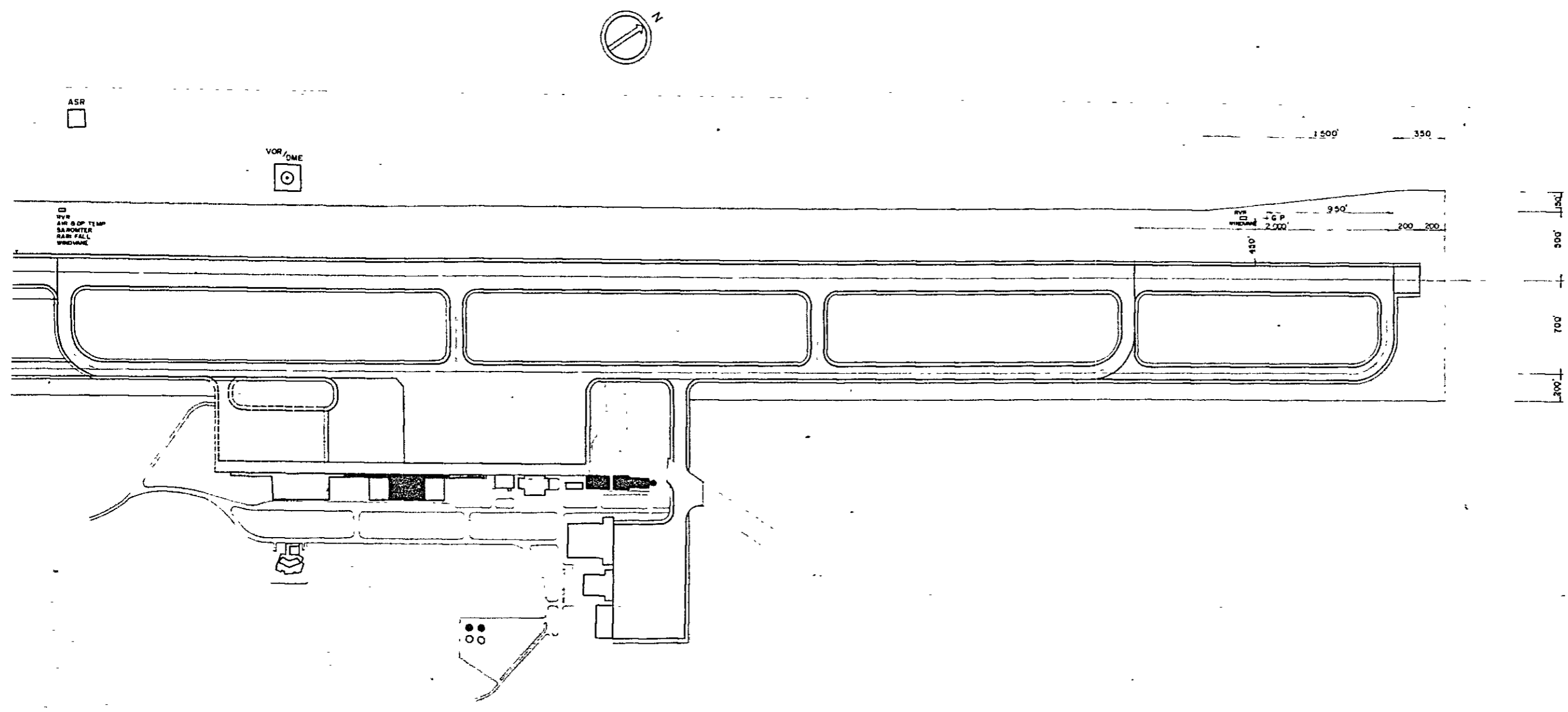

 W/S  
 AIR & GP TEMP  
 BAROMETER  
 RAIN FALL  
 WIND/DIR

RUNWAY TAXIWAY APRON

LEGEND  PHASE I  
 PHASE II

TERMINAL AREA

LEGEND  PHASE I  
 PHASE II



**RUNWAY TAXIWAY APRON**

LEGEND

PHASE I (solid line)

PHASE II (dashed line)

**TERMINAL AREA**

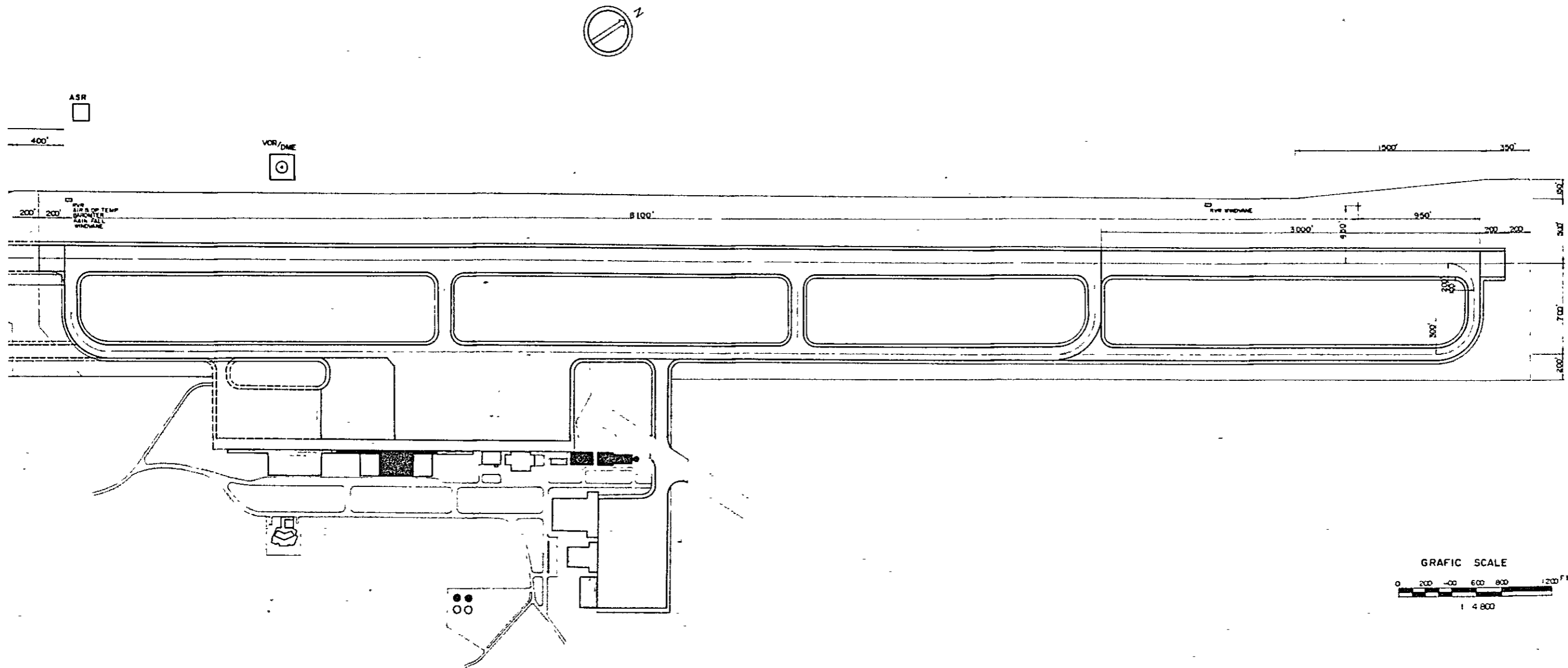
LEGEND



PHASE I (stippled pattern)



PHASE II (dotted pattern)

|  |               |
|--|---------------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA         |               |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT      |               |
| AIRPORT BASIC DIMENSIONS CASE - I<br>FEASIBILITY STUDY | MAR 1980<br>4 |
| JAPAN INTERNATIONAL COOPERATION AGENCY                 |               |



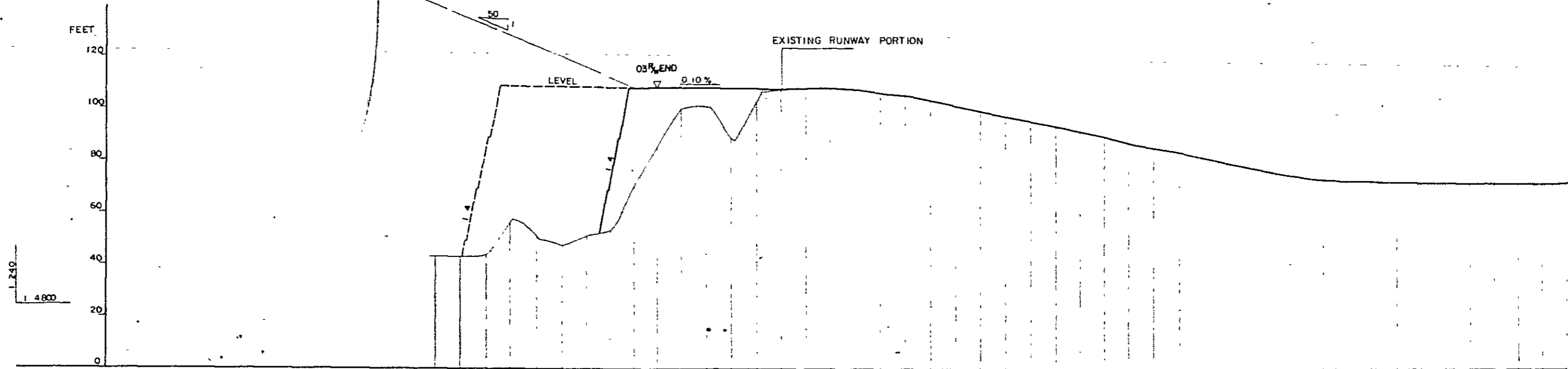


RUNWAY TAXIWAY APRON  
 LEGEND  PHASE I  
 PHASE II

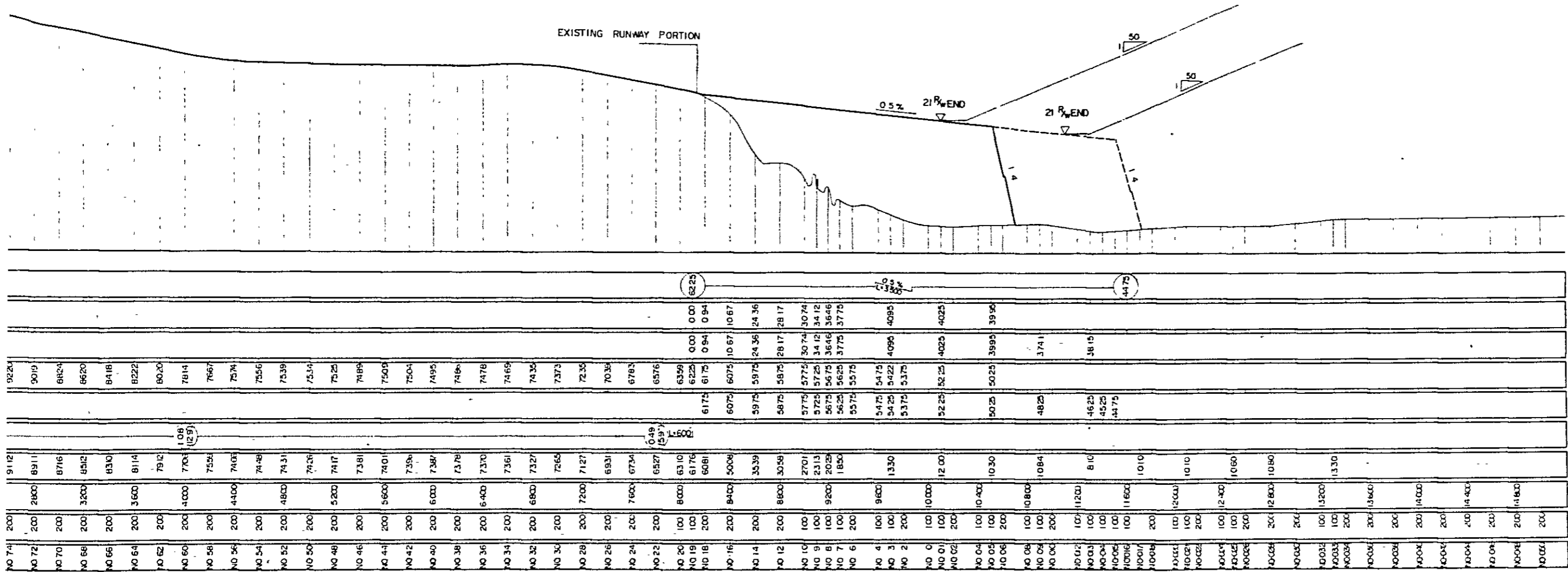
TERMINAL AREA  
 LEGEND  PHASE I  
 PHASE II

|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| AIRPORT BASIC DIMENSIONS CASE - 2                 | MAR 1980 |
| FEASIBILITY STUDY                                 | 5        |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |

