

PHILIPPINE BIDDING DOCUMENTS



**Name of Project/Location : Rewiring of Feeder
Lines and Replacement of Old Panelboards
at PCIST, Brgy. Manggahan, Pasig City**

Approved Budget for the Contract: P 6,972,091.09

Government of the Republic of the Philippines

**Sixth Edition
July 2020**

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission,*” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.



Section I. Invitation to Bid

Invitation to Bid for **Rewiring of Feeder Lines and Replacement of Old Panelboards at PCIST, Brgy. Manggahan, Pasig City.**

1. The City Government of Pasig, through the Annual or Supplemental Budget, as approved by the Sanggunian intends to apply the sum of **PHP 6,972,091.09** being the Approved Budget for the Contract (ABC) to payments under the contract **Rewiring of Feeder Lines and Replacement of Old Panelboards at PCIST, Brgy. Manggahan, Pasig City**. Bids received in excess of the ABC for each lot shall be automatically rejected at bid opening.
2. The City Government of Pasig now invites bids for the above Procurement Project. Completion of the Works is required **120 calendar days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from City Government of Pasig and inspect the Bidding Documents at the address given below from 8:00 A.M. to 5:00 P.M. office hours.
5. A complete set of Bidding Documents may be acquired by interested bidders on **April 19, 2023** from given address and website/s below *and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of PHP 10,000.00*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.
6. The City Government of Pasig will hold a Pre-Bid Conference¹ on **May 3, 2023, 1:30 P.M.**, at **7th Floor Meeting Room, Pasig City Hall** which shall be open to prospective bidders.
7. **Bids must be duly received by the Procurement Management Office (BAC Secretariat Office) through manual submission at the office address as indicated below, on or before 9:30 A.M. of May 15, 2023.** Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
9. Bid opening shall be on **May 15, 2023 at 10:00 A.M.** at the given address below **7th Floor Meeting Room, Pasig City Hall**. Bids will be opened in the presence of the bidders’ representatives who choose to attend the activity.

10. The address for submission of bids is at the Procurement Management Office (BAC Secretariat Office), 4th Floor Pasig City Hall Caruncho Avenue, San Nicolas Pasig City. The deadline for submission of bids is on or before 9:30 A.M. of May 15, 2023.

Each Bidder shall submit ONE (1) SEALED MOTHER ENVELOPE containing:

1. ORIGINAL (SEALED AND LABELED)

- 1.1. Hard Copy Original Technical Components and
- 1.2. Hard Copy Original Financial Components and
- 1.3 One (1) **USB Flash Drive** containing scanned P.D.F. Documents of the Original Technical Components and Original Financial Components.

2. COPY 1 (SEALED AND LABELED)

- 2.1. One (1) **USB Flash Drive** or **CD** sealed and labeled as “**COPY 1**” containing scanned P.D.F Documents of Technical and Financial Components.

11. The **City Government of Pasig** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

ATTY. PONCE MIGUEL D. LOPEZ
Officer in Charge, Procurement Management Office
CITY GOVERNMENT OF PASIG
Procurement Management Office, 4th Floor, Pasig City Hall,
Caruncho Ave., San Nicolas Pasig City
bidsandawards@pasigcity.gov.ph
8643-1111 loc. 1461

13. You may visit the following websites:

PS-Philgeps Website
Pasig City Website

April 19, 2023

ATTY. JOSEPHINE C. LATI-BAGAOISAN
BAC Chairperson

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, **City Government of Pasig** invites Bids for the [Rewiring of Feeder Lines and Replacement of Old Panelboards at PCIST, Brgy. Manggahan, Pasig City](#), with Project Identification Number [PB-05-15-2023-07](#)

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for [CY 2023](#) in the amount of [PHP 6,972,091.09](#).

2.2. The source of funding is:

LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the BDS.
- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

- 7.1. The Procuring Entity has prescribed that:
 - a. Subcontracting is not allowed.
- 7.2. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

14.2. *Payment of the contract price shall be made in:*

- a. Philippine Pesos

15. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

15.2. The Bid and bid security shall be valid until **120 calendar days**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause																			
5.2	<p>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:</p> <p><u>Rewiring of Feeder Lines and Replacement of Old Panelboards, Building: All types including school buildings, hospital, airport terminal building, post offices, market, housing, multi-storey building, and related structures except under conditions provided under the rules (Contractors under Small A and Small B categories without similar experience on the contract to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost (ARCC) of their registration based on the guidelines as prescribed by the PCAB).</u></p>																		
7.1	Subcontracting is not allowed.																		
10.3	A valid Philippine Contractors Accreditation Board (PCAB) license and registration for Size Range – <u>Small B- Building and Industrial Plant</u> License at least Category: <u>General Building -C & D</u>																		
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">KEY PERSONNEL</th> <th style="text-align: center;">QTY</th> <th style="text-align: center;">GENERAL EXPERIENCE</th> <th style="text-align: center;">RELEVANT EXPERIENCE</th> </tr> </thead> <tbody> <tr> <td>Electrical Engineer</td> <td style="text-align: center;">1</td> <td>At least 1 year experience on construction</td> <td>At least 1 year experience on electrical rehabilitation/ upgrading works</td> </tr> <tr> <td>Electrician</td> <td style="text-align: center;">2</td> <td>At least 1 year experience on construction</td> <td>At least 1 year experience on electrical rehabilitation/ upgrading works</td> </tr> <tr> <td>Laborer/Helper</td> <td style="text-align: center;">5</td> <td>Not required</td> <td>Not required</td> </tr> </tbody> </table>	KEY PERSONNEL	QTY	GENERAL EXPERIENCE	RELEVANT EXPERIENCE	Electrical Engineer	1	At least 1 year experience on construction	At least 1 year experience on electrical rehabilitation/ upgrading works	Electrician	2	At least 1 year experience on construction	At least 1 year experience on electrical rehabilitation/ upgrading works	Laborer/Helper	5	Not required	Not required		
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10.5	<p>The minimum major equipment requirements are the following:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Equipment</u></th> <th style="text-align: center;"><u>Capacity</u></th> <th style="text-align: center;"><u>Number of Units</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">EQUIPMENT</td> <td style="text-align: center;">CAPACITY</td> <td style="text-align: center;">NUMBER OF UNITS</td> </tr> <tr> <td>Electrical Tools</td> <td style="text-align: center;">7</td> <td style="text-align: center;">sets</td> </tr> <tr> <td>Multimeter</td> <td style="text-align: center;">1</td> <td style="text-align: center;">unit</td> </tr> <tr> <td>Megger</td> <td style="text-align: center;">1</td> <td style="text-align: center;">unit</td> </tr> <tr> <td>Ground Resistance</td> <td style="text-align: center;">1</td> <td style="text-align: center;">unit</td> </tr> </tbody> </table>	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>	EQUIPMENT	CAPACITY	NUMBER OF UNITS	Electrical Tools	7	sets	Multimeter	1	unit	Megger	1	unit	Ground Resistance	1	unit
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Ground Resistance	1	unit																	

	Tester		
12	No further instructions.		
15.1	<p>The bid security shall be in the form of a <i>Bid Securing Declaration</i> or any of the following forms and amounts:</p> <p>a. The amount of not less than <i>2% of ABC</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than <i>5% of ABC</i> if bid security is in Surety Bond.</p>		
19.2	No further instructions.		
20	<p>The following licenses/s and permit/s shall be required:</p> <ol style="list-style-type: none"> 1. Registration certificate form Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives of its equivalent document 1. Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located. 2. Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR) 3. Valid PCAB License Category: <u>General Building- C & D</u> and Registration of at least <u>Small B- Building and Industrial Plant</u> 4. The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission. 5. Latest income and business tax returns 6. Valid licenses issued by the Professional Regulatory Commission (PRC); <p>No other acceptable proof of registration is recognized.</p>		
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and PERT/CPM S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.		

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract

acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in ITB Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the SCC, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.

11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the SCC, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the SCC.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity’s Representative’s approval, the Procuring Entity’s Representative may withhold the amount stated in the SCC from payments due to the Contractor.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	The Intended Completion Date is <u>120 calendar days</u> .
3.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon the issuance of Notice to Proceed.
6	No further instructions.
7.2	<p><i>In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years.</i></p> <p><i>In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures: Five (5) years.</i></p> <p><i>In case of other structures, such as Bailey and wooden bridges, shallow wells, spring developments, and other similar structures: Two (2) years.</i></p>
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works to the Procuring Entity's Representative within ten (10) days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is one percent (1%).
13	Advance payment shall be made only upon the submission to and acceptance by the Procuring Entity. The amount of the advance payment is fifteen percent (15%) of the Contract price.
14	No further instructions.
15.1	If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals within thirty (30) calendar days from the completion of the project.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is one percent (1%) of the final contract amount.

Section VI. Specifications



Form No. : _____
 Date : _____
 Page No. : 1 of 3

Name of Project : **REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS**
 Location : **PCIST, MANGGAHAN PASIG CITY**
 Source of Funds : **MOOE** Calendar Days to Complete : **120 days**
 Issued Obligated Author : _____ Desirable Starting Date : _____

MINIMUM EQUIPMENT REQUIREMENT				TECHNICAL PERSONNEL REQUIRED			
DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.
ELECTRICIAN TOOLS	7	MEGGER	1	ELECTRICAL ENGINEER	1	LABORER/HELPER	5
MULTIMETER	1	GROUND RESISTANCE TESTER	1	ELECTRICIAN	2		

ESTIMATED COST OF PROPOSED WORK:

ITEM NO.	DESCRIPTION	% Wt.	QUANTITY	UNIT	UNIT COST	AMOUNT
1.0	MOBILIZATION AND DEMOBILIZATION	0.90%	1.00	lot		
2.0	PRELIMINARIES					
	- Temporary Barricade and Protection Net		50.00	lm		
	- Bunkhouse / Temporary Facilities		50.00	sq.m		
	- Occupational Safety and Health Program		4.00	mos		
	- Water and Electricity Consumption		4.00	mos		
	- Rental of Scaffoldings		45.00	sq.m		
		5.92%				
A	ELECTRICAL WORKS					
A.1	PANELBOARDS AND BREAKERS					
1.01	DISTRIBUTION PANELBOARD : (DP-WELDING)	0.78%	1.00	set		
	MAIN: 200AT, 250AF, 3Pole, MCCB, 50kAIC, Common Trip					
	BRANCHES: 2- 70AT, 100AF, 3P, 25kAIC, MCCB, COMMON TRIP					
	BRANCHES: 8- 70AT, 100AF, 2P, 50kAIC, MCCB, COMMON TRIP					
	BRANCHES: 6- 40AT, 100AF, 2P, 50kAIC, MCCB, COMMON TRIP					
	IN NEMA 1 ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING					
	TERMINAL BLOCKS, POWDER COATED, G.I. GAUGE #16,					
	Surface Mounted					
1.02	DISTRIBUTION PANELBOARD : (DP-AUTOMOTIVE)	0.62%	1.00	set		
	MAIN: 100AT, 100AF, 3P, MCCB, 35kAIC, Common Trip					
	BRANCHES: 3- 60AT, 100AF, 2P, 50kAIC, MCCB, COMMON TRIP					
	BRANCHES: 6- 40AT, 50AF, 2P, 18kAIC, MCCB, COMMON TRIP					
	BRANCHES: 3- 30AT, 50AF, 2P, 18kAIC, MCCB, COMMON TRIP					
	IN NEMA 1 ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING					
	TERMINAL BLOCKS, POWDER COATED, G.I. GAUGE #16,					
	Surface Mounted					
1.03	DISTRIBUTION PANELBOARD : (DP-AC/SL)	0.63%	1.00	set		
	MAIN: 100AT, 100AF, 3P, MCCB, 35kAIC, Common Trip					
	BRANCHES: 2- 60AT, 100AF, 2P, 22kAIC, MCCB, COMMON TRIP					
	BRANCHES: 10- 30AT, 50AF, 2P, 18kAIC, MCCB, COMMON TRIP					
	IN NEMA 1 ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING					
	TERMINAL BLOCKS, POWDER COATED, G.I. GAUGE #16,					
	Surface Mounted					
1.04	MECHANICAL PANELBOARD : (MP-F2, MP-D2)	1.25%	2.00	sets		
	MAIN: 100AT, 100AF, 3P, MCCB, 35kAIC, Common Trip					
	BRANCHES: 3- 60AT, 100AF, 2P, 22kAIC, MCCB, COMMON TRIP					
	BRANCHES: 6- 40AT, 50AF, 2P, 22kAIC, MCCB, COMMON TRIP					
	BRANCHES: 3- 30AT, 50AF, 2P, 18kAIC, MCCB, COMMON TRIP					
	IN NEMA 1 ENCLOSURE, BOLT-ON TYPE, WITH GROUNDING					
	TERMINAL BLOCKS, POWDER COATED, G.I. GAUGE #16,					
	Surface Mounted					
1.05	ECB :200AT, 250AF, 3P, MCCB, 25kAIC COMMON TRIP	0.21%	1.00	set		
	IN NEMA 3R ENCLOSURE					
1.06	ECB :70AT, 100AF, 3P, MCCB, 25kAIC COMMON TRIP	0.21%	2.00	set		
	IN NEMA 3R ENCLOSURE					
1.07	ECB :70AT, 100AF, 2P, MCCB, 25kAIC COMMON TRIP	0.54%	6.00	set		
	IN NEMA 3R ENCLOSURE					
1.07	ECB :60AT, 100AF, 2P, MCCB, 25kAIC COMMON TRIP	0.99%	11.00	set		
	IN NEMA 3R ENCLOSURE					
1.08	ECB :40AT,100AF, 2P, MCCB, COMMON TRIP IN NEMA 3R ENCLOSURE	1.47%	18.00	set		
1.09	ECB :30AT,50AF, 2P, MCCB, COMMON TRIP IN NEMA 3R ENCLOSURE	1.54%	19.00	set		
1.10	Copper Busbar with bolt and nut for :200AT,250AF, 3P, MCCB, 25kAIC COMMON TRIP	0.05%	3.00	sets		
1.11	Copper Busbar with bolt and nut for Busbar :125AT, 225AF, 3P, MCCB, 25kAIC COMMON TRIP	0.03%	3.00	sets		
1.12	Copper Busbar with bolt and nut for Busbar :100AT, 225AF, 3P, MCCB, 25kAIC COMMON TRIP	0.02%	3.00	sets		
1.13	BREAKER :200AT, 250AF, 3P, MCCB, 25kAIC COMMON TRIP	0.17%	1.00	set		
1.14	BREAKER :125AT, 250AF, 3P, MCCB, 25kAIC COMMON TRIP	0.16%	1.00	set		
1.15	BREAKER :100AT, 100AF, 3P, MCCB, 25kAIC COMMON TRIP	0.27%	4.00	sets		
1.16	Other Accessories (bolt, nuts , tox, screws etc..)	0.25%	71.00	sets		



Name of Project : REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS
Location : PCIST, MANGGAHAN PASIG CITY

ESTIMATED COST OF PROPOSED WORK:

ITEM NO.	DESCRIPTION	% WL.	QUANTITY	UNIT	UNIT COST	AMOUNT
A.2	WIRES, CONDUITS, FIXTURES AND BOXES					
2.01	100.0 mm ² THHN Stranded	1.85%	111.00	mtrs		
2.02	50.0 mm ² THHN Stranded	0.42%	40.00	mtrs		
2.03	38.0 mm ² THHN Stranded	0.69%	85.00	mtrs		
2.04	30.0 mm ² THHN Stranded	1.88%	306.00	mtrs		
2.05	22 mm ² THHN Stranded	1.12%	237.00	mtrs		
2.06	14 mm ² THHN Stranded	0.12%	40.00	mtrs		
2.07	8.0 mm ² THHN Stranded	2.28%	1304.00	mtrs		
2.08	5.5 mm ² THHN Stranded	0.67%	560.00	mtrs		
2.09	3.5 mm ² THHN Stranded	1.50%	1947.00	mtrs		
2.10	2.0 mm ² THHN Stranded	0.15%	320.00	mtrs		
2.11	80 mm ϕ (inside diameter) PVC x 10ft. sch. 40 thick wall	0.29%	13.00	lgt		
2.12	50 mm ϕ (inside diameter) PVC x 10ft. sch. 40 thick wall	0.08%	10.00	lgt		
2.13	40 mm ϕ (inside diameter) PVC x 10ft. sch. 40 thick wall	0.21%	35.00	lgt		
2.14	32 mm ϕ (inside diameter) PVC x 10ft. sch. 40 thick wall	0.15%	40.00	lgt		
2.15	25 mm ϕ (inside diameter) PVC x 10ft. sch. 40 thick wall	1.17%	410.00	lgt		
2.16	Junction Box, deep type, with cover and ground terminal, G.I. Gauge #16	0.01%	10.00	pcs		
2.06	Floor pop-out socket/ Outlet, 16Amps Rating with grounding universal type, cover plate, wide type, white	0.35%	15.00	pcs		
2.17	Tox and screw no. 6	0.02%	3.00	box		
2.18	PVC adapter, 3/4" ϕ with locknut and bushing	0.06%	100.00	sets		
2.19	PVC adapter, 1/2" ϕ with locknut and bushing	0.03%	70.00	sets		
2.20	Vulcaseal, 1/2 liter	0.02%	2.00	cans		
2.21	Metal Clamp 1/2" ϕ 2 holes	0.02%	200.00	pcs		
2.22	G.I Wires #16	0.01%	5.00	kilos		
2.23	Electrical tape	0.02%	15.00	rolls		
2.24	Rubber Tape	0.03%	6.00	rolls		
2.25	Other Accessories (hangers and support, locknut and bushing, clamp, water stop, Elasto meric, etc.)	0.18%	20.00	sets		
	Replacement of Busted Lights					
2.26	Tube light, 9 watts, LED T8, 600mm	0.98%	310.00	pcs		
2.27	LED BULB, 12watts, daylight	0.37%	126.00	pcs		
2.28	60W, HI-BAY LED, 90 Degrees beam angle, Day light	0.90%	20.00	pcs		
2.29	Two Gang Switch, Wide Type, 10Amps rating, with cover plate, Panasonic, Toshiba, National or any approved equivalent	0.08%	20.00	pcs		
	Perimeter Lighting/ Security Lighting System					
2.30	Weather Proof Lighting Fixtures, 2 x 18watts Led Lamp Tube, Daylight, 150 Lumens Per watt or Higher.	4.00%	53.00	sets		
2.31	Wall Bracket (Fabricated) G.I. Pipe, 3/4" ϕ , Painted with Red Oxide Primer and Silver Finished Paint Color.	0.40%	45.00	assembly		
2.32	STEEL TAPERED lamp Post w/ anchor bolt washer / nut, zinc electroplated with red oxide and aluminum paint 6" x 3" x 20ft, with 4ft single arm	1.45%	4.00	units		
2.33	LED Roadway luminaire 150W, 50k hrs life, lumens output - 18,000 lumens, 120 lumens/watt ; 15KV two stage protection, programmable w/ dimmer driver options ; CRI-70 min, color temperature - 4000k 220-240 volts, 50/60 Hz @ 95% PF ; High Pressure Die cast aluminum casing, with heat resistant silicone rubber gasket, tempered glass with gray paint 492x295	1.66%	4.00	units		
	Civil works for Street Lights					
2.34	Concrete Pedestal for tapered Post	0.81%	4.00	units		

