

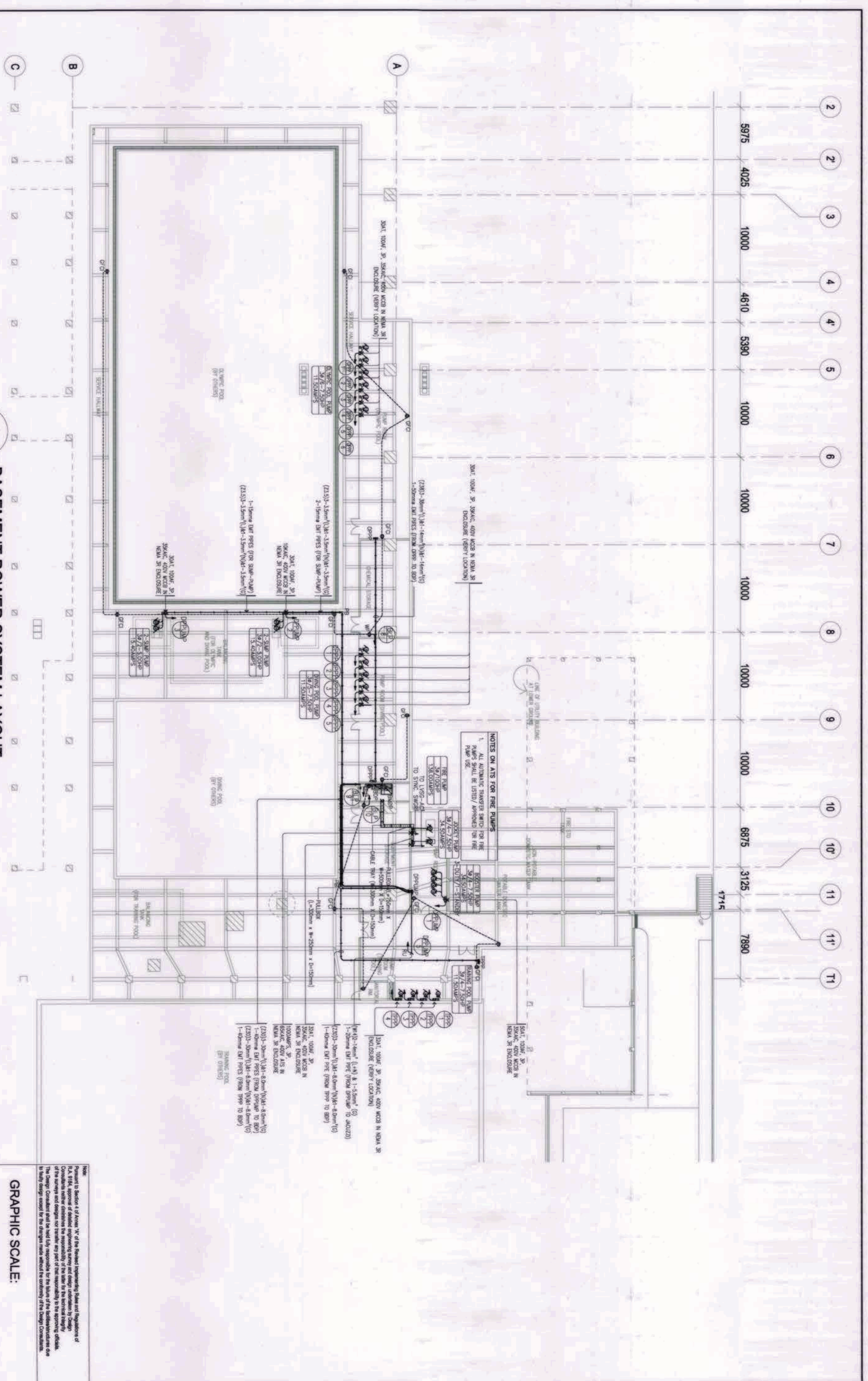
1  
**BASEMENT LIGHTING SYSTEM LAYOUT**  
 SCALE: 1:200

**GRAPHIC SCALE:**  
 4000 2000 0 4000 10000  
 SCALE: 1:200



Note:  
 Pursuant to Section 4 of Annex 'A' of the Revised Implementing Rules and Regulations of R.A. 9164, approval of detailed engineering drawings and design undertaken by Design Engineers shall be subject to the responsibility of the engineer or the architect. The Design Consultant shall be held fully responsible for the failure of the engineering design due to faulty design issued for the design made without the conformity of the Design Consultants.

OWNER: NSAC PHASE I JV COMPANY	PREPARED BY:	REVIEWED AND VALIDATED BY:	SUBMITTED BY:	CERTIFIED BY: INDEPENDENT CONSULTANT	PROJECT TITLE:	SHEET NO.:
AND VINCENZO B. DUDON, PRESIDENT	 Hilmar's Construction Corporation 1835 E. Rodriguez St., Alameda, Cebu, Cebu City JESSIE V. HERRERA, PROJECT MANAGER	 ARCHITECTURAL & ENGINEERING CONSULTANTS 1105 E. Rodriguez St., Alameda, Cebu, Cebu City ANTONIO B. PERILLA, PROJECT MANAGER	 BANDAR HEBAT BUILDERS, INC. ISMAEL S. DAVID, PRESIDENT	 TCGI ENGINEERS 1001 P. Fernandez St., 10th Floor, Alameda, Cebu, Cebu City VERONICA MADRANO, PRESIDENT/CEO	AS-BUILT DRAWING NSAC PHASE 1A <b>AQUATIC CENTER</b> NEW CLARK CITY, CAPAS, TARLAC	EE-02



**BASEMENT POWER SYSTEM LAYOUT**

SCALE: 1:200

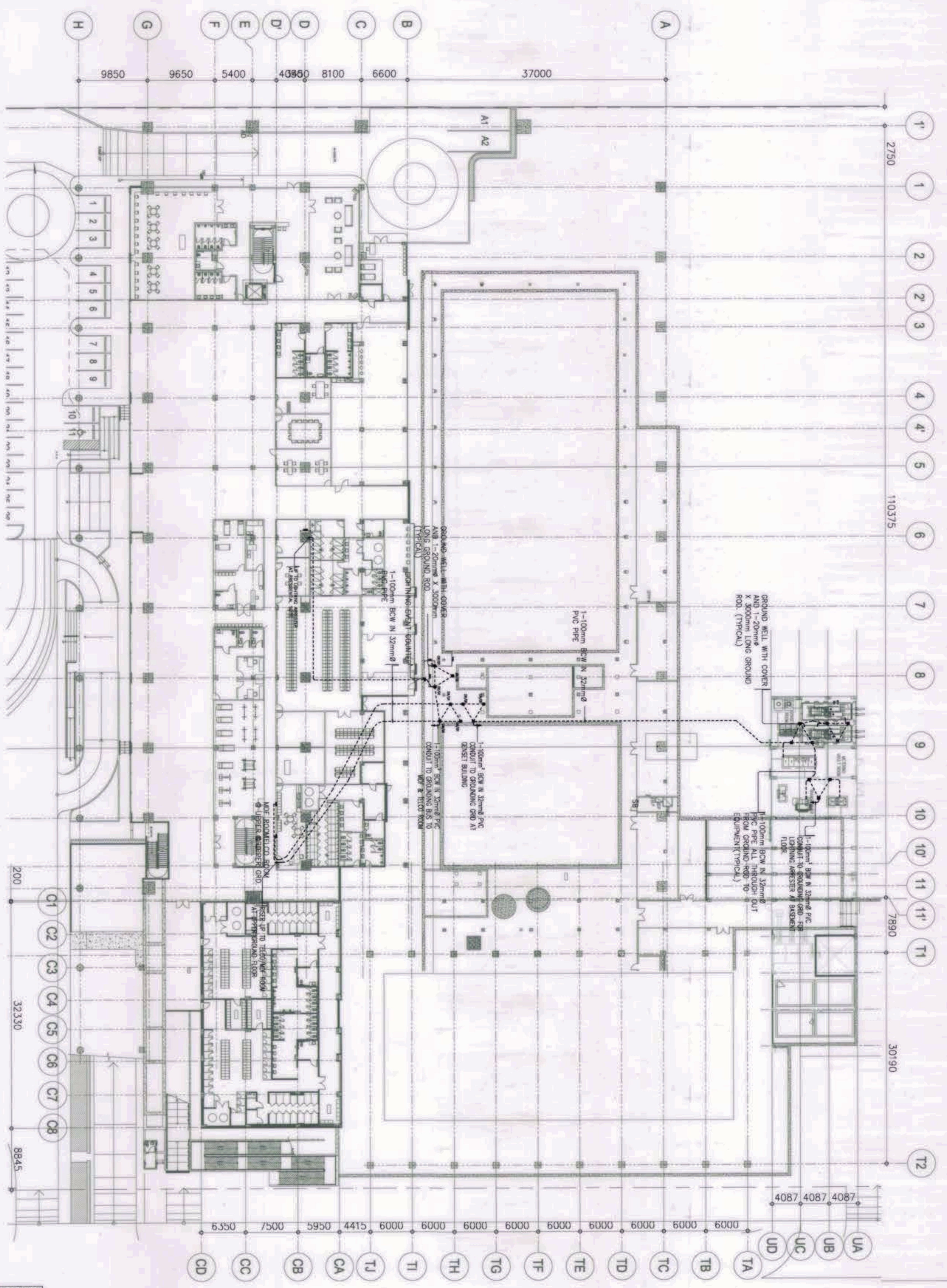
GRAPHIC SCALE:

4000 2000 0 4000 10000

SCALE 1:200

N

<p>OWNER: NGAC PHASE 1 JV COMPANY</p> <p>BCDA VICENCIO B. PEZON PRESIDENT</p> <p>AND KTD Group, Inc. PATRICK NICHOLAS P. DAVID PRESIDENT</p>	<p>PREPARED BY:</p> <p>Hilmarc's Construction Corporation 1885 E. Rodriguez St., Aventura, Cuban, Queens City JESUS V. HERBAS PROJECT MANAGER</p>	<p>REVIEWED AND VALIDATED BY:</p> <p>FILIPINAS DRAVO CORPORATION Architectural &amp; Engineering Corporation 1000 N. O'Connell Blvd., Suite 1000, Miami, FL 33132 ALFREDO R. REYLLA PROJECT MANAGER</p>	<p>SUBMITTED BY:</p> <p>BANDAR HERBAT BUILDERS, INC. ISMA S. DAWD PRESIDENT</p>
<p>CERTIFIED BY: INDEPENDENT CONSULTANT</p> <p>TCGI ENGINEERS 3070 Fiske Blvd., 10th Fl., Suite 1000, Miami, FL 33133 VIRGILIO A. MADRICO PRESIDENT/CEO</p>		<p>PROJECT TITLE:</p> <p>AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPAS, TABLAC</p>	
<p>SHEET NO.:</p> <p>EE-03</p>		<p>SHEET CONTENTS:</p> <p>BASEMENT FLOOR POWER SYSTEM LAYOUT</p>	

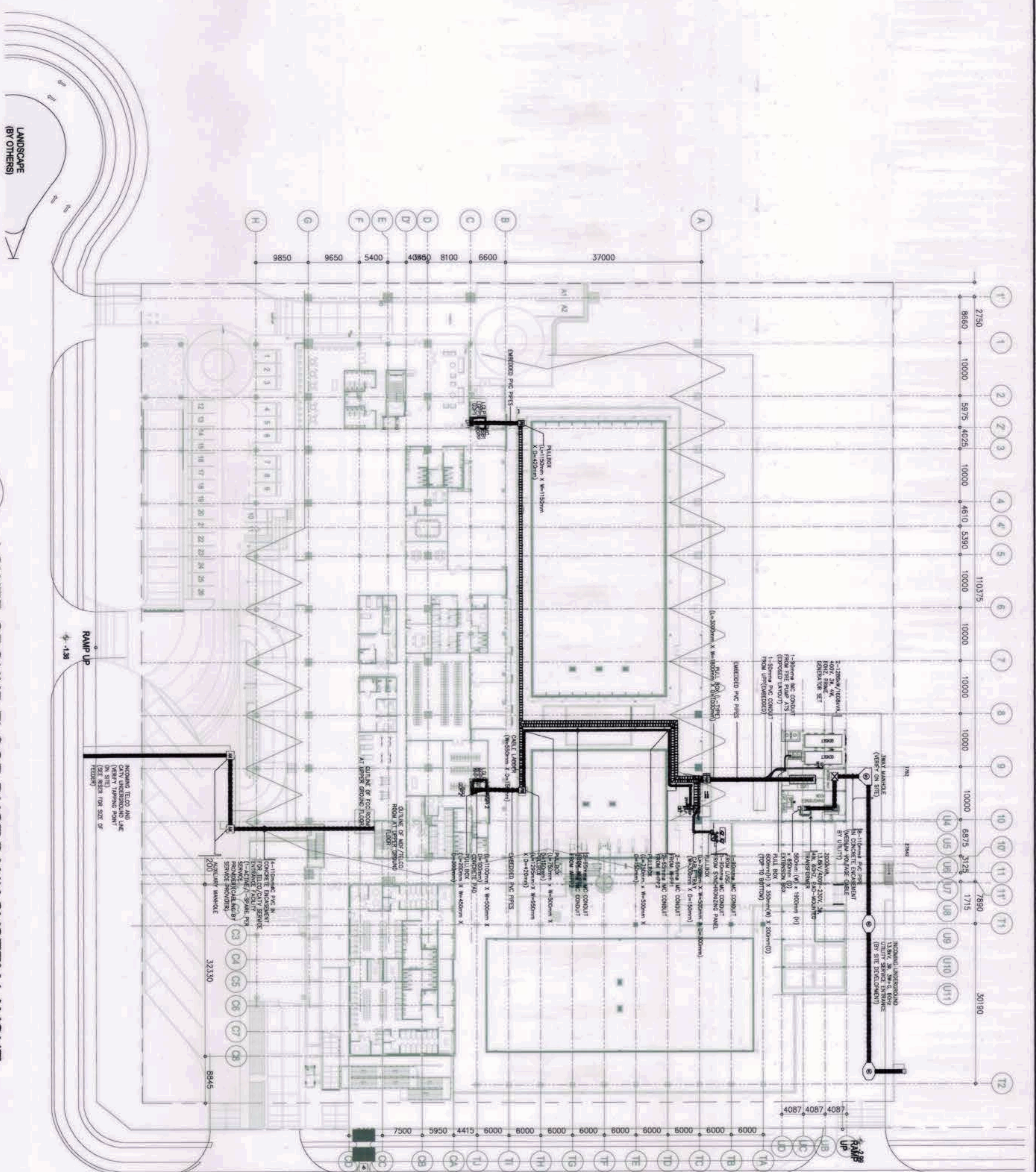


1 GROUNDING SYSTEM LAYOUT  
SCALE: 1:300

GRAPHIC SCALE:  
4000 2000 0 4000 10000  
SCALE 1:300

**NOTE:**  
Pursuant to Section 4 of Annex 'X' of the Revised Implementing Rules and Regulations of RA 9246, approval of detailed engineering survey and design documents by Design Consultants neither diminishes the responsibility of the author of the technical content of the drawings and designs nor transfers any part of that responsibility to the approving official. The Design Consultant shall be held liable responsible for the failure of the substructure due to faulty design except for the changes made without the consent of the Design Consultant.

<p>OWNER: NGAC PHASE I JV COMPANY</p> <p><b>BCDA</b> VICENCIO B. DIZON PRESIDENT</p> <p>AND</p> <p><b>MJD Clark, Inc.</b> PATRICK NICHOLAS P. DAVO PRESIDENT</p>	<p>PREPARED BY:</p> <p><b>Hilmar's Construction Corporation</b> 1885 E. Rodriguez St., Avenue, Cebu, Quezon City JESUS V. VERDAS PROJECT MANAGER</p>	<p>REVIEWED AND VALIDATED BY:</p> <p><b>FILIPINAS A. ENRINO &amp; CONSULTANTS</b> ALFREDO R. REVILLA PROJECT MANAGER</p>	<p>SUBMITTED BY:</p> <p><b>BANDAR HERBAT BUILDERS, INC.</b> ISAAC S. DAVO PRESIDENT</p>	<p>CERTIFIED BY: INDEPENDENT CONSULTANT</p> <p><b>TCGI ENGINEERS</b> VICENTE A. MADRADO PRESIDENT/CEO</p>	<p>PROJECT TITLE:</p> <p><b>AS-BUILT DRAWING</b> NGAC PHASE 1A <b>AQUATIC CENTER</b> NEW CLARK CITY, CAPAS, TARLAC</p>	<p>SHEET CONTENTS:</p> <p>BASEMENT FLOOR/POWERHOUSE GROUNDING SYSTEM LAYOUT</p>	<p>SHEET NO.:</p> <p><b>EE-03A</b></p>
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LANDSCAPE  
(BY OTHERS)

1  
SCALE: 1:1400

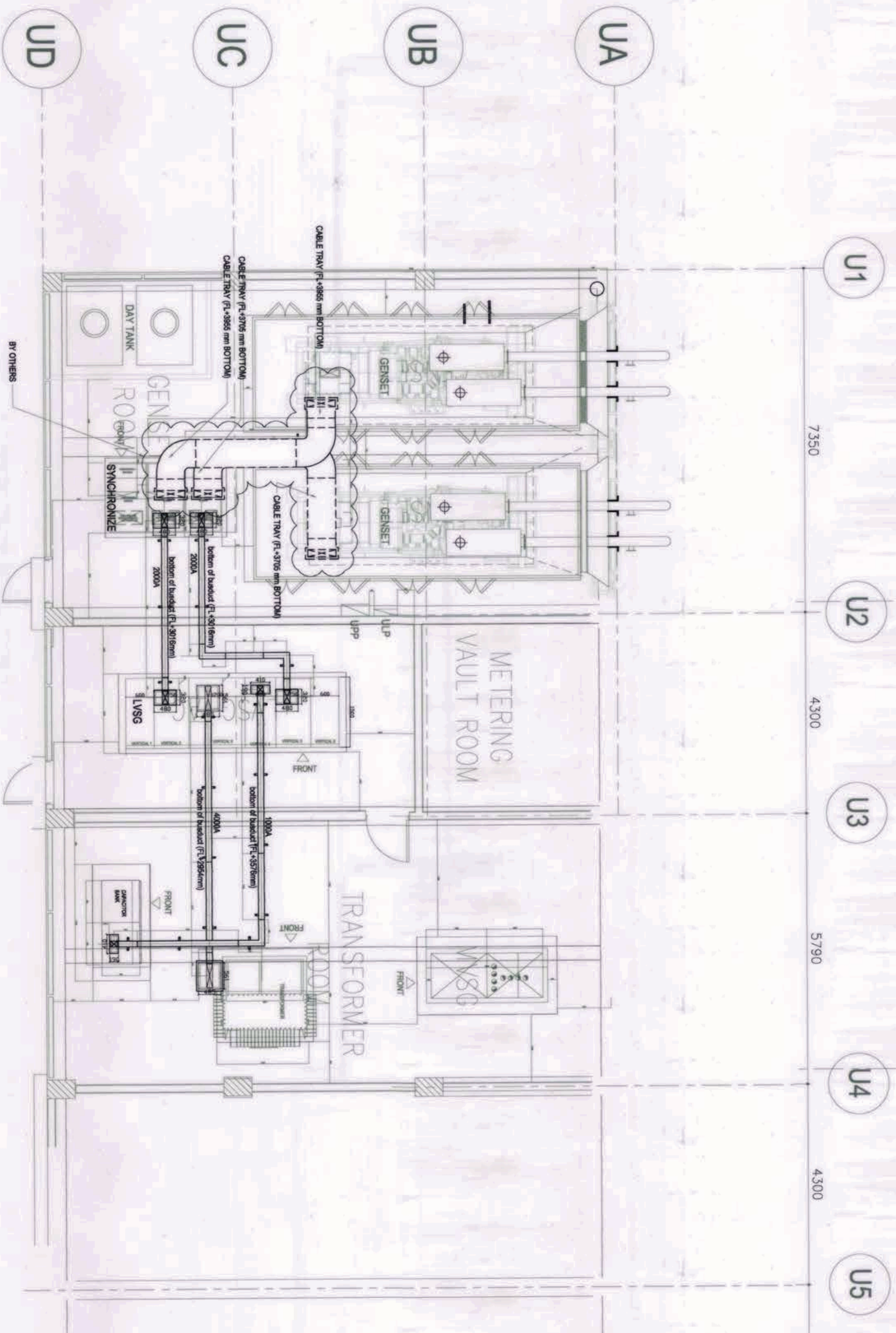
# LOWER GROUND FLOOR DUCT BANK SYSTEM LAYOUT

**GRAPHIC SCALE:**  
0 4000 1:100



Note:  
Prepared by Section 4 of Annex 'A' of the Standard Implementing Rules and Regulations of RA 9164, approved or detailed engineering survey and design, undertaken by Design Consultants neither deviates the responsibility of the latter, nor the technical integrity of the surveys and designs nor transfer any part of that responsibility to the approving officials. The Design Consultant shall be held liable responsible for the failure of the substructure due to faulty design except for the changes made without the consent of the Design Consultant.

<p>OWNER: NGAC PHASE I JV COMPANY</p>	<p>PREPARED BY:</p>	<p>REVIEWED AND VALIDATED BY:</p>	<p>SUBMITTED BY:</p>	<p>CERTIFIED BY: INDEPENDENT CONSULTANT</p>	<p>PROJECT TITLE:</p> <p>AS-BUILT DRAWING NGAC PHASE I A AQUATIC CENTER NEW CLARK CITY, CAPAS, TARLAC</p>
<p>PRESIDENT</p>	<p>1835 E. Rodriguez St., Aurora, Cebu, Quezon City</p> <p>ASIS V. YERBAS PROJECT MANAGER</p>	<p>Architectural &amp; Engineering Consultants 1000 N. E. Rodriguez St., Aurora, Cebu, Quezon City</p> <p>ALFREDO R. REVILLA PROJECT MANAGER</p>	<p>ISMAIC S. DAVID PRESIDENT</p>	<p>5017 F. Rizal Bldg., 10th Fl., Subic Bldg. Complex, Subic Bay, Zambales</p> <p>ARONILDO A. MADRADO PRESIDENT/CEO</p>	<p>SHEET NO.:</p> <p>LOWER GROUND FLOOR DUCT BANK SYSTEM LAYOUT</p> <p>EE-04</p>

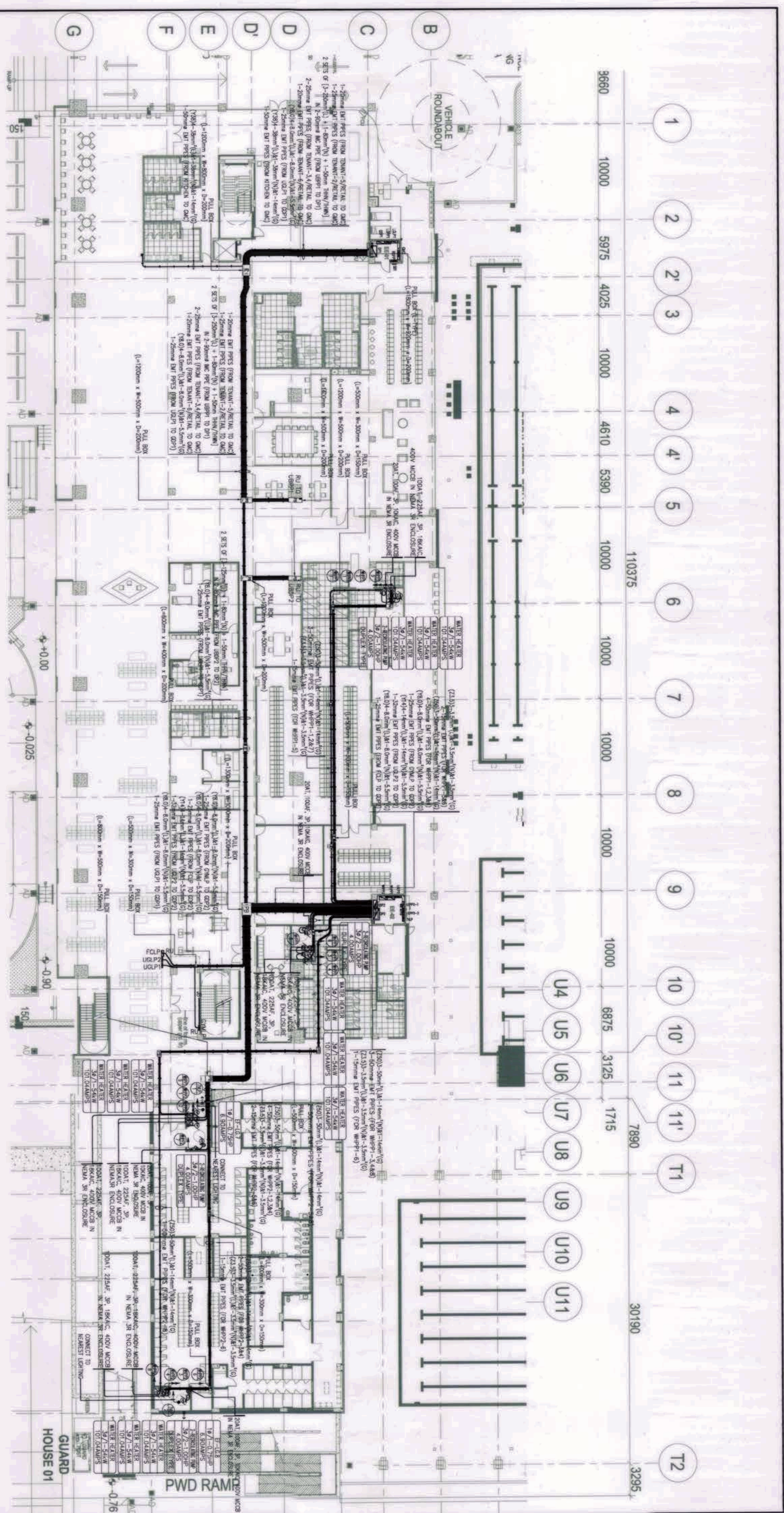


1 POWER HOUSE - BUSDUCT LAYOUT  
 EE-04A SCALE: 1:50

GRAPHIC SCALE:  
 0 4000  
 1:50  
 N

Note:  
 Pursuant to Section 4 of Annex 'A' of the Revised Implementing Rules and Regulations of R.A. 9164, approval of detailed engineering drawings and design documents by Design Consultants shall be limited to the review of the drawings and design documents for compliance with the approved standards and specifications. The Design Consultant shall be held fully responsible for the failure of the implementation due to faulty design except for the changes made without the consent of the Design Consultant.