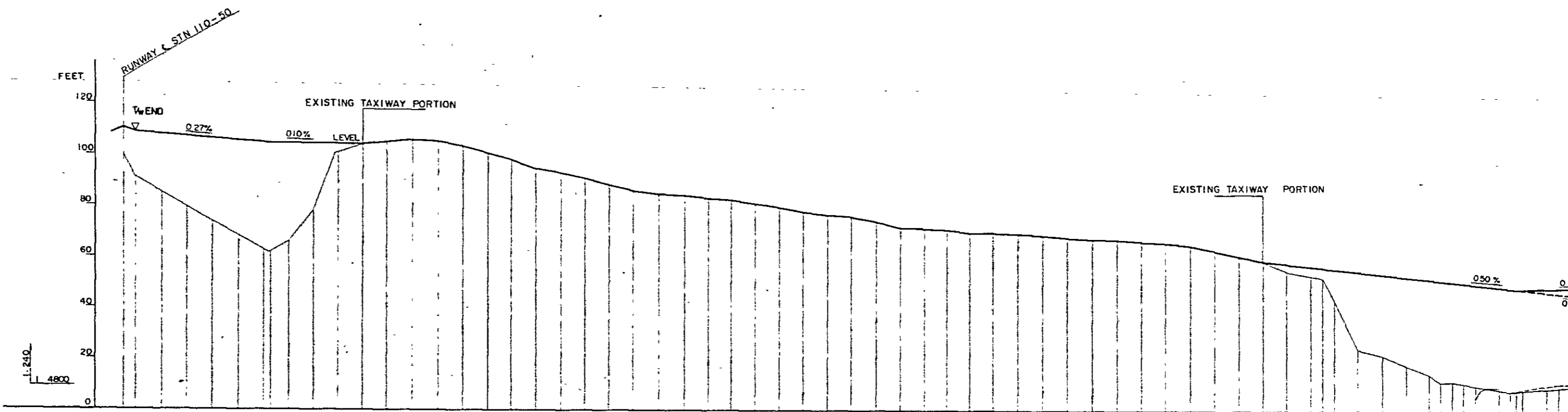




| STATION | DISTANCE | ACCUMULATED DISTANCE | GROUND HEIGHT | OVERLAY THICKNESS (Feet (Inch)) | FORMATION HEIGHT CASE-2 | FORMATION HEIGHT CASE-1 | FILL CASE-2 | FILL CASE-1 | GRADIENT  |
|---------|----------|----------------------|---------------|---------------------------------|-------------------------|-------------------------|-------------|-------------|-----------|
| NO 153  | 200      | 5200                 |               |                                 |                         |                         |             |             |           |
| NO 150  | 200      | 4800                 |               |                                 |                         |                         |             |             |           |
| NO 148  | 200      | 4400                 |               |                                 |                         |                         |             |             |           |
| NO 146  | 200      | 4000                 |               |                                 |                         |                         |             |             |           |
| NO 144  | 200      | 3600                 |               |                                 |                         |                         |             |             |           |
| NO 142  | 200      | 3200                 |               |                                 |                         |                         |             |             |           |
| NO 140  | 200      | 2800                 |               |                                 |                         |                         |             |             |           |
| NO 138  | 200      | 2400                 | 43.11         |                                 |                         |                         |             |             |           |
| NO 136  | 200      | 2000                 | 43.30         |                                 |                         |                         |             |             |           |
| NO 134  | 200      | 1600                 | 42.50         |                                 |                         |                         |             |             |           |
| NO 132  | 200      | 1200                 | 44.10         |                                 |                         |                         |             |             |           |
| NO 130  | 200      | 800                  | 58.73         |                                 | 1105.4                  | 1105.4                  | 51.84       | 51.84       | 0.03% END |
| NO 128  | 200      | 400                  | 50.51         |                                 | 1105.4                  | 1105.4                  | 60.03       | 60.03       | 0.10%     |
| NO 126  | 200      | 0                    | 49.31         |                                 | 1105.4                  | 1105.4                  | 61.23       | 61.23       |           |
| NO 124  | 200      |                      | 52.47         |                                 | 1105.4                  | 1105.4                  | 58.07       | 58.07       |           |
| NO 122  | 200      |                      | 54.67         |                                 | 1105.4                  | 1105.4                  | 55.38       | 55.38       |           |
| NO 120  | 200      |                      | 72.73         |                                 | 1105.4                  | 1105.4                  | 37.81       | 37.81       |           |
| NO 118  | 200      |                      | 89.88         |                                 | 1105.4                  | 1105.4                  | 20.66       | 20.66       |           |
| NO 116  | 200      |                      | 102.54        |                                 | 1103.4                  | 1103.4                  | 7.84        | 7.84        |           |
| NO 114  | 200      |                      | 103.04        |                                 | 1101.4                  | 1101.4                  | 7.10        | 7.10        |           |
| NO 112  | 200      |                      | 88.97         |                                 | 1099.4                  | 1099.4                  | 20.97       | 20.97       |           |
| NO 110  | 200      |                      | 108.66        |                                 | 1097.4                  | 1097.4                  | 1.08        | 1.08        |           |
| NO 108  | 200      |                      | 103.05        |                                 | 1095.4                  | 1095.4                  | 0.00        | 0.00        |           |
| NO 106  | 200      |                      | 109.27        | 0.49 (12.9")                    |                         |                         |             |             |           |
| NO 104  | 200      |                      | 109.31        | 1.50 (38.1")                    |                         |                         |             |             |           |
| NO 102  | 200      |                      | 109.00        |                                 |                         |                         |             |             |           |
| NO 100  | 200      |                      | 108.70        |                                 |                         |                         |             |             |           |
| NO 98   | 200      |                      | 107.19        |                                 |                         |                         |             |             |           |
| NO 96   | 200      |                      | 105.16        |                                 |                         |                         |             |             |           |
| NO 94   | 200      |                      | 103.20        |                                 |                         |                         |             |             |           |
| NO 92   | 200      |                      | 101.16        |                                 |                         |                         |             |             |           |
| NO 90   | 200      |                      | 99.14         |                                 |                         |                         |             |             |           |
| NO 88   | 200      |                      | 97.12         |                                 |                         |                         |             |             |           |
| NO 86   | 200      |                      | 95.05         |                                 |                         |                         |             |             |           |
| NO 84   | 200      |                      | 93.04         |                                 |                         |                         |             |             |           |
| NO 82   | 200      |                      | 91.12         |                                 |                         |                         |             |             |           |
| NO 80   | 200      |                      | 89.11         |                                 |                         |                         |             |             |           |
| NO 78   | 200      |                      | 87.16         |                                 |                         |                         |             |             |           |
| NO 76   | 200      |                      | 85.12         |                                 |                         |                         |             |             |           |
| NO 74   | 200      |                      | 83.34         |                                 |                         |                         |             |             |           |
| NO 72   | 200      |                      | 81.14         |                                 |                         |                         |             |             |           |
| NO 70   | 200      |                      | 79.10         |                                 |                         |                         |             |             |           |
| NO 68   | 200      |                      | 77.04         | 1.08 (27.9")                    |                         |                         |             |             |           |
| NO 66   | 200      |                      | 75.54         |                                 |                         |                         |             |             |           |
| NO 64   | 200      |                      | 74.64         |                                 |                         |                         |             |             |           |
| NO 62   | 200      |                      | 73.54         |                                 |                         |                         |             |             |           |
| NO 60   | 200      |                      | 72.54         |                                 |                         |                         |             |             |           |
| NO 58   | 200      |                      | 71.54         |                                 |                         |                         |             |             |           |
| NO 56   | 200      |                      | 70.54         |                                 |                         |                         |             |             |           |
| NO 54   | 200      |                      | 69.54         |                                 |                         |                         |             |             |           |
| NO 52   | 200      |                      | 68.54         |                                 |                         |                         |             |             |           |
| NO 50   | 200      |                      | 67.54         |                                 |                         |                         |             |             |           |
| NO 48   | 200      |                      | 66.54         |                                 |                         |                         |             |             |           |
| NO 46   | 200      |                      | 65.54         |                                 |                         |                         |             |             |           |
| NO 44   | 200      |                      | 64.54         |                                 |                         |                         |             |             |           |
| NO 42   | 200      |                      | 63.54         |                                 |                         |                         |             |             |           |
| NO 40   | 200      |                      | 62.54         |                                 |                         |                         |             |             |           |
| NO 38   | 200      |                      | 61.54         |                                 |                         |                         |             |             |           |

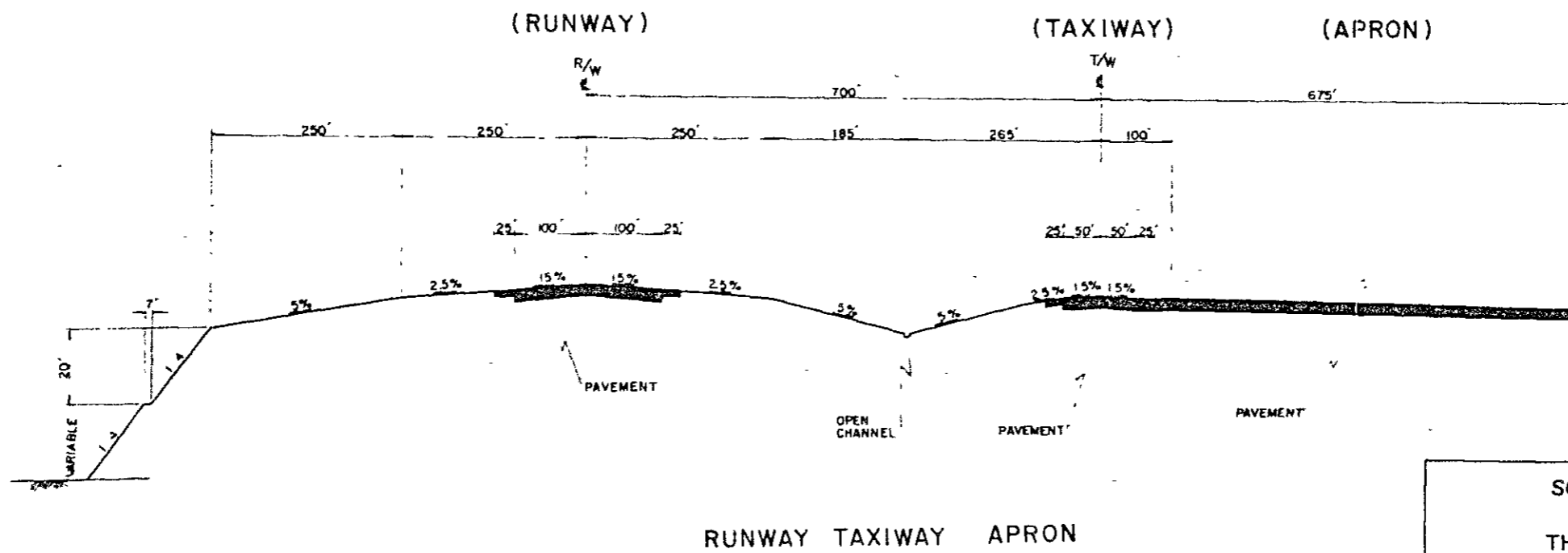
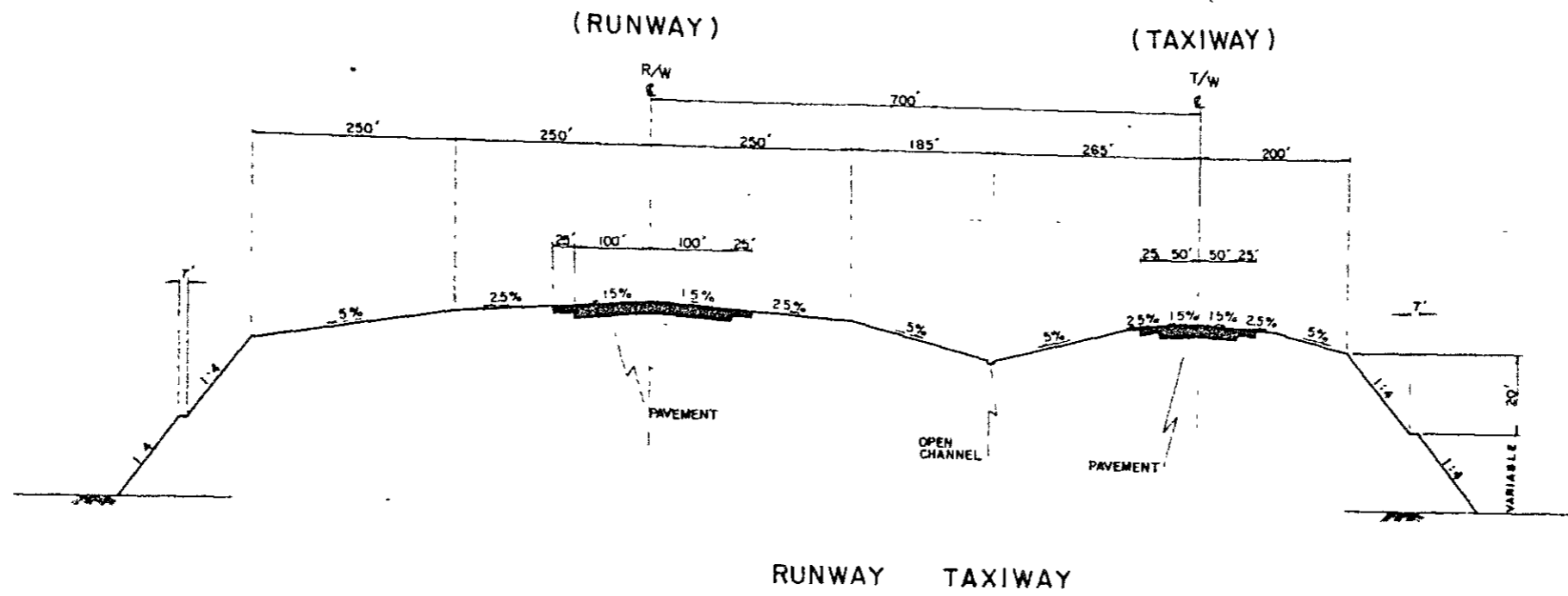