ITEM NO.	DESCRIPTION	% WL.	QUANTITY	UNIT	UNIT COST	AMOUNT
B	AIRCON WORKS					
1.00	SPLIT TYPE AIRCON					
1.01	4.0HP CEILING CASSETTE, INVERTER TYPE 220V, 1P, 60HZ	45.18%	13.00	sets		
1.02	2.0HP WALL MOUNTED, INVERTER TYPE 220V, 1P, 60HZ	2.07%	2.00	sets		
1.03	1.5HP WALL MOUNTED, INVERTER TYPE 220V, 1P, 60HZ	0.81%	1.00	sets		
	TOTAL B.1					

ITEM NO.	DESCRIPTION	% WL.	QUANTITY	UNIT	UNIT COST	AMOUNT
2.00	REFRIGERANT WORKS					
	Refrigerant Copper Tubing, Hard Drawn, Type L					
2.01	1/2" ϕ	0.33%	184.00	li. m		
2.02	5/8" ϕ	0.78%	311.00	li. m		
2.03	3/8" ϕ	0.22%	202.00	li. m		
2.04	1/4" ϕ	0.01%	10.00	li. m		
	Refrigerant Copper Fittings (Long radius Elbow 90°)					
2.05	1/2" ϕ	0.02%	4.00	pcs		
2.06	5/8" ϕ	0.29%	39.00	pcs		
2.07	3/8" ϕ	0.21%	44.00	pcs		
2.08	1/4" ϕ	0.01%	2.00	pcs		



Name of Project : REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS
 Location : PCIST, MANGGAHAN PASIG CITY

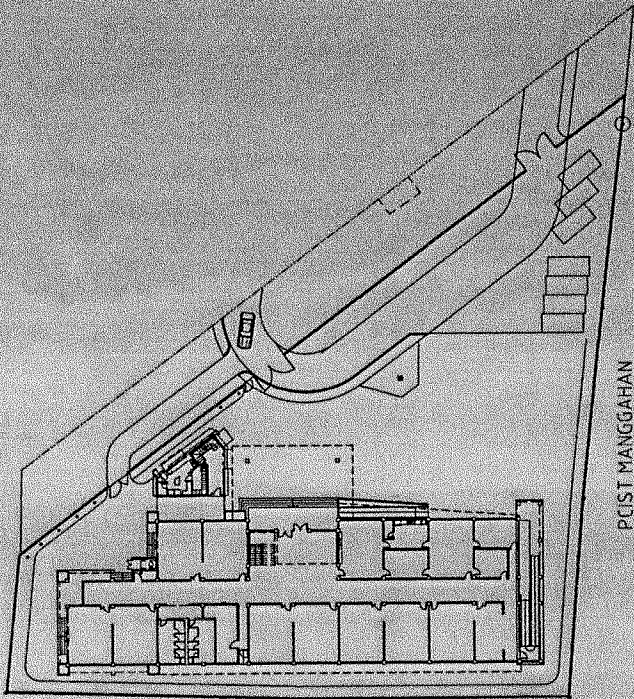
ESTIMATED COST OF PROPOSED WORK:

Closed Cell Elastomeric Rubber Insulation with thickness of 1 inch				
2.09	1/2" Ø	0.70%	118.00	pcs
2.10	5/8" Ø	1.11%	171.00	pcs
2.11	3/8" Ø	1.23%	228.00	pcs
2.12	1/4" Ø	0.13%	25.00	pcs
2.13	Polythelene Tape (white)	0.69%	50.00	rolls
Condensate Drain System				
2.14	25mm Ø, PVC S-Blue	0.11%	50.00	lgt/10ft
2.15	Other accessories (cement , pvc tee , pvc Elbow and others..)	0.06%	22.00	sets
2.16	25mm Ø, rubber insulation	0.32%	67.00	pcs
2.17	Polythelene Tape (blue)	0.41%	30.00	rolls
Hangers and Support Sytem				
2.18	Fullthreaded 3/8"	1.02%	38.00	pcs
2.19	Dynabolt 3/8"	0.03%	12.00	pcs
2.20	Metal clamp 4"	0.05%	18.00	pcs
2.21	Loop hanger (refrigerant and drain) 2"Ø 1 1/2"	0.10%	50.00	pcs
2.22	Spring (indoor)	0.50%	132.00	pcs
2.23	Metal clamp 2"	0.10%	50.00	pcs
2.24	Bolt and nut 3/8'	0.13%	100.00	pcs
2.25	Cutwalk ,for outdoor location ,using angle bar,flat bar , welding rod and other materials .with 1.2m wide and height)	0.72%	16.00	sets
Consumables				
2.27	Mapp gas	0.27%	28.00	tank
2.28	Silver Rod	0.24%	150.00	pcs
2.29	Charging Freon, R410a	0.16%	20.00	kilos
2.30	Charging Freon, R32	0.05%	5.00	kilos
2.31	Nitrogen	0.10%	5.00	tank
2.32	Other accessories	0.02%	1.00	lot
2.33	PVC pipe 1/2" dia.	0.22%	117.00	pcs
2.34	Royal Cord 1.25 mm, 4C PHILFLEX (Transmission wire)	1.57%	350.00	meters
2.35	Square Box 4x4, deep type, G.I. Gauge #16	0.01%	6.00	pcs
2.36	Other Accessories	0.03%	16.00	sets
		100.00%		

Section VII. Drawings

GENERAL NOTES AND SPECIFICATIONS:

- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER UTILITY.
- ALL MATERIALS TO BE USED SHALL BE NEW AND INSTALLED IN APPLICATIONS FOR WHICH THEY ARE INTENDED.
- ALL METALLIC CONDUIT, PANELBOARDS AND EQUIPMENTS SHALL BE PROPERLY GROUNDED AND BONDED BY MEANS OF COPPER STRAPS. CONNECTION TO GROUND ROD SHALL BE EXPOSED READILY ACCESSIBLE FOR INSPECTION.
- LIGHTING AND POWER BRANCH CIRCUIT WITHOUT DESIGNATION SHALL BE 3-WIRE, 2-3.5mm² THHN + 1 - 2.0mm² THHN IN 15mmØ PVC CONDUIT.
- MINIMUM SIZE OF WIRE SHALL BE 3.5mm² THHN IN 15mmØ CONDUIT UNLESS OTHERWISE SHOWN ON PLANS.
- ALL BOXES SHALL BE MADE OF CODE GAUGE STEEL WITH ZINC CHROMATE PROTECTION.
- ALL PANEL BOARD SHALL BE OF DEADFRONT CONSTRUCTION FINISH WITH TRIM. FOR FLUSH OR SURFACED MOUNTING THE TRIM FOR ALL PANEL BOARD SHALL BE FINISHED IN INDUSTRIAL GRAY POWDER COAT.
- PANEL BOARD MAIN BUS SHALL BE EQUAL OR EXCEED OVER CURRENT PROTECTIVE DEVICE IMMEDIATELY AHEAD OF IT.
- ALL CONDUIT EMBEDDED ON SLAB SHALL BE POLYVINYL CHLORIDE SCHEDULE 40 WITHOUT EXEMPTION. **FLEXIBLE CONDUIT IS NOT ALLOWED.**
- ALL RECEPTACLE OUTLETS SHALL BE PROPERLY GROUNDED TO THE BOX BY MEANS OF GROUNDING LUGS.
- PULL-BOXES SHALL BE PROVIDED BY THE CONTRACTOR, WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE WERE NOT INDICATED ON THE PLANS.
- THE ELECTRICAL CONTRACTOR SHALL SUBMIT SAMPLE OF MATERIALS, EQUIPMENT AND SHOP DRAWINGS TO BE USED FOR THIS PROJECT BEFORE INSTALLATION SHALL BE DONE. FOR FINAL APPROVAL OF ARCHITECT / ENGINEER.**
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.



PUST MANGGAHAN
E SITE DEVELOPMENT PLAN
1:100
STATE

LEGEND:

- 2 x 1. 10watts, LED Lamp Tube, Daylight, Polycarbonate Housing Frame, Waterproof 100 - 264watts, 150lumens per watt or higher, 1000mm x 120mm x 1.00mm
- 2 x 1. 10watts, LED Lamp Tube, Daylight, Polycarbonate Housing Frame, Microgroove aluminum indicator, 30 - 40K, burning hours, 100 - 264watts, 150lumens per watt or higher, 1000mm x 120mm x 1.00mm
- 2 x 2. 6watts, LED Lamp Tube, Daylight, Polycarbonate Housing Frame, Microgroove aluminum indicator, 30 - 40K, burning hours, 100 - 264watts, 150lumens per watt or higher, 1000mm x 120mm x 1.00mm
- 1 x 1. 10watts, LED Lamp Tube, Daylight, Polycarbonate Housing Frame, Waterproof 100 - 264watts, 150lumens per watt or higher
- Overlapping LED Striplights, Omnidirectional, 100watts, 80 lumens per watt or higher, with transformer cover, 90 lumens per watt or higher
- 2 x 1. 10watts, LED Lamp Tube, Daylight, Polycarbonate Housing Frame, Waterproof 100 - 264watts, 150lumens per watt or higher
- 1 x 1. 10watts, LED Lamp Tube, Daylight, Polycarbonate Housing Frame, Waterproof 100 - 264watts, 150lumens per watt or higher

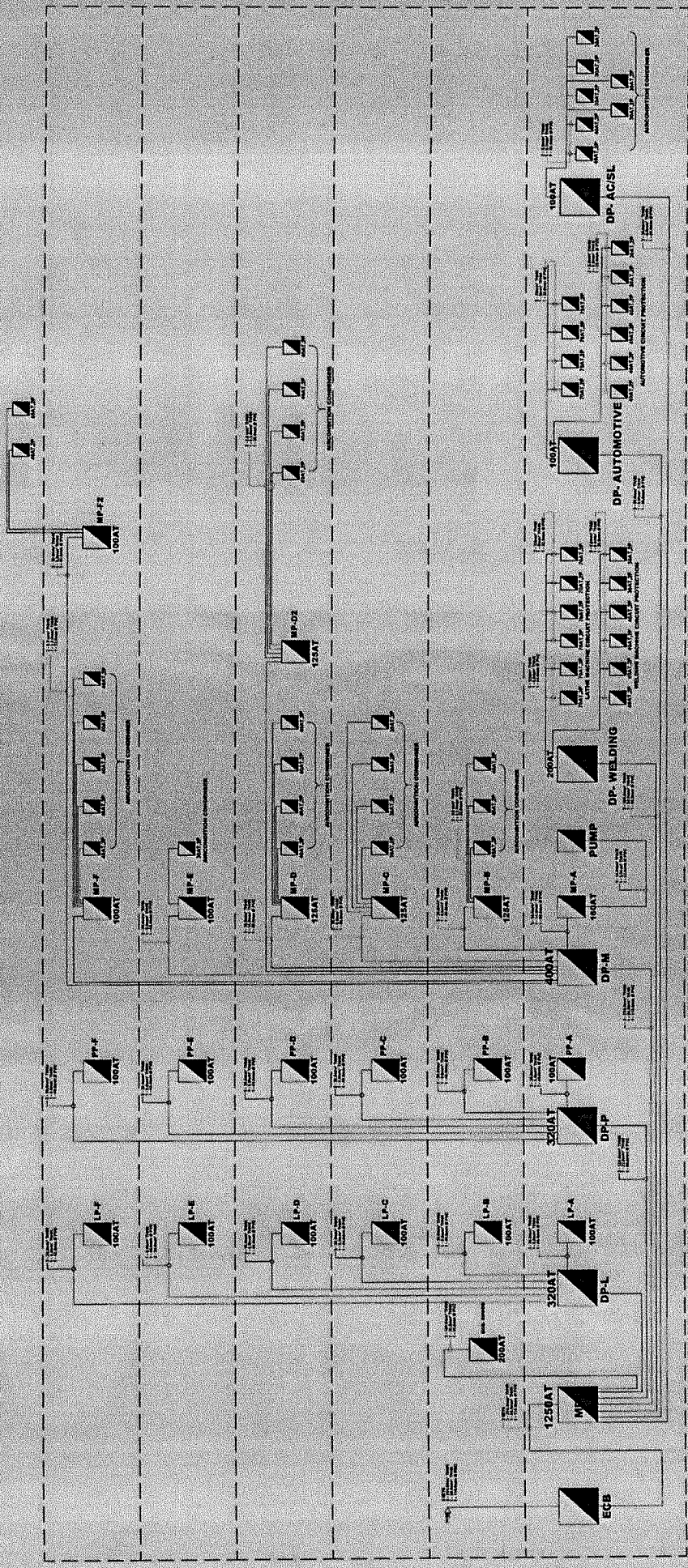
- S1 One Gang Switch, 15ampere rating, Wide Type with cover plate, Toggle, 1" square, National or any approved equivalent
- S2 Two Gang Switch, 15ampere rating, Wide Type with cover plate, Toggle, 1" square, National or any approved equivalent
- S3 Three Gang Switch, 15ampere rating, Wide Type with cover plate, Toggle, 1" square, National or any approved equivalent
- 3WS Three Way Switch, 15ampere rating, Wide Type with cover plate, Toggle, 1" square, National or any approved equivalent
- Exhaust Fan, 14" x 14", Ceiling Cassette Type complete with flexible duct and exhaust hood
- Fan Coil Unit (FCU) / Airconditioner indoor Unit Wall Mount, Inverter Type
- Air Ducted Conditioning Unit (ACCU) / Airconditioner Outdoor Unit Wall Mount, Inverter Type

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p> <p>LOCATION: PUST, MANGGAHAN, PASIG CITY</p>	<p>DESIGNED BY: ENGR. EDUARDO G. BARRIGADA, JR. REGISTERED ELECTRICAL ENGINEER</p>	<p>CHECKED BY: ENGR. JORGE L. TIZON REGISTERED ELECTRICAL ENGINEER</p>	<p>REVIEWED BY: ENGR. MARCELO B. PRIDENCIO REGISTERED ELECTRICAL ENGINEER</p>	<p>RECOMMENDED APPROVAL: ENGR. ARTAZHERBY GERONIMO REGISTERED ELECTRICAL ENGINEER</p>	<p>APPROVED BY: VICTOR M. TRIGAS N. LOTTO, 2 CITY MAYOR</p>	<p>SHEET NO. E 116</p>
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REMARKS/NOTES:

- NO ALTERATION IN PLAN AND SPECIFICATION SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND ENGINEER.
- IF IN ANY CASE THE CONSTRUCTION IS INCLUDED IN THE CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY CHANGES TO BE MADE IN THE FINAL DESIGN AND APPROVAL OF THE ARCHITECT AND ENGINEER.
- IN CASE OF DISCREPANCY IN THE DRAWING OR DRAWING THE MATTER SHALL BE SUBMITTED TO THE ARCHITECT FOR HIS/HER DECISION. ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.
- ANY VIOLATION OF THIS INSTRUCTION SHALL BE CONSIDERED AT THE EXPENSE OF THE CONTRACTOR.
- PROJECT IN-CHARGE INSPECTOR MUST CHOOSE THE PROJECT AT ALL TIMES AND BE RESPONSIBLE FOR ALL ACTS OF NON-COMPLYING ACTIVITIES.
- CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEERS WHO WILL BE RESPONSIBLE FOR THE PROJECT.

