# PHILIPPINE BIDDING DOCUMENTS

# Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL

**Project number: 22-00171** 

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

### **Notes on the Invitation to Bid**

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



# REPUBLIC OF THE PHILIPPINES QUEZON CITY GOVERNMENT D AWARDS COMMITTEE FOR INFRASTRACTS



# BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE & CONSULTANCY

2<sup>nd</sup> floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

November 25, 2022

### Invitation to Bid

No	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
Ви	ildings -	Small B					
1	22- 00160	Proposed Upgrading of Electrical System at Villa Verde Elementary School	Sta. Monica	1,283,171.56	30	Engineering Department	SDO - Loca School Board
2	22- 00161	Proposed Renovation of Four Storey SB Science Building at Carlos Albert High School	Santol	2,352,427.79	60	Engineering Department	SDO - Loca School Board
3	22- 00162	Proposed Construction of Additional Handwashing Facility and Rehabilitation of Comfort Rooms at Sinagtala Elementary School	San Antonio	2,523,866.59	60	Engineering Department	SDO - Loca School Board
4	22- 00163	Proposed Rehabilitation of Comfort Rooms at Camarilla Elementary School	San Roque	3,030,957.00	90	Engineering Department	SDO - Loca School Board
5	22- 00164	Proposed Rehabilitation of Comfort rooms at Balumbato Elementary School	Balumbat o	4,272,283.81	90	Engineering Department	SDO - Loca School Board
Б	22- 00165	Proposed Rehabilitation of Covered Court at Hobart Village HOA, Inc.	Kaligayah an	6,124,499.75	120	Engineering Department	OCM - 20%
7	22- 00166	Proposed Rehabilitation of Electrical System at Bagbag Elementary School	Bagbag	7,032,679.79	120	Engineering Department	SDO - Loca School Board
8	22- 00167	Proposed Rehabilitation of Barangay Health Center and Vargas Multi-Purpose Hall	San Agustin	7,817,907.96	90	Engineering Department	OCM - 20% CDF
9	22- 00168	Proposed Rehabilitation of HB Building at San Diego Elementary School	Batasan Hills	20,251,081.84	180	Engineering Department	SDO - Loca School Board
10	22- 00169	Proposed Rehabilitation of Bautista Building, Drainage System and Construction of Comfort Room at North Fairview High School	North Fairview	20,847,208.56	180	Engineering Department	SDO - Loca School Board

16 <b>Ro</b>	22- 00173 ads – Sr	San Bartolome High School	San Bartolome	50,033,897.53	180	Engineering Department	SDO - Local School Board
15	22- 00172	Proposed Rehabilitation of Mathay and Quezon Building of Novaliches High School	San Agustin	44,286,369.31	180	Engineering Department	SDO - Local School Board
Bu	ildings -	- Medium A					- Copanina i
14	22- 00102B	Proposed Rehabilitation of Fire Station	Project 6	1,963,027.52	60	Engineering Department	Engineering Department
13	22- 00099B	Proposed Construction of Handwashing Facility and Rehabilitation of Comfort Room at Manuel Roxas Senior High School	Paligsaha n	1,703,245.31	60	Engineering Department	Special Education Fund
12	22- 00171	Proposed Construction of Electrical Room and Upgrading of Electrical System at Don Alejandro Roces Sr. Science Technology High School	Obrero	24,253,074.13	180	Engineering Department	SDO - Loca School Board
11	22- 00170	Proposed Construction of Perimeter Fence and Upgrading of Electrical System at San Bartolome Elementary School	San Bartolome	21,320,673.64	180	Engineering Department	SDO - Local School Board

The QUEZON CITY LOCAL GOVERNMENT, through funding source of various years intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract for the above stated Projects. Bids received in excess of the ABC shall be automatically rejected at bid opening.

- The QUEZON CITY LOCAL GOVERNMENT now invites bids for the above Procurement Project. Completion of the Works is required as stated above. 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).
- Bidding will be conducted through open competitive bidding procedures using nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. – 5:00 p.m.
- 5. A complete set of Bidding Documents may be acquired by interested bidders on 28 November 2022 (Monday) from given address and website/s below and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.

### STANDARD RATES:

Approved Budget for the Contract	Maximum Cost of Bidding Documents (in Philippine Peso)
More than 1 Million up to 5 Million	5,000.00
More than 5 Million up to 10 Million	10,000.00
More than 10 Million up to 50 Million	25,000.00
More than 50 Million up to 500 Million	50,000.00
More than 500 Million	75,000.00

The following are the requirements for purchase of Bidding Documents;

- PhilGEPS Registration Certificate (Platinum 3 Pages)
- Document Request List (DRL)
- 3. Authorization to purchase bidding documents
  - 3.1 Secretary's Certificate (for corporation)
  - 3.2 Special Power of Attorney (for sole proprietorship)
- 4. Notarized Joint Venture Agreement (if applicable)
- 5. Letter of Intent

It must be duly received by the BAC Secretariat at 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The QC-BAC-INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference<sup>1</sup> on December 6, 2022 at 9:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) which shall be open to prospective bidders.

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

 Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before December 19, 2022 – 9:00 AM. Late bids shall not be accepted.

May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

- All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
- Bid opening shall be on December 19, 2022 10:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

- 10. The Quezon City Local Government 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.
- 11. For further information, please refer to:

### ATTY, DOMINIC B. GARCIA

OIC, Procurement Department 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound Elliptical Road, Barangay Central Diliman, Quezon City. Tel. No. (02)8988-4242 loc. 8506/8710 Email Add: bacinfra.procurement@quezoncity.gov.ph

Website: www.quezoncity.gov.ph

12. You may visit the following websites:

For downloading of Bidding Documents: <a href="https://quezoncity.gov.ph/public-notices/procurement/">https://quezoncity.gov.ph/public-notices/procurement/</a>

By:

ATTY. MARK DALE DIAMOND P. PERRAL Chairman, BAC-Infra and Consultancy

# Section II. Instructions to Bidders

### **Notes on the Instructions to Bidders**

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

### 1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL, with Project Identification Number 22-00171.

[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 2022 in the amount of Twenty-Four Million Two Hundred Fifty-Three Thousand Seventy-Four Pesos and 13/100 Ctvs. (P 24,253,074.13).
- 2.2. The source of funding is:
  - a. 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 Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

### a. Subcontracting is not allowed.

- 7.1. [If Procuring Entity has determined that subcontracting is allowed during the bidding, state:] The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. [If subcontracting is allowed during the contract implementation stage, state:] The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the

implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

7.3. 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 on **December 6**, 2022, 9:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

### 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 in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government. 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 5 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 15 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

### **Notes on the Bid Data Sheet (BDS)**

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

# **Bid Data Sheet**

ITB Clause					
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.				
7.1	Subcontracting is not allowed.				
10.3	No additional contractor license or permit is required  In addition, eligible bidders shall qualify or comply with the following:				
	Bidders with valid Philippine Contractors Accreditation Board (PCAB)  Type				
	Building - Small B				
10.4	The minimum work experience requirements for key personnel are the following:				
	Qnty. Key Personnel General Experience Relevant Experience				
	1 Project Manager 3 years 3 years				
	1 Project-in-Charge 3 years 3 years (Project Engineer)				
	1 General Foreman 3 years 3 years				
	1 Trade Engineer/Leadman 3 years 3 years for civil works				
	1 Trade Engineer/Leadman 3 years 3 years for electrical works				
	1 Safety Officer 3 years 3 years				
	In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.				
The minimum major equipment requirements are the following:					
	Equipment Capacity Number of Units				
	Dump Truck2Jackhammer1Backhoe1				
	In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for				

	the project until its completion. Please see attached bid forms.
12	[Insert Value Engineering clause if allowed.]
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:
	a) The amount of not less than Php 485,061.48 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or
	b) The amount of not less than Php 1,212,653.71 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
19.2	<b>Partial bid is not allowed.</b> The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	No additional requirement.
21	Additional Contract Documents relevant to the Project as required:
	1. Construction Schedule and S-curve,
	2. Manpower Schedule,
	3. Construction Methods,
	4. Equipment Utilization Schedule,
	5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.

# Section IV. General Conditions of Contract

### **Notes on the General Conditions of Contract**

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contractor, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special 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

### **Notes on the Special Conditions of Contract**

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

# **Special Conditions of Contract**

GCC Clause	
2	Completion of work shall be within 180 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: [list here the required site investigation reports.]
7.2	[Select one, delete the other.]
	[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.
	[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.
	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is thirty (30) days  The date by which "as built" drawings are required as part of final payment
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 ten (10%) percent of the contract price.

# Section VI. Specifications

### **Notes on Specifications**

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

### Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.



### Replublika ng Pilminas Lungsod ng Quezon

### CITY ENGINEERING DEPARTMENT

5<sup>TH</sup>, 6<sup>TH</sup>, 7<sup>TH</sup> Floors, QC Civic Center Building 18\* Telephone Nos. 8988-4242 Local 8538



PROJECT TITLE .

PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE

TECHNOLOGY HIGH SCHOOL

LOCATION:

BARANGAY OBRERO, DISTRICT 4, QUEZON CITY /

### **TECHNICAL SPECIFICATIONS**

### GR. GENERAL REQUIREMENTS

- A. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations, and standards. Any works performed contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost ansing therefrom
- Drawings, specifications codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- D. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location, to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- F. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as detective.
- G. All equipment and installations shall meet or exceed minimum requirements of the standards and codes
- H. Mobilization and Demobilization (if applicable)
  - Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
  - Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site apecifically for this contract.
- Execute work in strict accordance with the best prectices of the trades in a thorough, substantial, workmantike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behelf of the Contractor.
- J. Temporary Facilities and Utilities
  - 1 All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.

- 2 Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication
- 4 Temporary enclosure shall be provided around the construction site with adequate guard lights, rattings and proper signage.
- 5 Temporary roadways shall be constructed and maintained to sustain loads to be carned on them during the entire construction period
- Upon completion of the work, the temporary facilities shall be demolished, healed-out and disposed properly.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property
  - A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solety to medical duties.
  - The medical room shall be provided with waterproofing; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 aquare meters and a glazed window area of at least 2 square meters.
  - The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site.
  - Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed
  - Construction safety shall consist of construction canopy and safety net
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- M Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

### SW. SITE WORKS

- A. All grades lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing work.
- B. This Item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings fences, structures, old peverients, abandoned pipe lines and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract.
  - Removal and/or demolition of existing structures shall be done in accordance to safety procedures.
- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.

The Contractor shall notify the Engineer sufficiently in advance of the beginning of any excavation so that cross-sectional elevations and measurements may be taken on the undisturbed ground. The natural ground adjacent to the structure shall not be disturbed without permission of the Engineer.

Tranches or foundation pits for structures or structure footings shalt be excavated to the lines and grades or elevations shown on the Plans or as staked by the Engineer. They shall be of sufficient size to permit the placing of structures or structure footings of the full width and length shown. The elevations of the bottoms of footings, as shown on the Plans, shall be considered as approximate only and the Engineer may order, in writing, such changes.

in dimensions or elevations of footings as may be deemed necessary, to secure a satisfactory foundation.

Boulders, logs, and other objectionable materials encountered in excavation shall be removed.

After each excevation is completed, the Contractor shall notify the Engineer to that effect and no fooling, bedding material or pipe culvert shall be placed until the Engineer has approved the depth of excavation and the character of the foundation material.

D. All excavated materials, so far as surfable, shall be utilized as backfill. The surplus materials shall be disposed of in such manner as not to obstruct the stream or otherwise impair the efficiency or appearance of the structure. No excavated meterials shall be deposited at any time so as to endanger the partly finished structure.

All backfills shall be placed in layers not exceeding to 150mm in thickness and each tayer shall be thoroughly compacted by wetting, tamping and rotting

### CWS. CIVIL / STRUCTURAL WORKS

### CWSMA05. CONCRETE WORKS

- Delivery, Storage, and Handling: All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shell be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.
- 2. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

### 3 Meteries

- Cament for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C = 150)
- b. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, ecids, elkaline, organic materials or other substances that may be deleterious to concrete or steel.
- Fine aggregates shall be beach or river send conforming to ASTM C33, 'Specification for Concrete Aggregates'. Send particle shall be course, sharp, cleen free from salt, dust, foam, dust and all foreign matters.
- d Coarse aggregates shall be either natural gravel or crushed rock conforming to the 'Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be targer than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.

### Proportioning and Mixing.

 Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions.

Cement: Sand: Gravel Class "A" - 1, 2; 3 Class "6" - 1, 2, 4 Class "C" - 1; 2, 1/4

 Concrete mixture to be used for concrete shall conform with the structural requirements c. Mixing – concrete shell be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the apprepales.

### 5 Forms

- a General Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete, Forms shall be ½" (6mm) thick ordinary plywood and form lumber.
- Cleening of Forms before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of morter, the grout or other foreign material.
- c. Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

### 6. Placing Reinforcement.

Steel reinforcement shall be provided as indicated, together with all necessary trewires, chairs, spacers, supports and other devices necessary to install and secure the reinforcement property. All reinforcement, when placed, shall be free from loose, flaky rust and scale, oil, grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

### 7 Conveying and Placing Concrete:

- a. Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- Placing concrete shall be worked readily into the comers and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded stems, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- c. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- d. Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near

the forms makes placing difficult, a layer of mortar of the same cement-send ratios as used in concrete shall be first deposited to cover the surfaces

### 8 Curing

- a General All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.
- Moist Curing The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

### 9. Finishing

- a. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.
- b. Concrete Stabs on Fill. The concrete stabs on fill shalt be taid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying stab except when indicated.

### CWSMA. MASONRY WORKS

- 1. Masonry Units (Concrete Hollow Blocks):
  - 100mm thick for all interior walls and 150mm thick for all exterior walls unless otherwise indicated.
  - Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.
  - c. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns and lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height and other considerations.

### 2. Sand:

S-1, washed, clean and greenish in color.

#### Mortar:

One part Portland cement and two parts sand and water but not more than three parts sand and water.

### 4. Reinforcement

The concrete hollow blocks shall be reinforced with 10mm diameter deformed bar, spaced not more than 0.8m on centers, both ways

#### Plaster bond.

The mixture of cament plaster for concrete hollow block wall finishes indicated in the drawings shall be one part Portland cement and three parts sand.

Floor Topping Preparation for Tilework. One part Portland cement and two parts sand and water but not more than three parts sand and water.

### AW. ARCHITECTURAL WORKS

#### AWP. PAINTING WORKS

- Paint Materials. All types of paint material and other retated products shall be subject to test as to material composition by the Bureau of Research and Standard, DPWH or the National Institute of Science and Technology.
- Tinting Colors. Tinting colors shall be first grade quality pigment ground in alkyd resinthal disperses and mixes easily with paint to produce the color desired. Use the same brand of paint and tinting color to effect good paint body.
- Skim coat. Skim coat shall be fine powder type material like kalsomine that can be mixed into putty consistency, with oil-based primers and paints to fill minor surface dents and imperfections.
- 4. Peint Schedule.
  - a. Exterior Masonry Wall (plain cament plastered finish to be painted)
    - i 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish
  - Interior Masorry Wall (plain cement plastered finish to be painted).
    - i 1 coat skim coating, 1 coat primer, 2 coats latex paint finish.
  - c. Interior Dry Wall
    - 1 coat primer. 2 costs latex paint finish.
  - d. Ceiling Boards
    - i 1 coal primer, 2 coats latex paint finish
  - e. Slab Soffit
    - 1 coat primer, 2 coats latex paint finish.
  - Metal / Steel Surfaces
    - i. 1 cost primer, 2 costs epoxy enamel finish.
- 5 Surface Preparation. All surfaces shall be in proper condition to receive the finish Woodworks shall be hand-sanded smooth and dusted clean. All knot-holes pitch pockets or sappy portions shall be seeled with natural wood filler. Nail holes, cracks or defects shall be carefully puttied after the first coat, matching the color of paint.

Interior woodworks shall be sandpapered between coats. Cracks, holes of imperfections in plaster shall be filled with patching compound and smoothed off to match adjoining surfaces.

Concrete and masonry surfaces shall be coated with concrete neutralizer and allowed to dry before any painting primer coat is applied. When surface is dried apply first coating. Hairline cracks and unevenness shall be patched and sealed with approved pulty or patching compound. After all defects are corrected apply the firish coats as specified on the Plans (color scheme approved).

Metal shall be clean, dry and free from mill scale and rust. Remove all grease and oil from surfaces. Wash, unprimed galvanized metal with etching solution and allow it to dry. Where required to prime coat surface with Red Lead Primer same shall be approved by the Engineer.