|   |          |
|---|----------|
| SOCIALIST REPUBLIC OF THE UNION OF BURMA          |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| RUNWAY PROFILE                                    | MAR 1980 |
| FEASIBILITY STUDY                                 | 6        |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |



| STATION | DISTANCE | ACCUMULATED DISTANCE | GROUND HIGH | OVERLAY THICKNESS (Feet) | FORMATION HIGH CASE-2 | FORMATION HIGH CASE-1 | FILL CASE-2 | FILL CASE-1 | GRADIENT |
|---------|----------|----------------------|-------------|--------------------------|-----------------------|-----------------------|-------------|-------------|----------|
| 1071    | 0        | 0                    | 99.47       |                          | 110.49                | 110.49                | 110.2       | 110.2       | 0.27%    |
| 1072    | 200      | 200                  | 91.69       |                          | 108.99                | 108.99                | 117.30      | 117.30      | 0.10%    |
| 1073    | 400      | 400                  | 62.02       | 0.83                     | 106.38                | 106.38                | 44.36       | 44.36       | LEVEL    |
| 1074    | 600      | 600                  | 66.40       |                          | 106.23                | 106.23                | 39.83       | 39.83       |          |
| 1075    | 800      | 800                  | 78.50       |                          | 106.03                | 106.03                | 27.53       | 27.53       |          |
| 1076    | 1000     | 1000                 | 101.50      |                          | 105.83                | 105.83                | 4.33        | 4.33        |          |
| 1077    | 1200     | 1200                 | 105.83      |                          | 105.83                | 105.83                | 0.00        | 0.00        |          |
| 1078    | 1400     | 1400                 | 106.00      |                          | 106.83                | 106.83                |             |             |          |
| 1079    | 1600     | 1600                 | 107.00      |                          | 107.83                | 107.83                |             |             |          |
| 1080    | 1800     | 1800                 | 107.00      |                          | 107.83                | 107.83                |             |             |          |
| 1081    | 2000     | 2000                 | 105.00      |                          | 105.83                | 105.83                |             |             |          |
| 1082    | 2200     | 2200                 | 102.50      |                          | 103.33                | 103.33                |             |             |          |
| 1083    | 2400     | 2400                 | 100.00      |                          | 100.83                | 100.83                |             |             |          |
| 1084    | 2600     | 2600                 | 96.50       |                          | 97.33                 | 97.33                 |             |             |          |
| 1085    | 2800     | 2800                 | 95.00       |                          | 96.63                 | 96.63                 |             |             |          |
| 1086    | 3000     | 3000                 | 93.00       |                          | 93.83                 | 93.83                 |             |             |          |
| 1087    | 3200     | 3200                 | 90.50       |                          | 91.33                 | 91.33                 |             |             |          |
| 1088    | 3400     | 3400                 | 87.50       |                          | 88.33                 | 88.33                 |             |             |          |
| 1089    | 3600     | 3600                 | 86.50       |                          | 87.33                 | 87.33                 |             |             |          |
| 1090    | 3800     | 3800                 | 85.50       |                          | 86.33                 | 86.33                 |             |             |          |
| 1091    | 4000     | 4000                 | 84.50       |                          | 85.33                 | 85.33                 |             |             |          |
| 1092    | 4200     | 4200                 | 83.60       |                          | 84.63                 | 84.63                 |             |             |          |
| 1093    | 4400     | 4400                 | 82.50       |                          | 83.33                 | 83.33                 |             |             |          |
| 1094    | 4600     | 4600                 | 80.50       |                          | 82.03                 | 82.03                 |             |             |          |
| 1095    | 4800     | 4800                 | 81.20       |                          | 80.33                 | 80.33                 |             |             |          |
| 1096    | 5000     | 5000                 | 79.50       |                          | 79.63                 | 79.63                 |             |             |          |
| 1097    | 5200     | 5200                 | 78.80       |                          | 78.33                 | 78.33                 |             |             |          |
| 1098    | 5400     | 5400                 | 77.50       |                          | 76.33                 | 76.33                 |             |             |          |
| 1099    | 5600     | 5600                 | 75.40       |                          | 76.23                 | 76.23                 |             |             |          |
| 1100    | 5800     | 5800                 | 73.80       |                          | 74.63                 | 74.63                 |             |             |          |
| 1101    | 6000     | 6000                 | 72.50       |                          | 73.33                 | 73.33                 |             |             |          |
| 1102    | 6200     | 6200                 | 72.00       |                          | 72.83                 | 72.83                 |             |             |          |
| 1103    | 6400     | 6400                 | 70.80       |                          | 71.63                 | 71.63                 |             |             |          |
| 1104    | 6600     | 6600                 | 71.00       |                          | 71.69                 | 71.69                 |             |             |          |
| 1105    | 6800     | 6800                 | 70.50       |                          | 71.33                 | 71.33                 |             |             |          |
| 1106    | 7000     | 7000                 | 69.00       |                          | 70.83                 | 70.83                 |             |             |          |
| 1107    | 7200     | 7200                 | 68.00       |                          | 69.83                 | 69.83                 |             |             |          |
| 1108    | 7400     | 7400                 | 66.50       |                          | 69.33                 | 69.33                 |             |             |          |
| 1109    | 7600     | 7600                 | 66.00       |                          | 68.83                 | 68.83                 |             |             |          |
| 1110    | 7800     | 7800                 | 67.50       |                          | 68.33                 | 68.33                 |             |             |          |
| 1111    | 8000     | 8000                 | 67.00       |                          | 67.83                 | 67.83                 |             |             |          |
| 1112    | 8200     | 8200                 | 66.00       |                          | 66.83                 | 66.83                 |             |             |          |
| 1113    | 8400     | 8400                 | 64.00       |                          | 64.83                 | 64.83                 |             |             |          |
| 1114    | 8600     | 8600                 | 62.00       |                          | 62.83                 | 62.83                 |             |             |          |
| 1115    | 8800     | 8800                 | 60.00       |                          | 60.83                 | 60.83                 |             |             |          |
| 1116    | 9000     | 9000                 | 56.00       |                          | 56.83                 | 56.83                 |             |             |          |
| 1117    | 9200     | 9200                 | 53.50       |                          | 56.33                 | 56.33                 | 4.74        | 3.91        |          |
| 1118    | 9400     | 9400                 | 44.78       |                          | 57.83                 | 57.83                 | 13.05       | 12.22       |          |
| 1119    | 9600     | 9600                 | 24.00       |                          | 55.83                 | 55.83                 | 32.19       | 31.36       |          |
| 1120    | 9800     | 9800                 | 22.00       |                          | 54.83                 | 54.83                 | 53.75       | 52.96       |          |
| 1121    | 10000    | 10000                | 18.14       |                          | 53.83                 | 53.83                 | 36.66       | 35.86       |          |
| 1122    | 10200    | 10200                | 14.80       |                          | 53.33                 | 53.33                 | 39.07       | 38.27       |          |
| 1123    | 10400    | 10400                | 11.60       |                          | 52.33                 | 52.33                 | 41.53       | 40.73       |          |
| 1124    | 10600    | 10600                | 11.70       |                          | 52.33                 | 52.33                 | 40.63       | 39.05       |          |
| 1125    | 10800    | 10800                | 8.00        |                          | 50.33                 | 50.33                 | 42.33       | 41.50       |          |
| 1126    | 11000    | 11000                | 11.00       |                          | 50.83                 | 50.83                 | 37.33       | 37.33       |          |





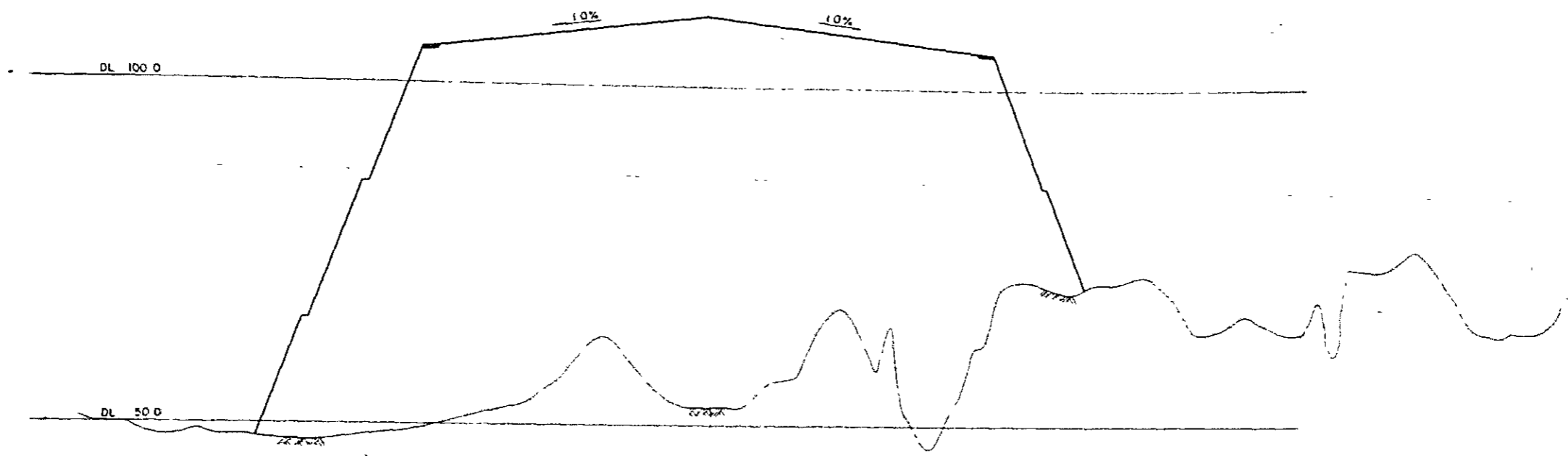
|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| TYPICAL CROSS SECTION                             | MAR 1980 |
| FEASIBILITY STUDY                                 | 8        |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |



STA No 116

LOCALIZER AREA

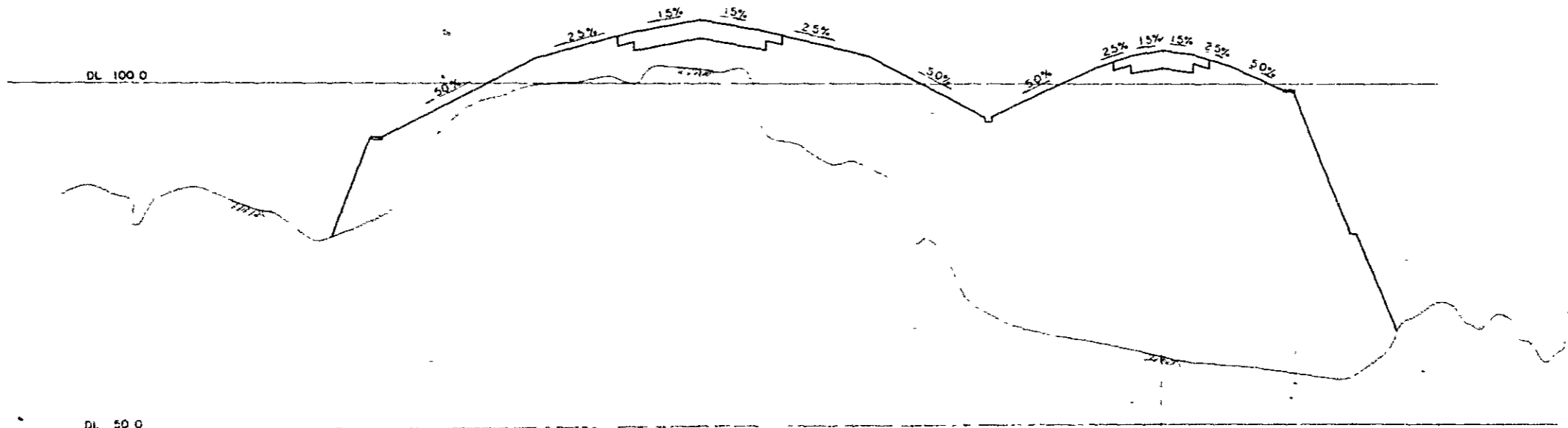
R/W



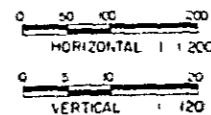
STA No 106

R/W

T/W



GRAPHIC SCALE



SOCIALIST REPUBLIC OF THE UNION OF BURMA

RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT

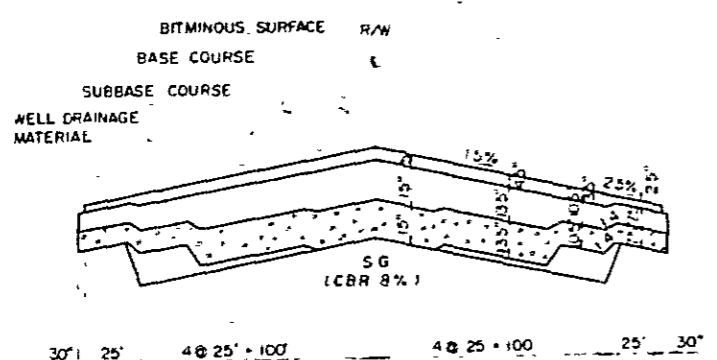
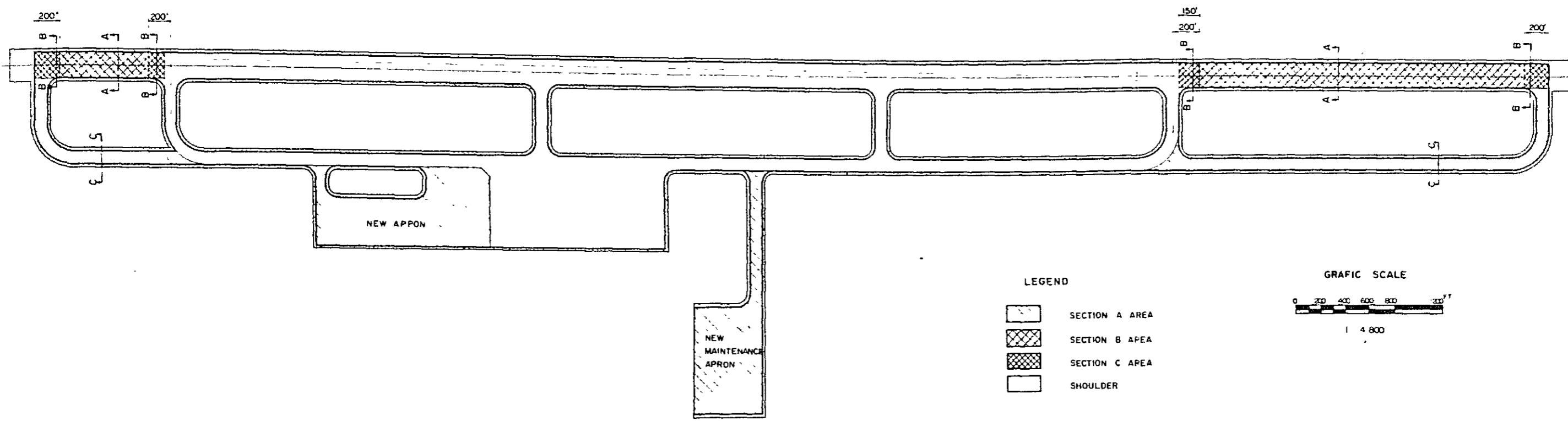
CROSS SECTION - 2

MAR 1980

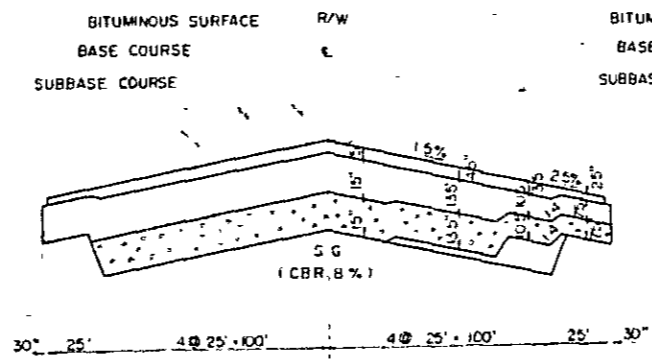
FEASIBILITY STUDY

10

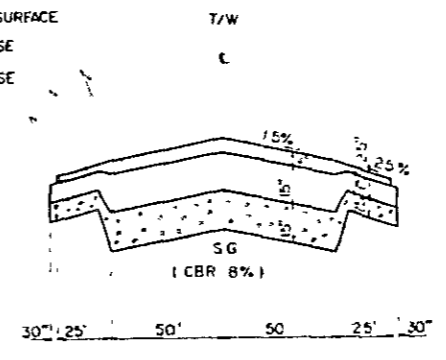
JAPAN INTERNATIONAL COOPERATION AGENCY



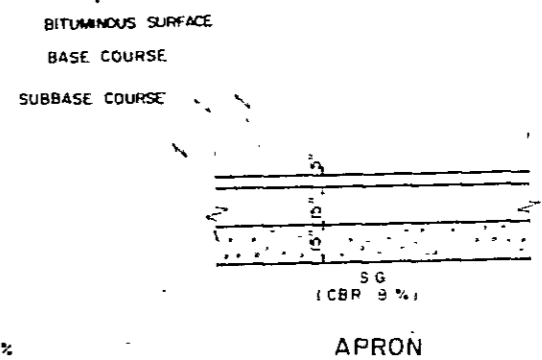
SECTION A - A



SECTION B - B

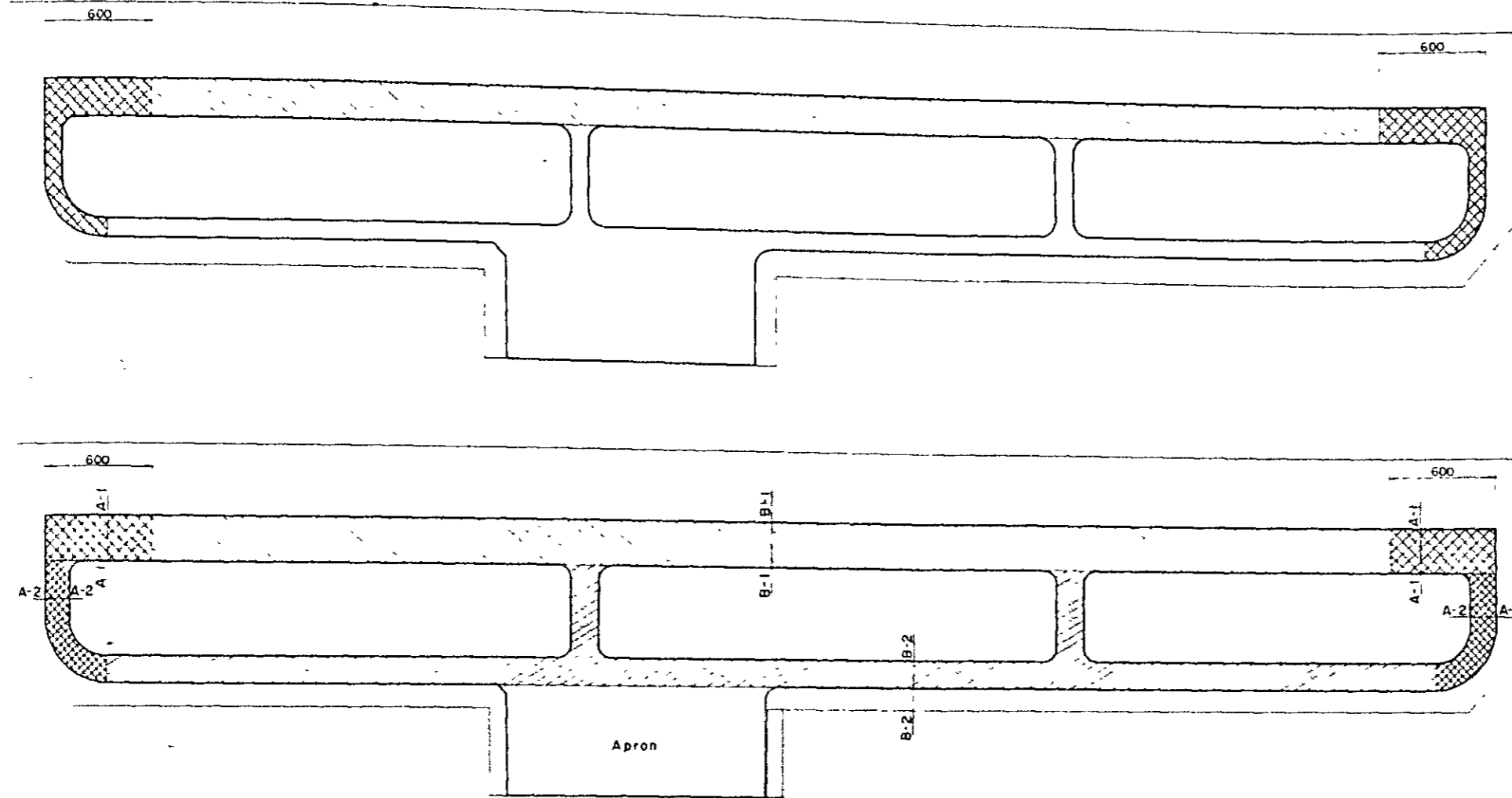


SECTION C - C

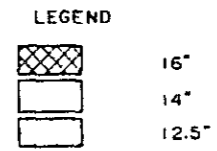


|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| PAVEMENT (NEW CONSTRUCTION)                       | MAR 1980 |
| FEASIBILITY STUDY                                 |          |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |

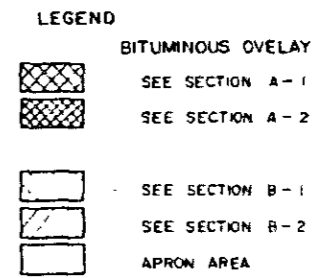




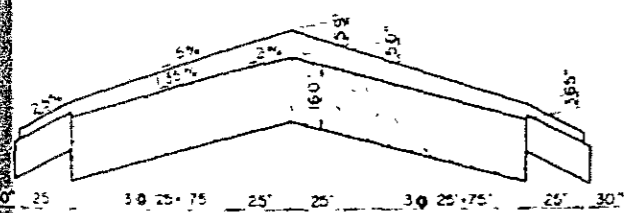
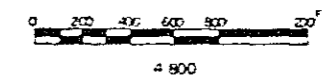
EXISTING PAVEMENT THICKNESS



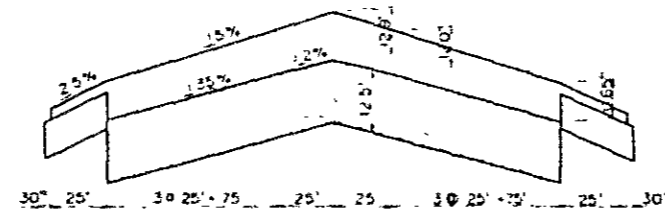
OVERLAY DESIGN THICKNESS



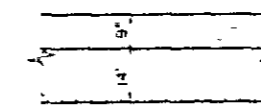
GRAPHIC SCALE



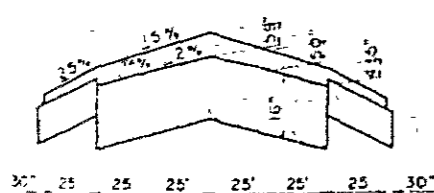
SECTION A - 1



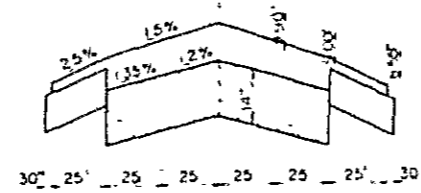
SECTION B - 1



APRON



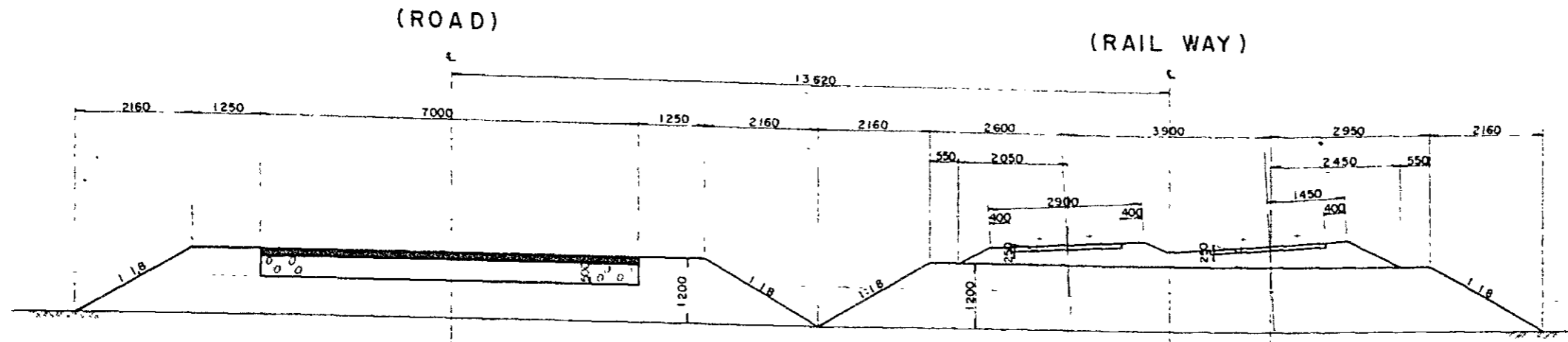
SECTION A - 2



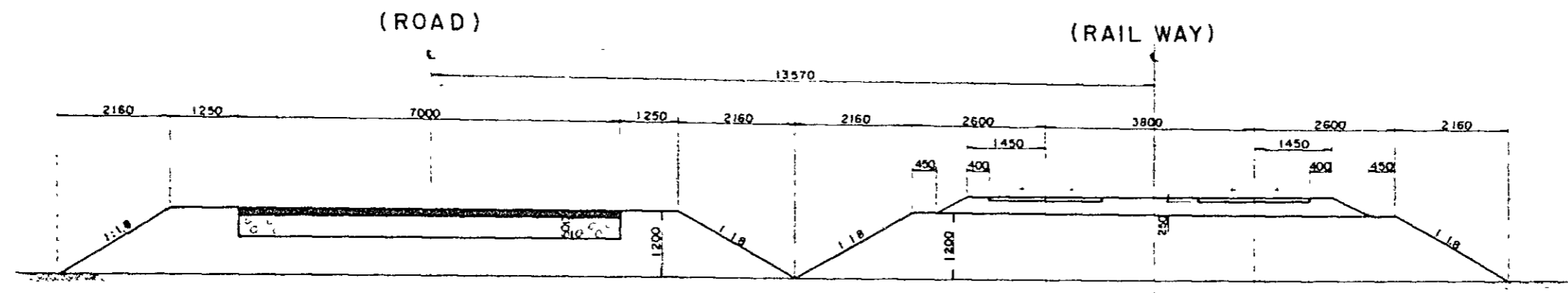
SECTION B - 2

H = 1 480  
V = 1 24

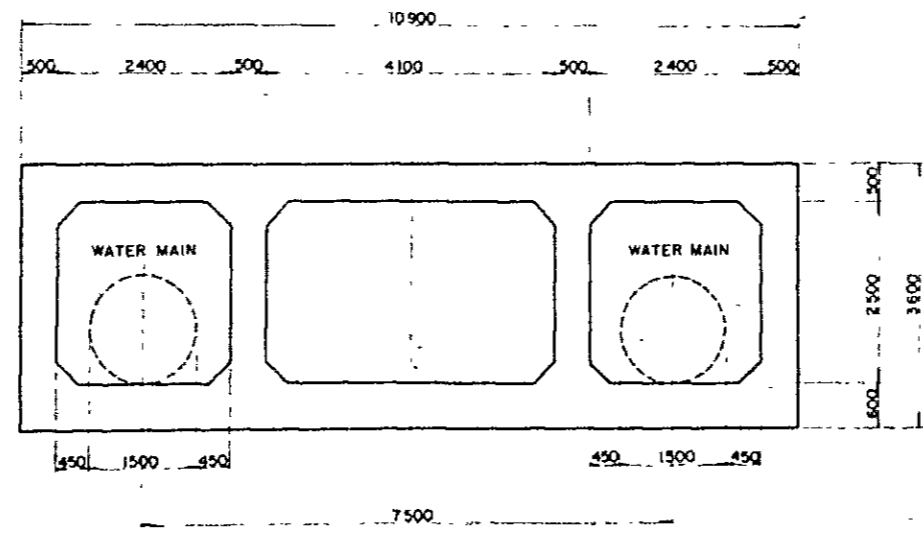
|   |                |
|---|----------------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |                |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |                |
| PAVEMENT (OVERLAYS)<br>FEASIBILITY STUDY          | MAR 1980<br>12 |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |                |



SECTION in CURVE of ROAD & RAIL WAY Scale 1/50



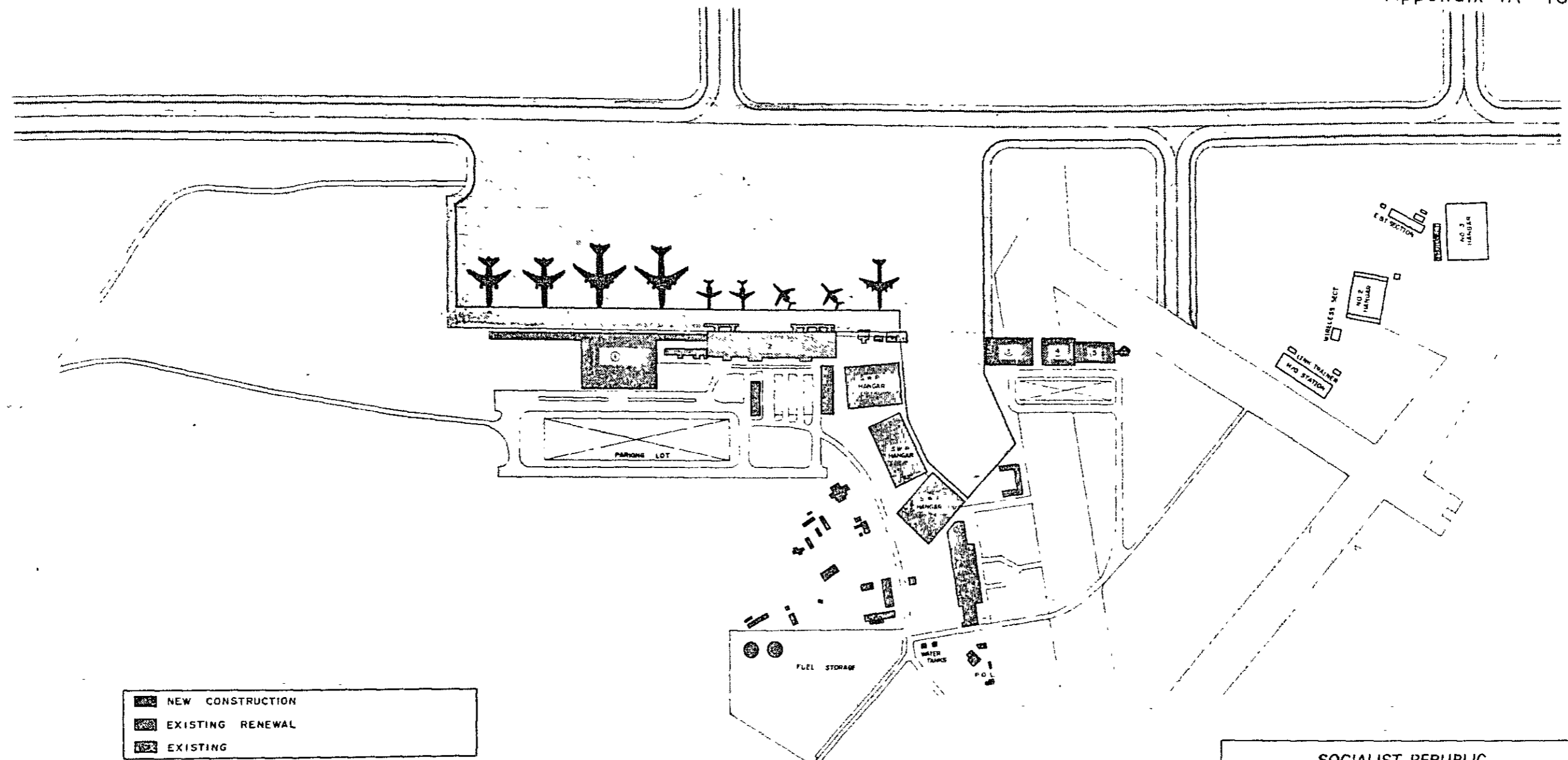
SECTION for STRAIGHT PORTION of ROAD & RAIL WAY Scale 1/50



SECTION of CULVERT for RGN WATER MAIN Scale 1/50

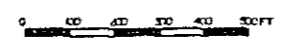
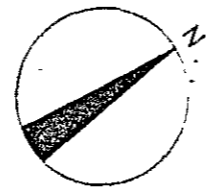
DIMENSION mm

|   |          |
|---|----------|
| SOCIALIST REPUBLIC OF THE UNION OF BURMA          |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| TYPICAL CROSS SECTION OF RAILWAY & ROAD & CULVERT | MAR 1980 |
| FEASIBILITY STUDY                                 | 13       |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |

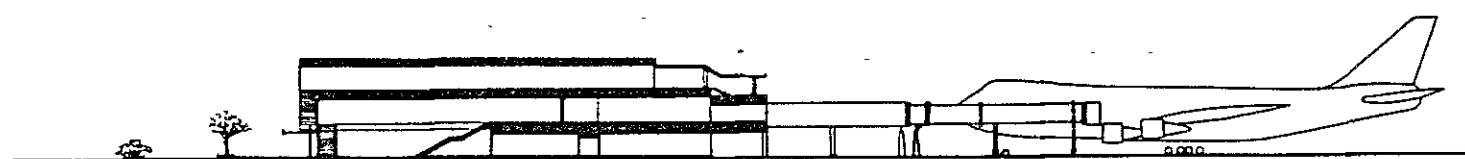
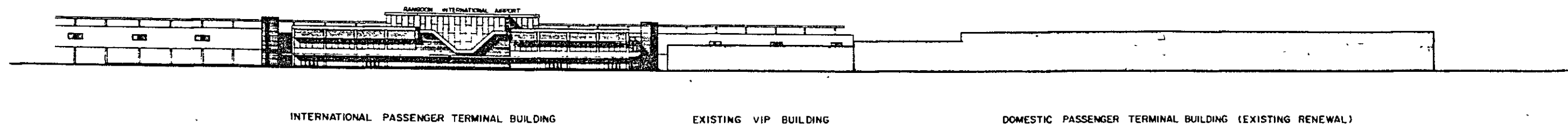


NEW CONSTRUCTION  
 EXISTING RENEWAL  
 EXISTING

① INTERNATIONAL PASSENGER TERMINAL BUILDING  
 ② DOMESTIC PASSENGER TERMINAL BUILDING  
 ③ FIRE FIGHTING & RESCUE STATION  
 ④ MAIN POWER SUBSTATION  
 ⑤ CONTROL TOWER & OPERATIONAL BUILDING



|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| TERMINAL AREA LAYOUT PLAN PHASE I                 | MAR 1980 |
| FEASIBILITY STUDY                                 |          |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |



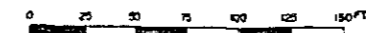
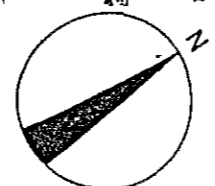
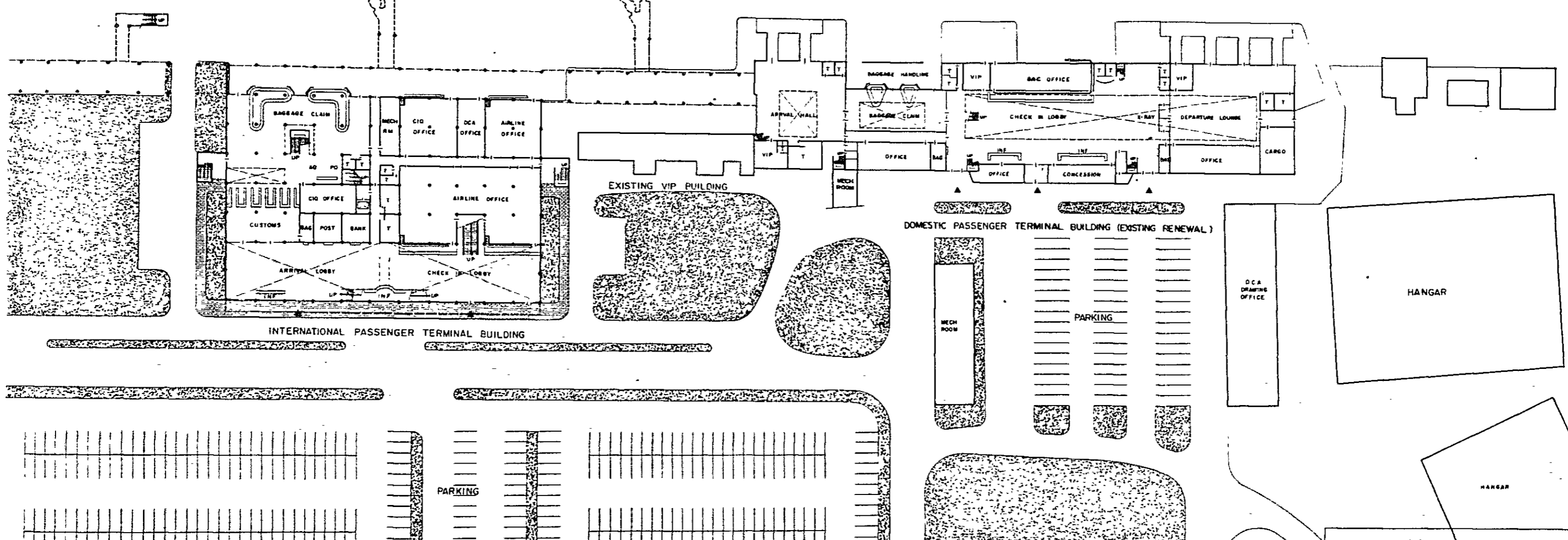
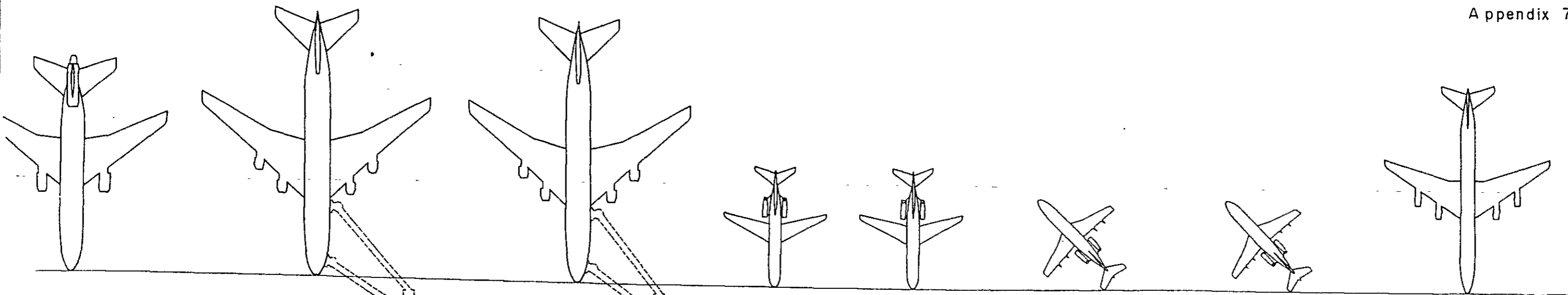
INTERNATIONAL PASSENGER TERMINAL BUILDING



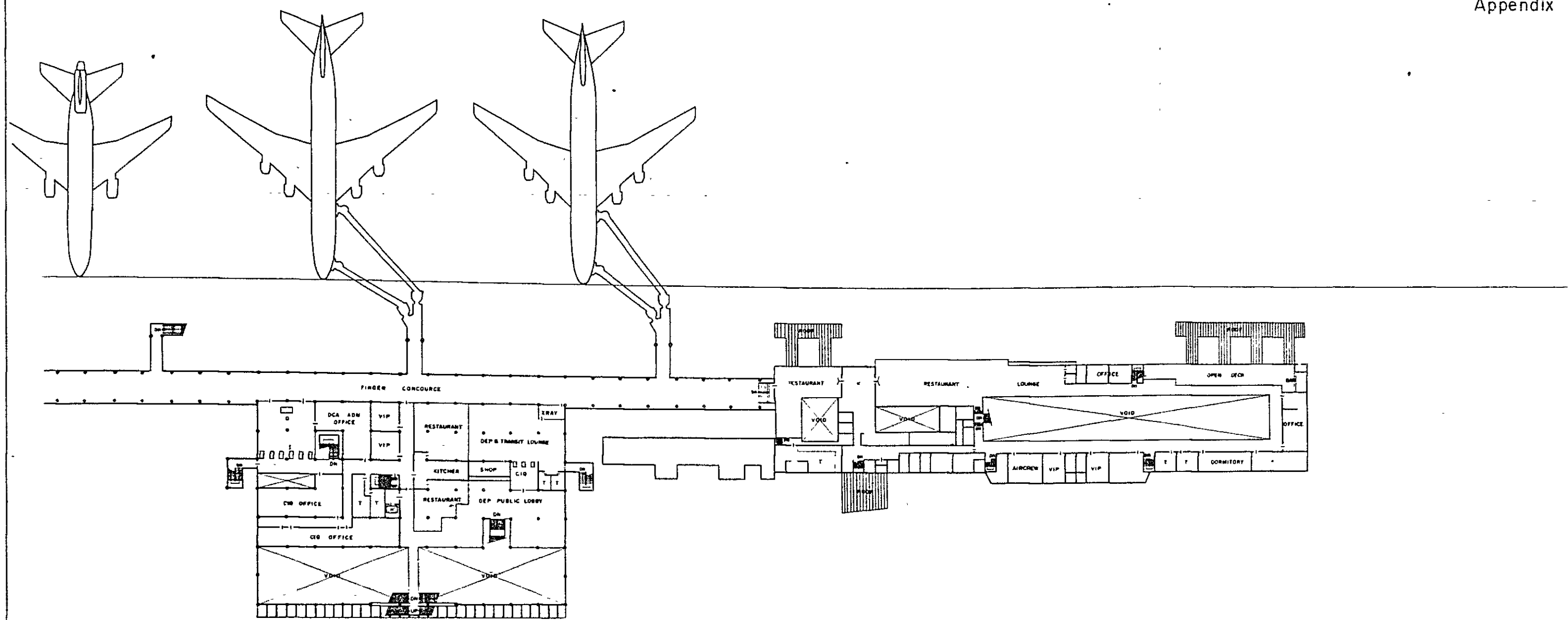
DOMESTIC PASSENGER TERMINAL BUILDING (EXISTING RENEWAL)



|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA            |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT         |          |
| PASSENGER TERMINAL BUILDINGS<br>ELEVATION SECTION PHASE I | MAR 1980 |
| FEASIBILITY STUDY   | 15       |
| JAPAN INTERNATIONAL COOPERATION AGENCY                    |          |



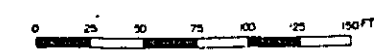
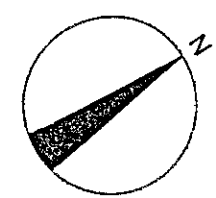
|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA            |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT         |          |
| PASSENGER TERMINAL BUILDINGS<br>GROUND FLOOR PLAN PHASE I | MAR 1980 |
| FEASIBILITY STUDY   | 16       |
| JAPAN INTERNATIONAL COOPERATION AGENCY                    |          |



INTERNATIONAL PASSENGER TERMINAL BUILDING

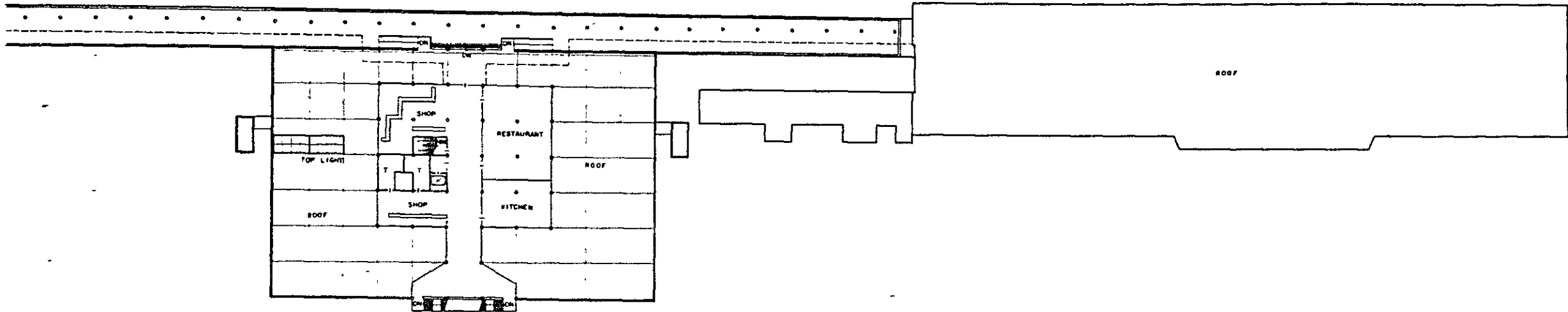
EXISTING VIP BUILDING

DOMESTIC PASSENGER TERMINAL BUILDING (EXISTING RENEWAL)



|  |          |
|--|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA         |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT      |          |
| PASSENGER TERMINAL BUILDINGS<br>1ST FLOOR PLAN PHASE I | MAR 1980 |
| FEASIBILITY STUDY                                      |          |
| JAPAN INTERNATIONAL COOPERATION AGENCY                 |          |

