

ANNEX II

Items whose costs will be covered by the Government of the Philippines for the Project:

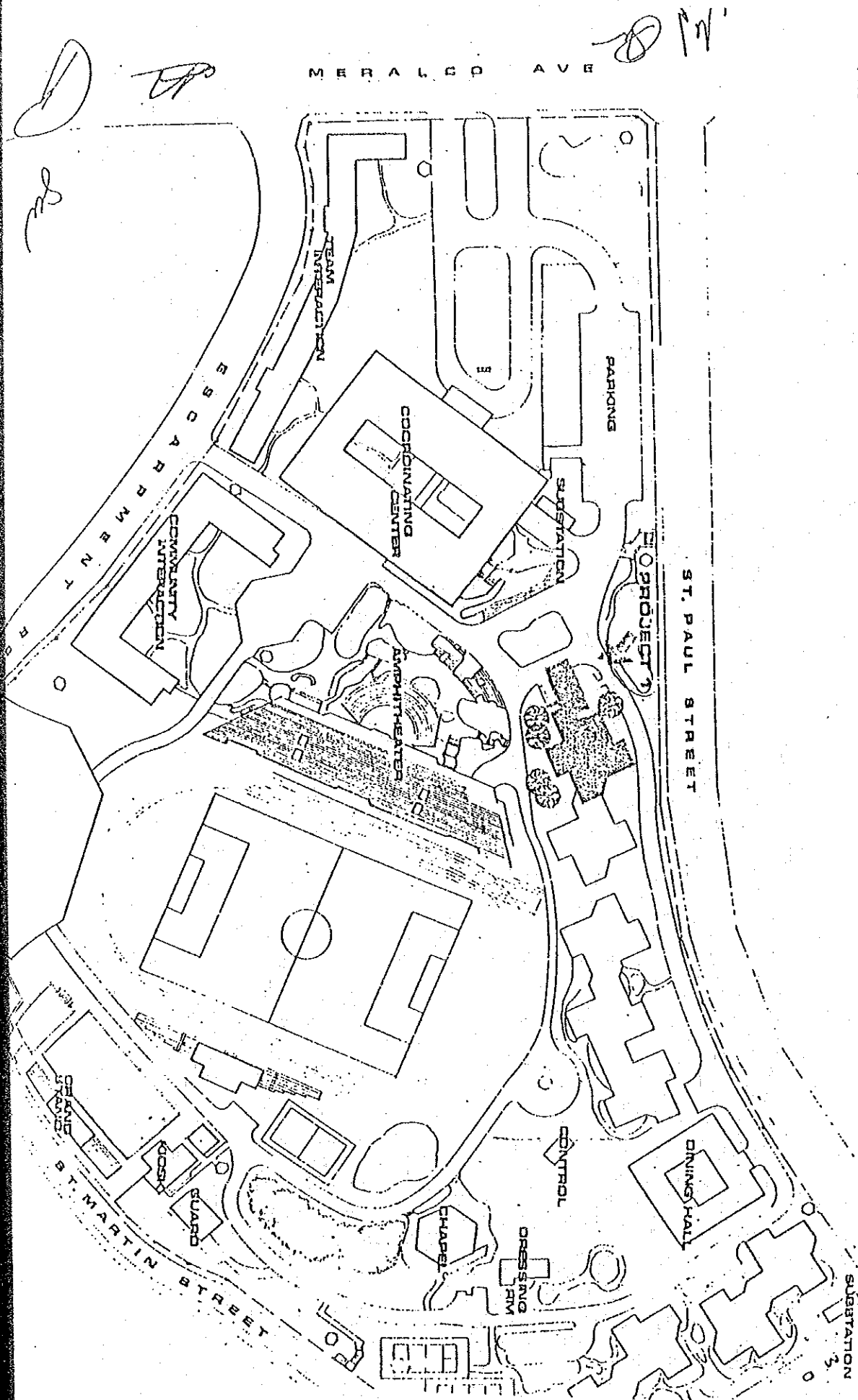
- (1) Water supply mains to the Project sites or deep-well in the site.
- (2) External drainage from the project site.
- (3) Electrical power supply to the buildings.
- (4) External facilities and landscaping.
- (5) Provision of space necessary for construction and renovation (temporary offices, working area, stock yards and others)
- (6) Furniture, carpet, curtains and other furnishings.
- (7) Maintenance, operation cost and expenses.
- (8) Telephone lines to the buildings.

W.M.
[Signature]

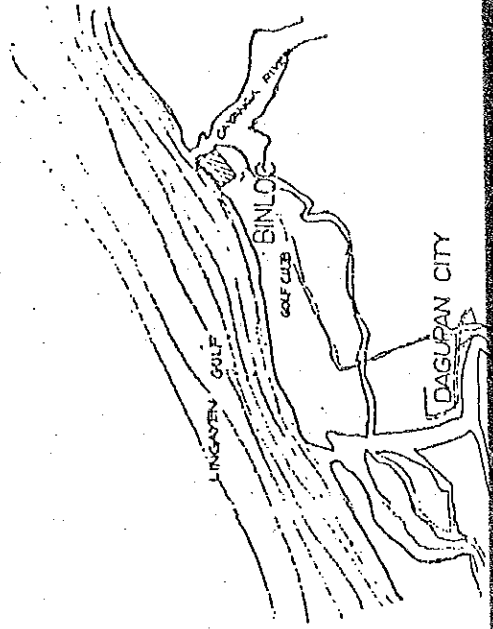
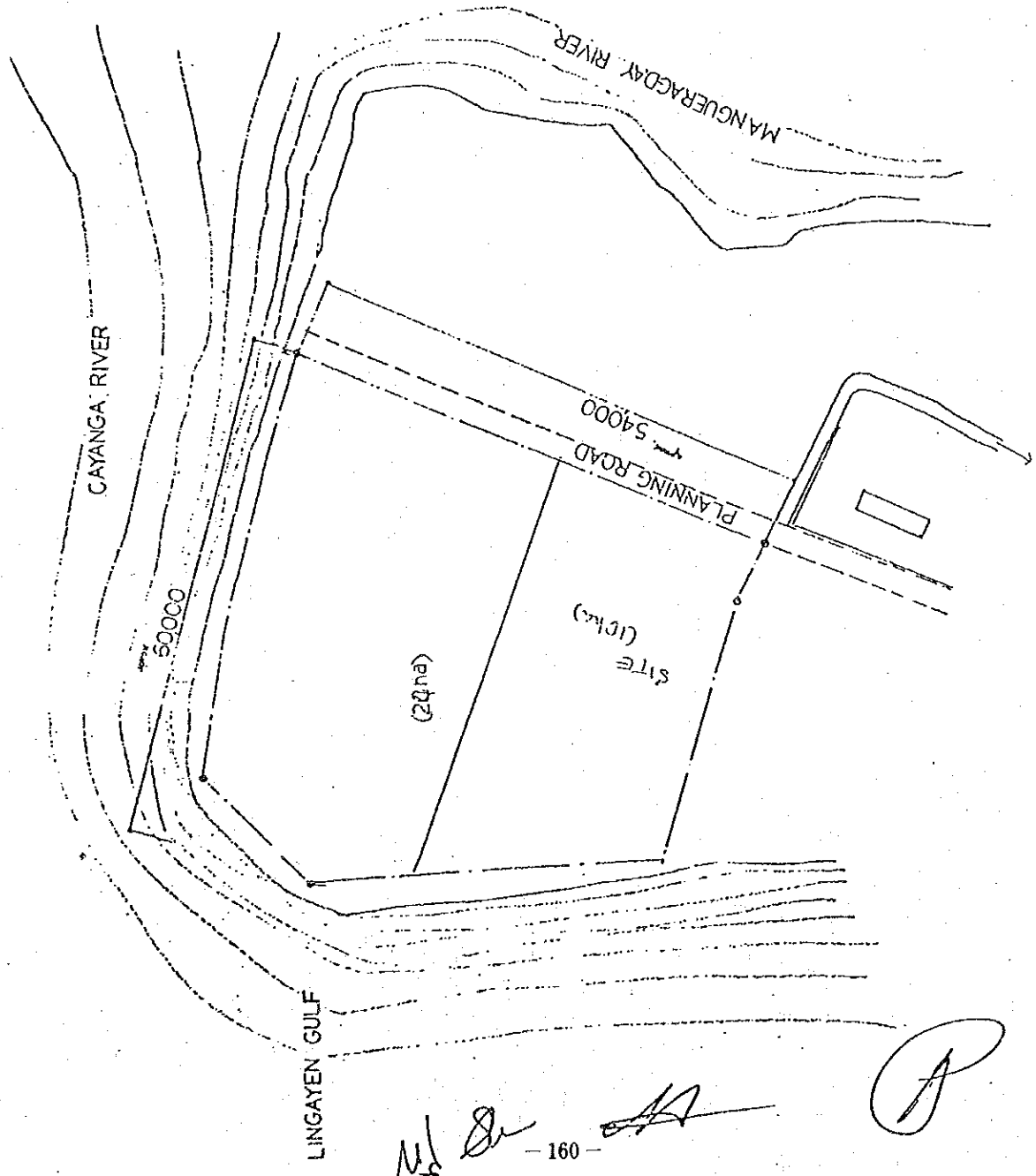
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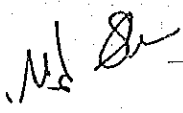
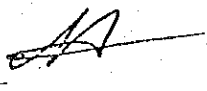
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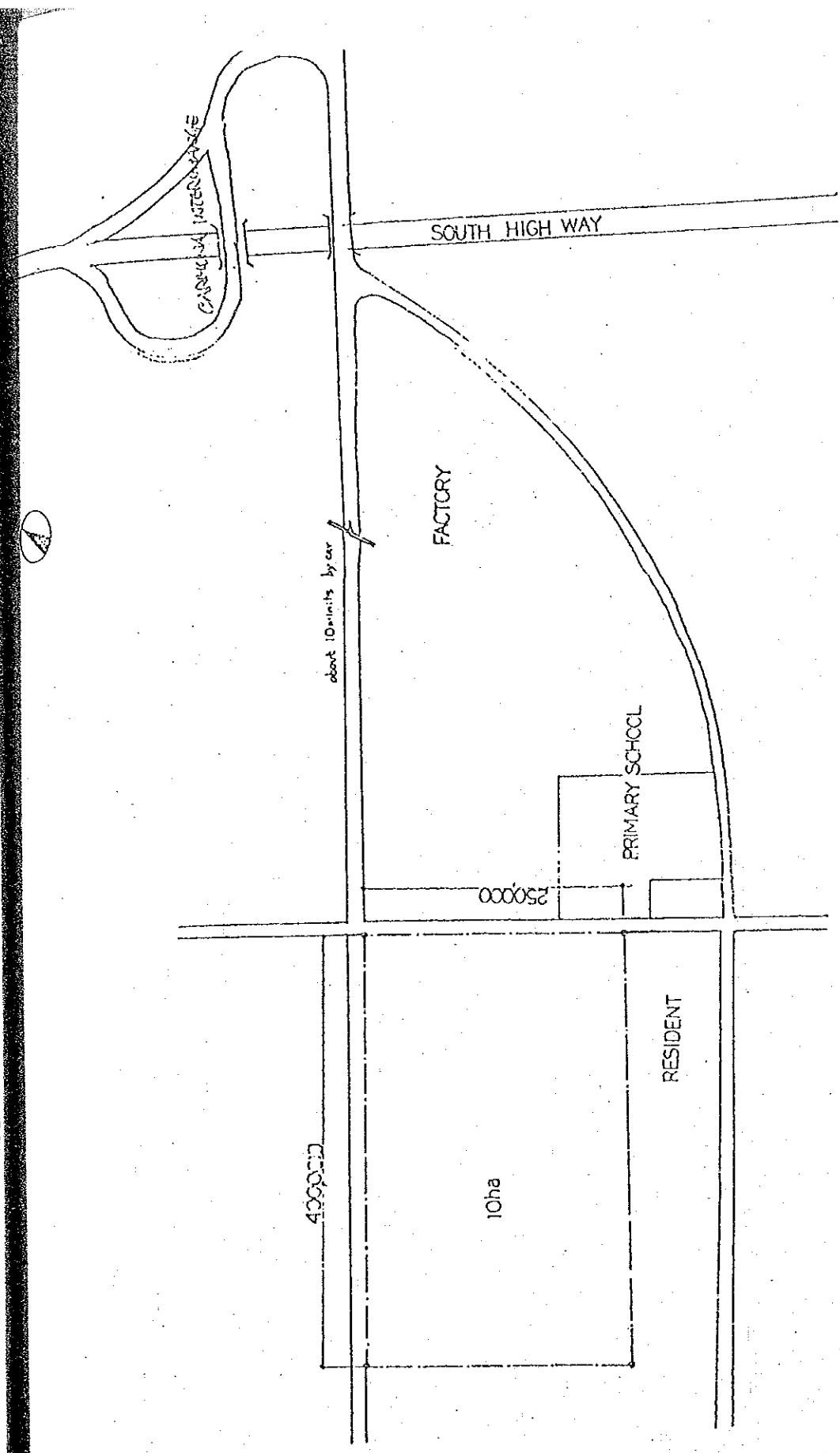
TRUCKWAY - BINLAW, DAGUPAN CITY





TO DAGUPAN CITY DIST. 8 km



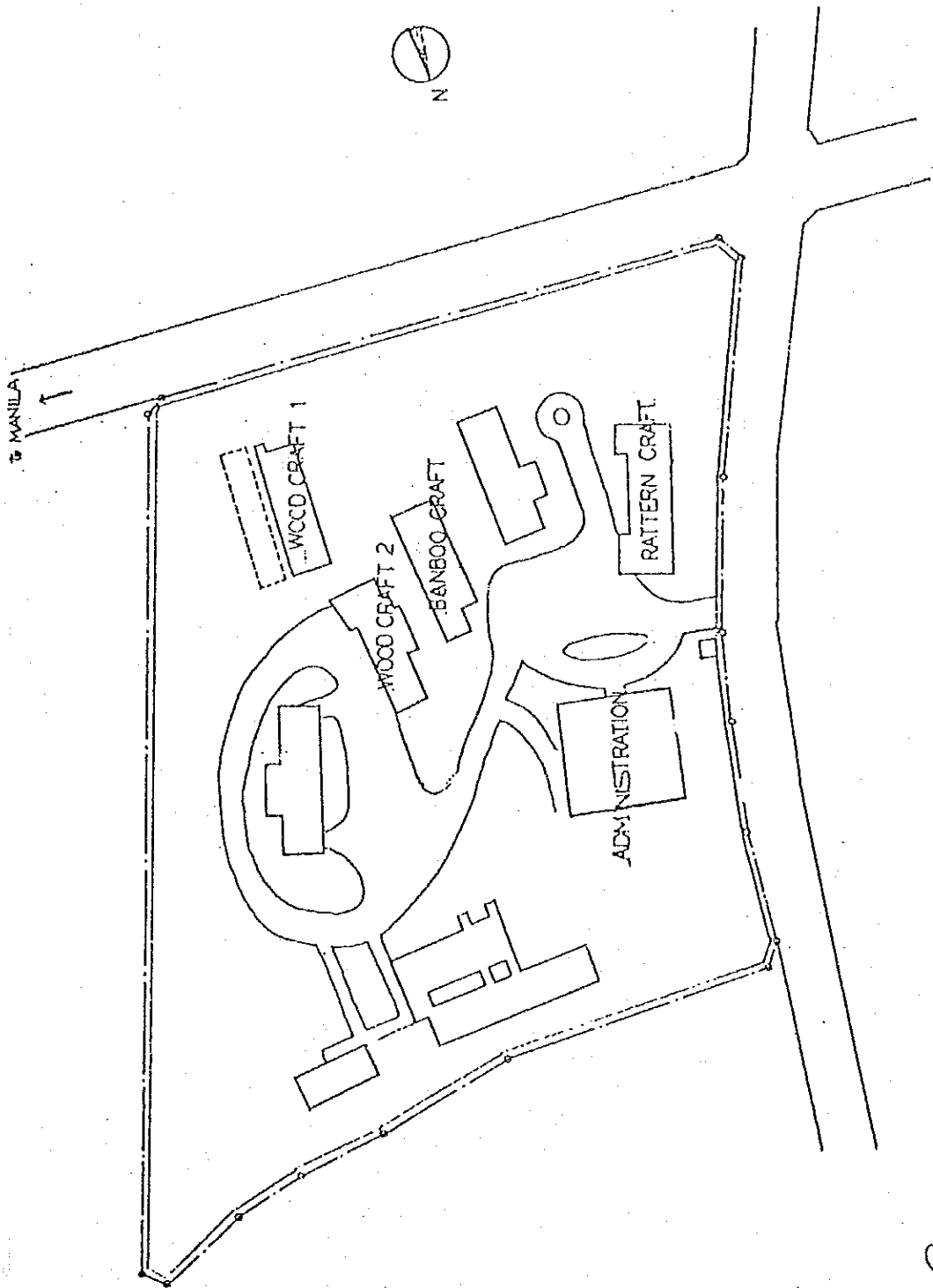
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PROGRAM-4 CITC (NACIDA), MARIKINA, METRO-MANILA



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本設計確認調査団 名簿及び日程

調査員 今津 武 団長 JICA基本設計調査課長代理
渡辺 衛夫 (株)日建設計 海外業務室長
藤戸 賢治 (株)日建設計 設備部

程

- 12月12日(日) Manila着 (PR 431)
- 12月13日(月) 日本大使館, 在比JICA 打合せ
基本設計報告書(ドラフト)をPHRDC, 各プログラムに配布
- 12月14日(火) プログラムⅢ 敷地調査
プログラムⅣ 機材打合せ
- 12月15日(水) 今津氏 フィリピン到着
general meeting
プログラムⅡ 打合せ
- 12月16日(木) プログラムⅠ 打合せ
プログラムⅢ 打合せ
- 12月17日(金) general meeting
M/Dの交換
日本大使館, 在比JICAに報告
- 12月18日(土) プログラムⅣ 打合せ
- 12月19日(日) 資料まとめ 団内打合せ
- 12月20日(月) 現地設計事務所と打合せ
プログラムⅣ 日本人専門家と打合せ
日本大使館, 在比JICA訪問
- 12月21日(火) 現地設計事務所と打合せ
マニラ発 (PR 432)

8) 基本設計確認調査 MINUTES OF DISCUSSIONS

MINUTES OF DISCUSSIONS

ON

THE DRAFT REPORT OF THE BASIC DESIGN STUDY

ON


THE PHILIPPINE HUMAN RESOURCES DEVELOPMENT CENTER PROJECT

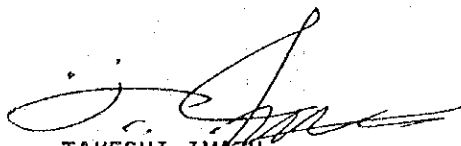
The government of Japan has sent, through Japan International Cooperation Agency (JICA), a Basic Design Study Team to the Philippines from 17 to 21 December, 1982 for the purpose of presenting and explaining the draft of final report of the Basic Design Study (the report) on the Philippine Human Resources Development Center Project in the Republic of the Philippines.