In addition, the Contractor shall undertake the following:

- Voids, cracks, nickletc, will be repaired with proper patching material and finished flushed with surrounding surfaces
- Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
- c. Panting and vamishing works shall not be commenced when it is too hot or cold.
- d. Allow appropriate ventilation during application and drying period
- All hardware will be fitted and removed or protected prior to painting and varnishing works
- Application. Paints when applied by brush shall become non-fluid, thick enough to lay down as adequate film of wet paint. Brush marks shall have flawed out after application of paint.

Paints made for application by roller must be similar to brushing paint. It must be nonsticky when thinned to spraying viscosity so that it will break up easily into droplets

Paint is atomized by high pressure pumping rather than broken up by the large volume of air mixed with it. This procedure changes the required properties of the paint.

- Application shall be as per paint Manufacturer's specification and recommendation.
- Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, tirishes and other works.
- All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- 10 All surfaces including mesonry wall shall be thoroughly cleaned, putted, sandpapered, rubbed and polished, masonry wall shall be treated with Neutralizer
- All exposed finish hardware, lighting fixtures and eccessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- 12 All other surfaces endengered by steins and paint marks should be taped and covered with craft paper.

### EW. ELECTRICAL WORKS

### A. CONDUITS, BOXES AND FITTINGS

 This item shall consist of the furnishing and installation of the complete conduit work, consisting of electrical conduits; conduit boxes such as junction boxes, pull boxes, utility boxes, octagonal and square boxes; conduit fittings, such as couplings, locknuts.

- and bushings and other electrical materials needed to complete the conduit roughingin work of this project
- All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark
- Alt works throughout shall be executed in the best practice in a workmanlike manner
  by qualified and experienced electricians under the immediate supervision of a duly
  beensed Electrical Engineer.
- 4. The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
- All lighting fixtures and tamps are as specified and listed on lighting fixture achedule.
- 6. All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
- All auxiliary systems such as telephone and intercom system, time clock system, fire alarm system and public address/nurse's call/paging system installations shall be done in accordance with the approved design.
- Upon completion of the electrical construction work, the contractor shall provide all test equipment and personnel and to submit written copies of all test results.

# 9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

### **B. WIRES AND WIRING DEVICES**

- This Item shall consist of the furnishing and installation of all wires and wiring devices
  consisting of electric wires and cables, wall switches, convenience receptacles, heavy
  duty receptacles and other devices shown on the approved Plans but not mentioned
  in these specifications
- 2. Wires and cabtes shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark. Unless specified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts. All wires shall be copper, soft drawn and annealed, smooth and of cylindrical form and shall be centrally located inside the insulation.
- 3. Conductors or wires shall not be drawn in conduits until after the cement plaster is dry and the conduits are thoroughly cleaned and free from dirt and moisture. In drawing wires into conduits, sufficient slack shall be allowed to permit easy connections for fixtures, switches, receptacles and other wiring devices without the use of additional splices.
- 4. All conductors of convenience outlets and lighting trianch circuit homeruns shall be wired with a minimum of 3.5 mm in size. Circuit homeruns to panelboards shall not be smaller than 3.5 mm but all homeruns to panelboard more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size.
- All wires of 14mm and larger in size shall be connected to panels and epparatus by means of approved type lugs or connectors of the solderless type, sufficiently large

- enough to enclose atlistrands of the conductors and securely fastened. They shall not loosen under vibration or normal strain.
- 6 All joints, taps and splices on wires larger than 14 mm shall be made of suitable solderless connectors of the approved type and size. They shall be taped with rubber and PVC tapes providing insulation not less than that of the conductors.
- 7 No splices or joints shall be permitted in either feeder or branch conductors except within outlet boxes or accessible junction boxes or pull boxes. All joints in tranch circuit wring shall be made mechanically and electrically secured by approved splicing devices and taped with rubber arid PVC tapes in a manner which will make their insulation as that of the conductor.
- 8. All wall switches and receptacles shall be fifted with standard Bakelite face plate covers. Device plates for flush mounting shall be installed with all four edges in continuous contact with flushed wall surfaces without the use of coiled wire or similar devices. Plaster filling shall not be permitted. Plates installed in wet locations shall be gasketed.
- When more than one switch or device is indicated in a single location, gang plate shall be used

#### C. POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS

- This Item shall consist of the furnishing and installation of the power load center unit substation or low voltage switchgear and distribution panelboards at the location shown or the approved Plans complete with transformer, circuit breakers, cabinets and all accessories, completely wired and ready for service.
- 2 Att materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Stendard Agency (PSA) mark
- Power Load Center Unit Substation. The Contractor shall furnish and install an indoortype Power Load Center Unit Substation at the tocation shown on the approved Plans if required. If shall be totally metal-enclosed, dead front and shall consist of the following coordinated component parts:
  - a High Voltage Primary Section. High voltage primary incoming line section consisting of the following parts and related accessories:
    - i. One (1) Art-filled Interrupter Switch, 2-position (open-close) installed in a suitable air Illied metal enclosure and shall have sufficient interrupting capacity to carry the electrical load. It shall be provided with key interlock with the cubicle for the power fuses to prevent access to the fuses unless the switch is open.
    - Three (3)-power fuses mounted in separate compartments within the switch housing and accessible by a hinged door.
    - One 1) set of high voltage patheads or 3-conductor cables or three single conductor cables.
    - iv. Lightning arresters shall be installed at the high voltage cubicle if required.
    - Rems (i) and (ii) above could be substituted with a power circuit breaker with the correct rating and capacity
  - b Transformer Section. The transformer section shall consist of a power transformer with ratings and capacities as shown on the plans. It shall be oil figuid-filled nonflemmable type and designed in accordance with the latest applicable standards.
    - The transformer shall be provided with four (4) approximately 2 1/2 % rated KVA taps on the primary winding in most cases one (1) above and three (3) below rated primary voltage and shall be changed by means of externally gang-operated

manual tap changer only when the transformer is de-energized. Tap changing under load is acceptable if transformer has been so designed.

The following eccessories shall be provided with the transformer, namely: drain valve, sampling device, filling connection, oil liquid level gauge, ground pad, top filter press, connection, lifting lugs, diagrammatic nameplate, relief valve, thermometer and other necessary related accessories.

The high-voltage and low-voltage bushings and transition flange shall be properly coordinated for field connection to the incoming line section and low voltage switchboard section, respectively.

- c. Low Voltage Switchboard Section. The low-voltage switchboard shall be standard moduler-unitized units, metal-built, dead front, safety type construction and shall consist of the following:
  - i. Switchboard Housing. The housing shall be heavy gauge steel sheet, dead front type, grey enamel finish complete with frame supports, steel bracings, steel sheet panelboards, removable rear plates, copper busbars, and all other necessary accessories to insure sufficient mechanical strength and safety. It shall be provided with grounding botts and clamps.
  - ii. Secondary Metering Section. The secondary metering section shall consist of one (1) ammeter, AC, indicating type; one (1) voltmeter. AC, indicating type, one (1) ammeter transfer switch for 3-phase; one (1) voltmeter transfer switch for 3-phase, and current transformers of suitable rating and capacity.

The above-mentioned instruments shall be installed in one compartment above the main breaker and shall be complete with all necessary accessories completely wired, ready for use

Main Circuit Breaker. The main excuit breaker shall be draw-out type, manually or electrically operated as required with ratings and capacity as shown on the approved Plans.

The main breaker shall include insulated control switch if electrically operated, manual trip button, magnetic tripping devices, adjustable time overcurrent protection and instantaneous short circuit trip and all necessary accessories to insure safe and efficient operation.

iv. Feeder Circuit Breakers. There shall be as many feeder breakers as are shown on the single tine diagram or schematic riser diagram and schedule of loads and computations on the plans. The circuit breakers shall be drawout or molded case as required. The circuit breakers shall be drawout or interrupting capacity and shall be manually operated complete with trip devices and all necessary accessories to insure sale and efficient operation. The number, ratings, capacities of the feeder branch circuit breakers shall be as shown on the approved Ptene.

Circuit breakers shall each he of the indicating type, providing 'ON' - "OFF and "TRIP" positions of the operating handles and shall each be provided with nameptate for branch circuit designation. The circuit breaker shall be so designed that an overload or short on one pole automatically causes all poles to open.

- d Low Voltage Switchgeor (For projects requiring low-voltage switchgear only). The Contractor shall furnish and install a low-voltage switchgear at the location shown on the plans. It shall be natal-clad, dead front free standing, safety type construction and shall have copper busbars of sufficient size, braced to resist allowable root mean square (RMS) symmetrical short circuit stresses, and all necessary accessories. The low-voltage switchgear shall consist of the switchgear housing, secondary metering, main breaker and feeder branch circuit.
- Grounding System All non-current carrying metallic parts like conduits, cabinets
  and equipment frames shell be properly grounded in accordance with the
  Philippine Electrical Code, latest edition.

The size of the ground rods and ground wires shall be as shown on the approved Plans. The ground resistance shall not be more than 5 ohms.

f. Panelboards and Cabinets. Panelboards shall conform to the schedule of panelboards as shown on the approved Plans with respect to supply characteristics, rating of main lugs or main circuit breaker, number and ratings and capacities of branch circuit breakers.

Panethoards shall consist of a factory completed; dead front assembly mounted in an enclosing flush type cabinet consisting of code gauge galvanized sheet steel box with trans and door. Each door shall be provided with catch lock and two (2) keys. Panethoards shall be provided with directories and shall be printed to indicate load served by each circuit.

Panelboard cabinets and trims shall be suitable for the type of mounting shown on the approved Plans. The inside and outside of panelboard cabinets and trims shall be factory painted with one rust-proofing primer coat and two finish shop coats of pearl gray ename?

paint.

Main and branch circuit breakers for panelboards shall have the rating, capacity and number of poles as shown on the approved Plans. Breakers shall be thermal magnetic type. Multiple breaker shall he of the common trip type having a single operating handle. For 50-empere breaker or less, it may consist of single-pole breaker permanently assembled at the factory into a multi-pole unit.

 The Contractor shall install the Power Load Center Unit Substation or Low-Voltage Switchgear and Panelboards at the locations shown on the approved Plans.

Standard panels and cabinets shall be used and assembled on the job. All panels shall be of dead front construction furnished with trims for flush or surface mounting as required.

- D. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction the rules, regulations and requirements of the utility companies (as applicable).
- E. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- F. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- G. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.
- H. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

### I. PANELBOARDS

- 1 Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
  - Rated for environmental conditions at installed location.
    - Indoor Dry and Clean Locations: NEMA, Type 1
    - ii Outdoor Locations: NEMA, Type 3R.
    - ilt Kitchen and Wesh-Down Areas: NEMA, Type 4X, stainless steel.

- iv Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncomosive Liquids. NEMA, Type 12.
- Outdoor Locations Subject to Oust, Falling Dirt, and Dripping Noncorresive Liquids NEMA, Type 5R.
- Front: Secured to box with concealed trim clamps. For surface-mounted fronts match box dimensions; for flush-mounted fronts, overlap box.
- Hinged Front Cover. Entire front trim tringed to box and with standard door within hinged trim cover.
- d. Skirt for Surface-Mounted Panelboards. Same gauge and finish as panelboard front with flanges for ettechment to panelboard, well, and ceiling or floor.
- Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.

#### f. Finishes:

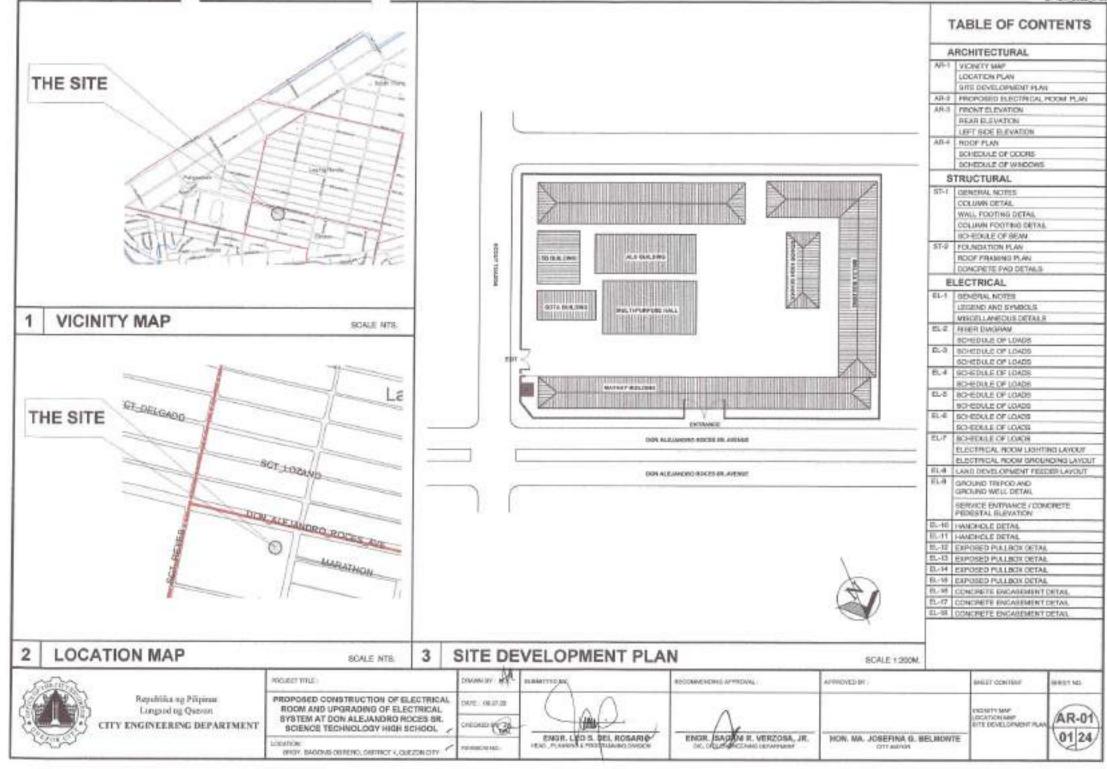
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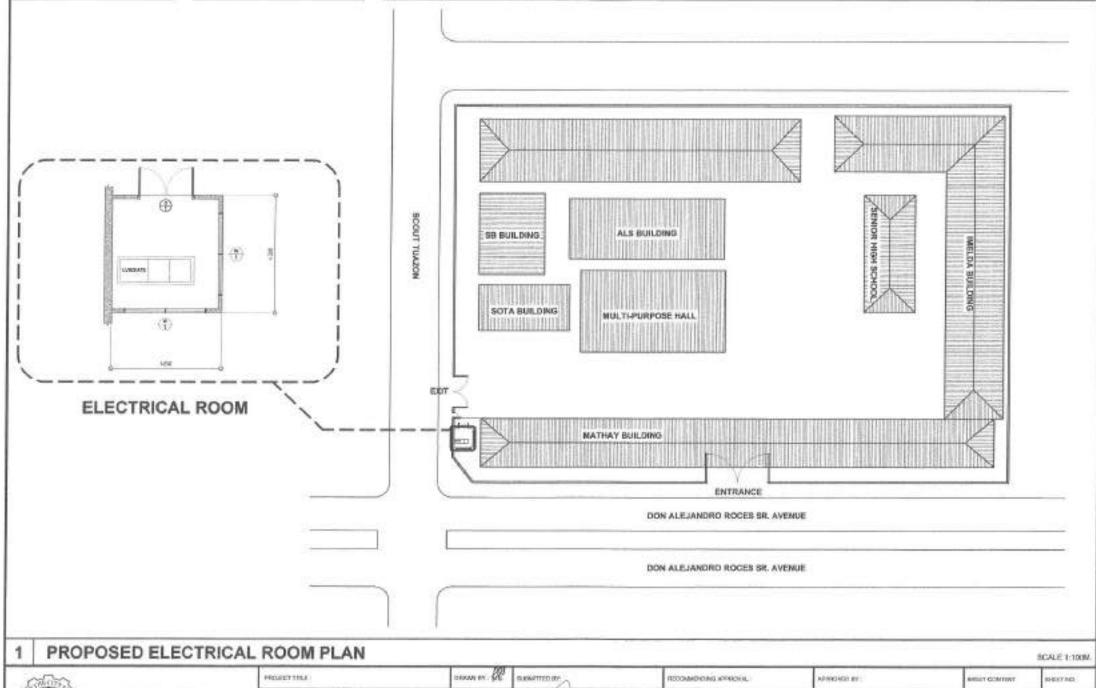
- Panels and Thm: Steel and galvanized steel, factory finished immediately
  after cleaning and pretreating with manufacturer's stendard two-coat,
  baked-on finish consisting of prime coat and thermosetting topcost
- Back Boxes: Galvanized steel Same finish as panels and trim.
- Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- g. Directory Card Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.
- Incoming Mains Location: Top or Bottom.
- Phase Neutral and Ground Buses:
  - Material: Hard-drawn copper, 98 percent conductivity.
  - Equipment Ground Bus. Adequate for feeder end branch-circuit equipment grounding conductors; banded to box.
  - c. Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

JONATHAN/L, PELA CRUZ Planning and Programming Division JOCELYN A. NAONG
Planning and Programming Division

# Section VII. Drawings

[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]







Republika ng Pilipinas Langsoding Quezon CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL

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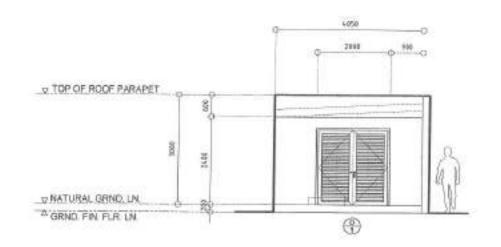
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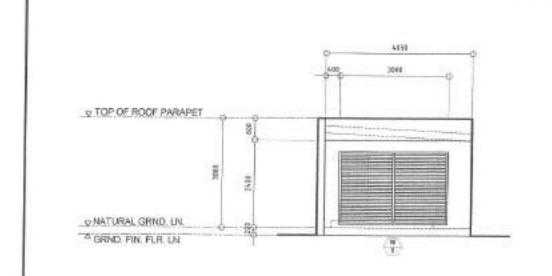
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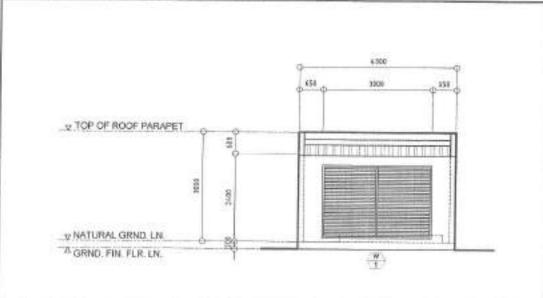
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### FRONT ELEVATION

SCALE 1:75M.