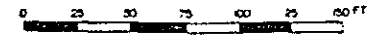
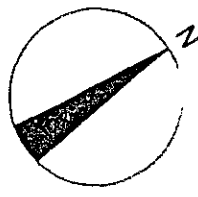
MAR 1980  
17



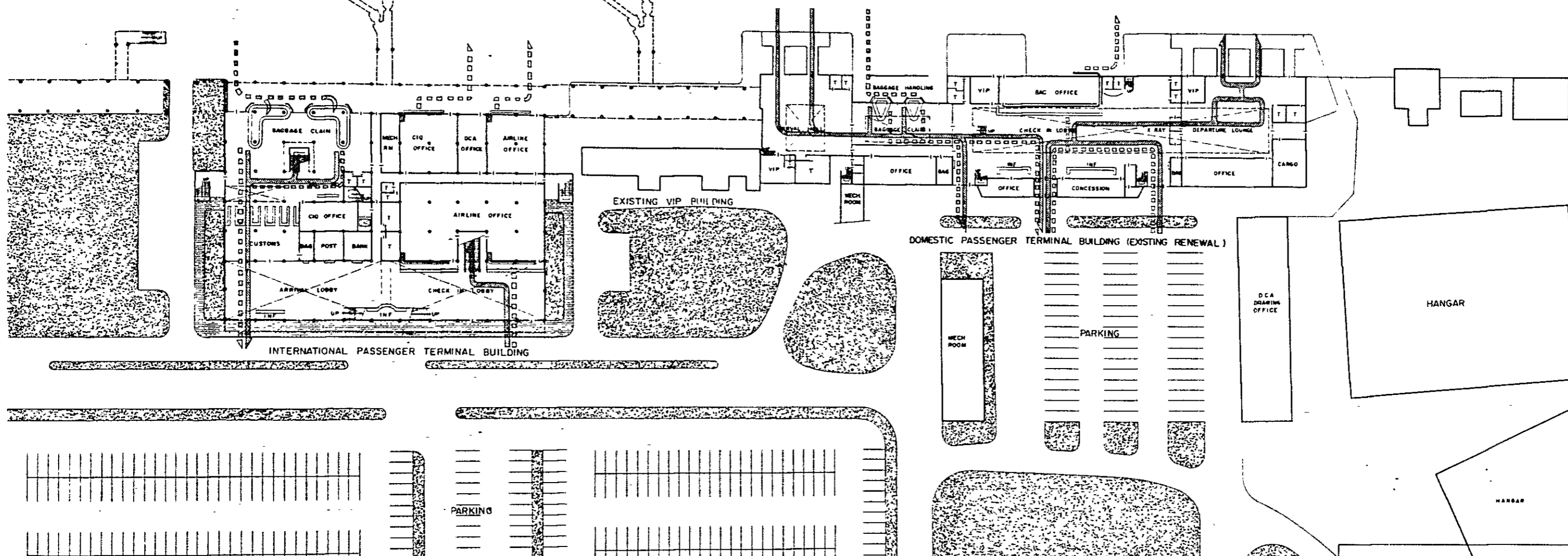
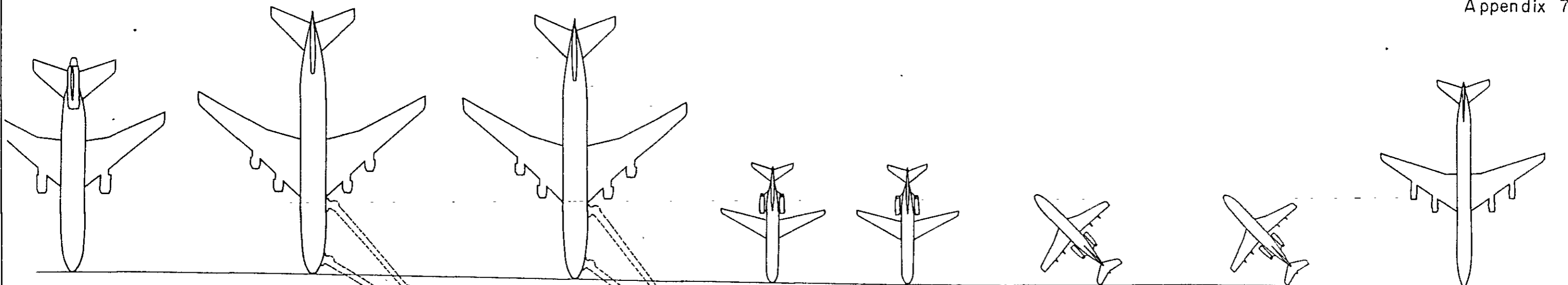
INTERNATIONAL PASSENGER TERMINAL BUILDING

EXISTING VIP BUILDING

DOMESTIC PASSENGER TERMINAL BUILDING



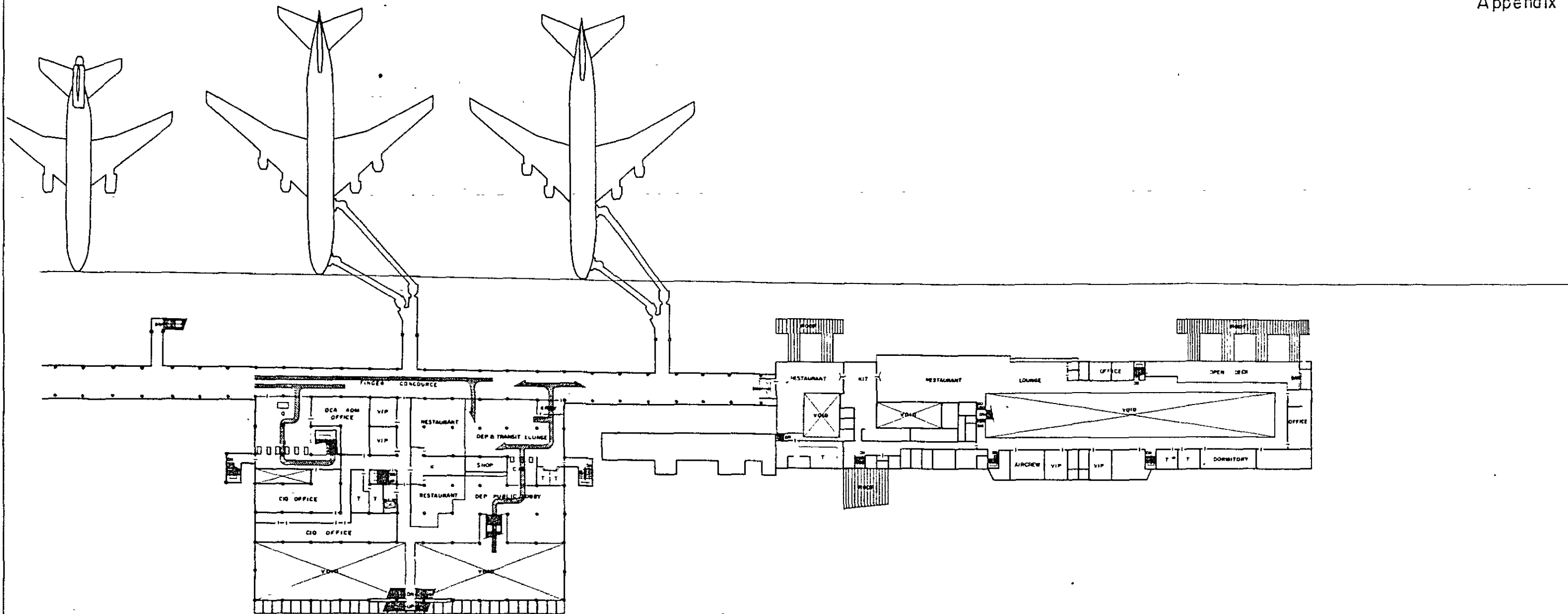
|  |          |
|--|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA         |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT      |          |
| PASSENGER TERMINAL BUILDINGS<br>2ND FLOOR PLAN PHASE 1 | MAR 1980 |
| - FEASIBILITY STUDY -                                  |          |
| JAPAN INTERNATIONAL COOPERATION AGENCY                 |          |



|  |                     |
|--|---------------------|
|  | DEPARTING PASSENGER |
|  | ARRIVING PASSENGER  |
|  | DEPARTING BAGGAGE   |
|  | ARRIVING BAGGAGE    |

|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA                |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT             |          |
| PASSENGER & BAGGAGE TRAFFIC FLOW<br>GROUND FLOOR PLAN PHASE I | MAR 1980 |
| FEASIBILITY STUDY   |          |
| JAPAN INTERNATIONAL COOPERATION AGENCY                        |          |

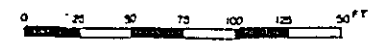
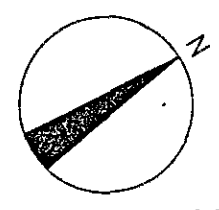
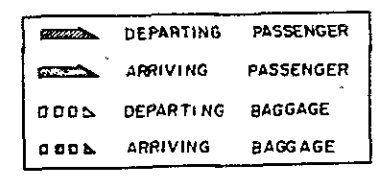




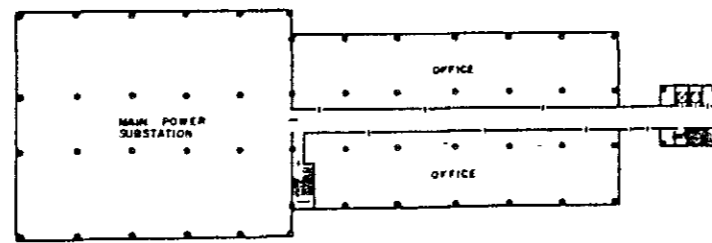
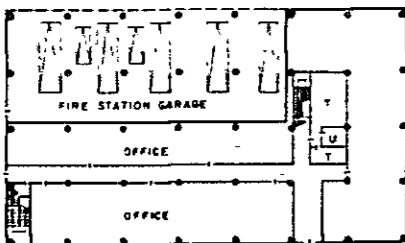
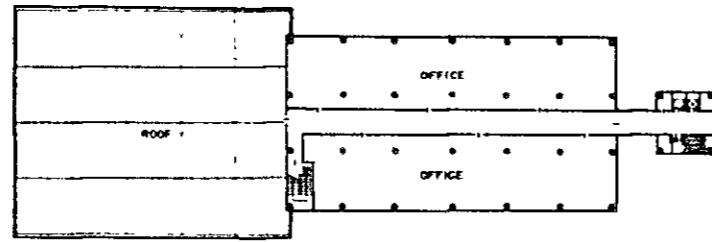
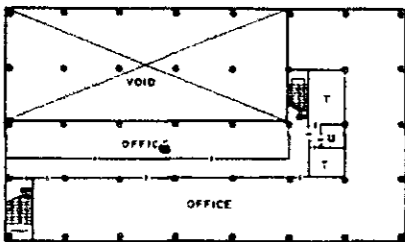
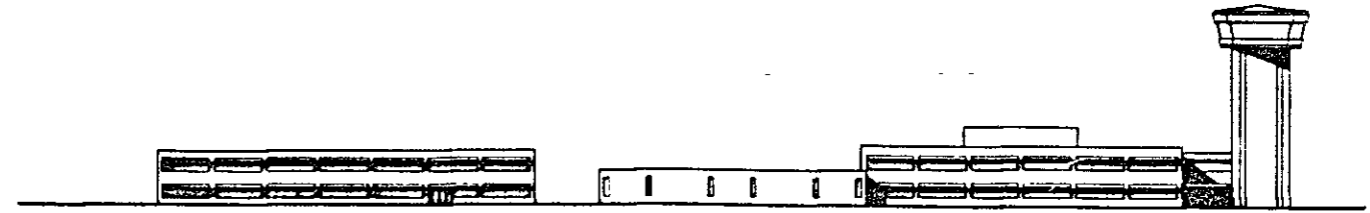
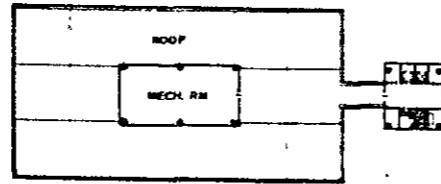
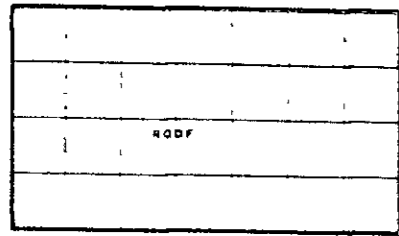
INTERNATIONAL PASSENGER TERMINAL BUILDING