The team held meetings with the Philippine technical panel composed of representatives from the Ministry of Human Settlements, University of Life, National Cottage Industries Development Authority, Construction Manpower Development Foundation and the Ministry of Foreign Affairs to explain and to discuss on the report. As a result of the discussions, both parties have agreed as follows:

1. The report principally satisfied the Philippine side and appropriate alterations in design agreed during the discussions will be incorporated in the Final Report.
2. The Final Report (15 copies in English) on the project will be submitted to the Philippine Government by the end of February, 1983.
3. The Basic Design Survey Team and the Government of the Republic of the Philippines understood and confirmed the measures to be undertaken by both parties for the project.

17 December, 1982


GRACE E. DE VERA
Acting Secretary-General
Philippine Human Resources
Development Center Project


TAKESHI IMAZU
Leader, Survey Team
Philippine Human Resources
Development Center Project

PHRDC

GOVERNING COUNCIL	
MIS	JOSE CONRADO BENITEZ
PFA	PACIFICO A. CASTRO
MB	LUIS R. BALTAZAR
MF	RODOLFO OCAMPO
MA	AURORA B. MARCOS
FHC	ARNOLD CAULLI
MITI	JOSE P. LEVISTE, JR
NEDA	RAMON E. CARDENAS
UL	EYNESTO A. FRANCO (REPRESENTATIVE OF JCB)

JOINT STEERING COMMITTEE		
MNR	ANTONIO CAPAY	Japanese Steering Group - Chief Advisor
MITI	SANTI M. DAPUL	
NACIBA	MARIO R. REYES	- Program Leaders - Representative of Japanese Embassy
CPDF	SYVELYN TAN	
NEDA	ALFONSO V. CASIMIRO	- Head of JICA Manila Office
UL	PANUEL C. BEMULLA	
	REGINALD S. VELASCO	
	ANICETO M. SOBREPEÑA	
	ANTONIO V. ULGADO	

COMMISSION ON AUDIT
(C.O.A.)

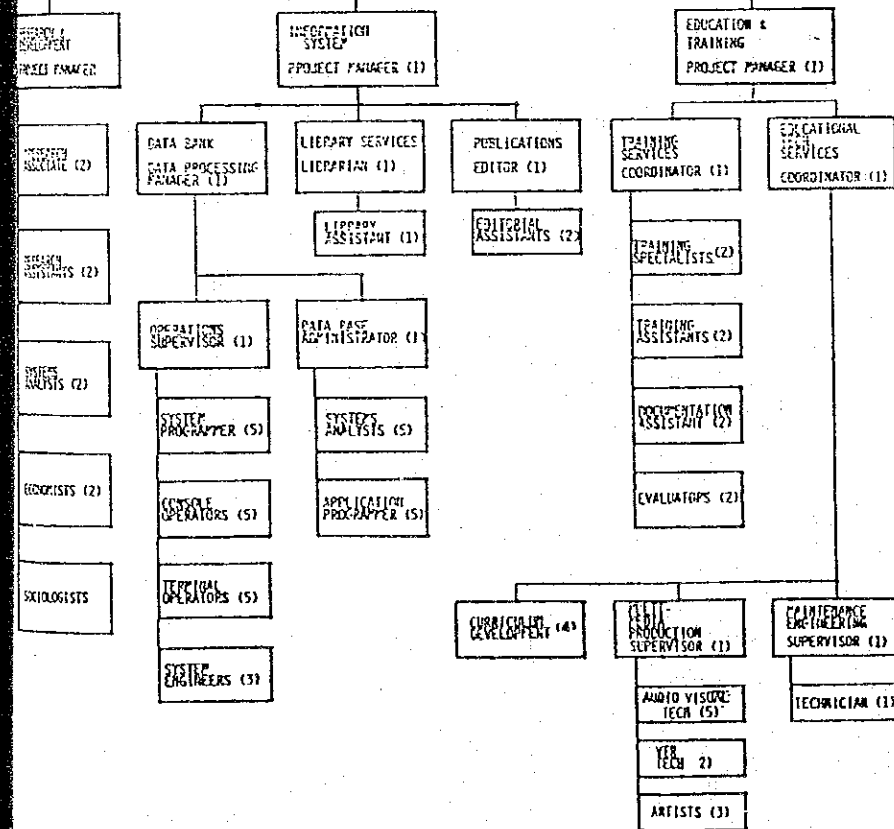
SECRETARY GENERAL
MANAGEMENT & PLANNING OFFICE
FINANCE/ADMN OFFICE

EXECUTIVE STAFF

PROGRAM 1

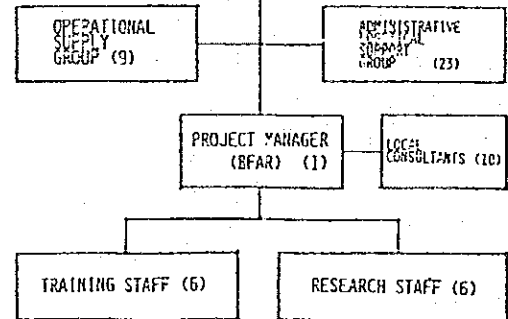
HUMAN RESOURCES
MANAGEMENT & DEVELOPMENT OFFICE
PROJECT DIRECTOR (1)

CONSULTANTS



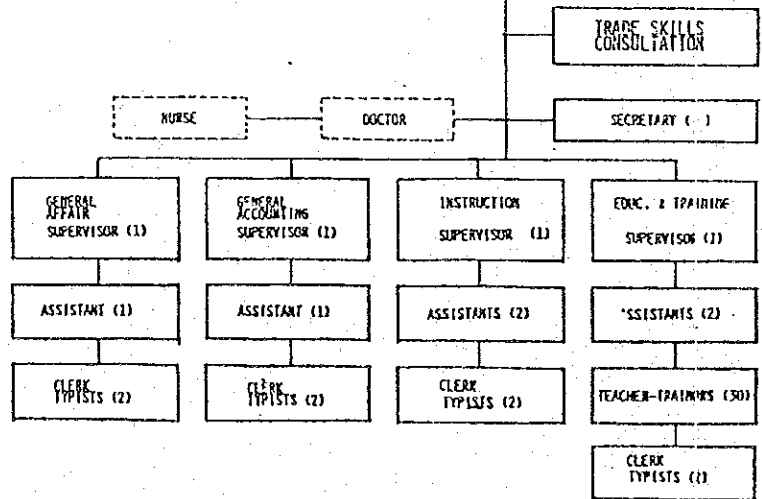
PROGRAM 2

PROGRAM DIRECTOR (1)
(PHR)



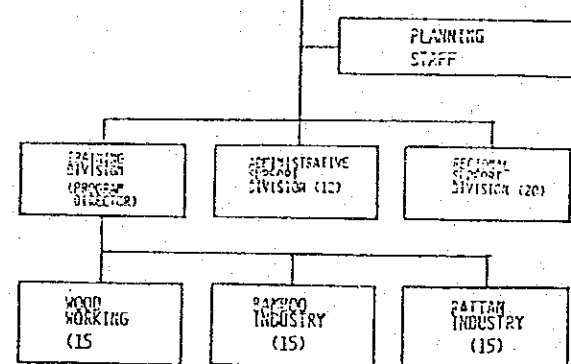
PROGRAM 3

CPDC DIRECTOR
(PROGRAM MANAGER)



PROGRAM 4

HCITC MANAGER



* The Organization is subject to change by final decisions

フィリピン共和国カウンターパートリスト

PHILIPPINE HUMAN RESOURCES DEVELOPMENT CENTER
MEMBERS OF THE GOVERNING COUNCIL

MHS	-	Jose Conrado Beritez
MFA	-	Pacifico A. Castro
MB	-	Luis R. Baltazar
MF	-	Rodolfo Ocampo
MA	-	Aurora B. Marcos
MNR	-	Arnold Caoili
MITI	-	Jose P. Leviste, Jr.
NEDA	-	Ramon B. Cardenas
UL	-	Ernesto A. Franco (representative of JCB)

PHILIPPINE HUMAN RESOURCES DEVELOPMENT CENTER
MEMBERS OF THE STEERING COMMITTEE

MHS	-	J. Roberto Abling/or Reynaldo Bantug
MFA	-	Josue L. Villa
MB	-	Gerardo Zafra/or Ramon Bacani
MF	-	Rodolfo Ocampo
MNR	-	Antonio Capay/or Orlando Meneses
MITI	-	Santi M. Dapul
NACIDA	-	Ernesto Payoyo
CMDF	-	Alfonso V. Casimiro/or Manuel C. Remulla
NEDA	-	Reginald S. Velasco/or Aniceto M. Sobrepena
UL	-	Antonio V. Ulgado

DIRECTORY OF PHRDC MEMBERS OF THE
GOVERNING COUNCIL & STEERING COMMITTEE

Abling, J. Roberto	-	Asst. Secretary Ministry of Human Settlements
Bacani, Ramon	-	Office-in-Charge Training & Info Service & Research Staff Ministry of the Budget
Baltazar, Luis R.	-	Deputy Minister Ministry of the Budget
Bantug, Reynaldo P.	-	Director, Project Development Office Ministry of Human Settlements
Benitez, Jose Conrado	-	Deputy Minister Ministry of Human Settlements
Caoili, Arnold	-	Deputy Minister Ministry of Natural Resources
Capay, Antonio	-	Director Foreign Assisted Projects Management Unit Ministry of Natural Resources
Cardenas, Ramon B.	-	Deputy Director-General NEDA
Casimiro, Alfonso V.	-	Chairman, Construction Manpower Development Foundation
Sobrepena, Aniceto M.	-	Acting Director Policy Coordination Staff NEDA
Tan, Syvelyn	-	Special Asst. to the Chairman and Corporate Board Secretary NACIDA
Ulgado, Antonio V.	-	Vice-President Organizational Development University of Life
Velasco, Reginald S.	-	Chief, International Division, Policy Coordination Staff, NEDA
Villa, Josue L.	-	Director-General for Economic Affairs Ministry of Foreign Affairs

- Zafra, Gerardo - Officer-in-Charge
Office of the Asst. Director
Management Office
Ministry of the Budget
- Castro, Pacifico A. - Deputy Minister
Ministry of Foreign Affairs
- Dapul, Santi M. - Office of the Minister
Ministry of Trade & Industry
- Franco, Ernesto A. - Executive Vice-President
University of Life
- Leviste, Jr., Jose P. - Deputy Minister
Ministry of Trade & Industry
- Meneses, Orlando - Executive Assistant
Foreign Assisted Projects
Management Unit
Ministry of Natural Resources
- Ocampo, Rodolfo - Special Technical Asst.
to the Minister of finance
Ministry of Finance
- Remulla, Manuel C. - Executive Officer
Construction Manpower
Development Foundation
- Reyes, Mario R. - Administrator
NACIDA

MEMBERS (PHRDC)

- Ambassador Josue L. Villa - Director-General for
Economic Affairs
Ministry of Foreign Affairs
- Ms. Farita A. Cabazor - Vice-Consul, ASEAN National
Coordinating Agency
Ministry of Foreign Affairs
- Ms. Grace E. de Vera - Vice-President
University of Life
Ministry of Human Settlements
- Ms. Má. Luisa Echevarria - Official
KKK National Secretariat

Mr. Eduardo Morato - General Manager
Human Settlements Development
Cooperation
Ministry of Human Settlements

Mr. Jose Eduardo Alarilla - Department Manager
Financial Sourcing and Packaging
Financial and Corporate
Planning Services - HSDC
Ministry of Human Settlements

PROGRAM I

- Ms. Grace E. de Vera - Vice-President
University of Life
Ministry of Human Settlements
- Mr. Bento F. Estacio Jr. - Vice-President
University of Life
- Ms. Phoebe T. Anderson - Managing Director
Lifelong Education Program
University of Life
Ministry of Human Settlements
- Ms. Violeta A. Laraya - Managing Director
Scholarships Management and
Educational Exchange Office
- Mr. Orlando Cabanlig - Managing Director
Information Systems and
Services Division
Technology Resource Center
- Mr. Sonny Joaquin - University of Life
Unit Manager AVTSG
- Mr. Vicente Abergas - Project Manager
Technology Resource Center
- Mr. Zenaida Samson - Project Analyst
Technology Resource Center
- Mr. Ding Fernandez - Unit Head Audio Visual Section
University of Life
- Mr. Felix Costa, Jr. - OIC, Engineering Office
University of Life

PROGRAM II

- Mr. Joemari D. Gerochi - Team Leader, BFAR
- Mr. Enrique Macadangdang - OIC, Aquamarine
KKK National Secretariat
- Ms. Sofia Basa - Expert-Member, BFAR
- Ms. Susan Villafranca - Expert-Member, BFAR

Mr. Pol A. Alapan	-	Supervising Fishery Extension Specialist
Mr. Gerardo A. Gotus	-	Consultant
Ms. Cecil V. Quibal	-	PHRDC (MHS)
Ms. Belle Camiloza	-	PHRDC (MHS)
Mr. Westremundo M. Rosario	-	Director BFAR
Mr. Cacho	-	BFAR

PROGRAM III

Mr. Manuel C. Remulla	-	Executive Officer Construction Manpower Development Foundation
Mr. Santi Dapul	-	Office of the Minister Ministry of Trade & Industry
Mr. Felipe Torres	-	Training Manager Engineering Equipment, Inc.
Mr. Donaldo de Leon	-	Planning Officer, CMDF
Mr. Luis A. Chanco	-	
Mr. Philip Torres	-	Consultant

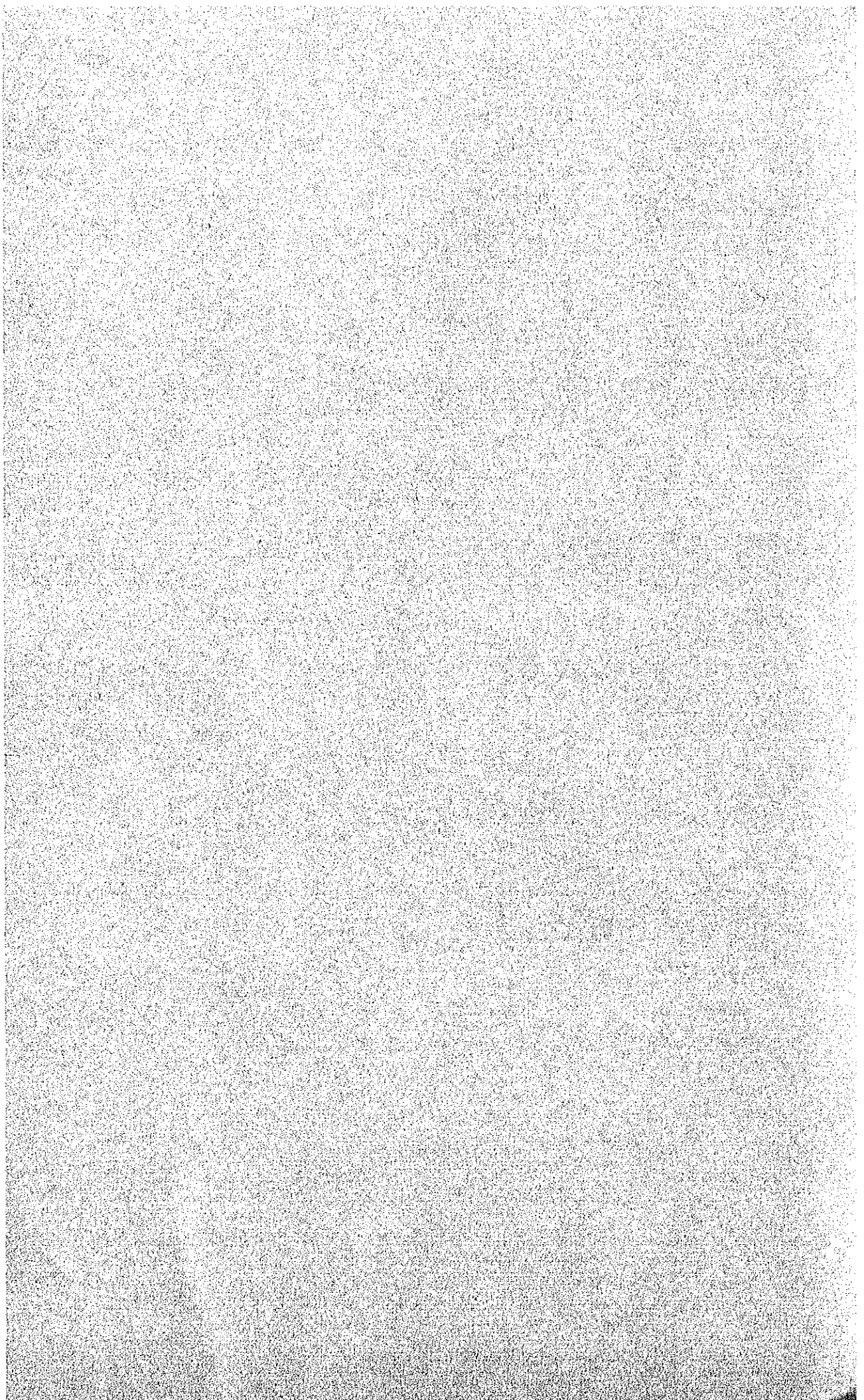
PROGRAM IV

Ms. Syvelyn Tan	-	Special Assistant to the Chairman and Corporate Board Secretary, MTI-NACIDA
Mr. Ernesto Payoyo	-	Manager of Cottage Industries NACIDA, MTI Ministry of Trade & Industry
Mr. Isidoro M. Ramos	-	Acting Chief, Administrative Div
Mr. Jorge E. Mundo	-	Chief Woodcraft Workshop
Mr. Alfonso Atienza	-	Chief Bamboo Rattancraft Wroksho

SECRETARIAT TEAM

Ms. Ma. Corazon Barrios	-	Member, PHRDC Center
Mr. Asterio Guanzon	-	Member, Program I
Mr. Renato Forcadilla	-	Member, Program IV
Mr. Jesus Bernardo	-	Member, Program II
Mr. Angelito Mijares	-	Member, Program III
Mr. Ernesto Forcadilla	-	Member, Renovation -PHRDC
Ms. Julie Fernandez	-	Member, Records & Documentation
Ms. Diana Jean Uy	-	Member, Records & Documentation

11) プログラムⅡ ボーリング調査資料



TESTING (INTERNATIONAL) INC.
TECHNICAL & MATERIALS TESTING ENGINEERS

SUITE 101, 1679 DIAN ST., MAKATI, M. M.
TEL. NO 85-61-42

REF.: GII-32582-178-82

DATE: November 12, 1982

Japan International Corporation Agency
c/o Manila Garden Hotel
Makati, Metro Manila

Attention : Mr. Jun-ichi Itano

Subject : REPORT-SOIL BORING AND TESTING, PROPOSED DAGUPAN
CITY TONDALIGAN, AQUAMARIN LABORATORY.