OWNER: NGAC PHASE 1 JV COMPANY	PREPARED BY: Hilmar's Construction Corporation 1833 E. Rodriguez St., Antena, Cebu, Quezon City JESUS V. HERBAS PROJECT MANAGER	REVIEWED AND VALIDATED BY: FILIPINAS DRAVO CORPORATION Architectural & Engineering Division 1000 N. L. Road, Cebu City, Philippines ABREGO, BENJALA PROJECT MANAGER	SUBMITTED BY: BANDAR HEBAT BUILDERS, INC. ISAAC S. DAWD PRESIDENT	CERTIFIED BY: INDEPENDENT CONSULTANT TCGI ENGINEERS VENILLO A. MADRADO PRESIDENT/CEO	PROJECT TITLE: AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPAS, TARLAC	SHEET NO.: EE-04A
BCDA VICENCIO B. DIZON PRESIDENT	AND PATRICK NICHOLAS P. DAWD PRESIDENT	FTI Architectural & Engineering Division 1000 N. L. Road, Cebu City, Philippines ABREGO, BENJALA PROJECT MANAGER	ISAAC S. DAWD PRESIDENT	VENILLO A. MADRADO PRESIDENT/CEO		



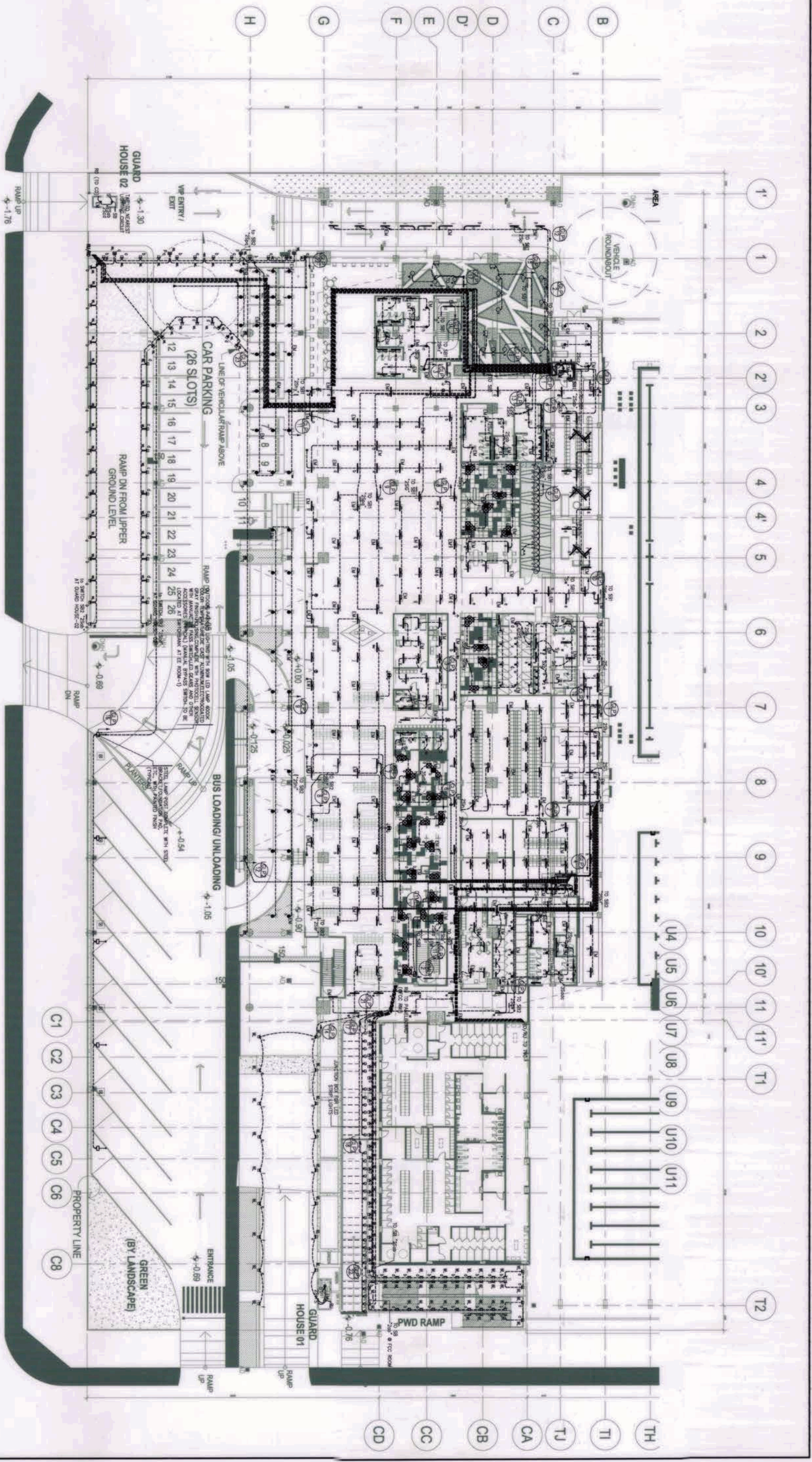
**1**  
**LOWER GROUND FLOOR**  
**FEEDERLINE SYSTEM LAYOUT**  
 SCALE: 1:200

**GRAPHIC SCALE:**  
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 SCALE 1 : 200



Noted:  
 Pursuant to Section 4 of Annex 'A' of the Revised Engineering Rules and Regulations of P.A. 9184, approved of detailed engineering survey and design, undertaken by Design Consultants, the Engineer shall be held liable for the accuracy of the design and calculations. The Designer/Consultant shall be held liable for the accuracy of the design and calculations. The Designer/Consultant shall be held liable for the accuracy of the design and calculations. The Designer/Consultant shall be held liable for the accuracy of the design and calculations.

<p>OWNER: NGAC PHASE 1A COMPANY</p> <p>BCDA AND          WENDEL B. DAZON PRESIDENT</p>	<p>PREPARED BY:</p> <p>Hilmar's Construction Corporation          1885 E. Rodriguez St., Aurora, Cebu, Quezon City          JESUS V. VERBAS PROJECT MANAGER</p>	<p>REVIEWED AND VALIDATED BY:</p> <p>FILIPINAS DRAVO CORPORATION          ALFREDO B. REVILLA PROJECT MANAGER</p>	<p>SUBMITTED BY:</p> <p>BANDAR HERBAT BUILDERS, INC.          ISAAC S. DAVID PRESIDENT</p>
<p>CERTIFIED BY: INDEPENDENT CONSULTANT</p> <p>TCGI ENGINEERS          VIRGILIO A. MADRADO PRESIDENT/CEO</p>		<p>PROJECT TITLE:</p> <p>AS-BUILT DRAWING          NGAC PHASE 1A  <b>AQUATIC CENTER</b>          NEW CLARK CITY, CAPAS, TARLAC</p>	
<p>SHEET NO.</p> <p>EE-048</p>		<p>SHEET CONTENTS:</p> <p>LOWER GROUND FLOOR          FEEDERLINE SYSTEM LAYOUT</p>	



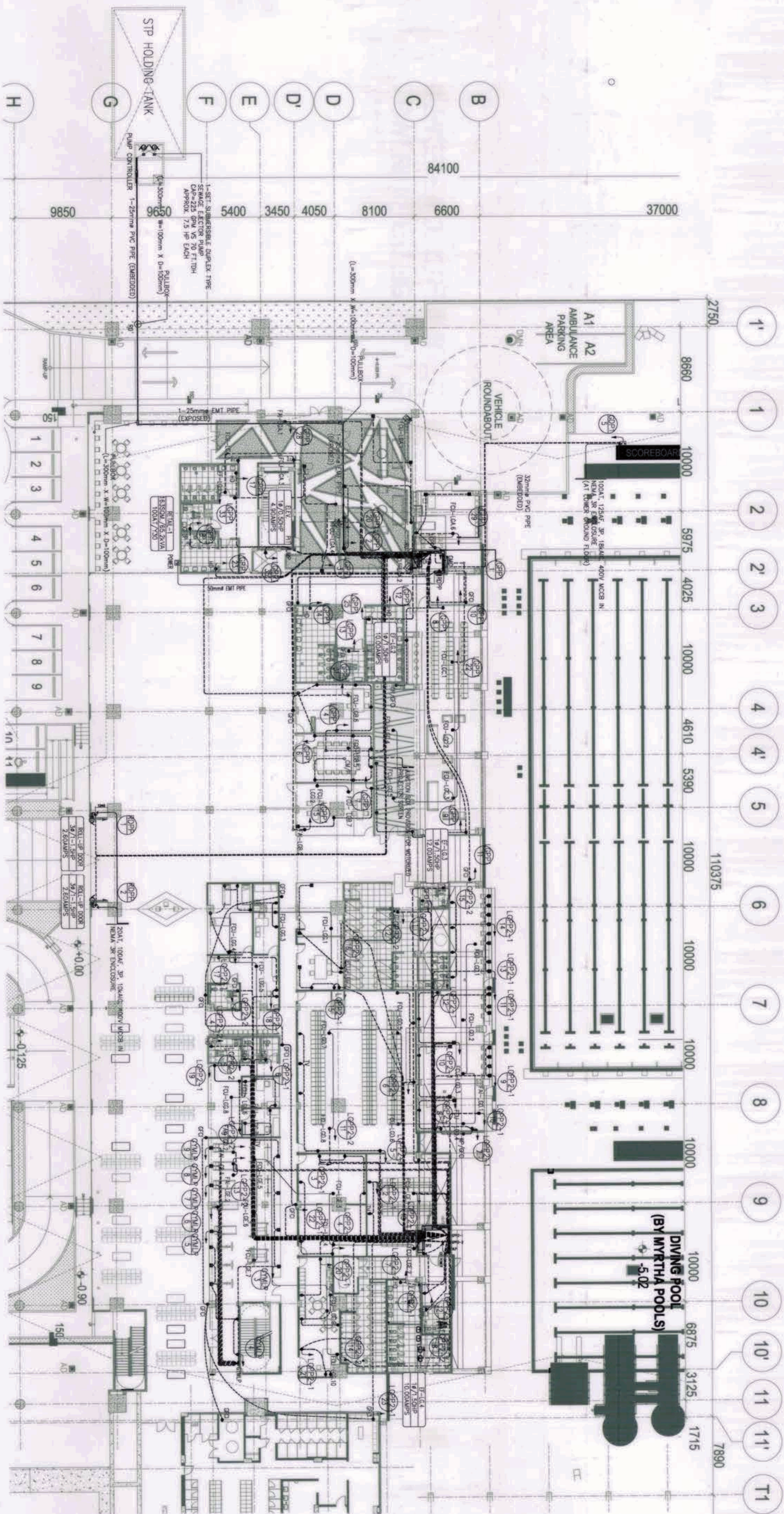
**1**  
**LOWER GROUND FLOOR**  
**LIGHTING SYSTEM LAYOUT**  
 SCALE: 1:250



NOTE:  
 Pursuant to Section 4 of Annex 'A' of the Revised Implementing Rules and Regulations of the National Building Code of the Philippines (PD 1096), the Engineer/Architect/Designer shall be held liable for the safety and soundness of the structure and design of the building and shall be held responsible for the safety of the occupants. The Design Consultant shall be held liable for the safety of the occupants and shall be held responsible for the safety of the occupants. The Design Consultant shall be held liable for the safety of the occupants and shall be held responsible for the safety of the occupants.

<p>OWNER: NGAC PHASE 1 JV COMPANY</p> <p>BCDA VICENCIO B. PISON PRESIDENT</p> <p>AND MJP Construction PATRICK NICHOLAS P. RAMOS PRESIDENT</p>	<p>PREPARED BY:</p> <p>Hilmar's Construction Corporation 1635 E. Rodriguez St., Alameda, Cebu, Quezon City JESSIE V. JERBAS PROJECT MANAGER</p>	<p>REVIEWED AND VALIDATED BY:</p> <p>FILIPINAS DRAVO CORPORATION Architectural &amp; Engineering Consultants ALFREDO B. JEFFUA PROJECT MANAGER</p>	<p>SUBMITTED BY:</p> <p>BANDAR HERBAT BUILDERS, INC. ISMAEL S. DAVID PRESIDENT</p>
<p>CERTIFIED BY: INDEPENDENT CONSULTANT</p> <p>TCGI ENGINEERS VEROLDO A. MADRADO PRESIDENT/CEO</p>		<p>PROJECT TITLE:</p> <p>AS-BUILT DRAWING NGAC PHASE 1A <b>AQUATIC CENTER</b> NEW CLARK CITY, CAPAS, TARLAC</p>	
<p>SHEET CONTENTS:</p> <p>LOWER GROUND FLOOR LIGHTING SYSTEM LAYOUT</p>			<p>SHEET NO.</p> <p>EE-05</p>





1  
SCALE: 1:200

## LOWER GROUND FLOOR POWER SYSTEM LAYOUT

EE-06

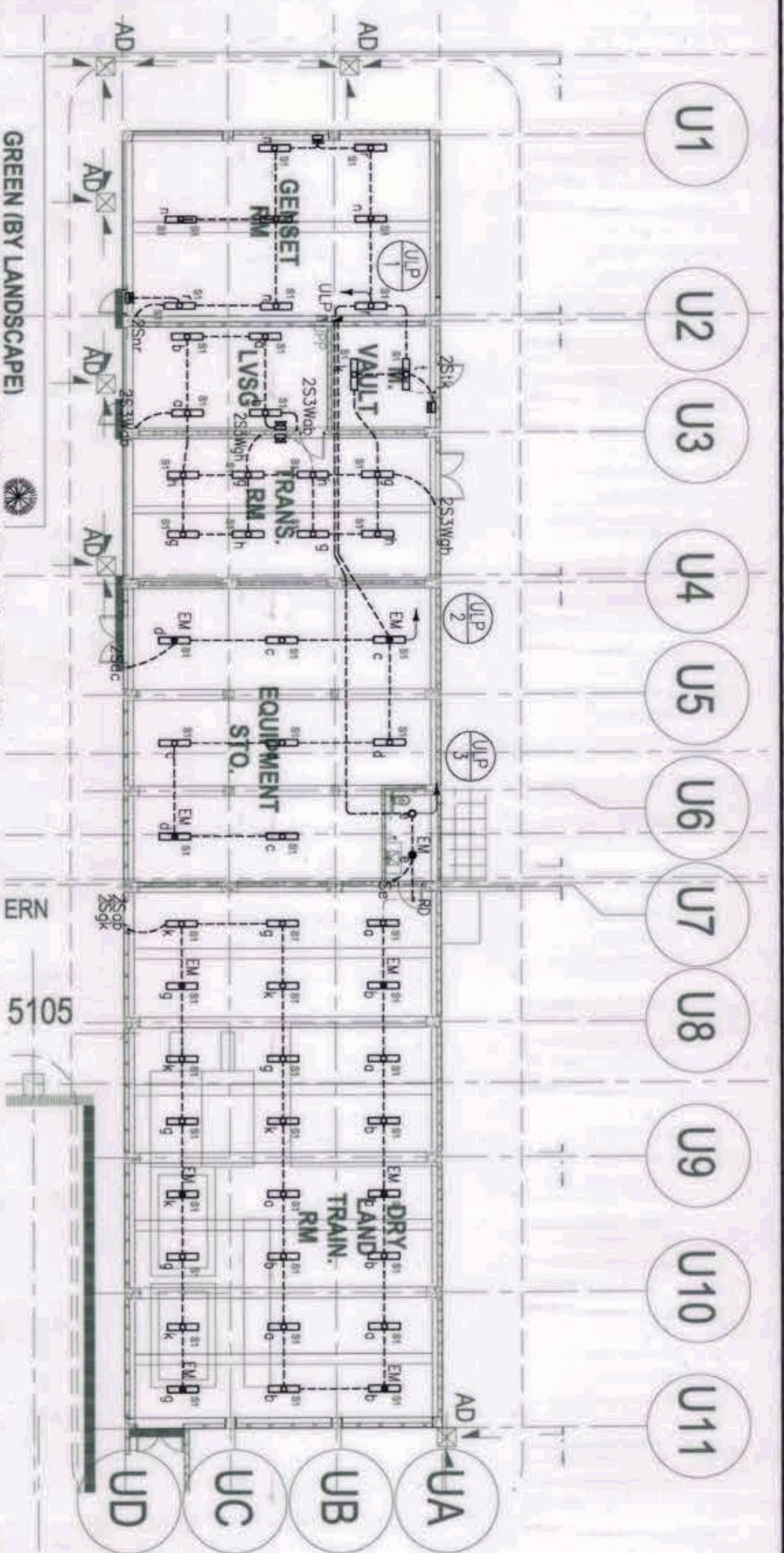
**GRAPHIC SCALE:**

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SCALE 1:200

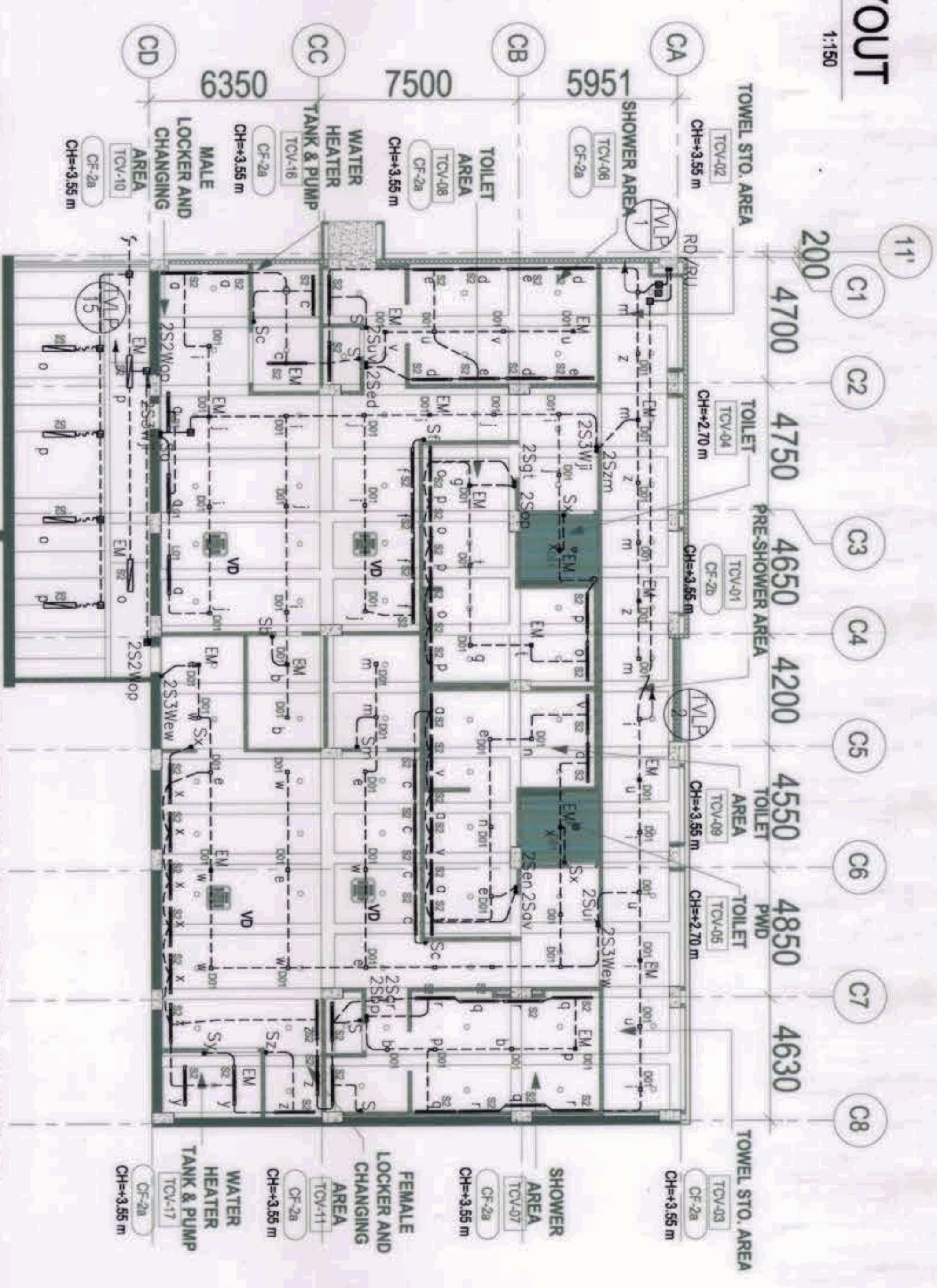
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NOTE:  
 Pursuant to Section 4 of Annex "A" of the Revised Implementing Rules and Regulations of R.A. 9164, approval of detailed engineering survey and design undertaken by Design Consultants shall be subject to the approval of the Department of Public Works and Highways. The Design Consultant shall be held liable for the validity of the implementation of the design. This drawing is intended for the construction of the project and shall be used in accordance with the design notes and specifications. No liability is assumed for the original notes without the authority of the Design Consultant.

<p>OWNER: NGAC PHASE 1 JV COMPANY</p> <p><b>BCDA</b> VICENTE J. DEON PRESIDENT</p> <p>AND</p> <p><b>MID-Century</b> PATRICK NICHOLAS J. DAVO PRESIDENT</p>	<p>PREPARED BY:</p> <p><b>Hilmar's Construction Corporation</b> 1880 E. Rodriguez St., Antena, Cebu, Quezon City JESUS V. HERBAS PROJECT MANAGER</p>	<p>REVIEWED AND VALIDATED BY:</p> <p><b>FILIPINAS DRAVO CORPORATION</b> Filipinas Dravo &amp; Engineering Corporation P.O. Box 100, Cebu City, Cebu, Philippines ALFREDO T. BENVENIA PROJECT MANAGER</p>	<p>SUBMITTED BY:</p> <p><b>BANDAR HEBAT BUILDERS, INC.</b> ISAAC S. DAVO PRESIDENT</p>
<p>CERTIFIED BY: INDEPENDENT CONSULTANT</p> <p><b>TCGI ENGINEERS</b> VICENTE A. MORRADO PRESIDENT</p>		<p>PROJECT TITLE:</p> <p><b>AS-BUILT DRAWING</b> NGAC PHASE 1A <b>AQUATIC CENTER</b> NEW CLARK CITY, CAPAS, TARLAC</p>	
<p>SHEET CONTENTS:</p> <p>LOWER GROUND FLOOR POWER SYSTEM LAYOUT</p>			<p>SHEET NO.</p> <p><b>EE-06</b></p>



**1**  
POWER HOUSE LIGHTING SYSTEM LAYOUT  
SCALE: 1:150  
EE-07



**2**  
TRAINING CHANGING VILLAGE LIGHTING SYSTEM LAYOUT  
SCALE: 1:150  
EE-07

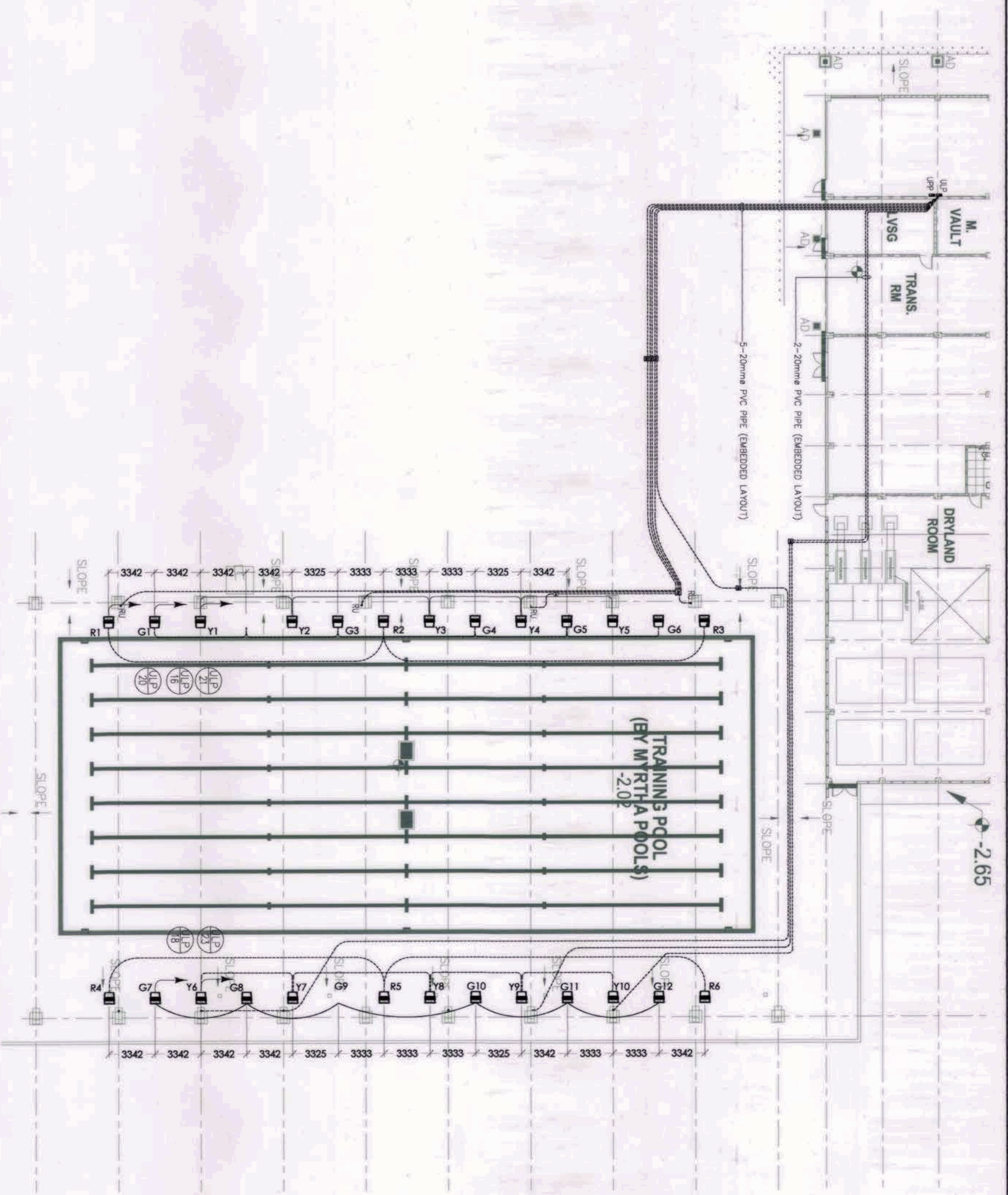
Note:  
Pursuant to Section 4 of Annex 'A' of the Revised Implementing Rules and Regulations of P.A. 874, approval of detailed engineering drawings and design undertaken by Design Consultants neither discharges the responsibility of the holder for the technical integrity of the drawings and designs nor transfers any part of that responsibility to the approving authority. The Design Consultant shall be held fully responsible for the status of the submitted drawings due to timely design except for the changes made without the consent of the Design Consultant.

GRAPHIC SCALE:



OWNER: NGAC PHASE 1 JV COMPANY  
PREPARED BY:  
REVIEWED AND VALIDATED BY:  
SUBMITTED BY:  
CERTIFIED BY: INDEPENDENT CONSULTANT  
PROJECT TITLE:  
SHEET NO.

  	 1835 E. Rodriguez St., Avenue, Cebu, Quezon City PROJECT MANAGER 	 Architectural & Engineering Consultants 1101 E. Rodriguez St., 3rd Floor, Cebu, Quezon City PROJECT MANAGER 	 ISMAC & DAVID PRESIDENT	 808 7th Floor, Bldg. 108, V.A. Subic Bay, Subic Bay, Zambales PRESIDENT/CEO 	AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPAS, TARLAC	POWER HOUSE AND TRAINING CHANGING VILLAGE LIGHTING SYSTEM LAYOUT EE-07
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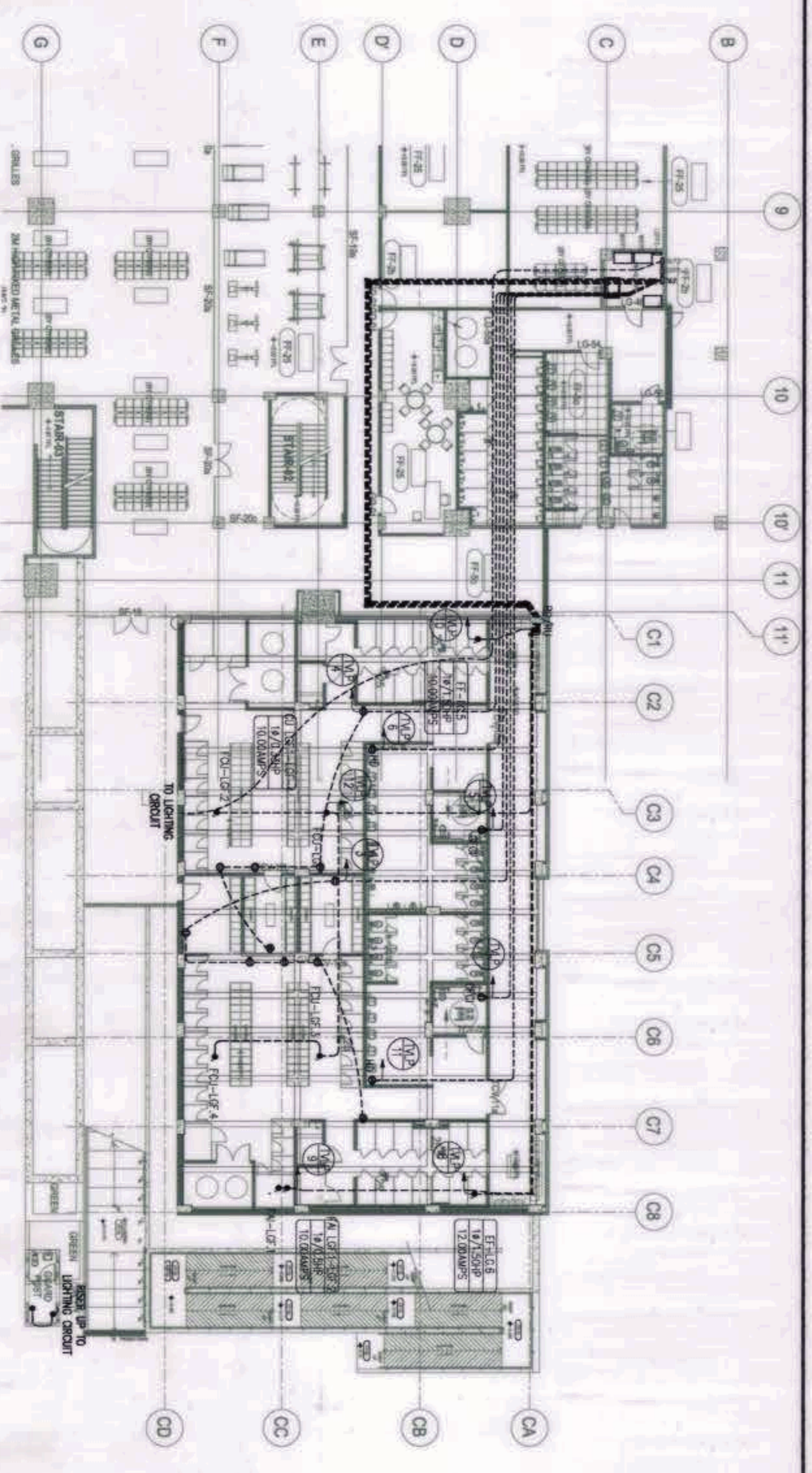
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EE-07A  
SCALE:

LOWER GROUND FLOOR TRAINING POOL LIGHTING SYSTEM LAYOUT  
1:150

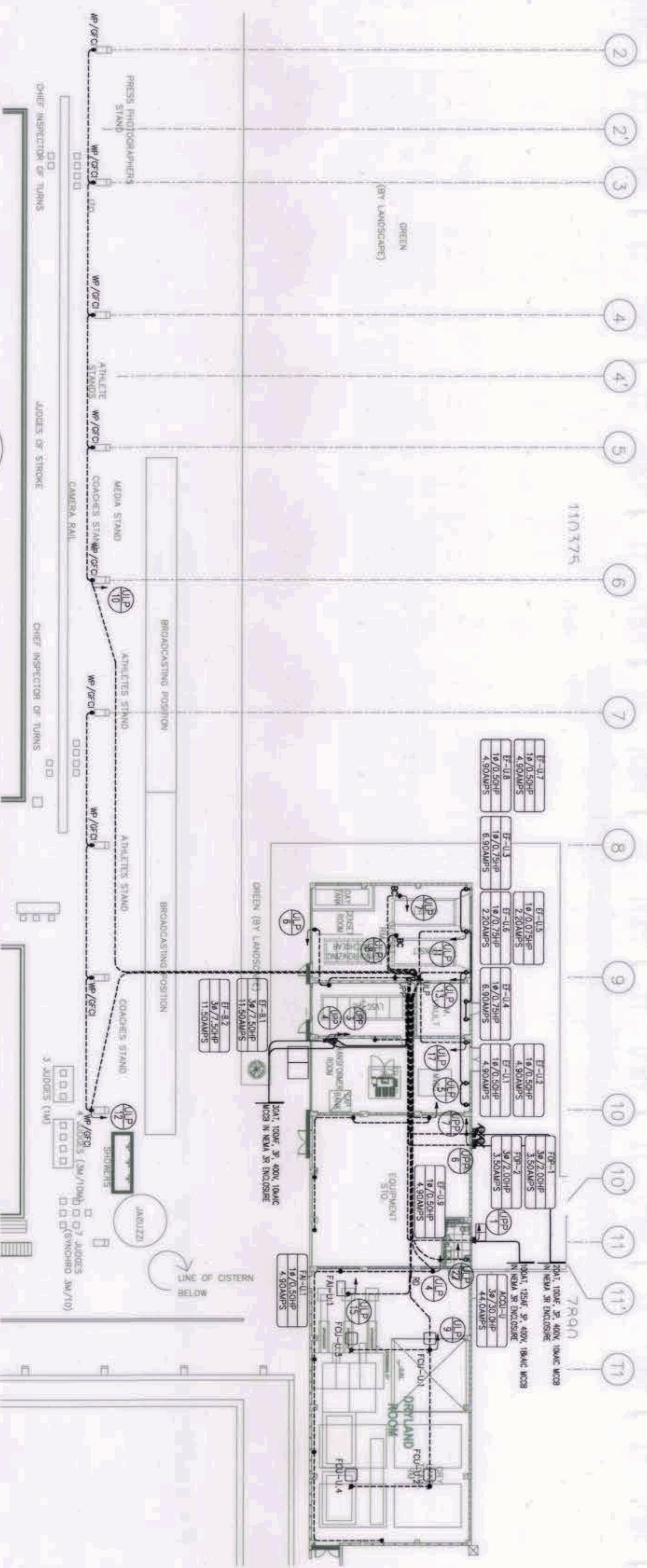
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SCALE 1:150

Note:  
Presented to the Board of Directors of the Client, the undersigned, as a representative of the undersigned, has prepared the design and drawings of the lighting system for the project. The undersigned is not responsible for the accuracy of the information provided by the Client. The undersigned is not responsible for the accuracy of the information provided by the Client. The undersigned is not responsible for the accuracy of the information provided by the Client.

