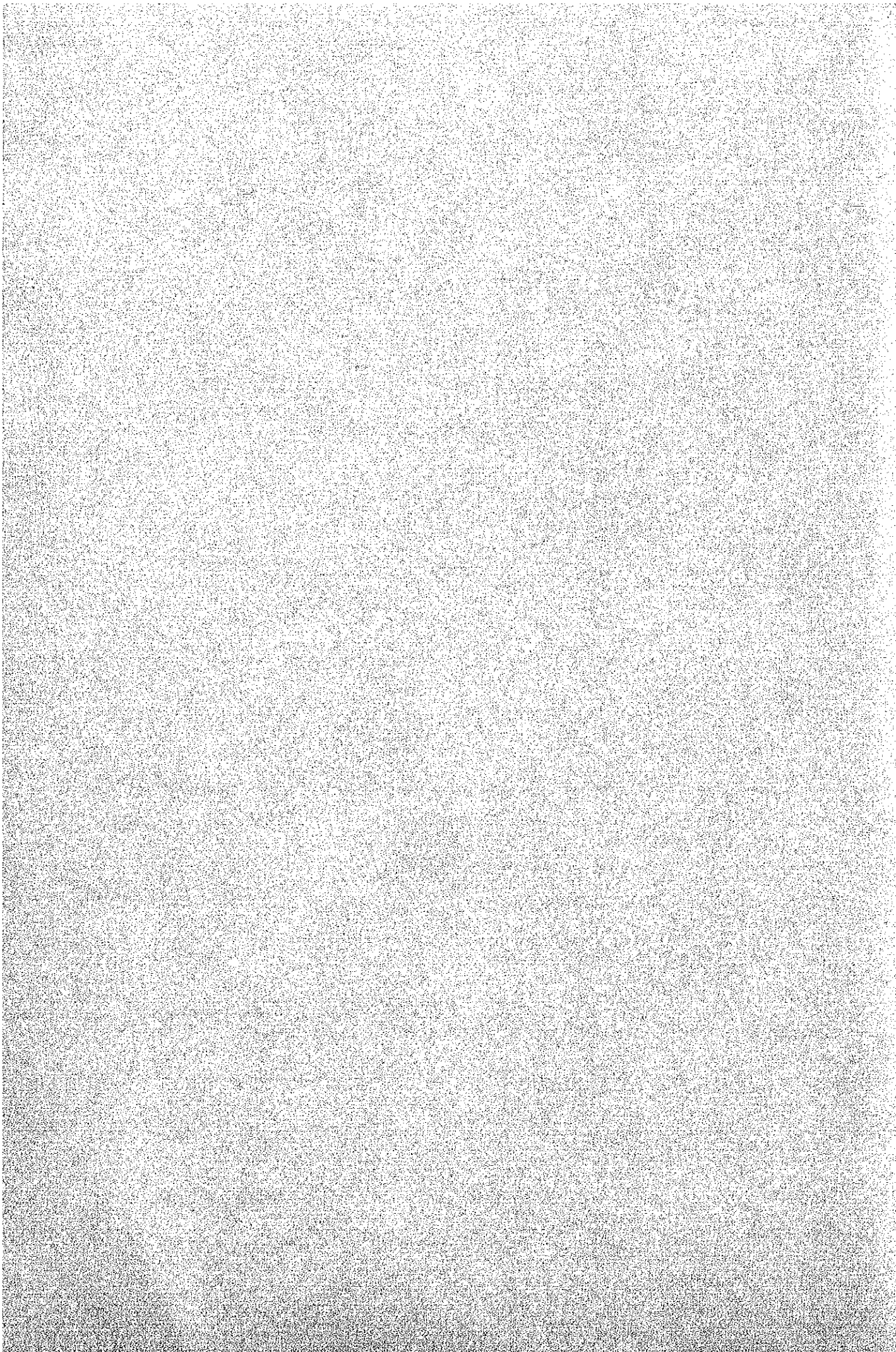


CHAPTER 7: CONCLUSIONS

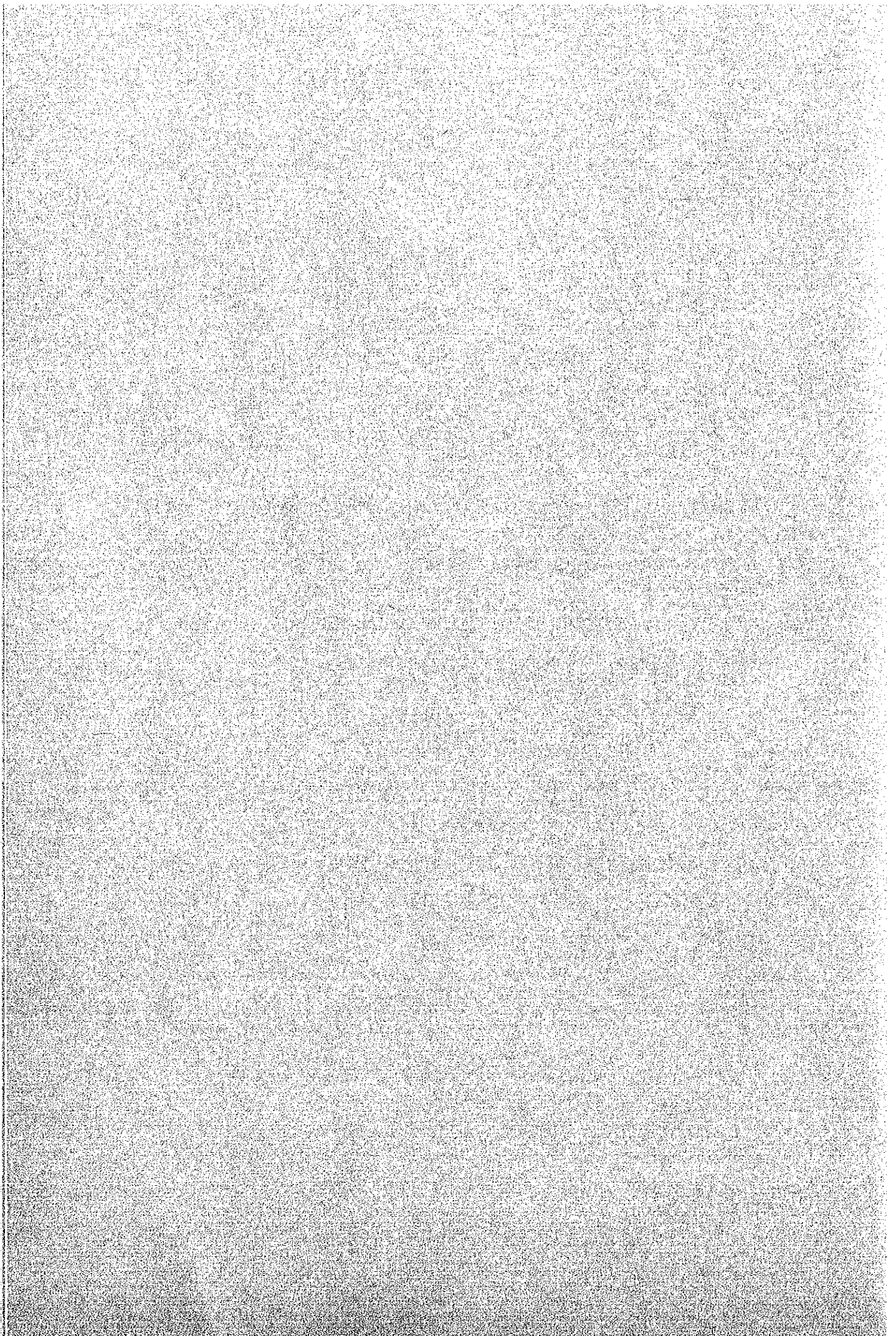


CHAPTER 7: CONCLUSION

Malaysia is now very positive about learning Japanese technology and work ethics. The establishment of the Japanese Language Center is in line with this intension. In this circumstance, the national demand for the education to be offered by this project is likely to be strong. The demand will become even stronger as the output of graduates increases.

APPENDICES

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I. BASIC DESIGN SURVEY MISSIONS

I-1 BASIC DESIGN SURVEY MISSION

(a) MEMBERS

Team leader	Kiyoshi KATO	Director Grant Aid Department Japan International Cooperation Agency (JICA)
Project Coordinator	Tsutomu KOMAKI	Grand Aid Department Japan International Cooperation Agency (JICA)
Acting leader Cost Estimator	Nobuhiro KOMATSUBARA	Nikken Sekkei Ltd
Architect	Takahisa KATO	Nikken Sekkei Ltd
Engineer	Tadahiko HASHIMOTO	Nikken Sekkei Ltd

(b) DIARY

<u>Date</u>	<u>Day</u>	<u>Description</u>
Oct. 10	Sun.	Flight from Tokyo to Kuala Lumpur
11	Mon.	Courtesy call and briefing to the Japanese Embassy and JICA office
12	Tue.	Meeting in Economic Planning Units (E.P.U.): discussion on inception report, Presentation of the draft Minutes
13	Wed.	Meeting in the University of Malaya (U.M.): discussion on function of the proposed Center: Investigation of the proposed Center site
14	Thu.	Meeting in U.M.: discussion on Educational Equipment
15	Fri.	Meeting in E.P.U.: discussion on the Minutes of Discussions
16.	Sat.	Meeting in E.P.U.: signing of the Minutes of Discussions

<u>Date</u>	<u>Day</u>	<u>Description</u>
Oct. 17	Sun.	Flight from Kuala Lumpur to Tokyo (Mr. Kiyoshi KATO)
18	Mon.	Inter-team meeting
19	Tue.	Meeting in U.M.: Collection of data Investigation of the Center site
20	Wed.	Meeting in U.M.: discussion on technical aspects visit to National University: study of language lab. rooms
21	Thu.	Collection of data: prefabrication material
22	Fri.	Meeting in U.M.: discussion on Education Equipment
23	Sat.	Collection of data
24	Sun.	Flight from Kuala Lumpur to Tokyo (Mr. Tsutomu KOMAKI)
25	Mon.	Inter-team meeting, Collection of data
26	Tue.	Meeting in U.M.: discussion of Memorandum
27	Wed.	Meeting in U.M.: discussion of Memorandum
28	Thu.	Briefing to the Japanese Embassy and JICA Office
29	Fri.	Flight from Kuala Lumpur to Tokyo

Mr. Hermi Mohd. Noor	-	Director, Social Services Section, Economic Planning Unit
Mr. Kamaruzzaman Shariff	-	Director, External Assistance/ General Services Section
Mr. Anuar Latif	-	Director, Training Division Public Services Dept.