Gentlemen :

This report presents the result of the soil boring and testing we performed for the proposed Dagupan City Tondaligan, Aquamarin Laboratory in Dagupan City.

The purpose of our soil boring was to explore the sub-surface condition by test borings and perform laboratory tests on disturbed and undisturbed samples.

FIELD INVESTIGATION

To explore the sub-surface conditions, we drilled four test borings (one (1) hole at 30 meters deep and three (3) holes at 20.0 meters deep each.) The exact locations of the borings are shown on the attached borehole location map. The boreholes were drilled using our Explorer 2000 drilling equipment. The logs of the borings are presented on the attached sub-surface exploration log.

SAMPLING WITH STANDARD PENETRATION TEST

Disturbed samples were taken every one meter interval using a Standard Penetration Test (SPT) split spoon sampler. The sampler was driven with a 63.64 kg. hammer falling freely through a distance of 76.2 cm. The number of blows were recorded for the 30 cm. penetration.

Undisturbed samples were retrieved by using a thin wall tube (shelby tube).

WATER TABLE DETERMINATION

The water table was measured 24 hours after completion of the boring works. The elevations of the water table are recorded in the boring logs.

LAYOUT AND ELEVATIONS OF BOREHOLES

The test borings were laid out by the use of an Engineer Transit and measuring tape. The elevations of the boreholes were established by using an Engineer Transit, Stadia Rod and an assumed bench mark, Elevation 0.000. (A nail at Electric Post No. D23-479). For details, please refer to attached borehole location map.

LABORATORY TESTING

The samples obtained from the field were brought to our central laboratory in Manila for further examination. Selected SPT samples were tested to determine the particle size distribution by sieve analysis, Shelby tube samples were tested to determine their natural density and unconfined compressive strength. The results of the tests are presented in the remaining sheets of this report.

SITE CONDITIONS

As revealed on the sub-surface exploration logs, the site is underlain by various thicknesses of fine sand, silty sand and sandy silt to approximately 22 meters deep. Underlying these materials as indicated in borehole no. 1 (BH-1) is a clayey silt layer. For details, please refer to attached Sub-surface Exploration Log.

It has been a pleasure doing the soil boring and testing for the proposed project. If any part of this report needs clarification, please do not hesitate to contact us.

Very truly yours,
GEOTESTING (INTERNATIONAL) INC.

DOMINADOR R. FERMIN, JR.
President

Encl : a/s

SUBSURFACE EXPLORATION LOG

Japan (Int'l.) Corp. Agency Ground Elevation -0.764 meter Hole No. BH-1
 Dagupan City, Tondaligan, Agdamarin Laboratory Watertable Elev. 3.06 M below ground elevation Location Dagupan City
 gaged By A. Bisnar Date gaged Oct. 29, 1982 Depth of Hole 30.0 meter
 on Oct. 24, 1982 Weight of Hammer 63.64 kg. Coordinates See borehole
 on October 28, 1982 Height of Drop 0.762 meter location plan

Notes Size of hole Sampler Drilling Water	Recovery, %	No. of Blows	Sample taken	Description and Classification of Material	Depth, m. Log.	Penetration Resistance blows per foot					
						10	20	30	40	50	
Size of hole : 762 m. Sampler : m. O.D. m. I.D. long Tube diameter : I.D. long	50	2	SPT-1	Fine Sand, gray to dark gray, very loose to medium dense, moist	5						
	58	7	SPT-2								
	65	15	SPT-3								
		88	17	SPT-4	Silty Fine Sand, gray, medium dense, non-plastic wet in place	5					
		92	18	SPT-5							
		92	19	SPT-6							
		85	10	SPT-7							
		75	16	SPT-8							
		85	12	SPT-9		10					
		92	15	SPT-10							
		65	10	SPT-11							
		00	12	SPT-12							
		92	11	SPT-13	Sandy Silt, dark gray medium stiff very low plasticity wet in place	15					
		58	10	SPT-14							
		50	10	SPT-15							
		58	11	SPT-16		20					
		65	11	SPT-17							
		65	8	SPT-18							
		62	7	SPT-19							
		65	8	SPT-20							
		80	-	ST-1	Clayey Silt, dark gray medium stiff to stiff low to medium plasticity, wet in place	25					
		65	7	SPT-21							
		50	6	SPT-22							
		92	-	ST-2							
		65	8	SPT-24							
		00	-	ST-3		30					
		00	6	SPT-26							
	00	-	ST-4								
	00	17	SPT-27								
	00	-	ST-5								

End of Boring

Ramirez
 E. RAMIREZ/Mat'l's. Testing Engr.

Noted by: *D. R. VERMIN, JR.*/President

SUBSURFACE EXPLORATION LOG

Feature Japan (Int'l.) Corp. Agency Ground Elevation 0.071 meter Hole No. BH-2
 Project Daqupan City Tondaligan Aqlamarin Laboratory Watertable Elev. 3.75 meter below ground elevation Location Daqupan City
 Hole Logged By A. Bisnar Date gaged Oct. 31, 1982 Depth of Hole 20.00 m
 Date Begun Oct. 29, 1982 Weight of Hammer 63.64 kg. Coordinates See borehole location
 Date Finished Oct. 30, 1982 Height of Drop 0.762 meter

Notes Type & Size of hole Type of Sampler Loss of Drilling Water	Recovery, %	No. of Blows	Sample taken	Description and Classification of Material	Depth, m.	Log	Penetration Resistance blows per foot		
							10	20	30
Size of hole : 0.0762 m. SPT Sampler : 5.08 cm. O.D. 3.50 cm. I.D. 60 cm. long	65	6	SPT-1	Sand, fine to medium, gray loose, moist in place					
	75	8	SPT-2						
	85	10	SPT-3						
		85	11	SPT-4	Silty Sand, gray medium dense, wet in place				
		90	17	SPT-5					
		90	17	SPT-6					
		80	8	SPT-7	Sandy Silt, dark gray, stiff to medium stiff very low plasticity wet in place				
		85	13	SPT-8					
		85	12	SPT-9					
		85	16	SPT-10					
		92	12	SPT-11					
		65	9	SPT-12					
		75	7	SPT-13					
		75	9	SPT-14					
		85	12	SPT-15					
		70	9	SPT-16					
		75	11	SPT-17					
		65	8	SPT-18					
		70	7	SPT-19					
		80	6	SPT-20					
				End of Boring					

Checked by: E. RAMIREZ/Matl's. Testing Engr.

Noted by: D. R. FERMIN, JR./Pre

SUBSURFACE EXPLORATION LOG

apan (Int'l.) Corp.
 Agency
 Dagupan City, Tondaligan
 Adamarin Laboratory
 ed By A. Bisnar
 n Oct. 31, 1982
 ed November 1, 1982

Ground Elevation - 1.469 meter
 Watertable Elev. 2.23 meter below ground elevation
 Date gaged November 2, 1982
 Weight of Hammer 63.64 kg,
 Height of Drop 0.762 meter

Hole No. BH-3
 Location Dagupan City
 Depth of Hole 20.00 meter
 Coordinates See borehole
 location plan

Notes Size of hole Sampler Drilling Water	Recovery, %	No. of Blows	Sample taken	Description and Classification of Material	Depth, m.	Log	Penetration Resistance blows per foot				
							10	20	30	40	50
hole : 2 m. Sampler : O.D. I.D. long	60	3	SPT-1	Sand, fine to medium dark brown to dark gray, loose to medium dense, wet in place	5	10	10	20	30	40	50
	75	9	SPT-2								
	80	10	SPT-3								
	80	9	SPT-4								
	75	10	SPT-5	Silty Sand, gray, loose non-plastic, moist in place	10	10	10	20	30	40	50
	65	11	SPT-6								
	80	10	SPT-7								
	85	12	SPT-8								
	75	8	SPT-9								
	80	11	SPT-10								
	80	8	SPT-11								
50	5	SPT-12	Sandy Silt, dark gray medium stiff to stiff, very low plasticity wet in place	15	10	10	20	30	40	50	
90	14	SPT-14									
85	8	SPT-15									
90	13	SPT-16									
90	14	SPT-17									
90	14	SPT-18									
100	16	SPT-19									
100	15	SPT-20									
			End of Boring								

Ramirez
 E. RAMIREZ, Mat'l's. Testing Engr.

Noted by: *D. R. Fermin, Jr.* D. R. FERMIN, JR./President

SUBSURFACE EXPLORATION LOG

Feature Japan (Int'l.) Corp. Agency Japan (Int'l.) Corp. Ground Elevation -1.819 meter Hole No. BH-4
 Project Dagupan City Tondaligan Aquamarin Laboratory Watertable Elev. 1.85 meter below ground elevation Location Dagupan City
 Hole Logged By A. Bisnar Date gaged November 4, 1982 Depth of Hole 20.0 M
 Date Begun November 2, 1982 Weight of Hammer 63.64 kg. Coordinates See borehole location
 Date Finished November 3, 1982 Height of Drop 0.762 meter Location See borehole location

Notes Type & Size of hole Type of Sampler Loss of Drilling Water	Recovery, %	No. of Blows	Sample taken	Description and Classification of Material	Depth, m.	Log	Penetration Resistance blows per foot			
							10	20	30	
Size of hole : 0.0762 m. SPT Sampler: 5.08 cm. O.D. 3.50 cm. I.D. 60 cm. long	60	6	SPT-1	Sand, fine to medium gray to dark gray, loose to medium dense, wet in place	5					
	75	8	SPT-2							
	80	12	SPT-3							
	80	12	SPT-4							
	80	13	SPT-5							
	80	7	SPT-6							
	75	8	SPT-7							
	80	9	SPT-8							
	85	12	SPT-9	Silty Sand, dark gray medium dense, very low plasticity wet in place	10					
	90	13	SPT-10							
	90	14	SPT-11							
	80	7	SPT-12							
		0	-	ST-1						
		85	10	SPT-13		15				
		85	12	SPT-14						
		60	6	SPT-15						
		85	12	SPT-16						
		90	12	SPT-17						
		90	14	SPT-18						
	90	14	SPT-19							
				End of boring	20					

Checked by: E. RAMIREZ/Mat'l's. Testing Engr.

Noted by: D. R. FERMIN, JR./P

TESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

SIEVE ANALYSIS TEST RESULTS ON SPT SAMPLES

BOREHOLE NO. I

Sample No.	Depth, m	% Passing U.S. Standard Sieve					
		No. 8	No. 16	No. 30	No. 50	No. 80	No. 200
T-1	0.55-1.00	100	99	98	46	38	7
T-5	4.55-5.00	100	98	98	79	62	22
T-8	7.55-8.00	100	99	98	89	88	48
T-11	10.55-11.00	100	99	98	89	81	49
T-14	13.55-14.00	100	96	89	80	70	40
T-20	19.55-20.00	100	99	98	96	89	52
T-24	24.55-25.00	100	99	99	98	98	96
T-27	28.55-29.00	-	-	100	99	99	97

Tested by :

Rosemarie E. Pajares
ROSEMARIE E. PAJARES
Sr. Laboratory Tech.

Tested by :

Evelyn T. Ramirez
EVELYN T. RAMIREZ
Materials Testing Engr.

GEOTESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

SIEVE ANALYSIS TEST RESULTS ON SPT SAMPLES

BOREHOLE NO. 2

Sample No.	Depth, m	% Passing U.S. Standard Sieve					No.
		No. 8	No. 16	No. 30	No. 50	No. 80	
SPT-2	1.55-2.00	-	100	98	60	11	
SPT-4	3.55-4.00	100	99	98	96	79	
SPT-8	7.55-8.00	100	99	98	96	89	
SPT-12	11.55-12.00	-	-	-	100	98	
SPT-16	15.55-16.00	100	98	97	95	88	
SPT-20	19.55-20.00	-	-	-	99	95	

Tested by :

Rosemarie Pajares
ROSEMARIE PAJARES
Sr. Laboratory Tech.

Noted by :

Evelyn T. Ramirez
EVELYN T. RAMIREZ
Materials Testing Engr.

TESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

SIEVE ANALYSIS TEST RESULTS ON SPT SAMPLES

BOREHOLE NO. 3

Sample No.	Depth, m	% Passing U.S. Standard Sieve					
		No. 8	No. 16	No. 30	No. 50	No. 80	No. 200
T-2	1.55-2.00	-	100	94	58	14	2
T-7	6.55-7.00	100	98	94	82	43	10
T-10	9.55-10.00	-	-	100	99	87	42
T-14	14.55-15.00	-	-	-	100	89	59
T-19	18.55-19.00	-	-	100	99	93	72

Tested by :

Rosemarie E. Pajares
ROSEMARIE E. PAJARES
Sr. Laboratory Tech.

Tested by :

Evelyn T. Ramirez
EVELYN T. RAMIREZ
Materials Testing Engr.

GEOTESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

SIEVE ANALYSIS TEST RESULTS ON SPT SAMPLES

BOREHOLE NO. 4

Sample No.	Depth, m	% Passing U.S. Standard Sieve					
		No. 8	No. 16	No. 30	No. 50	No. 80	No. 200
SPT-1	0.55-1.00	-	100	98	49	13	2
SPT-5	4.55-5.00	100	98	92	76	27	9
SPT-9	8.55-9.00	-	-	100	97	82	40
SPT-14	14.55-15.00	-	100	99	90	85	42
SPT-20	19.55-20.00	100	99	98	97	83	41

Tested by :

Rosemarie E. Pajares
ROSEMARIE E. PAJARES
Sr. Laboratory Tech.

Noted by :

Evelyn T. Ramirez
EVELYN T. RAMIREZ
Materials Testing Engr.

TESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

UNCONFINED COMPRESSIVE STRENGTH AND NATURAL
DENSITY OF SHELBY TUBE SAMPLES

BOREHOLE NO. I

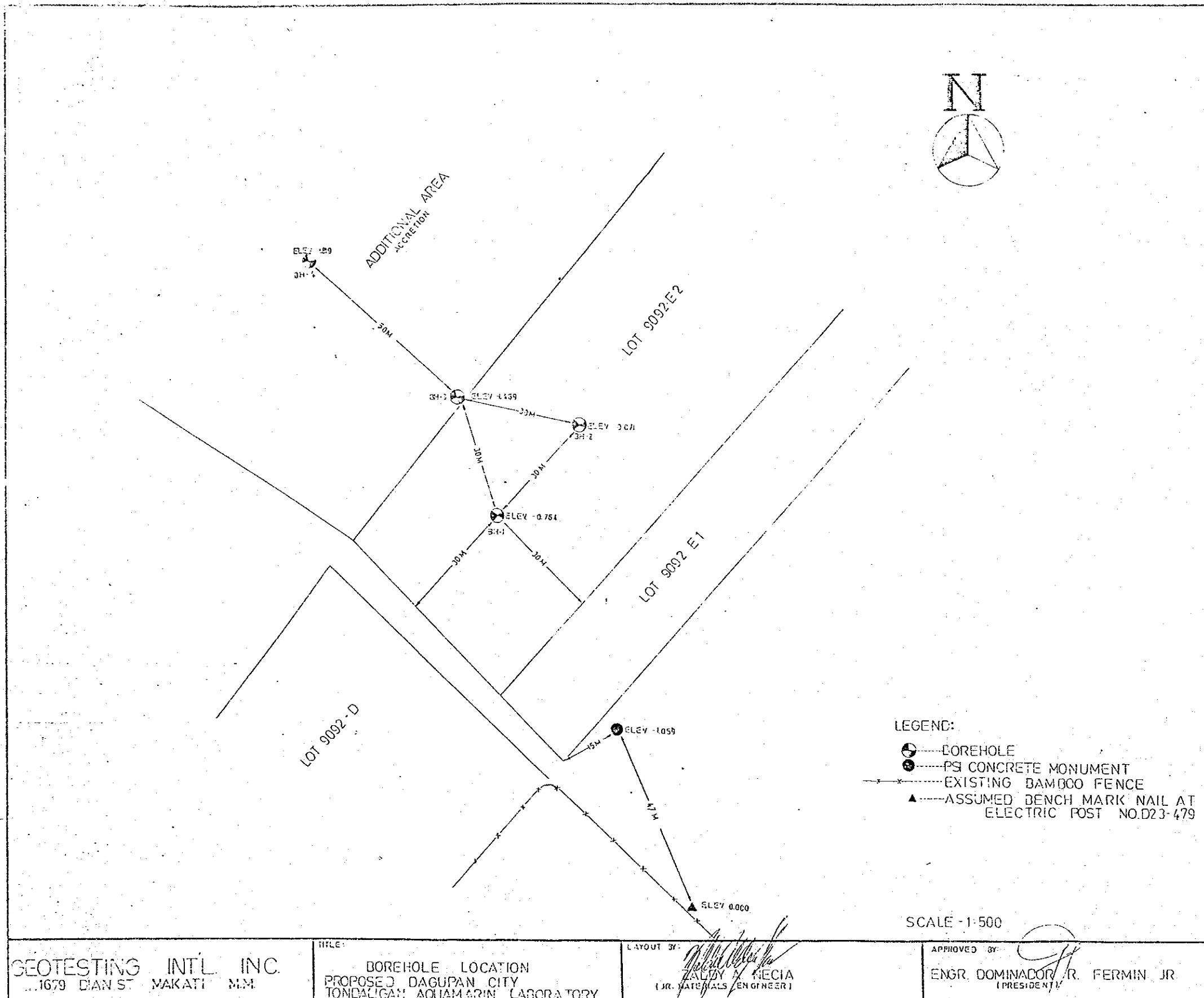
<u>Sample No.</u>	<u>Depth Meter</u>	<u>Unconfined Compressive Strength kg/cm²</u>	<u>Natural Density g/cc</u>
ST-1	20.55 - 21.00	0.734	1.32
ST-2	22.55 - 23.00	0.685	1.28
ST-3	25.55 - 26.00	0.705	1.30
ST-4	27.55 - 28.00	1.301	1.72
ST-5	29.55 - 30.00	1.631	1.81

Tested by :

Rosemarie Pajares
ROSEMARIE PAJARES
Sr. Laboratory Tech.