OWNER: NGAC PHASE 1 JV COMPANY	PREPARED BY:	REVIEWED AND VALIDATED BY:	SUBMITTED BY:	PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.:
  	 Hilmar's Construction Corporation 1835 E. Rodriguez St., Avenue Clark, Quezon City JESUS V. VERBAS PROJECT MANAGER	 Filipinas Dravo Corporation Architectural & Engineering Consultants Alfredo R. Melilla	 Bandar Herat Builders, Inc. Isaac S. David PRESIDENT	AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPAS, TARLAC	TRAINING POOL LIGHTING SYSTEM LAYOUT	EE-07A



**LOWER GROUND FLOOR  
TRAINING CHANGING VILLAGE  
POWER/FCU SYSTEM LAYOUT**  
SCALE: 1:200  
EE-08



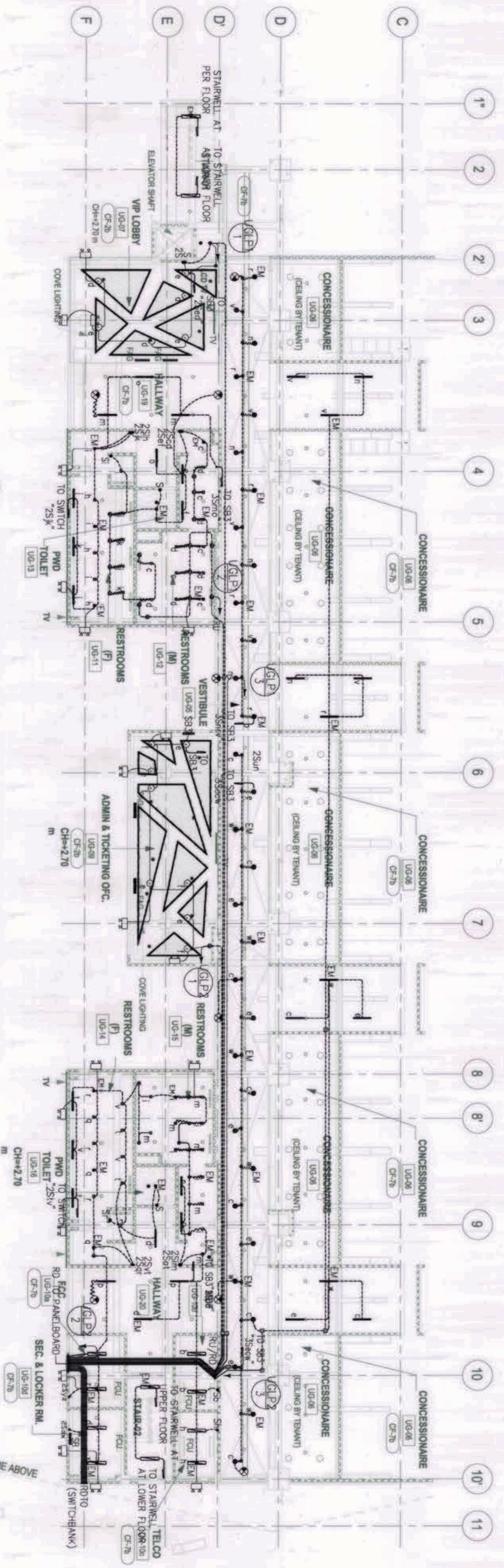
**LOWER GROUND FLOOR POWER HOUSE - POWER SYSTEM LAYOUT**  
SCALE: 1:200  
EE-08



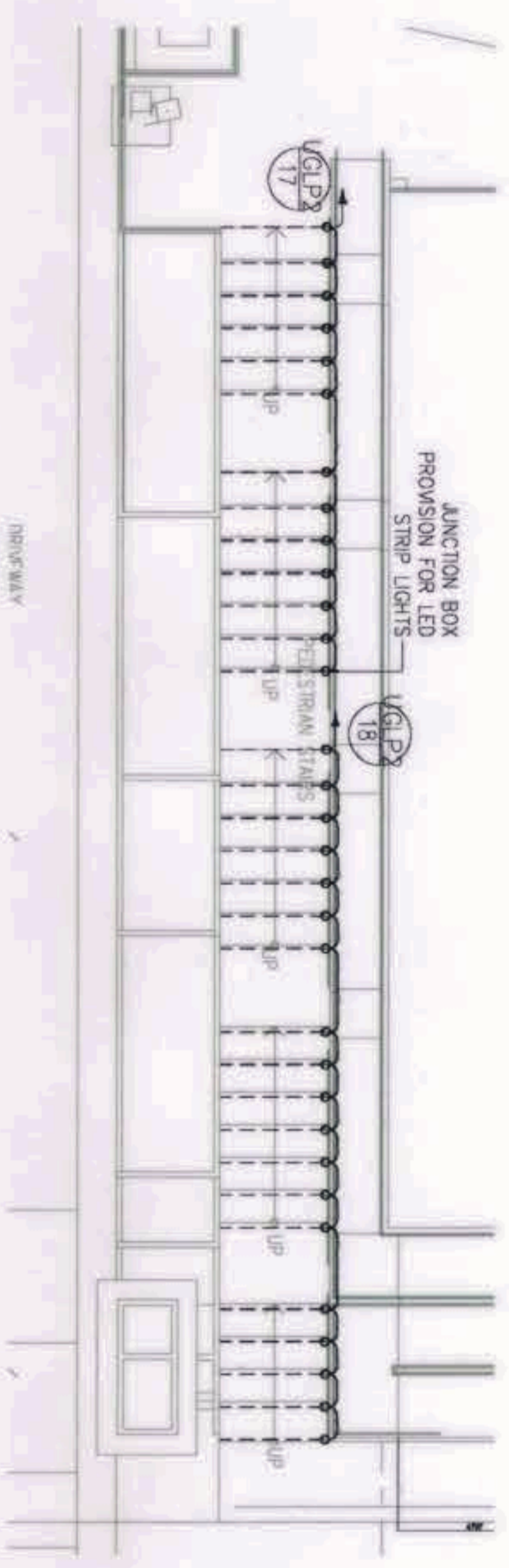
GRAPHIC SCALE:

Note:  
Pursuant to Section 4 of Annex 'A' of the Revised Implementing Rules and Regulations of RA 9164, Licensee of Electrical Engineering Survey and Design, undertaken by Design Firm, shall be responsible for the design and construction of the power system. The Designer/Consultant shall be held fully responsible for the failure of the infrastructure due to faulty design except for the changes made without the consent of the Design Consultant.

OWNER: NGAC PHASE 1 JV COMPANY	PREPARED BY: Hilmarc's Construction Corporation 1885 E. Rodriguez St., Avenue, Cebu, Quezon City PROJECT MANAGER JESUS V. HERBAS	REVIEWED AND VALIDATED BY: Filipinas Dravo Corporation Architectural & Engineering Consultants 1201 P. O. Box 1201, P. O. District 12, Makati City, Metro Manila PROJECT MANAGER MARICOR-VELILLA	SUBMITTED BY: BANDAR HEBAT BUILDERS, INC. ISMAEL S. DAVID	PROJECT TITLE: AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPAS, TARLAC	SHEET NO. EE-08
BCDA BUREAU OF CALIBRATED DISTRICT ADMINISTRATORS	AND MTC Clark, Inc. PHILIPPO MICHAEL T. RAMON PRESIDENT	FTI Architectural & Engineering Consultants 1201 P. O. Box 1201, P. O. District 12, Makati City, Metro Manila PROJECT MANAGER MARICOR-VELILLA	TCGI ENGINEERS 1001 P. O. Box 1001, P. O. District 10, Marikina City, Metro Manila PRESIDENT/CEO VIRLINDA MADRADO		



1 UPPER GROUND FLOOR LIGHTING SYSTEM LAYOUT  
SCALE: 1:150












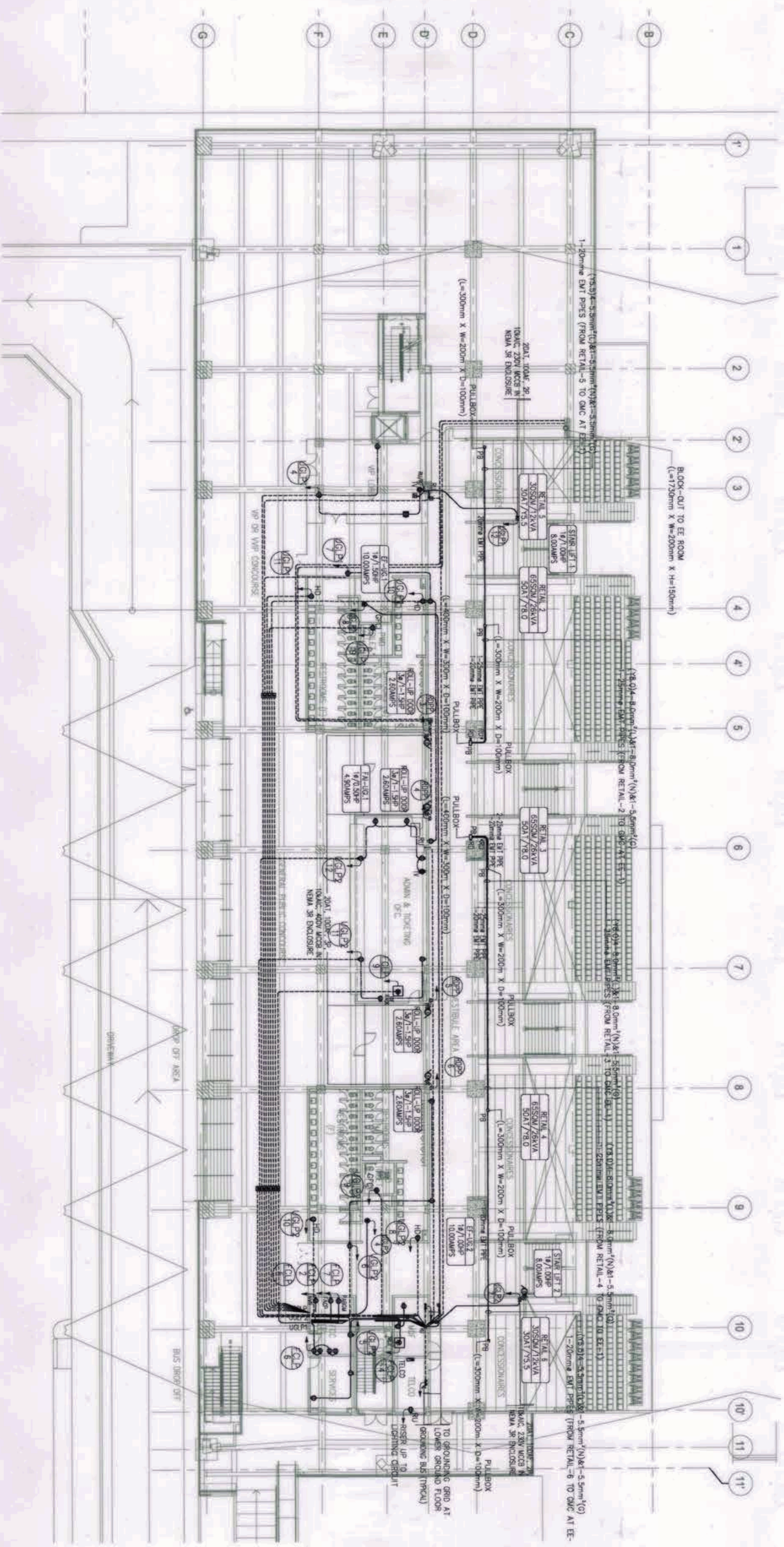
2 UPPER GROUND FLOOR-ENLARGED PEDESTRIAN STAIRS LIGHTING SYSTEM LAYOUT  
SCALE: 1:150

Note:  
Pursuant to Section 4 of Annex 'A' of the Revised Implementing Rules and Regulations of RA 9209, approval of detailed engineering survey and design, construction by Design Consultant, and construction supervision by Design Consultant shall be provided for the duration of the construction period. The Design Consultant shall be held liable for the design and construction of the building design, except for the design errors without the consent of the Design Consultant.

GRAPHIC SCALE:



OWNER: NGAC PHASE 1 JV COMPANY	PREPARED BY:  Hilmarc's Construction Corporation 188 E. Rodriguez St., Annex, Cebu Queen City JESSE V. HERRERA PROJECT MANAGER	REVIEWED AND VALIDATED BY:  FILIPPINAS DRAVVO CORPORATION Architectural & Engineering Consultants 1111 E. Rodriguez St., Annex, Cebu Queen City ALBERTO R. REYLLA	SUBMITTED BY:  BANDAR HEBAT BUILDERS, INC. ISMAEL S. DAVID	PROJECT TITLE: AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPAS, TARLAC	SHEET NO. EE-09
 BCD&A VICENTE B. PICON PRESIDENT	 AND  HILMARC'S CONSTRUCTION CORPORATION PRESIDENT	 ARCHITECTURAL & ENGINEERING CONSULTANTS ALBERTO R. REYLLA	 ISMAEL S. DAVID	 TGI ENGINEERS VICENTINA MADRADO PROJECT MANAGER	



1 UPPER GROUND FLOOR-POWER SYSTEM LAYOUT  
SCALE: 1:200

**GRAPHIC SCALE:**

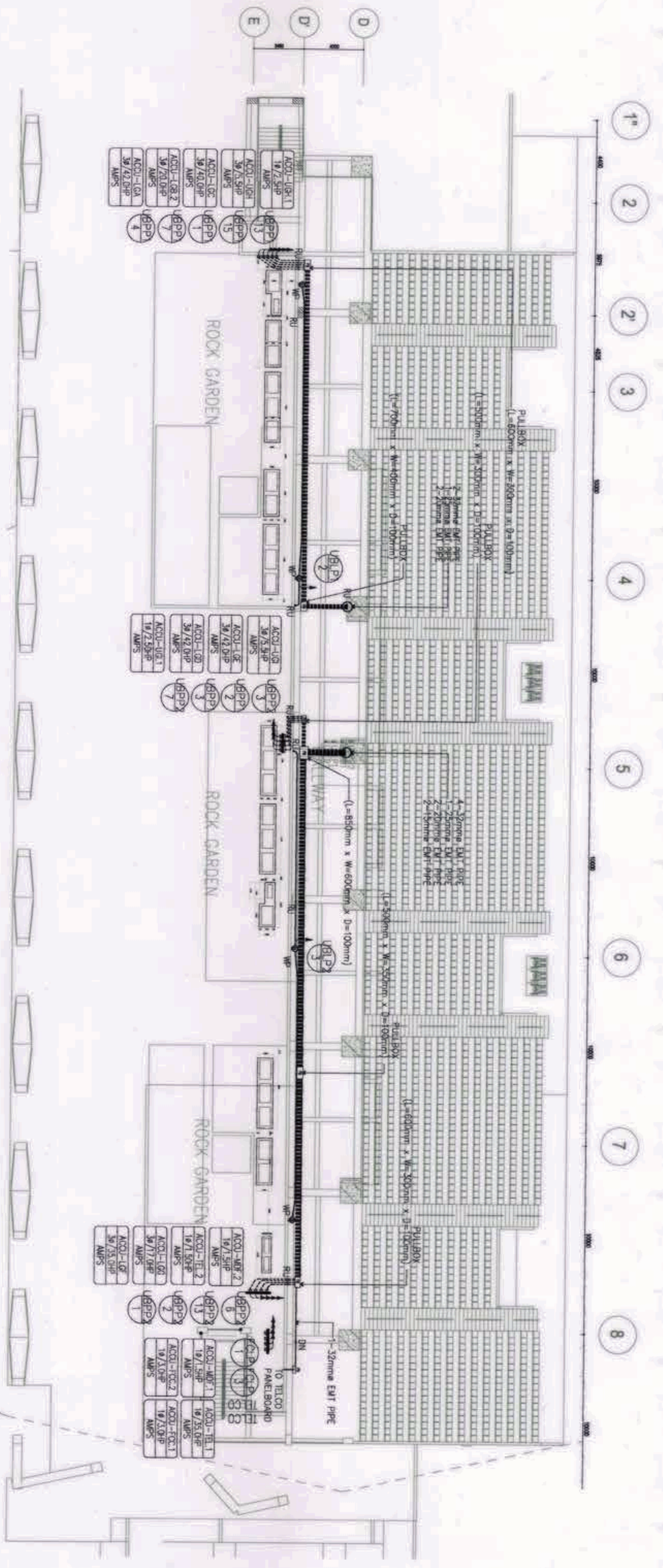
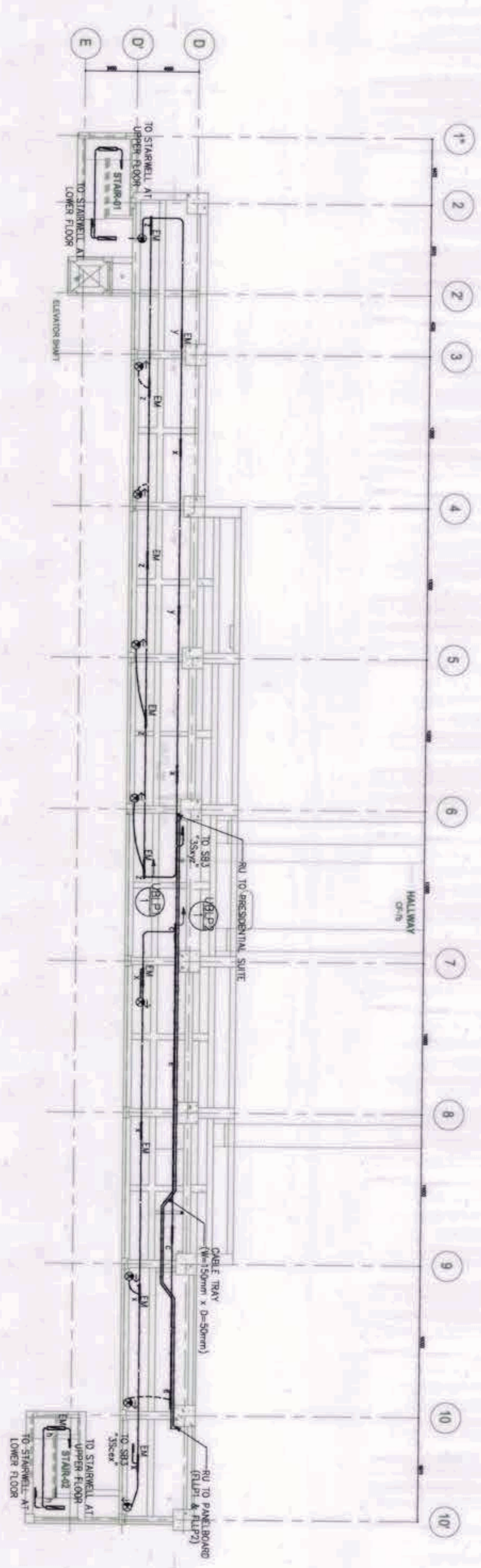
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**GRAPHIC SCALE:**

N

Note:  
 Pursuant to Section 4 of Annex 'A' of the Revised Engineering Rules and Regulations of P.A. 9164, approval of detailed engineering drawings and design undertaken by a Designer/Consultant shall be the responsibility of the Designer/Consultant. The Designer/Consultant shall be held liable for any part of the responsibility of the Designer/Consultant. The Designer/Consultant shall be held liable for any part of the responsibility of the Designer/Consultant. The Designer/Consultant shall be held liable for any part of the responsibility of the Designer/Consultant.

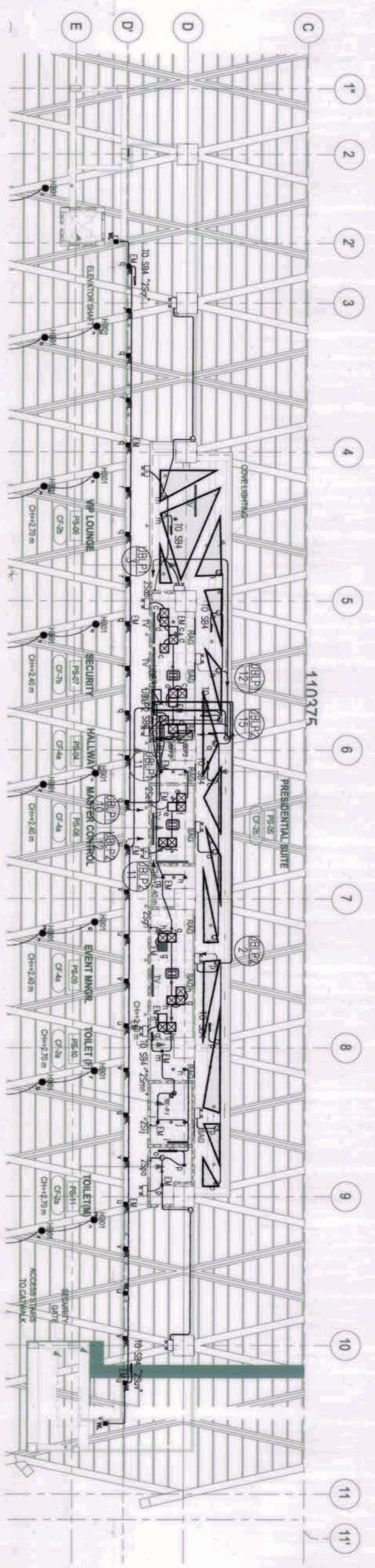
OWNER: NSGC PHASE 1 JV COMPANY	PREPARED BY:  Hilmar's Construction Corporation 1635 E. Rodriguez St., Aurora, Cebu, Davao City JESUS V. HERBAS PROJECT MANAGER	REVIEWED AND VALIDATED BY:  FILIPPINA DRAVO CORPORATION Architectural & Engineering Corporation 1000 Soledad St., Cebu City, Davao City ALBERTO P. REYLA PROJECT MANAGER	SUBMITTED BY:  BANDAR HEBAT BUILDERS, INC. ISAAC S. DAWD PRESIDENT	CERTIFIED BY: INDEPENDENT CONSULTANT  TCGI ENGINEERS VIRGILIO A. MADRIDA PRESIDENT	PROJECT TITLE: AS-BUILT DRAWING NSGC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPPAS, TAVEL	SHEET CONTENTS: UPPER GROUND FLOOR POWER SYSTEM LAYOUT	SHEET NO.: EE-10
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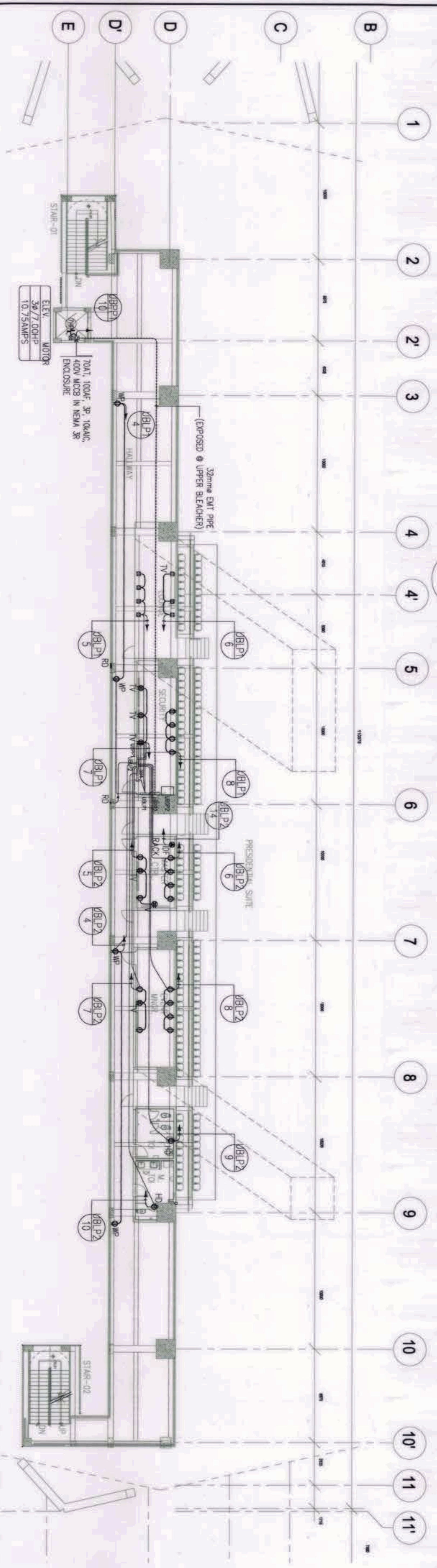
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Note:  
 Pursuant to Section 14 of Annex 'A' of the Standard Implementing Rules and Regulations of RA 9164, approved or qualified engineering services and design, undertaken by Design Consultants, neither divides the responsibility of the labor, nor the technical integrity of the services and designs nor transfer any part of that responsibility to the approving officials. The Design Consultant shall be held liable responsible for the failure of the business/contract due to faulty design except for the changes made without the consent of the Design Consultant.