Mr. Syed Munshe Hassan	-	Assistant Secretary (Japan) Political Division, Ministry of Foreign Affairs
Miss. Wong Peg Har	-	Principal Assistant Director, Technical Aid, Economic Planning Unit
Mrs. Zainab Abdul Karim	-	Principal Assistant Director, Education and Training, Economic Planning Unit
Mrs. Nooraini Md. Ali	-	Assistant Director, Spatial Planning, Economic Planning Unit
Royal Prof. Ungku A. Aziz	-	Vice-Chancellor
Mr. Mohd Yunus Noor	-	Deputy Vice Chancellor
Asso. Prof. Leo J. Fredericks	-	Deputy Vice Chancellor
Prof. Asmah Bte Haji Omar	-	Director, Language Centre
Mr. Wan Owar Rasdi	-	Deputy Director, Language Centre
Mr. Mohd Said bin Kadis	-	Director, Centre for Foundation Studies in Science (Pusat Asasi Sains)
Mr. Booler Somchit	-	Assistant Registrar, Development, Finance Section
Mr. Hubert Kok	-	Deputy Bursar
Prof. V. Navaratnarajah	-	Civil Engineering Dept.
Mr. Teo Kian Koon	-	Civil Engineer, Estates Office
Mr. Tan Teng Hee	-	Electric Engineer, Estates Office
Mrs. Farida Cader		
Mrs. Fukuhara Midori	-	Japanese Language Lecturer of Language Centre
Mr. Odaka Yasumasa	-	Japanese Language Lecturer of Language Centre
Mr. Matsushita Hideyo	-	Lecturer of Pusat Asasi Sains

MINUTES OF THE MEETING

ON

THE UNIVERSITY OF MALAYA JAPANESE LANGUAGE CENTRE

BETWEEN

THE JAPANESE BASIC DESIGN SURVEY TEAM

AND

THE MALAYSIAN AUTHORITIES CONCERNED

MINUTES OF THE MEETING

ON

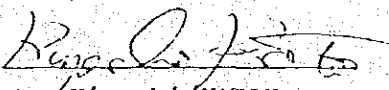
THE UNIVERSITY OF MALAYA JAPANESE LANGUAGE CENTRE

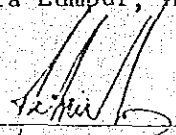
In response to the request of the Government of Malaysia, the Government of Japan, through the Japan International Cooperation Agency (JICA) sent a survey team to Malaysia headed by Mr. Kiyoshi KATOH, Director of Grant Aid Department, JICA, from 10th October to 29th October, 1982 in order to work out the Basic Design for the University of Malaya Japanese Language Centre (hereinafter referred to as the CENTRE).

During the above mentioned period, the team held a series of discussions and exchanged views with the Malaysian Authorities concerned and conducted a field survey on the Basic Design of the CENTRE.

As a result of the survey and discussions, both parties have agreed to recommend to their respective Government to take the necessary measures towards establishing the CENTRE, as stated in the attachment to this Minutes.

16th October, 1982
Kuala Lumpur, Malaysia.


Mr. Kiyoshi KATOH
Head of the Japanese
Basic Design Survey Team


Mr. Helmi Mohd. Noor,
Director,
Social Services Section,
Economic Planning Unit,
Prime Minister's Department,
Malaysia.