Noted by :

Levelyn T. Ramirez
LEVELYN T. RAMIREZ
Materials Testing Engr.



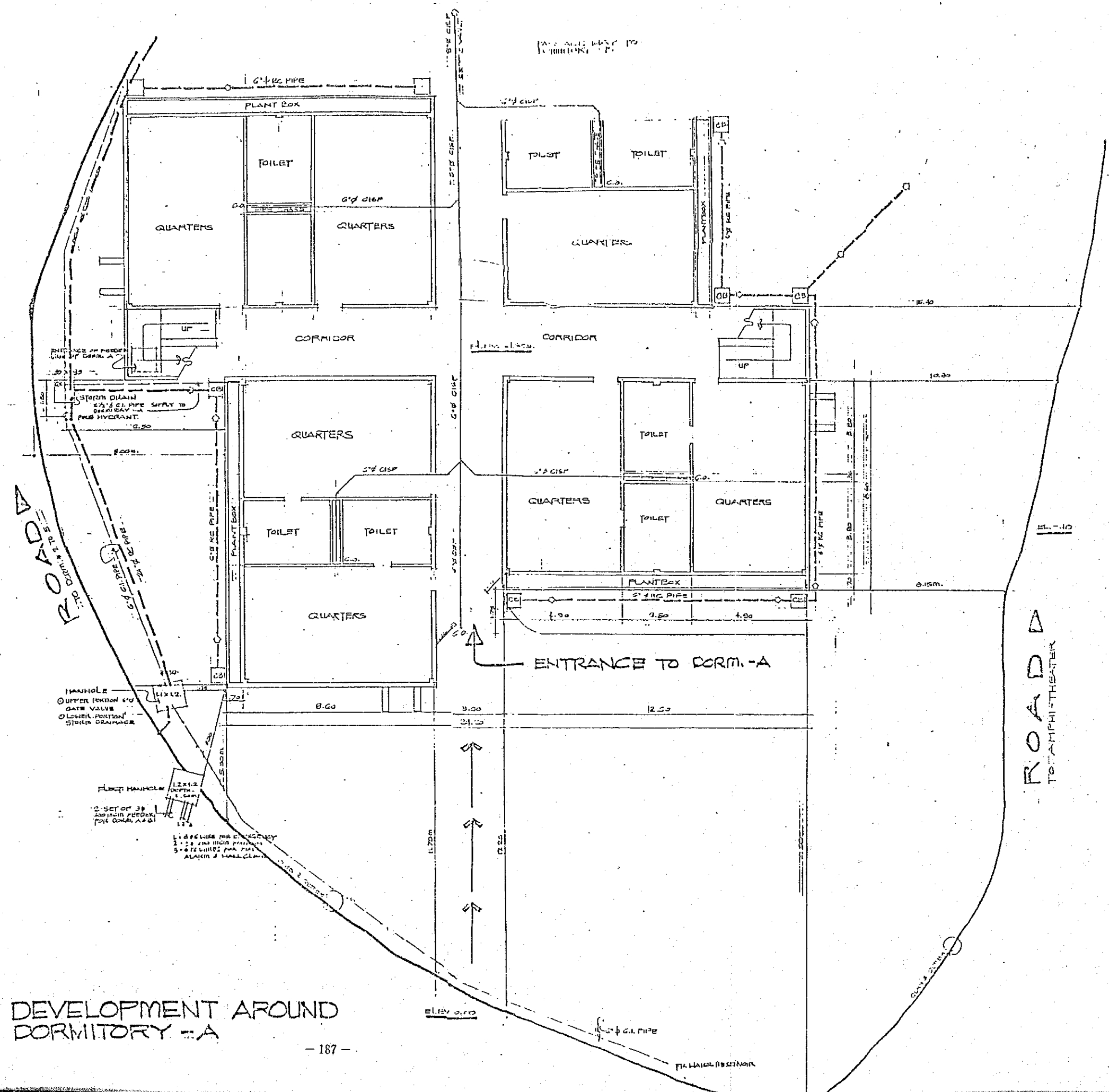
GEOTESTING INTL. INC.
1679 DIAN ST. MAKATI N.M.

TITLE: BOREHOLE LOCATION
PROPOSED DAGUPAN CITY
TONDALIGAN, AQUAMARIN LABORATORY

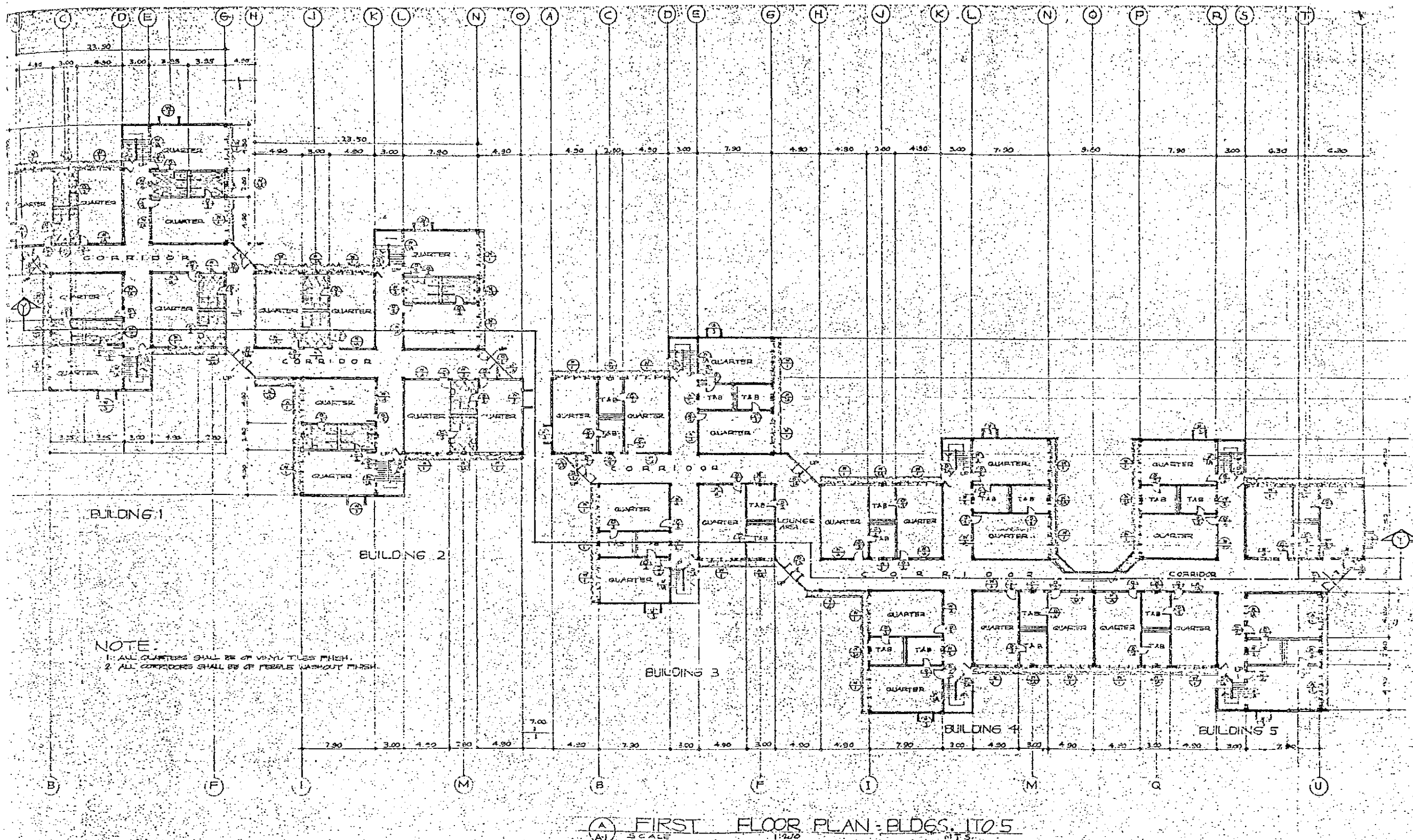
LAYOUT BY: *[Signature]*
ZALDY A. NECIA
(JR. MATERIALS ENGINEER)

APPROVED BY: *[Signature]*
ENGR. DOMINADOR R. FERMIN JR.
(PRESIDENT)

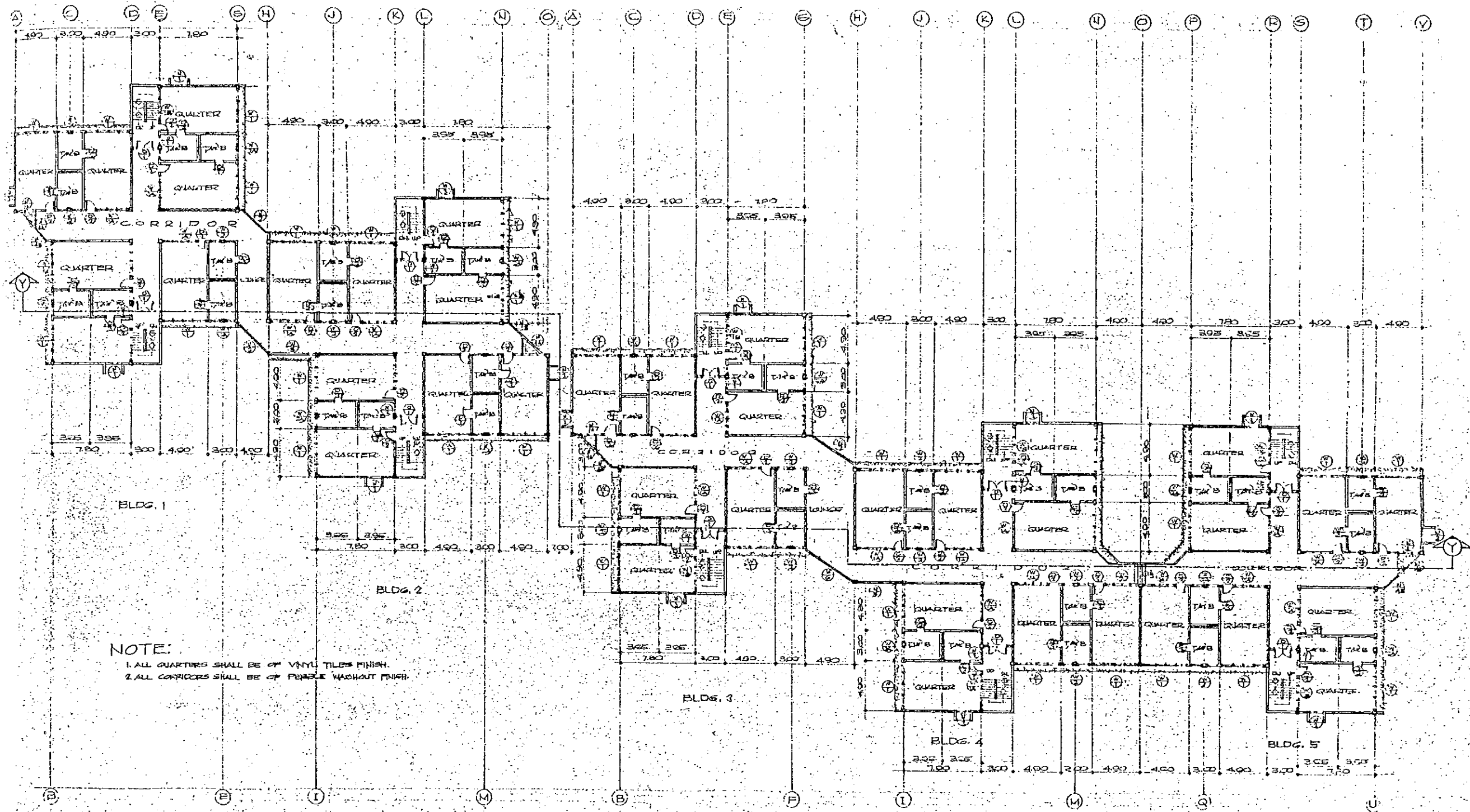
12) プログラムⅠ 既存建屋関連図面集



SITE DEVELOPMENT AROUND DORMITORY -A



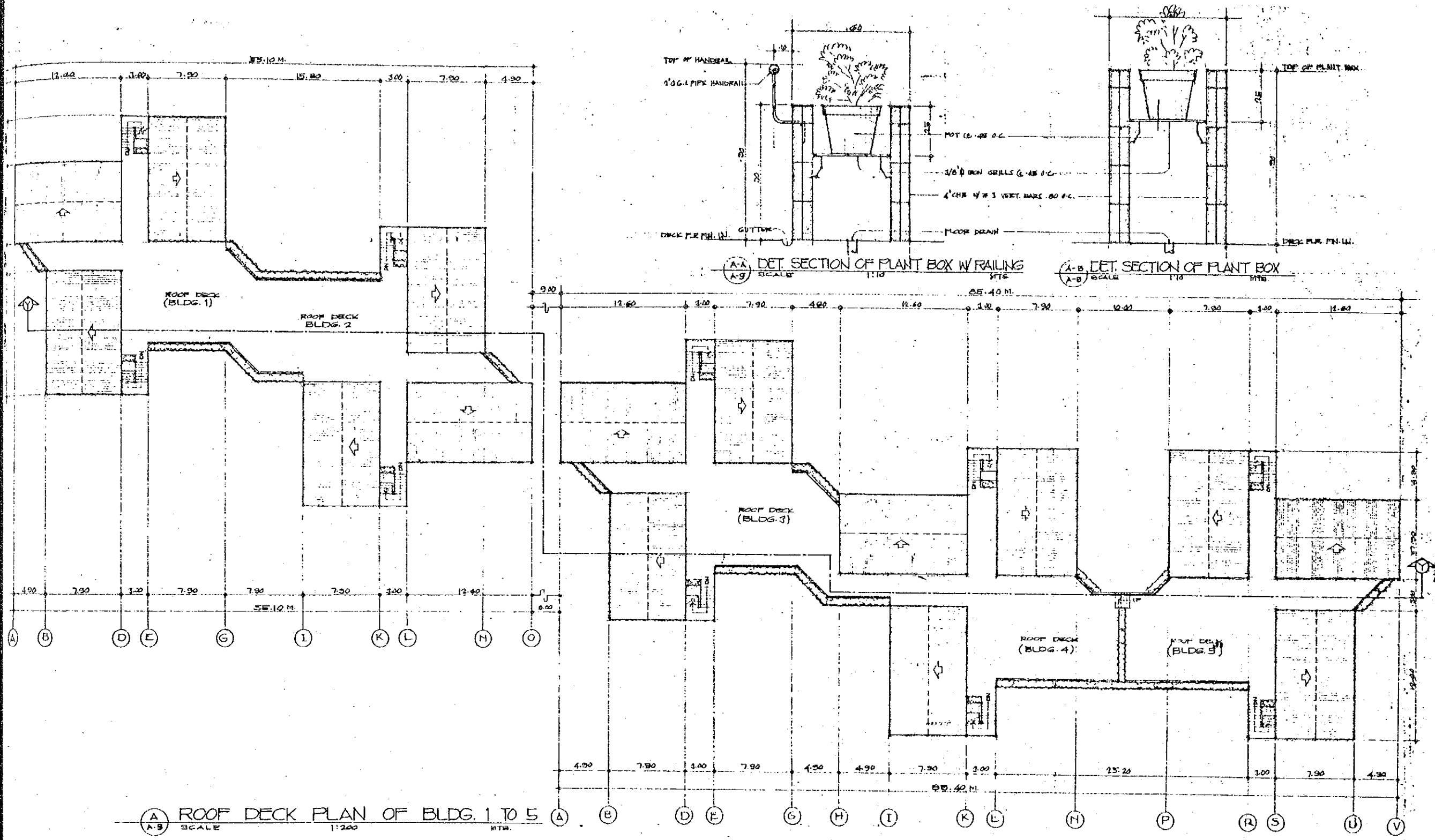
PROJECT TITLE: FAMANTASAN NG BAGONG LIPUNAN HERALDO ALE. PASIG, M. I.	SUBMITTED BY: JAMES U. VIREZAS PROJECT MANAGER/CHS	RECOMMENDED BY: DR. JOSE CONRADO BENTEZ DEPUTY MINISTER/CHS	APPROVED BY: MARICEL WELDA RETUVALDE VIREZAS MINISTER, MINISTRY OF HUMAN SETTLEMENTS	PREPARED BY: ENVIRONS SYSTEMS GROUP INC. PLANNERS - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS	REVISIONS:	DESIGNED BY: LAUREN	SHEET TITLE: DORMITORY BLDGS. GRAND FLOOR PLAN (BLDG. 1-5)	SHEET NO. A-1
PROJECT OWNER: HUMAN SETTLEMENTS DEVELOPMENT CORP. TAGUIG, M. I.	PROJECT NO.:	DATE:	DATE:	DATE:	DATE:	DATE:		



NOTE:
 1. ALL QUARTERS SHALL BE OF VINYL TILES FINISH.
 2. ALL CORRIDORS SHALL BE OF PERFORATED WASHOUT FINISH.