CONTRACTOR & ACCEPTED BY: _____
C O N T R A C T O R



SINGLE LINE DIAGRAM

 <p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE: REPAIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p> <p>LOCATION: POST MANGUWAL, PASIG CITY</p>	<p>ELECTRICAL:</p> <p>ENGR. EMANUEL G. BARRERA, JR. REGISTERED ELECTRICAL ENGINEER</p>	<p>CHECKED BY:</p> <p>ENGR. JESSE L. TIRONA REGISTERED ELECTRICAL ENGINEER</p>	<p>REVIEWED BY:</p> <p>ENGR. JESSE L. TIRONA REGISTERED ELECTRICAL ENGINEER</p>	<p>RECOMMENDING APPROVAL:</p> <p>ENGR. ARTAERIE V. GERONIMO REGISTERED ELECTRICAL ENGINEER</p>	<p>APPROVED BY:</p> <p>VICTOR M. KEGIE, PE, ETO TO REGISTERED ELECTRICAL ENGINEER</p>	<p>SHEET CONTENT: AS - SHOWN</p> <p>SHEET NO: E 216</p>
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IMPORTANT NOTES:

- NO ALTERATION IN PLAN AND SPECIFICATIONS SHALL BE MADE WITHOUT THE APPROVAL OF THE ENGINEER AND OWNER.
- IN ALL CASES THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. ANY DAMAGE TO THESE UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- IN CASE OF DISCREPANCY IN THE FIGURE OR DIMENSIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND ENGINEER. ANY ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.
- ANY VIOLATION OF THE INSTRUMENT SHALL BE CONSIDERED AS A BREACH OF CONTRACT.
- PROJECT IN CHARGE / INSPECTOR MUST BE PRESENT AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
- CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEER WHO WILL BE RESPONSIBLE FOR THE PROJECT.

CONFORME & ACCEPTED BY:
C O N T R A C T O R

LOAD SCHEDULE - DP-ACSL (Distribution Panelboard @1st Floor)

CIRCUIT NO.	DESCRIPTION	VA	VOLT	AMPS LOAD				CIRCUIT RATING	TRADE SIZE	CONDUIT
				30	AB	BC	CA			
1	ACU-1HP	5175.00	230	22.50			100	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
2	ACU-1.5HP	2000.00	230	10.00			50	2	2 - 5.0mm ² THHN + 1 - 3.0mm ² THHN	25mm ² PVC
3	ACU-1.5HP	5175.00	230	22.50			100	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
4	LEDCE LIGHTS	600.00	230	3.48			50	2	2 - 5.0mm ² THHN + 1 - 3.0mm ² THHN	25mm ² PVC
5	ACU-2.0HP	2700.00	230	15.00			50	2	2 - 5.0mm ² THHN + 1 - 3.0mm ² THHN	25mm ² PVC
6	ACU-3.0HP	2700.00	230	15.00			50	2	2 - 5.0mm ² THHN + 1 - 3.0mm ² THHN	25mm ² PVC
7	STREET LIGHTS	420.00	230	1.74			50	2	2 - 3.0mm ² THHN + 1 - 2.0mm ² THHN	25mm ² PVC
8	SPARE	230	230				50	2		
9	PERIMETER LIGHTS	1300.00	230	5.22			50	2	2 - 3.0mm ² THHN + 1 - 2.0mm ² THHN	25mm ² PVC
10	PERIMETER LIGHTS	1100.00	230	4.79			50	2	2 - 3.0mm ² THHN + 1 - 2.0mm ² THHN	25mm ² PVC
11	PERIMETER LIGHTS	2200.00	230	9.57			50	2	2 - 3.0mm ² THHN + 1 - 2.0mm ² THHN	25mm ² PVC
12	SPARE	230	230				50	2		
MAIN CIRCUIT				56.26	230	34.66	35.96	33.97		
COMPUTATION OF LOAD				1. x = 87.94 AMPS						
MAIN FEEDER WIRE				USE: 3 - 30.0mm ² THHN 1 - 8.0mm ² THHN IN 40mm ² PVC						

LOAD SCHEDULE - DP-Automotive (Distribution Panelboard @1st Floor)

CIRCUIT NO.	DESCRIPTION	VA	VOLT	AMPS LOAD				CIRCUIT RATING	TRADE SIZE	CONDUIT
				30	AB	BC	CA			
1	AUTOMOTIVE-1	5175.00	230	22.50			100	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
2	AUTOMOTIVE-2	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
3	AUTOMOTIVE-3	5175.00	230	22.50			100	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
4	AUTOMOTIVE-4	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
5	AUTOMOTIVE-5	5175.00	230	22.50			100	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
6	AUTOMOTIVE-6	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
7	AUTOMOTIVE-7	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
8	SPARE	230	230				50	2		
9	AUTOMOTIVE-8	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
10	SPARE	230	230				50	2		
11	AUTOMOTIVE-9	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
12	SPARE	230	230				50	2		
MAIN CIRCUIT				48.00	230	48.00	48.00			
COMPUTATION OF LOAD				1. x = 88.07 AMPS						
MAIN FEEDER WIRE				USE: 3 - 30.0mm ² THHN 1 - 8.0mm ² THHN IN 40mm ² PVC						

LOAD SCHEDULE - DP-WELDING (Distribution Panelboard @1st Floor)

CIRCUIT NO.	DESCRIPTION	VA	VOLT	AMPS LOAD				CIRCUIT RATING	TRADE SIZE	CONDUIT
				30	AB	BC	CA			
1	WELDING MACHINE	5175.00	230	22.50			100	3	3 - 22.0mm ² THHN + 1 - 8.0mm ² THHN	40mm ² PVC
2	WELDING MACHINE	5175.00	230	22.50			100	3	3 - 22.0mm ² THHN + 1 - 8.0mm ² THHN	40mm ² PVC
3	WELDING MACHINE	5175.00	230	22.50			100	2	2 - 22.0mm ² THHN + 1 - 8.0mm ² THHN	40mm ² PVC
4	WELDING MACHINE	5175.00	230	22.50			100	2	2 - 22.0mm ² THHN + 1 - 8.0mm ² THHN	40mm ² PVC
5	WELDING MACHINE	5175.00	230	22.50			100	2	2 - 22.0mm ² THHN + 1 - 8.0mm ² THHN	40mm ² PVC
6	WELDING MACHINE	5175.00	230	22.50			100	2	2 - 22.0mm ² THHN + 1 - 8.0mm ² THHN	40mm ² PVC
7	WELDING MACHINE	5175.00	230	22.50			100	2	2 - 22.0mm ² THHN + 1 - 8.0mm ² THHN	40mm ² PVC
8	WELDING MACHINE	5175.00	230	22.50			100	2	2 - 22.0mm ² THHN + 1 - 8.0mm ² THHN	40mm ² PVC
9	WELDING MACHINE	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
10	WELDING MACHINE	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
11	WELDING MACHINE	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
12	WELDING MACHINE	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
13	WELDING MACHINE	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
14	WELDING MACHINE	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
MAIN CIRCUIT				47.810	230	83.80	86.00			
COMPUTATION OF LOAD				1. x = 110.14 AMPS						
MAIN FEEDER WIRE				USE: 3 - 100.0mm ² THHN 1 - 8.0mm ² THHN IN 50mm ² PVC						

LOAD SCHEDULE - Mechanical Panelboard (MP-F2)

CIRCUIT NO.	DESCRIPTION	VA	VOLT	AMPS LOAD				CIRCUIT RATING	TRADE SIZE	CONDUIT
				30	AB	BC	CA			
1	ACU-1	5175.00	230	22.50			100	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
2	ACU-2	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
3	ACU-3	5175.00	230	22.50			100	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
4	ACU-4	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
5	ACU-5	5175.00	230	22.50			100	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
6	ACU-6	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
7	ACU-7	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
8	SPARE	230	230				50	2		
9	ACU-8	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
10	SPARE	230	230				50	2		
11	ACU-11	2700.00	230	12.00			50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	25mm ² PVC
12	SPARE	230	230				50	2		
MAIN CIRCUIT				41.100	230	46.50	44.99			
COMPUTATION OF LOAD				1. x = 88.17 AMPS						
MAIN FEEDER WIRE				USE: 3 - 30.0mm ² THHN 1 - 8.0mm ² THHN IN 40mm ² PVC						

REPUBLIC OF THE PHILIPPINES
CITY OF PASIG

**OFFICE OF THE MAYOR
ENGINEERING DEPARTMENT**

ELECTRICAL INFRASTRUCTURE SECTION

PROJECT TITLE:
**REWIRING OF FEEDER LINES AND
REPLACEMENT OF OLD
PANELBOARDS**

LOCATION: P.O. BOX 107, PASIG CITY

DESIGNED BY:
ENGR. EXPDARIO G. BARRIGA JR.
ELECTRICAL ENGINEER

CHECKED BY:
ENGR. JORGE LTORON
ELECTRICAL ENGINEER

RECOMMENDING APPROVAL:
ENGR. ARTA REYES V. GERONIMO
REGISTERED ELECTRICAL ENGINEER

APPROVED BY:
VICTOR K. REGIS JR.
CITY MAYOR

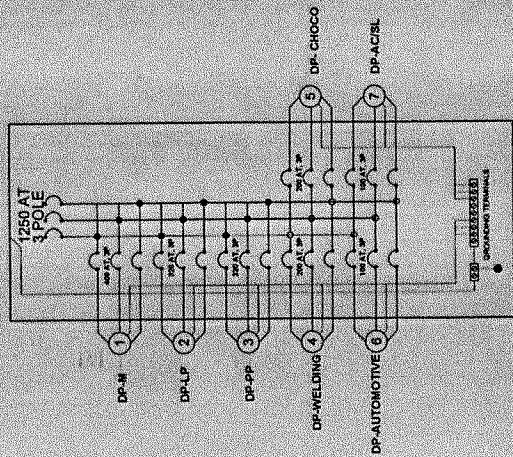
SHEET NO. **3** OF **16**

AS SHOWN

- IMPORTANT NOTES:**
1. INSTALLATION PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT REFERENCE TO THE ELECTRICAL DESIGN AND ENGINEER.
 2. IN CASE OF DISCREPANCY IN THE ORIGINAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTIVE ACTION.
 3. ANY VIOLATION OF THE INSTRUCTIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

CONFORME ACEPTADO BY:
ENGR. ARTA REYES V. GERONIMO
REGISTERED ELECTRICAL ENGINEER

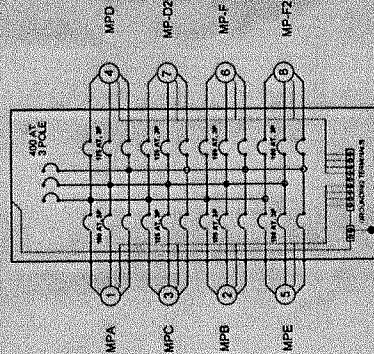
C.O.B.T.A.C.T.O.R.



MDP

MDP (MAIN DISTRIBUTION PANELBOARD) SCOPE OF WORK

1. THE NEW MDP AS SHOWN
2. REPLACEMENT OF OLD BREAKERS CONNECTED AT MDP
3. TAGGING OF OLD AND NEW PANEL BOARD
4. DP-AUTOMOTIVE
5. DP-ACRIL



DP - M

DP-M (DISTRIBUTION PANELBOARD MECHANICAL) SCOPE OF WORK

1. THE NEW DP-M AS SHOWN
2. REPLACEMENT OF OLD BREAKER CONNECTED AT DP-M
3. TAGGING OF OLD AND NEW PANEL BOARD
4. DP-AUTOMOTIVE
5. DP-ACRIL

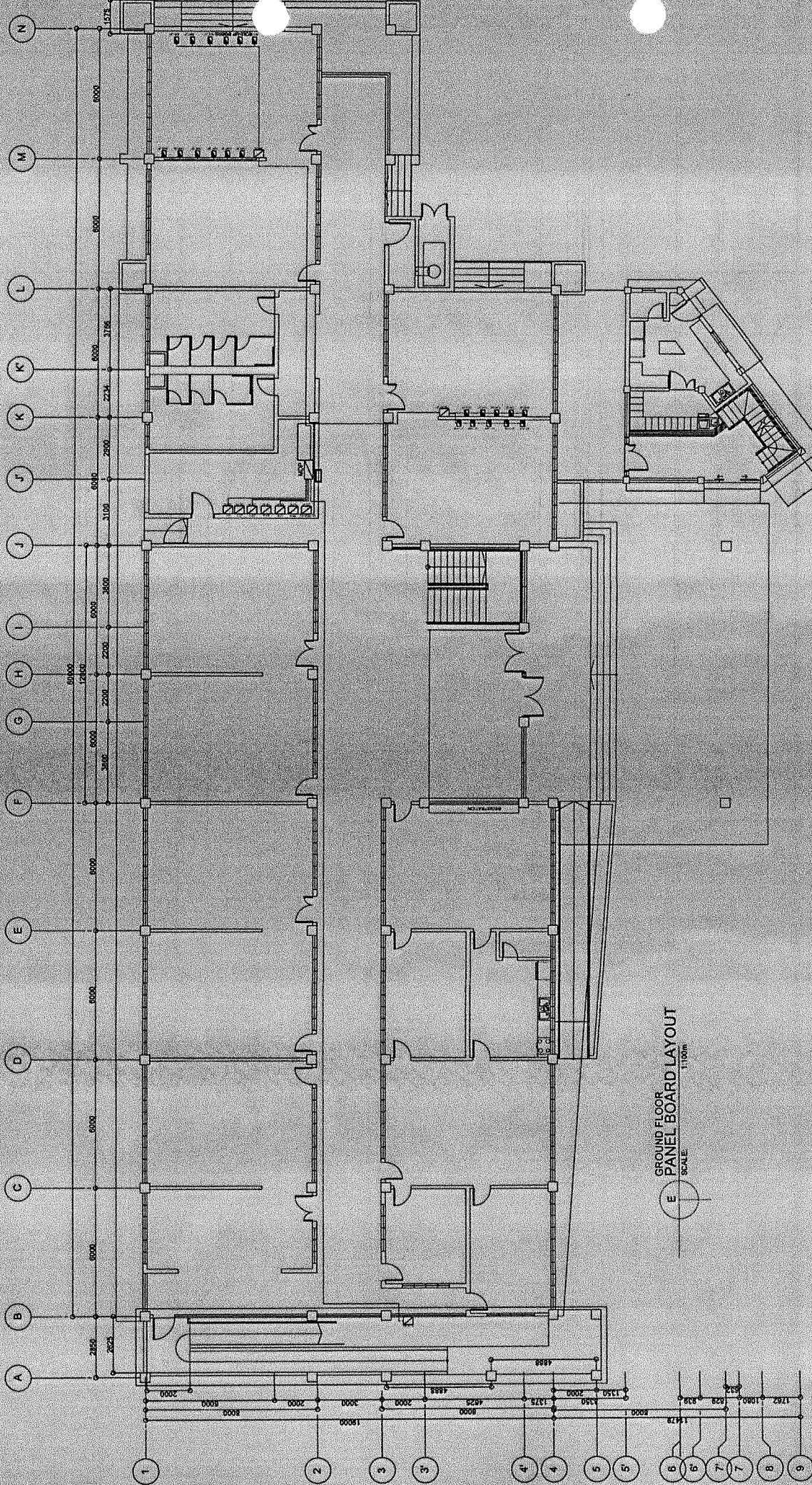
LOAD SCHEDULE : Mechanical Panelboard (MP-D2)												100AT / 100AF / 230V / 3P / MCCB											
CMT NO.	DESCRIPTION	VA	VOLT	AMPS LOAD			SERVING			TRADE SIZE			CONDUIT										
				AB	BC	CA	AT	AF	POLE	WIRE	WIRE	CONDUIT											
1	ACU-1	5175.00	230	22.50			70	50	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	20mm ² PVC	20mm ² PVC											
2	ACU-2	2760.00	230	12.00			40	50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	20mm ² PVC	20mm ² PVC											
3	ACU-3	5175.00	230	22.50			70	50	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	20mm ² PVC	20mm ² PVC											
4	ACU-4	2760.00	230	12.00			40	50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	20mm ² PVC	20mm ² PVC											
5	ACU-5	5175.00	230	22.50			70	50	2	2 - 14.0mm ² THHN + 1 - 5.0mm ² THHN	20mm ² PVC	20mm ² PVC											
6	ACU-6	2760.00	230	12.00			40	50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	20mm ² PVC	20mm ² PVC											
7	ACU-7	2760.00	230	12.00			40	50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	20mm ² PVC	20mm ² PVC											
8	SPARE		230				30	50	2														
9	ACU-9	2760.00	230	12.00			40	50	2	2 - 3.5mm ² THHN + 1 - 2.0mm ² THHN	20mm ² PVC	20mm ² PVC											
10	SPARE		230				30	50	2	2 - 3.5mm ² THHN + 1 - 2.0mm ² THHN	20mm ² PVC	20mm ² PVC											
11	ACU-11	2760.00	230	12.00			40	50	2	2 - 8.0mm ² THHN + 1 - 5.0mm ² THHN	20mm ² PVC	20mm ² PVC											
12	SPARE		230				30	50	2														
MAIN CBL				24.00			40	50		MAIN FEEDER WIRE:													
TOTAL / 100AF / 230V / 3P / MCCB				46.00			40	50		USE: 3 - 30.0mm ² THHN													
										1 - 8.0mm ² THHN													
										IN 40mm ² PVC													

COMPUTATION OF LOAD
I_L = 85.17 AMPS

SCOPE OF WORK:

1. INSTALLATION OF NEW PANEL BOARDS
2. REPLACEMENT AND ADDITIONAL BUSBAR FOR PANEL BOARD
3. ADDITIONAL BREAKER AS SHOWN ON DIFFERENT PANEL BOARD
4. TAGGING OF OLD AND NEW PANEL BOARD
5. REPLACEMENT AND SUPPLY OF ADDITIONAL LIGHTS
6. SUPPLY AND INSTALLATION OF AIR CONDITIONING EQUIPMENT, INCLUDING COPPER TUBE, TRANSMISSION AND FEEDER LINES
7. SUPPLY AND INSTALLATION OF CCTV SYSTEM
8. SUPPLY AND INSTALLATION OF PERIMETER AND STREET LIGHTS
9. SUPPLY AND INSTALLATION OF OUTLET LIGHTS, AC AND VENTILATION EQUIPMENT