1. The objective of the Project is to provide necessary buildings and equipment for the training of students proceeding to Japanese Universities in the Japanese Language and University Studies in Japan.
2. The proposed site of the project is in Kuala Lumpur, Malaysia as shown in the location plan attached.
3. The Japanese survey team will convey the request of the Government of Malaysia to the Government of Japan for the latter to provide the buildings and equipment as listed in Annex I within the scope of Japanese economic cooperation in Grant Aid form.
4. The Government of Malaysia will consider taking the following necessary measures, on condition that the Grant assistance by the Government of Japan is extended to the Project:
 - 1) to provide data and information necessary for the design and the construction of the CENTRE;
 - 2) to secure land necessary for the construction of the CENTRE;
 - 3) to clear, fill and level the Project Site as needed before the start of the construction;
 - 4) to construct and prepare the access road to the Project Site, as needed;
 - 5) to provide all necessary expenses for the operation and maintenance of the CENTRE;
 - 6) to ensure prompt unloading and customs clearance at the ports of disembarkation in Malaysia of the imported materials and equipment for the construction and also to facilitate the internal

of such materials and equipment;

- 7) to ensure the exemption of Japanese nationals connected with the supply of the materials and services for the CENTRE from customs duties and sales tax in respect of bona fide personnel effects brought into Malaysia for their own use, internal taxes and other fiscal levies which may be imposed in Malaysia (subject to the clearance of the relevant Malaysian authorities);
- 8) to ensure the exemption from custom duties and other duties in respect of materials and equipment necessary for the establishment of the CENTRE. A condition of this exemption is that such materials and equipment are not to be resold in Malaysia but may be re-exported or left behind as gifts to the Government of Malaysia;
- 9) to facilitate the securing of necessary approvals, licences and other authorization required from the appropriate authorities for the implementation of the Project.
- 10) to provide other items listed in Annex II.

ANNEX I.

- (1) Large Lecture Theatre
- (2) Small Lecture Theatre⁹
- (3) Tutorial Rooms
- (4) Lecturers Rooms
- (5) Offices
- (6) Materials, Production Equipment and Language
Laboratories including duplicating machines etc.
- (7) Sound and Projection Systems

ANNEX II

Items whose costs will be borne by the Government of Malaysia:

- (1) Soil test and other geological test
- (2) Demolishing and removal of obstacles in the Site including underground obstacles
- (3) Electric power supply to transformer sub-station
- (4) Telephone trunk line to the main distribution frame in the building
- (5) Water supply to the reservoir in the building
- (6) Drainage connection to the public drain
- (7) Sewer connection to the public sewage after the septic tank
- (8) Landscaping and gardening
- (9) Gate(s) and fence
- (10) Exterior facilities namely flagpole, signboards
- (11) Pavement and curbstone except for the main entrance
- (12) Office furniture, carpets, curtains, and other furnishings
- (13) Office equipment

II. BASIC DESIGN STUDY MISSION

II-1. BASIC DESIGN STUDY MISSION

(a) MEMBERS

Team leader	Kiyoshi KATO	Director Grant Aid Department Japan International Cooperation Agency (JICA)
Acting leader	Nobuhiro KOMATSUBARA	Nikken Sekkei Ltd

(b) DIARY

<u>Date</u>	<u>Day</u>	<u>Description</u>
Feb. 15	Tue.	Flight from Tokyo to Kuala Lumpur
16	Wed.	Meeting in E.P.U.: presentation of the Basic Design Study Report (draft) Meeting in the University of Malaya (U.M.): presentation of the Report Courtesy call to the Japanese Embassy and JICA
17	Thu.	Meeting in U.M.: discussion on the Report
18	Fri.	Meeting in U.M.: discussion on technical aspects Visiting the City Hall: the Mayor promised to expedite Building Permit Procedure
19	Sat.	Meeting in E.P.U.: signing of the Minutes of Discussions Flight from Kuala Lumpur to Jakaruta (Mr. Kiyoshi KATO)
20	Sun.	Preparation of meeting
21	Mon.	Meeting in U.M.: discussion on technical aspects
22	Tue.	Meeting in U.M.: discussion of Memorandum
23	Wed.	Briefing to the Japanese Embassy and JICA
24	Thu.	Flight from Kuala Lumpur to Tokyo

MINUTES OF DISCUSSION

ON

**THE DRAFT REPORT OF THE BASIC DESIGN
STUDY TEAM**

ON

**THE JAPANESE LANGUAGE CENTRE
AT THE UNIVERSITY OF MALAYA**

BETWEEN

THE JAPANESE BASIC DESIGN STUDY TEAM

AND

MALAYSIAN AUTHORITIES CONCERNED

HELD FROM 15-24 FEBRUARY, 1983

IN

KUALA LUMPUR, MALAYSIA

MINUTES OF DISCUSSIONS
ON
THE DRAFT REPORT OF THE BASIC DESIGN STUDY
ON
JAPANESE LANGUAGE CENTRE PROJECT
AT
THE UNIVERSITY OF MALAYA

As a follow-up to the Japan International Cooperation Agency (JICA) Basic Design Survey Team which came to Malaysia from 10th to 29th October, 1982, the Government of Japan, through JICA, sent a Basic Design Study Team (hereinafter referred to as "The Team") headed by Mr. Kiyoshi KATO, Director of Grant Aid Department, JICA from 15th to 24th February, 1983 for the purpose of submitting and explaining to the Malaysian authorities the Draft Final Report of the Basic Design Study (hereinafter referred to as "the Report") on the establishment of the Japanese Language Centre at the University of Malaya.

The Team held meetings with representatives of the Economic Planning Unit, Prime Minister's Department, the University of Malaya and other relevant agencies of the Government of Malaysia to discuss the contents of the Report. Members of both parties who participated in the discussions are listed in Annex I.

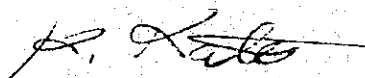
The Report principally satisfied the Malaysian authorities concerned and appropriate amendments agreed to during the discussions would be incorporated in the Final Report. The main items discussed and agreed upon are as follows:-

- (i) The Final Report of the Basic Design Study (20 copies in English) on the establishment of the Japanese Language Centre at the University of Malaya to be submitted to the Government of Malaysia by early April, 1983;
- (ii) Measures be taken by both Governments are shown in Annex II;
- (iii) Structural design of building and design of utilities will be in accordance with local Uniform Building By-laws, British Standards and British Code of Practice unless exempted by the Malaysian authorities concerned. Malaysian laws and regulations should be applied to the design. Local constructions techniques and practice and materials approved by Standard Industrial Research Institute of Malaysia (SIRIM)/ Public Works Department should be used;
- (iv) The Tentative Overall Schedule in page 39 of the Report was agreeable;
- (v) In order to meet the target set out in the Tentative Overall Schedule, the detail design (detail sectional drawings,

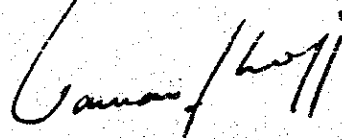
plan and elevation drawings) of the building must be submitted to the relevant Malaysian authorities in good time before the tender date.