(A) TYPICAL FLOOR PLAN 2ND TO 4TH (BLDG. 1 TO 5)
 A-2 SCALE 1/200

PROJECT TITLE: PAMANTASAN NG BAGONG LIPUNAN MINDAORO AVE. DAGUPAN, P.I.	SUBMITTED BY: FRANCIS G. BARRERA PROJECT ARCHITECT	RECOMMENDED BY: DR. JOSE CONCEPCION DE VERA PROJECT ARCHITECT	APPROVED BY: HON. MELBA S. MARCOS MINISTER, MINISTRY OF HUMAN SETTLEMENTS	PREPARED BY: ENVIRON SYSTEMS GROUP, INC. PLANNING ARCHITECTS, ENGINEERS, INTERIOR DESIGNERS, LANDSCAPE ARCHIT.	REVISIONS:	DESIGNED BY: ENR. 1011 ENR. 1012	SHEET TITLE: DORMITORY BLDG. SECOND TO FOURTH FLOOR TYPICAL PLAN (BUILDING 1-5)	SHEET NO.: A-2 15
PROJECT OWNER: HUMAN SETTLEMENTS DEVELOPMENT CORP. FTI	DATE: OCT 1973	DATE: OCT 1973	DATE: OCT 1973	DATE: OCT 1973	DATE: OCT 1973	DATE: OCT 1973	DATE: OCT 1973	DATE: OCT 1973

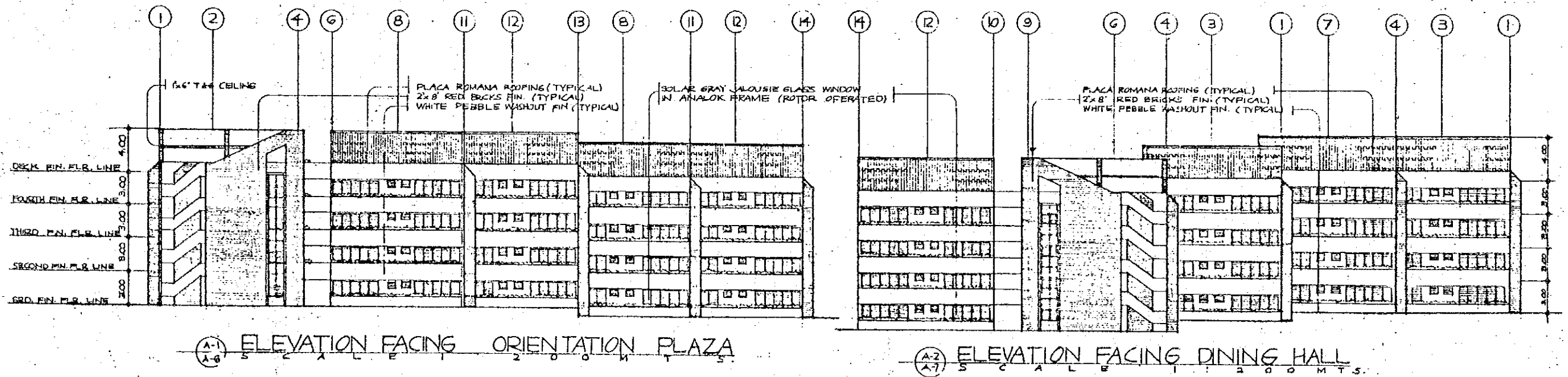
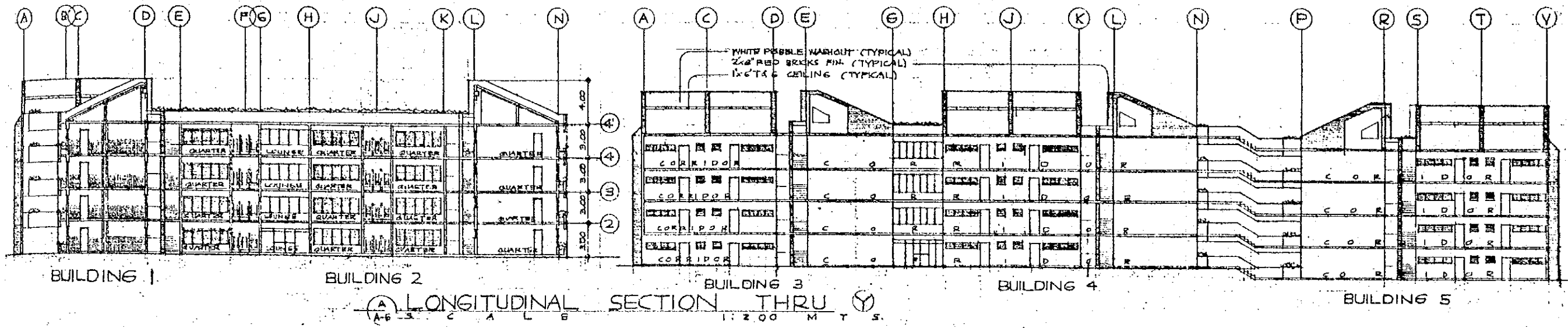


(A) ROOF DECK PLAN OF BLDG. 1 TO 5
 SCALE 1:200
 MTR.

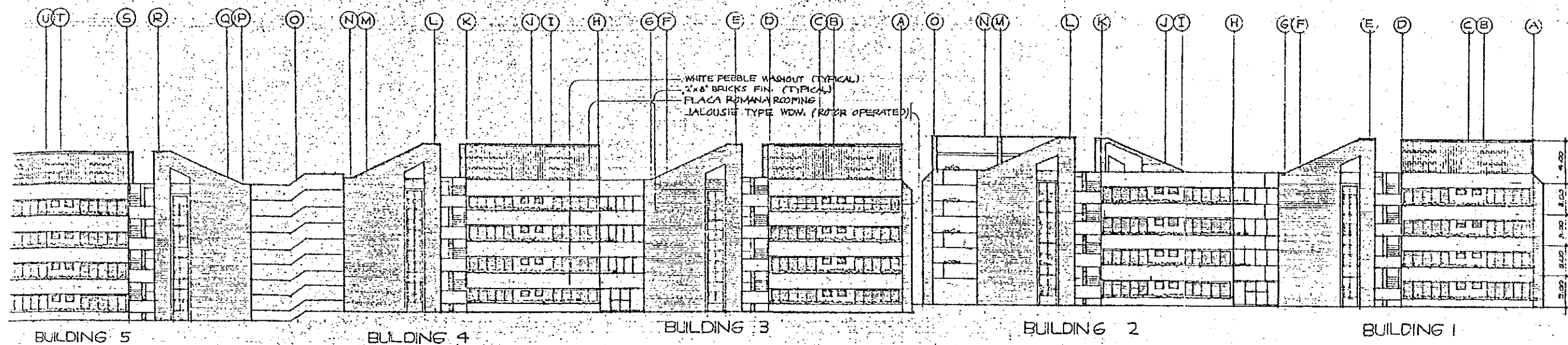
(A-A) DET. SECTION OF PLANT BOX W/ RAILING
 SCALE 1:10
 MTR.

(A-B) DET. SECTION OF PLANT BOX
 SCALE 1:10
 MTR.

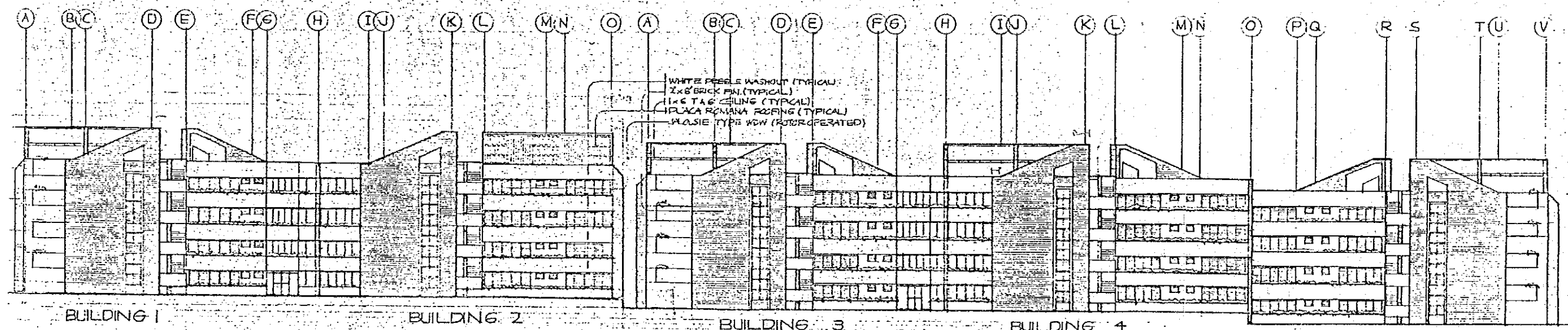
PROJECT TITLE: PAMANTASAN NG BAGONG LIPUNAN <small>MORALCO AVE. PASIG, N.M.</small>		DESIGNED BY: ENVIRONS SYSTEMS GROUP, INC. <small>PLANNERS - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS</small>	PREPARED BY: JOSEPH C. LUCAS <small>ARCH 4-172</small>	REVISIONS: _____ _____ _____	DESIGNED BY: ENVIRONS SYSTEMS GROUP, INC. <small>PLANNERS - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS</small>	SHEET TITLE: DORMITORY BLDG. ROOF DECK PLAN OF BLDG. 1-5	SHEET No. (A-9) 16
PROJECT OWNER: HUMAN SETTLEMENTS DEVELOPMENT CORP. <small>FTI TAGUIG, METRO MANILA</small>	RECOMMENDED BY: JOSE JOYNTO <small>DEPUTY MANAGER, HHS</small>	APPROVED BY: IVANILYN ROSALES BERNALDEZ <small>REGISTERED ARCHITECT OF HUMAN SETTLEMENTS</small>	CONSULTANT'S: JOSEPH C. LUCAS <small>ARCH 4-172</small>	DATE: _____	DESIGNED BY: ENVIRONS SYSTEMS GROUP, INC. <small>PLANNERS - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS</small>	SHEET TITLE: DORMITORY BLDG. ROOF DECK PLAN OF BLDG. 1-5	SHEET No. (A-9) 16



PROJECT TITLE: FAMANTASAN NG BACONG LIPUNAN MIZALCO AVE. PASIG, M. M.	SUBMITTED BY: JAIME U. NERKAS PROJECT ARCHITECT, NMS	RECOMMENDED BY: DR. JOSE CONRADO BRULTEZ DEPUTY DIRECTOR, NMS	APPROVED BY: INDYNE UYODA REYNOLDEZ MARCOS MINISTER, MINISTRY OF HUMAN SETTLEMENTS	PREPARED BY: ENVIRON SYSTEMS GROUP, INC. PLANNERS - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS CONSULTANTS: JUANITO C. LUCAS PTR #03128 AR-R 44172 TAN 2224-777-B	REVISIONS: R11	DRAWN BY: LACEY CHECKED BY: DATE:	SHEET TITLE: DORMITORY BLDG. SIDE ELEVATIONS AND SECTIONS (BLDG 1-5)	SHEET NO. A-G 16
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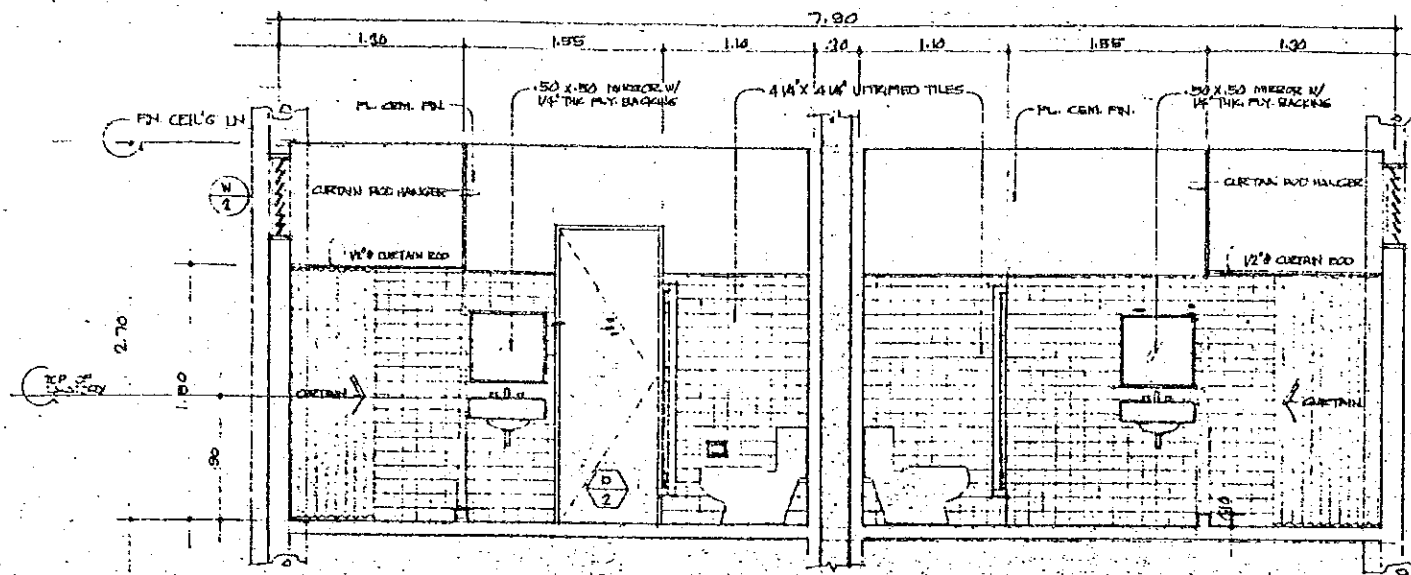


(A-5) ELEVATION FACING ST. PAUL STREET
SCALE 1:200 MTS.

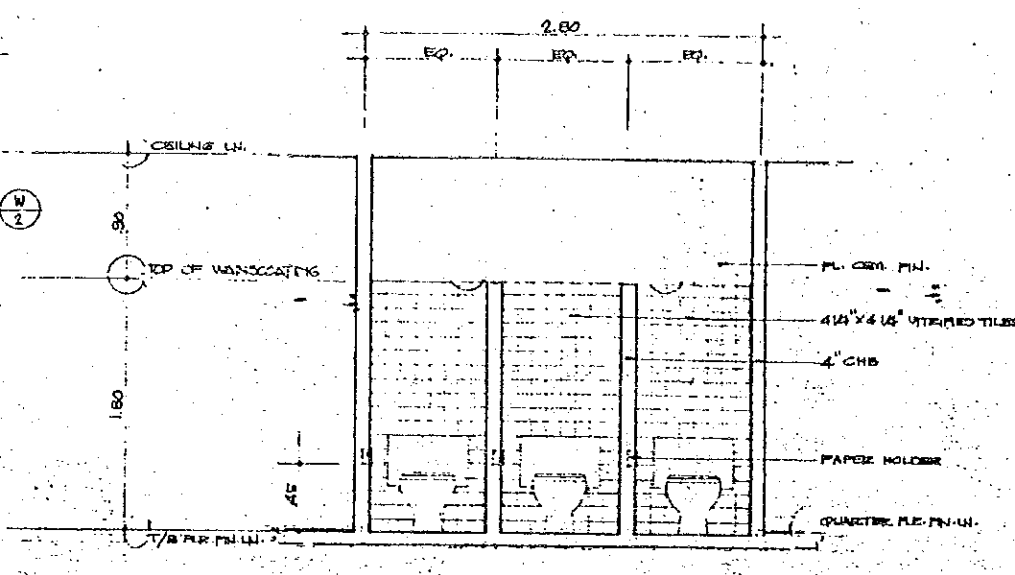


(A-5) ELEVATION FACING ST. MARTIN STREET
SCALE 1:200 MTS.

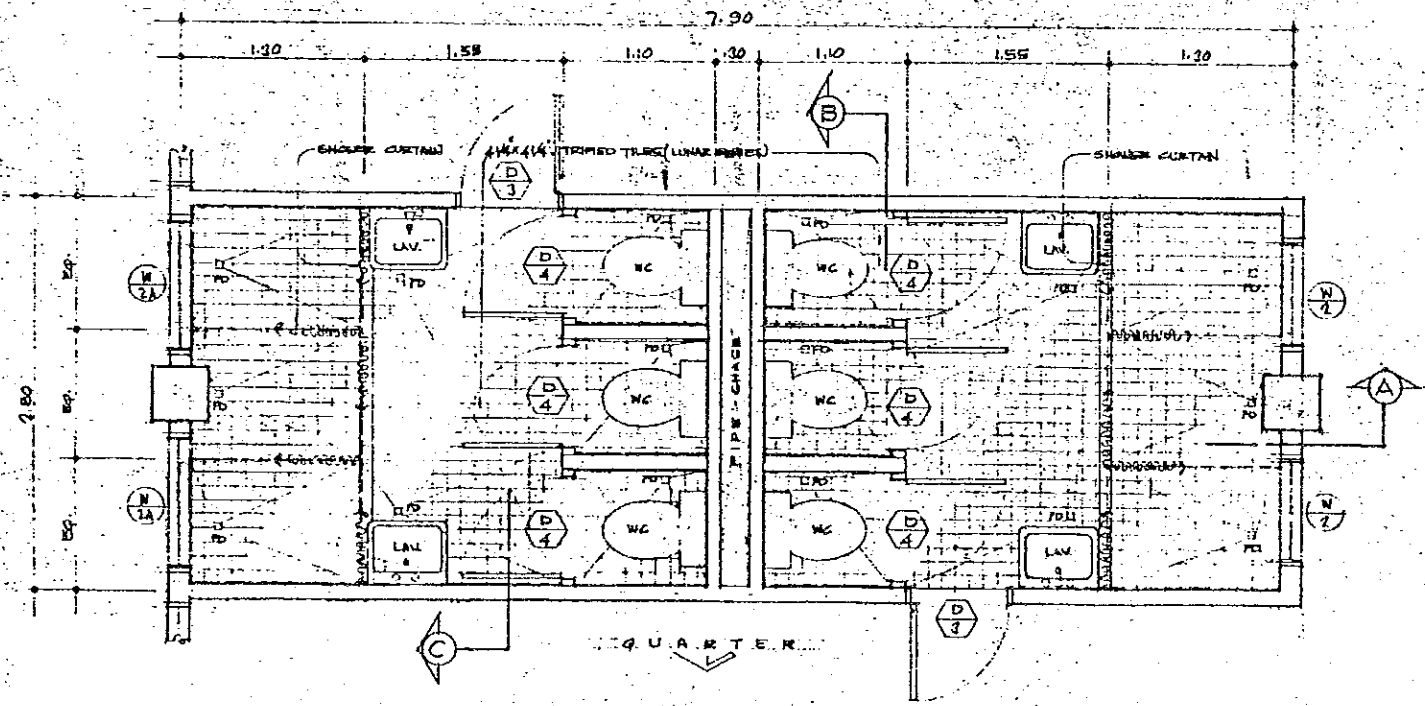
PROJECT TITLE: FAMANTASAN NG BAGONG LIPUNAN MERRALCO AVE. PASIG, N.M.		QUANTITY BY:	RECOMMENDED BY:	APPROVED BY:	PREPARED BY: ENVIRONS SYSTEMS GROUP, INC. PLANNERS / ARCHITECTS / ENGINEERS / INTERIOR DESIGNERS / CONSULTANTS JOSEPHINO C. LUKAS ARCH 4472	DESIGNED BY: DRAWN BY: CHECKED BY: DATE:	SHEET TITLE: PERMITORY BLDG. FRONT AND REAR ELEVATIONS (BLDG 1-5)	SHEET NO. A-5 16
PROJECT OWNER: HUMAN SETTLEMENTS DEVELOPMENT CORP. PTI TACIG, BZAL		JAIME B. SERRANO PROJECT ARCHITECT	DR. JOSE CONRADO BRITEX DEPUTY MINISTER, NHA	MADAME ANGELA ROSALDOZ MARIANO TRUSTEE, HUMANITY OF HUMAN SETTLEMENTS	PTR 433458 TAN 6234-777-8			



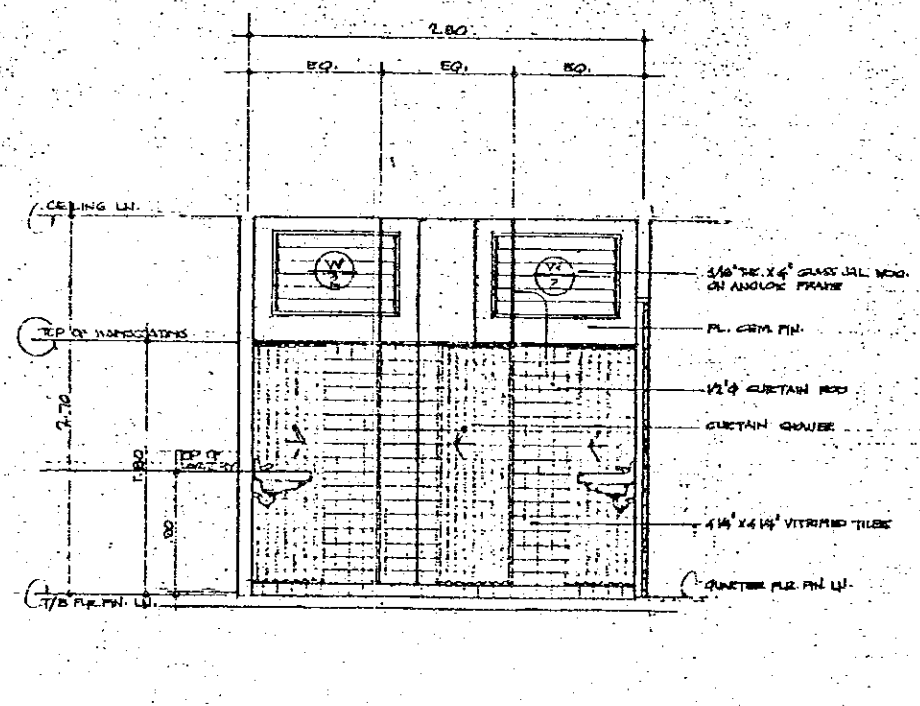
A-A SECTION THRU A
SCALE 1:25 MTS.