	PROJECT TITLE	ELECTRICAL	REVISIONS APPROVAL	APPROVED BY:	SHEET CONTENT	SHEET NO.
	REPAIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS	ENGR. EDUARDO G. GARRIGA, JR. REGISTERED ELECTRICAL ENGINEER	ENGR. ARTAÑEZ V. GERONIMO REGISTERED ELECTRICAL ENGINEER	VICTOR M. REYES, N. BOTTO CITY ENGINEER	AS - SHOWN	E 416
IMPORTANT NOTES: 1. NO ALTERATION IN PANEL BOARD SPECIFICATION SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND ENGINEER. 2. IF IN ANY CASE THE CONSTRUCTION METHOD USED BY THE CONTRACTOR IMMEDIATELY TO BE INDICATED BEFORE BEING DRAWN IN PANEL, THE FINAL DESIGN OF THE STRUCTURAL ENGINEER MUST BE FOLLOWED. 3. IN CASE OF EMERGENCY IN THE FIELD OF WORK, THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT FOR HIS APPROVAL. 4. ANY VIOLATION OF THE INSTRUCTIONS SHALL BE CONSIDERED AS A BREACH OF THE CONTRACT.	ENGR. JORGE LIZON REGISTERED ELECTRICAL ENGINEER ENGR. ARTAÑEZ V. GERONIMO REGISTERED ELECTRICAL ENGINEER	ENGR. EDUARDO G. GARRIGA, JR. REGISTERED ELECTRICAL ENGINEER ENGR. ARTAÑEZ V. GERONIMO REGISTERED ELECTRICAL ENGINEER	VICTOR M. REYES, N. BOTTO CITY ENGINEER	CONFORME Y ACEPTO BY: ENGR. ARTAÑEZ V. GERONIMO REGISTERED ELECTRICAL ENGINEER ENGR. EDUARDO G. GARRIGA, JR. REGISTERED ELECTRICAL ENGINEER	CONFORME Y ACEPTO BY: VICTOR M. REYES, N. BOTTO CITY ENGINEER	E 416



GROUND FLOOR
 PANEL BOARD LAYOUT
 SCALE 1:1000

	<p>PROJECT TITLE: REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p> <p>LOCATION: PCST, MANDALAYAN, PASIG CITY</p>	<p>DESIGNED BY: ENR. EDUARDO C. BARRIGA, JR. <small>REGISTERED ELECTRICAL ENGINEER</small></p>	<p>REVIEWED BY: <small>REGISTERED ELECTRICAL ENGINEER</small></p>	<p>APPROVED BY: VICTOR M. REGIS M. SORITO <small>CITY MAYOR</small></p>	<p>SHEET NO. E-516 AS - SHOWN</p>
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IMPORTANT NOTES:

- NO ALTERATION IN PLANS AND SPECIFICATION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEER.
- IN ANY CASE THE CONSTRUCTION DRAWING SHALL BE SUBMITTED TO THE CONTRACTOR TO THE STRUCTURAL DESIGNER BEING DRAWN BY PLANS. THE FINAL DESIGN SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER. MUST BE SIGNATURED.
- IN CASE OF UNCONFLICT IN THE PLANS OR DRAWING, THE MATTER SHALL BE SUBMITTED TO THE CONTRACTOR TO THE STRUCTURAL DESIGNER. ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.
- ANY VIOLATION OF THIS INSTRUCTION SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- PROJECT MANAGER/INSPECTOR MUST OVERSEE THE PROJECT AT ALL TIMES AND CONFIRMATION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT.

ENGINEER & ACCEPTED BY:
ENR. ARTAVELVA L. GERONIMO
REGISTERED ELECTRICAL ENGINEER

C O N T R A C T O R

AIRCON NOTES:

IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTINGS, VALVES, HANGERS/SUPPORTS, ETC., ALL SUCH ITEM SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE ENGINEER AND THE OWNER.

CONTRACTOR SHALL BE RESPONSIBLE IN VERIFYING AND COORDINATING, THE FOLLOWING IN ACCORDANCE WITH MANUFACTURER'S DATA AND RECOMMENDATIONS.

- FLOOR AND WALL OPENINGS
- EQUIPMENT PAD/PEDESTALS

CONDENSATE DRAIN PIPES SHALL BE TAPPED TO NEAREST DOWNSPOUT OR DRAIN CONNECTION AND SHALL RUN AT 1% SLOPE.

ALL STRUCTURAL AND ARCHITECTURAL FINISHES DAMAGED DURING THE COURSE OF WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR AS APPROVED BY OWNER.

ALL INSULATED MECHANICAL PIPES THAT ARE EXPOSED SHALL BE CLADDED WITH ALUMINUM SHEET OF MACHINE/SHOP FABRICATED.


CONTRACTOR SHOULD BE FAMILIAR WITH THE ACTUAL SITE CONDITION AND INSTALLATION TO VERIFY IF THE WORK IS IN CONFORMANCE TO MANUFACTURER RECOMMENDATION AND SHOULD RECTIFY WORK NON-CONFORMANCE IF SUCH CONDITION EXIST.

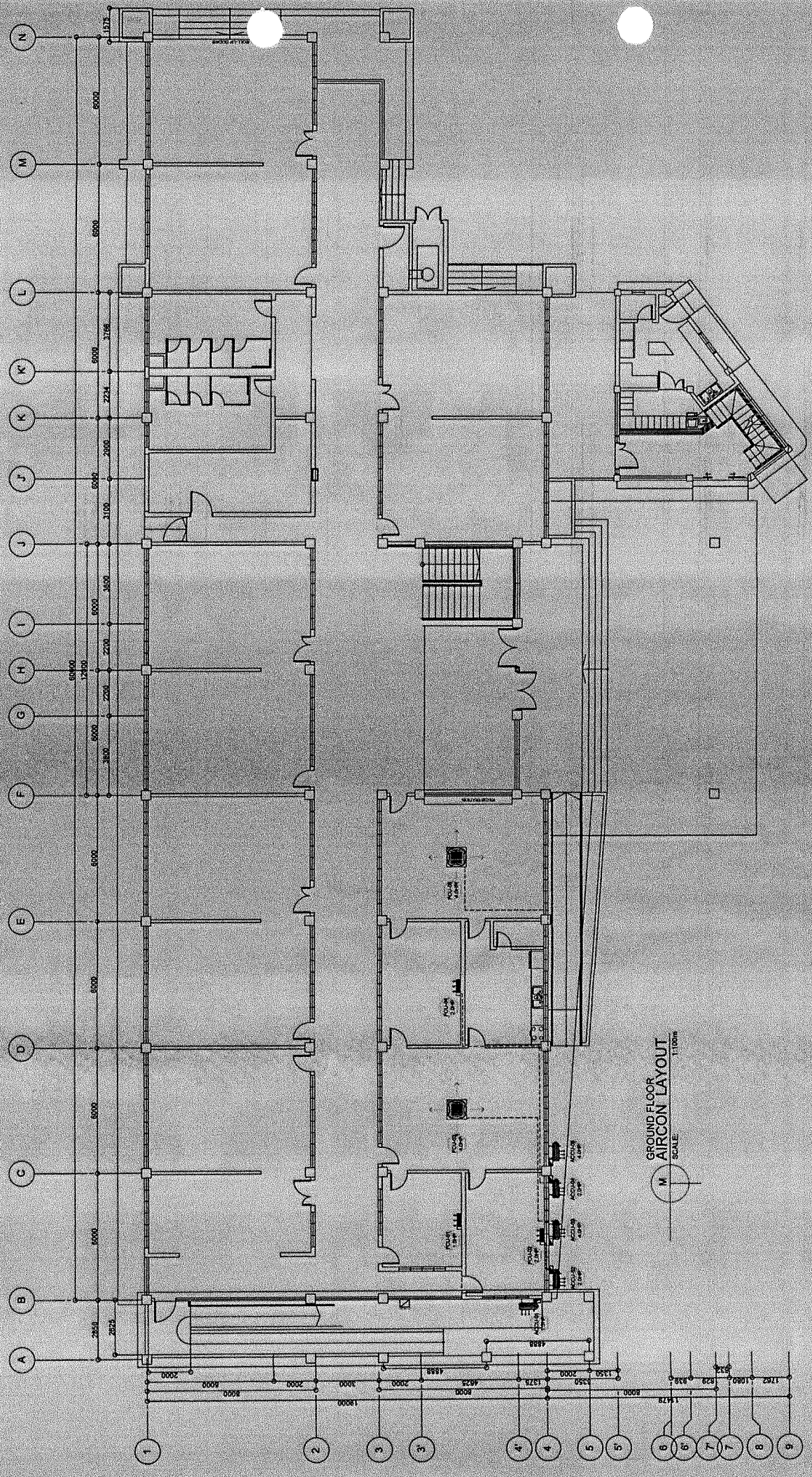
ALL MECHANICAL EQUIPMENT & INSTALLATION SHOULD STRICTLY COMPLY WITH THE MECHANICAL EQUIPMENT RECOMMENDED INSTALLATION & ACCEPTABLE STANDARDS.

ANY ADJUSTMENT FOR EQUIPMENT RELOCATION AT SITE THAT WILL DEVIATE FROM THE PLANS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY ENGINEER OR CONSULTANT.

SPLIT TYPE (INVERTER UNIT)

ITEM DESCRIPTION AND CAPACITY OF AIRCON UNITS (FCU AND ACCU)	SPECIFICATION	QTY.	AREA SERVE	TYPE OF INSULATION	ELECTRICAL DATA			REMARKS	REFRIGERANT TYPE
					VOLTS	PHASE	HERTZ		
ACU-1 ACU-2 ACU-3 ACU-4 ACU-5 ACU-6 ACU-7 ACU-8 ACU-9 ACU-10 ACU-11 ACU-12 ACU-13 ACU-14 ACU-15 ACU-16 ACU-17 ACU-18 ACU-19 ACU-20 ACU-21 ACU-22 ACU-23 ACU-24 ACU-25 ACU-26 ACU-27 ACU-28 ACU-29 ACU-30 ACU-31 ACU-32 ACU-33 ACU-34 ACU-35 ACU-36 ACU-37 ACU-38 ACU-39 ACU-40 ACU-41 ACU-42 ACU-43 ACU-44 ACU-45 ACU-46 ACU-47 ACU-48 ACU-49 ACU-50 ACU-51 ACU-52 ACU-53 ACU-54 ACU-55 ACU-56 ACU-57 ACU-58 ACU-59 ACU-60 ACU-61 ACU-62 ACU-63 ACU-64 ACU-65 ACU-66 ACU-67 ACU-68 ACU-69 ACU-70 ACU-71 ACU-72 ACU-73 ACU-74 ACU-75 ACU-76 ACU-77 ACU-78 ACU-79 ACU-80 ACU-81 ACU-82 ACU-83 ACU-84 ACU-85 ACU-86 ACU-87 ACU-88 ACU-89 ACU-90 ACU-91 ACU-92 ACU-93 ACU-94 ACU-95 ACU-96 ACU-97 ACU-98 ACU-99 ACU-100 ACU-101 ACU-102 ACU-103 ACU-104 ACU-105 ACU-106 ACU-107 ACU-108 ACU-109 ACU-110 ACU-111 ACU-112 ACU-113 ACU-114 ACU-115 ACU-116 ACU-117 ACU-118 ACU-119 ACU-120 ACU-121 ACU-122 ACU-123 ACU-124 ACU-125 ACU-126 ACU-127 ACU-128 ACU-129 ACU-130 ACU-131 ACU-132 ACU-133 ACU-134 ACU-135 ACU-136 ACU-137 ACU-138 ACU-139 ACU-140 ACU-141 ACU-142 ACU-143 ACU-144 ACU-145 ACU-146 ACU-147 ACU-148 ACU-149 ACU-150 ACU-151 ACU-152 ACU-153 ACU-154 ACU-155 ACU-156 ACU-157 ACU-158 ACU-159 ACU-160 ACU-161 ACU-162 ACU-163 ACU-164 ACU-165 ACU-166 ACU-167 ACU-168 ACU-169 ACU-170 ACU-171 ACU-172 ACU-173 ACU-174 ACU-175 ACU-176 ACU-177 ACU-178 ACU-179 ACU-180 ACU-181 ACU-182 ACU-183 ACU-184 ACU-185 ACU-186 ACU-187 ACU-188 ACU-189 ACU-190 ACU-191 ACU-192 ACU-193 ACU-194 ACU-195 ACU-196 ACU-197 ACU-198 ACU-199 ACU-200 ACU-201 ACU-202 ACU-203 ACU-204 ACU-205 ACU-206 ACU-207 ACU-208 ACU-209 ACU-210 ACU-211 ACU-212 ACU-213 ACU-214 ACU-215 ACU-216 ACU-217 ACU-218 ACU-219 ACU-220 ACU-221 ACU-222 ACU-223 ACU-224 ACU-225 ACU-226 ACU-227 ACU-228 ACU-229 ACU-230 ACU-231 ACU-232 ACU-233 ACU-234 ACU-235 ACU-236 ACU-237 ACU-238 ACU-239 ACU-240 ACU-241 ACU-242 ACU-243 ACU-244 ACU-245 ACU-246 ACU-247 ACU-248 ACU-249 ACU-250 ACU-251 ACU-252 ACU-253 ACU-254 ACU-255 ACU-256 ACU-257 ACU-258 ACU-259 ACU-260 ACU-261 ACU-262 ACU-263 ACU-264 ACU-265 ACU-266 ACU-267 ACU-268 ACU-269 ACU-270 ACU-271 ACU-272 ACU-273 ACU-274 ACU-275 ACU-276 ACU-277 ACU-278 ACU-279 ACU-280 ACU-281 ACU-282 ACU-283 ACU-284 ACU-285 ACU-286 ACU-287 ACU-288 ACU-289 ACU-290 ACU-291 ACU-292 ACU-293 ACU-294 ACU-295 ACU-296 ACU-297 ACU-298 ACU-299 ACU-300 ACU-301 ACU-302 ACU-303 ACU-304 ACU-305 ACU-306 ACU-307 ACU-308 ACU-309 ACU-310 ACU-311 ACU-312 ACU-313 ACU-314 ACU-315 ACU-316 ACU-317 ACU-318 ACU-319 ACU-320 ACU-321 ACU-322 ACU-323 ACU-324 ACU-325 ACU-326 ACU-327 ACU-328 ACU-329 ACU-330 ACU-331 ACU-332 ACU-333 ACU-334 ACU-335 ACU-336 ACU-337 ACU-338 ACU-339 ACU-340 ACU-341 ACU-342 ACU-343 ACU-344 ACU-345 ACU-346 ACU-347 ACU-348 ACU-349 ACU-350 ACU-351 ACU-352 ACU-353 ACU-354 ACU-355 ACU-356 ACU-357 ACU-358 ACU-359 ACU-360 ACU-361 ACU-362 ACU-363 ACU-364 ACU-365 ACU-366 ACU-367 ACU-368 ACU-369 ACU-370 ACU-371 ACU-372 ACU-373 ACU-374 ACU-375 ACU-376 ACU-377 ACU-378 ACU-379 ACU-380 ACU-381 ACU-382 ACU-383 ACU-384 ACU-385 ACU-386 ACU-387 ACU-388 ACU-389 ACU-390 ACU-391 ACU-392 ACU-393 ACU-394 ACU-395 ACU-396 ACU-397 ACU-398 ACU-399 ACU-400 ACU-401 ACU-402 ACU-403 ACU-404 ACU-405 ACU-406 ACU-407 ACU-408 ACU-409 ACU-410 ACU-411 ACU-412 ACU-413 ACU-414 ACU-415 ACU-416 ACU-417 ACU-418 ACU-419 ACU-420 ACU-421 ACU-422 ACU-423 ACU-424 ACU-425 ACU-426 ACU-427 ACU-428 ACU-429 ACU-430 ACU-431 ACU-432 ACU-433 ACU-434 ACU-435 ACU-436 ACU-437 ACU-438 ACU-439 ACU-440 ACU-441 ACU-442 ACU-443 ACU-444 ACU-445 ACU-446 ACU-447 ACU-448 ACU-449 ACU-450 ACU-451 ACU-452 ACU-453 ACU-454 ACU-455 ACU-456 ACU-457 ACU-458 ACU-459 ACU-460 ACU-461 ACU-462 ACU-463 ACU-464 ACU-465 ACU-466 ACU-467 ACU-468 ACU-469 ACU-470 ACU-471 ACU-472 ACU-473 ACU-474 ACU-475 ACU-476 ACU-477 ACU-478 ACU-479 ACU-480 ACU-481 ACU-482 ACU-483 ACU-484 ACU-485 ACU-486 ACU-487 ACU-488 ACU-489 ACU-490 ACU-491 ACU-492 ACU-493 ACU-494 ACU-495 ACU-496 ACU-497 ACU-498 ACU-499 ACU-500 ACU-501 ACU-502 ACU-503 ACU-504 ACU-505 ACU-506 ACU-507 ACU-508 ACU-509 ACU-510 ACU-511 ACU-512 ACU-513 ACU-514 ACU-515 ACU-516 ACU-517 ACU-518 ACU-519 ACU-520 ACU-521 ACU-522 ACU-523 ACU-524 ACU-525 ACU-526 ACU-527 ACU-528 ACU-529 ACU-530 ACU-531 ACU-532 ACU-533 ACU-534 ACU-535 ACU-536 ACU-537 ACU-538 ACU-539 ACU-540 ACU-541 ACU-542 ACU-543 ACU-544 ACU-545 ACU-546 ACU-547 ACU-548 ACU-549 ACU-550 ACU-551 ACU-552 ACU-553 ACU-554 ACU-555 ACU-556 ACU-557 ACU-558 ACU-559 ACU-560 ACU-561 ACU-562 ACU-563 ACU-564 ACU-565 ACU-566 ACU-567 ACU-568 ACU-569 ACU-570 ACU-571 ACU-572 ACU-573 ACU-574 ACU-575 ACU-576 ACU-577 ACU-578 ACU-579 ACU-580 ACU-581 ACU-582 ACU-583 ACU-584 ACU-585 ACU-586 ACU-587 ACU-588 ACU-589 ACU-590 ACU-591 ACU-592 ACU-593 ACU-594 ACU-595 ACU-596 ACU-597 ACU-598 ACU-599 ACU-600 ACU-601 ACU-602 ACU-603 ACU-604 ACU-605 ACU-606 ACU-607 ACU-608 ACU-609 ACU-610 ACU-611 ACU-612 ACU-613 ACU-614 ACU-615 ACU-616 ACU-617 ACU-618 ACU-619 ACU-620 ACU-621 ACU-622 ACU-623 ACU-624 ACU-625 ACU-626 ACU-627 ACU-628 ACU-629 ACU-630 ACU-631 ACU-632 ACU-633 ACU-634 ACU-635 ACU-636 ACU-637 ACU-638 ACU-639 ACU-640 ACU-641 ACU-642 ACU-643 ACU-644 ACU-645 ACU-646 ACU-647 ACU-648 ACU-649 ACU-650 ACU-651 ACU-652 ACU-653 ACU-654 ACU-655 ACU-656 ACU-657 ACU-658 ACU-659 ACU-660 ACU-661 ACU-662 ACU-663 ACU-664 ACU-665 ACU-666 ACU-667 ACU-668 ACU-669 ACU-670 ACU-671 ACU-672 ACU-673 ACU-674 ACU-675 ACU-676 ACU-677 ACU-678 ACU-679 ACU-680 ACU-681 ACU-682 ACU-683 ACU-684 ACU-685 ACU-686 ACU-687 ACU-688 ACU-689 ACU-690 ACU-691 ACU-692 ACU-693 ACU-694 ACU-695 ACU-696 ACU-697 ACU-698 ACU-699 ACU-700 ACU-701 ACU-702 ACU-703 ACU-704 ACU-705 ACU-706 ACU-707 ACU-708 ACU-709 ACU-710 ACU-711 ACU-712 ACU-713 ACU-714 ACU-715 ACU-716 ACU-717 ACU-718 ACU-719 ACU-720 ACU-721 ACU-722 ACU-723 ACU-724 ACU-725 ACU-726 ACU-727 ACU-728 ACU-729 ACU-730 ACU-731 ACU-732 ACU-733 ACU-734 ACU-735 ACU-736 ACU-737 ACU-738 ACU-739 ACU-740 ACU-741 ACU-742 ACU-743 ACU-744 ACU-745 ACU-746 ACU-747 ACU-748 ACU-749 ACU-750 ACU-751 ACU-752 ACU-753 ACU-754 ACU-755 ACU-756 ACU-757 ACU-758 ACU-759 ACU-760 ACU-761 ACU-762 ACU-763 ACU-764 ACU-765 ACU-766 ACU-767 ACU-768 ACU-769 ACU-770 ACU-771 ACU-772 ACU-773 ACU-774 ACU-775 ACU-776 ACU-777 ACU-778 ACU-779 ACU-780 ACU-781 ACU-782 ACU-783 ACU-784 ACU-785 ACU-786 ACU-787 ACU-788 ACU-789 ACU-790 ACU-791 ACU-792 ACU-793 ACU-794 ACU-795 ACU-796 ACU-797 ACU-798 ACU-799 ACU-800 ACU-801 ACU-802 ACU-803 ACU-804 ACU-805 ACU-806 ACU-807 ACU-808 ACU-809 ACU-810 ACU-811 ACU-812 ACU-813 ACU-814 ACU-815 ACU-816 ACU-817 ACU-818 ACU-819 ACU-820 ACU-821 ACU-822 ACU-823 ACU-824 ACU-825 ACU-826 ACU-827 ACU-828 ACU-829 ACU-830 ACU-831 ACU-832 ACU-833 ACU-834 ACU-835 ACU-836 ACU-837 ACU-838 ACU-839 ACU-840 ACU-841 ACU-842 ACU-843 ACU-844 ACU-845 ACU-846 ACU-847 ACU-848 ACU-849 ACU-850 ACU-851 ACU-852 ACU-853 ACU-854 ACU-855 ACU-856 ACU-857 ACU-858 ACU-859 ACU-860 ACU-861 ACU-862 ACU-863 ACU-864 ACU-865 ACU-866 ACU-867 ACU-868 ACU-869 ACU-870 ACU-871 ACU-872 ACU-873 ACU-874 ACU-875 ACU-876 ACU-877 ACU-878 ACU-879 ACU-880 ACU-881 ACU-882 ACU-883 ACU-884 ACU-885 ACU-886 ACU-887 ACU-888 ACU-889 ACU-890 ACU-891 ACU-892 ACU-893 ACU-894 ACU-895 ACU-896 ACU-897 ACU-898 ACU-899 ACU-900 ACU-901 ACU-902 ACU-903 ACU-904 ACU-905 ACU-906 ACU-907 ACU-908 ACU-909 ACU-910 ACU-911 ACU-912 ACU-913 ACU-914 ACU-915 ACU-916 ACU-917 ACU-918 ACU-919 ACU-920 ACU-921 ACU-922 ACU-923 ACU-924 ACU-925 ACU-926 ACU-927 ACU-928 ACU-929 ACU-930 ACU-931 ACU-932 ACU-933 ACU-934 ACU-935 ACU-936 ACU-937 ACU-938 ACU-939 ACU-940 ACU-941 ACU-942 ACU-943 ACU-944 ACU-945 ACU-946 ACU-947 ACU-948 ACU-949 ACU-950 ACU-951 ACU-952 ACU-953 ACU-954 ACU-955 ACU-956 ACU-957 ACU-958 ACU-959 ACU-960 ACU-961 ACU-962 ACU-963 ACU-964 ACU-965 ACU-966 ACU-967 ACU-968 ACU-969 ACU-970 ACU-971 ACU-972 ACU-973 ACU-974 ACU-975 ACU-976 ACU-977 ACU-978 ACU-979 ACU-980 ACU-981 ACU-982 ACU-983 ACU-984 ACU-985 ACU-986 ACU-987 ACU-988 ACU-989 ACU-990 ACU-991 ACU-992 ACU-993 ACU-994 ACU-995 ACU-996 ACU-997 ACU-998 ACU-999 ACU-1000	WALL MOUNTED	3	GROUND FLOOR	RUBBER INSULATION	220	1Φ ACCU/ 1Φ FCU	60	INVERTER TYPE	R410A/R32
		CEILING CASSETTE	2						
	CEILING CASSETTE	3	SECOND FLOOR	RUBBER INSULATION	220	1Φ ACCU/ 1Φ FCU	60	INVERTER TYPE	R410A/R32
	CEILING CASSETTE	1	THIRD FLOOR	RUBBER INSULATION	220	1Φ ACCU/ 1Φ FCU	60	INVERTER TYPE	R410A/R32
	CEILING CASSETTE	8	FORTH FLOOR	RUBBER INSULATION	220	1Φ ACCU/ 1Φ FCU	60	INVERTER TYPE	R410A/R32
	CEILING CASSETTE	1	FIFTH FLOOR	RUBBER INSULATION	220	1Φ ACCU/ 1Φ FCU	60	INVERTER TYPE	R410A/R32
	CEILING CASSETTE	4	SIXTH FLOOR	RUBBER INSULATION	220	1Φ ACCU/ 1Φ FCU	60	INVERTER TYPE	R410A/R32

 REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION	PROJECT TITLE: REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS LOCATION: PORT MANGUANA, PASIG CITY	ELECTRICAL: ENR. EDUARDO S. BARRERA JR. ENR. JESSE L. LIMON ENR. JESSE L. LIMON	CHECKED BY: ENR. JESSE L. LIMON ENR. JESSE L. LIMON	REVIEWED BY: ENR. EDUARDO S. BARRERA JR. ENR. JESSE L. LIMON	RECOMMENDATION APPROVAL: ENR. MITAJERREY G. GERONIMO ENR. MITAJERREY G. GERONIMO	APPROVED BY: VICTOR WALDEZ AT 85770 CITY MANAGER	SHEET CONTENT: AS - SHOWN	SHEET NO.: E 6/16
	IMPORTANT NOTES: 1. NO ALTERATION IN PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROJECT ENGINEER AND ENGINEERS. 2. IF ANY CASE THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONTRACT TO THE CONTRACTUAL SECTION BEING DRAWN IN THESE PLANS. THE FINAL DESIGN SHALL BE SUBMITTED. 3. IN CASE OF DISCREPANCY IN THE PLANS OR CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NECESSARY ADJUSTMENT. ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR. 4. ANY VIOLATION OF THE INSTRUCTIONS SHALL BE CONSIDERED AS A BREACH OF CONTRACT. 5. PROJECT IN-CHARGE / INSPECTOR MUST BE OBJECTIVE IN HIS/HER DECISIONS IN ALL WORK CONFORMING ACTIVITIES. 6. CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEERS WHO WILL BE RESPONSIBLE FOR THE PROJECT. CONFORME & ACCEPTED BY: CONTRACTOR							



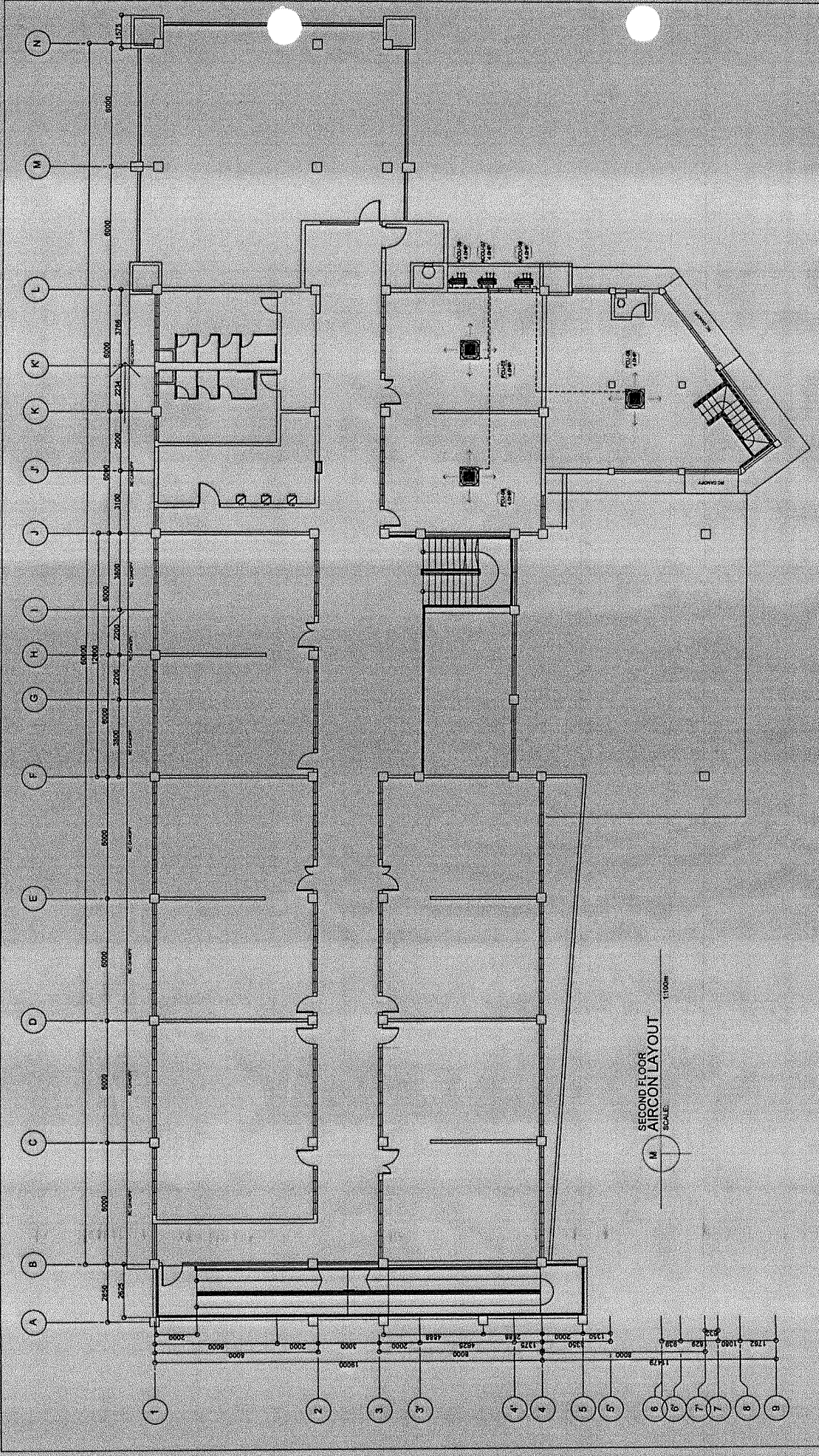
GROUND FLOOR AIRCON LAYOUT
SCALE: 1:100

	<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE: REPAIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p>	<p>ELECTRICAL: <i>Edgardo S. Barruga, Jr.</i> ENGR. EDGARDO S. BARRUGA, JR. REGISTERED ELECTRICAL ENGINEER</p>	<p>CHECKED BY: <i>George L. Tizon</i> ENGR. GEORGE L. TIZON REGISTERED ELECTRICAL ENGINEER</p>	<p>REVIEWED BY: <i>Engr. Artaferley V. Geronimo</i> ENGR. ARTA FERLEY V. GERONIMO REGISTERED ELECTRICAL ENGINEER</p>	<p>APPROVED BY: <i>Victor M. Resis N. Sotto</i> VICTOR M. RESIS N. SOTTO CITY MAYOR</p>	<p>SHEET NO. E 716</p>
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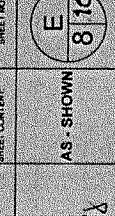
IMPORTANT NOTES:

- NO ALTERATION IN PLANS AND SPECIFICATION SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT AND ENGINEER.
- IF IN ANY CASE THE CONSTRUCTION DRAWING IS NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE FINAL DESIGN SHALL BE THE FINAL DESIGN OF THE ARCHITECT AND ENGINEER.
- IN CASE OF DISCREPANCY IN THE FIGURE OR DRAWING, THE LATTER SHALL BE SUBMITTED TO THE ARCHITECT FOR HIS REVIEW AND ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.
- ANY VIOLATION OF THIS INSTRUCTION SHALL BE CONSIDERED AS A BREACH OF CONTRACT BY THE CONTRACTOR.
- PROJECT IN CHARGE, INSPECTOR MUST VERIFY THE PROJECT AT ALL TIMES AND REPORT TO THE ARCHITECT AND ENGINEER OF ANY CHANGING ACTIVITIES.
- CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEER WHO WILL BE RESPONSIBLE FOR THE PROJECT.

CONFORME ACEPTU BY:
CONTRACTOR



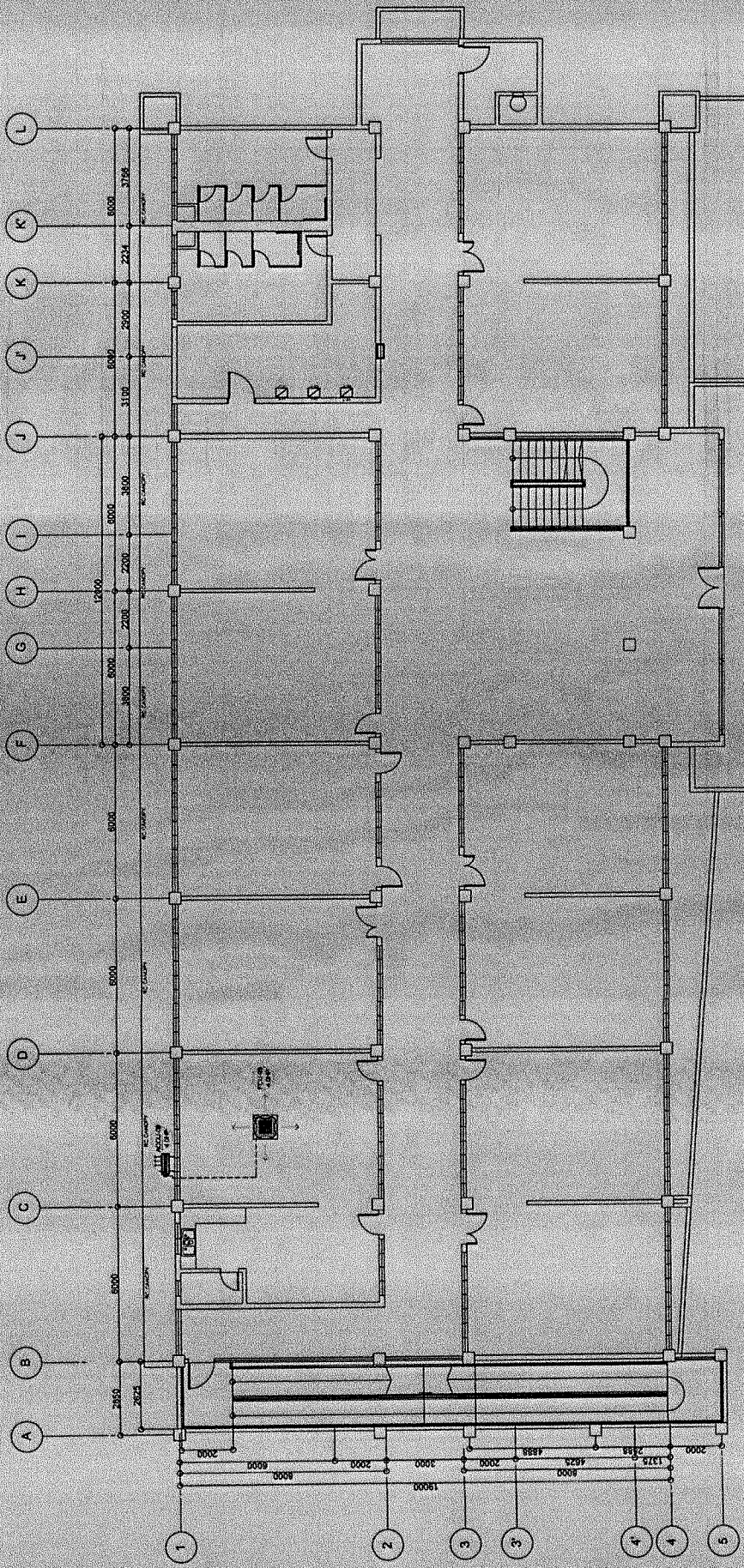
SECOND FLOOR
AIRCON LAYOUT
SCALE: 1:1000

 <p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE: REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS LOCATION: PORT SANDRA, PASIG CITY</p>	<p>ELECTRICAL ENR. JEROME G. SARINOA JR. REGISTERED ELECTRICAL ENGINEER</p>	<p>CHECKED BY: ENR. JIMIE LITZON REGISTERED ELECTRICAL ENGINEER</p>	<p>REVIEWED BY: ENR. JESSE E. TRUDERICO REGISTERED ELECTRICAL ENGINEER</p>	<p>RECOMMENDING APPROVAL: ENR. ARTAIVERVE V. GERONIMO REGISTERED ELECTRICAL ENGINEER</p>	<p>APPROVED BY: VICTOR WALBERTO CITY ENGINEER</p>	<p>SHEET NO. 8 OF 16 AS - SHOWN</p>
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IMPORTANT NOTES:

- NO ALTERATION OF PIPES AND ELECTRICAL WIRING SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND ENGINEER.
- IF ANY DISCREPANCY IS FOUND BETWEEN THE CONTRACT DOCUMENTS AND THE AS-BUILT CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY TO THE ARCHITECT'S OFFICE FOR IMPLEMENTATION.
- SCALE OF DISCREPANCY IN THE FIGURE OR DIMENSIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ANY VARIATION OF THIS INSTRUMENT SHALL BE SUBJECT TO THE DISCRETION OF THE CONTRACTOR.
- ENR. JEROME G. SARINOA JR. REGISTERED ELECTRICAL ENGINEER
- PROJECT IN-CHARGE (INSPECTOR MUST CONSIDER THE PROJECT AT ALL TIMES AND CONFORMING ACTIVITIES.
- CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEER WHO WILL BE RESPONSIBLE FOR THE PROJECT.

