



REPUBLIC OF THE PHILIPPINES
QUEZON CITY GOVERNMENT
BIDS AND AWARDS COMMITTEE –
INFRASTRUCTURE AND CONSULTANCY SERVICES



PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

**PROPOSED INSTALLATION OF STREETLIGHTS IN
BARANGAY FAIRVIEW, BARANGAY STA. MONICA,
BARANGAY KALIGAYAHAN AND BARANGAY SAN
AGUSTIN**

**Project number:
25-00011**

**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.



Republika ng Pilipinas
Lungsod Quezon

BIDS AND AWARDS COMMITTEE ON INFRASTRUCTURE & CONSULTANCY

Second Floor, Civic Center Building F, Quezon City Hall Complex, Elliptical Road, Quezon City

8988-4242 local 8712 / 8710 / 8709

bacinfra.procurement@quezoncity.gov.ph



March 04, 2025

Invitation to Bid

			Location	Estimated Cost	Duration (Months)	Office	Source Fund
<u>Building – Small B</u>							
1	25-00005	Proposed Rehabilitation of Quezon City Public Library at Barangay Commonwealth	Commonwealth	₱7,603,713.18	120	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)
2	25-00006	Proposed Construction of Waiting Shed at Various Barangays in District 3	Various Barangays	₱9,171,107.19	180	Department of Engineering	General Fund - Department of Engineering
3	25-00007	Proposed Construction of Various Facilities in Quezon City University - Batasan Campus at Barangay Batasan Hills	Batasan Hills	₱14,114,764.69	240	Department of Engineering	Trust Fund - Quezon City University
<u>Building – Medium A</u>							
4	25-00008	Proposed Rehabilitation of Tech Voc Building at Quezon City University (QCU) in Barangay San Bartolome	San Bartolome	₱56,903,811.88	300	Department of Engineering	Trust Fund - Quezon City University
<u>Building – Medium B</u>							
5	25-00009	Proposed Construction of Four (4) Storey with Deck Galas Public Market Building 2 (Completion Phase) at Barangay San Isidro Galas	San Isidro Galas	₱176,699,374.45	420	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)
<u>Electrical Work – Small B</u>							
6	25-00010	Proposed Installation of Streetlights in Barangay Sauyo, Pasong Tamo, Culiati, and Sangandaan	Sauyo, Pasong Tamo, Culiati, Sangandaan	₱9,706,803.42	60	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)
7	25-00011	Proposed Installation of Streetlights in Barangay Fairview, Barangay Sta. Monica, Barangay Kaligayahan and Barangay San Agustin	Fairview, Sta. Monica, Kaligayahan, San Agustin	₱22,709,155.81	180	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)

Electrical Work – Medium A

8	25-00012	Proposed Installation of Streetlights in Barangay Damar, Veterans Village, San Antonio, Bahay Toro, Sta. Teresita and Ramon Magsaysay	Damar, Veterans Village, San Antonio, Bahay Toro, Sta. Teresita, Ramon Magsaysay	₱37,413,480.05	240	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)
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Flood Control – Small B

9	25-00013	Proposed Rehabilitation of Road and Drainage at 204 Kasunduan Extension in Barangay Commonwealth	Commonwealth	₱3,117,024.83	150	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)
10	25-00014	Proposed Rehabilitation of Road and Drainage at Alley 1 and 2, Lower Everlasting Street in Barangay Commonwealth	Commonwealth	₱5,592,654.73	180	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)
11	25-00015	Proposed Rehabilitation of Drainage System at San Juan and San Pedro Street (Pilaring Street to Susana Street) in Barangay Gulod	Gulod	₱22,517,341.80	150	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)
12	25-00016	Proposed Drainage System at Road 23 from Dead End (Sta. 0+000) to Shorthorn Street (Sta. 0+383) in Barangay Bahay Toro	Bahay Toro	₱28,995,298.45	150	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)

Flood Control – Medium A

13	25-00017	Proposed Rehabilitation of Road and Drainage at Battalion Street, Patibay 1 Hoa, and Filinvest 2 Road in Barangay Batasan Hills	Batasan Hills	₱39,039,636.24	210	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)
14	25-00018	Proposed Drainage System at Malac Street in Barangay Masambong	Masambong	₱69,145,136.96	270	Department of Engineering	General Fund - Office of the City Mayor (20% Community Development Fund)

Park – Small B

15	25-00019	Proposed Landscaping Development of M.I.C.E Center Building	Central	₱7,624,257.54	135	Parks Development and Administration Department	General Fund - Office of the City Mayor (20% Community Development Fund)
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1. 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.
2. 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).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from **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 **05 March 2025 (Wednesday)** 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 500,000 up to 1 Million	1,000.00
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;

1. PhilGEPS Registration Certificate (Platinum - 3 Pages)
2. 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 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bidding Conference on **March 13, 2025 at 09:00 AM** at **2nd 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

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **March 27, 2025 – 9:00 AM**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 16**.