A-B SECTION THRU B
SCALE 1:25 MTS.

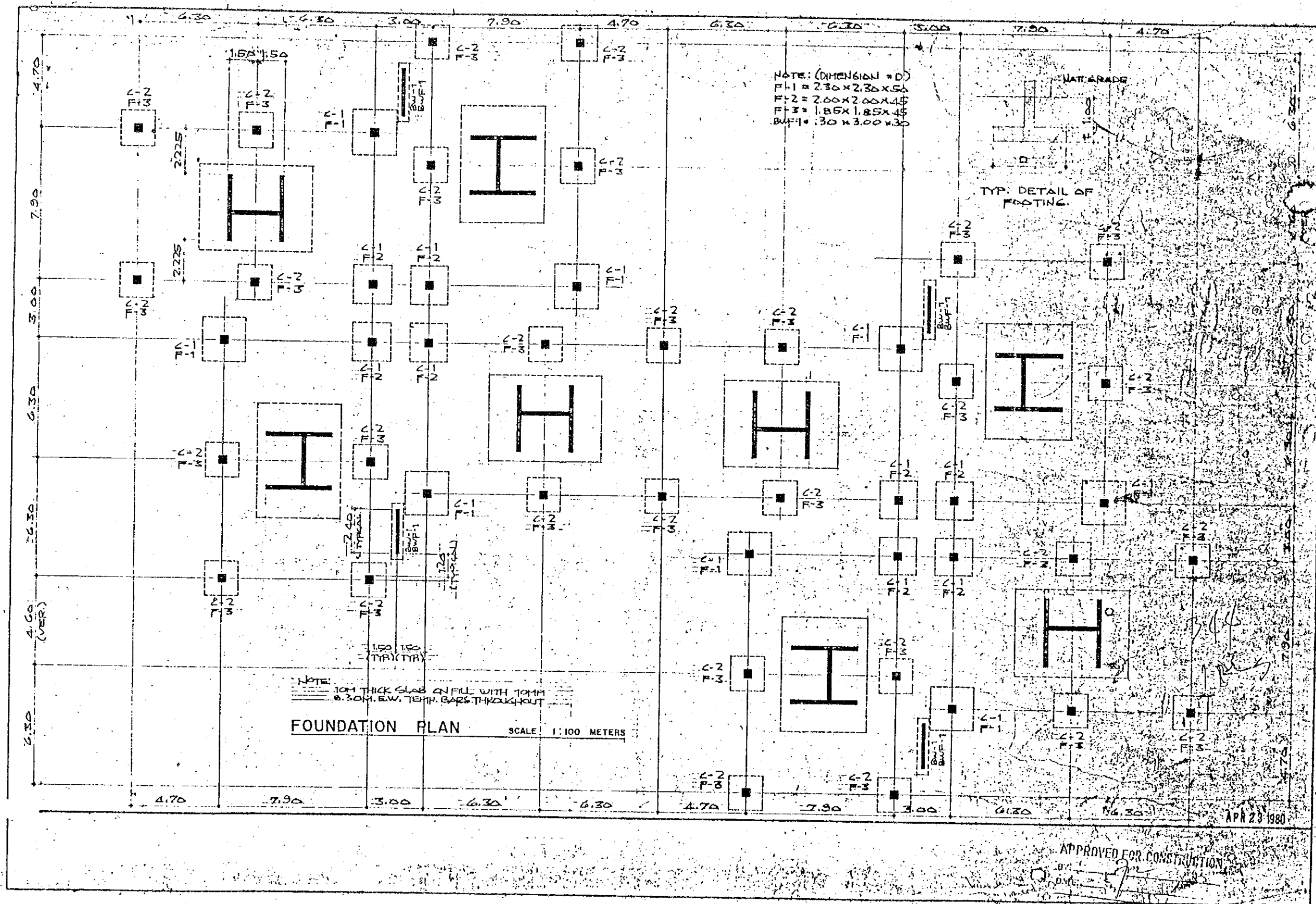


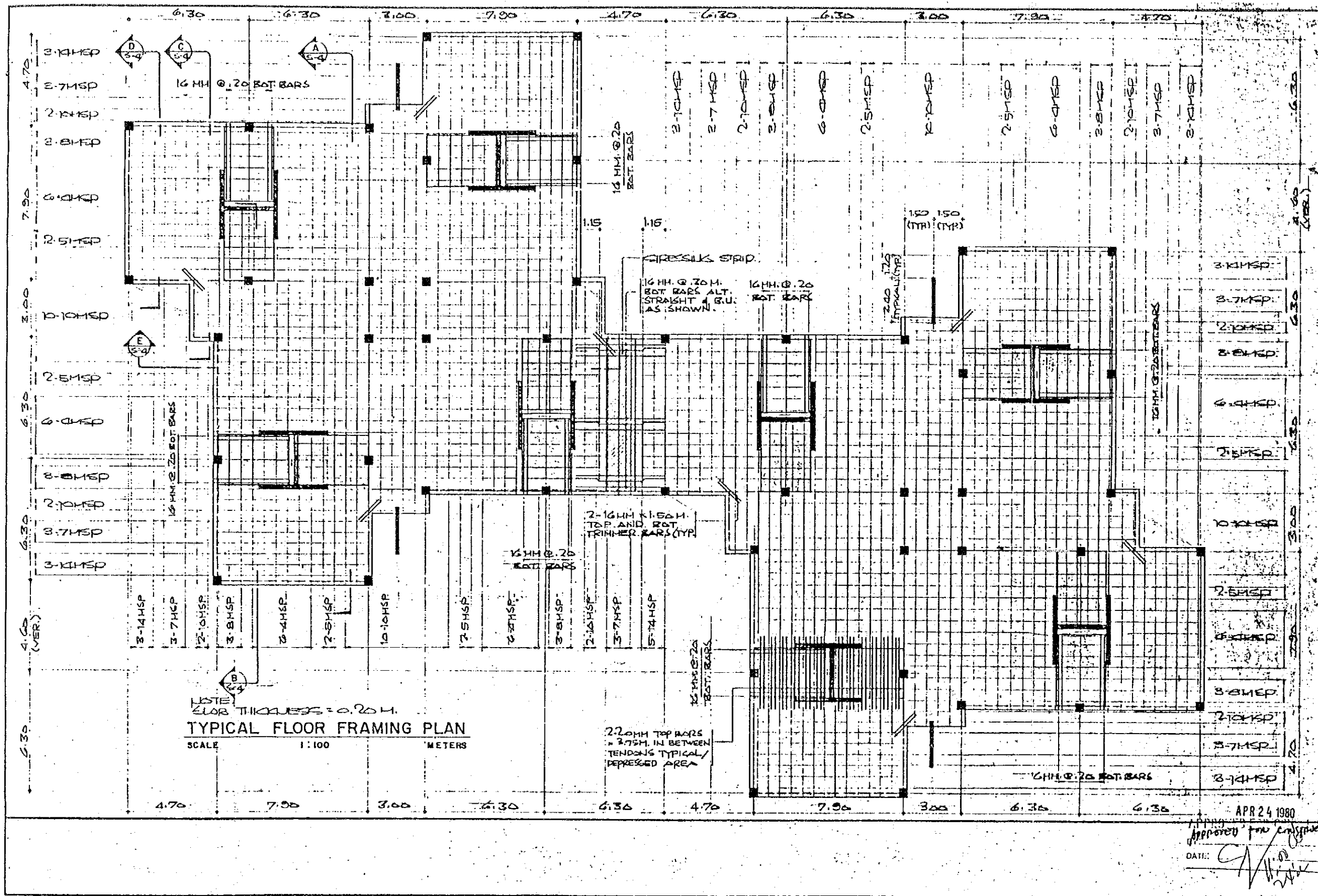
A-TYPICAL PLAN OF TOILET and BATH & QUARTERS (BLDG 1 to 10)
SCALE 1:25 MTS.



A-C SECTION THRU C
SCALE 1:25 MTS.

PROJECT TITLE: PAMANTASAN NG BAGONG LIPUNAN MIRALCO INC. PASC, P.I.M.	CLIENT BY: JANITZ U. NIEBANS PROJECT ARCHITECT/INC.	REGISTERED BY: DR. JOCKE GAMBINO DEPUTY REGISTERED	APPROVED BY: MADAME EMILDA ACOSTA DIRECTOR, DIVISION OF HUMAN SETTLEMENTS	PREPARED BY: ENVIRONS SYSTEMS GROUP, INC. PLANNING - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS CONSULTANT: WILSON P. LUCAS PTR 421256 JACK A. TIZ TAN. 8234-777-8	REVISIONS:	DESIGNED BY: DRAWN BY: CHECKED BY: DATE:	SHEET TITLE: DORMITORY BLDG. TYPICAL PLAN OF TOILET & BATH & SECTIONS	SHEET NO. A-13 19
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TYPICAL FLOOR FRAMING PLAN

SCALE 1:100 METERS

NOTE: FLOOR THICKNESS = 0.20 M.

220MM TOP BARS
= 275MM IN BETWEEN
TENDONS TYPICAL/
DEPRESSED AREA

2-16MM R150M
TOP AND ROT
TRIMMER BARS (TYP)

16MM @ 20
ROT BARS ALT.
STRAIGHT & BU.
AS SHOWN.

16MM @ 20
ROT BARS

16MM @ 20 ROT BARS

200 T25
TYPICAL (TYP)

16MM @ 20 ROT BARS

16MM @ 20 ROT BARS

APR 24 1980

Approved for construction

DATE: *[Signature]*

GENERAL NOTES:

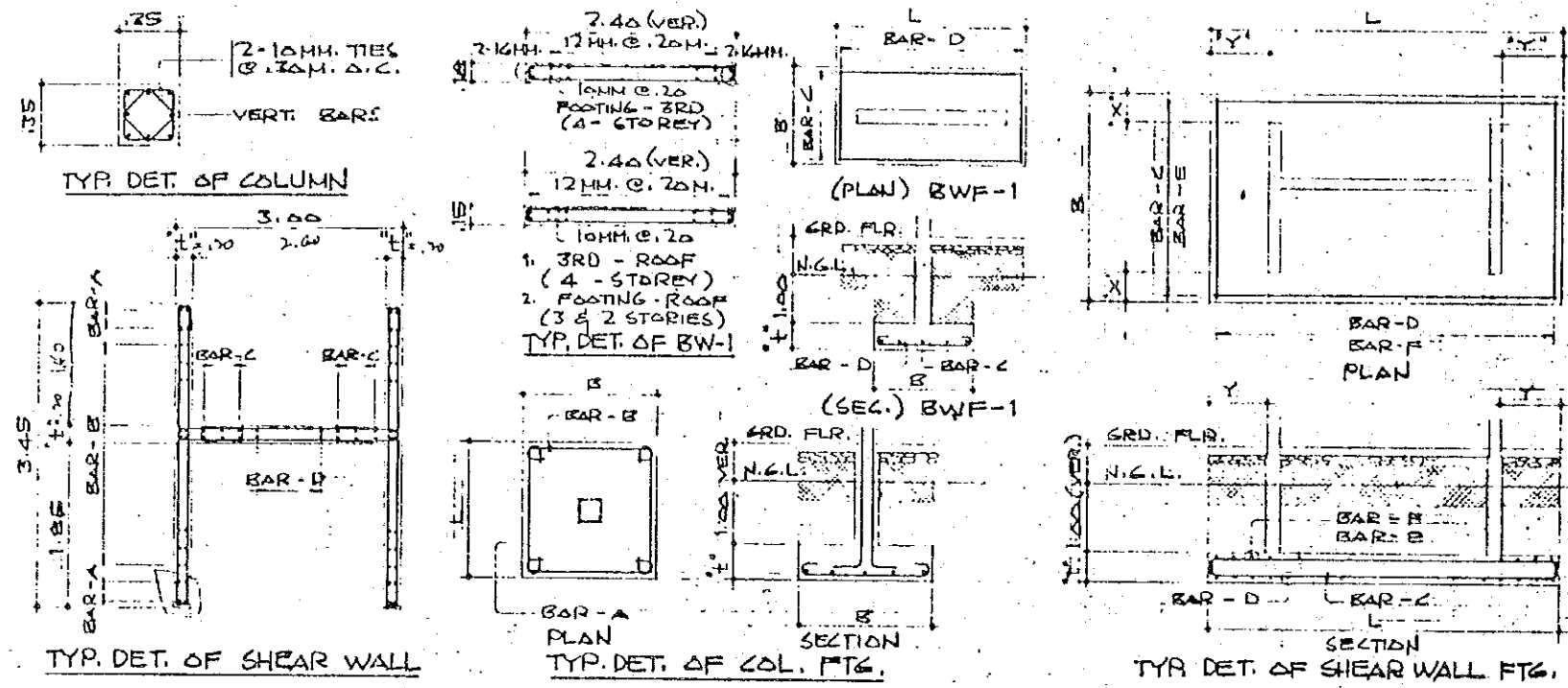
- REFERENCE TO OTHER DRAWINGS:
SEE ARCHITECTURAL DRAWINGS FOR KINDS OF FLOOR FINISHES, DEPRESSIONS IN FLOOR SLABS, OPENINGS IN WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DRAINS, ETC.
- DIMENSIONS:
IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- DISCREPANCIES:
THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL PLANS AS TO THE LAYOUT, DIMENSIONS AND ELEVATIONS.
- POURING SCHEDULE:
A. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND LOCATION OF CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOUR (4) DAYS PRIOR TO THE POUR FOR APPROVAL.
B. THE CONTRACTOR SHALL KEEP ALL CONCRETE MOIST FOR A MINIMUM OF SEVEN (7) DAYS IMMEDIATELY AFTER POURING.
- FORMWORKS:
A. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITIONS AND STRENGTH.
B. REMOVAL OF FORMS:
1. POST-TENSIONED SLABS — AFTER STRESSING
2. COLUMNS & BEARING WALLS — AFTER STRESSING
PLACING OF TENDONS:
SUPPORTS FOR TENDONS SHALL BE SUCH TO INSURE THEIR REMAINING IN PROPER POSITION DURING THE PLACING OF CONCRETE.

DESIGN CRITERIA:

- A. DESIGN LOADS:**
- DEAD LOADS:
 - CONCRETE — 150 PCF
 - PARTITIONS — 20 PCF
 - FINISHES — 10 PCF
 - LIVE LOADS:
 - ROOF — 30 PSF
 - TYP. 2ND TO 4TH FLR. — 60 PSF
 - STAIRS — 100 PSF
 - SEISMIC LOADS:
SEISMIC PROBABILITY FOR ZONE 3 UBC 1970 EDITION $F_a = ZK_0W$
- B. DESIGN STRESSES:**
- CONCRETE:
 - POST-TENSIONED SLABS — $f_c = 3,000$ PSI @ STRESSING
 $f_c = 4,000$ PSI @ 28 DAYS
 - COLUMNS AND FOOTINGS — $f_c = 3,000$ PSI @ 28 DAYS
 - SLAB ON MILL — $f_c = 2,500$ PSI @ 28 DAYS
 - REINFORCING STEEL:
 - ALL MILD STEEL SHALL BE STRUCTURAL GRADE DEFORMED BARS $f_y = 33,000$ PSI.
 - PRESTRESSING STEEL SHALL BE $1/4"$ Ø COLD-DRAWN WIRES $f_{pu} = 240,000$ PSI TO BE BUTT-HEADED, BUNDLED COATED, SHEATHED AND NON-GROUTED.
- C. FOUNDATION:**
ALL FOOTINGS SHALL REST ON SOLID GROUND WITH ASSUMED SOIL BEARING CAPACITY OF NOT LESS THAN 4,000 PSF.