OWNER: NGAC PHASE 1 JV COMPANY	PREPARED BY:	REVIEWED AND VALIDATED BY:	SUBMITTED BY:	CERTIFIED BY: INDEPENDENT CONSULTANT	PROJECT TITLE:	SHEET NO.
 <b>BODA</b> BUREAU OF DESIGN AND ARCHITECTURE WASHINGTON & GORDON PRESIDENT	 <b>Hilmarc's Construction Corporation</b> 1028 E. Rodriguez St., Avenue, Cebu, Cebu City JESSUS V. HERBAS PROJECT MANAGER	 <b>FILIPINAS DRAVO CORPORATION</b> Architectural & Engineering Consultants 1111 E. Rodriguez St., 11th Floor, Cebu City ALBERTO R. TULLA PROJECT MANAGER	 <b>BANDAR HEBAT BUILDERS, INC.</b> Isaac S. David PRESIDENT	 <b>TCGI ENGINEERS</b> Miguel A. Mendoza RESIDENT/CEO	<b>AS-BUILT DRAWING</b> NGAC PHASE 1A <b>AQUATIC CENTER</b> NEW CLARK CITY, CAPPAS, TARLAC	<b>EE-11</b>



1 PRESIDENTIAL SUITE LIGHTING/LIGHTING WALL SYSTEM LAYOUT  
 EE-12 SCALE: 1:150



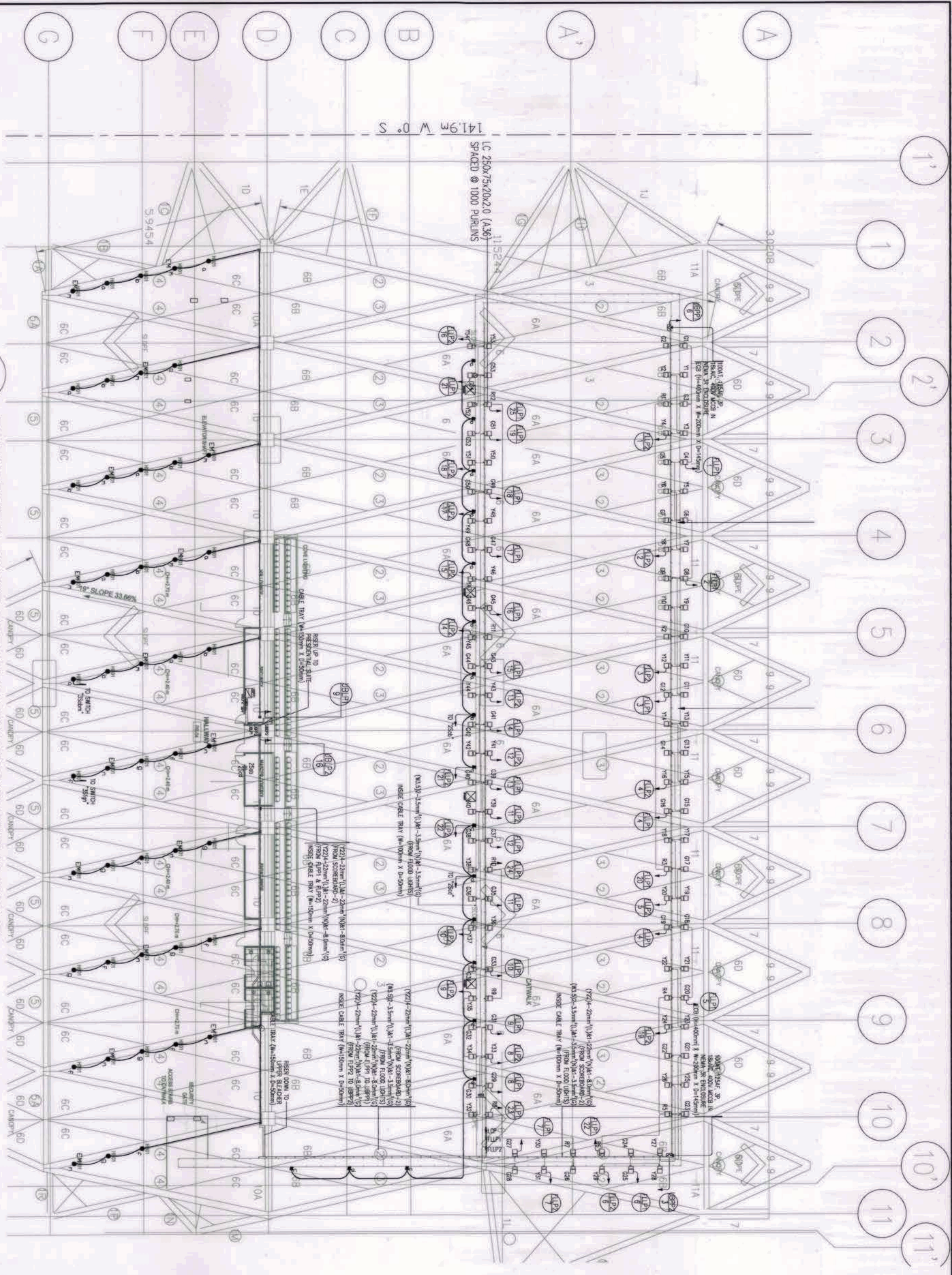
2 PRESIDENTIAL SUITE POWER SYSTEM LAYOUT  
 EE-12 SCALE: 1:200

**GRAPHIC SCALE:**  
 4000  
 1:200  
 N

Note:  
 Pursuant to Section 4 of Annex 'A' of the Revised Implementing Rules and Regulations of P.A. 8754, approval of detailed engineering survey and design documents by Design Consultants neither divides nor transfers the responsibility of the holder for the technical integrity of the surveys and designs nor transfers any part of that responsibility to the approving officials. The Design Consultant shall be held fully responsible for the validity of the submitted documents and for being design except for the changes made without the consent of the Design Consultant.

OWNER: NSAC PHASE I JV COMPANY	PREPARED BY: <b>BCDA</b> <b>AND</b> <b>APD GROUP INC.</b> <b>AND</b> <b>ARCHITECTURAL ENGINEERS</b>	REVIEWED AND VALIDATED BY: <b>ARCHITECTURAL ENGINEERS</b>	SUBMITTED BY: <b>BANDAR HERBAT BUILDERS, INC.</b>	CERTIFIED BY: INDEPENDENT CONSULTANT: <b>TCCI ENGINEERS</b>	PROJECT TITLE: <b>AS-BUILT DRAWING</b> NSAC PHASE 1A <b>AQUATIC CENTER</b> NEW CLARK CITY, CAGPA, TAYLAC	SHEET CONTENTS: <b>PRESIDENTIAL SUITE-LIGHTING AND LIGHTING WALL/POWER SYSTEM LAYOUT</b>	SHEET NO: <b>EE-12</b>
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1  
PRESIDENTIAL SUITE-CATWALK LIGHTING SYSTEM LAYOUT  
SCALE: 1:200  
EE-12A

SWITCHING SEQUENCE OF LIGHTING IN COMPETITION POOL

SWITCHING SEQUENCE #	ON	OFF
1	S/S/S	—
2	S/S	S
3	S	S/S

SWITCHING SEQUENCE # 1.

G1-G25 = 25x240 W  
 G26-G54 = 29x480 W  
 Y1-Y29 = 29x240 W  
 Y30-Y54 = 24x480 W  
 R1-R6 = 6x240 W  
 R7-R12 = 480 W

SWITCHING SEQUENCE # 2.

G1-G25 = 25x240 W  
 G26-G54 = 29x480 W  
 Y1-Y29 = 29x240 W  
 Y30-Y54 = 24x480 W

SWITCHING SEQUENCE # 3.

R1-R6 = 6x240 W  
 R7-R12 = 6x480 W

GRAPHIC SCALE:  
 4000  
 1:200  
 N

Note:  
 Pursuant to Section 14 of Annex 'A' of the National Engineering, Building and Regulations of P.A. 5194, approved of detailed engineering surveys and design undertaken by Design Consultants neither discharges the responsibility of the author nor the structural integrity of the surveys and designs nor transfer any part of that responsibility to the approving authority. The Design Consultant shall be held liable responsible for the balance of the activities undertaken to fully design except for the changes made without the consent of the Design Consultant.

OWNER: NGAC PHASE 1 JV COMPANY

PREPARED BY: **BECA** AND **AMP**  
 VINCENZO B. OZON AND PATRICK NICOLAS P. DAVID

REVIEWED AND VALIDATED BY: **Hilmar's Construction Corporation**  
 1335 E. Rodriguez St., Avenue, Cebu, Quezon City  
 ERASMO V. HERBAS PROJECT MANAGER

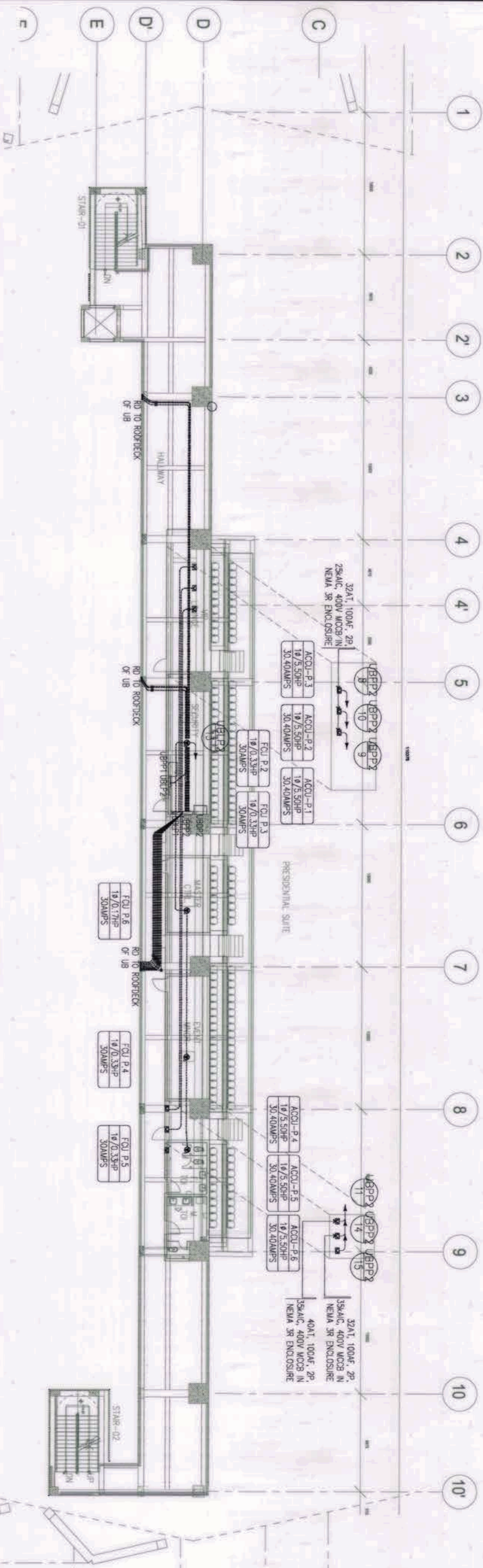
REVIEWED AND VALIDATED BY: **FDP**  
 Architecture & Engineering Consultants  
 1000 S. O. RIVERA ST., SUITE 101, CEBU CITY  
 ALBERTO R. BENILLA PROJECT MANAGER

SUBMITTED BY: **BANDAR HERBAT BUILDERS, INC.**  
 ISMAC S. DAVID PRESIDENT

CERTIFIED BY: INDEPENDENT CONSULTANT  
**TCGI ENGINEERS**  
 1000 S. O. RIVERA ST., SUITE 101, CEBU CITY  
 VIRGILIO A. MADRADO PRESIDENT/CEO

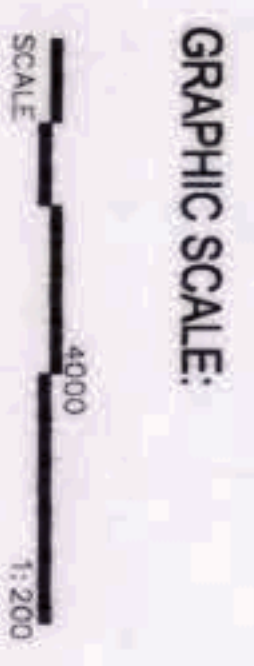
PROJECT TITLE: AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CAROL CITY, CAVAS, TAVRAC

SHEET NO.: EE-12A



1 PRESIDENTIAL SUITE-ROOFDECK POWER SYSTEM LAYOUT  
 EE-12B SCALE: 1:200

Note:  
 Pursuant to Section 4 of Article 'X' of the Standard Implementing Rules and Regulations of P.A. 9164, approval of detailed engineering survey and design undertaken by a duly Licensed Professional Engineer shall be a condition for the issuance of a Certificate of Approval. The Engineer shall be held fully responsible for the validity of the engineering design and design details. The design engineer shall be held fully responsible for the validity of the engineering design and design details. The design engineer shall be held fully responsible for the validity of the engineering design and design details.

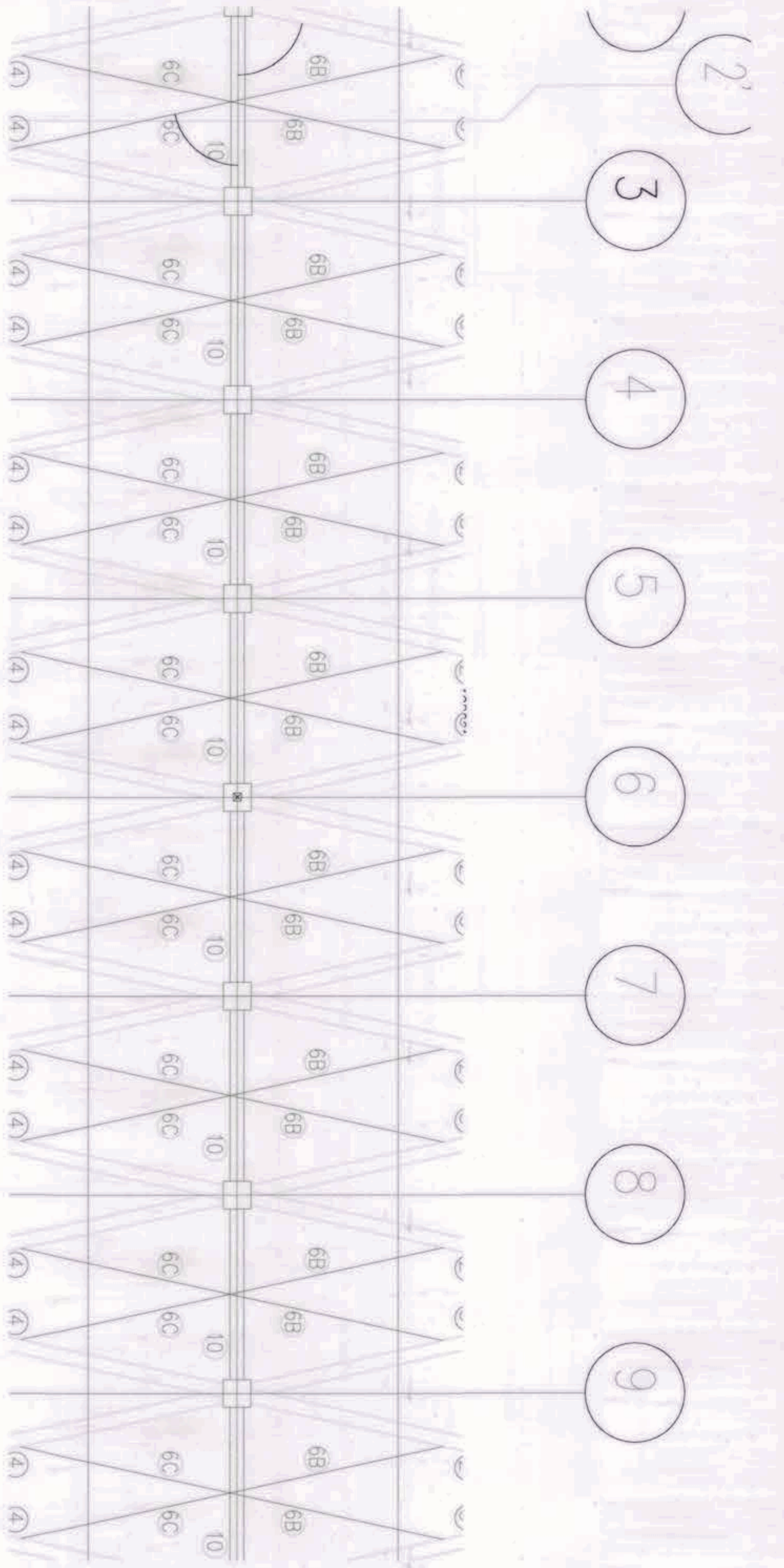


OWNER: NGAC PHASE 1A COMPANY	PREPARED BY:	REVIEWED AND VALIDATED BY:	SUBMITTED BY:	CERTIFIED BY: INDEPENDENT CONSULTANT	PROJECT TITLE:	SHEET NO.:
 <b>BCDA</b> VIVENCIO BACON PRESIDENT  <b>MPC</b> PATRICK NICHOLAS P. DAVID PRESIDENT	 <b>Hilmar's Construction Corporation</b> 1885 E. Rodriguez St., Aurora, Ocala, Davao City ASSISTANT MANAGER	 <b>FILIPINAS DRAVO CORPORATION</b> Architectural & Engineering Consultants 117720, 117721, 117722, 117723, 117724, 117725, 117726, 117727, 117728, 117729, 117730, 117731, 117732, 117733, 117734, 117735, 117736, 117737, 117738, 117739, 117740, 117741, 117742, 117743, 117744, 117745, 117746, 117747, 117748, 117749, 117750, 117751, 117752, 117753, 117754, 117755, 117756, 117757, 117758, 117759, 117760, 117761, 117762, 117763, 117764, 117765, 117766, 117767, 117768, 117769, 117770, 117771, 117772, 117773, 117774, 117775, 117776, 117777, 117778, 117779, 117780, 117781, 117782, 117783, 117784, 117785, 117786, 117787, 117788, 117789, 117790, 117791, 117792, 117793, 117794, 117795, 117796, 117797, 117798, 117799, 117800, 117801, 117802, 117803, 117804, 117805, 117806, 117807, 117808, 117809, 117810, 117811, 117812, 117813, 117814, 117815, 117816, 117817, 117818, 117819, 117820, 117821, 117822, 117823, 117824, 117825, 117826, 117827, 117828, 117829, 117830, 117831, 117832, 117833, 117834, 117835, 117836, 117837, 117838, 117839, 117840, 117841, 117842, 117843, 117844, 117845, 117846, 117847, 117848, 117849, 117850, 117851, 117852, 117853, 117854, 117855, 117856, 117857, 117858, 117859, 117860, 117861, 117862, 117863, 117864, 117865, 117866, 117867, 117868, 117869, 117870, 117871, 117872, 117873, 117874, 117875, 117876, 117877, 117878, 117879, 117880, 117881, 117882, 117883, 117884, 117885, 117886, 117887, 117888, 117889, 117890, 117891, 117892, 117893, 117894, 117895, 117896, 117897, 117898, 117899, 117900, 117901, 117902, 117903, 117904, 117905, 117906, 117907, 117908, 117909, 117910, 117911, 117912, 117913, 117914, 117915, 117916, 117917, 117918, 117919, 117920, 117921, 117922, 117923, 117924, 117925, 117926, 117927, 117928, 117929, 117930, 117931, 117932, 117933, 117934, 117935, 117936, 117937, 117938, 117939, 117940, 117941, 117942, 117943, 117944, 117945, 117946, 117947, 117948, 117949, 117950, 117951, 117952, 117953, 117954, 117955, 117956, 117957, 117958, 117959, 117960, 117961, 117962, 117963, 117964, 117965, 117966, 117967, 117968, 117969, 117970, 117971, 117972, 117973, 117974, 117975, 117976, 117977, 117978, 117979, 117980, 117981, 117982, 117983, 117984, 117985, 117986, 117987, 117988, 117989, 117990, 117991, 117992, 117993, 117994, 117995, 117996, 117997, 117998, 117999, 118000 ALFREDO R. BRULLA PROJECT MANAGER	 <b>BANDAR HEBAT BUILDERS, INC.</b> ISMAEL S. DAVID PRESIDENT	 <b>TCGI ENGINEERS</b> VIRBOLDO A. MADRADO PRESIDENT/CEO	<b>AS-BUILT DRAWING</b> NGAC PHASE 1A <b>AQUATIC CENTER</b> NEW CLARK CITY, CAGPAI, TARLAC	EE-12B

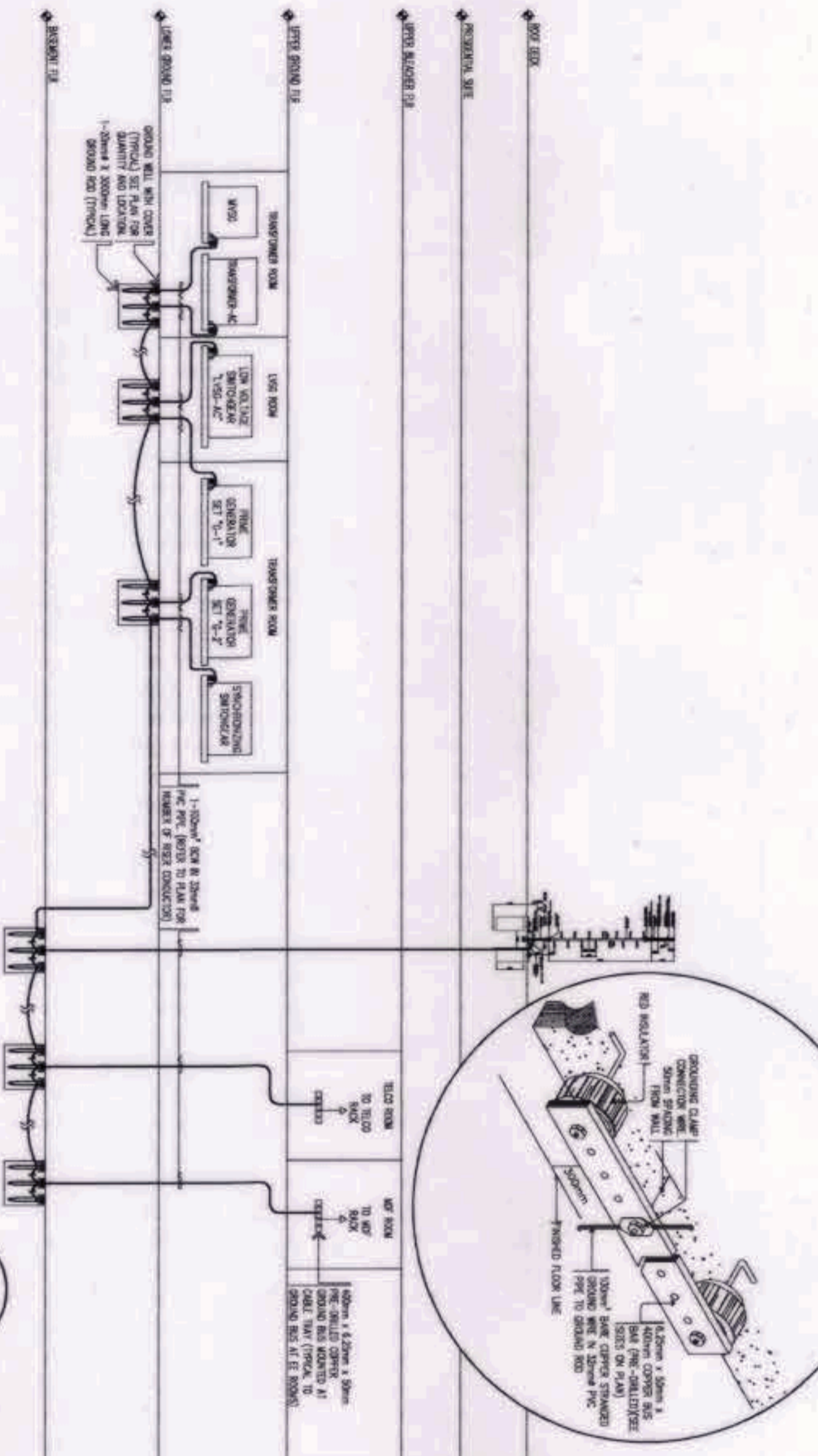






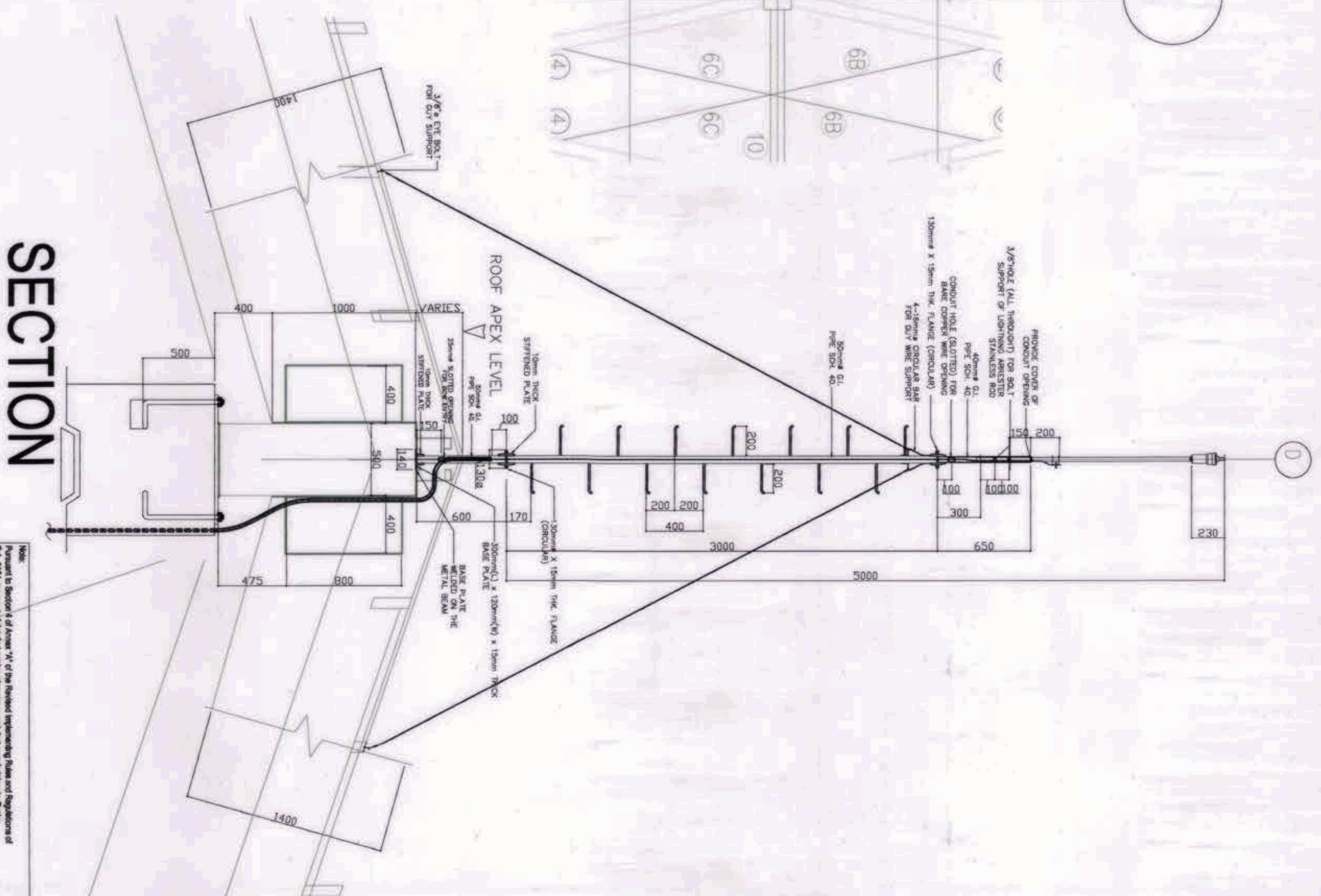


1 ROOF PLAN LIGHTNING ARRESTER SYSTEM LAYOUT  
SCALE: 1:150



2 GROUNDING SYSTEM LAYOUT  
SCALE: NTS

- NOTES:
1. ALL METALLIC CONDUIT CABLE TRAYS, METALLIC MEMBRANE WERE PROPERLY GROUNDING AND BONDED.
  2. GROUNDING BUSBAR WERE OF COPPER MATERIAL WITH TN COATING, COMPLETE WITH INSULATING COVER AND 3/4" VENTING CLASPS.
  3. ALL IT EQUIPMENT AND EQUIPMENT RACKS FOR SERVERS, UPS, APC, ETC WERE PROPERLY GROUNDING.
  4. ALL HOLES IN GROUNDING BUSBARS WERE PREPARED FITTED TO TWO HOLE CHAMFER TYPE UL LISTED TERMINAL LUGS, PROVIDE EXTRA HOLES.
  5. ALL GROUNDING CONDUCTORS WERE TERMINATED TO GROUNDING BUS USING TWO (2) HOLE LONG BARREL CHAMFER TYPE UL LISTED TERMINAL LUGS.
  6. GROUNDING INSTALLATIONS WERE COMPLIANT TO THE LATEST ELECTRICAL CODE, IAW/NEC-90-A AND OTHER CODES RELATED TO GROUNDING OF ELECTRICAL AND TELECOMMUNICATION SYSTEMS.
  7. CONTRACTOR TO CONDUCT GROUNDING RESISTANCE TEST AND SHAWT TEST RESULT.
  8. MANUAL GROUNDING ASSISTANCE.
  9. LIGHTNING ARRESTER - 10 OHMS
  10. ELECTRICAL - 5 OHMS
  11. EXTRA LOW VOLTAGE - 3 OHMS
  12. PROVIDE ADDITIONAL GROUND RODS TO ATTAIN REQUIRED GROUNDING RESISTANCE.
  13. VERIFY GROUND FLOOR GROUNDING SYSTEM LAYOUT FOR THE QUANTITY AND/OR AT SITE FOR POSSIBLE LOCATION OF GROUND RODS.
  14. SHAWT TEST RESULT FOR REVIEW OF ENGINEER.