- (vi) The Malaysian side understood the system of Grant Aid Programme to be extended by the Government of Japan and confirm the arrangements to be undertaken by the Malaysian side as agreed in the Minutes of the Meeting for the Project dated 16th October, 1982.

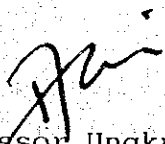
19th February, 1983
Kuala Lumpur, Malaysia.



Mr. Kiyoshi Kato
Leader of the Japanese
Basic Design Study Team



Mr. Kamaruzzaman Shariff
Director External Assistance/
General Services Section
Economic Planning Unit
Prime Minister's
Department.



Royal Professor Ungku A. Aziz
Vice Chancellor
University of Malaya

LIST OF PARTICIPANTSA. JAPANESE BASIC DESIGN STUDY TEAM

- | | | |
|----------------------------|---|--|
| Mr. Kiyoshi Kato
Leader | - | Director,
Grant Aid Department,
Japan International Cooperation
Agency (JICA) |
| Mr. Tomoo Aoyagi | - | Embassy of Japan
Kuala Lumpur |
| Mr. Nobuji Abe | - | JICA Representative
Kuala Lumpur |
| Mr. Nobuhiro Komatubara | - | Nikken Sekkei Ltd. |
| Mr. Takahisa Kato | - | Nikken Sekkei Ltd. |
| Mr. Hideyuki Hatakeyama | - | Nikken Sekkei Ltd. |

B. MALAYSIAN OFFICIALSI. Economic Planning Unit,
Prime Minister's Department

- | | | |
|----------------------------|---|---|
| Mr. Abdul Rahim Hj. Din | - | Deputy Director General
(Sectoral) |
| Mr. Kamaruzzaman Shariff | - | Director,
External Assistance/General
Services Section. |
| Mr. Lim Boon Kang | - | Director,
Technical Services Section. |
| Mrs. Zainab Abdul Karim | - | Principal Assistant Director,
Social Services Section. |
| Mr. Mohd. Aminuddin Hashim | - | Assistant Director,
External Assistance Section. |
| Mr. Mohd. Jamal Sulaiman | - | Civil Engineer,
Technical Services Section. |
| Mr. Abdul Manaf Hussin | - | Assistant Director,
Social Services Section. |

II. Ministry of Education

- Mr. Houd Hj. Sirat - Principal Assistant Secretary,
Higher Education Division.
- Mr. Mohd. Yusof Mydin - Assistant Secretary,
Development and Supplies
Division.
- Mr. Sukhdev Singh - Assistant Secretary,
Higher Education Division.

III. University of Malaya

- Royal Professor YM. Ungku
A. Aziz - Vice Cancellor

IV. Ministry of Foreign Affairs

- Mr. Zulkifli Adnan - Assistant Secretary,
Political Division (Japan)

V. Implementation Coordination Unit
Prime Minister's Department

- Mr. Mohamad Hamzah - Assistant Director,
Infrastructure Division.

VI. City Hall Kuala Lumpur

- Miss Faridah Suleiman - Building Surveyor,
Building Control Department.
- Mr. Mohd. Kasim Mazlipah
Hj. Abd. Rahman - Technical Assistant,
Planning Department.

A. Measures to be taken by the Japanese Government.

1. The Japanese Language Centre facilities to be built under the Grant Aid will cover the following:-

<u>Location</u>	<u>Number of Rooms</u>	<u>Total Floor Area (M²)</u>
Lecture Theatre	1	275
Classroom	1	155
Tutorial Rooms	6	150
Language Laboratory	1	50
Coordinator's Office	1	35
Administration Office	1	45
Lecturer's Office	3	170
Meeting Room	1	25
Reception Room	1	15
Workshop	1	15
Library & Display	1	45
Common Room	1	30
Store Room	1	15
Machine Room	1	75
Toilets	2	40
Total	21 ==	1,140 =====

2. Provision of the following Educational Equipment:-

a. Lecture Theatre

.16mm film sound projector	1 set
.Screen	1 set

b. Classroom	
.Screen	1 set
c. Language Laboratory	
.Booth (desk, chair)	25 sets
.Microphone	25 "
.Booth recorder	25 "
.Headphone	25 "
.Master console	1 set
.Room speaker	1 "
.Amplifier	1 "
.Slide projector	1 "
.Slide tape recorder	1 "
.Screen (Standard type)	1 "
.Desk and chair for lecturer	1 "
d. Workshop	
.Copy machine	1 set
.Word processor	1 "
.Tape copy equipment	1 "

3. Design and supervision

4. Construction.

B. Work items to be provided by the Malaysian Authority i.e.

The University of Malaya:-

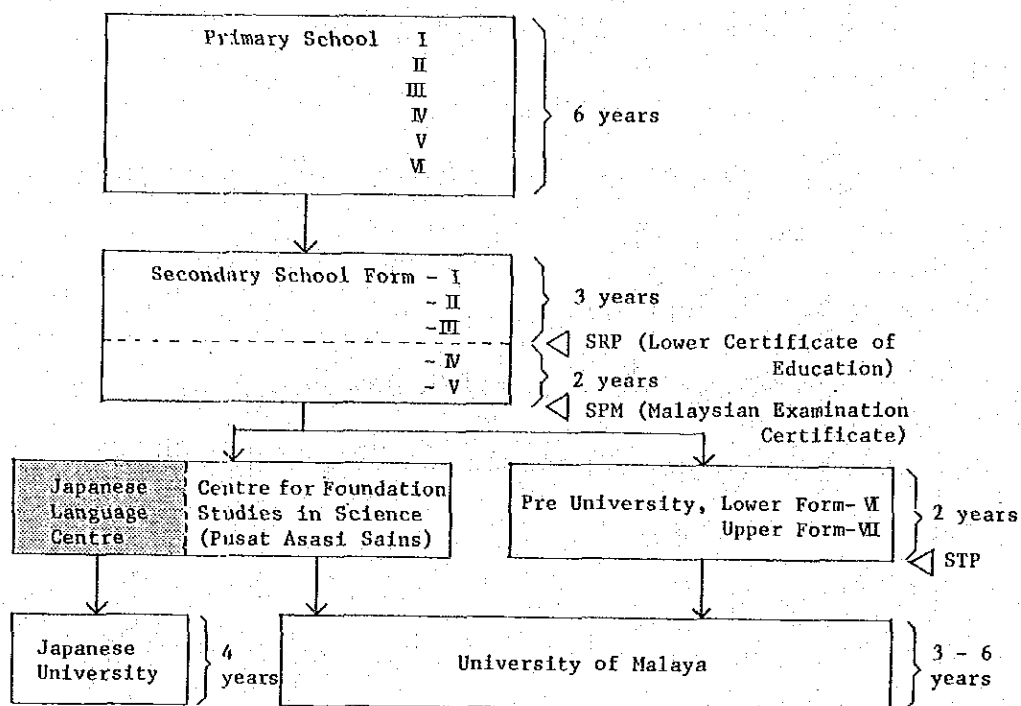
- (i) Demolishing and removal of obstacles in the Site including underground obstacles.
- (ii) Landfilling, cutting and grading.
- (iii) Access and approach road construction.
- (iv) Soil test and other geological test.
- (v) Electrical power supply including transformer.
- (vi) Water supply to the buildings.
- (vii) Sewerage connection to the city pipe after

the septic tank.