CONFORME & ACCEPTED BY:
C O N T R A C T O R



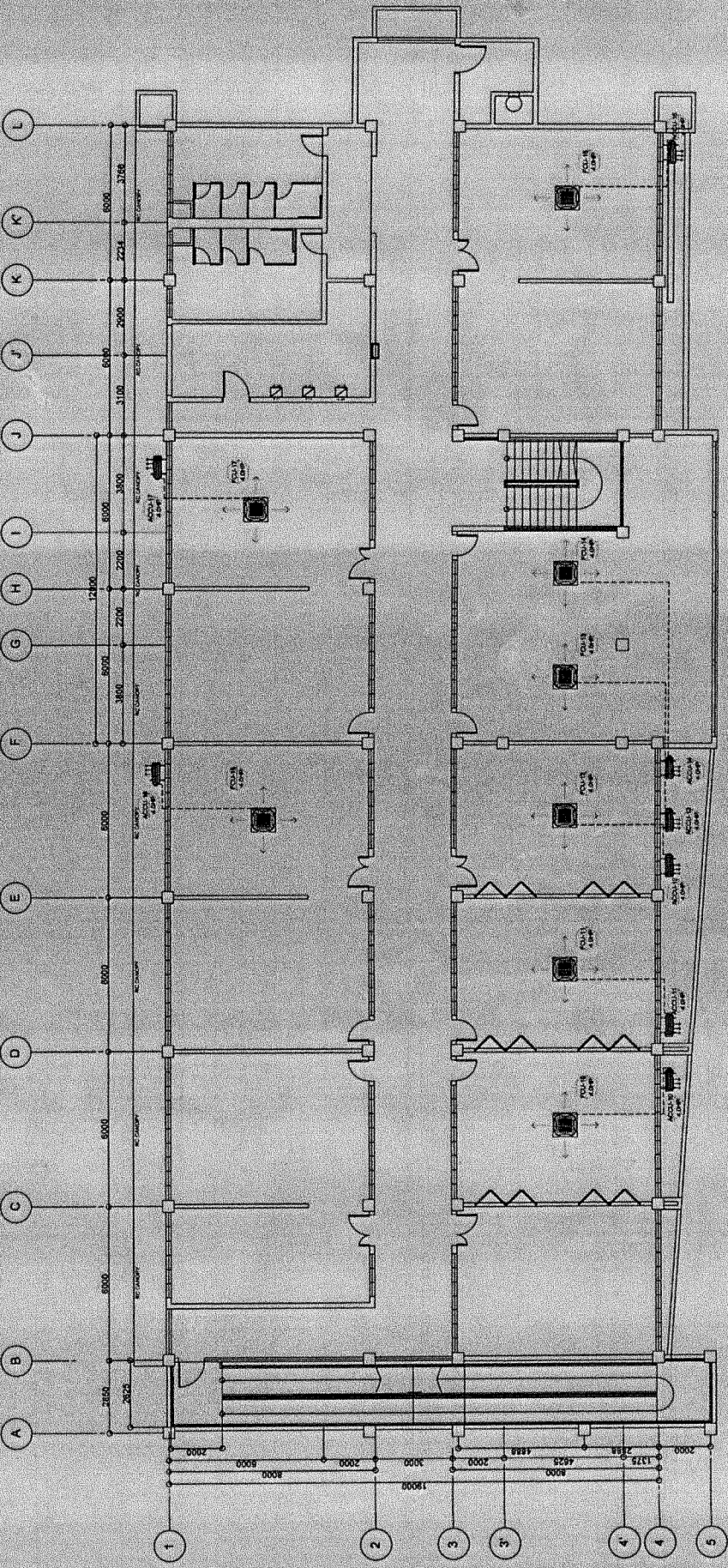
M
THIRD FLOOR
AIRCON LAYOUT
SCALE
1:100m

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE: REPAIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p> <p>LOCATION: POBRI, MARAGUANG, PASIG CITY</p>	<p>ELECTRICAL: <i>Edgardo G. Barraluga, Jr.</i> ENGR. EDUARDO G. BARRALUGA, JR. REGISTERED ELECTRICAL ENGINEER</p>	<p>CHECKED BY: <i>Angela L. Tizon</i> ENGR. ANGELA L. TIZON REGISTERED ELECTRICAL ENGINEER</p>	<p>REVIEWED BY: <i>Francisco</i> ENGR. FRANCISCO REGISTERED ELECTRICAL ENGINEER</p>	<p>RECOMMENDING APPROVAL: <i>Victor M. N. Sotto</i> ENGR. VICTOR M. N. SOTTO REGISTERED ELECTRICAL ENGINEER</p>	<p>APPROVED BY: <i>Victor M. N. Sotto</i> ENGR. VICTOR M. N. SOTTO REGISTERED ELECTRICAL ENGINEER</p>	<p>SHEET CONTENT: AS - SHOWN</p> <p>SHEET NO.: E 916</p>
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IMPORTANT NOTES:

1. MODIFICATION IN PLANS AND SPECIFICATION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEER.
2. IN ANY CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DRAWING. IN CASE OF DISCREPANCY IN THE FIGURE OR DRAWING, THE LATTER SHALL BE SUBMITTED TO THE ARCHITECT FOR HIS REVIEW AND ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.
3. IN CASE OF DISCREPANCY IN THE FIGURE OR DRAWING, THE LATTER SHALL BE SUBMITTED TO THE ARCHITECT FOR HIS REVIEW AND ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.
4. ANY VIOLATION OF THIS INSTRUCTION SHALL BE CONSIDERED AS A BREACH OF CONTRACT.
5. PROJECT IN-CHARGE / INSPECTOR MUST REPORT TO THE ARCHITECT IMMEDIATELY UPON RECEIVING ANY REPORT TO THE EFFECT OF NON-COMPLYING ACTIVITIES.
6. CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEER WITH ALL NECESSARY INFORMATION AND DOCUMENTS WHO WILL BE RESPONSIBLE FOR THE PROJECT.

COMPANIES ACCEPTED BY:
C O N T R A C T O R



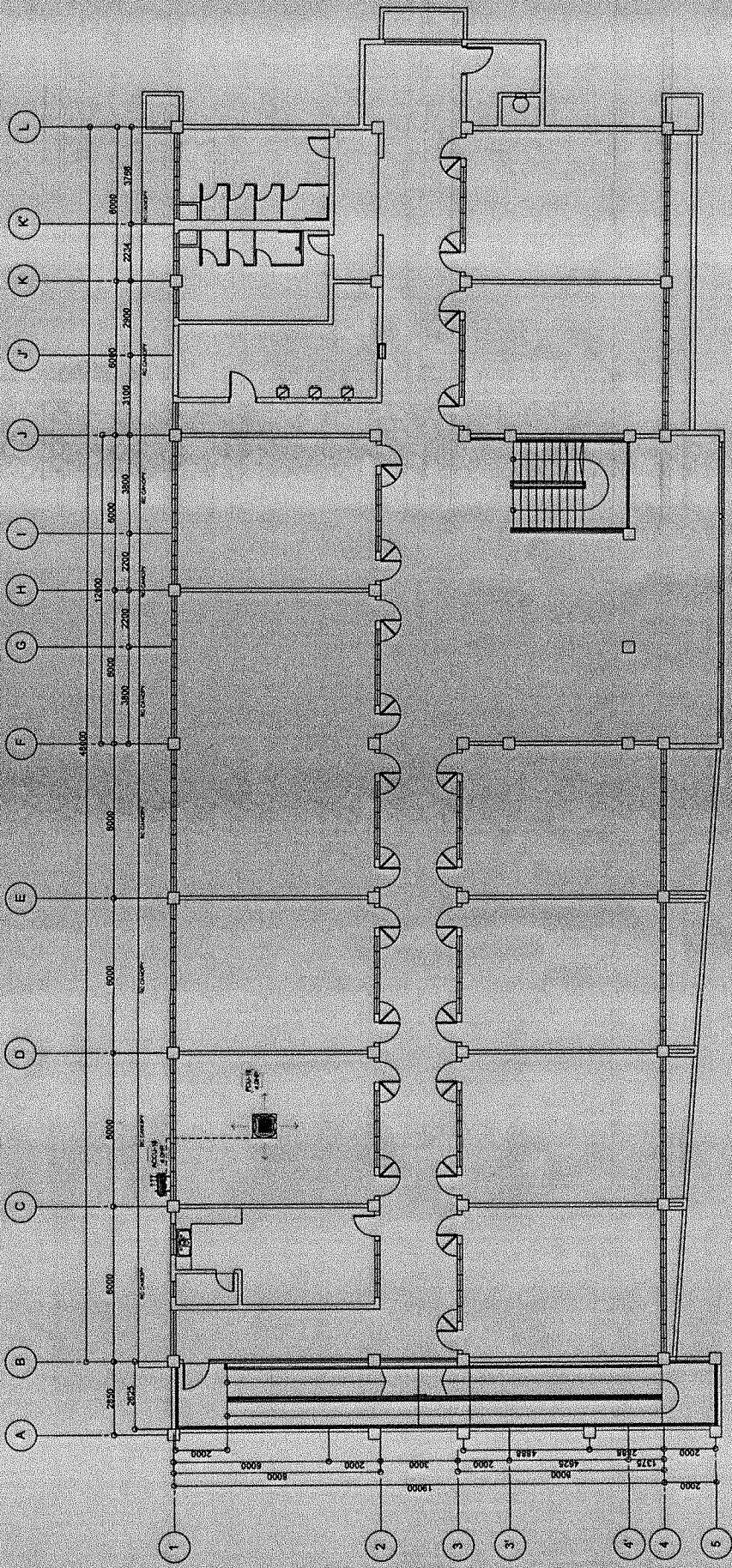
FOURTH FLOOR
AIRCON LAYOUT
SCALE 1:100m

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE REPAIRS OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p> <p>LOCATION: PORT MANDAYAWAN, PASIG CITY</p>	<p>ELECTRICAL</p> <p>ENGR. EDUARDO G. BARRUQUIN, JR. <i>Eduardo G. Barruquin, Jr.</i></p>	<p>CHECKED BY</p> <p>ENGR. JORGE LITZON <i>Jorge Litzon</i></p>	<p>DESIGNED BY</p> <p>ENGR. EDUARDO G. BARRUQUIN, JR. <i>Eduardo G. Barruquin, Jr.</i></p>	<p>RECOMMENDED APPROVAL</p> <p>ENGR. ARTAVERDEAL GERONIMO <i>Arta Verdeal Geronimo</i></p>	<p>APPROVED BY</p> <p>VICTOR MACRESIS CITY ENGINEER</p>	<p>SHEET CONTENT: AS - SHOWN</p>	<p>SHEET NO. E 1016</p>
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IMPORTANT NOTES:

1. MODIFICATION IN NAME AND SPECIFICATION SHALL BE MADE WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.
2. IF IN ANY CASE THE CONSTRUCTION DRAWING IS INCOMPLETE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETION OF THE DRAWING AND SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT.
3. IN CASE OF DISCREPANCY IN THE DRAWING OR DRAWING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF THE DRAWING AND SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT.
4. ANY VIOLATION OF THIS INSTRUCTION SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
5. PROJECT (ALPHABETIC) INSPECTION MUST OBTAIN THE PROJECT AT ALL TIMES BY THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT.
6. CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEER WHO WILL BE RESPONSIBLE FOR THE PROJECT.


CONTRACTOR & ACCEPTED BY: _____
CONTRACTOR

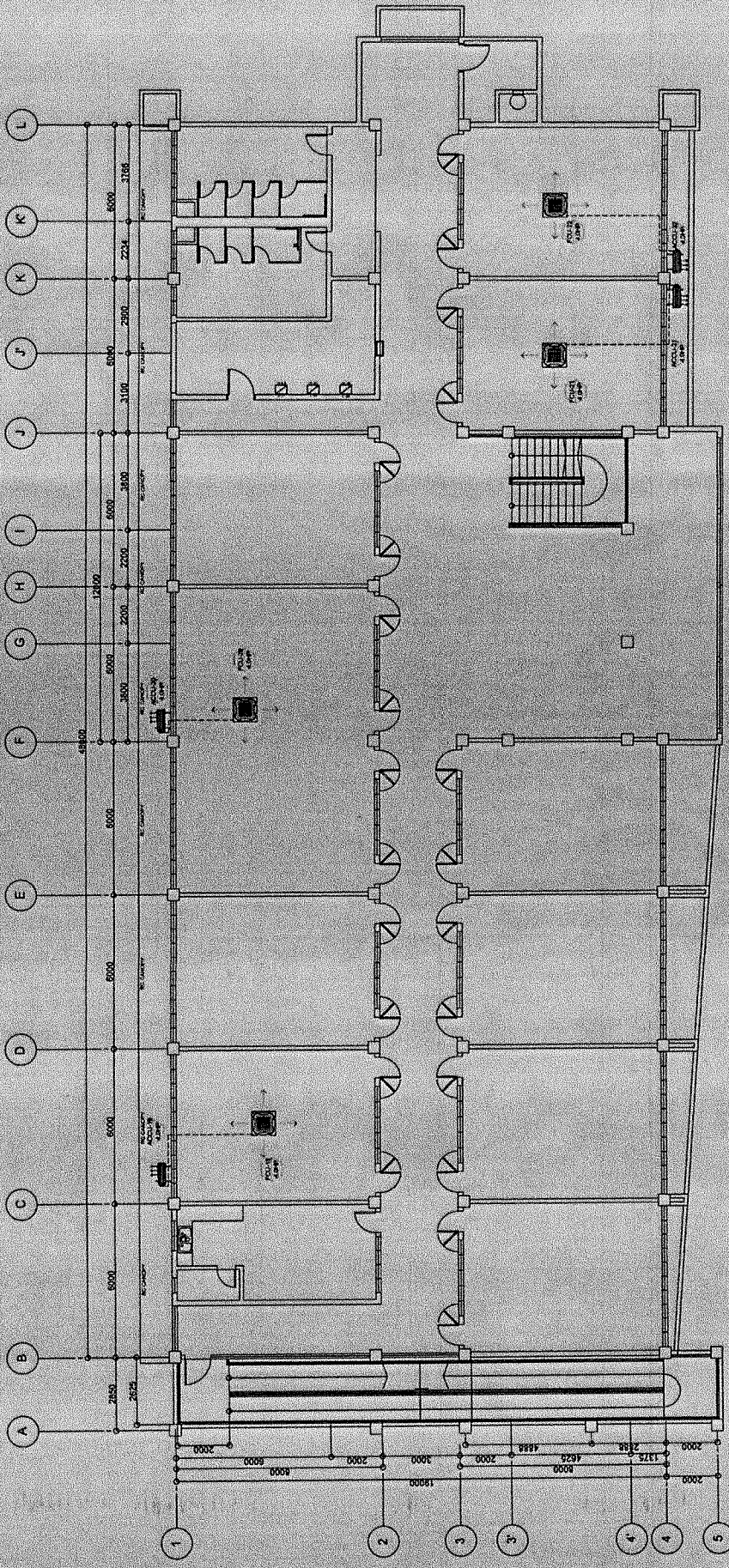


FIFTH FLOOR
AIRCON LAYOUT



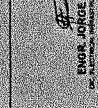
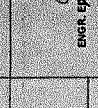
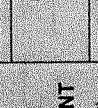
SCALE 1:100m