SECTION

GRAPHIC SCALE:  
4000 2000 0 4000 10000  
SCALE: 1:150

OWNER: NGAC PHASE 1A COMPANY

PREPARED BY: Hilmar's Construction Corporation  
1885 E. Rodriguez St., Aurora, Oahu, Hawaii 96801  
PROJECT MANAGER: JESUS V. HERBAS

REVIEWED AND VALIDATED BY: FILIPINAS DRAYO CORPORATION  
Architectural & Engineering Consultants  
1001 Kapiolani Blvd., Suite 200, Honolulu, HI 96813  
PROJECT MANAGER: ALFREDO R. RIVILLA

SUBMITTED BY: BANDAR HERBAT BUILDERS, INC.  
1001 Kapiolani Blvd., Suite 200, Honolulu, HI 96813  
PRESIDENT: ISAAC S. DAVID

CERTIFIED BY: INDEPENDENT CONSULTANT: TCGI ENGINEERS  
200 W. Kalia Road, 10th Floor, Honolulu, HI 96813  
PRESIDENT: VIRGILIO A. MADRERA

PROJECT TITLE: AS-BUILT DRAWING  
NGAC PHASE 1A  
AQUATIC CENTER  
NEW CAARK CITY, CAPAS, TARLAC

SHEET CONTENTS: ROOF PLAN LIGHTNING ARRESTER SYSTEM LAYOUT

SHEET NO.: EE-16

BCDA  
AND  
Patrick Nicholas P. David  
PRESIDENT

Hilmar's Construction Corporation  
1885 E. Rodriguez St., Aurora, Oahu, Hawaii 96801  
PROJECT MANAGER: JESUS V. HERBAS

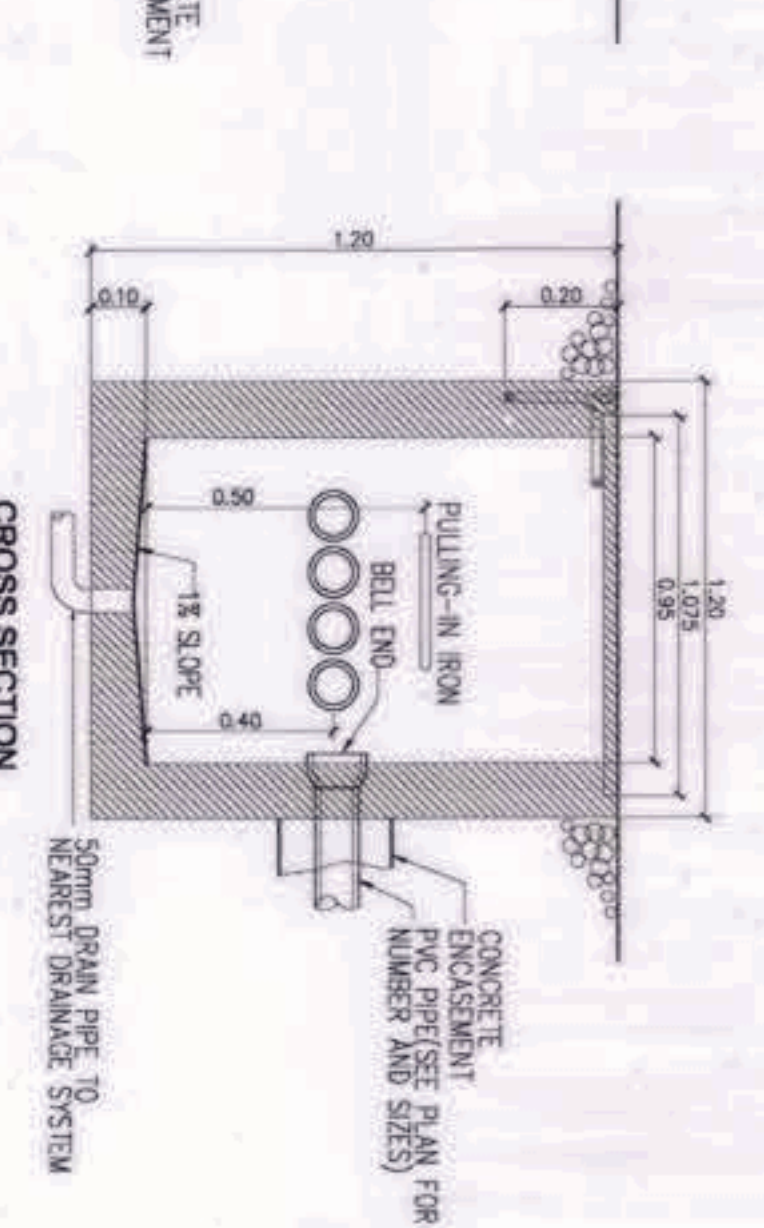
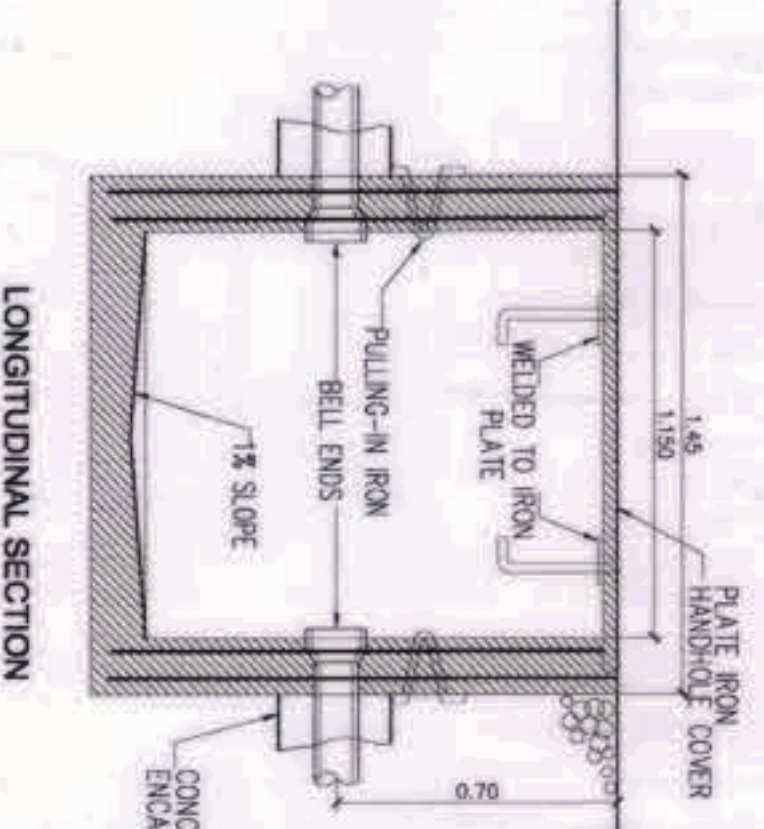
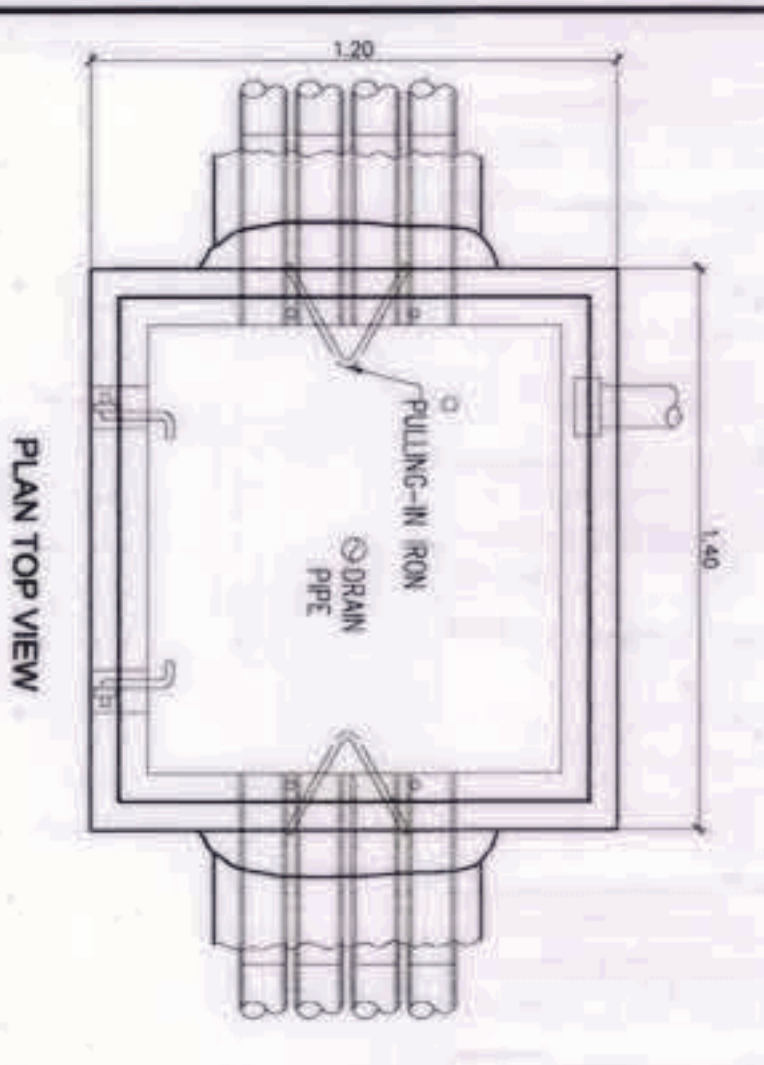
FILIPINAS DRAYO CORPORATION  
Architectural & Engineering Consultants  
1001 Kapiolani Blvd., Suite 200, Honolulu, HI 96813  
PROJECT MANAGER: ALFREDO R. RIVILLA

BANDAR HERBAT BUILDERS, INC.  
1001 Kapiolani Blvd., Suite 200, Honolulu, HI 96813  
PRESIDENT: ISAAC S. DAVID

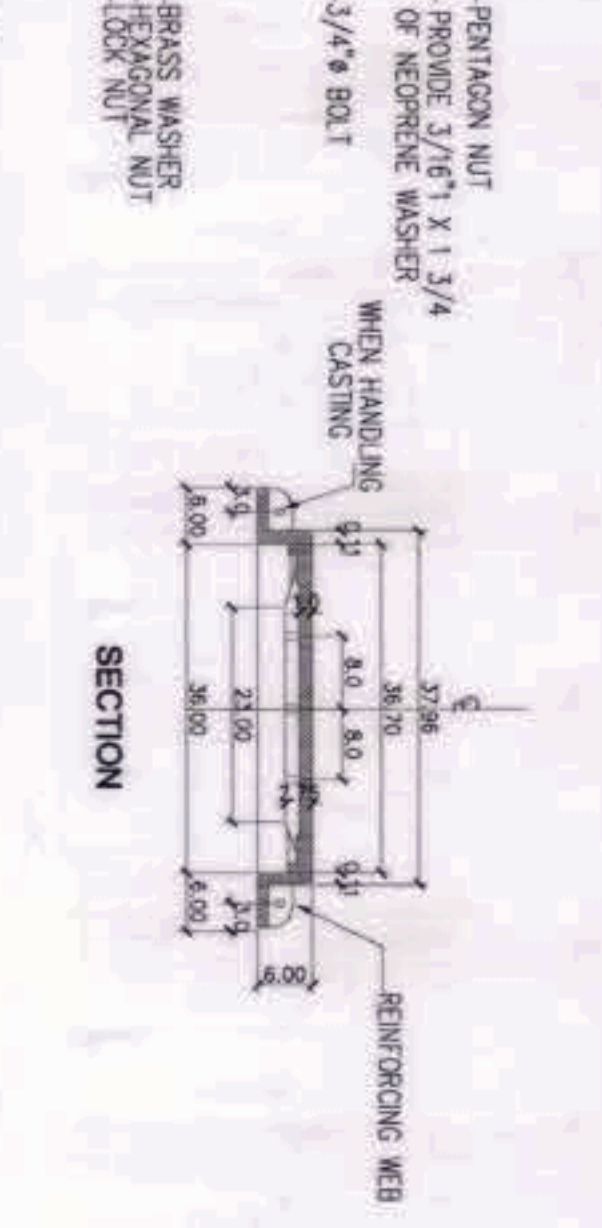
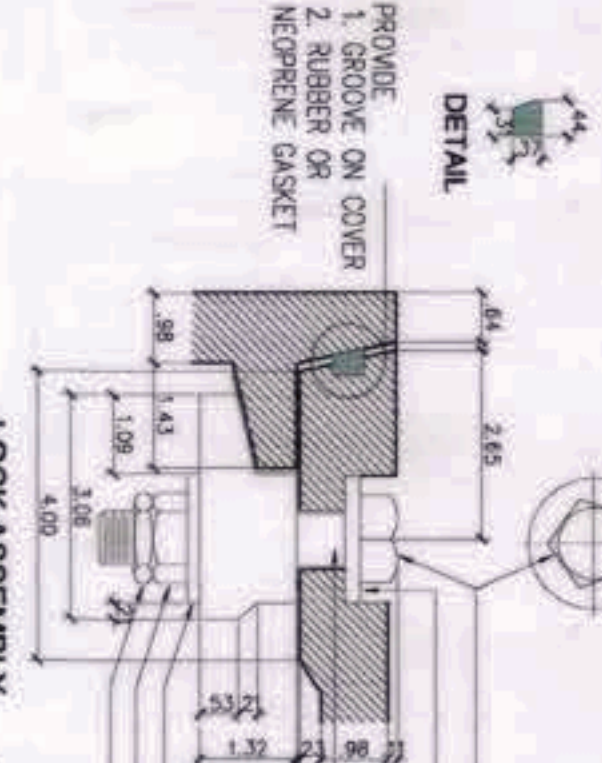
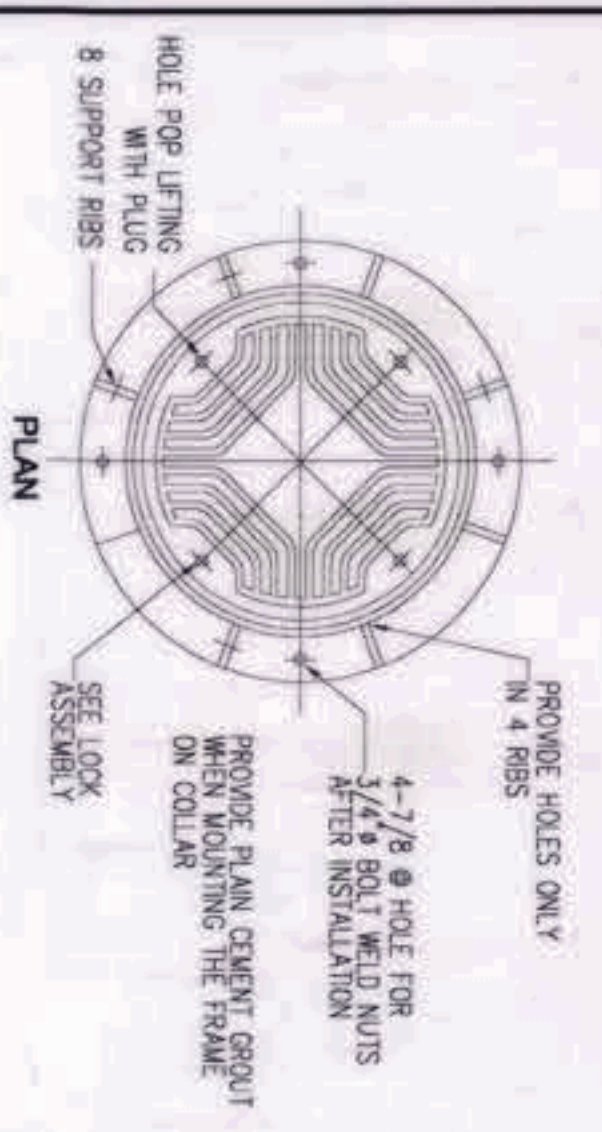
TCGI ENGINEERS  
200 W. Kalia Road, 10th Floor, Honolulu, HI 96813  
PRESIDENT: VIRGILIO A. MADRERA

AS-BUILT DRAWING  
NGAC PHASE 1A  
AQUATIC CENTER  
NEW CAARK CITY, CAPAS, TARLAC

ROOF PLAN LIGHTNING ARRESTER SYSTEM LAYOUT  
SHEET NO.: EE-16

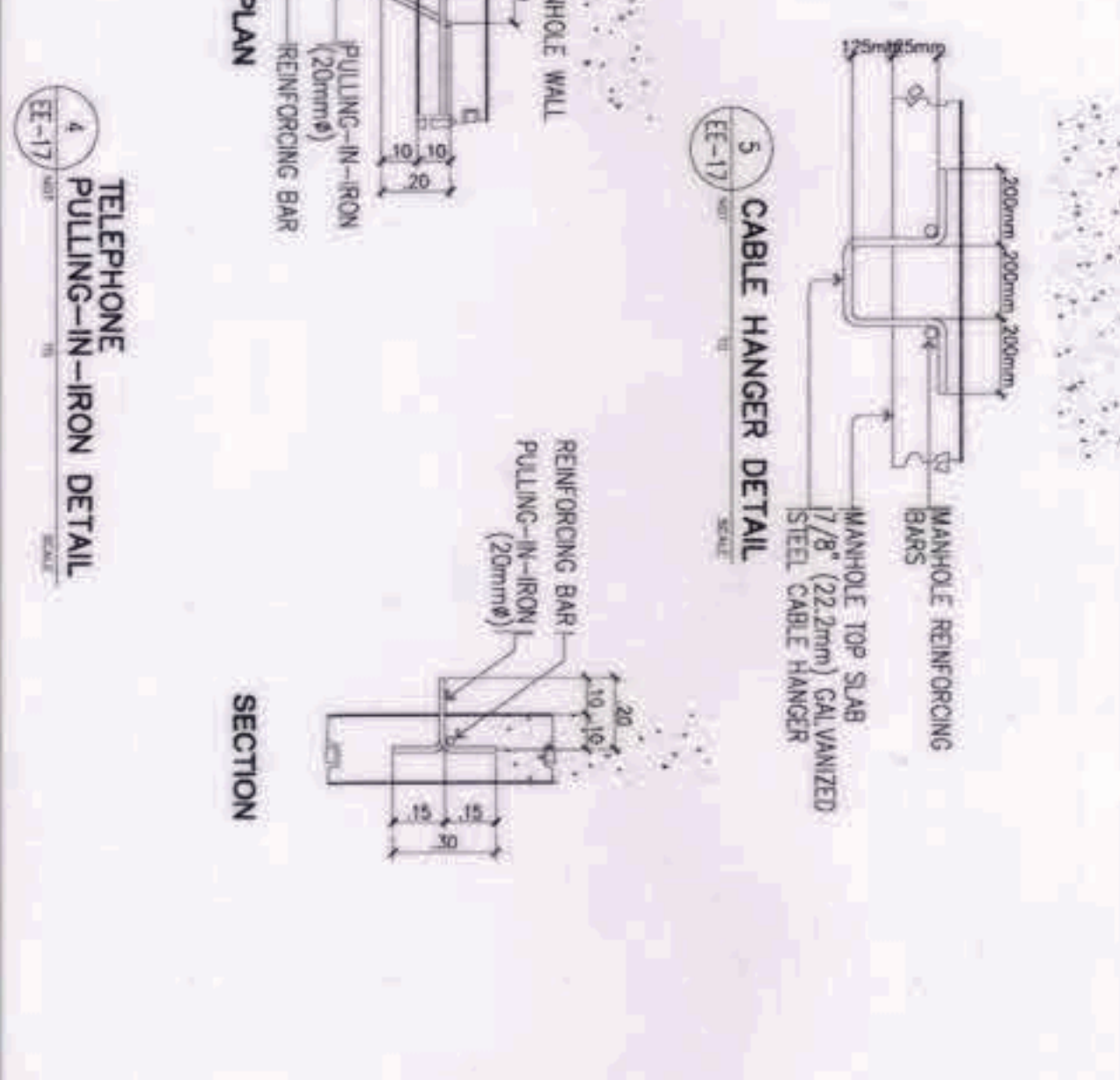
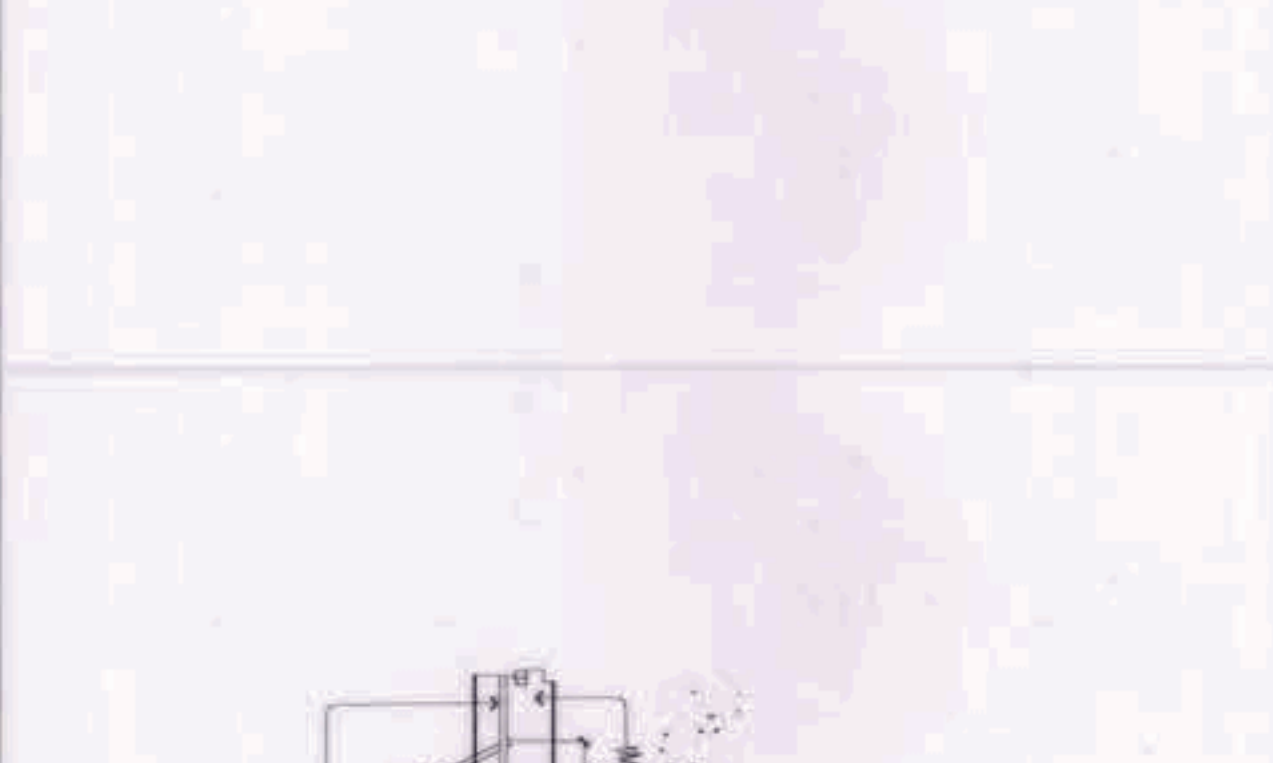
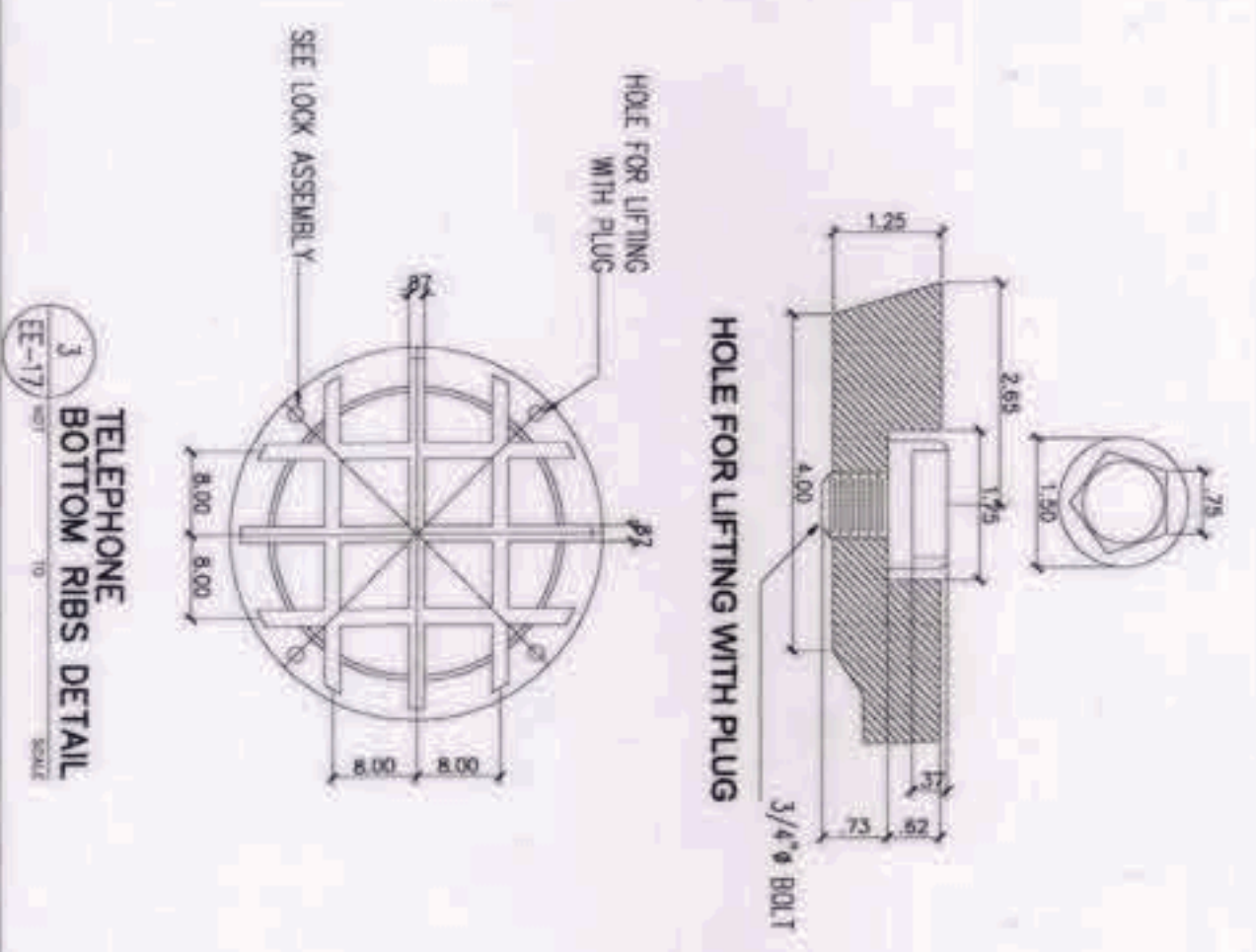


1 TELEPHONE MANHOLE DETAIL  
SCALE

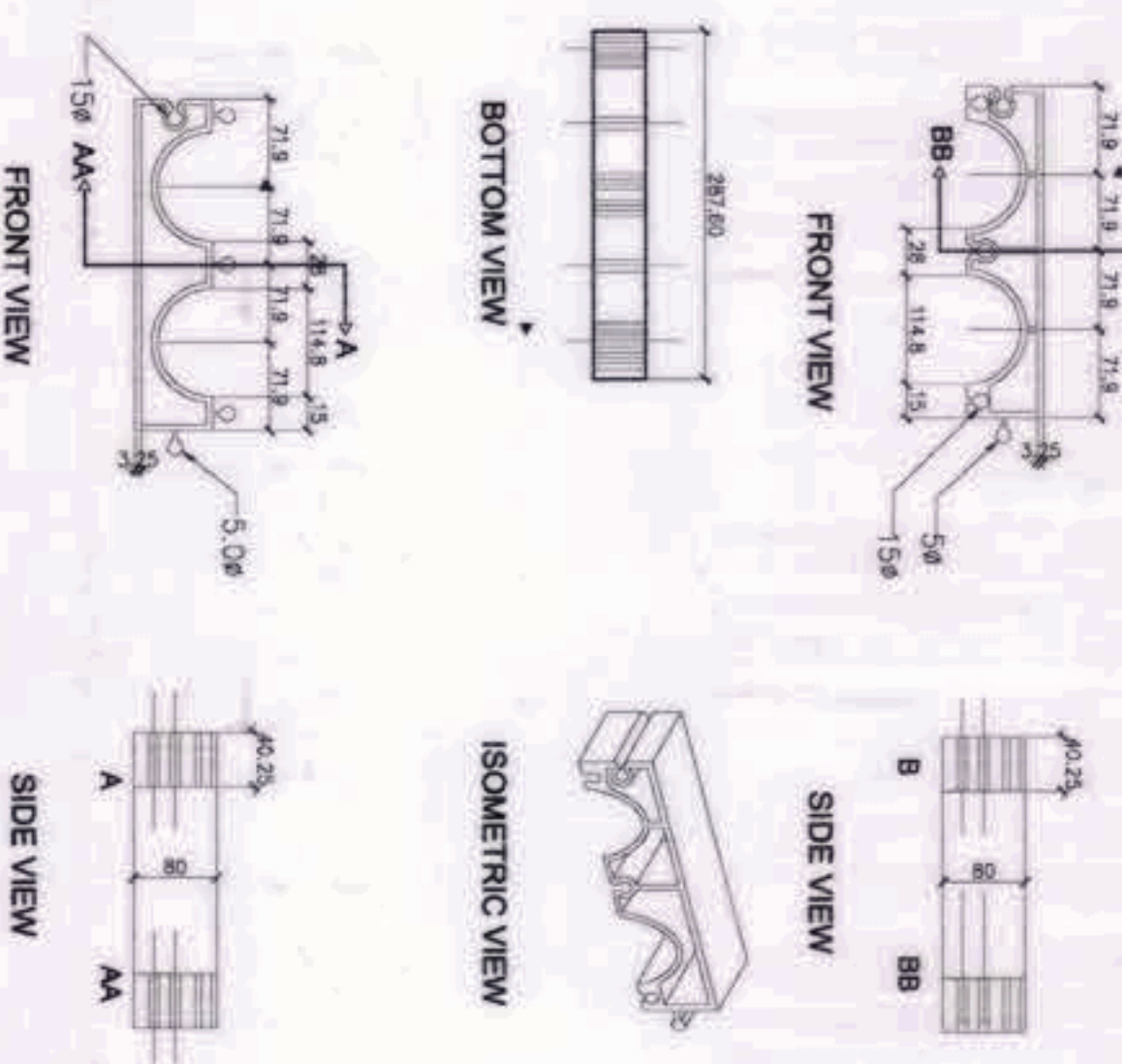


NOTES:  
1. ALL DETAILS ARE SUBJECT FOR FINAL APPROVAL OF LOCAL TELEPHONE COMPANY COORDINATE WITH PLDT AND PREPARE NECESSARY SHOP DRAWING FOR THEIR APPROVAL.