### REAR ELEVATION

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LEFT SIDE ELEVATION

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BCALE 1:75M. DESTRUCTION.

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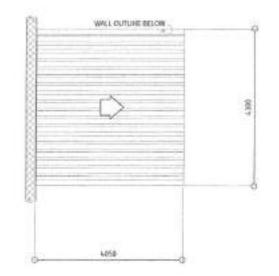
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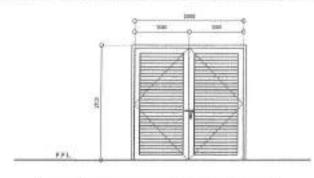
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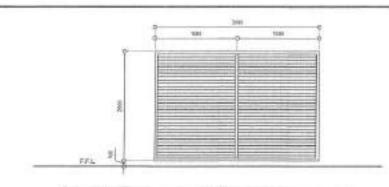


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### 2 SCHEDULE OF DOORS

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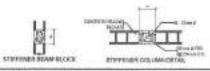
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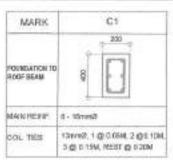
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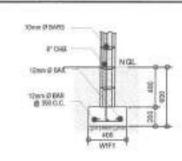
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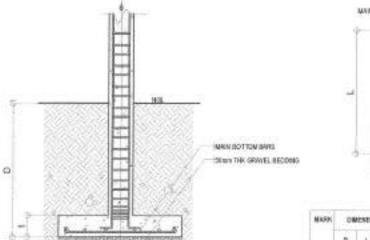


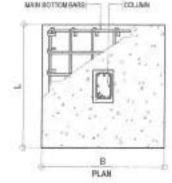


### **COLUMN DETAIL**

### WALL FOOTING DETAIL

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### SCHEDULE OF BEAM

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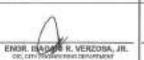
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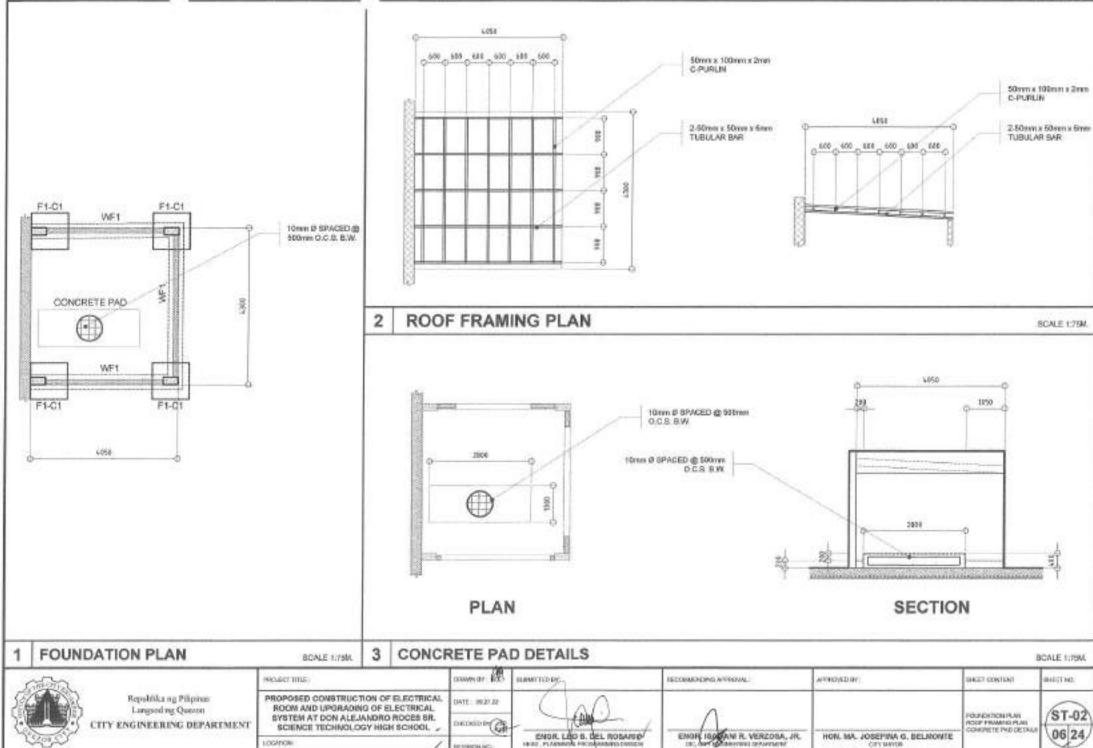
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- 2. ALL WORKS SHILL BE SUPERVISED BY A RESISTERS PROFESSIONAL PELATES TO THE ACTIVITIES BOING
- 1. ALL WORKS SHALL BE COOPERATED WITH THE RESPECTIVE TRADES SO TO AVOID COMFLICTS DURING EXECUTION OF ACTIVESS.
- A. ALL RECESSARY PETMITS SHALL BE SECURET AND TANNED ONES TO THE CITY.
- 5. ALL DRAWBACE AND SFECFICATIONS SHALL SE CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL HIMIODATELY BE INFORMED IF DISCREPANCY (KIS) FOUND VEHICLE.
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- F. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE ELECTRON.
- 5. ALL WORKS SHALL SETTESTED AND COMMISSIONES AS INSPEATED IN THE SPECIFICATIONS WITH THE PRESENCE. OF ALL PARTIES INVOLVED RESULTS SHALL BE DOCUMENTED PROPERLY.
- # ALL PIPES AND LAYOUT ARE CHILY DINGRAMMATIC, ACTUR, LAYOUT OF PIPES AND FOTINGS, UNLESS OTHERWISE REGULFED, WHALL BE PROPERLY CONCERLED.
- TENO PIPES SHALL HE ALLOWED TO BE EMBEDDED IN STRUCTURAL HE MISERS LINLESS OTHERWISE APPROVED.
- I LALL PAPES, FITTINGS, ECUPMENT AND FOTURES BHALL BE INSTALLLED IN ACCORDANCE TO MANUFACTURISHS. SPECIFICATIONS AND METRICITIONS
- 13.8U/PORTS IND HIPOBYS SHALL BE PROVIDED ACCORDINGLY.
- TO AUGUSTAVENTO AND POTTURES SHALL BE ENVIRONMENTAL PRODUCT

#### HARSTILLATION OF SERVICE ENTRANCE

- 14.1. THE TYPE OF SERVICE EMTRANCE SHALL BE SHOLE PHANE TWO WIRE PLUS ORDING, WHERTZ, 2007
- 142. THE SERVICE ENTRANCE EQUIPMENT SHALL BE PROPERLY CHOLADED IN ACCORDANCE WITH THE THE PRINT IS SCHOOL SOME
- 14.5 THE MAIN CHEROLIFRONT PROTECTION DEVICE SHALL BE OF THERMAL MAGNETIC INCIDEN ARMA SK MIDATHERPROOF ENGLISHES.

#### STAILTALLATION OF LIGHTING AND POWER SHITTEN

- 16.1. ALL LIGHTING AND CONVENIENCE DUTLET CIRCUITS SHALL BE 1.5 KL MM. TH-MITHING COPPER MINE. UNLESS OTHERWISE NOTED MANAGE SET OF MARK SHALL BE 1.5 SO, MAL CONTREMED ALL WIRES AND DABLES BHILL BE DOLDE CODED AS POLICIUS:
  - UNEX 38,800 NEWTRAL -WHITE GROUND. KERRO -
- 15.7 ALL SWEET/CO GRAVICH GROUTS SHALL SE FAT COMPLETS AND FOR EUROSID INSTALLATION SHALL BE INC SUPPORTED BY CONDUIT CLAMPS EXERY TROMILIMETERS WILLION CONDUIT HANGER SUPPORTS INVERV
- NO. CONDUCTS IN NO CILIE SHALL NOT BE MORE THAN THE BOSHOLENT OF FOUR QUARTER BENGS IN ANY ONE RUM ALL CONDUIT BENDS SHALL BE FIELD WADE BY USING HYDRIALUC BENDERS. WINMAN BENDING HACKES MUST BE IN ACCOMPANCE TO THE CODE REQUIREMENTS.
- 15.4. ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PRIVALED, SLOTS FOR 208 V.
- 15.5. PROVIDE GROUND FAILT CLIRRONT INTERPLETION CIRCLIT SHEARER FOR LOADS MIRRISO SPECY ON THE FLAM
- 15.8. ALL METALLIC CONDUCTS, ENVICENCES, CIENTING PIXTURES, PARELEXAMON, EXCUPRIENTS AND ADDITIONARIEST CARRYING MICHAL PARTS SHALL BE PROMISELY GROUNDED AND BORDED.

15.8 ALL MOUNTING HEIGHTS FOR WILL MOUNTED DEVICES SHALL BE AS POLICIAS:

TURNIN AGENT MOTIVING COUNTER.

- 4. LIGHTING SWITCH - 1400 MBLASONE PLOOR FINSH - DECEMBRANCINE PLECOR DIVISIA
- PANELBOARD AND CHEMICIS SAME MALABOVE ROOR FINISH END MONT . 150 Min TOP OF DOOR MARK E. EMERGEGILDHI 7897 ABOVE FLOOR EMERGENCY
  - 15.1. PULL BOXES SHALL BE WHERE HER RECESSARYTO FACILITATE MIRE PLALING EVEN IF THESE ARE NOT
  - 15.3 FOR EACH SPACE BRANCH CROUT IN PARIEURID, PROVIDE ONE SHAW SHAWETER SUFFY DOKELET TERMINATED TO TIMM OCTACONA: BOX ABOVE CELLING, MINIMUM SIZE OF PUBLISOR DAMA, BE 150KM X150KM
  - 953. ALL DIRECTORIGATIONS SHALL BE DOLT-ON PAYER WITH MITCHISCPPING CAPACITY AS INDICATED IN THE PLANS PANELSON/RDS SHALL BE SALKINGZED SHEET FOWER COATED GAGE 15 NOVALAN.
  - 15.4. REEDER AND BRANCH CRICUIT CONDUCTORS IN CASLE TRAYS SHALL SE CROUPED BONDED AND TACCRD TO MORCHTE CLEARLY THE ELECTRICAL CHARACTERISTICS BACH AS CIRCUIT HEMBER AND PAREL DESCRIPTION
  - 15.5 REPER TO INCOMINGAL, RUBBING AND FIRE PROTECTION CRAWINGS FOR PARTIES AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL RESIDENCES AN OPECPTED AND OR SHOWN UNDER THEIR
  - 15.6. ALL MATERIALS TO SELUSES AND THE EQUIPMENT TO BE INSTALLED SHALL HE OF THE REST QUALITY. BRAND NEW AS SPECIFIED IT MUST BE IMPROVED THEF FOR THE PARTICULAR LOCATION AND RURPON.
- 15 MSTALLATION OF AUXILIARY SYSTEM SYDICED/ATA SYSTEM, CLOSED CARCUIT TELEVISION SYSTEM AND FIVE DETECTION ALARM SYSTEMS
  - 16.1. ALC ADRESSTY WINNESS INLEST TIETER TO WIFE SCHEDILLE AS INDICATED ON PLANS.
  - 16.2. MINIMUM SIZE AND TYPE OF CONDUIT SHALL BE AS FOLLOWS:
- VENCE DATA BUSTON 20MM IA PVC DOW SYSTEM MAKE PVC C. PDASSPETEM SAME DIFFERO
  - W.E. ALL EMPEDDED CRECKETS SHALL BE FULL CONDUITS AND FOR EXPOSED HISPALL KNOW SHALL BE FUTURE. SUPPORTED BY CONDUIT CLAMPS GVERY 750 MILINETERS: AND/OF CONDUIT HANDER BUPPORTS EVERY YEAR MICHIETERS.
  - TEZ: ALL MOUNTAGHESORTS FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:
- TELEPHONE OUTLIET - 381 NW ADOVE FLOOR FRHISK CATY OUTLET 200 NW ADDVE FLOOR FRISH DATA OUTLET SHAM AROVE WURKING COUNTER. CARACTO SASS MAY RECOVER TO CORP. FEMALES
- 16.1. BOXES, MARE, BUTTEPEL ENCLOSUSE SHALL BE PASSICATED FROM STEEL WITH THICKNESS AS FOLLOWS. MIX. WOTH OF THE IMDEST OA

#### SUPPRICE STEEL

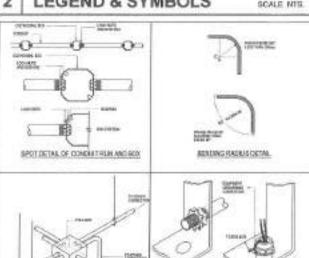
UP TO HICL KIDING 157-46-Mid GA SE PRINTED WITH METAL PRIMER CPONY AND TOPONT OVER HSEAR MANIBUT NOT OVER 407.10. GA 14 PAMISO WITH METAL PYBMER EPOXY AND TOPCON! DUEN 457 3H HAMBUT WIT OVER THE MILL GA IS PRIMISED WITH METAL. PRIMER EPOXY AND TOPOCAT DUETE MEDIUM CA 16 FMATED WITH METAL PRIMER EPOKY AND TOPOCKI

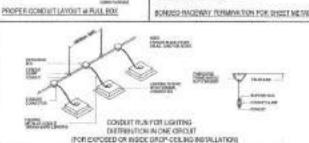
- 18.1, THE COUNTRICATION GROUND RESISTANCE SHALL NOT EXCEED 2 OHAIS
- 19.7. ALL WATERWASTO BE USED AND THE SOUPWENT TO BE WETALLED BHALL BE OF THE BEST DURLITY. BRAND NEW AS SPECIFIED. IT MUST BE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE.

	2×1991 LED (ID) CERSIO TYPE TECRVIRE LERIT
1000	TRY LIG RECEIRED TYPE PROJECT
-	ETTWICHT
- 18	ERMOST AND
10	CISUMS CAUSSTE SHUKE SPUT-TYPE
40	CHE - DAKE SENTICH
#250e	TWO - DUNC BACKO!
#25to	THREE - GANG GWYDON
- QF	THE DAVIS CUITAR (ARROWN PRESK PLEOR)
-01	TWO DAYS TUTLET GODGN MODE WATER
602	GROUND FAULT OROUGT WISDRUFFER OUTLIT IN TOMIN FROM COUNTERFOR
	KOOROVELET
PD-4	HOME BUILD CHICART
m S	PANEL BOARD
0	GROUT BREWER

### LEGEND & SYMBOLS

SCALE NIS.