- (viii) Telephone trunk line to the main distribution board in the building.
- (ix) Landscaping and gardening.
- (x) Gate(s) and fence.
- (xi) Exterior facilities namely flagpole, signboards.
- (xii) Office furniture, carpets, curtains and other furnishings.
- (xiii) Office equipment.
- (xv) Formation of Site Works Committee.
- (xiv) Maintenance, operation and running cost for facilities.

III. CURRENT STATUS OF JAPANESE LANGUAGE EDUCATION AT THE UNIVERSITY OF MALAYA

EDUCATION SYSTEM OF MALAYSIA



OUTLINE OF THE UNIVERSITY OF MALAYA

- . One of the tertiary academic institution in Malaysia
- . Year of establishment: 1962
- . Campus area: 3,000,000 m²
- . Departments: 10 faculties including social science, engineering, science, medicine, law, economics, education, etc.
3 centres and one institute and one Academy
- . Number of students: 9,400 including 516 post-graduate degree candidates

CURRENT STATUS OF JAPANESE EDUCATION

. For all university students:

Number of students	about 170
Number of instructors	4 (including 2 Japanese)
Language laboratory	3 (80 booths)
Class Hour	4 hours/week, 2 years

. For Pre-University students only:

Number of students	about 20
Number of instructors	1 (Japanese)
Language laboratory	12 hours/week, 2 years

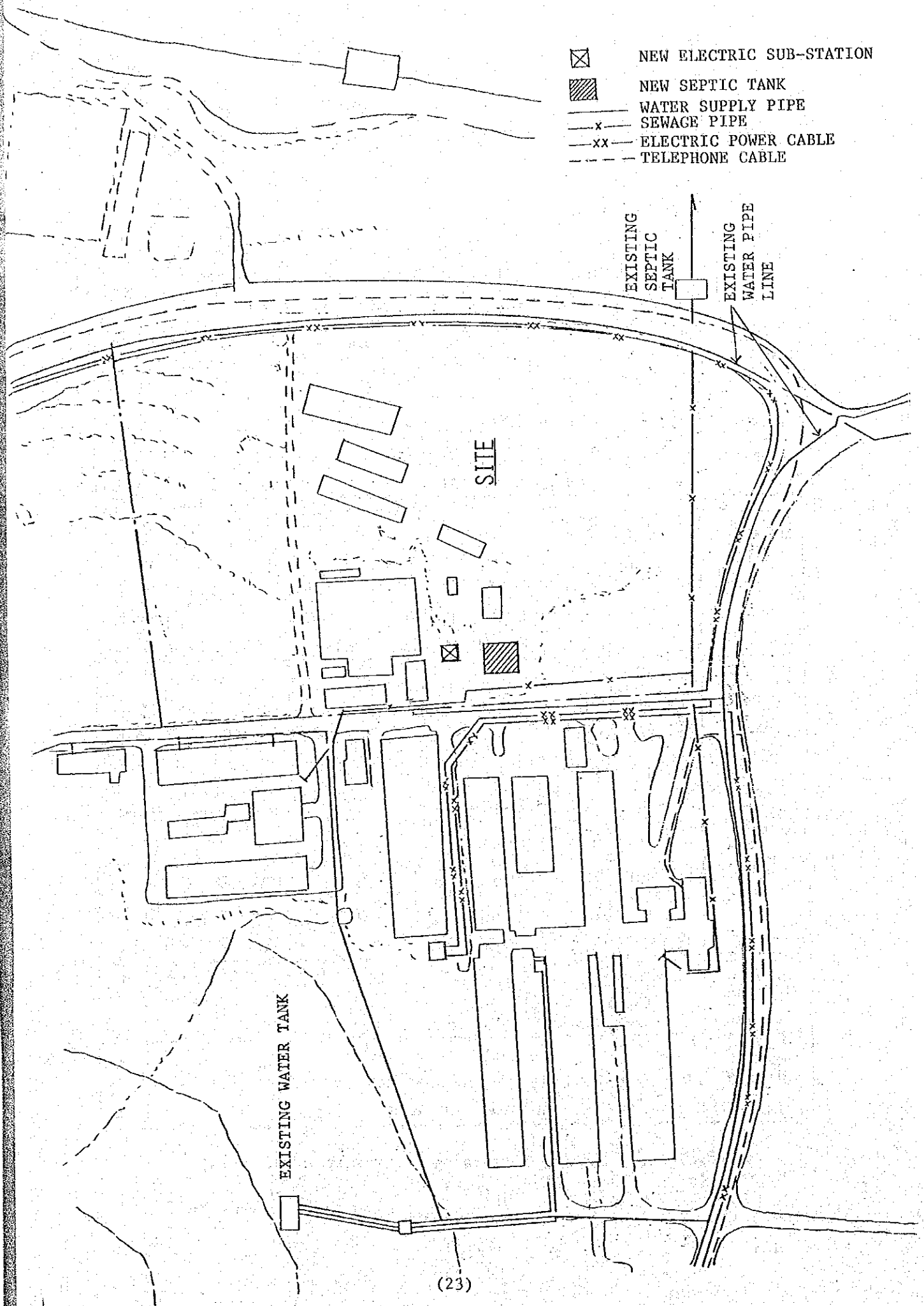
OUTLINE OF PRE-UNIVERSITY

- . Objective and Position:
 - school attached to the University of Malaya
 - gives local Malaya students who are the candidates for the university education prerequisite to entry into the departments of engineering, physical, medicine and dentistry
- . Education Period:
 - 2 years
 - 700 students of science major studying currently
- . Subjects:
 - physics, mathematics, chemistry, English and Japanese (or biology)

. Class Hour:

- 24 hours/week for the study of physics, mathematics, chemistry and English
- in Japanese language course, additional 12 hours/week are given for the study of Japanese

IV. EXISTING UTILITY SERVICE PLAN IN THE UNIVERSITY OF MALAYA



V. METEOROLOGICAL DATA IN KUALA LUMPUR

(1968 - 1980)