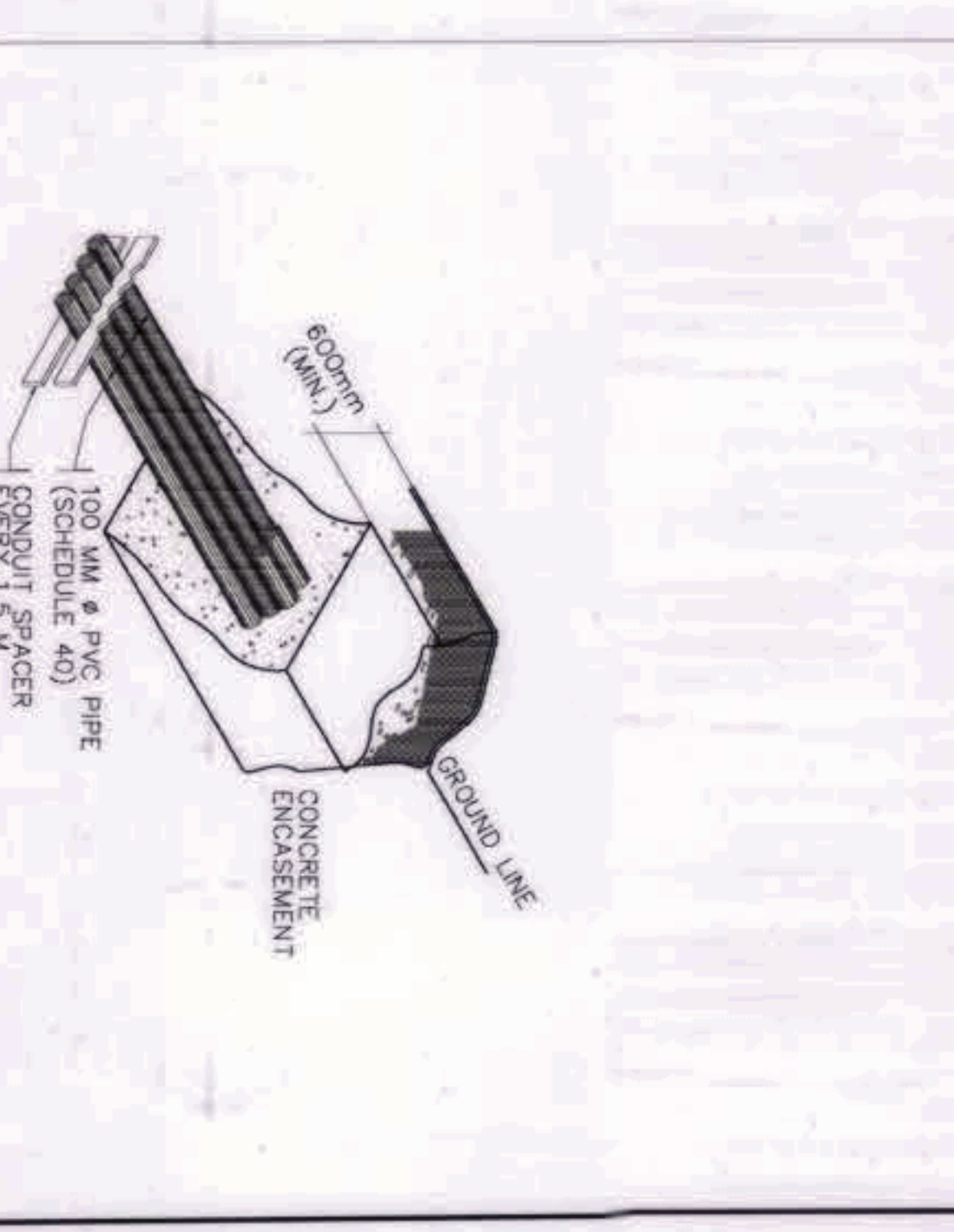
2 TELEPHONE MANHOLE FRAME AND COVER FABRICATION DETAIL  
SCALE



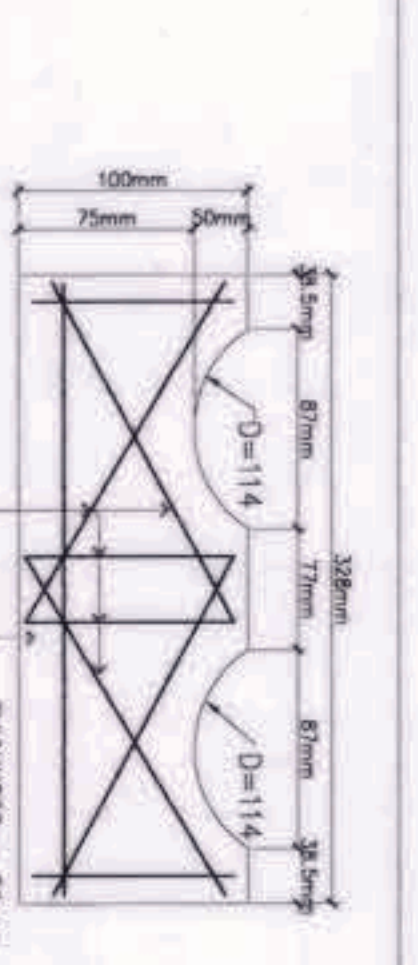
3 TELEPHONE BOTTOM RIBS DETAIL  
SCALE



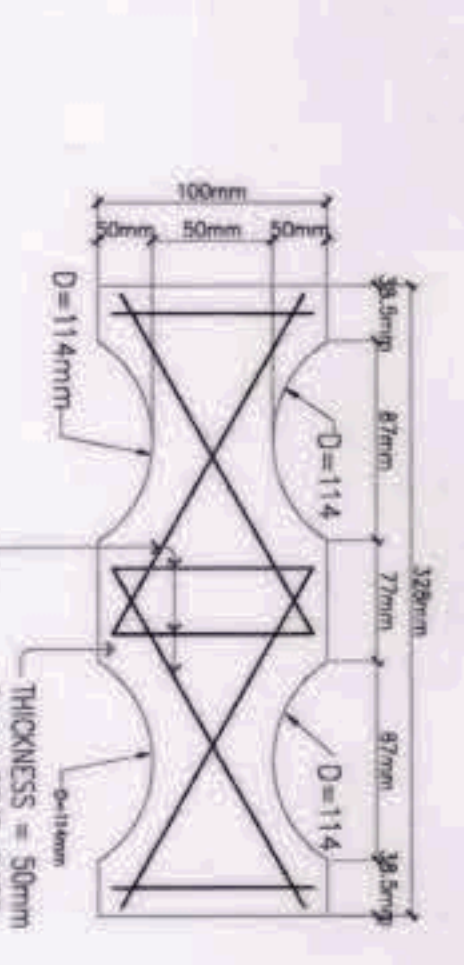
5 PVC DUCT SPACER DETAIL  
SCALE



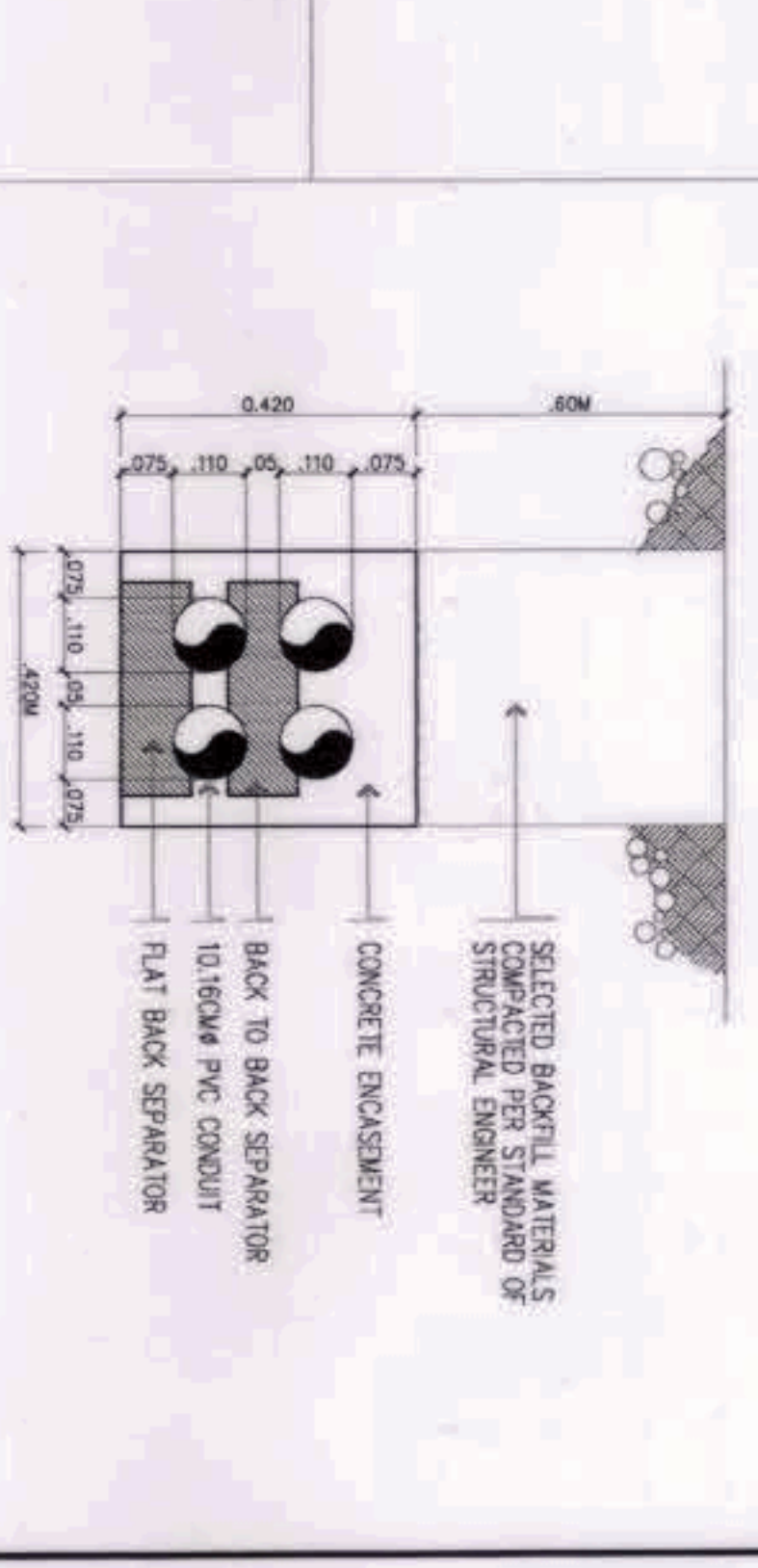
7 CONCRETE ENCASMENT  
SCALE



8 TYPICAL CONCRETE SEPARATOR FLAT BACK DETAIL  
SCALE



9 TYPICAL CONCRETE SEPARATOR BACK TO BACK DETAIL  
SCALE



10 CONDUIT RUN CONFIGURATION  
SCALE

GRAPHIC SCALE:  
4000  
1:200  
10000

A MISCELLANEOUS DETAIL PART-1  
SCALE: EE-17  
NTS

OWNER: NGAC PHASE 1 JV COMPANY  
PREPARED BY: Hilmar's Construction Corporation  
REVIEWED AND VALIDATED BY: FILIPINAS DRAVO CORPORATION  
SUBMITTED BY: BANDAR HERBAT BUILDERS, INC.  
CERTIFIED BY: TCGI ENGINEERS  
PROJECT TITLE: AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPAS, TARLAC  
SHEET NO. EE-17

BCDA AND AVENCIO B. DIZON PRESIDENT  
AND HILMAR'S CONSTRUCTION CORPORATION 1885 E. RODRIGUEZ ST., ANTONIA, QUEEN CITY  
PATRICK NICHOLAS & DAVID PRESIDENT  
AND HILMAR'S CONSTRUCTION CORPORATION 1885 E. RODRIGUEZ ST., ANTONIA, QUEEN CITY  
ERASIS V. HERBAS PROJECT MANAGER

FILIPINAS DRAVO CORPORATION ARCHITECTS & ENGINEERING CONSULTANTS  
ALFREDO R. BELLILA PROJECT MANAGER

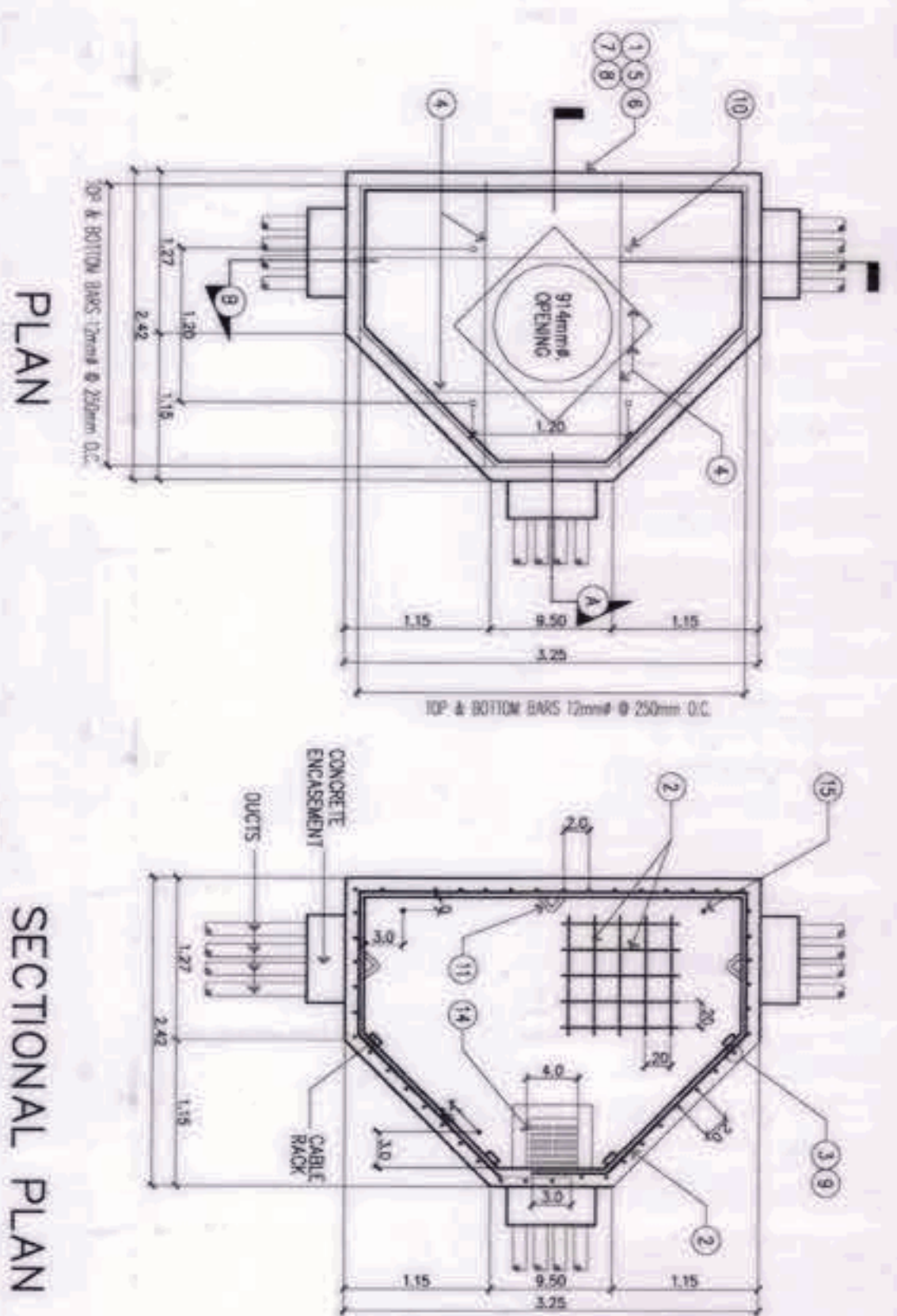
BANDAR HERBAT BUILDERS, INC. ISMAC & DAVID PRESIDENT

TCGI ENGINEERS VEROLINA MADRADO PRESIDENT/CEO

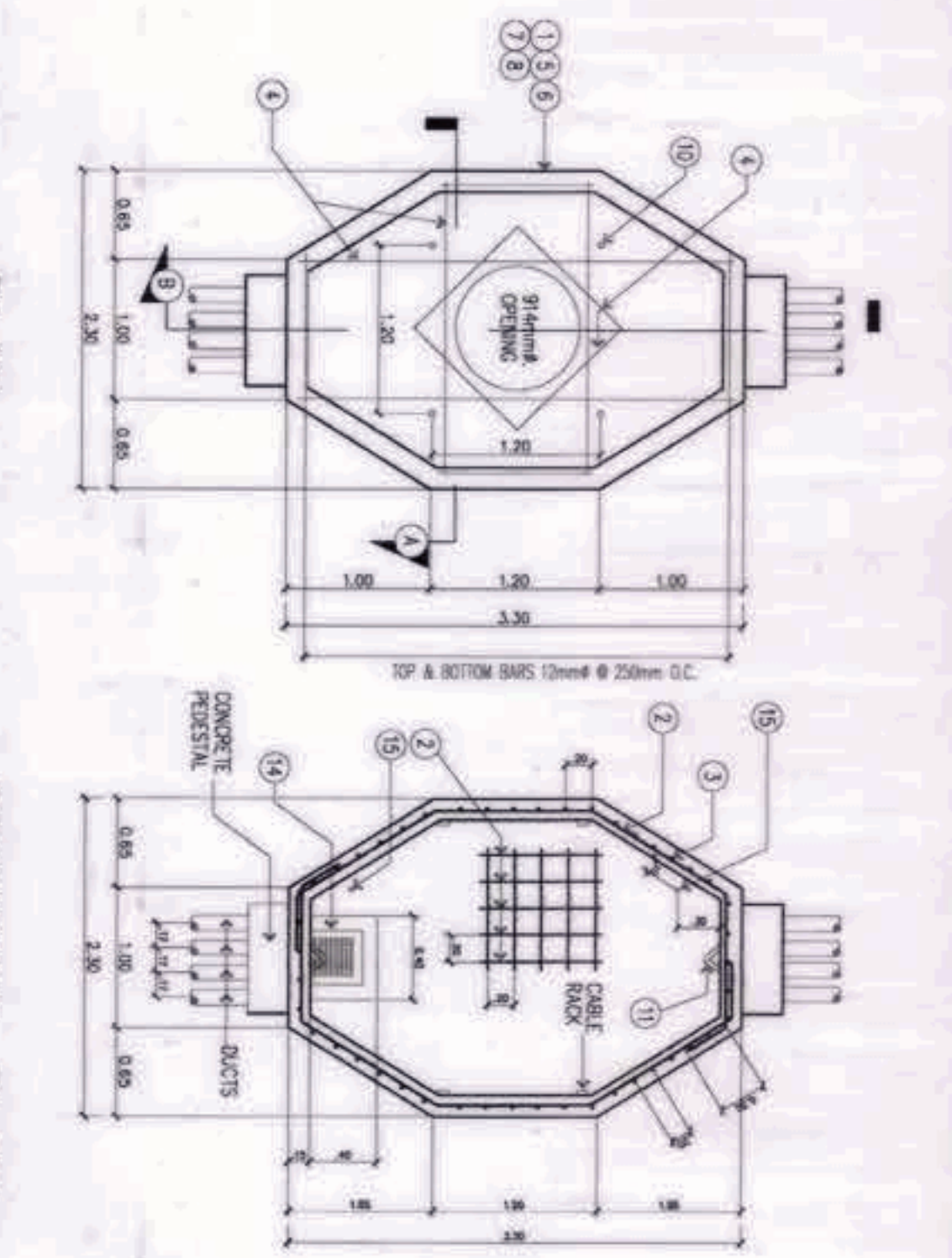
AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CAPAS, TARLAC

MISCELLANEOUS DETAIL PART-1

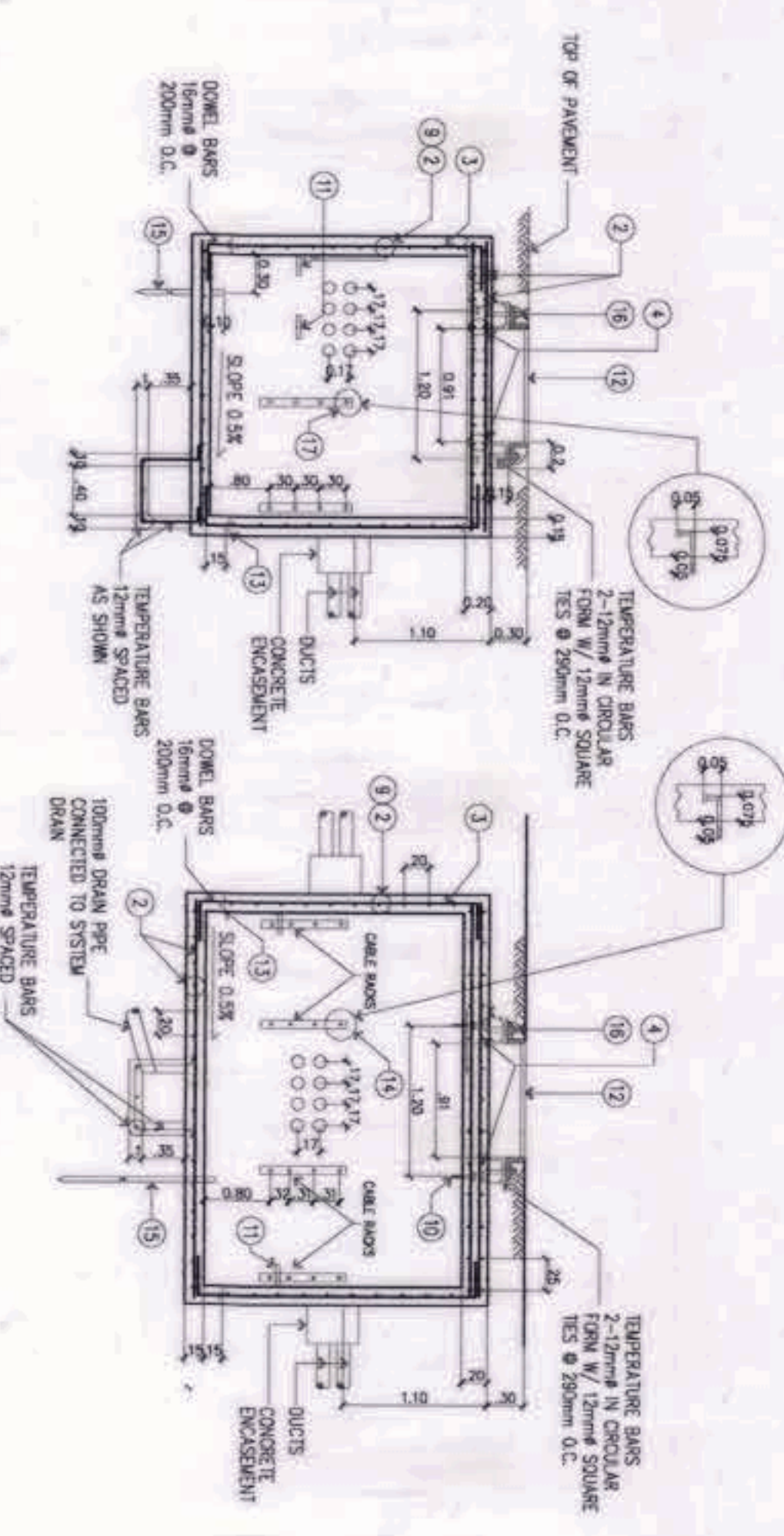
EE-17



- NOTES:**
1. PRIMARY MANHOLE SHALL BE USED PRIMARILY ALONG ROADWAYS.
  2. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE (F<sub>c</sub>) SHALL BE 17.2 MPa (2500 PSI).
  3. REINFORCING BARS SHALL CONFORM TO PS GRADE 275 F<sub>y</sub> = 275 MPa (40000 PSI).
  4. THE MINIMUM SOIL BEARING CAPACITY SHALL BE 80 KN/50. M (2000 PSF).
  5. ALL LAP JOINTS IN REINFORCING BARS SHALL BE TO A MINIMUM OF 300MM.
  6. SEAL WITH WATER STOP SEALER ALL CONSTRUCTION JOINTS PRIOR TO NEXT POURING.
  7. FLOOR SLAB SHALL SLOPE GRADUALLY TOWARDS DRAIN PIT TO PROVIDE POSITIVE DRAIN.
  8. PAVING IN AREA SHALL BE INSTALLED ON THE WALL OPPOSITE THE CONDUIT ENTRANCE AND IN LINE WITH THE DUCTS AND NOT HIGHER THAN THE CENTERLINE OF THE LOWER MOST DUCTS AT THE OPPOSITE CONDUIT ENTRANCE.
  9. ALL EDGES OF SLAB OPENING SHALL BE REINFORCED ACCORDANCE.
  10. CLEAR CONDUIT ENTRANCE FROM REINFORCED BARS BOND OR LOOP AROUND GROUP AND IN LINE WITH THE DUCTS AND NOT HIGHER THAN THE CENTERLINE OF THE LOWER MOST DUCTS IN THE CONSTRUCTION OF PRIMARY CONDUIT SYSTEM MAY BE USED AS DRAIN PIPE.
  11. WHERE DRAIN PIPE LEADS DIRECTLY INTO STERNS, TRAP SHOULD BE USED TO KEEP STERNS GAS OUT OF THE PULLING BOX.
  12. ALL BOPHET UNDER FLOOR SLAB SHALL BE FINALLY TAMPED BEFORE POURING.

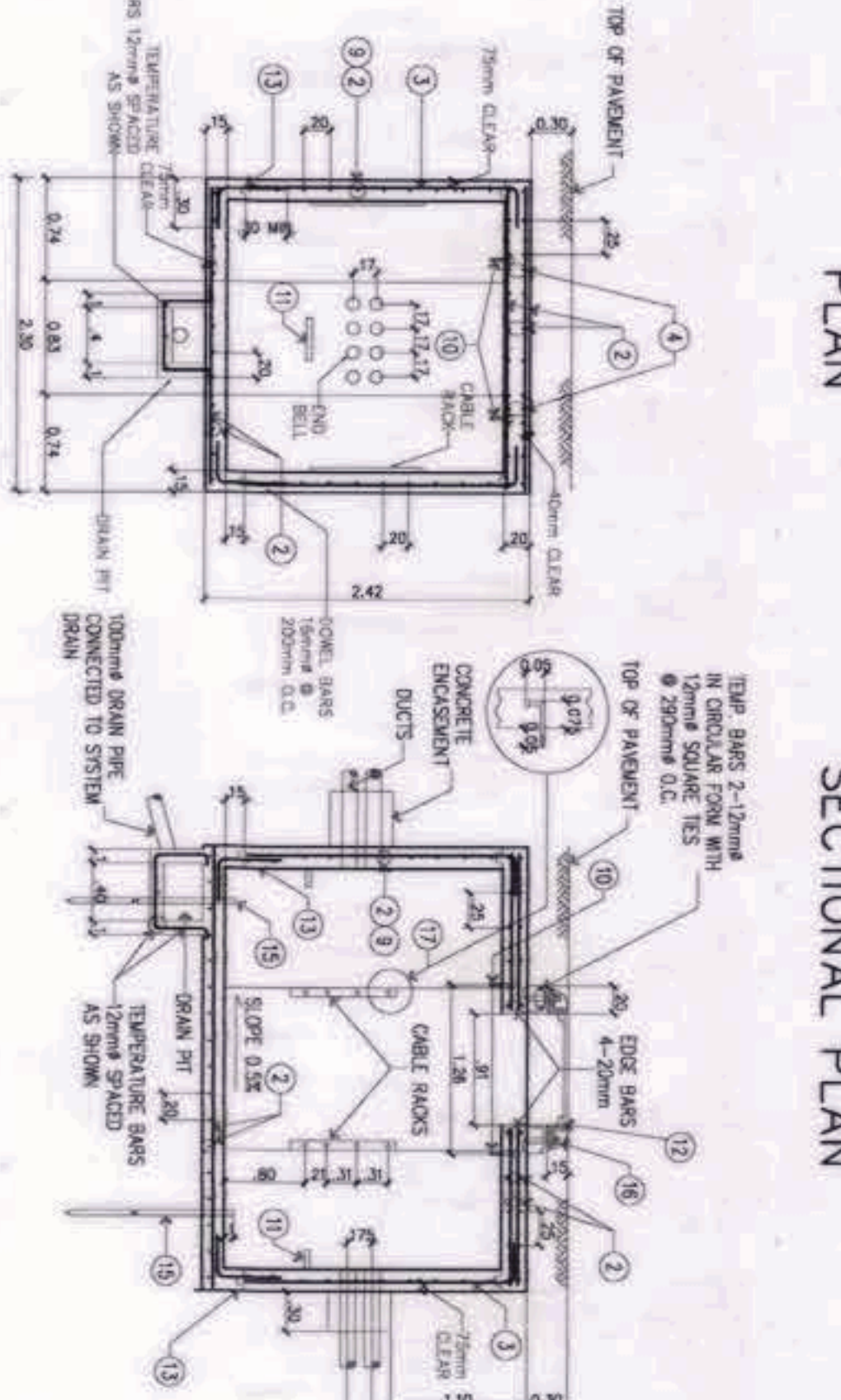


- NOTES:**
1. PRIMARY MANHOLE SHALL BE USED PRIMARILY ALONG ROADWAYS.
  2. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE (F<sub>c</sub>) SHALL BE 17.2 MPa (2500 PSI).
  3. REINFORCING BARS SHALL CONFORM TO PS GRADE 275 F<sub>y</sub> = 275 MPa (40000 PSI).
  4. THE MINIMUM SOIL BEARING CAPACITY SHALL BE 80 KN/50. M (2000 PSF).
  5. ALL LAP JOINTS IN REINFORCING BARS SHALL BE TO A MINIMUM OF 300MM.
  6. SEAL WITH WATER STOP SEALER ALL CONSTRUCTION JOINTS PRIOR TO NEXT POURING.
  7. FLOOR SLAB SHALL SLOPE GRADUALLY TOWARDS DRAIN PIT TO PROVIDE POSITIVE DRAIN.
  8. PAVING IN AREA SHALL BE INSTALLED ON THE WALL OPPOSITE THE CONDUIT ENTRANCE AND IN LINE WITH THE DUCTS AND NOT HIGHER THAN THE CENTERLINE OF THE LOWER MOST DUCTS AT THE OPPOSITE CONDUIT ENTRANCE.
  9. ALL EDGES OF SLAB OPENING SHALL BE REINFORCED ACCORDANCE.
  10. CLEAR CONDUIT ENTRANCE FROM REINFORCED BARS BOND OR LOOP AROUND GROUP OR DUCTS AS FIELD CONDITIONS MAY REQUIRE.
  11. PVC ELECTRICAL DUCTS USED IN THE CONSTRUCTION OF PRIMARY CONDUIT SYSTEM MAY BE USED AS DRAIN PIPE.
  12. WHERE DRAIN PIPE LEADS DIRECTLY INTO STERNS, TRAP SHOULD BE USED TO KEEP STERNS GAS OUT OF THE PULLING BOX.
  13. ALL BOPHET UNDER FLOOR SLAB SHALL BE FINALLY TAMPED BEFORE POURING.