MISCELLANEOUS DETAILS SCALE NTS

APPROVED BY

BOALE MTS.

INTERFECTIONS

Republika ng Pikpinas

15.7. THE GROUND RESISTANCE SHALL NOT BE MORE THAN 5 CHAIN GENERAL NOTES

> PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES DR. SCIENCE TECHNOLOGY HIGH SCHOOL .

PROJECT TITLE

DATE HEXDE Denside No.

HEMBER WIT

DOMEST HOS

ELEMETTED OF ENGR. LEØ S. DOL ROSARIO

RECOMMENDING APPROVAL

GETTER LYCTURES MERCELL AMERICAN PRIME BURNO AND SYMBOLS

EL-01

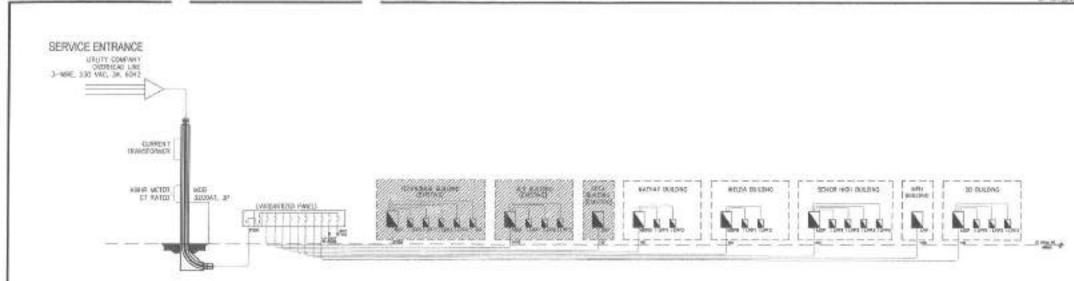
BHOST HIS:

Luraned ng Quezen CITY ENGINEERING DEPARTMENT

HON, MA, JOSEFINA G, BELMONTE CITY MAYOR

DROY, BACICNO DRADAO, DISTRICT 4 OLIFZON CITY

ENGR. (BARKAL R. VERZOSA, JR.



### RISER DIAGRAM

SCALE NTS.

PANEL: LVSG (UNITIZED PANEL) MAIN: 3200AT, 3200AF, 3P, 230V, MCCB

KT NO.	VOLTS OUT	TLET	OTHER LOAD SERVICE	- Al	APERE LO	AD	3Ø	VOLT	CIRCUIT	proprieta de la constanta de l	
A. PALA	VOLIS	10	CD	OTHER TOAD SERVICE	A8	CA	BC	340	AMPERE	BREAKER	SIZE OF WIRE
1	230			SB HALL BUILDING	14.35	10.87	20.87	0.00	8300.00	100AT, 3P, MCCB	3 - 30mm2 THHN + 1 - 8.0mm2 TW (G) in 32mmØ IMC
2	230			MPH BUILDING	56.70	56.70	58.96	88.00	74695.68	250AT, 3P, MCCB	3 - 125mm2 THHN + 1 - 30mm2 TW (G) in 65mmØ IMC
3	230			SENIOR BUILDING	64.70	62.26	64.35	0.00	44000.00	150AT, 3P, MCCB	3 - 50mm² THHN + 1 - 14mm² TW (G) in 50mmØ IMC
4.	230			IMELDA BUILDING	77.57	80.61	66.61	0.00	51700.00	17SAT, 3P, MCCB	3 - 60mm <sup>2</sup> THHN + 1 - 22mm <sup>2</sup> TW (G) in 50mmØ (MC
5	230			MATHAY BUILDING	84,48	82.17	73.87	0.00	52420.00	200AT, 3P, MCCB	3 - 80mm² THHN + 1 - 22mm² TW (G) in 50mmØ IMC
6	230			ALS BUILDING	208.91	188.13	197.09	0.00	136650.00	500AT, 3P, MCCB	2 Sets of 3 - 100mm <sup>2</sup> THHN + 1 - 30mm <sup>2</sup> TW (G) in 65mmØ IMC
7	230			SOTA BUILDING	54.39	60.52	59.17	0.00	40040.00	150AT, 3P, MCCB	3 - 50mm² THHN + 1 - 14mm² TW (G) in S0mmØ IMC
8	230			TECHNOHUB BUILDING	820.00	820.00	820.00	0.00	565800.00	2000AT, 3P, MCCB	5 Sets of 3 - 250mm² THHM + 1 - 50mm² TW (G) to 90mm@ IMC
			TOTA	AL	1381.09	1361.26	1350.91	88.00	973605.68		

 $I = (1381.09 \times 1.732) + (22.00 \times 0.25) =$ 

2485.54 Amperes

Main Fooder Line:

Use: 8 Sets of 3 - 250mm2 THHN + 2 - 50mm2 TW (G) in 90mm@ RSC/110mm@ PVC/8Y250

come

### SCHEDULE OF LOADS

SCALE NTS. CHICCHIO.



Republika ng Pdipinas Lungrod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TIME PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL

DATE: 08:27:28 ORDSON DE PERSONAL NO SHOY, BASONS OBJESTO, DISTRICT A GUESON OTY

DOWNER OF



ENGR. BAGON R. VERZOSA, JR.

RECOMMENDING APPROVA

HOW, MA. JOSEPINA G. BELMONTE CITY MARCH

APPROVED BY

EL-02 WIDER DIATRAM SOMEDILE OF LOADS

IDEET CONTENT

O'N TO	VOLTS	OU	ILET .	OTHER LOAD SERVICE	A	MPERE LO	AD	- 20	VOLT	CIRCUIT	CHE OF LANK
AT NO.	VOLIS	10	CO	OTHER COAD SERVICE	AB	CA	BC BC	30	AMPERE	BREAKER	SIZE OF WIRE
1	230	yupen		LPP 1	285.00	285.00	285.00		196650.00	630AT, 3P, MCC8	2 sets of 3 - 200mm2 THHN + 1 - 50mm2 TW (G) in 80mmØ INIC
2	7.30			LPP 2	225.00	225.00	225.00		155250.00	SOOAT, 3P, MCCB	2 sets of 3 - 125mm2 THHN + 1 - 30mm2 TW (G) in 65mmØ IMC
3	230			LPP 3	143.00	143.00	143.00		98670.00	315AT, 3P, MCCB	3 - 200mm3 THHN + 1 - 50mm3 TW  G) in 80mm@ IMC
4	230			LPP 4	112.00	112.00	112.00		77280.00	250AT, 3P, MCCB	3 - 125mm3 THHN + 1 - 30mm3 TW (3) in 65mm9 IMC
5	230			ELEVATOR	55.00	55.00	55.00		37950.00	125AT, 3P, MCCB	3 - 38mm² THHN + 1 - 14mm² TW (G) in 40mmβ IMC
									Dillecont Const.		
			TOTAL	Li.	820.00	820.00	820.00	0.00	565800.00		

1 = [820x 1.732] + (17 x 0.25) =

1424.49 Amperes

Feeder Line:

Use: 5 Sets of 3 - 250mm3 THHN + 1 - 50mm3 TW (G) in 90mmgl (MC/110mmgl PVC/SY2S0

### SCHEDULE OF LOADS

SCALE NTS.

PANEL: ALS BUILDING: DISTRIBUTION PANEL (DP) (EXISTING)

MAIN- SOOAT SOOAT BR 730W MCCR

KT NO.	VOLTS	OUTLET	OUT	DUTLET	OTHER LOAD SERVICE	- At	MPERE LO	AD	365	VOLT	CIRCUIT	DDE OF OWNE
AL OIL	10113	LD	CO	OTHER CORD SERVICE	AB	CA	BC	340	AMPERE	BREAKER	SIZE OF WIRE	
1	230			LPP1	87.96	78.87	82.39		57320.00	200AT, 3P, MCCB	3 - 80mm² THHN + 1 - 22mm² TW (G) in S0mmØ HMC	
2	230	9 9		LPP2	99.22	91.87	95.91		66010.00	225AT, 3P, MCCB	3 - 100mm2 THHN + 1 - 30mm2 TW (G) in 65mm2 IMC	
1	230			LPP3	21.74	17,39	18,78		13320.00	100AT, HP, MCCB	3 - 14mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ (MC	
	TOTAL			208.91	188.13	197.09	0.00	136650.00				

I = (80.61x 1.732) + (17 x 0.25) =

366.09 Amperes

Feeder Line:

Use: 2 Sets of 3 - 300mm3 THHN + 1 - 30mm3 TW (G) in 65mmØ IMC/80mmØ PVC/2Y100

### SCHEDULE OF LOADS

SCALE NTB. SHEEF NO.



Republika ng Pilipinas Lungood ng Quezon CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL

BRIDE BARDONS OFFICED, DISTRICT & GUESNICHY

CHANNEY AF OHOGO BY

DALE: MISSESS

REMINER NO.

ENOR. LEO B. DEL ROBARDO

ENOR SAGAN IL VERZOSA, JR.

RECOMMENDED APPROVING

APPROXICE \$1

INCOVOD 12998

90 KOULE OF LOVER

HON, MA, JOSEFINA G. BELMONTE

EL-03

KT NO.	VOLTS	OUT	LET	OTHER LOAD SERVICE	AMPERE LOAD			30	VOLT	CIRCUIT	CURE OF WHIRE
AL NO.	VULIS	LO	co		AB	CA	BC	360	AMPERE	BREAKER	SIZE OF WIRE
- 1	230	25	1000		10.87				2500	20AT, 2P, Bolt-On	2 - 3.5mm2 THHIN + 1 - 3.5mm2 TW (G) in 20mm@ PVC
2	230	25			10.87				2500	20AT, 2P, 8olt-On	2 - 3.5mm² THHN + 1 - 3.5mm² TW (5) in 20mmØ PVC
3	230	25				18.87			2500	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 3.5mm2 TW (G) in 20mmØ PVC
4	230	25					10.87		2500	20AT, ZP, Bolt-On	2 - 3.5mm2 THHN + 1 - 3.5mm2 TW (G) in 20mm@ PVC
5	230		20				15.65		3600	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 3.5mm² TW (G) in 20mmØ PVC
- 6	230		20				15.65		3600	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 3.5mm2 TW (G) in 20mmØ PVC
7	230		20		15.65				3600	20AT, 2P, Bolt-On	2 - 3.5mm* THHN + 1 - 3.5mm* TW (G) in 20mmØ PVC
8	230		20			15.65			3600	20AT, 2P, Bolt-On	2 - 3.5mm3 THHN + 1 - 3.5mm3 TW (G) in 20mm(0 PVC
9	230			ACCU - 2HP	17.00				3910	30AT, 2P, Bolt-On	2 - 5:Smm2 THHN + 1 - 3:5mm3 TW (G) in 20mmØ PVC
1.0	230			ACCU - 2HP		17.00			3910	30AT, 2P, Bolt-On	2 - 5.5mm <sup>2</sup> THHW + 1 - 3.5mm <sup>2</sup> TW (G) in 20mm@ PVC
11	230			ACCU - 2HP			17.00		3910	30AT, 2P, Bolt-On	2 - 5.5mm3 THHN + 1 - 3.5mm3 TW (G) in 20mm@ PVC
12	230			ACCU - 2HP		17.00			3910	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW (G) in 20mmØ PVC
-	_		TOTA	ī.	54.39	60.52	59.17	0.00	40090.00		

i = {44.43 x 1.732} + (12 x 0.25) =

107.82 Amperes

Feeder Line:

Use: 3 - 50mm2 THHN + 1 - 14mm2 TW (G) in 50mmØ IMC/65mmØ PVC/Y50

### 1 SCHEDULE OF LOADS

SCALE NTS.

PANEL: MATHAY BUILDING: DISTRIBUTION PANEL (DP)

CKT NO. V	VOLTS	CUTLET		OTHER LOAD SERVICE	AMPERE LOAD			305	VOLT	CIRCUIT	SHE OF MIST
	ACCETO	LO	CO	OTTEN EUTO SERVICE	AB	CA	BC	990	AMPERE	BREAKER	SIZE OF WIRE
1	230			LPP1	49.96	50.26	42.80		29880,00	125AT, 3P, MCCB	3 - 38mm <sup>8</sup> THHN + 1 - 14mm <sup>2</sup> TW (G) in 40mm <sup>8</sup> IMC
2	230			LPP2	34.52	31.91	31.57		22540,00	75AT, 3P, MCCB	3 - 22mm2 Tr94N + 1 - 8.0mm2 TW (0) in 32mm8 IMC
			TOTA	VL.	84.48	82.17	73.87	0.00	52420.00		

| = (80.61x 1.732) + (17 x 0.25) =

150.57 Amperes

**Fander Una** 

Use: 3 - 80mm2 THHN + 1 - 22mm2 TW (G) in 50mm@ IMC/65mm@ PVC/Y80

### 2 SCHEDULE OF LOADS

SCALE NTS.



Republikang Pilipinas Latipioding Quann CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL.

BRIGH BASIONS OBNICED, DISTRICT 4 OLICIONOTY



ENGR. LEGS S. DELL ROSARION



MON, RA. JOSEFINA G. BELMONTE

SOFTY MIKEOPIN

APPROVED BY:

00HEDVALE OF LOADS

BHOST GOWNSYT

EL-04 10 24 PANEL: IMELDA BUILDING: DISTRIBUTION PANEL (DP)

MAIN: 175AT, 200AF, 3P. 230V, MCCR

KT NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD			30	VOLT	CIRCUIT	SIZE OF WIRE
CAL MO.		10	CO	OTHER EURO SERVICE	AB	CA	BC	966	AMPERE	BREAKER	and or write
1	230		7.000	LPP1	38.78	40.30	33.30		25850.00	100AT, 3P, MCCB	3 - 30mm2 THHN + 1 - 14mm2 TW (G) in 32mmØ IMC
2	230			Fbb5	38.78	40.30	33.30		25850.00	100AT, 3P, MCCB	3 - 30mm² THHN + 1 - 14mm² TW (G) in 32mmØ IMC
			101/	4	77.57	80.61	66.61	0.00	51700.00		

| = (80.61x 1.732) + (17 x 0.25) =

143.86 Amperes

Feeder Line:

Use: 3 - 60mm2 THHN + 1 - 22mm2 TW (G) in 50mmØ IMC/65mm@ PVC/Y50

### SCHEDULE OF LOADS

SCALE NTS

PANEL: SENIOR HIGH BUILDING: DISTRIBUTION PANEL (DP)

KT NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	- At	MPERE LO	MD	30	VOLT	CIRCUIT	SIZE OF WIRE	
CLIMP.	1960.0	LO	CO	OTHER COND SERVICE	AB	CA	BC	36	AMPERE	BREAKER	SIZE OF WINE	
1	230	77.17.00		LPP1	16.17	15.57	16.09		11000.00	40AT, 3P, MCCB	3 - 8.0mm² THHN + 1 -5.5mm² TW (G) in 25mmØ IMC	
2	230			LPP2	16.17	15.57	16.09		11000.00	40AT, 3P, MCCB	3 - 8.0mm3 THHN + 1 -5.5mm2 TW (G) in 25mm/6 IMC	
3	230			LPP3	16.17	15.57	16.09		11000.00	40AT, 3P, MCCB	3 - 8.0mm² THHN = 1 -5.5mm² TW (6) in 25mmØ IMC	
4	230			LPP4	16.17	15.57	16.09		11000.00	40AT, 3P, MCCB	3 - 8.0mm2 THHN + 1 -5.5mm2 TW (G) in 25mmØ IMC	
			TOT/	VI.	64.70	62.26	64.35	0.00	44000.00			

I = (64.70 x 1.732) =

112.05 Ampères

Feeder Une:

Use: 3 - 50mm2 THHN + 1 - 14mm2 TW (G) in 50mm@ IMC/65mm@ PVC/Y50

### SCHEDULE OF LOADS

BOALE: NTS. SHEET NO.



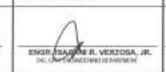
Republika ng Pilipinas Lungsed ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE: PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL /

BRIST BASIONO DIRRERO, DISTRICT 4 QUEZDACITY.

DAYS - 199,07.00 CHECKED BY REVISION NO.