SCHEDULE OF COLUMNS & SHEAR WALL

BUILDING TYPE	FLOOR LEV.	SHEARWALL	SHEAR WALL REINFORCEMENT				HOR. BARS	TIES	COLUMN VERT. BARS	
			A	B	C	D			C-1	C-2
4 STOREY	3RD - ROOF	.15	4-12 MM.	2-12 MM.	4-12 MM.	14-12 MM.	10MM @ 20 E.F.	10MM @ 30M.	8-20MM.	8-16MM.
	FTG. - 3RD	.20	4-16 MM.	2-12 MM.	6-16 MM.	14-12 MM.	12MM @ 25 E.F.	10MM @ 30M.	8-23 MM.	8-20MM.
3 STOREY	2ND - ROOF									
	FTG. - 2ND									
2 STOREY	FTG. - ROOF									

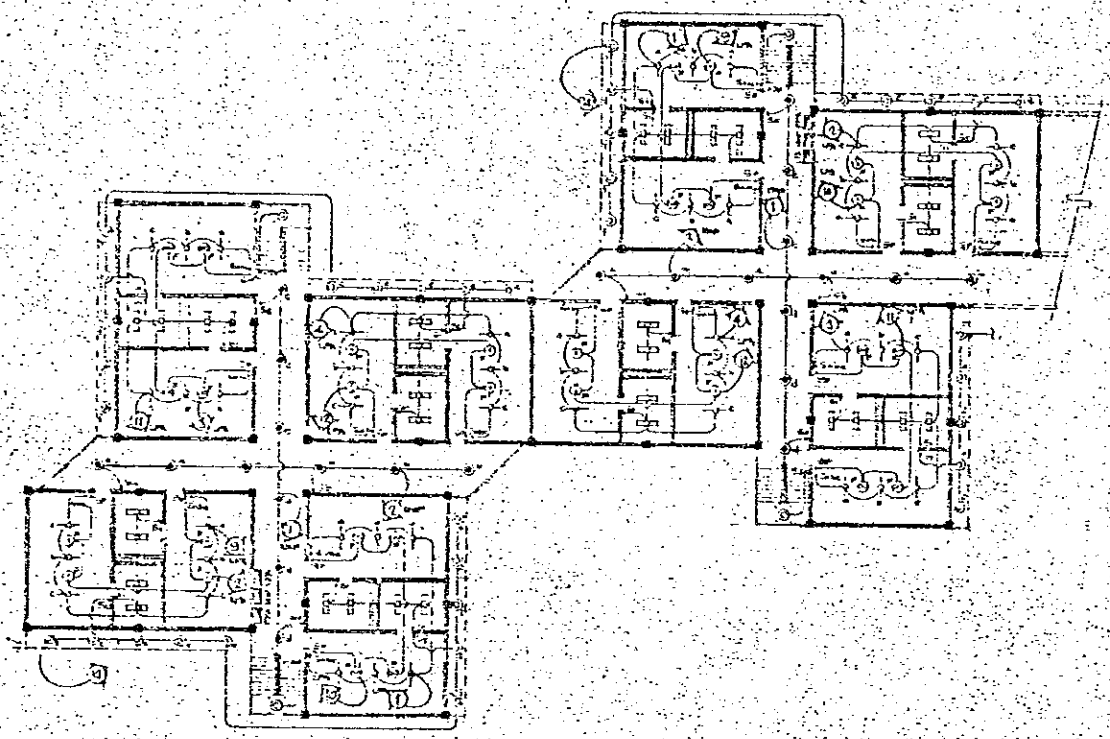


SCHEDULE OF COLUMN & SHEAR WALL FOOTINGS

BUILDING TYPE	COLUMN MARK	COLUMN & SHEAR WALL FTG. DIMENSIONS					COLUMN & SHEAR WALL FTG. REINFORCEMENT					
		"L"	"Y"	"B"	"X"	"T"	A (BOT)	B (BOT)	C (BOT)	D (BOT)	E (TOP)	F (TOP)
4 STOREY	F-1	2.30		2.30		.50	13-20MM.	13-20MM.				
	F-2	2.00		2.00		.45	11-20MM.	11-20MM.				
	F-3	1.85		1.85		.45	9-20MM.	9-20MM.				
	BWF-1	3.00		4.60		.30			4-12MM.	20-12MM.		
3 STOREY	SWF-1	6.00	1.50	4.45	.60	.65			29-20MM.	20-20MM.	22-16MM.	30-16MM.
	F-1											
	F-2											
	F-3											
2 STOREY	BWF-1											
	SWF-1											
	F-1											
	F-2											

APR 23 1980

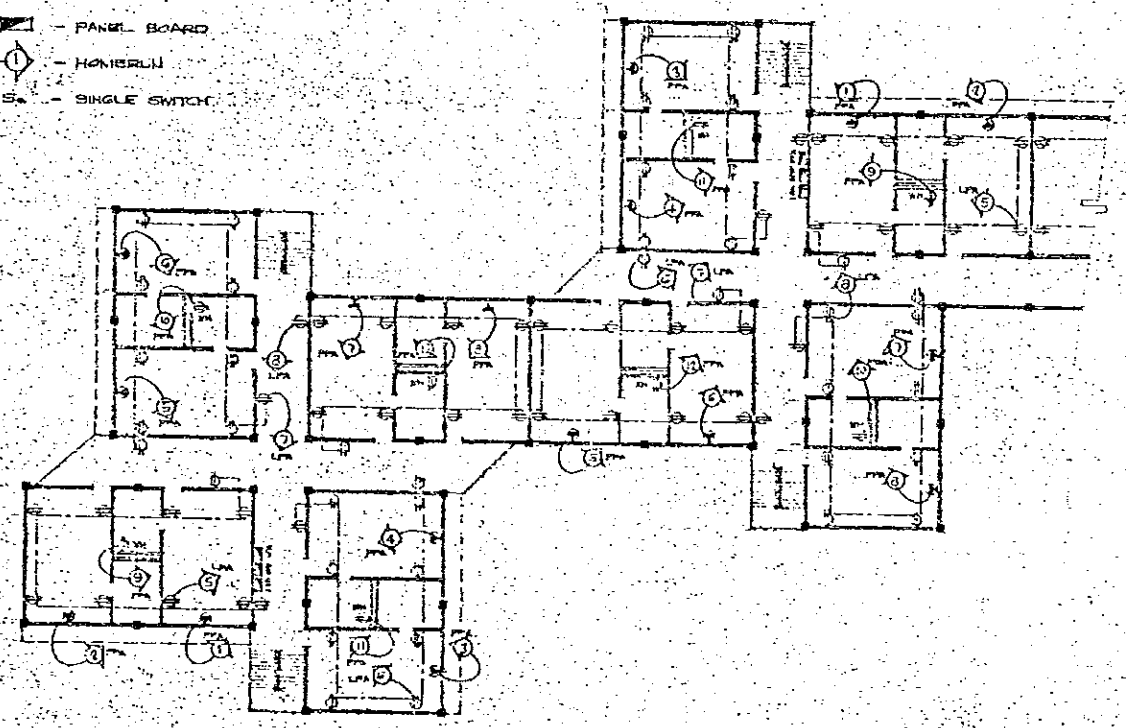
APPROVED FOR CONSTRUCTION
BY: _____
DATE: _____



E-1 TYPICAL LIGHTING LAYOUT OF BUILDING 1 TO 10
 SCALE 1:200 MTS.

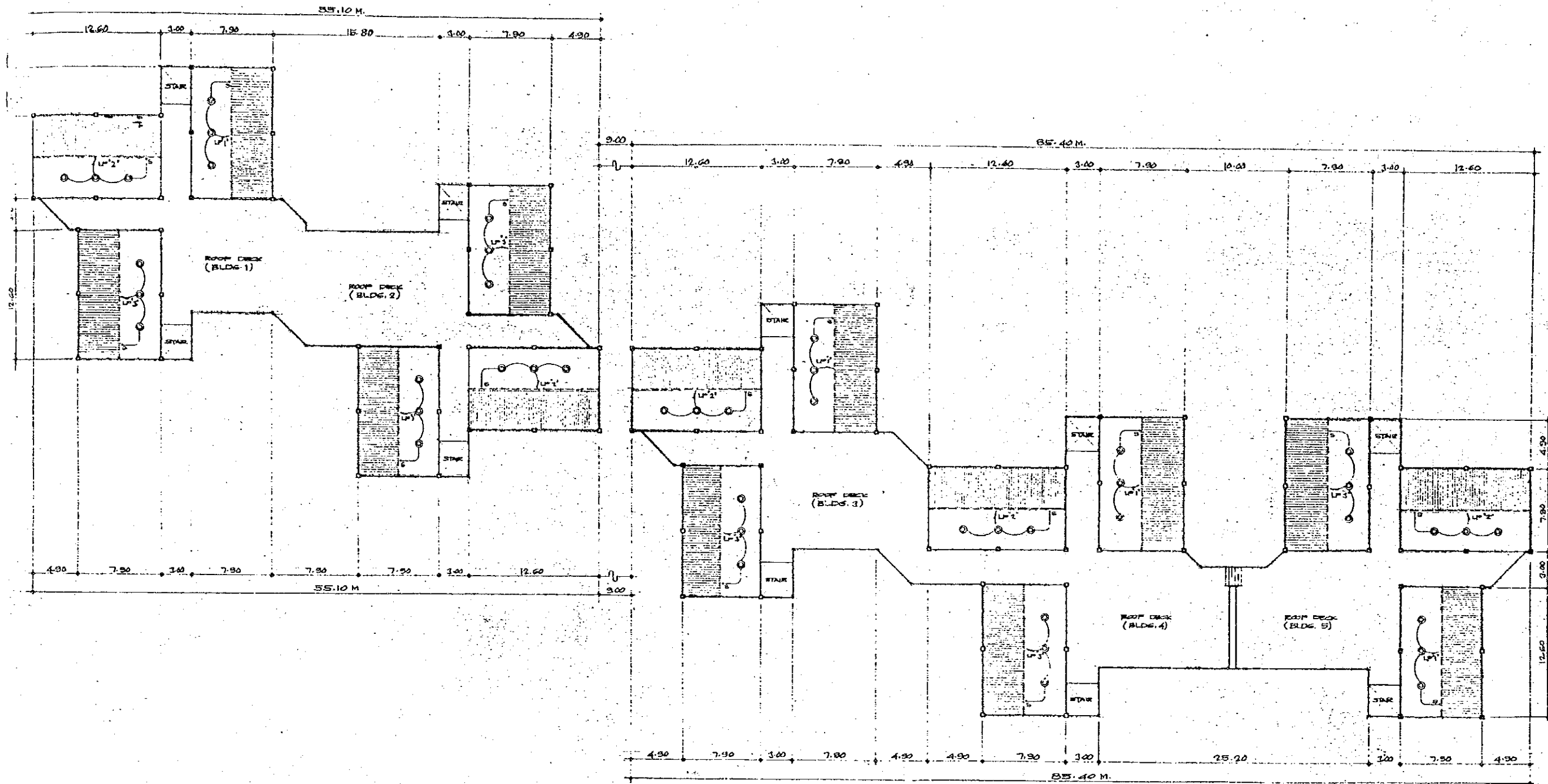
LEGEND:

- 1-40W FLUORESCENT LIGHT
- 2-40W FLUORESCENT LIGHT
- ⊙ PLUMBING (SURFACE MOUNTED)
- ⊙ EMERGENCY PLUMBING (SURFACE MOUNTED)
- ⊙ CEILING FAN
- ⊙ CONVENIENCE OUTLET
- ⊙ AIR CONDITION UNIT
- WH - WATER HEATER
- SW - THREE WAY SWITCH
- ⊠ PANEL BOARD
- ⊙ HORIZONTAL
- ⊙ SINGLE SWITCH



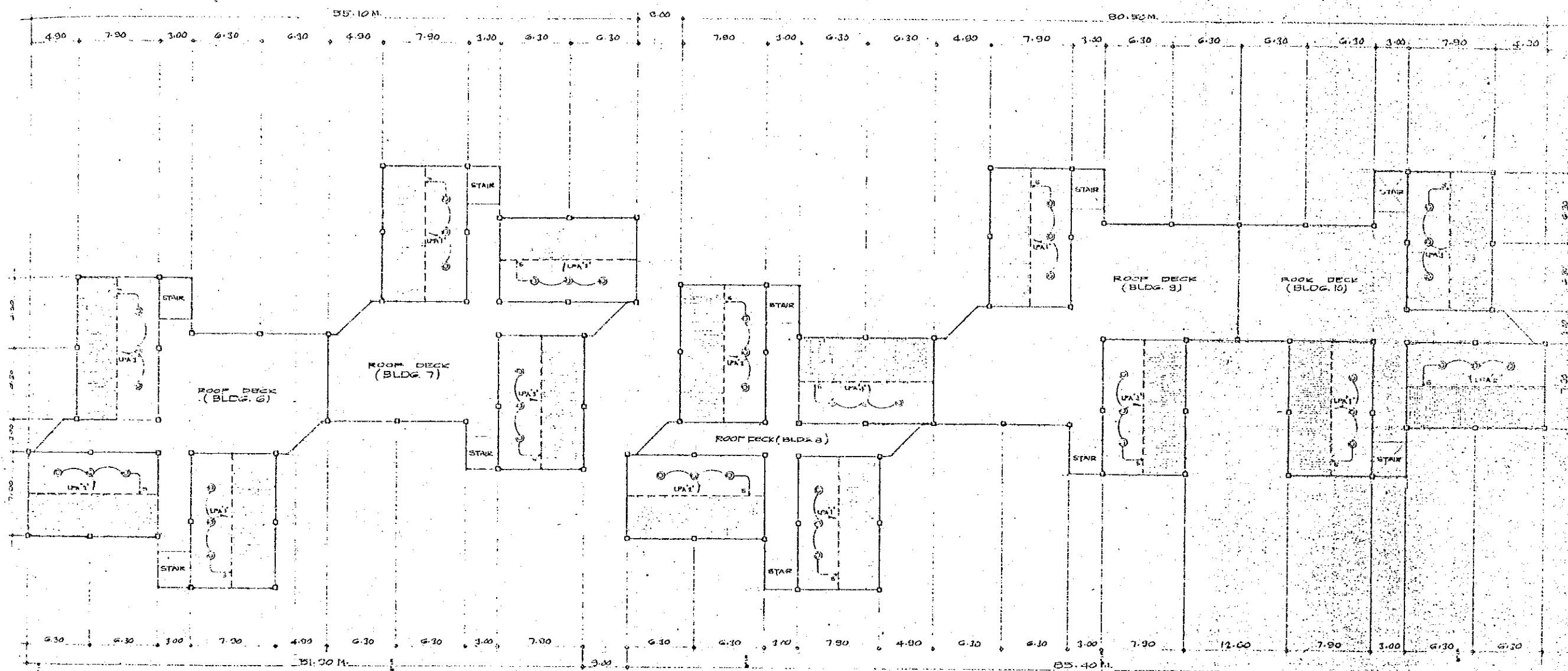
E-1 TYPICAL AUXILIARY POWER LAYOUT OF BUILDING 1 TO 10
 SCALE 1:200 MTS.

PROJECT TITLE: PAMANTASAN NG BAGONG LIFUNAN MEDICAL AVENUE TAGAYAYAN, PANGASINAN	DESIGNED BY: DR. JOSE CONRADO ENRIETA PROJECT ARCHITECT/INCHARGE	APPROVED BY: MARIBEL IMELDA FORNILLER MARCOS CHIEF ARCHITECT/INCHARGE	PREPARED BY: ENVIRONS SYSTEMS GROUP, INC. PLANNING - ARCHITECTS - ENGINEERS - INTERIORS DESIGNER - MARGARET ANASTAS	REVISIONS:	DESIGNED BY: ROX	SHEET TITLE: CORRIDORY BLDG. TYPICAL LIGHTING LAYOUT & AUXILIARY POWER LAYOUT OF BLDG 1-10	SHEET NO. E-1 3
PROJECT OWNER: HUMAN SETTLEMENTS DEVELOPMENT CORP. PTI TAGAYAYAN, PANGASINAN	DESIGNED BY: DR. JOSE CONRADO ENRIETA PROJECT ARCHITECT/INCHARGE	APPROVED BY: MARIBEL IMELDA FORNILLER MARCOS CHIEF ARCHITECT/INCHARGE	CONSULTANT: MARIA A. ALVARADO PTR # 073-115-704 PUB. # 1273	DATE:	DESIGNED BY: ROX		



E LIGHTING LAYOUT OF ROOF DECK (BLDG 1 TO 5)
 E-2 SCALE: 1:200 MTS.