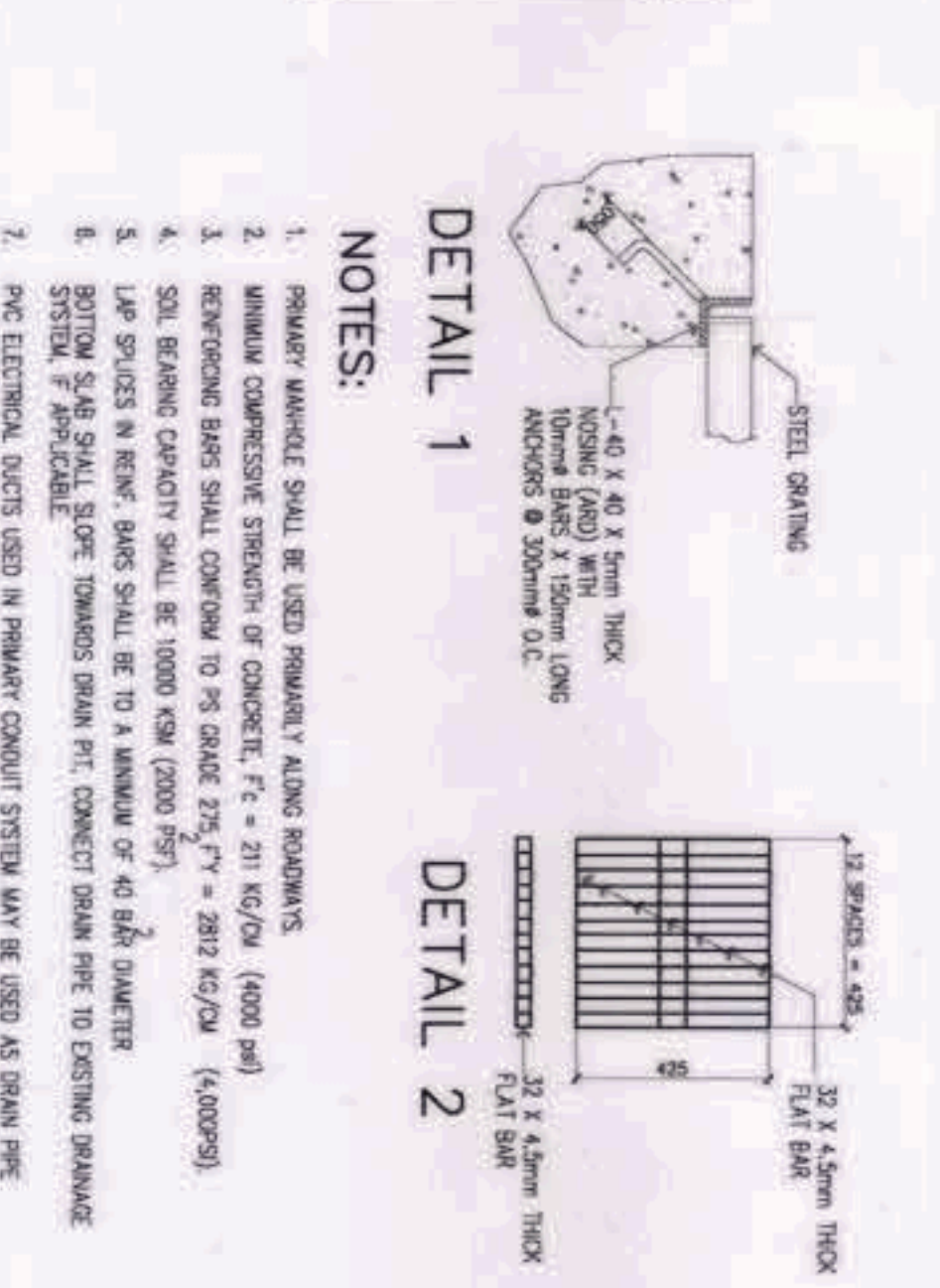
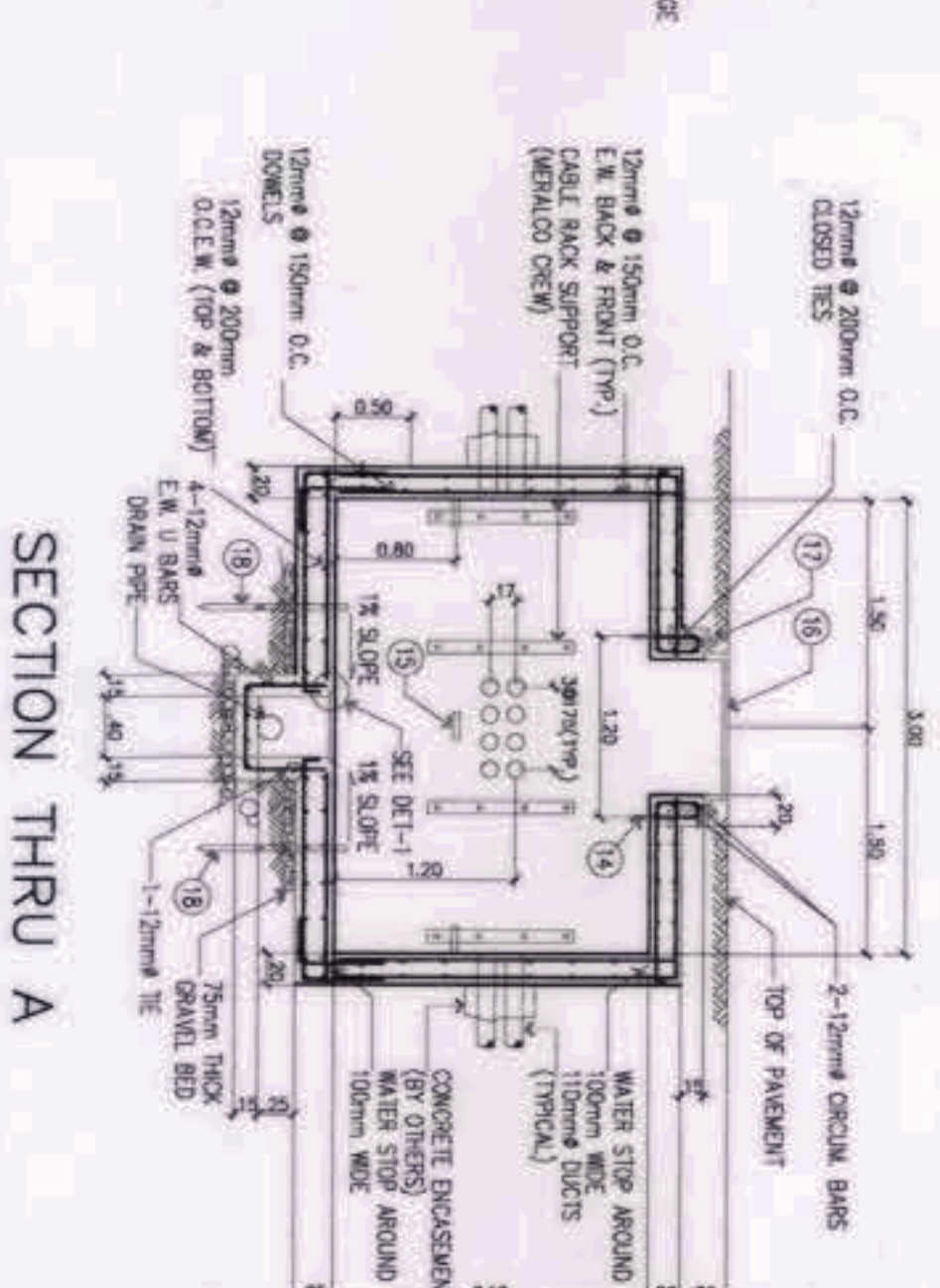
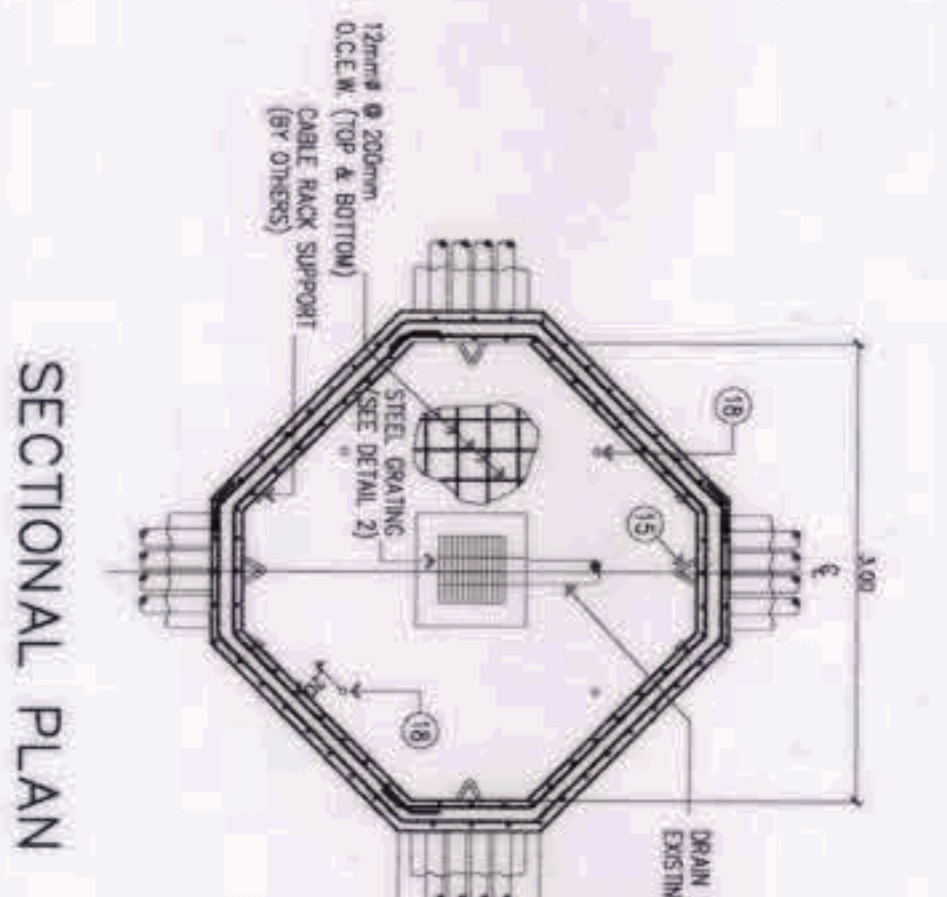
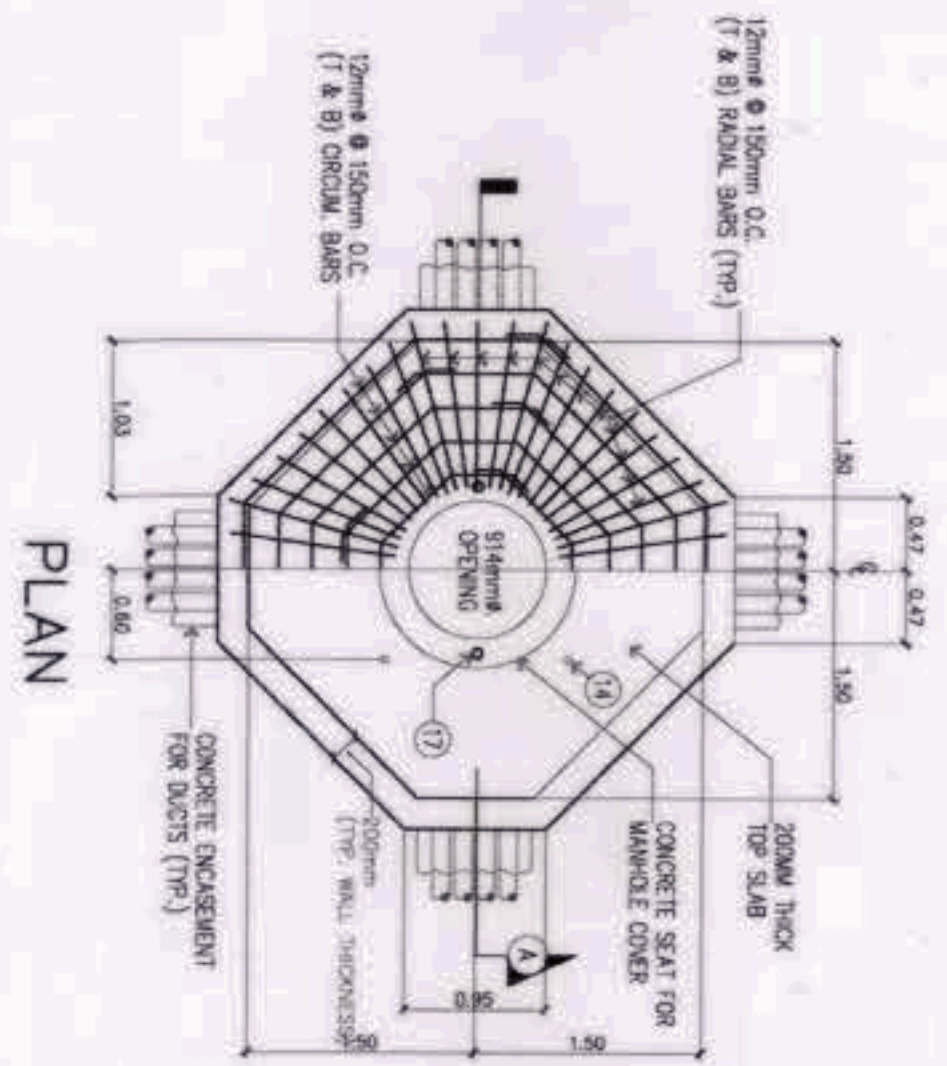
**FOR PRIMARY MANHOLE - 3-WAY**

ITEM	DESCRIPTION
1	CONCRETE
2	REINFORCING BARS, 12mm x 6000mm LONG
3	REINFORCING BARS, 12mm x 6000mm LONG
4	REINFORCING BARS, 20mm x 6000mm LONG
5	FLOOR LUMBER, 25 X 300 X 5000 (7' X 12' X 20')
6	FLOOR LUMBER, 50 X 150 X 6000 (2' X 6' X 18')
7	COMMON NAIL, 75mm LONG
8	TE. WIRE, GA. NO. 16 CL.
9	WATER STOP SEALER, POLYURETHANE PLASTIC, 100 WIDE
10	PULLING-IN BOX
11	MANHOLE FRAME & COVER, DMC, USP-MH-TC
12	WATER STOP SEALER, POLYURETHANE PLASTIC, 100 WIDE
13	DRAIN PIT COVER GRATING, DMC, NO. E-82-1
14	GROUND ROD, 20mm x 2000mm LONG
15	ANCHOR BOLT, 12mm x 200mm LONG
16	ANCHOR BOLT, 12mm x 175mm LONG
17	MACHINE BOLT, 12mm x 175mm LONG



**FOR PRIMARY MANHOLE - 2-WAY**

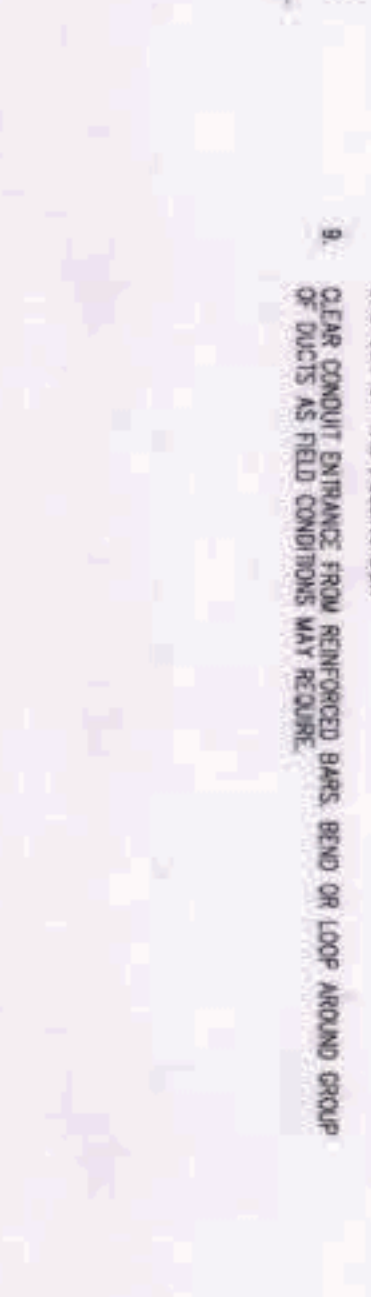
ITEM	DESCRIPTION
1	CONCRETE
2	REINFORCING BARS, 12mm x 6000mm LONG
3	REINFORCING BARS, 12mm x 6000mm LONG
4	REINFORCING BARS, 20mm x 6000mm LONG
5	FLOOR LUMBER, 25 X 300 X 5000 (7' X 12' X 20')
6	FLOOR LUMBER, 50 X 150 X 6000 (2' X 6' X 18')
7	COMMON NAIL, 75mm LONG
8	TE. WIRE, GA. NO. 16 CL.
9	WATER STOP SEALER, POLYURETHANE PLASTIC, 100 WIDE
10	PULLING-IN BOX
11	MANHOLE FRAME & COVER, DMC, USP-MH-TC
12	WATER STOP SEALER, POLYURETHANE PLASTIC, 100 WIDE
13	DRAIN PIT COVER GRATING, DMC, NO. E-82-1
14	GROUND ROD, 20mm x 2000mm LONG
15	ANCHOR BOLT, 12mm x 200mm LONG
16	ANCHOR BOLT, 12mm x 175mm LONG
17	MACHINE BOLT, 12mm x 175mm LONG



**FOR PRIMARY MANHOLE - 4-WAY**

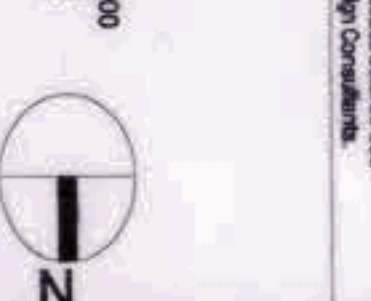
ITEM	DESCRIPTION
1	EXCAVATION
2	CONCRETE
3	REINFORCING BARS, 12mm x 6000mm LONG
4	REINFORCING BARS, 12mm x 6000mm LONG
5	REINFORCING BARS, 20mm x 6000mm LONG
6	TE. WIRE, GA. NO. 16 CL.
7	FLOOR LUMBER, (ASSORTED)
8	FLOOR LUMBER, 25 X 300 X 5000 (7' X 12' X 20')
9	COMMON NAIL, (ASSORTED)
10	FLOOR LUMBER, 50 X 150 X 6000 (2' X 6' X 18')
11	TE. WIRE, GA. NO. 16 CL.
12	WATER STOP SEALER, POLYURETHANE PLASTIC, 100 WIDE
13	PULLING-IN BOX
14	MANHOLE FRAME & COVER, DMC, USP-MH-TC
15	WATER STOP SEALER, POLYURETHANE PLASTIC, 100 WIDE
16	GROUND ROD, 20mm x 2000mm LONG
17	ANCHOR BOLT, 12mm x 200mm LONG
18	ANCHOR BOLT, 12mm x 175mm LONG
19	MACHINE BOLT, 12mm x 175mm LONG

**MISCELLANEOUS DETAIL PART-2**  
SCALE: EE-18



**NOTES:**

1. PRIMARY MANHOLE SHALL BE USED PRIMARILY ALONG ROADWAYS.
2. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE (F<sub>c</sub>) = 211 KG/CM<sup>2</sup> (4000 PSI).
3. REINFORCING BARS SHALL CONFORM TO PS GRADE 275 F<sub>y</sub> = 275 MPa (40000 PSI).
4. SOIL BEARING CAPACITY SHALL BE 10000 N/M<sup>2</sup> (2000 PSF).
5. LAP JOINTS IN REINFORCING BARS SHALL BE TO A MINIMUM OF 40 BAR DIAMETER.
6. BOTTOM SLAB SHALL SLOPE GRADUALLY TOWARDS DRAIN PIT TO PROVIDE POSITIVE DRAIN.
7. PAVEMENT SHALL BE INSTALLED ON THE WALL OPPOSITE THE CONDUIT ENTRANCE AND IN LINE WITH THE DUCTS AND NOT HIGHER THAN THE CENTERLINE OF THE LOWER MOST DUCTS AT THE OPPOSITE CONDUIT ENTRANCE.
8. CLEAR CONDUIT ENTRANCE FROM REINFORCED BARS BOND OR LOOP AROUND GROUP OF DUCTS AS FIELD CONDITIONS MAY REQUIRE.



OWNER: NGAC PHASE I JV COMPANY

PREPARED BY: BCD&A AND PATRICK MCKENNA & ASSOCIATES

REVIEWED AND VALIDATED BY: Hilmar's Construction Corporation

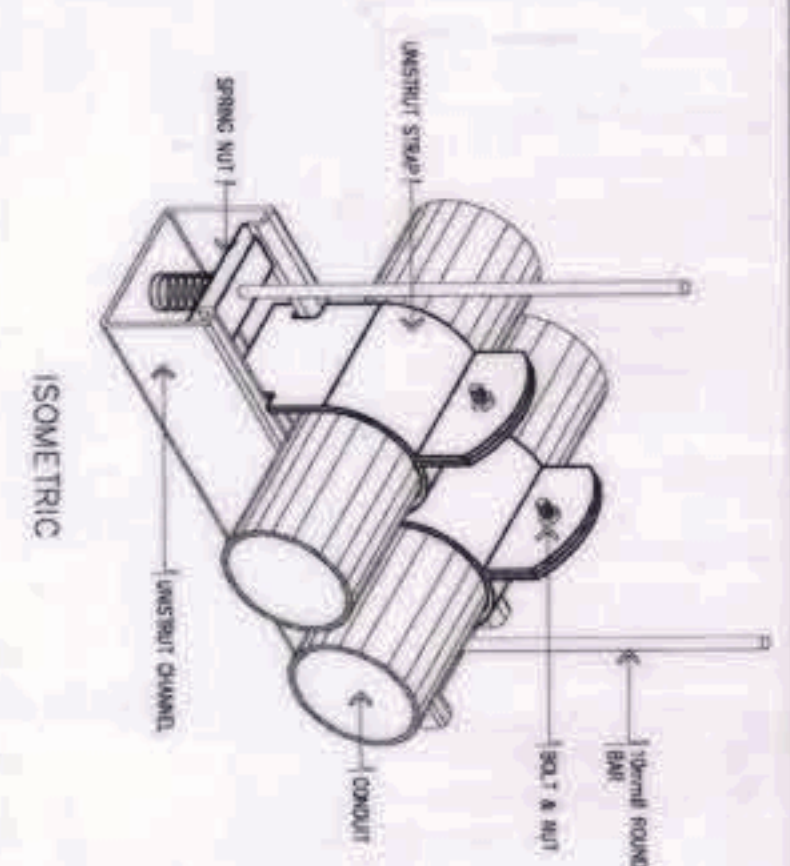
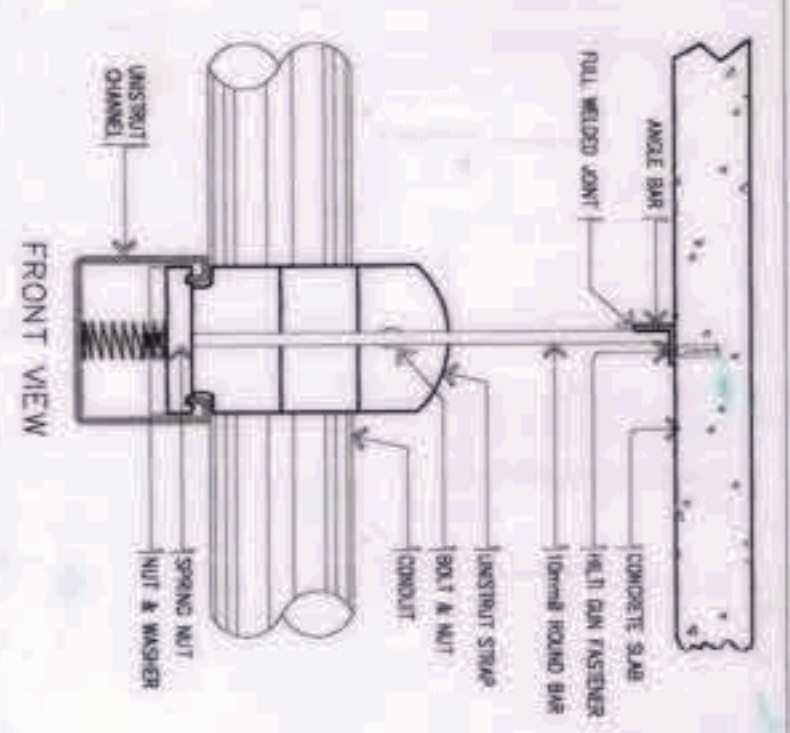
SUBMITTED BY: BANDAR HERBAT BUILDERS, INC.