DELINETY OF





RECOMMENDING APPROVAL

SCHEDULE OF LOADS HON, MA. JOSEPINA G. BELMONTE GIVANOI

SHEET CONTEMT

ATTEMEDIEY:



CT NO.	VOLTS	OU	TLET	OTHER LOAD SERVICE	H	WHERE FO	MD CAN	305	VOLT	CIRCUIT	1012 1017111	
n i more	354.13	LO	60	OTHER EURO SERVICE	AB	CA	BC	360	AMPERE	BREAKER	SIZE OF WHIE	
1	230	20			8.70				2000	20AT, 2P, Bolt-On	2 - 3.5mm* THHN + 1 - 3.5mm* TW (G) in 20mm@ PVC	
2	230	20				8.70			2,000	20AT, 2P, Bolt-On	2 - 3.5mm <sup>2</sup> THHN + 1 - 3.5mm <sup>2</sup> TW (G) in 20mm@ PVC	
3	230		14	- AND THE PROPERTY OF THE PARTY			10.96		2520	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 3.5mm2 TW (G) in 20mm@ PVC	
4	230		100	ACCU - 2HP	12.00	77.55			2760	30AT, 2P, Bolt-On	2 - 5.5mm2 THHN + 1 - 3.5mm2 TW (G) in 20mm@ PVC	
5	230			ACCU - 2HP	172.37	12.00			2760	30AT, 2P, Bolt-On	2 - 5.5mm* THHN + 1 - 3.5mm* TW (G) in 20mm@ PVC	
6	230			ACCU - 2HP			12.00		2760	30AT, 2P, Bolt-On	2 - 5.5mm <sup>2</sup> THHN + 1 / 3.5mm <sup>2</sup> TW (G) in 20mmØ PVC	
7	230			ACCU - 2HP	12.00				2760	BOAT, 2P, Bolt-On	2 - 5.5mm <sup>2</sup> THHN + 1 - 3.5mm <sup>2</sup> TW (G) in 20mmg0 PVC	
В	290			ACCU - 2HP		12.00			2760	30AT, 2P, Bob-On	2 - 5.5mm2 TIHIN + 1 - 3.5mm2 TW (G) in 20mm@ PVC	
9	230			ACCU - 2HP	in a College		12.00		2760	30AT, 2P, Selt-On	2 - 5.5mm2 THHN + 1 + 3.5mm2 TW (G) in 20mm@ PVC	
10	330			ACCU - 2HP	12:00	12-07			2760	30AT, 2P, Belt-On	2 - 5.5mm* THHV + 1 - 3.5mm* TW (0) in 20mm@ PVC	
11	230			ACCU - 2HP	15,110.00	12.00			7760	30AT, 2P, Bolt-On	2 - 5.5mm2 THHN + 1 - 3.5mm2 TW (6) in 20mm@ PVC	
12	230			ACCU - 2HP			12.00		2760	30AF, 2P, 8oft-On	2 - 5.5mm* THHN + 1 - 3.5mm* TW (6) in 20mm/5 PVC	
13	530			ACCU - 2HP	12.00				2760	30AT, 2P, Bolt-On	2 - 5.5mm2 THNN = 1 - 3.5mm2 TW (6) in 20mm8 PVC	
14	230			ACCU - 2HP		12.00	and the same		2760	30AT, 2F, Bolt-On	2 - 5.5mm2 THHN + 1 - 3.5mm2 TW (6) in 20mm@ PVE	
15	230			ACCU - 2HP			12.00		2760	30AT, 2P, Bolt On	2 - 5.5mm <sup>2</sup> THHN + 1 - 3.5mm <sup>2</sup> TW (G) in 20mm <sup>2</sup> PVC	
16	230			ACCU - 7.5HP				22.00	8764	40AT, 3P, Bolt-On	3 - ILOmm <sup>2</sup> THHN + 1 - 5.5mm <sup>2</sup> TW (G) in 32mmØ PVC	

22.00

22.00

22.00

3764

8764

8764

74656

40AT, 3P, Bolt-On

40AT, 3P, Bolt-On

40AT, 3P, Bolt-On

I = [56.70 x 1.732] + 88.00 + (5.00 x 0.25) =

TOTAL

391.7 Amperes

56.70 56.70 58.95 88.00

Feeder Line:

230

230

230

230

PANEL: MPH BUILDING: LPP

Use: 3 - 525mm\* THHN + 1 - 30mm\* TW (6) in 65mm@ IMC/80mm@ PVC/Y325

ACCU - 7.5HP

ACCU - 7.5HIP

ACCU - 7.5HP

SPACE

### SCHEDULE OF LOADS

17

18

19

20

SCALE NTS.

PANEL: SB HALL BUILDING: DISTRIBUTION PANEL (DP)

ICT NO.	WOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD			369	VOLT	CIRCUIT	DOMESTIC OF THE PARTY OF THE PA
ear lace	AUT 13	LO	00	OTHER DESIGNATION.	AB	CA.	BC	261	AMPERE	BREAKER	SIZE OF WIRE
1	230			LPP1	14.35	10.87	30.67		8300.00	3DAT, 3P, MCCB	3 - 5.5mm* THHW + 1 -3.5mm* TW (G) in 15mm@ IMC
2	230			LPP2	14.35	10.87	10.87		8300.00	30AT, 3P, MCCB	3 - 5.5mm2 THHN + 1 -3.5mm2 TW (G) in 35mmØ IMC
3	230			LPF3	14.35	1,0.87	10.87		8300,00	30AT, 3P, MCCB	3 - 5.5mm2 THHN + 1 -3.5mm2 TW (G) to 15mmØ IMC
A	230			SPACE							
TOTAL					43.04	32.61	32.61	0.00	24900.00		

1 = [43.04 x 1.732] =

74.551 Amperes

Feeder Line:

Use: 3 - 30mm2 THHN + 1 - 8.0mm2 TW (G) in 32mmØ IMC/40mm@ PVC/V30

### SCHEDULE OF LOADS

SCALE NTS. SHEET NO.



Republika ng Pilipinas Langued my Quecom CITY ENGINEERING DEPARTMENT PRODUCT TITLE

PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL >

BROT, BRIDGED DERRORD, DRIFFICT & GUILLIONCTY



HICKIGACINE REL

ENOR. LED S. DEL ROSARIO



RECOGNISADING APPROXIS

SCHOOLE UP LOADS

**BREET LICATION** 

EL-06

HOW, MA, JOSEFINA G, DELMONTE CITY RHOUSE

APPROPRIES

3 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 32mm@ PVC

3 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 32mm@ PVC

3 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 32mm8 PVC

PANEL: EE ROOM: LP

MAIN: 20AT, 100AF, 3P, 230V, MCCB

140.04	mental and	same base to	Tana Listory			-				The second secon	
COST NO.	VOLTS OUTLET		TLET	OTHER LOAD SERVICE	AMPERE LOAD			300	VOLT	CIRCUIT	SIZE DE WIRE
CKT NO.	VULIS	10	co	OTHER COMP SERVICE	AB	CA	BC	1000	AMPERE	BREAKER	
- 1	230	4					1.74		400.00	ZOAT, ZP, MCCB	3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ IMC
			TOTA	AL.	0.00	0.00	1.74	0.00	400.00		

1 = 400 / 230 =

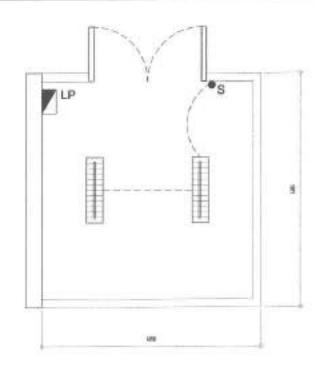
1.74 Amperes

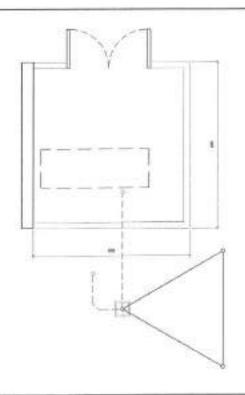
Feeder Line:

Use: 1 - 3.5mm\* THHN + 1 - 2.0mm\* TW (G) in 20mm@ IMC/X20

### 1 SCHEDULE OF LOADS

SCALE NTS.





AFFROVED BY

### 2 ELECTRICAL ROOM LIGHTING LAYOUT

SCALE NTS.

ELECTRICAL ROOM GROUNDING LAYOUT

SCALE NTS.

WEST CONTINUE

Republika og Plipiner Lungsod og Queren CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL BYSTEM AT DOM ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL.

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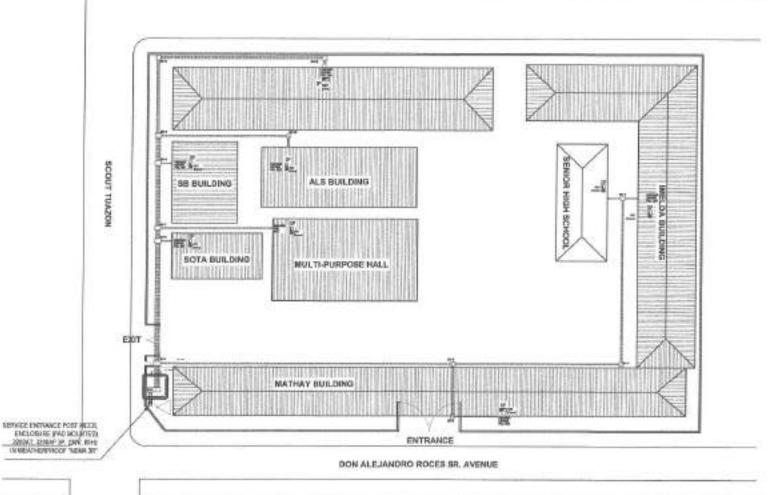
ENGR. LEO S. DEL ROBARDO

ENGR. ISBOOK R. VERZOSA, JR.

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DON ALEJANDRO ROCES SR. AVENUE

### LAND DEVELOPMENT FEEDER LAYOUT

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Republika ng Pilipinas Lungard ng Queson CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL LODATION

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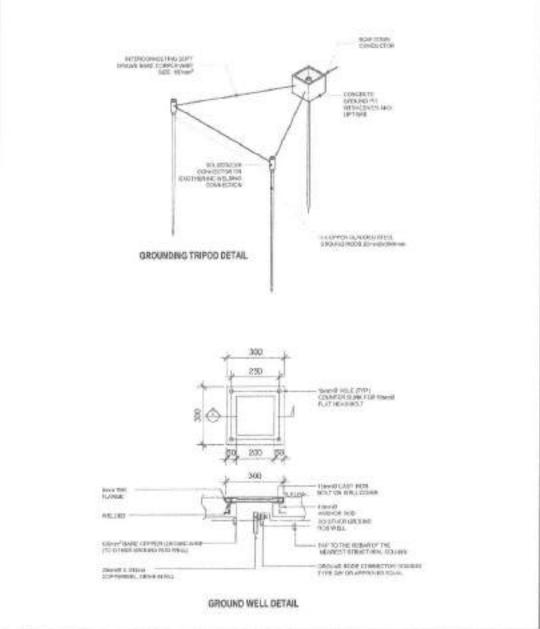
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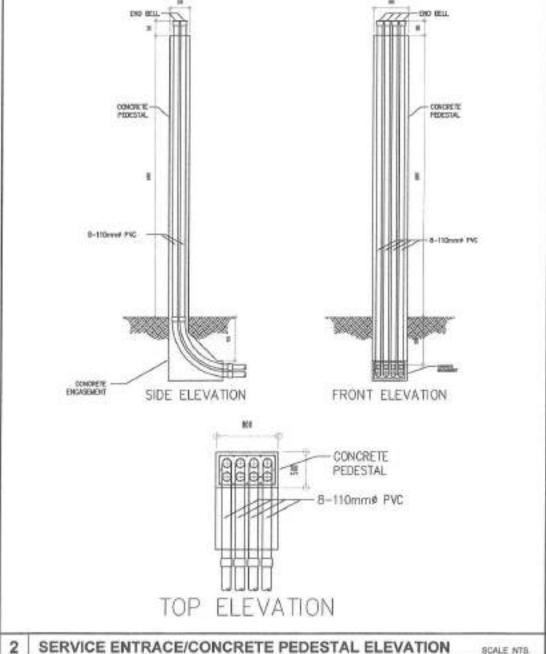
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SHEET CONTENT





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SCALE NTS.

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Republika og Pilipinas Lingsod og Quezon CITY ENGINEERING DÉPARTMENT PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SK. SCIENCE TECHNOLOGY NIGH SCHOOL

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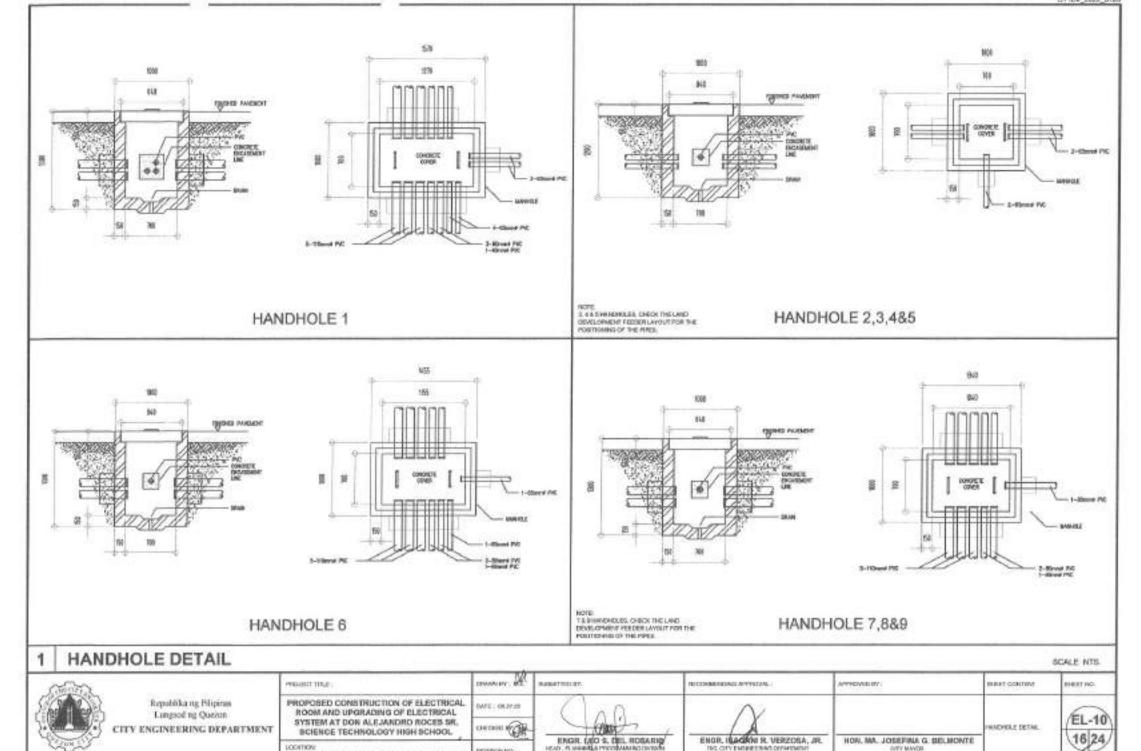
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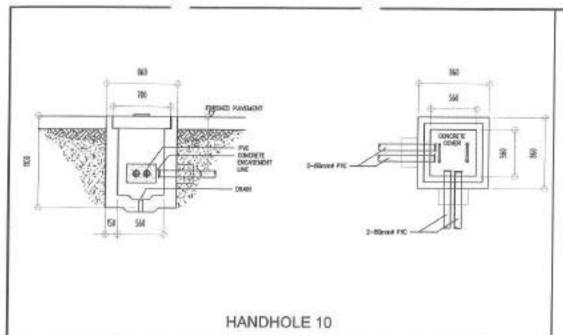
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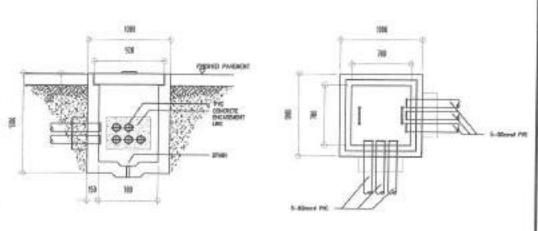
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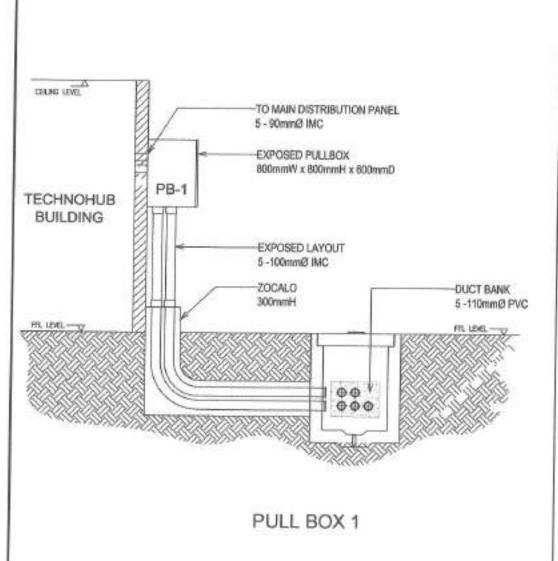


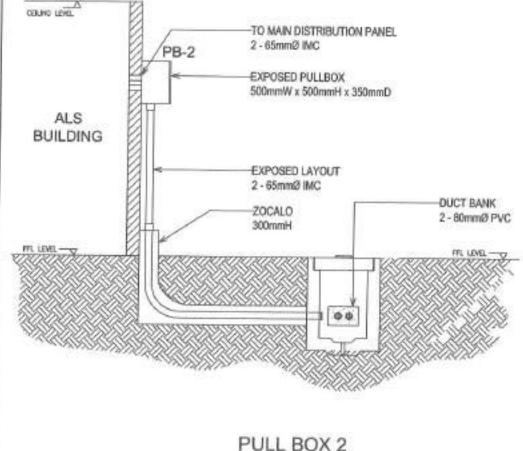
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### HANDHOLE 12







### 1 EXPOSED PULLBOX DETAIL

SCALE NES.