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Av.
Temperature (°C)													
Mean max.	31.9	32.8	33.0	32.8	32.7	32.3	31.9	32.0	31.8	31.7	31.2	31.2	32.1
Mean min.	21.8	21.9	22.4	23.1	23.3	22.9	22.5	22.5	22.6	22.7	22.8	22.3	22.6
Mean	25.9	26.3	26.6	26.8	27.0	26.7	26.4	26.4	26.2	26.2	25.9	25.8	26.3
Relative Humidity (%)													
Mean max.	98.6	98.2	98.4	98.4	98.2	98.1	97.8	97.9	98.3	98.7	98.9	98.9	98.4
Mean min.	52.5	49.4	51.6	56.2	57.4	57.3	57.1	55.8	57.5	57.8	60.6	58.5	56.0
Mean	82.6	81.2	82.4	84.9	84.3	83.9	83.4	83.1	84.6	85.5	86.9	85.7	84.0
Rainfall (mm/month)													
Max.	934	476	657	335	390	380	404	367	388	581	1024	1462	617
Min.	9	3	4	20	63	63	13	63	139	71	147	115	59
Average	356	171	162	173	193	167	157	175	234	277	330	603	250
Rainday (day/month)													
Max.	14	12	11	9	10	9	10	10	12	14	16	22	12.4
Min.	0	0	0	1	2	2	0	2	1	2	5	2	1.4
Average	6.8	4.3	4.2	4.7	5.7	4.7	4.9	5.5	7.2	8.7	9.2	10.8	6.4
Wind velocity													
Max. (m/s)	7.0	8.0	10.0	12.0	14.0	10.0	11.0	9.0	-	17.0	-	-	10.9
Wind direction													
Max.	N-NW	NW, NE	N-NW, S	N-NW, N	N-NW	SW, NW	NW, SE	-	N, S	-	-	-	-

(Meteorological Data by Meteorological Agency in Malaysia)

VI. QUALITY OF CITY WATER IN THE UNIVERSITY OF MALAYA

Recommendation:

One or more coliform organisms in a 100 ml sample of water can be permitted in 5% of samples examined, provided that a positive result is not obtained in two or more consecutive samples and that at least 100 samples of 100 ml each, regularly distributed over the year, are examined.

PHYSICAL & CHEMICAL

<u>Substance</u>	<u>Upper Limit of Concentration</u>
Lead	0.1 mg/l
Arsenic	0.2 mg/l
Selenium	0.05 mg/l
Chromium (hexavalent)	0.05 mg/l
Cadmium	0.05 mg/l
Cyanide	0.01 mg/l
Radioactivity	
Alpha-emitters	1 picocurie/liter
Beta-emitters	10 picocuries/liter
Fluoride	1.5 mg/l
Nitrate (as NO ₃)	50 mg/l
Copper	0.05 mg/l
Iron	0.1 mg/l
Manganese	0.1 mg/l
Zinc	5.0 mg/l
Magnesium	30 mg/l
Sulfate	250 mg/l
Chloride	350 mg/l
Phenolic compounds (as phenol)	0.001 mg/l
Substances of which the level should preferably be controlled.	
Ammonia	0.5 mg/l
Free carbon dioxide	0
Dissolved oxygen	keep level above 5
Total hardness	100 - 500 mg/l

VII. UNIT COST OF ELECTRICITY AND CITY WATER

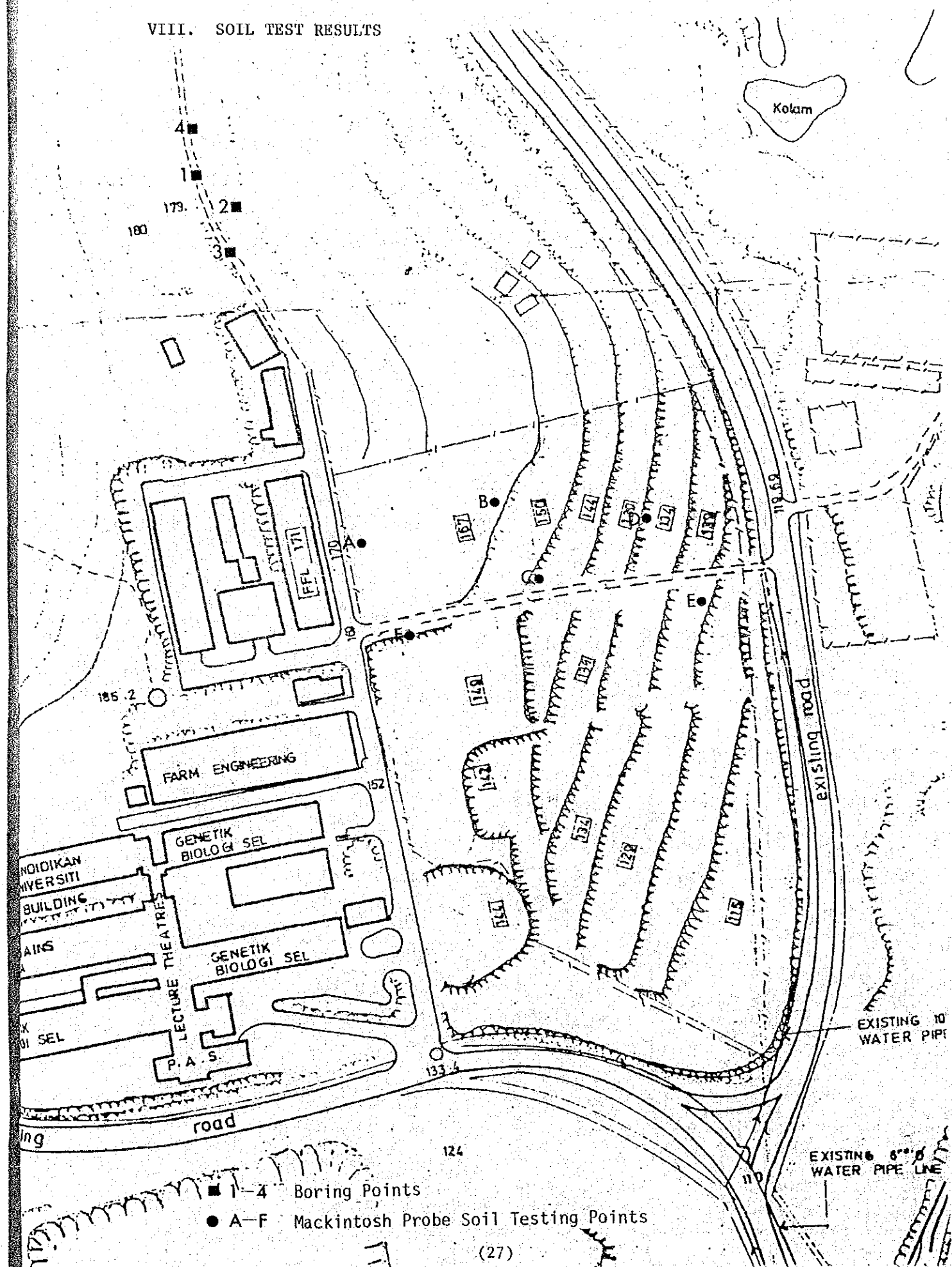
. Electricity:

Demand charge	12 MD/KVA
Energy charge	0.25 MD/KWH

. City water:

Demand charge	2 MD/1,000 Gallon
Volume charge	1.2 MD/1,000 Gallon

VIII. SOIL TEST RESULTS



PROPOSED LECTURE THEATRE COMPLEX AND LECTURERS BLOCK.
FOR PUBAT ASASI SAINS, UNIVERSITY OF MALAYA.