CERTIFIED BY: INDEPENDENT CONSULTANT: TCGI ENGINEERS

PROJECT TITLE: AS-BUILT DRAWING NGAC PHASE 1A AQUATIC CENTER NEW CLARK CITY, CALIF., TAYLOR

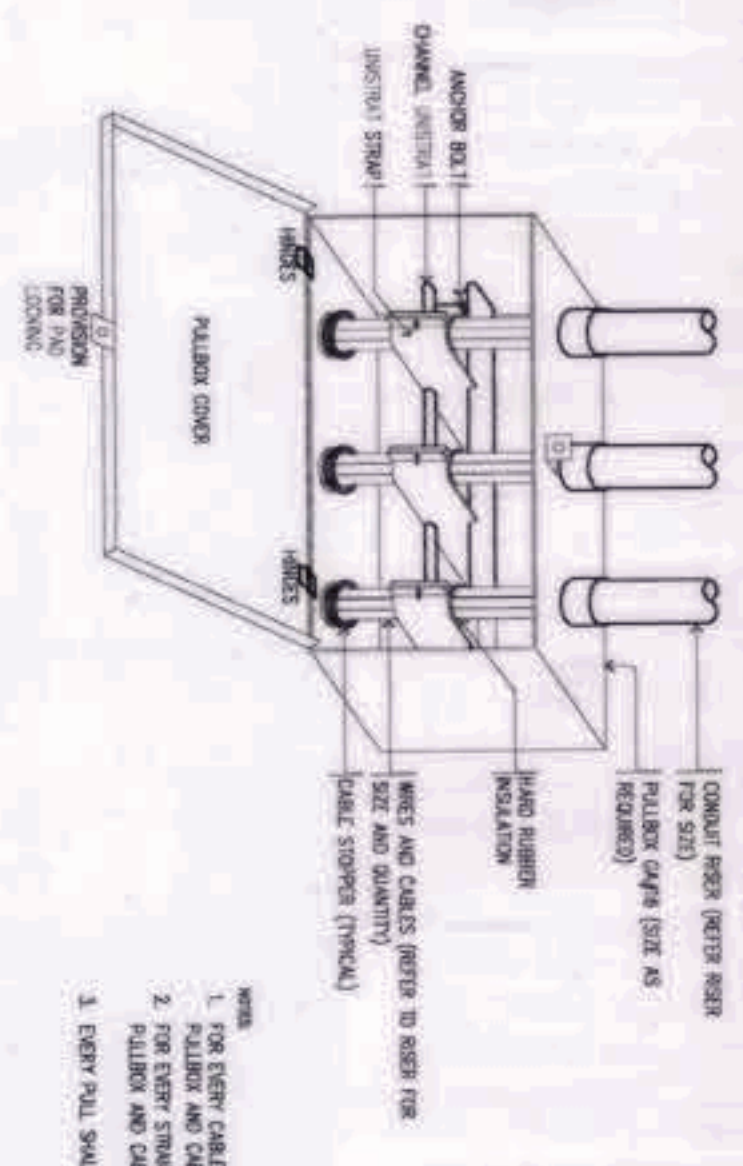
SHEET NO.: EE-18



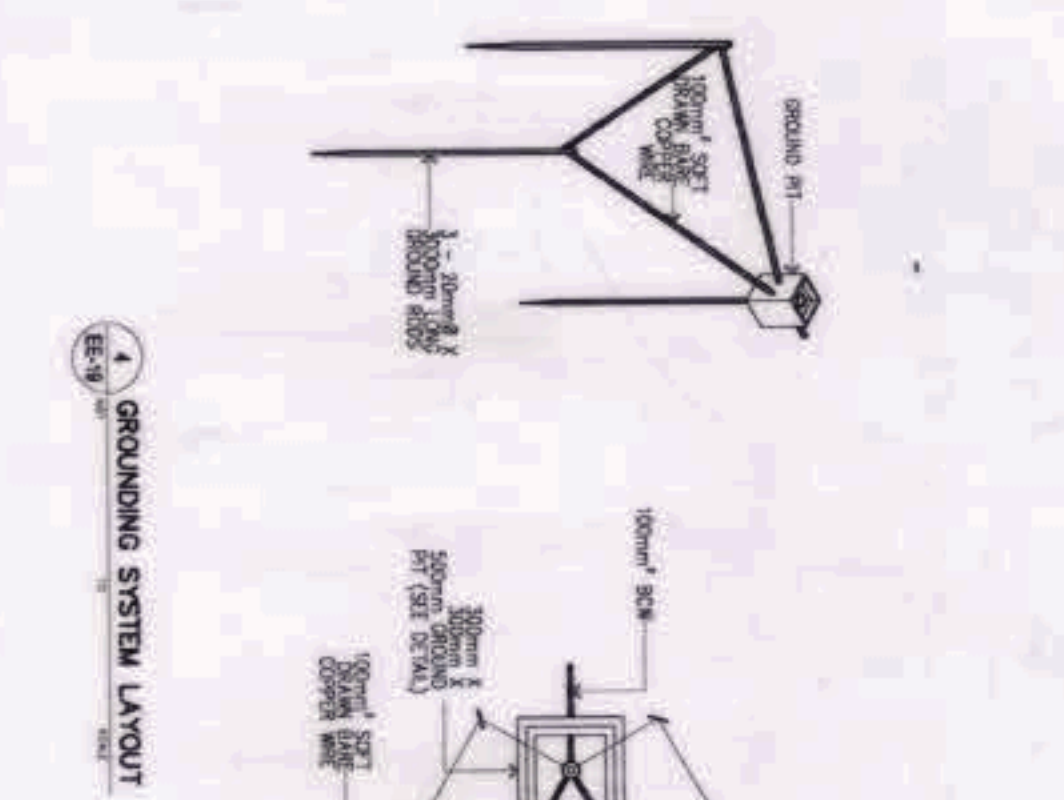
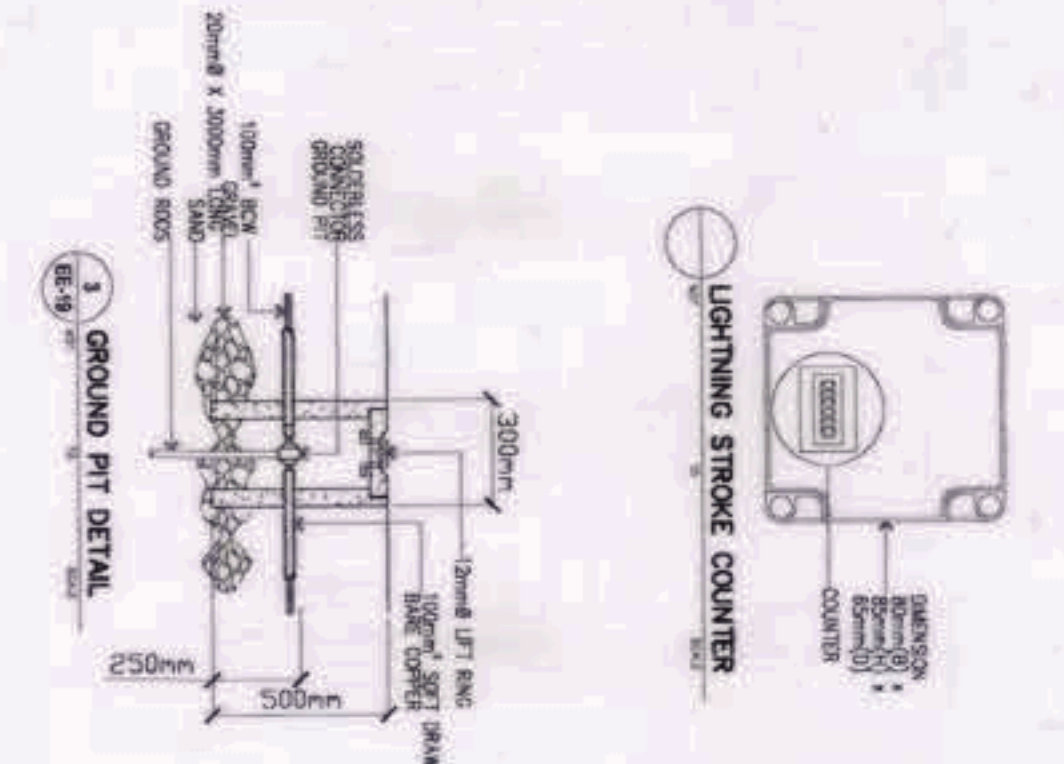
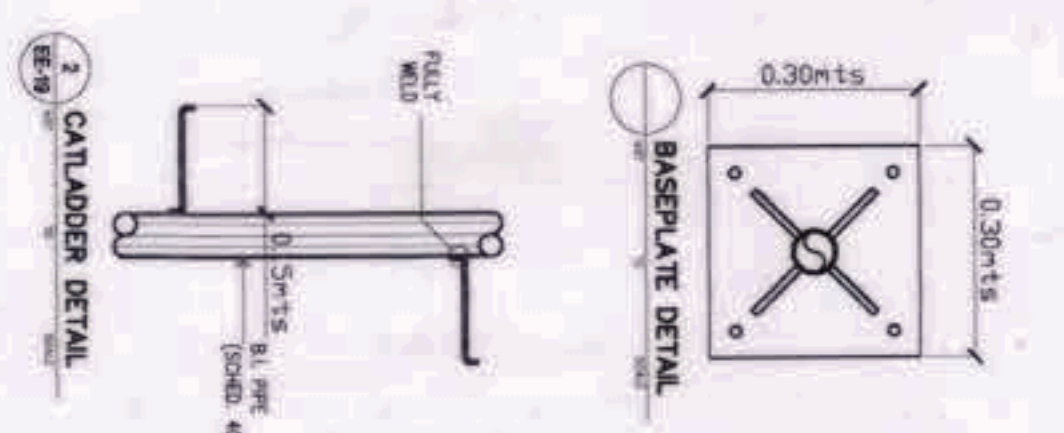
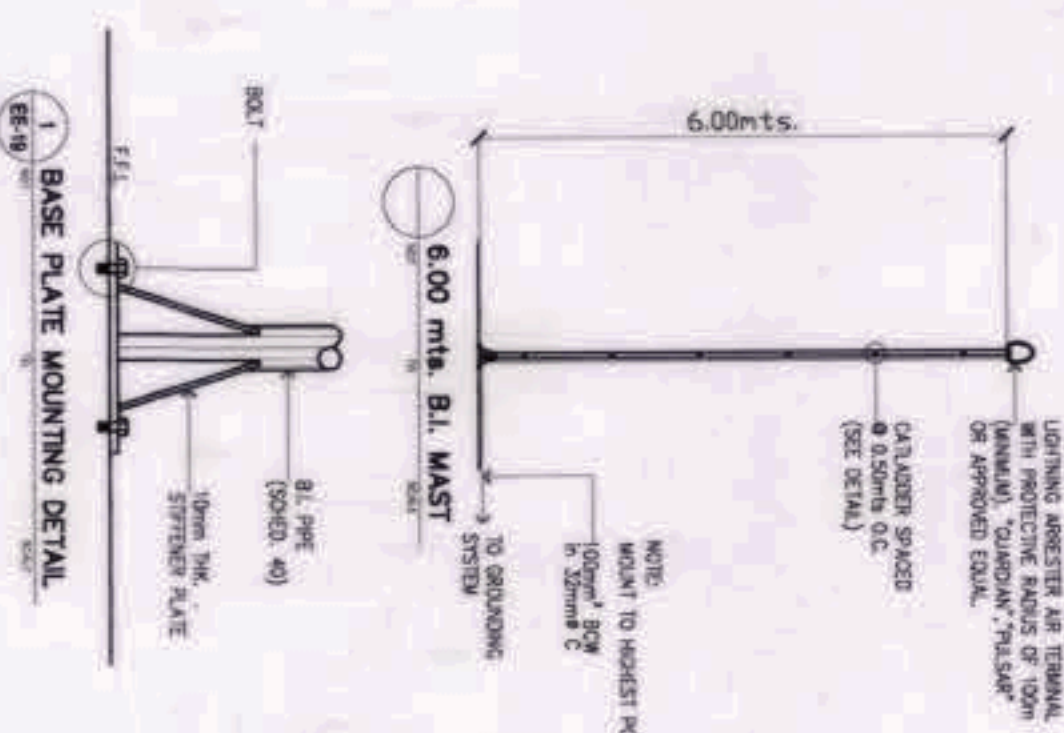


CONDUIT SUPPORT DETAIL

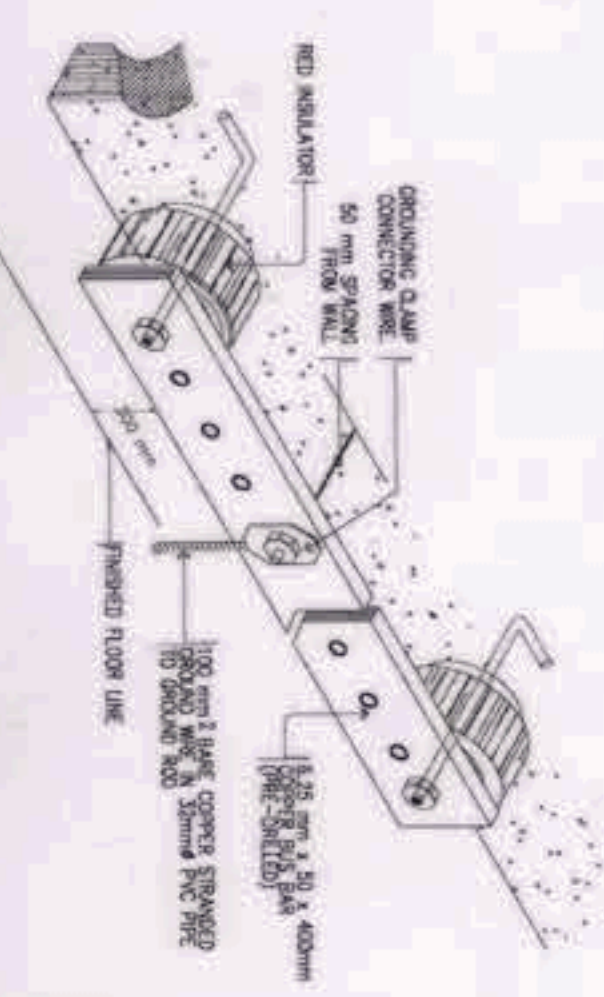
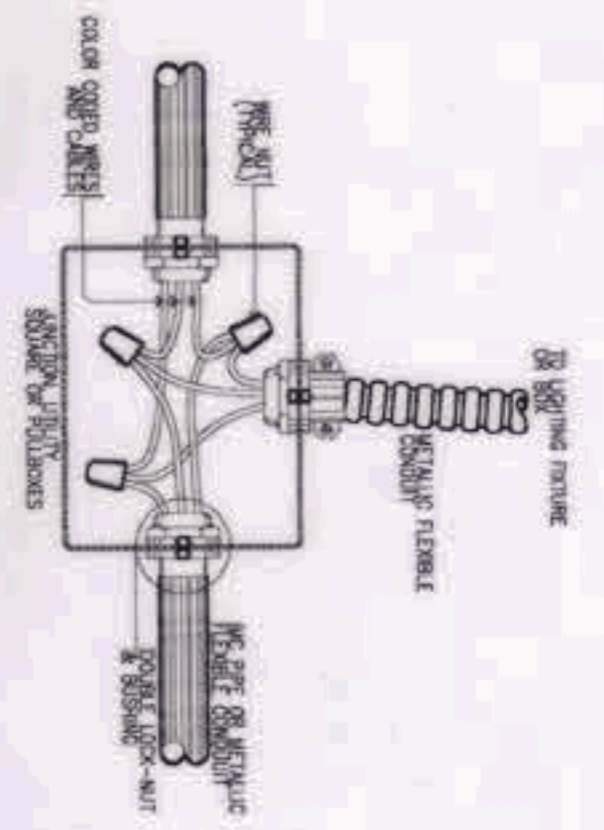
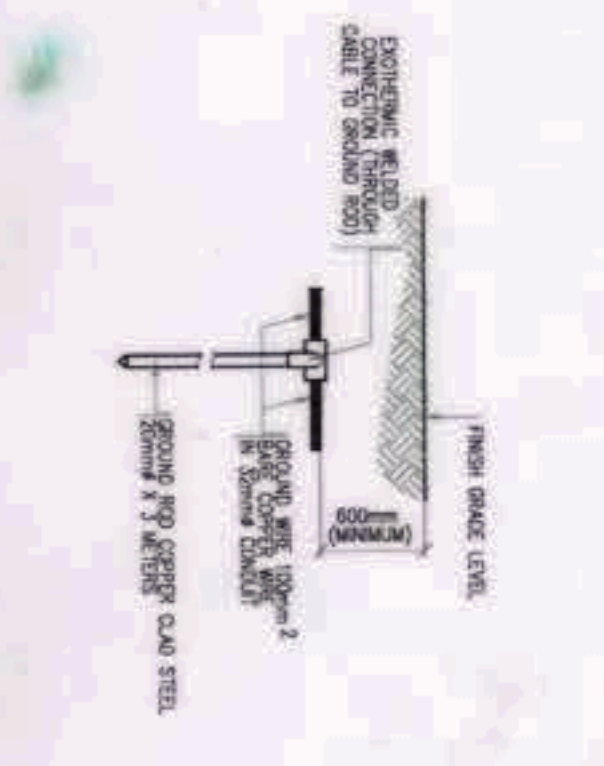
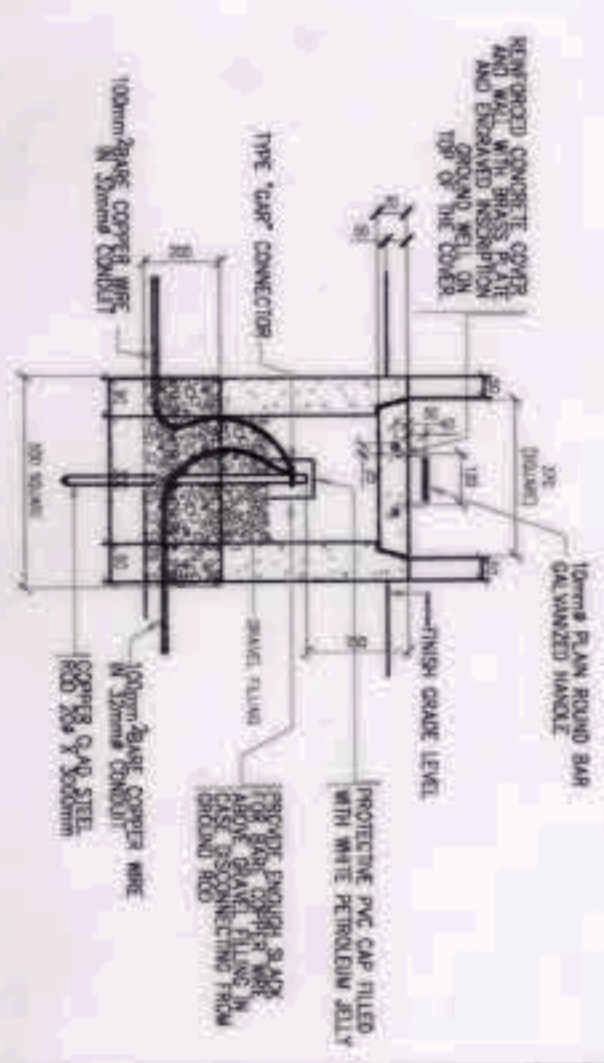
PULLBOX AND CABLE RISER SUPPORT DETAIL



- NOTE:
- FOR EVERY CABLE RISE SYSTEM SHALL BE PROVIDED WITH PULLBOX AND CABLE SUPPORT.
  - FOR EVERY STRAIGHT CABLE RISE SHALL BE PROVIDED WITH PULLBOX AND CABLE SUPPORT FROM TOP TO BOTTOM FLOOR.
  - EVERY SHALL BE PROVIDED WITH CABLE SUPPORT.



AIR TERMINAL MOUNTING DETAIL



GROUND TEST WELL DETAIL

GROUND ROD DETAIL

RACEWAY AND BOX CONNECTION DETAIL

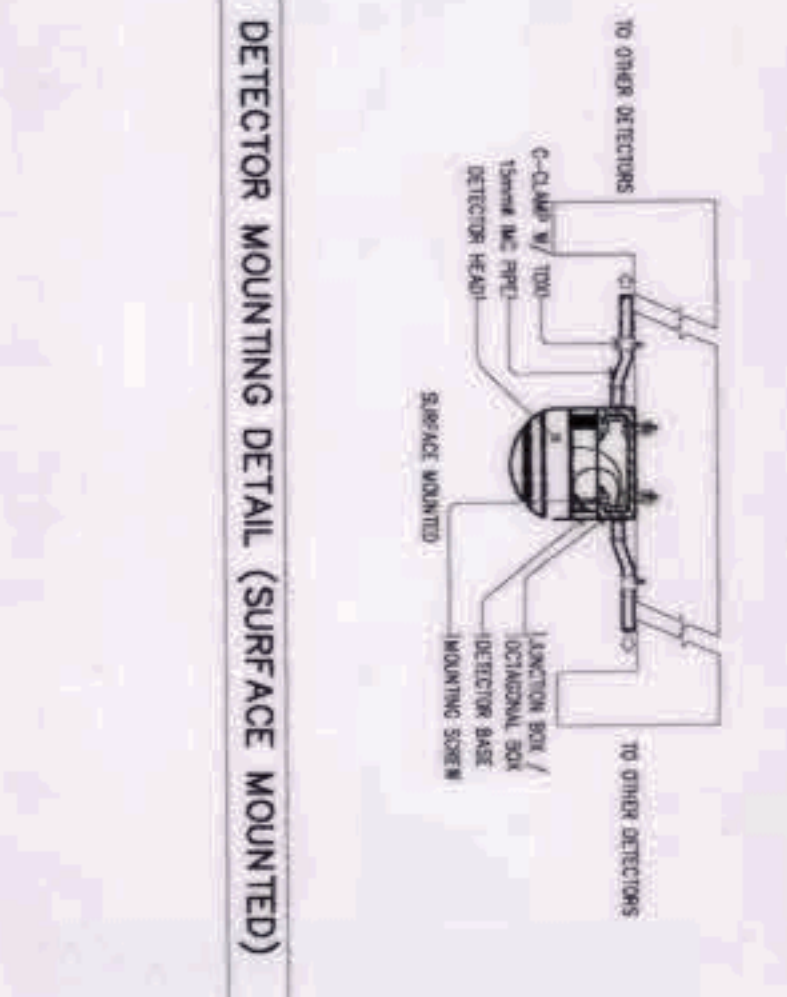
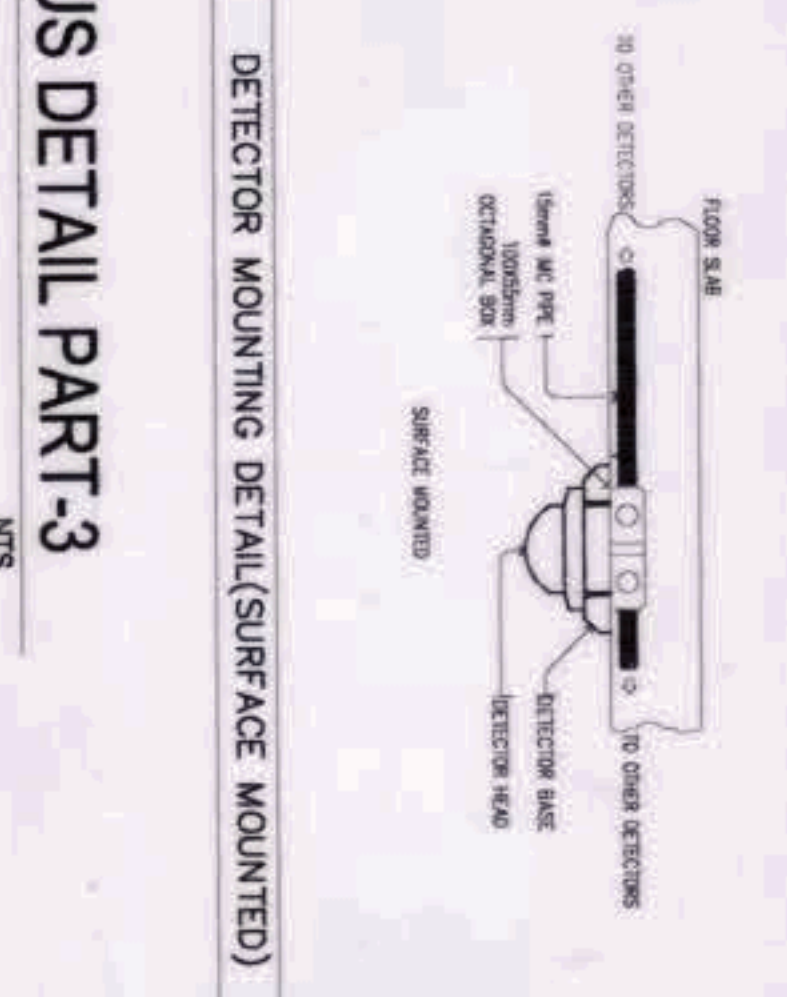
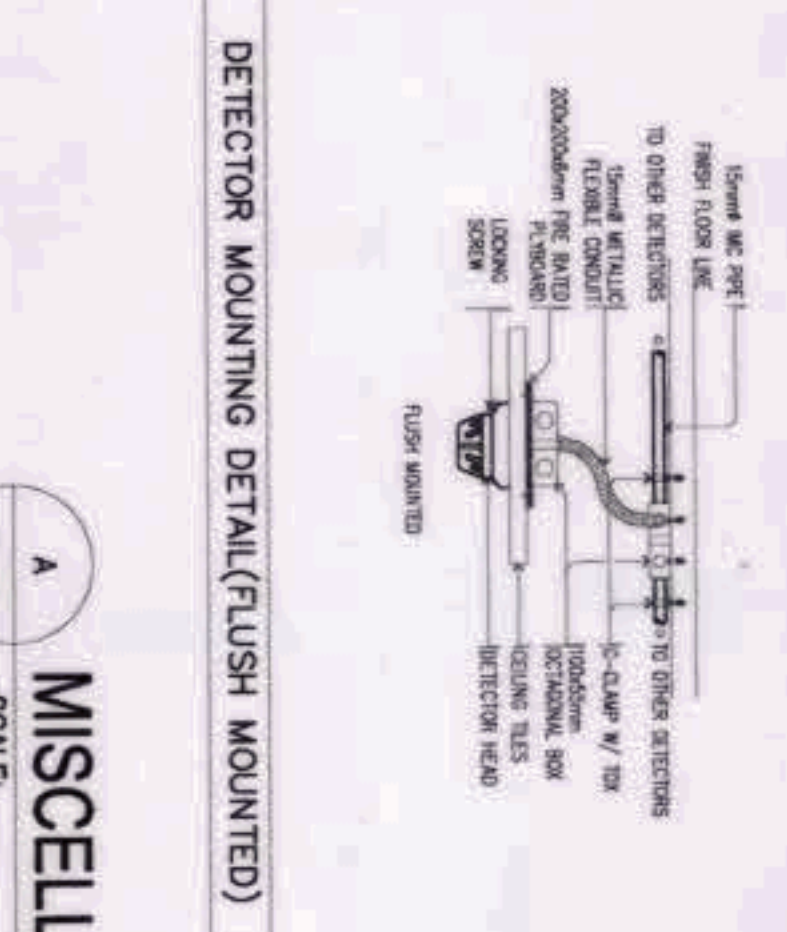
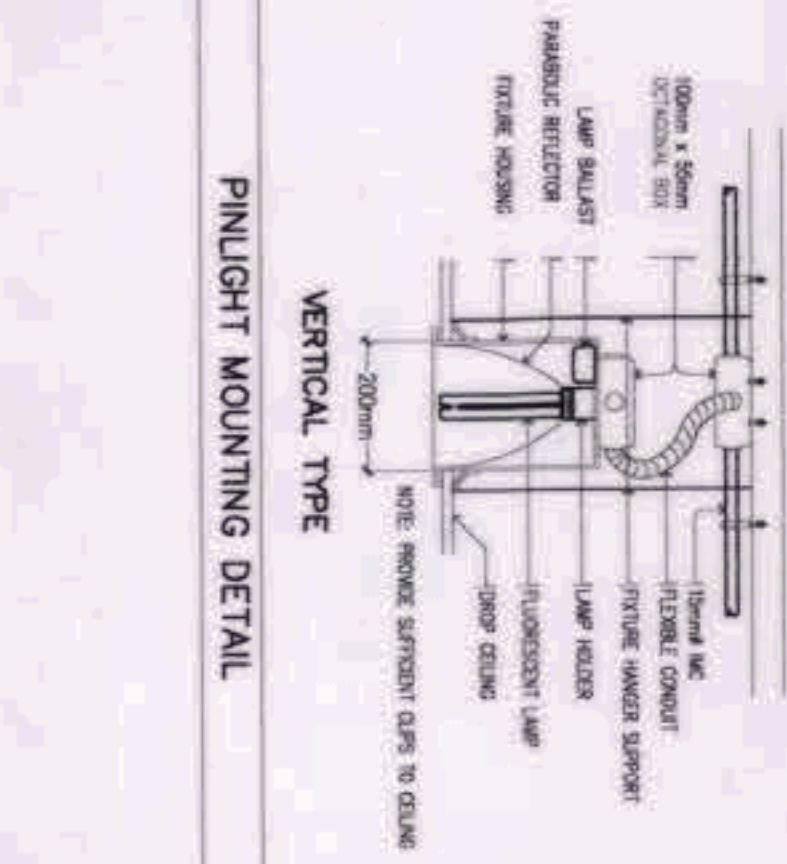
GROUNDING BUS DETAIL

PINLIGHT MOUNTING DETAIL

DETECTOR MOUNTING DETAIL (FLUSH MOUNTED)

DETECTOR MOUNTING DETAIL (SURFACE MOUNTED)

DETECTOR MOUNTING DETAIL (SURFACE MOUNTED)



MISCELLANEOUS DETAIL PART-3  
SCALE: 1:200

GRAPHIC SCALE:



OWNER: NSAC PHASE 1 JV COMPANY

PREPARED BY:

REVIEWED AND VALIDATED BY:

SUBMITTED BY:

CERTIFIED BY: INDEPENDENT CONSULTANT

PROJECT TITLE:

SHEET NO.:

BCDA  
VENENCO B. OZON  
PRESIDENT

Miscellaneous Detail  
PATRICK NICHOLAS P. DAVID  
PRESIDENT

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1555 E. Rodriguez St., Avenida Caden, Quezon City  
JESUS V. HERBAS  
PROJECT MANAGER

FILIPINAS DRAVO CORPORATION  
Architectural & Engineering Consultants  
Alfredo B. Herbas  
PROJECT MANAGER

BANDAR HEBAT BUILDERS, INC.  
ISMAEL DAVID  
PRESIDENT

TCCI ENGINEERS  
VIRLILLO A. MADRADO  
PRESIDENT/CEO

AS-BUILT DRAWING  
NSAC PHASE 1A  
AQUATIC CENTER  
NEW CLARK CITY, CAPAS, TARLAC

MISCELLANEOUS DETAIL  
PART-3  
EE-19

NOTE:  
The Designer shall be held responsible for the accuracy of the information provided in this drawing. The Designer shall be held responsible for the accuracy of the information provided in this drawing. The Designer shall be held responsible for the accuracy of the information provided in this drawing.