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PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL /

IPHY MACRIS OSPERO, DISTRICT 4, QUEXCILLY

DATE 18/2/20

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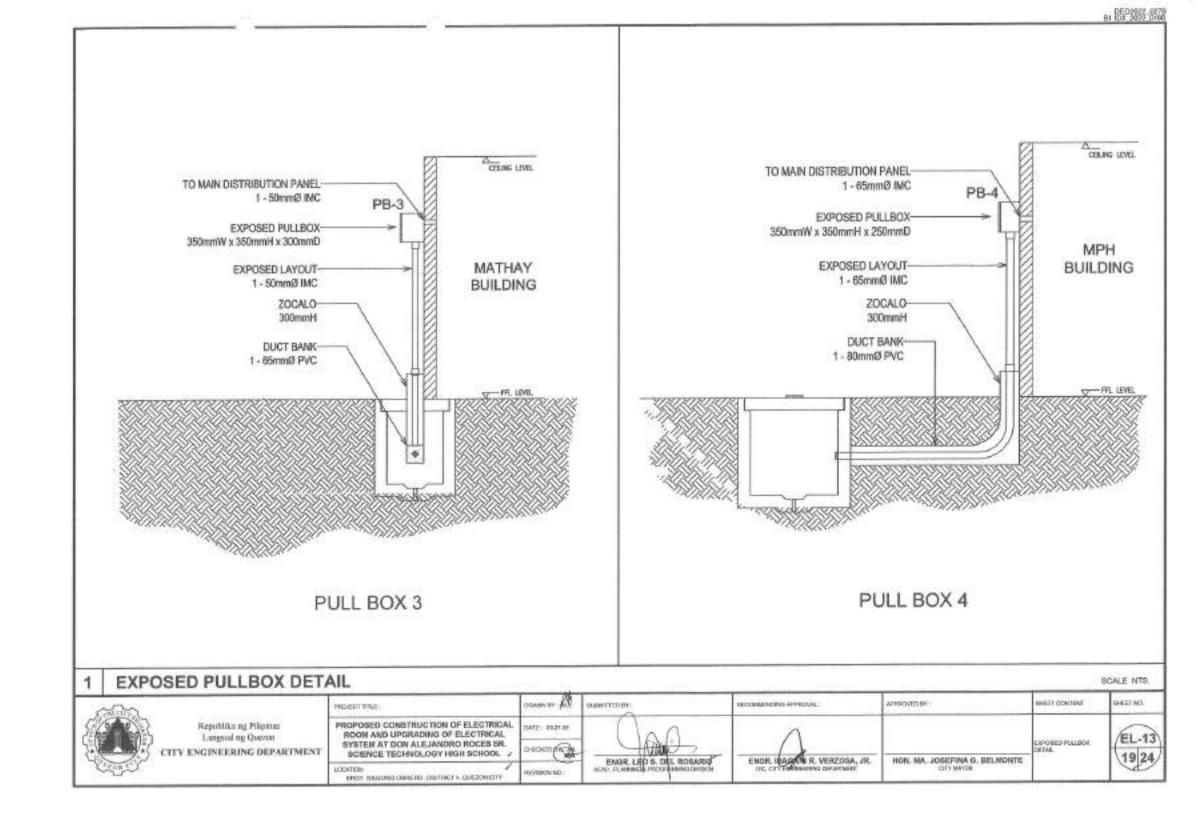


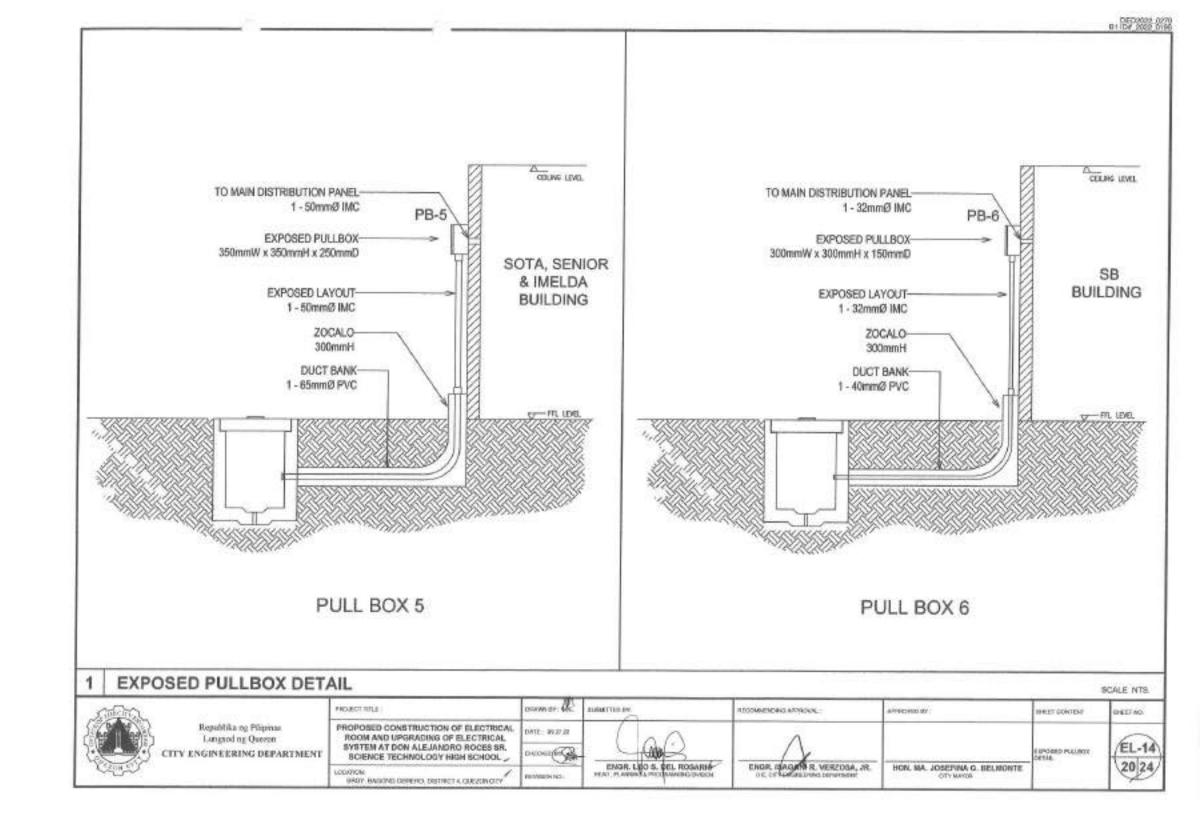
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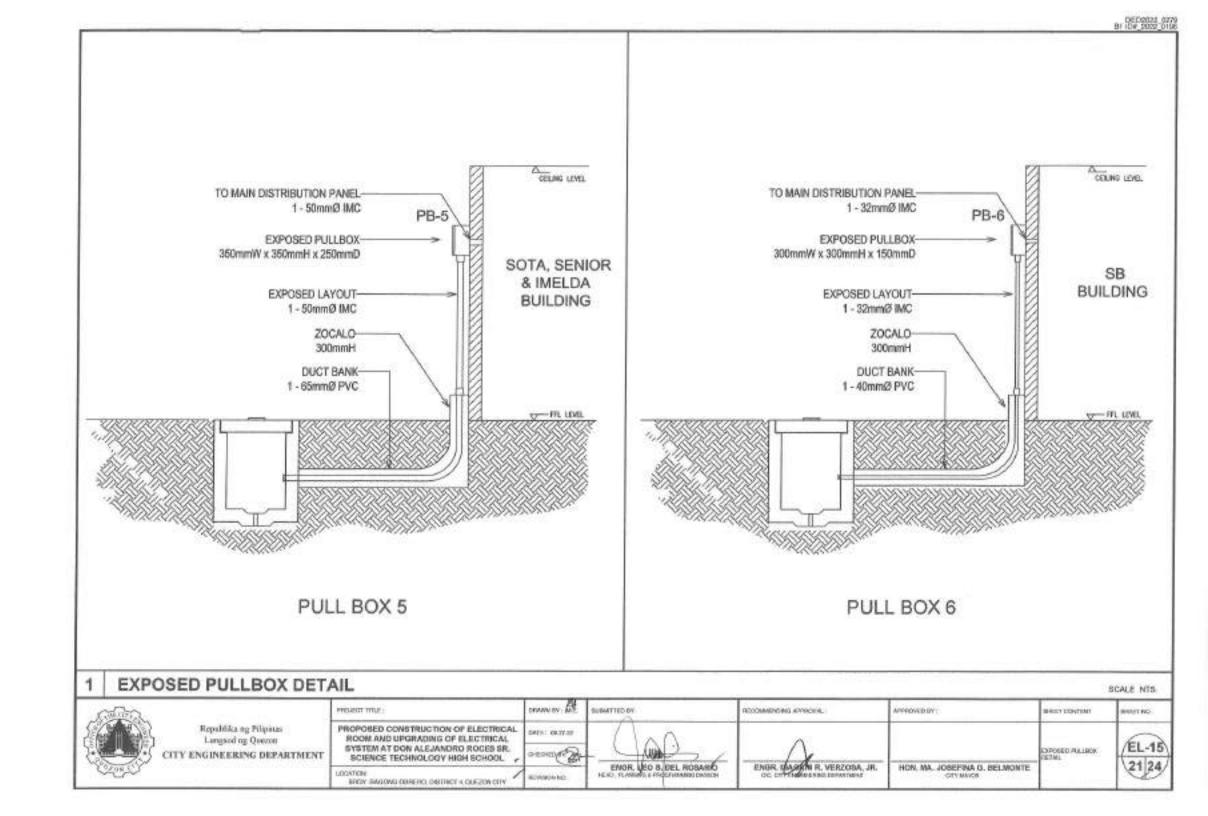
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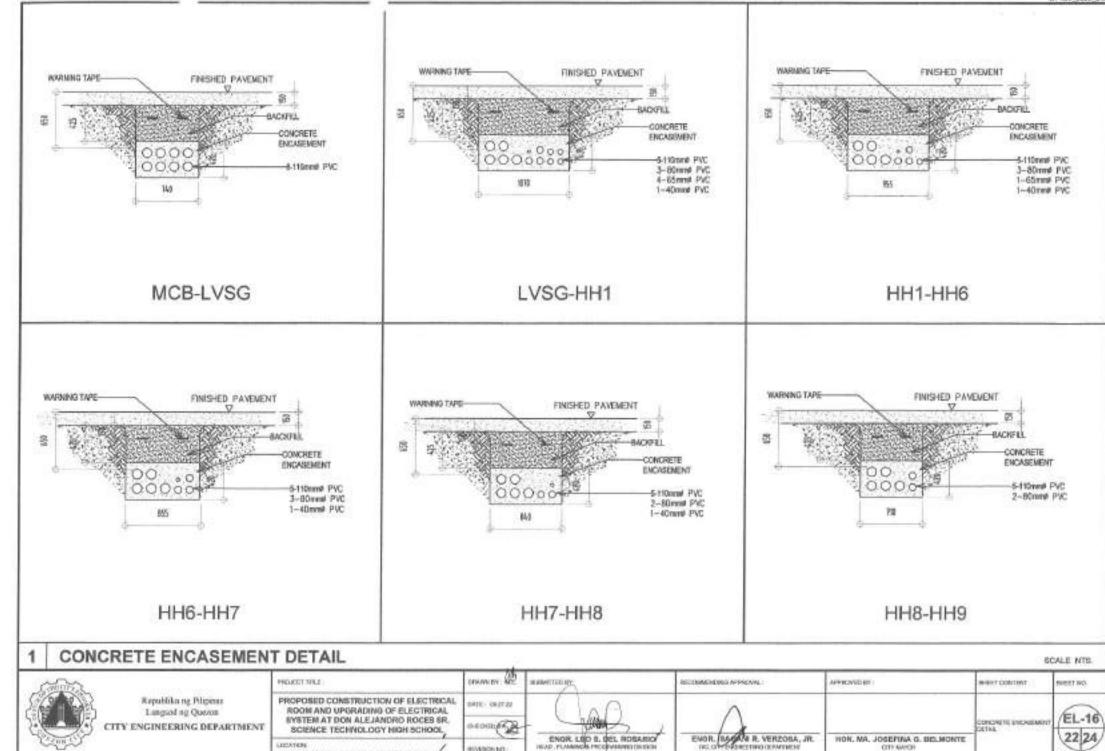
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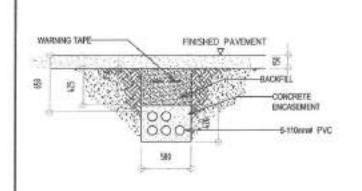


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REVENUE NO.

ENCY, SASONO CONTINO, DETRICT 4 CLE CONTRY



WARRING TAPE
FINISHED PAVEMENT

BACKFILL

CONCRETE
ENCASEMENT

30

2-80mm/ PVC

WARNING TAPE

FINISHED PAVEMENT

BACKFIEL

CONCRETE
ENCASEMENT

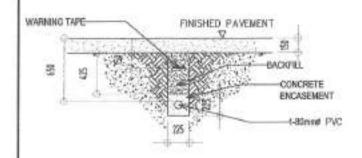
140mm PVC

HH9-HH11, HH11-HH12 & HH12-PB1

HH9-HH10 & HH10-PB2

HH8-PB6

FINISHED PAVEMENT



WARNING TAPE

FINI SHED PAVEMENT

BACKFILL

CONCRETE
ENCASEMENT

168mm# PVC

HH5-PB5, HH2-HH3, HH3-PB3 & HH5-PB5 (2)

HH1-HH2

WARONGO BL.

HH7-PB4

### 1 CONCRETE ENCASEMENT DETAIL

SCALE NTS

CONCRETE

**ENCASEMENT** 

-3-65mmø PVC



Republika ng Pilipina Langsod ng Queson CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY HIGH SCHOOL. /

BNOY BADDWG OBRERO DISTRICT & QUESCINISTY

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ENDR. GEO B. DEL ROBARDO MAIA, PLANSROL PROPERTORIS

ENGR. SANGTON R. VERZOSA, JR.

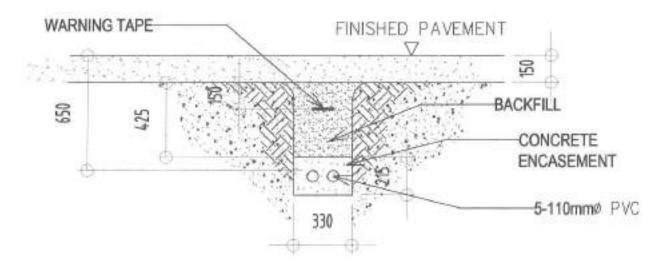
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HON, MA, JOSEFINA G. BELMONTE

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### HH2-HH4 & HH4-HH5

# 1 CONCRETE ENCASEMENT DETAIL

SCALE NTS.



Republika ng Pilipinas Langsod ng Quazon CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES BR. SCIENCE TECHNOLOGY HIGH SCHOOL

BROY, BAGONO OBPERO, DETYRCT 4, DUEZONICTY #

CHECKED BY (SA)

ENGIN, LEG S, CEL ROSARIO

FEATBORNO 1940, FLANNING & TROUBHRAND DOUGHS

EMOR ISAGAN R. VERZOSA, JR.