 <p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE REPAIRING OF FEEDER LINES AND REPAIRING OF OLD PANELBOARDS LOCATION: PCPT, MARCOSAR, PASIG CITY</p>	<p>ELECTRICAL ENGR. EDUARDO S. LARIBONIA, JR. REGISTERED ELECTRICAL ENGINEER</p>	<p>CHECKED BY ENGR. RAFAEL LETA REGISTERED ELECTRICAL ENGINEER</p>	<p>REVIEWED BY ENGR. ARYANEREE V. GERONIMO REGISTERED ELECTRICAL ENGINEER</p>	<p>APPROVED BY VICTOR MACAREGAL BOTTO CITY ENGINEER</p>	<p>SHEET CONTENT AS - SHOWN</p>	<p>SHEET NO. E 11/16</p>
<p>IMPORTANT NOTES</p>	<p>1. REVISIONS IN PLANS AND SPECIFICATIONS SHALL BE MADE ONLY AFTER THE PROOF APPROVAL OF THE ARCHITECT AND ENGINEER.</p>	<p>2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE APPROVAL OF THE ARCHITECT AND ENGINEER.</p>	<p>3. IN CASE OF DISCREPANCY IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NECESSARY ADJUSTMENT TO THE ARCHITECT AND ENGINEER'S DRAWINGS.</p>	<p>4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NECESSARY ADJUSTMENT TO THE ARCHITECT AND ENGINEER'S DRAWINGS.</p>	<p>5. PROJECT RE-CHARGE / INSPECTOR MUST BE DONE AT THE DISCRETION OF THE ARCHITECT AND ENGINEER.</p>	<p>6. CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEER WITH ALL NECESSARY INFORMATION AND DOCUMENTS FOR THE PROJECT.</p>	<p>CONFIRMED & ACCEPTED BY CONTRACTOR</p>

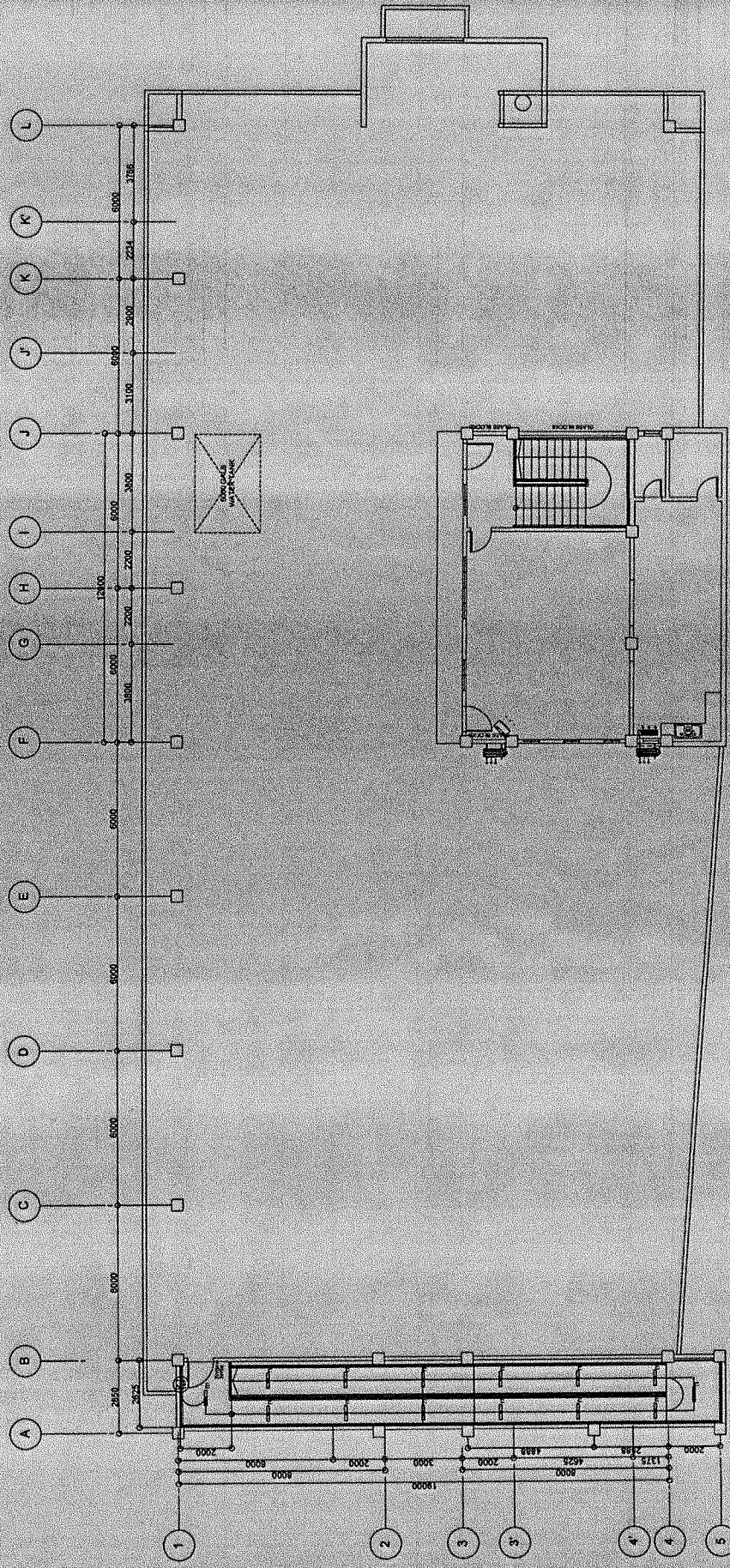


SIXTH FLOOR AIRCON LAYOUT
SCALE 1:100m

 <p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p> <p>LOCATION: P.O. BOX 100, MANDALAYANG, PASIG CITY</p>	<p>APPROVED BY:  VICTOR AL. REBOLLEDO CITY MAYOR</p>	<p>RECOMMENDING APPROVAL:  ENGR. ANTARES J. GEROMINO PROJECT MANAGER</p>	<p>REVIEWED BY:  ENGR. ARMANDO S. PRUDENCIO CITY ENGINEER</p>	<p>CHECKED BY:  ENGR. EDUARDO C. BARRUGA JR. PROJECT ENGINEER</p>	<p>SHEET CONTENT: AS - SHOWN</p> <p>SHEET NO.: E 1216</p> <p>CONFORME & ACCEPTED BY: C.O.B.T.A.C.T.O.R.</p>
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IMPORTANT NOTES:

1. REVISIONS IN PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND ENGINEERS.
2. IF ANY CHANGES TO THE CONTRACTOR'S WORK ARE REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND ENGINEERS IN WRITING. ANY CHANGES TO THE CONTRACTOR'S WORK SHALL BE MADE BY THE CONTRACTOR AT HIS OWN RISK AND WITHOUT THE ARCHITECT AND ENGINEERS' LIABILITY.
3. WORK IS TO BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. DELAY IN COMPLETION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

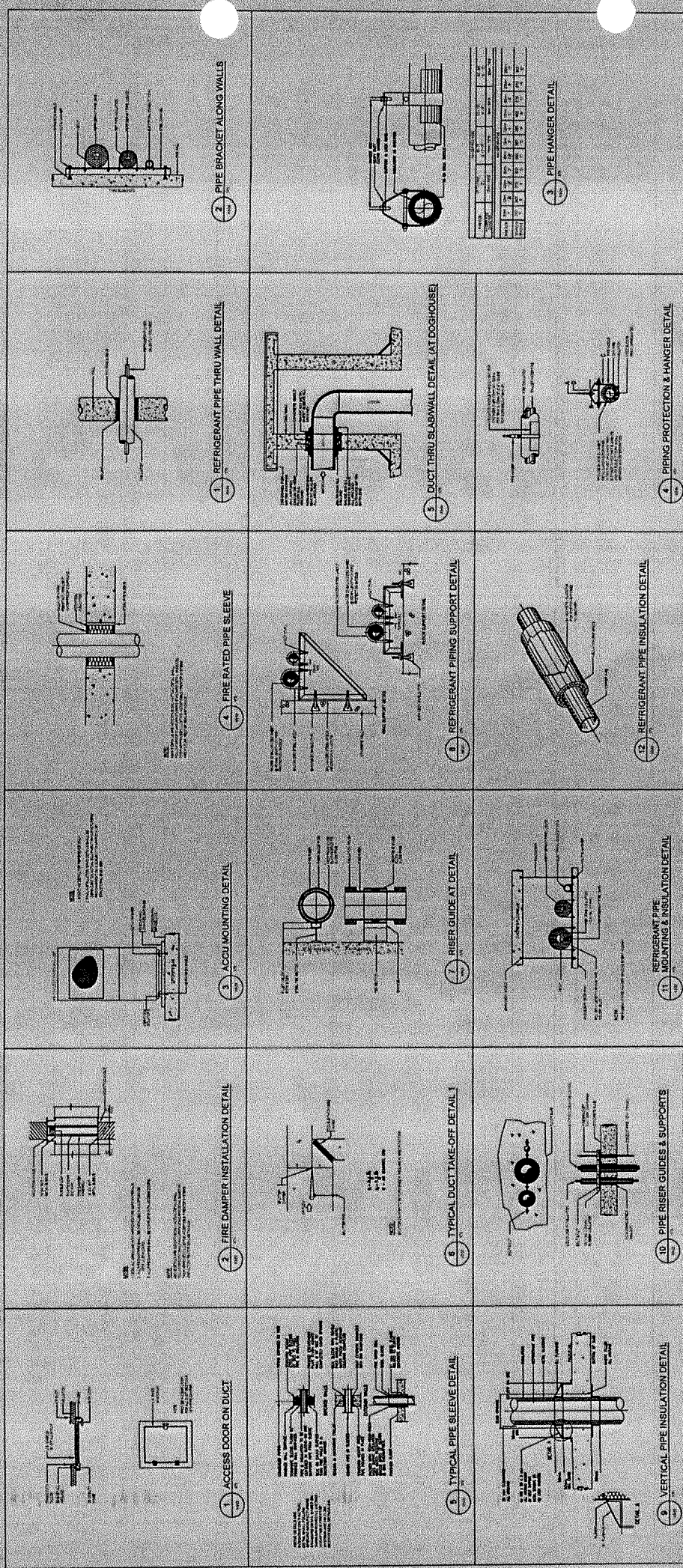


ROOF DECK
AIRCON LAYOUT
SCALE: 1:100m

 <p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE: REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p> <p>LOCATION: PCST, MANGAGAHAN, PASIG CITY</p>	<p>DESIGNED BY: <i>Jorge Latorre</i> ENGR. JORGE LATORRE INC. ELECTRONIC ENGINEERING, INC.</p>	<p>REVIEWED BY: <i>Jorge Latorre</i> ENGR. JORGE LATORRE INC. ELECTRONIC ENGINEERING, INC.</p>	<p>RECOMMENDING APPROVAL: <i>Jorge Latorre</i> ENGR. ARTA AERDIES V. GERONIMO CIVIL ENGINEER, REGISTERED PROFESSIONAL ENGINEER</p>	<p>APPROVED BY: <i>Victor M. Alegre Jr.</i> VICTOR M. ALEGRE JR. CITY MAYOR</p>	<p>SHEET NO.: E-1316</p> <p>SHEET CONTENT: AS SHOWN</p>	<p>CONFORME I ACCEPTED BY: C O R T A G O R</p>
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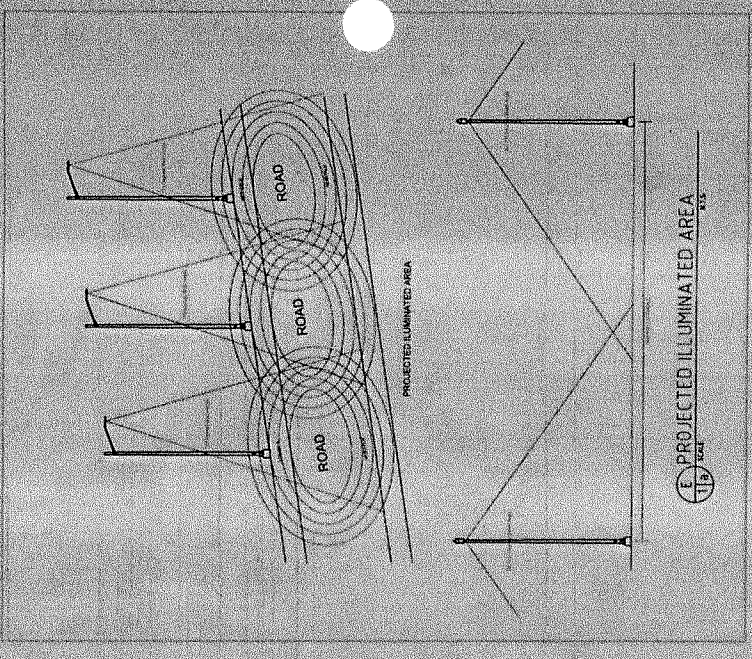
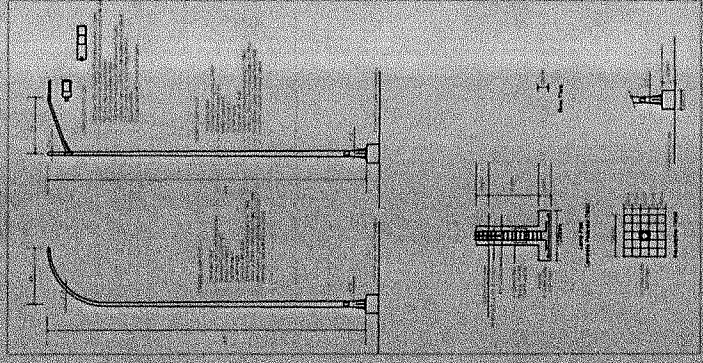
IMPORTANT NOTES:

- NO ALTERATION IN PLAN AND SPECIFICATION SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND ENGINEER.
- IN CASE OF EMERGENCY IN THE FIELD OR DRAWING, THE LATTER SHALL BE SUBMITTED. CORRECTIONS SHALL BE MADE BY THE CONTRACTOR.
- SCALE OF DIMENSIONS IN THE FIELD OR DRAWING, THE LATTER SHALL BE SUBMITTED. CORRECTIONS SHALL BE MADE BY THE CONTRACTOR.
- ANY VIOLATION OF THIS INSTRUCTION SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- PROJECT IN-CHARGE INSPECTOR MUST CHECKER THE PROJECT AT ALL TIMES IN ALL CONCERNING ACTIVITIES.
- CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEER WHO WILL BE RESPONSIBLE FOR THE PROJECT.



MECHANICAL EQUIPMENT DETAILS

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG</p> <p>OFFICE OF THE MAYOR ENGINEERING DEPARTMENT</p> <p>ELECTRICAL INFRASTRUCTURE SECTION</p>	PROJECT TITLE	REWORKING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS	LOCATION: POST MANAGARAN, PASIG CITY	ELECTRICAL	ENGINEER: ENGR. EDUARDO S. BARRUQUA JR.	CHECKED BY: ENGR. JORGE LITZON	REVIEWED BY: ENGR. ANTONIO S. PRUDENCIO	RECOMMENDING APPROVAL: ENGR. ARTAXERES V. GERONIMO	APPROVED BY: VICTOR M. NEJES N. JOTTO, CITY MAYOR	SHEET CONTENT: AS - SHOWN	SHEET NO.: E-1416
	IMPORTANT NOTES:	<p>1. NO ALTERATION IN PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROJECT AND ENGINEERS.</p> <p>2. IN ANY CASE THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONTRACT TO THE STRUCTURAL DESIGN AND DRAWING IN PLANS, THE FINAL DESIGN AND DRAWING SHALL BE IMPLEMENTED.</p> <p>3. IN CASE OF DISCREPANCY IN THE FIGURE OR DRAWING, THE MATTER SHALL BE SUBMITTED TO THE CONTRACTOR FOR CORRECTION AND ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.</p> <p>4. ANY VIOLATION OF THIS INSTRUCTION SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.</p> <p>5. PROJECT IN-CHARGE, INSPECTOR MUST CHECK THE PROJECT AT ALL TIMES AND BE RESPONSIBLE FOR THE COMPLETION OF WORK CONCERNING ACTIVITIES.</p> <p>6. CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEERS WHO WILL BE RESPONSIBLE FOR THE PROJECT.</p> <p>CONTRACTOR & ACCEPTED BY: _____ CONTRACTOR</p>									