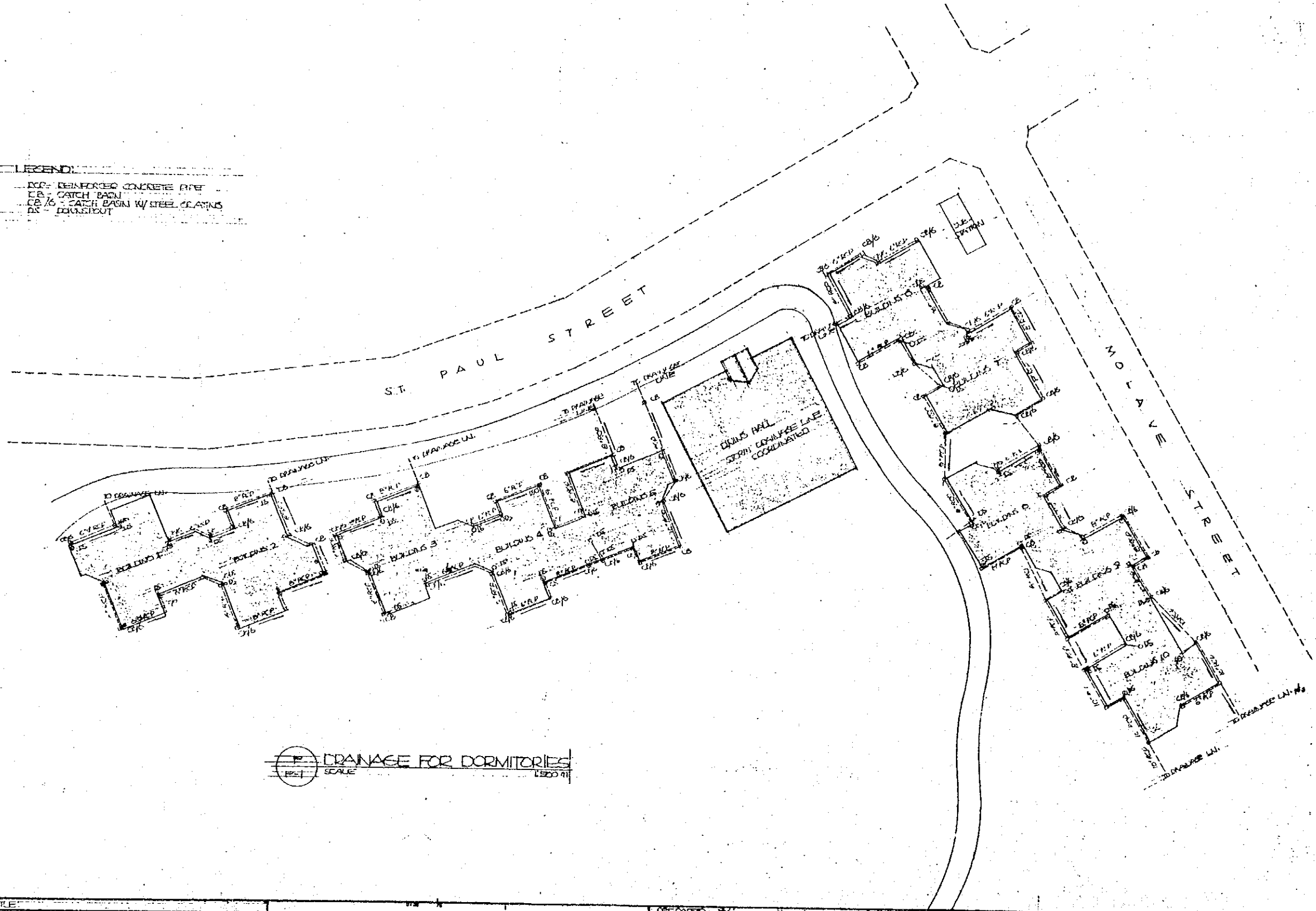
PROJECT TITLE: FAMANTASAN NG BAGONG LIPUNAN VERALDO AVE. PANGS. N.M.	SUBMITTED BY: JAYME U. HERRERA PROJECT ARCHITECT, MNS	RECOMMENDED BY: DR. JOSE CONRADO BENTON DEPUTY MINISTER, MNS	APPROVED BY: MARIE WILDA DOMALDES MARCOS MINISTER, MINISTRY OF HUMAN SETTLEMENT	PREPARED BY: ENVIRONS SYSTEMS GROUP, INC. PLANNERS • ARCHITECTS • BUSINESS • INTERIOR DESIGNERS CONSULTANTS: MARIA A. ALMAYOR PWR # 273	DESIGNED BY: JEDC CHECKED BY: DATE:	REVISIONS:	SHEET TITLE: DORMITORY BLDG. LIGHTING LAYOUT OF ROOF DECK 1-5	SHEET NO. E-2 3
PROJECT OWNER: HUMAN SETTLEMENTS DEVELOPMENT CORP. PTI TAGUIG, RIZAL				PTN # CTO-10-796 TAN 44528-4310-A-3				



LIGHTING LAYOUT OF ROOF DECK (BLDG. 6 TO 10)
 SCALE: 1:100
 DATE: MTC

PROJECT TITLE: FAMANTASAN NG BAGONG LIPUNAN HERNAN ALE	DESIGNED BY: JAMES U. NIEZGA FAMANTASANTIONS	PREPARED BY: DR. JANE L. ANDINO-REYES DR. JANE L. ANDINO-REYES, INC.	APPROVED BY: MARCOS NIEZA ZUNIGUEZ MARCOS DIRECTOR, BUREAU OF HUMAN SETTLEMENTS	DESIGNED BY: ENVIRONS SYSTEMS GROUP, INC. PLANNERS - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS	DESIGNED BY: DRAWN BY: CHK. CHECKED BY: DATE:	SHEET TITLE: DORMITORY BLDG. LIGHTING LAYOUT OF ROOF DECK (BLDG. 6-10)	SHEET NO. 3
PROJECT OWNER: HUMAN SETTLEMENTS DEVELOPMENT CORP.				REGISTERED: PRAK. & ADDRESS P.R. # 1273			

LEGEND:
 DCP - REINFORCED CONCRETE PIPE
 CB - CATCH BASIN
 CB 16 - CATCH BASIN W/ STEEL GRATING
 DK - DOWNSPOUT



DRAINAGE FOR DORMITORIES
 SCALE 1:500

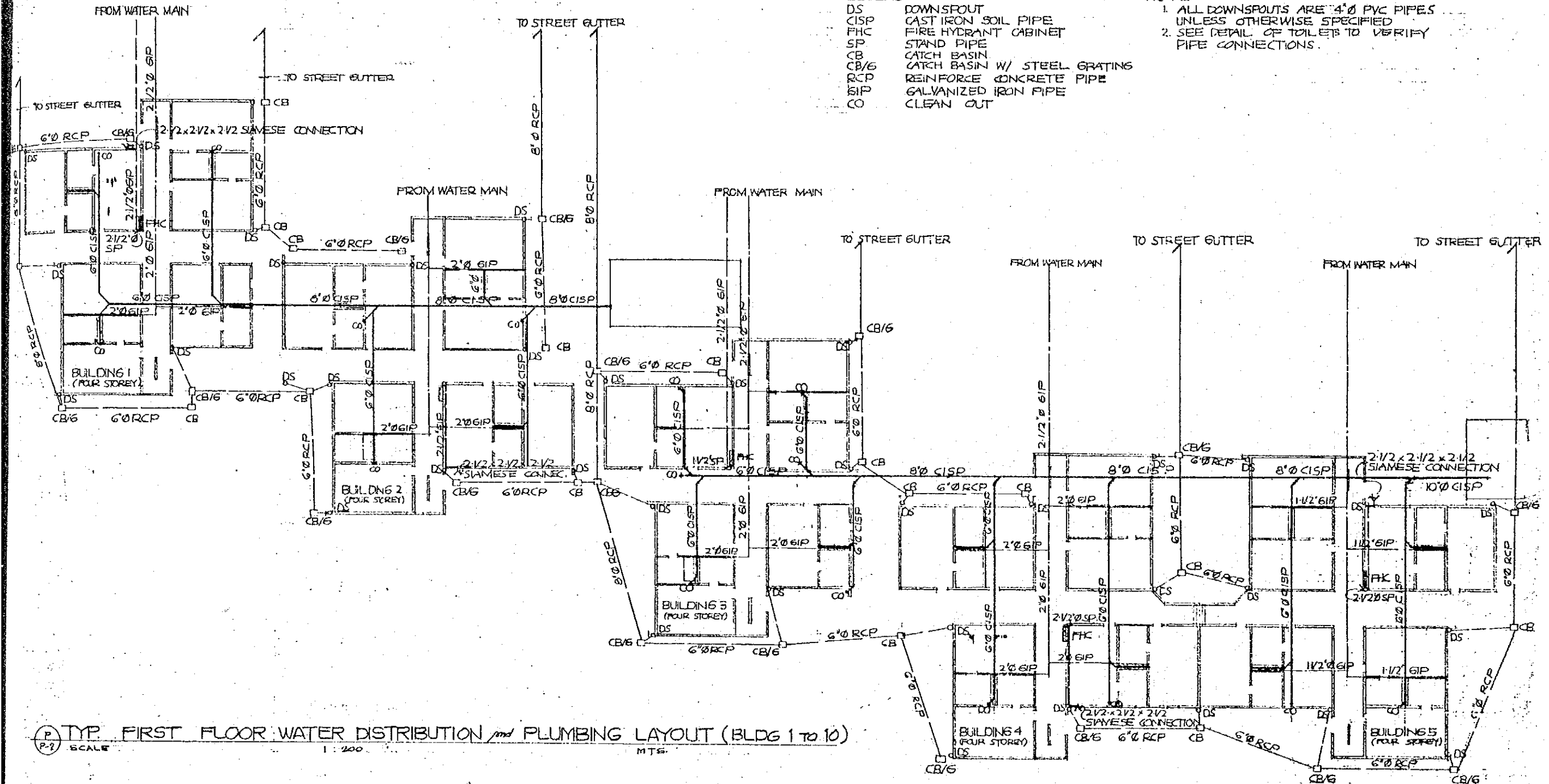
PROJECT TITLE PAMANTASAN NG BASONG LIPUNAN NEWBORN AREA		SUBMITTED BY _____ RECOMMENDED BY _____ APPROVED BY _____		PREPARED BY ENVIRONS SYSTEMS GROUP	REVIEWER	DESIGNED BY SHEET DESIGNER	SHEET NO.
PROJECT OWNER HUMAN SETTLEMENT DEV. CORP. TAGUIG CITY		PROJECT ARCHITECT JAVIER U. NERDANS DHS		PLANNERS ARCHITECTS ENGINEERS INT. DESIGNERS, LANDSCAPE ARCHITECTS CONSULTANTS ROGER A. HELLAND PR. # 074		DESIGNED BY DAVA	DORMITORY BLDG. DRAINAGE PLAN OF BUILDING 7-10 PP-1
		PROJECT ARCHITECT DERYU INJICER MHS		PLANNERS ARCHITECTS ENGINEERS INT. DESIGNERS, LANDSCAPE ARCHITECTS CONSULTANTS ROGER A. HELLAND PR. # 074		CHECKED BY	
						DATE	

LEGEND:

- DS DOWNSPOUT
- CISP CAST IRON SOIL PIPE
- FHC FIRE HYDRANT CABINET
- SP STAND PIPE
- CB CATCH BASIN
- CB/G CATCH BASIN W/ STEEL GRATINGS
- RCP REINFORCE CONCRETE PIPE
- SIP GALVANIZED IRON PIPE
- CO CLEAN OUT

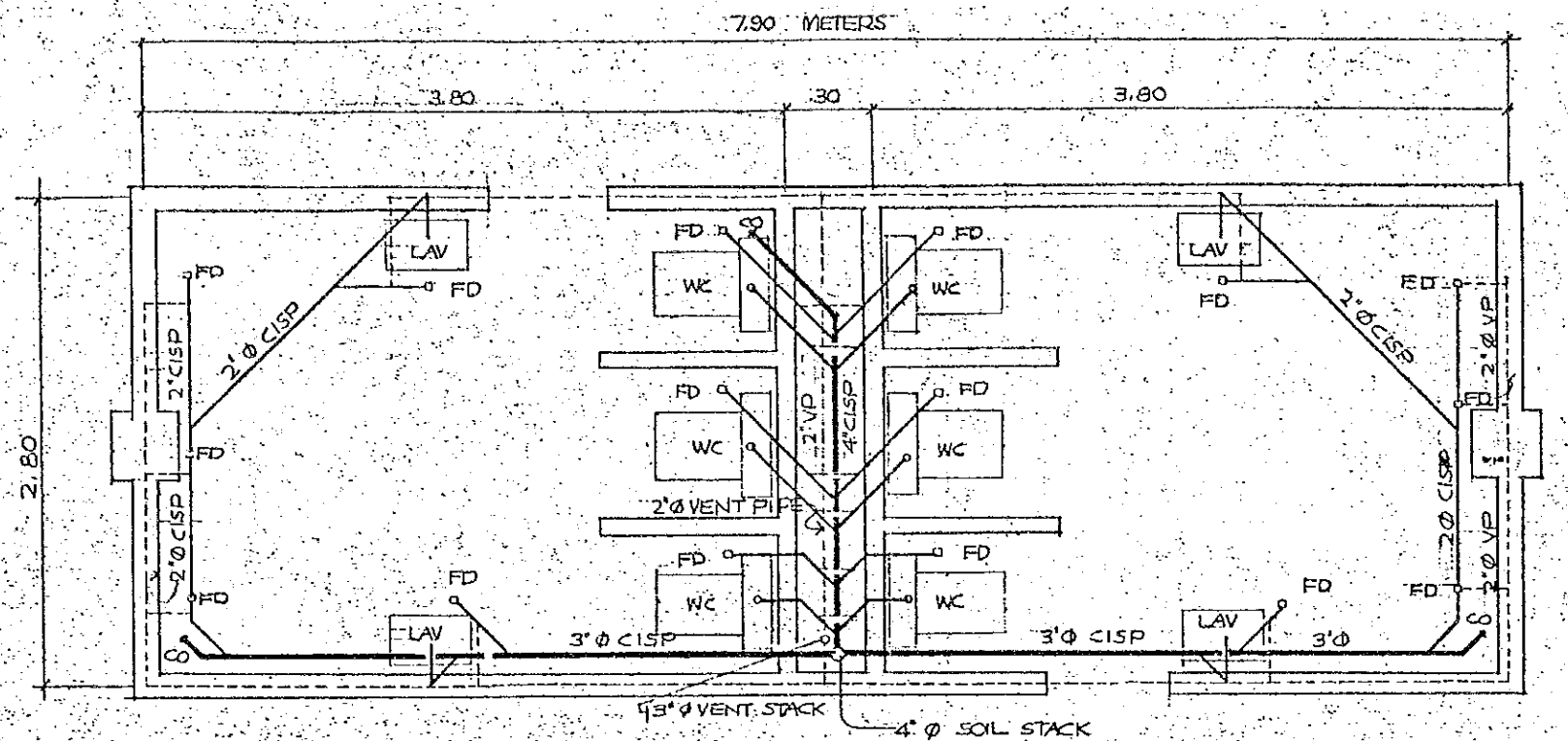
NOTE:

1. ALL DOWNSPOUTS ARE 4" PVC PIPES UNLESS OTHERWISE SPECIFIED
2. SEE DETAIL OF TOILETS TO VERIFY PIPE CONNECTIONS.



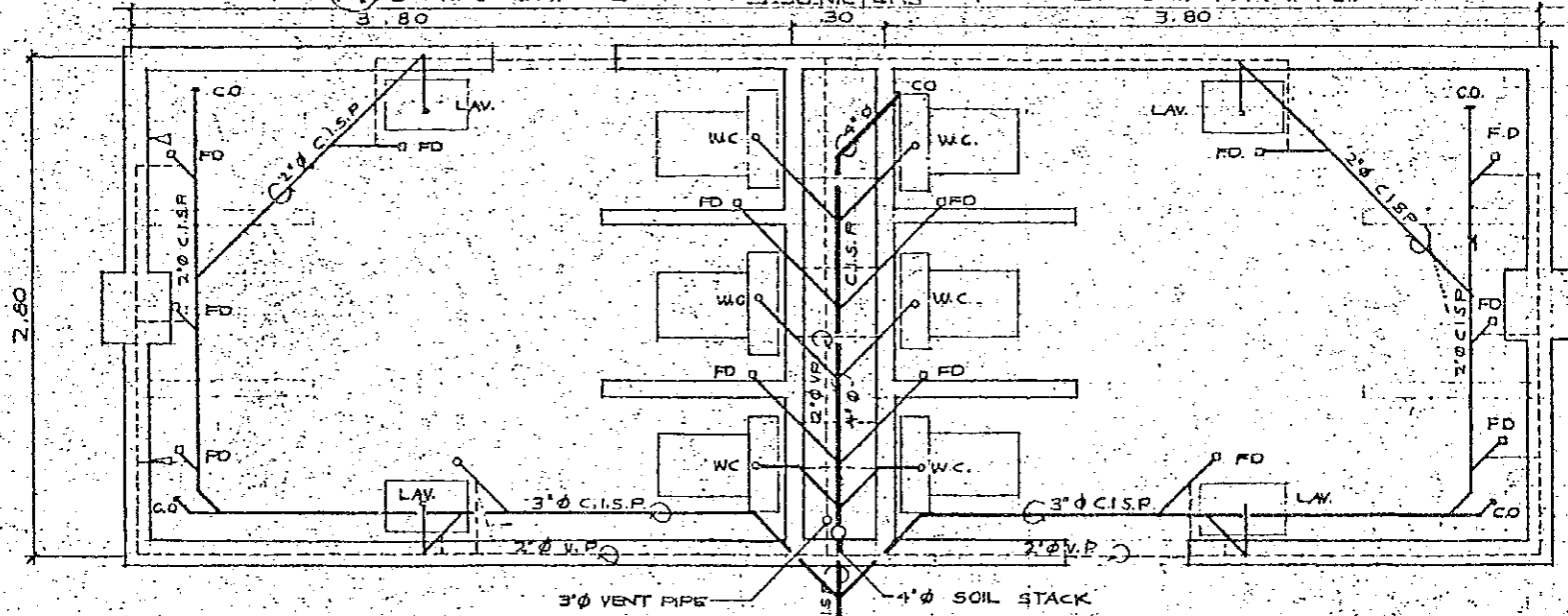
P-2 TYP. FIRST FLOOR WATER DISTRIBUTION and PLUMBING LAYOUT (BLDG 1 TO 10)
SCALE 1:200 MTS.

PROJECT TITLE: PAMANTASAN NG BAGONG LIPUNAN MIRALDO AVE. TAGUIG, M.M.	SUBMITTED BY: JAMES U. NISORAS PROJECT ARCHITECT, NAC	RECOMMENDED BY: DR. JOSE GONZALES BANTUA DEPUTY MINISTER, NAC	APPROVED BY: MARCOS HERRERA REYNALDES DIRECTOR, MINISTRY OF HUMAN SETTLEMENTS	PREPARED BY: ENVIRONS SYSTEMS GROUP, INC. PLANNERS - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS CONSULTANTS: RODRIGO APOLLANO PTR. P.C.T. - 116317 C.E. R.O. 74	REVISIONS:	DESIGNED BY: LARRY	CHECKED BY:	DATE:	SHEET TITLE: DORMITORY BLDGS. TYPICAL GROUND FLOOR PLUMBING LAYOUT and WATER DISTRIBUTION LAYOUT (BLDG. 1-10)	SHEET No. P-2 3
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SECOND-FOURTH TYPICAL PLUMBING LAYOUT (BLDG 1 to 10)

- LEGEND:**
- LAV - LAVATORY
 - WC - WATER CLOSET
 - FD - FLOOR DRAIN
 - CO - CLEAN OUT
 - CISP - CAST IRON SOIL PIPE
 - VP - VENT PIPE



GROUND FLOOR TYPICAL PLUMBING LAYOUT (BLDG 1 to 10)

PROJECT TITLE: PAMANTASAN NG BAGONG LIPUNAN MAYALDO ALANG PAGSISIMULA	SUBMITTED BY: JAMIE U. HERRERA PROJECT ARCHITECT, PRC	RECOMMENDED BY: DR. JOSE CARLOS BELTRAN DEPUTY P.A.	APPROVED BY: MADAME BELLA ROMUALDO MARCOS INSPECTOR, DIVISION OF HUMAN SETTLEMENTS	PREPARED BY: ENVIRON SYSTEMS GROUP, INC. PLANNERS - ARCHITECTS - ENGINEERS - INTERIOR DESIGNERS - LANDSCAPE ARCHITECTS	DESIGNED BY: LARRY CHECKED BY:	SHEET TITLE: GROUND TO FOURTH FLOOR TOILET TYPICAL PLUMBING LAYOUT (BLDG 1 to 10)	SHEET NO. 10
PROJECT OWNER: HUMAN SETTLEMENTS DEVELOPMENT CORP. PTI TAGUIG, RIZAL				CONSULTANTS: ROSEB ARELLANO CE, R 274	REVISIONS:		