AFTEOVED BY

RECORMERDING APPROVAL

COADETE ENCADESE
HOW, MA., JOSEFRIA G. BELMONTE

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## Section VIII. Bill of Quantities

### **Notes on the Bill of Quantities**

### **Objectives**

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

### **Daywork Schedule**

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

#### **Provisional Sums**

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

### **Signature Box**

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

PROJECT TITLE: PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF

ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE

**TECHNOLOGY HIGH SCHOOL** 

LOCATION : BARANGAY OBRERO, DISTRICT 4, QUEZON CITY

PROJECT NO. : 22 - 00171

DURATION : One Hundred Eighty (180) Calendar Days

### **BREAKDOWN OF COST**

ITEM CODE	WORK DESCRIPTION	MATERIAL COST	LABOR COST	INDIRECT COST	AGGREGATE COST
GR	GENERAL REQUIREMENTS				
OGR	OTHER GENERAL REQUIREMENTS (NON - O.C.M.)				
I	CONSTRUCTION OF ELECTRICAL ROOM				
II	MAIN SERVICE ENTRANCE/POWER DISTRIBUTION				
UTI	UTILITY AND ANCILLARY WORKS				

	TOTAL COST	<u> P</u>
LUMP SUM BID IN WORDS :	 	
_		
_		
Contractor :		

Page 3 of 3 Bid Form

#### **BILL OF QUANTITIES**

#### (Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED CONSTRUCTION OF ELECTRICAL ROOM AND UPGRADING OF

ELECTRICAL SYSTEM AT DON ALEJANDRO ROCES SR. SCIENCE TECHNOLOGY

**HIGH SCHOOL** 

LOCATION : BARANGAY OBRERO, DISTRICT 4, QUEZON CITY

PROJECT NO. : 22 - 00171

**DURATION**: One Hundred Eighty (180) Calendar Days

#### **SCOPE OF WORKS:**

GR	General Requirements include billboard(s).
OGR	Other General Requirements (non-O.C.M.) include, but not limited to:
1	Temporary enclosure around the construction area.
2	Temporary water system including water meter/sub-meter and connections.
3	Temporary electrical system including electric meter/sub-meter and connections.
4	Scaffolding for general use (rental).
5	Clearing, hauling and disposal of construction materials and debris.
I	CONSTRUCTION OF ELECTRICAL ROOM
I-SW	Site Works:
1	Demolition/removal works.
2	Layout and staking.
3	Site clearing and preparation.
4	Clearing and cleaning for painting preparation.
5	Earthworks include excavation for structures, backfilling and compaction.
I-CWS	Civil / Structural Works:
1	Earthworks include gravel bedding.
2	Concrete works include concreting, installation of reinforcing steel bars, and formworks.
3	Masonry works include laying of CHB and plastering works.
4	Metal works include fabrication of metal structures.
5	Roofing works include installation of roofing, bended materials and thermal insulation.
I-AW	Architectural Works (Finishes as indicated in the plans):
1	Painting works include painting for exterior, interior walls, metal surfaces and slab soffit.
2	Fabricated materials include installation of doors and windows.
I-EW	Electrical Works:
1	Installation of roughing-ins and wirings.
2	Installation of system devices, energy efficient lighting fixtures, components and panelboards.
II	MAIN SERVICE ENTRANCE/POWER DISTRIBUTION
II-SW	Site Works:
1	Demolition/removal works.
II-CWS	Civil / Structural Works:
1	Masonry works include restoration of concrete.
II-AW	Architectural Works (Finishes as indicated in the plans):
1	Painting works include painting for interior walls.
II-EW	Electrical Works:
1	Installation of roughing-ins and wirings.

2 Installation of panelboards, switchgears and accessories.

#### UTI Utility and Ancillary Works:

- 1 Construction of electrical utilities include service entrance, electrical hand holes and man holes, and concrete encasement.
- O Others
- 1 Provision of construction, health and safety such as safety gears, medical kit, etc.
- 2 Preparation of shop drawings, as necessary.
- 3 Preparation of as-built plans (signed and sealed by the respective professional(s)).
- 4 Testing and commissioning works shall be performed as per standard procedures.

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
GR	GENERAL REQUIREMENTS				
SPL7	Billboard (1.20m x 2.40m in Plywood)	1	piece	₽	₽
			MA	I TERIAL COST GR	P
				LABOR COST GR	
			ı	DIRECT COST GR	P
OGR	OTHER GENERAL REQUIREMENTS (NON - O.C.M.)				
OGR02c	Temporary Enclosure Around the Construction Area (h=2.4m)	16	l.m.	₽	₽
OGR0301	Temporary Water Facility	1	unit		
OGR0302	Temporary Electrical Facility	1	unit		
OGR05	Scaffolding (Rental)	24	sq.m.		
		S	ubtotal O	GR02-05 (Material)	₽
OGR01	Clearing, Hauling and Disposal of Construction Materials and Debris	68	t.l.	₱	₽
			Subtotal OGR01 (Labor)		₽
			DI	RECT COST OGR	₽
I	CONSTRUCTION OF ELECTRICAL ROOM				
I-SW	SITE WORKS				
DEMV025b	Removal of Existing Roof Sheet Inlcuding Framing Sytem (Truss)	10	sq.m.	P	₱
DEMV003b	Demolition of Existing Plant Box (With Soil)	14	cu.m.		
DEMV004	Demolition of Existing Structure				
DEMV004	Column	2	cu.m.		
DEMV004	CHB Wall	4	cu.m.		
DEMV004	Concrete Slab	10	cu.m.		
SW01	Layout and staking	18	sq.m.		
SW02	Site Clearing and Preparation	18	sq.m.		
SW03	Clearing and Cleaning for Painting Preparation	51	sq.m.		
CWSE	Earthworks				
106	Excavation	11	cu.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
SW04	Backfill	6	cu.m.		
		DIF	RECT CC	ST I-SW (LABOR)	₱
I-CSW	CIVIL / STRUCTURAL WORKS				
CWSE	Earthworks				
CWSE01	Gravel Bedding	2	cu.m.	₽	₽
CWSC	Concrete Works				
CWSCO	On-Site Mix Concrete, (21MPA, 3/4" Gravel @ 28 days)				
CWSCO04	Slab-on Grade	4	cu.m.		
CWSCO	On-Site Mix Concrete, (28MPA, 3/4" Gravel @ 28 days)				
CWSCO04	Column Footing	2	cu.m.		
CWSCR104	Column	2	cu.m.		
CWSCR104	Wall Footing	2	cu.m.		
CWSCR106	Roof Beam	3	cu.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSRB	Reinforcing Steel Bar including G.I. Tie Wire # 16				
CWSRB40	Grade 40 Reinforcing Steel Bar Including G.I. Tie Wire #	16			
CWSRB4001	10mm Ø (Beam)	113	kg		
CWSRB4001	10mm Ø (Column)	82	kg		
CWSRB4001	10mm Ø (Slab-on Grade)	134	kg		
CWSRB4001	12mm Ø (Beam)	56	kg		
CWSRB4001	12mm Ø (Wall Footing)	68	kg		
CWSRB 60	Grade 60 Reinforcing Steel Bar Including G.I. Tie Wire #	16	•		
CWSRB 6001	16mm Ø (Column Footing)	70	kg		
CWSRB 6001	16mm Ø (Column)	170	kg		
CWSRB 6001	16mm Ø (Beam)	179	kg		
CWSF	Formworks and Shoring				
CWSF01	Beam	23	sq.m.		
CWSF03	Column	19	sq.m.		
CWSMA	Masonry Works				
CWSMA04	150mm CHB Wall Laying, Including Mortar, Reinforcement and Two-Face Plastering	66	sq.m.		
CWSMA05	Plastering, 25mm Thick for Ordinary Walls	11	sq.m.		
CWSME	Metal Works				
CWSME07	Structural Steel				
CWSME0708	50mm x 100mm x 2mm C-Purlin	100	kg		
CWSME0714	50mm x 50mm x 6mm Tubular Bar	401	kg		
CWSME08	Metal / Steel Works Accessories				
CWSME0811	25mmØ Foot Bolt	1	set		
CWSME0815	38mm Ø Barrel Bolt	1	set		
MC	Miscellaneous and Consumables				
MC/G05	Grinding Disc, 4"	10	piece		
MC/G13	Silicon Sealant/ All around Sealant	12	tube		
MC/G19	Acetylene Tank (Refill)	2	tank		
MC/G23	Cut off Blade / Wheel	10	piece		
MC/G27	Drill Bit, 20mm Ø (Metal)	15	piece		
MC/G29	Oxygen Tank (Refill)	4	tank		
MC/G36	Welding Rod (Steel)	76	kg		
CWSPRW	Roofing works				
CWSPRW05	Thermal Insulation				
CWSPRW0503	6.0mm Thick One-Sided Aluminum Foil Thermal Insulation Including Consumables	19	sq.m.		
CWSPRW07	Pre-Painted Roofing, Components and Accessories				
CWSPRW0701	Pre Painted Rib Type Long Span Metal Roofing Sheet, 0.45mm Thick GA 26 with Connection Accessories	19	sq.m.		
CWSPRW0708	Pre Painted G.I. End Flashing, GA 26 x 0.60m	14	l.m.		
CWSPRW08	Fiber Cement Fascia Board				
CWSPRW0802	12mm Thick x 12" Fiber Cement Fascia Board	14	l.m.		
MC	Miscellaneous and Consumables				
MC/G13	Silicon Sealant/ All around Sealant	3	tube		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CI/S01	Blind Rivets and Screws				
CI/S0103	Tekscrew, 12mm x 65mm for Steel Purlins	71	piece		
CI/S0105	Blind Rivet, 1/8" x 1"	7	sq.m.		
			MATERIAL COST I-CWS		₱
			LABOR COST I-CWS		
			DIRECT COST I-CWS		₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I-AW	ARCHITECTURAL WORKS				
AWP	Painting Works				
AWP0101	Flat Latex Paint Finish (Interior Wall - 3 Coats)	53	sq.m.	₽	₽
AWP0102	Elastomeric Paint Finish (Exterior Wall - 3 Coats)	79	sq.m.		
AWP0106	Epoxy Enamel Paint Finish ( Steel Member - 3 Coats)	32	sq.m.		
AWP0108	Flat Latex Paint Finish (Slab Soffit - 3 Coats)	19	sq.m.		
			N	I laterials Cost AWP	₱
			1	Labor Cost AWP	
				Subtotal AWP	₱
AW01	Fabricated Materials				
AWD01	Installation of Doors				
AWW09	D-1 ( 2.0m x 2.10m Swing Type Fully Louvered Metal Door Painted Finish)	1	sq.m.	₽	₽
AWW	Installation of Windows				
AWW09	W-1 (3.0m x 2.0m Full Louvered Window)	2	set		
			Ma	Laterials Cost AW01	₽
				Labor Cost AW01	-
				Subtotal AW01	₽
					•
			MAT	<u>I</u> ERIAL COST I-AW	₽
				ABOR COST I-AW	•
				RECT COST I-AW	₽
					-
I-EW	ELECTRICAL WORKS				
EW01	Pipes				
EW0101	20mmØ PVC Pipe	6	piece	₽	₽
EW05	Fittings And Accessories				
EW05010	20mmØ PVC Adaptor	6	piece		
EW05022	20mmØ PVC Locknut and Bushing	6	pair		
EW06	Boxes and Fabricated Pullbox				
EW0603	50mm x 100mm Metal Utility Box	1	piece		
EW0604	100mm x 100mm Metal Junction Box with Cover	2	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090102b	3.5mm² THHN Wire	50	l.m.		
EW0903	TW Wires		1		
EW090301b	2.0mm² TW Wire	25	l.m.		
EW11	Lighting Fixtures and Other Devices		1		
EW11043	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories, Surface Mounted Type	2	set		
EW10	Wiring Devices				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW1015	Switch with Plate and Cover, One-Gang	1	set		
EW13	Panel Board				
EW1301	Main Breaker (Bolt-On)				
EW130102	LP - EE ROOM	1	piece		
	Main: 20AT , 2P, 100AF, 50kAIC				
	Enclosure: NEMA 1 with Ground Terminals				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MC	Miscellaneous and Consumables				
MC/G07	Masking Tape	1	roll		
MC/G37	GI Tie Wire, Ga. 16	1	kg		
MC/E01	Electrical Tape	5	roll		
MC/E03	Pulling Lubricant	1	can		
MC/E04	Rubber Tape	1	roll		
				Material Cost I-EW	₱
				Labor Cost I-EW	
				Direct Cost I-EW	₱
				MATERIAL COST I	₽
			'	LABOR COST I	Г
				DIRECT COST I	₱
				DIRECT COSTT	<u>r</u>
II	MAIN SERVICE ENTRANCE/POWER DISTRIBUTION	<u> </u>			
II-SW	Site Works				
DEMV001	Chipping of Concrete Wall ( Electrical Works )	59	cu.m.	₽	₱
				Direct Cost II-SW	₱
II-CWS	Civil / Structural Works				
CWSMA	Masonry Works				
CWSMA05	Restoration of Concrete ( Electrical Works )	119	sq.m.	₽	₱
				aterial Cost II-CWS	₱
				Labor Cost II-CWS	
				Direct Cost II-CWS	₱
11 010/	Analyticational Manufacture				
II-AW	Architectural Works				
AWP AWP0101	Painting Works	440		₽	<b>P</b>
AVVPUTUT	Flat Latex Paint Finish (Interior Wall - 3 Coats)	119	sq.m.	P	₱
			<u> </u>	I Material Cost II-AW	₱
			ľ	Labor Cost II-AW	Г
				Direct Cost II-AW	₱
				Direct Cost II-Avv	Г
II-EW	ELECTRICAL WORKS				
	Electrical Works for Structure				
EW01	Pipes				
EW0104	40mm Ø PVC Pipe	27	piece	₽	₽
EW0106	65mm Ø PVC Pipe	170	piece		
EW0107	75mm Ø PVC Pipe	90	piece		
EW0109	110mm Ø PVC Pipe	256	piece		
EW0113	32mm Ø IMC Pipe	5	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW0115	50mm Ø IMC Pipe	8	piece		
EW0116	65mm Ø IMC Pipe	6	piece		
EW0117	80mm Ø IMC Pipe	3	piece		
EW0119	100mm Ø IMC Pipe	10	piece		
EW0134	90mm Ø RSC Pipe	12	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW05	Fittings and Accessories				
EW05004	40mm Ø PVC Elbow	2	piece		
EW05006	65mm Ø PVC Elbow	8	piece		
EW05007	75mm Ø PVC Elbow	6	piece		
EW05009	110mm Ø PVC Elbow	10	piece		
EW05034	32mm Ø IMC Elbow	2	piece		
EW05036	50mm Ø IMC Elbow	2	piece		
EW05037	65mm Ø IMC Elbow	2	piece		
EW05044	32mm Ø IMC Locknut and Bushing	7	pair		
EW05046	50mm Ø IMC Locknut and Bushing	19	pair		
EW05047	65mm Ø IMC Locknut and Bushing	9	pair		
EW05054	32mm Ø IMC Coupling	7	piece		
EW05056	50mm Ø IMC Coupling	19	piece		
EW05057	65mm Ø IMC Coupling	9	piece		
EW05169	40mm Ø PVC End Bell	8	piece		
EW05170	65mm Ø PVC End Bell	26	piece		
EW05171	75mm Ø PVC End Bell	24	piece		
EW05172	110mm Ø PVC End Bell	78	piece		
EW06	Boxes and Fabricated Pullbox				
EW0611	Fabricated Pull Box, (0.35m x 0.35m x 0.25m)	1	piece		
EW0615	Fabricated Pull Box, (0.30m x 0.30m x 0.15m)	1	piece		
EW0616	Fabricated Pull Box, (0.35m x 0.35m x 0.20m)	3	piece		
EW0617	Fabricated Pull Box, (0.35m x 0.35m x 0.30m)	1	piece		
EW0618	Fabricated Pull Box, (0.50m x 0.50m x 0.25m)	1	piece		
EW0619	Fabricated Pull Box, (0.08m x 0.80m x 0.60m)	1	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090103a	5.5mm² THHN Wire	2	roll		
EW090104a	8.0mm² THHN Wire	3	roll		
EW090106b	22mm² THHN Wire	90	l.m.		
EW090107a	30mm² THHN Wire	2	roll		
EW090108b	38mm² THHN Wire	90	l.m.		
EW090109a	50mm² THHN Wire	2	roll		
EW090110a	60mm² THHN Wire	2	roll		
EW090111a	80mm² THHN Wire	1	roll		
EW090113b	125mm² THHN Wire	186	l.m.		
EW090112a	100mm² THHN Wire	2	roll		
EW090117a	250mm² THHN Wire	7	roll		
EW0903	TW Wires				
EW090302a	3.5mm² TW Wire	1	roll		
EW090303a	5.5mm² TW Wire	1	roll		
EW090304b	8.0mm² TW Wire	130	l.m.		
EW090305b	14mm² TW Wire		l.m.		
	22mm² TW Wire	1	ļ		
	<u> </u>		<u> </u>		
	14mm² TW Wire	230			