(28)

ECT Soil Investigation for M.U. Sains.

Institute Pengajian Tinggi, University Malaysia.

Location:
Type of Rig/Boring: Rotary/Dayles 105-10

Casing Details:

Ground level:

BORE-HOLE NO. 88-1

SHEET 1 OF 2

Date: 6-6-82 to 7-6-82

Weather:

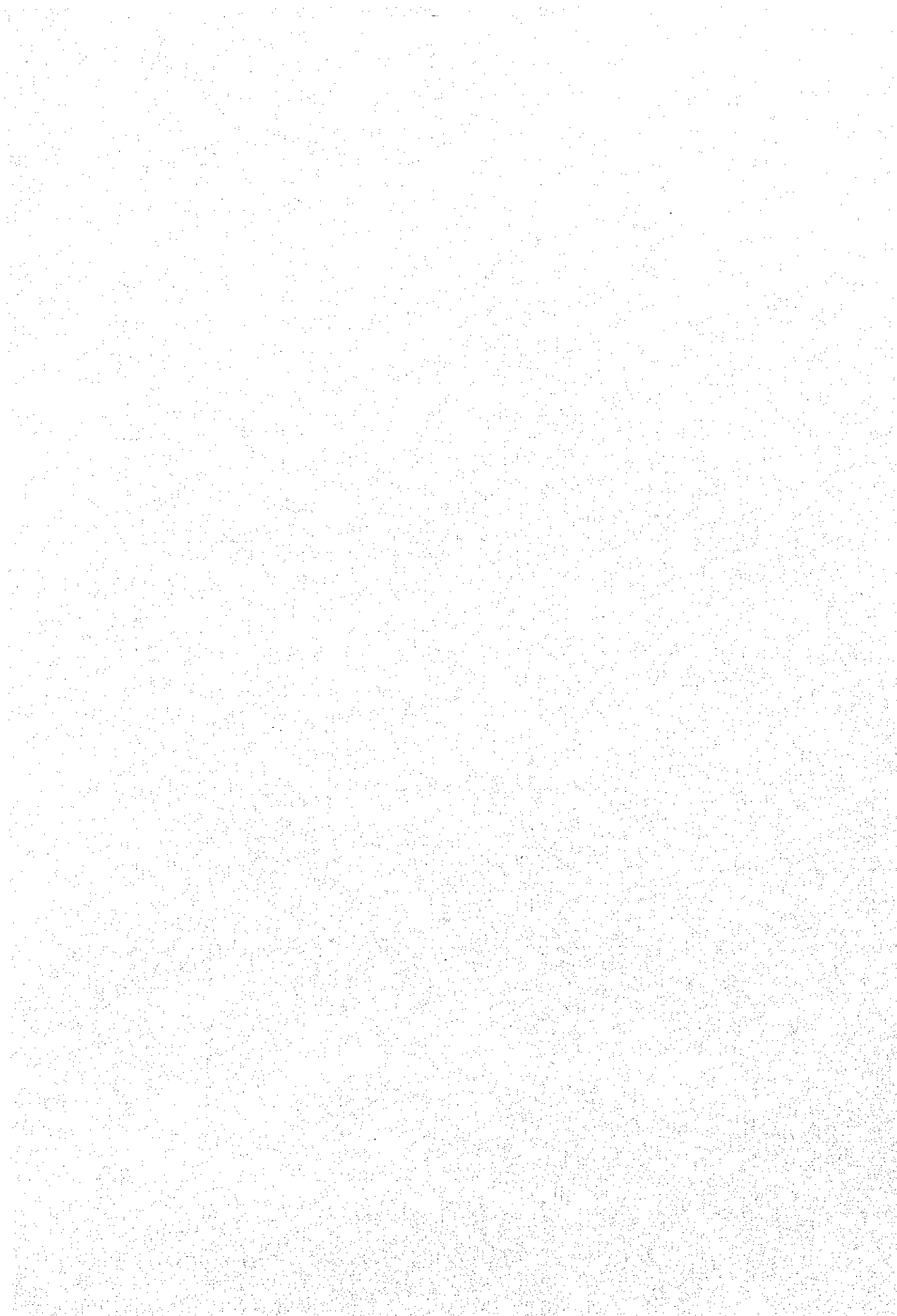
Grd. Water Level: 4' 6"

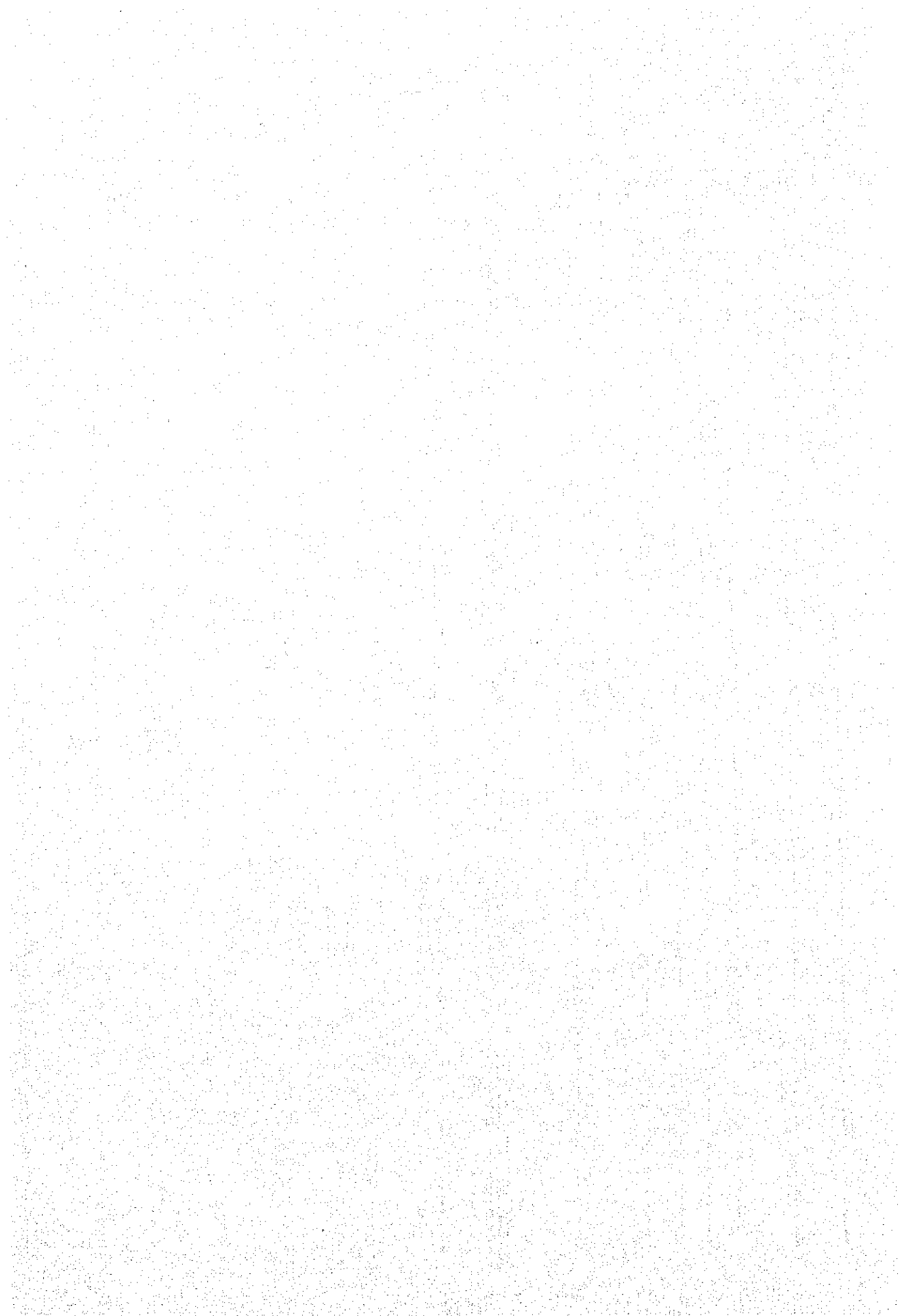
Depth		Thickness of Strata	Visual Description	Log	Field Tests And Sampling						
ft	In				Depth	Sample No.	S.P.T. (N) Blows				Recovery Ratio
							6"	6"	6"	N	
ft In					ft In						In
16' 0"	16' 0"	16' 0"	Reddish brown, firm clayey SILT with some sand and gravels.	X X X X X X X X X X X X X X X X X X X X	5' 0"	P1/U1	2	4	4	8	Full
					6' 6"						
					10' 0"	P2/U2	3	6	5	11	15/18
					11' 6"						
					15' 0"	P3/U3	4	7	9	16	13/18
					16' 6"						
					20' 0"	P4/U4	5	7	9	16	13/18
					21' 6"						
					25' 0"	P5/U5	6	7	9	15	15/18
					26' 6"						
30' 0"	P6/U6	11	20	16	36	7/18					
31' 6"											
30' 0"	30' 0"	30' 0"	Yellowish brown, dense silty fine to coarse SAND.	X X X X X X	35' 0"	P7/U7	13	18	19	37	10/18
					36' 6"						