EXISTING VIP BUILDING

DOMESTIC PASSENGER TERMINAL BUILDING (EXISTING RENEWAL)



|  |          |
|--|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA             |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT          |          |
| PASSENGER & BAGGAGE TRAFFIC FLOW<br>1ST FLOOR PLAN PHASE I | MAR 1980 |
| FEASIBILITY STUDY  | 20       |
| JAPAN INTERNATIONAL COOPERATION AGENCY                     |          |

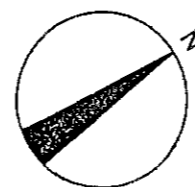


FIRE FIGHTING & RESCUE STATION    MAIN POWER SUB-STATION    OPERATIONAL BLDG    CONTROL TOWER

FIRE FIGHTING & RESCUE STATION

MAIN POWER SUB-STATION

ADMINISTRATION & OPERATIONAL BLDG CONTROL TOWER



SOCIALIST REPUBLIC  
OF  
THE UNION OF BURMA

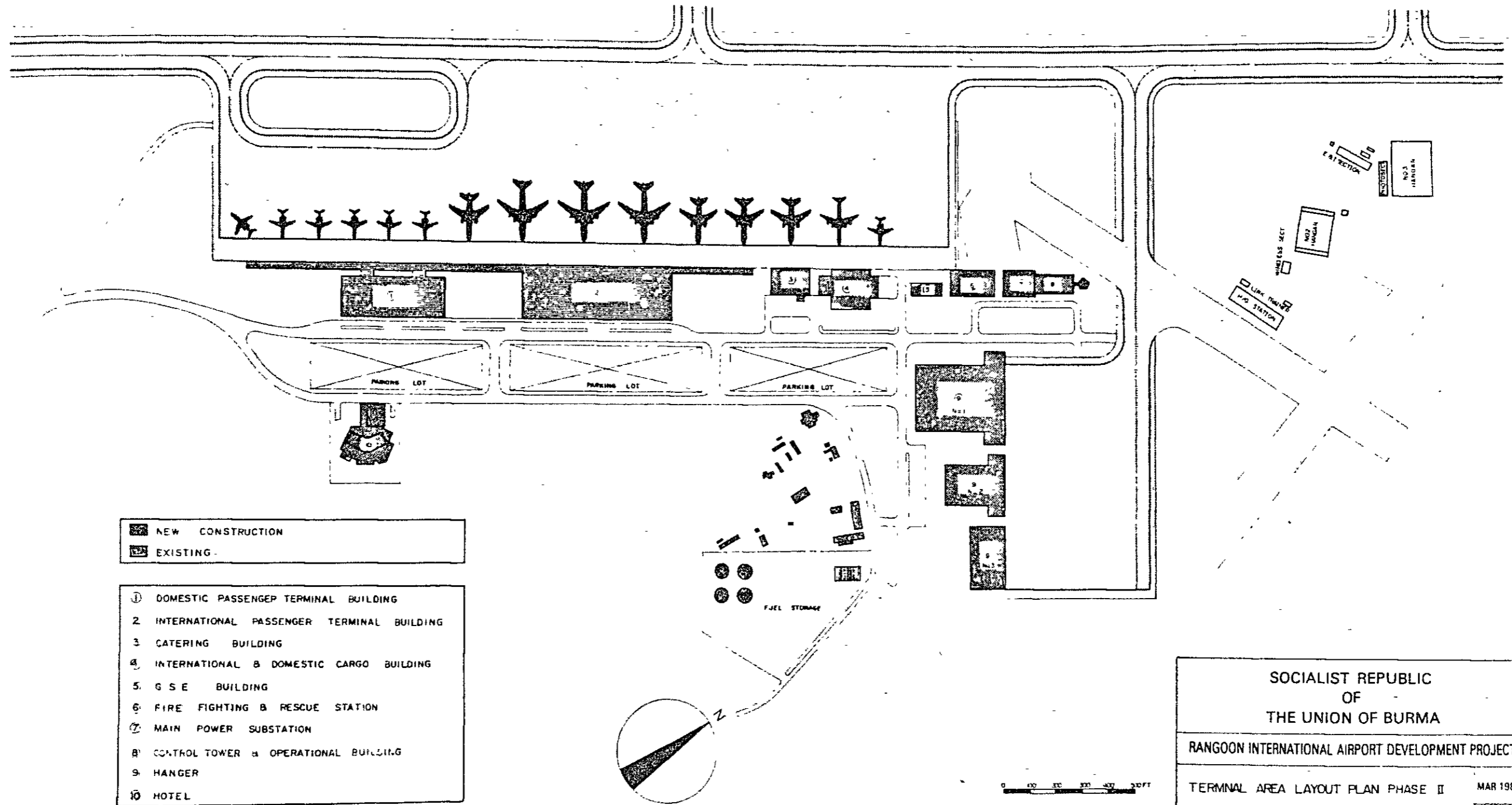
RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT



CONTROL TOWER & OPERATIONAL  
MAIN POWER SUBSTATION & FIRE FIGHTING &  
RESCUE STATION BUILDINGS  
FEASIBILITY STUDY

MAR 1980

21

JAPAN INTERNATIONAL COOPERATION AGENCY



 NEW CONSTRUCTION  
 EXISTING

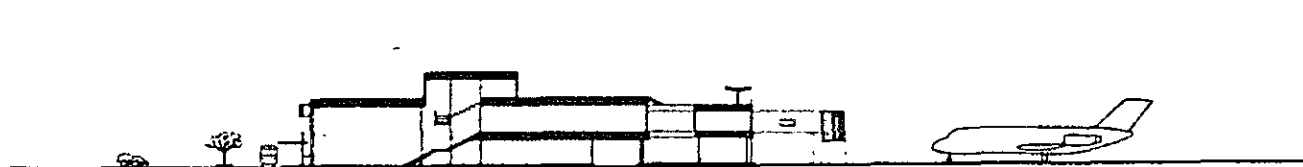
- ① DOMESTIC PASSENGER TERMINAL BUILDING
- 2 INTERNATIONAL PASSENGER TERMINAL BUILDING
- 3 CATERING BUILDING
- ④ INTERNATIONAL & DOMESTIC CARGO BUILDING
- 5 G S E BUILDING
- 6 FIRE FIGHTING & RESCUE STATION
- ⑦ MAIN POWER SUBSTATION
- 8 CONTROL TOWER & OPERATIONAL BUILDING
- 9 HANGER
- ⑩ HOTEL

|   |          |
|---|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA    |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT |          |
| TERMINAL AREA LAYOUT PLAN PHASE II                | MAR 1980 |
| FEASIBILITY STUDY                                 | 22       |
| JAPAN INTERNATIONAL COOPERATION AGENCY            |          |



DOMESTIC PASSENGER TERMINAL BUILDING

INTERNATIONAL PASSENGER TERMINAL BUILDING



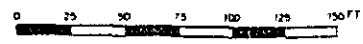
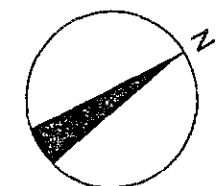
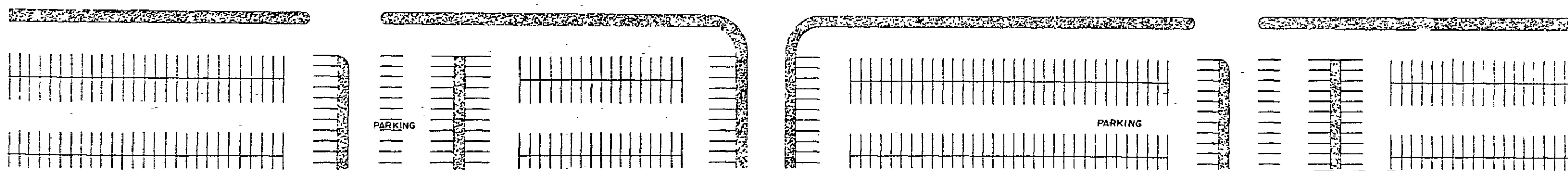
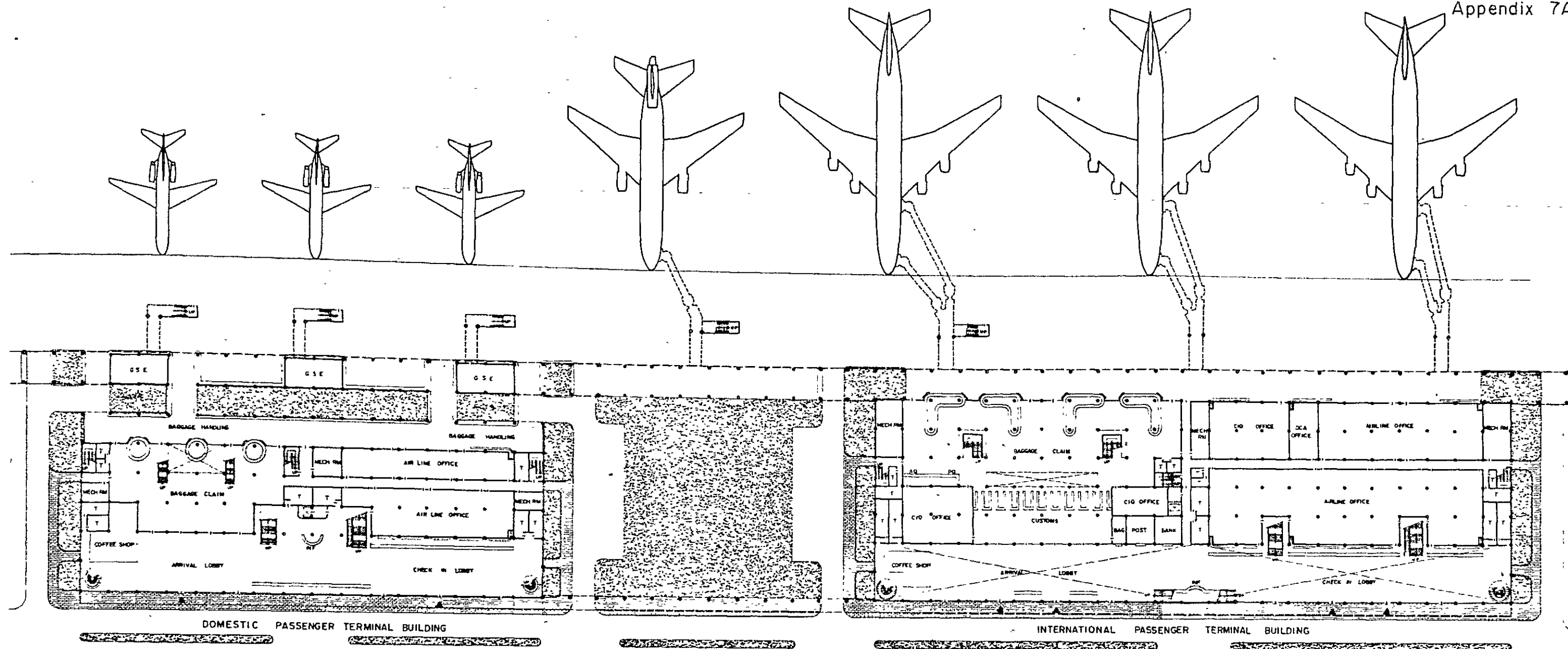
DOMESTIC PASSENGER TERMINAL BUILDING



INTERNATIONAL PASSENGER TERMINAL



|  |          |
|--|----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA             |          |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT          |          |
| PASSENGER TERMINAL BUILDINGS<br>ELEVATION SECTION PHASE II | MAR 1980 |
| FEASIBILITY STUDY  | 23       |
| JAPAN INTERNATIONAL COOPERATION AGENCY                     |          |



|  |           |
|--|-----------|
| SOCIALIST REPUBLIC<br>OF<br>THE UNION OF BURMA             |           |
| RANGOON INTERNATIONAL AIRPORT DEVELOPMENT PROJECT          |           |
| PASSENGER TERMINAL BUILDINGS<br>GROUND FLOOR PLAN PHASE II | MAR. 1980 |
| FEASIBILITY STUDY  |           |
| JAPAN INTERNATIONAL COOPERATION AGENCY                     |           |