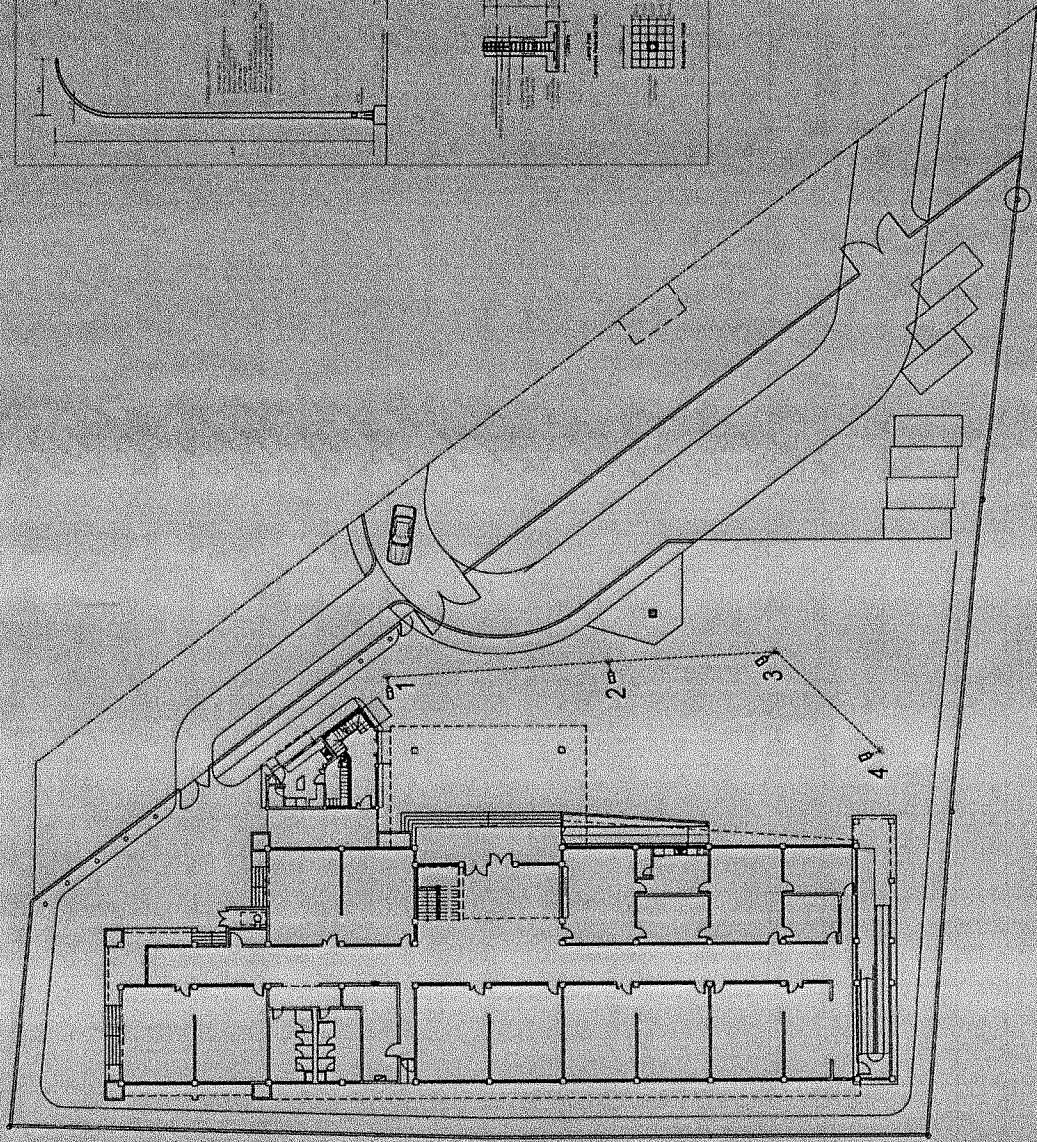


STREET LIGHTS SCOPE OF WORK

1. USE EXISTING STEEL POLES FOR THREE STREET LIGHTS
2. REPAIR OR REPLACE OLD STREET LIGHT POST
3. PROVIDE NEW CONCRETE PESTAL FOR ONE (1) STREET LIGHT
4. NEW STREET LIGHT ARM FOR FOUR (4) SETS OF STREET LIGHTS

**GROUND FLOOR
STREET LIGHTS**
SCALE

1/12



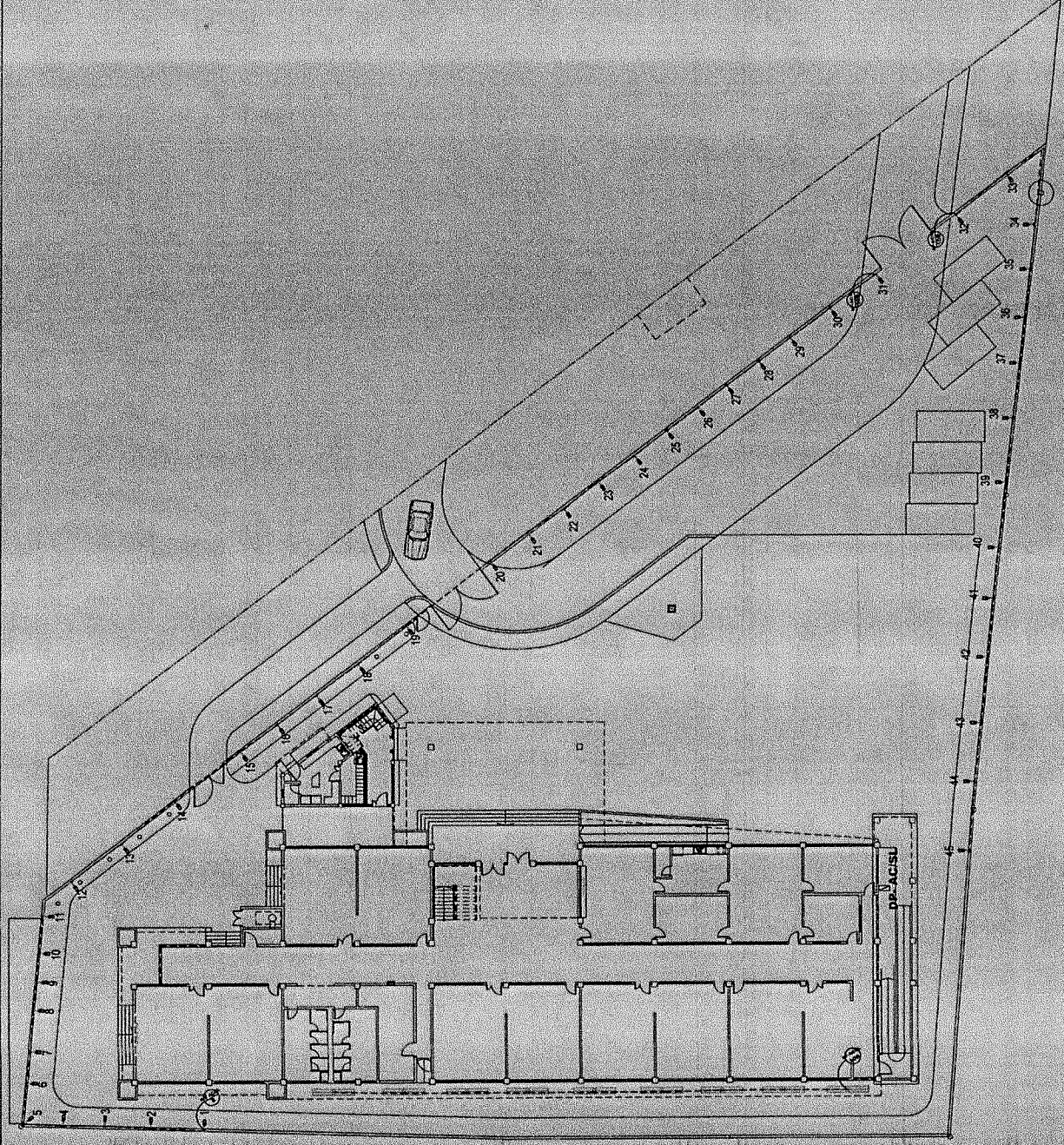
	<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS</p> <p>LOCATION: PCBT, MARGALIM, PASIG CITY</p>	<p>ELECTRICAL ENGR. EDUARDO BARRUGIA JR. REGISTERED ELECTRICAL ENGINEER</p>	<p>DESIGNED BY ENGR. JOSE LITZON REGISTERED ELECTRICAL ENGINEER</p>	<p>REVIEWED BY ENGR. ANTONIO TRUENGO REGISTERED ELECTRICAL ENGINEER</p>	<p>RECOMMENDING APPROVAL ENGR. ARTALEXIS GERONIMO REGISTERED ELECTRICAL ENGINEER</p>	<p>APPROVED BY VICTOR REGIS N. ZOTTO CITY MAYOR</p>	<p>SHEET NO. E-15116</p>
		<p>AS - SHOWN</p>					<p>SHEET CONTENT</p>	<p>SHEET NO.</p>

IMPORTANT NOTES:

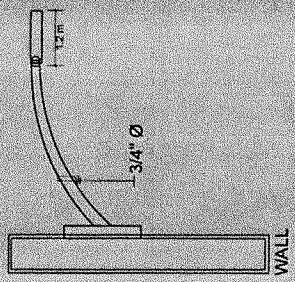
1. NO ALTERATION SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND ENGINEER.
2. IN ANY CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. ANY DAMAGE TO UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. IN CASE OF DISCREPANCIES IN THE PROJECT OR DRAWING, THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT FOR HIS/HER CORRECTIVE ACTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. ANY DAMAGE TO UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. ANY ALTERATION OF THE PROJECT SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. ANY DAMAGE TO UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES TO REMAIN. ANY DAMAGE TO UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

DATE: _____
DRAWN BY: _____
CHECKED BY: _____
APPROVED BY: _____

CONFORMED & ACCEPTED BY: _____
C O N T R A C T O R



PERIMETER LIGHTS



WALL

- PERIMETER LIGHT**
- WEATHER PROOF LIGHTING FIXTURE
 - 2 X 18 WATTS LED LAMP TUBE, DAYLIGHT, 150 LUMENS PER WATT OR HIGHER
 - Galvanized Steel
 - Hot Deep, Red Oxide Primer Paint
 - Silver Finished Paint
 - Wall bracket (fabricated) - 4ft Length with 500mm x 20mm Diameter Anchor Bolt

LEDGE LIGHTS



18W

- LEDGE LIGHT**
- WEATHER PROOF LIGHTING FIXTURE
 - 2 X 18 WATTS LED LAMP TUBE, DAYLIGHT, 150 LUMENS PER WATT OR HIGHER

GROUND FLOOR PERIMETER LIGHTS

SCALE

N.T.S.

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR ENGINEERING DEPARTMENT ELECTRICAL INFRASTRUCTURE SECTION</p>	<p>PROJECT TITLE: REPAIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS LOCATION: POST, AMBAGAWAN, PASIG CITY</p>	<p>DESIGNED BY: ENR. EDUARDO P. SARRUBA JR.</p>	<p>CHECKED BY: ENR. JORGE LUCAN</p>	<p>REVIEWED BY: ENR. ANTONIO P. PRUDENCO</p>	<p>RECOMMENDING APPROVAL: ENR. ANTONIO P. GERONIMO</p>	<p>APPROVED BY: VICTOR MA. PERIS R. SOTTO</p>	<p>SHEET CONTENT: AS - SHOWN</p>	<p>SHEET NO. E 1616</p>
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IMPORTANT NOTES:

- NO ALTERATION IN PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND ENGINEERS.
- IN CASE OF DISCREPANCY IN THE FIELD OR CONFLICT WITH THE CONTRACTOR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT IMMEDIATELY TO THE ARCHITECT'S WORK. ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.
- PROJECT IN-CHARGE INSPECTOR MUST SUPERVISE THE PROJECT AT ALL TIMES AND CONFORMING ACTIVITIES.
- CONTRACTOR SHALL PROVIDE ARCHITECT AND ENGINEERS WHO WILL BE RESPONSIBLE FOR THE PROJECT.
- CONFORM & ACCEPTED BY:
CONTRACTOR

Section VIII. Bill of Quantities

7

BID FORM

Date : _____

Project Identification No. : _____

To: **THE CHAIRMAN
BIDS AND AWARDS COMMITTEE
PASIG CITY**

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers _____ the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: **REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS AT PCIST, BRGY. MANGGAHAN, PASIG CITY;**

b. We offer to execute the Works for this Contract in accordance with the PBDs;

c. The total price of our Bid in words and figures, excluding any discounts offered below is: _____ (P _____)

d. The discounts offered and the methodology for their application are: _____;

e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,

f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;

g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ (P _____) percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹² for this purpose;

h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;

i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS AT PCIST, BRGY. MANGGAHAN, PASIG CITY** of the **Bids and Awards Committee (B.A.C.) Pasig City**

l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

SUBJECT : **BILL OF QUANTITIES / COST ESTIMATE**

NAME OF PROJECT : **REWIRING OF FEEDER LINES AND REPLACEMENT OF OLD PANELBOARDS**

LOCATION : **PCIST, BRGY. MANGGAHAN, PASIG CITY**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE (P)	AMOUNT (P)
1.0	Mobilization / Demobilization _____ (Pesos _____)	1.00	lot		
2.0	Preliminaries _____ (Pesos _____)		l.s		
A A1	Electrical Works Panel Board and Breakers _____ (Pesos _____)		l.s		
A2	Wires, Conduits, Fixtures and Boxes _____ (Pesos _____)		l.s		
B 1.0	Aircon Works Split Type Aircon _____ (Pesos _____)		l.s		
2.0	Refrigerant Works _____ (Pesos _____)		l.s		
	_____ (Pesos _____)				
Total Amount in Words: _____					
GRAND TOTAL					

(Name & Address of Bidder)

(Signature)

(Name, Designation of Authorized Signing Official)

Section IX. Checklist of Technical and Financial Documents

**Republic of the Philippines
BIDS AND AWARDS COMMITTEE
City Government of Pasig**

Name of Bidder : _____
Name of Contract : _____
Approved Budget Contract : _____
Bidding Date : _____

(Note: Checklist is to be filled up by the BAC only)

I. TECHNICAL COMPONENT ENVELOPE FOR THE PROCUREMENT OF INFRASTRUCTURE PROJECTS

Class "A" Documents

Legal Documents

- (a) Valid PhilGEPS Certificate of Platinum Registration and Membership with additional caveat in accordance with Section 8.5.2 of the 2016 Revised IRR of RA 9184 amended through GPPB Resolution No. 15-2021, provided that all of Class "A" eligibility documents submitted to PhilGEPS are maintained and updated;

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and
- (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules (Contractors under Small A and Small B categories without similar experience on the contract to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost (ARCC) of their registration based on the guidelines as prescribed by the PCAB.); and
- (d) Special PCAB License in case of Joint Ventures; and registration for the type and cost of the contract to be bid; and
- (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; and
- (f) Project Requirements, which shall include the following:
- a. Organizational chart for the contract to be bid; and
- b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data; and
- c. Duly signed Manpower Schedule; and
- d. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; and
- e. Equipment utilization schedule; and
- f. Duly signed Construction Schedule (PERT/CPM) and S-curve; and
- g. Duly signed Construction Method in narrative form; and
- h. Construction Safety and Health Program; and
- (g) Original duly signed Omnibus Sworn Statement (OSS); and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;
or
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

NOTE: Any missing document/s on the above mentioned checklist is a ground for outright disqualification/ rejection of the bid.

REMARKS:

PASSED

FAILED

ACKNOWLEDGMENT: (Please see above "note" Do not fill up/sign if documents are marked passed)

This is to acknowledge receipt of the first and second envelopes which is being returned because of disqualification due to deficiencies and non-compliance with checklist therein.

Signature over printed name/Representative of Bidder

Date Received

CHECKED AND VERIFIED BY:

SIGNATURE:

ATTY. JOSEPHINE C. LATI-BAGAOISAN
Chairperson

ATTY. DIEGO LUIS S. SANTIAGO
Vice Chairperson

DR. EMMA MEJIA-SANCHEZ
Member

ATTY. RAUL G. CORALDE
Member

MS. RUTH F. ROMANO
Member

DR. JEANNA V. PLES
Member

ENGR. JOHNNY L. CALATA
Member

Attested by:

ATTY. PONCE MIGUEL D. LOPEZ
Officer in Charge, Procurement Management Office

**Republic of the Philippines
BIDS AND AWARDS COMMITTEE
City Government of Pasig**

Name of Bidder : _____
Name of Contract : _____
Approved Budget Contract: _____
Bidding Date : _____

(Note: Checklist is to be filled up by the BAC only)

II. FINANCIAL COMPONENT ENVELOPE FOR THE PROCUREMENT OF INFRASTRUCTURE PROJECTS

(j) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

(k) Original of duly signed Bid Prices in the Bill of Quantities; **and**

(l) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**

(m) Cash Flow by Quarter.

NOTE:

Any missing document/s on the above mentioned checklist is a ground for outright disqualification/ rejection of the bid.

REMARKS:

PASSED

FAILED

ACKNOWLEDGMENT: (Please see above "note" Do not fill up/sign if documents are marked passed)

This is to acknowledge receipt of the first and second envelopes which is being returned because of disqualification due to deficiencies and non-compliance with checklist therein.

Signature over printed name/Representative of Bidder

Date Received

CHECKED AND VERIFIED BY:

SIGNATURE:

ATTY. JOSEPHINE C. LATI-BAGAOISAN
Chairperson

ATTY. DIEGO LUIS S. SANTIAGO
Vice Chairperson

DR. EMMA MEJIA-SANCHEZ
Member

ATTY. RAUL G. CORALDE
Member

MS. RUTH F. ROMANO
Member

DR. JEANNA V. PLES
Member

ENGR. JOHNNY L. CALATA
Member

Attested by:

ATTY. PONCE MIGUEL D. LOPEZ
Officer in Charge, Procurement Management Office

Bid Form for the Procurement of Infrastructure Projects
[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹² for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute

¹² currently based on GPPB Resolution No. 09-2020

and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].

- I. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION Project Identification No.: *[Insert number]* *Insert Title*

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month]* *[year]* at *[place of execution]*.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)
[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20___ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

NFCC COMPUTATION FOR ELIGIBILITY CHECK

A. Summary of the Applicant Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

		Year 20
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth(1-3)	
6.	Net Working Capital(2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC= [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, conciding with the contract to be bid.

The values of the domestic bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements (AFS) submitted to the BIR.

The Bidder shall attach the AFS to the NFCC Computation for Eligibility Check Form.

NFCC=P_____

Submitted by:

Name of Supplier/Distributor/Manufacturer

Signature of Authorized Representative

Date:_____

MARKING AND SEALING OF BIDS



PBAR