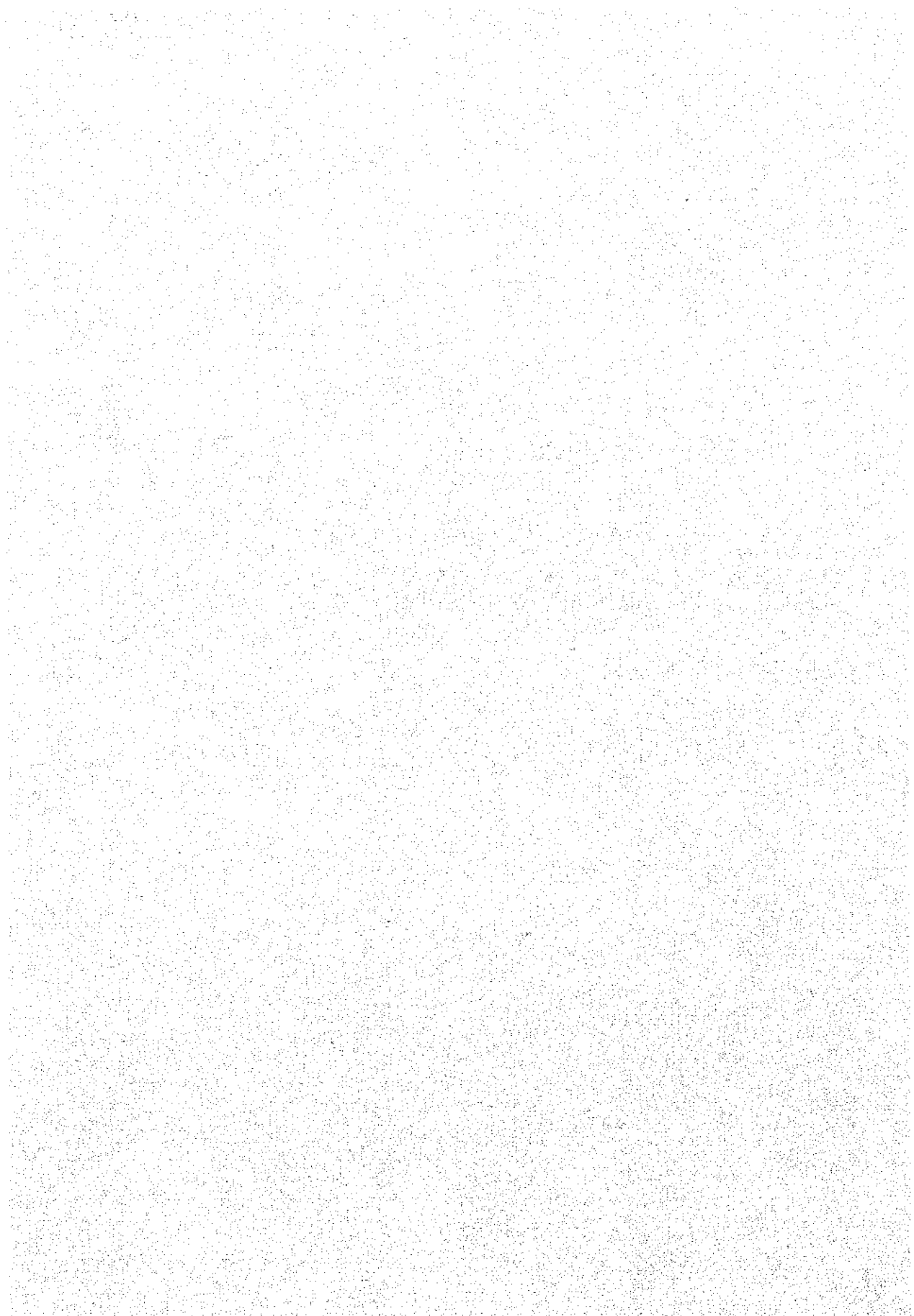
casing Details

Ground level

Depth	Thickness of Strata	Visual Description	Log	Sampling & Recovery	Field Tests And Sampling							
					Depth	Sample No.	S.P.T. (N) Blows				Recovery Ratio	
							6"	6"	6"	N		
ft	in				ft	in					in	
			X		40'0"		P8/D8	11	20	30/3"	50/9"	8/15
			X		41'3"							
					45'0"							
			X		46'6"		P9/D9	15	20	24	44	8/18
			X									
					50'0"							
			X		51'3"		P10/D10	22	30	20/3"	50/9"	7/15
			X		55'0"							
			X		56'3"		P11/D11	24	33	17/3"	50/9"	7/15
			X									
					60'0"							
			X		61'0"		P12/D12	12	50/6"		50/6"	7/12
62'0"			X									
			X X									
			X X									
			X X		65'0"							
			X X				P13/D13	8	19	31	50	11/18
66'6"			X X		66'6"							
								</				







JICA