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW090309a	50mm² TW Wire	2	roll		
EW090309b	50mm² TW Wire	100	l.m.		
EW0904	Bare Copper Wires (Stranded)				
EW090407	30mm² Bare Copper Wire	12	l.m.		
EW16	Pipe Hangers and Supports				
EW1602	Vertical Layout of Pipe	24	lm		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW12	Grounding System				
EW1201	16mm Ø x 3000mm Grounding Rod (Copper Clad) with Ground Clamp	4	set		
EW1203	16mm Ø x 250mm Oval Eye Bolt with Nut	4	piece		
EW13	Panel Board				
ASSY	Main Circuit Breaker (MCB) Main: 3200AT, 3200AF, 3P, 230V, MCCB Enclosure: NEMA 3R with Ground Terminals	1	assy		
ASSY	ATS/LVSG Main: 3200AT, 3200AF, 3P, 230V, MCCB Braches:  1 - 100AT, 3P, 230V 2 - 150AT, 3P, 230V 1 - 175AT, 3P, 230V 1 - 200AT, 3P, 230V 1 - 250AT, 3P, 230V 1 - 500AT, 3P, 230V 1 - 500AT, 3P, 230V 1 - 1000AT, 3P, 230V 1 - 2000AT, 3P, 230V Enclosure: NEMA 12 Free Standing Cabinet Box	1	assy		
ASSY	Ga. #14 G.I. Sheet Cover  DP - SB BUILDING  Main: 100AT, 100AF, 3P, 230V, MCCB  Braches:  3 - 30AT, 3P, 230V Bolt-On  1 - Space  Enclosure: NEMA 1 with Ground Terminals	1	assy		
ASSY	LPP1, 2 & 3 - SB BUILDING  Main: 30AT, 100AF, 3P, 230V, MCCB  Braches:  10 - 20AT, 2P, 230V Bolt-On  Enclosure: NEMA 1 with Ground Terminals	3	assy		
ASSY	DP - SENIOR HIGH BUILDING  Main: 150AT, 200AF, 3P, 230V, MCCB  Braches:  4 - 40AT, 3P, 230V Bolt-On  Enclosure: NEMA 1 with Ground Terminals	1	assy		
ASSY	LPP1, 2, 3 & 4 - SENIOR HIGH BUILDING  Main: 40AT, 100AF, 3P, 230V, MCCB  Braches:  14 - 20AT, 2P, 230V Bolt-On  Enclosure: NEMA 1 with Ground Terminals	4	assy		
ASSY	DP - IMELDA BUILDING  Main: 175AT, 200AF, 3P, 230V, MCCB  Braches:  2 - 100AT, 3P, 230V Bolt-On  Enclosure: NEMA 1 with Ground Terminals	1	assy		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
ASSY	LPP1 & LPP2 - IMELDA BUILDING Main: 100AT, 100AF, 3P, 230V, MCCB	2	assy		
	Braches:				
	15 - 20AT, 2P, 230V Bolt-On 1 - 30AT, 2P, 230V Bolt-On				
	Enclosure: NEMA 1 with Ground Terminals				

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
ASSY		1			
ASST	DP - MATHAY BUILDING	'	assy		
	Main: 200AT, 200AF, 3P, 230V, MCCB				
	Braches:				
	1 - 75AT, 3P, 230V Bolt-On				
	1- 125AT, 3P, 230V Bolt-On				
ASSY	Enclosure: NEMA 1 with Ground Terminals	1	assy		
A331	LPP1 - MATHAY BUILDING	'	assy		
	Main: 125AT, 200AF, 3P, 230V, MCCB				
	Braches:				
	12 - 20AT, 2P, 230V Bolt-On				
	4 - 30AT, 2P, 230V Bolt-On				
ASSY	Enclosure: NEMA 1 with Ground Terminals	1	assy		
7001	LPP2 - MATHAY BUILDING	'	assy		
	Main: 75AT, 100AF, 3P, 230V, MCCB				
	Braches:				
	15 - 20AT, 2P, 230V Bolt-On				
	1 - Space				
ASSY	Enclosure: NEMA 1 with Ground Terminals	1	assy		
7.001	LPP - MPH BUILDING		assy		
	Main: 250AT, 250AF, 3P, 230V, MCCB				
	Braches:				
	3 - 20AT, 2P, 230V Bolt-On				
	12 - 30AT, 2P, 230V Bolt-On				
	4 - 40AT, 3P, 230V Bolt-On				
	1 - Space Enclosure: NEMA 1 with Ground Terminals				
EW19	Transient Voltage Surge Suppressor				
EW1901	30A TVSS	1	piece		
MC	Miscellaneous and Consumables		'		
MC/G06	Hacksaw Blade	20	piece		
MC/G07	Masking Tape	15	roll		
MC/G14	Solvent Cement, 400cc	50	can		
MC/G17	Torch with Butane	15	piece		
MC/G37	GI Tie Wire, Ga. 16	25	kg		
MC/E01	Electrical Tape	10	roll		
MC/E03	Pulling Lubricant	20	can		
MC/E04	Rubber Tape	10	roll		
MC/E12	Warning Tape 3"	1	roll		
			MA	TERIAL COST EW	₱
				LABOR COST EW	
				DIRECT COST EW	₱
			M	ATERIAL COST II	₽
				LABOR COST II	

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				DIRECT COST II	₽

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
UTI	UTILITY AND ANCILLARY WORKS				
UTI-I	Site Works				
CWSE	Earthworks				
106	Excavation	351	cu.m.	₱	₽
SW04	Backfill	180	cu.m.		
			Direc	Cost UTI-I (Labor)	₱
UTI-II	Electrical Utilities				
UT0101	Service Entrance				
UT010112	Service Entrance Post- 0.80m L x 0.50m W x 6m	1	unit	₽	₽
UT0102	Handhole				
UT010206	Hand Hole (1.57m x 1.00m x 1.30m)	1	unit		
UT010207	Hand Hole (1.455m x 1.0m x 1.30m)	1	unit		
UT010208	Hand Hole (1.34m x 1.00m x 1.30m)	3	unit		
UT010209	Hand Hole (1.08m x 1.08m x 1.30m)	2	unit		
UT010210	Hand Hole (1.00m x 1.00m x 1.20m)	5	unit		
UT010211	Hand Hole (0.86m x 0.86m x 1.10m)	1	unit		
UT0103	Grounding Earth Pit				
UT010301	Earth Pit 0.30 x 0.30 x 0.15	1	unit		
UT0108	Concrete Encasement				
UT010805	Concrete Encasement (1.07m Width x 0.42m Height)	7	l.m.		
UT010806	Concrete Encasement (0.74m Width x 0.42m Height)	4	l.m.		
UT010807	Concrete Encasement (0.96m Width x 0.42m Height)	36	l.m.		
UT010808	Concrete Encasement (0.84m Width x 0.42m Height)	33	l.m.		
UT010809	Concrete Encasement (0.71m Width x 0.42m Height)	57	l.m.		
UT010810	Concrete Encasement (0.36m Width x 0.23m Height)	37	l.m.		
UT010811	Concrete Encasement (0.19m Width x 0.19m Height)	4	l.m.		
UT010812	Concrete Encasement (0.23m Width x 0.23m Height)	21	l.m.		
UT010813	Concrete Encasement (0.22m Width x 0.22m Height)	40	l.m.		
UT010814	Concrete Encasement (0.33m Width x 0.33m Height)	54	l.m.		
UT010815	Concrete Encasement (0.33m Width x 0.22m Height)	87	l.m.		
UT0111	Concrete Pad	2	cu.m.		
			1	Material Cost UTI-II	₽
			1	Labor Cost UTI-II	
				Subtotal UTI-II	₽
			†		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
			MATERIAL COST UTI		₱
			LABOR COST UTI		
			DIRECT COST UTI		₽

ITEM CODE WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
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#### **SUMMARY**

ITEM CODE	WOR	K DESCRIPTION AND SCOPE OF WORKS	AMOUNT
OGR	OTHER GENERAL REQUIREME	ENTS (NON - O.C.M.)	₽
	₽		
GR GENERAL REQUIREMENTS I CONSTRUCTION OF ELECTRICAL ROOM II MAIN SERVICE ENTRANCE/POWER DISTRIBUTION UTI UTILITY AND ANCILLARY WORKS		P	
	health protocol relative to the DPWH Memorandum.	TOTAL DIRECT COST B Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit	₽
		TOTAL ESTIMATED COST B	P
		TOTAL ESTIMATED COST A TOTAL ESTIMATED COST B TOTAL ESTIMATED COST VAT	P
		TOTAL APPROVED BUDGET FOR THE COST	₽

## Section IX. Checklist of Technical and Financial Documents

#### **Notes on the Checklist of Technical and Financial Documents**

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary "pass/fail" criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

## **Checklist of Technical and Financial Documents**

#### I. TECHNICAL COMPONENT ENVELOPE

#### Class "A" Documents

Leg	al Do	<u>cuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	(b)	and Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
	(c)	and Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; and
	(e)	Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
Tec	hnica	l Documents
	(f)	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 (please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy); and
	(g)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy); and
	(h)	Philippine Contractors Accreditation Board (PCAB) License;  or  Special DCAB License in case of Joint Ventures:
	(i)	Special PCAB License in case of Joint Ventures; <a href="mailto:and">and</a> registration for the type and cost of the contract to be bid; <a href="mailto:and">and</a> Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
	(j)	or Original copy of Notarized Bid Securing Declaration; and Project Requirements, which shall include the following:  a. Organizational chart for the contract to be bid;
		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 (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy);
		c. 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

see attached prescribed form required by the QC - BAC for Infrastructure and Consultancy); and Original duly signed Omnibus Sworn Statement (OSS);  $\sqcap$  (k) 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. Additional Technical Requirements: Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement • Affidavit of Undertaking for Key Personnel and Equipment (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy) ■ • Equipment Utilization Schedule Manpower Schedule Construction Schedule and S-Curve □ • PERT-CMP ☐ • Construction Methods Financial Documents (1) 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; and The prospective bidder's computation of Net Financial Contracting Capacity П (m) (NFCC) (please see attached prescribed form required by the QC – BAC for *Infrastructure and Consultancy*). Class "B" Documents If applicable, duly signed joint venture agreement (JVA) in accordance with  $\square$  (n) 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. II. FINANCIAL COMPONENT ENVELOPE (o) Original of duly signed and accomplished Financial Bid Form; and Other documentary requirements under RA No. 9184 Original of duly signed Bid Prices in the Bill of Quantities; and П (p) (q) Duly accomplished Detailed Estimates Form, including a summary shee

lessor/vendor for the duration of the project, as the case may be (please

rentals used in coming up with the Bid; and

Cash Flow by Quarter.

indicating the unit prices of construction materials, labor rates, and equipmen

(r)

### 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:

- 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:
- 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 guidelines¹ for this purpose;
- 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;
- 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
- We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

currently based on GPPB Resolution No. 09-2020

- 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 the [Name of Project] of the [Name of the Procuring Entity].
- 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]

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

I/We, the undersigned, declare that:

- 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.
- I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
  - Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - 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
  - 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;
  - 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.
- 11. We pledge that the project will be completed in accordance and congruency with the approved plans and programs.

N 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]

#### Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

#### CONTRACT AGREEMENT

THIS AGREEMENT, made this [insert date] day of [insert month], [insert year] between [name and address of PROCURING ENTITY] (hereinafter called the "Entity") and [name and address of Contractor] (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute [name and identification number of contract] (hereinafter called "the Works") and the Entity has accepted the Bid for [contract price in words and figures in specified currency] by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

#### NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - a. Philippine Bidding Documents (PBDs);
    - Drawings/Plans:
    - ii. Specifications;
    - iii. Bill of Quantities:
    - iv. General and Special Conditions of Contract;
    - v. Supplemental or Bid Bulletins, if any;
  - Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- c. Performance Security;
- d. Notice of Award of Contract and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. <u>Winning bidder agrees that</u> additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.
- In consideration for the sum of [total contract price in words and figures] or such other sums as may be ascertained, [Named of the bidder] agrees to [state the object of the contract] in accordance with his/her/its Bid.

4. The [Name of the procuring entity] agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

[Insert Name and Signature] [Insert Name and Signature]

[Insert Signatory's Legal Capacity] [Insert Signatory's Legal Capacity]

for:

for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

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

NAME OF CONTRACTOR:	

PROJECT TIFLE	 MOSE CONCENSATION AND CONTRACTOR AND		TOTAL	PERCENTAGE						
[Name of the Contract] DATE OF CONTRACT PROJECT OWNER & NATURE OF WORK  E EXACT PROJECT LOCATION DURATION POSTAL ADDRESS NATURE OF WORK	INTEREST IN A 3/) and PERCENTAGE OF PARTICIPATION	CONTRACT VALUE AT AWARD	COMPLETION of ESTIMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPUSHMENT	PLANNED ACCOMPUSHMENT	VALUE OF OUTSTANDIN WORKS (IN PHP)			
								TOTAL AMOUNT OUTSTANDING V		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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## NAME OF CONTRACTOR: PROJECT TITLE: \_\_\_\_\_ ROLE OF BIDDER IN THE MAJOR SCOPE OF WORKS & DATE CONTRACT PRICE CONTRACT SOLE NAME AND ADDRESS DATE OF SCHEDULED PROJECT TITLE & EXACT LOCATION STARTED OF PROJECT OWNER (PHP) AS AWARDED CONTRACTOR / SUB-COMPLETION CONTRACTOR/PARTNER IN A TOTAL AMOUNT

OF CONTRACT (Php)

LIST OF ALL AWARDED BUT NOT YET STARTED GOVERNMENT AND PRIVATE CONTRACTS OF THE BIDDER

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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# NAME OF CONTRACTOR: PROJECT TITLE:

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE SOLE CONTRACTOR, SURCONTRACTOR, PARTHNER IN A JVI and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION OF ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

	4	
Page	0.04	
- W. B. W.		

#### LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:				
DDOISCT TITLE				
PROJECT TITLE:				

ТҮРЕ	DESCRIPTION / CAPACITY	SERIAL NO.	YEAR ACQUIRED	PRESENT LOCATION (SPECIFIC ADDRESS)	STATUS OF AVAILABILITY (OWNED/LEASED)

Page		
1 age	OI.	

#### A. LIST OF KEY CONSTRUCTION PERSONNEL TO BE ASSIGNED TO THE PROJECT

NAME OF CONTRACTOR:			
PROJECT TITLE:			

NAME	POSITION	AGE	EDUCATIONAL ATTAINMENT	TYPE OF CONSTRUCTION EXPERIENCE	NO.OF YEARS WITH THE CONTRACTOR	PROFESSION	PRC NO.

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## COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:				
	CURRENT ASSETS*		PHP	
	(LESS) CURRENT LIABILITIES*	(LESS)	PHP	
	NETWORTH		PHP	
	NETWORTH x 15	x 15	PHP	
	(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**	(LESS)	PHP	
	(LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE**	(LESS)	PHP	
	NET FINANCIAL CONTRACTING CAPACITY		PHP	

NOTES:

- CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.
- \*\* BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

KELU	) S. S.		
	AFFIDAVIT OF UNDERTAKING		
REPR	I, of legal age, Filipino,	[OFFICER	OF
with o	office address at g been duly sworn to in accordance with law, hereby voluntary depose and stat		afte
having	g been duly sworn to in accordance with law, hereby voluntary depose and stat	te:	
	That I am duly authorized representative of the <u>IName of Bidder</u> undertaking as evidenced by Secretary's Certificate and Board Resolution.	to execute	this
	That [Name of Bidder] bidding for the (Name of Project)		
	That relative to the aforementioned Project, the <u>[Name of Bidder]</u> here that the equipment to be use and the key personnel to be assign shall exclusive will only perform to the said project until its completion.	by undertake rely be used a	and
	That I am executing this affidavit to attest to the truth of the foregoing and in with the submission of the technical requirements for the public bidding of the	compliance se said projec	t.
of	IN WITNESS HEREOF, I have hereunto signed my name below thi	s	day
	AFFIANT FURTHER SAYETH NAUGHT.		
	Affiant		
	SUBSCRIBED AND SWORN TO BEFORE ME this day of		_
affiant		issued	at
Doc. No	0. ;		
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Notary Public