9. Bid opening shall be on **March 27, 2025 – 10:00 AM** at **2nd 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

2nd 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: <https://quezoncity.gov.ph/public-notices/procurement/>

By:


MS. MARIAN C. ORAYANI

Chairperson, BAC-Infrastructure 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 INSTALLATION OF STREETLIGHTS IN BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN AND BARANGAY SAN AGUSTIN**, with Project Identification Number **25-00011**.

[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 **2025** in the amount of **Twenty-Two Million Seven Hundred Nine Thousand One Hundred Fifty-Five Pesos and 81/100 Centavos Only (P 22,709,155.81)**.

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 criteria 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 **March 13, 2025 at 09:00 AM 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	<i>No additional contractor license or permit is required</i> <i>In addition, eligible bidders shall qualify or comply with the following:</i> 1. Bidders with valid Philippine Contractors Accreditation Board (PCAB) Type Electrical Works - Small B																																				
10.4	<p>The minimum work experience requirements for key personnel are the following:</p> <table><tr><th>Qty.</th><th>Key Personnel</th><th>General Experience</th><th>Relevant Experience</th></tr><tr><td>1</td><td>Project-in-Charge (Project Engineer)</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>General Foreman</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Trade Engineers / Leadman for Civil Works</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Trade Engineers / Leadman for Electrical Works</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Safety Officer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>DPWH duly accredited Materials / QA / QC Engineer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Cost Engineer / Project Scheduler</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Surveyor</td><td>3 years</td><td>3 years</td></tr></table> <i>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.</i>	Qty.	Key Personnel	General Experience	Relevant Experience	1	Project-in-Charge (Project Engineer)	3 years	3 years	1	General Foreman	3 years	3 years	1	Trade Engineers / Leadman for Civil Works	3 years	3 years	1	Trade Engineers / Leadman for Electrical Works	3 years	3 years	1	Safety Officer	3 years	3 years	1	DPWH duly accredited Materials / QA / QC Engineer	3 years	3 years	1	Cost Engineer / Project Scheduler	3 years	3 years	1	Surveyor	3 years	3 years
Qty.	Key Personnel	General Experience	Relevant Experience																																		
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1	Cost Engineer / Project Scheduler	3 years	3 years																																		
1	Surveyor	3 years	3 years																																		
10.5	<p>The minimum major equipment requirements are the following:</p> <table><tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr><tr><td>Dumptruck</td><td>12 yd3</td><td>1</td></tr><tr><td>Plate Compactor</td><td>5hp</td><td>1</td></tr><tr><td>Book Truck</td><td></td><td>1</td></tr><tr><td>Back Hoe</td><td>0.8 Cu.M</td><td>1</td></tr><tr><td>One Bagger Mixer</td><td></td><td>1</td></tr></table>	Equipment	Capacity	Number of Units	Dumptruck	12 yd3	1	Plate Compactor	5hp	1	Book Truck		1	Back Hoe	0.8 Cu.M	1	One Bagger Mixer		1																		
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	Jack Hammer	1
	<i>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.</i>	
12	<i>[Insert Value Engineering clause if allowed.]</i>	
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:</p> <p>a) The amount of not less than Php 454,183.12 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</p> <p>b) The amount of not less than Php 1,135,457.79 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.</p>	
19.2	Partial bid is not allowed. 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	<p>Additional Contract Documents relevant to the Project as required:</p> <ol style="list-style-type: none"> 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 One Hundred Eighty (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: <i>[list here the required site investigation reports.]</i>
7.2	<p><i>[Select one, delete the other.]</i></p> <p><i>[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]</i> Fifteen (15) years.</p> <p><i>[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p>
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more than 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	<p>The date by which operating and maintenance manuals are required is <i>thirty (30) days</i></p> <p>The date by which "as built" drawings are required as part of final payment</p>
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.



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PROJECT TITLE : PROPOSED INSTALLATION OF STREETLIGHTS IN BARANGAY FAIRVIEW,
BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN AND BARANGAY
SAN AGUSTIN
LOCATION : BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY
KALIGAYAHAN AND BARANGAY SAN AGUSTIN, DISTRICT 5, QUEZON CITY

**GENERAL AND TECHNICAL SPECIFICATIONS AND SPECIAL
CONDITIONS OF CONTRACT**

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I. GENERAL CONDITIONS

1. DEFINITIONS

- A. OWNER : Local Government of Quezon City
- B. CONTRACTOR: Any person, entity, company, partnership, or association that enters an agreement with the Owner to provide materials, labor, tools, equipment, machinery, and other necessary facilities for the construction and finalization of the project as outlined in the accompanying plans and drawings.

2. EXAMINATION OF MEMBER

The Contractor must thoroughly inspect the premises prior to submitting any bids to ensure they have the complete understanding of the existing conditions.

3. LOCATION

The project is situated and must be referred to the approved Location Plan.

4. EXECUTION, CORRELATION AND INTENT OF DOCUMENTS

- A. The Contract Documents shall be signed by all parties in an adequate number of copies. Should any party fail to sign any item within the set of contract documents, identification by the Implementing Agency shall serve as sufficient validation.
- B. The items, specifications, and all other documents that constitute the contract are interrelated. Anything depicted in the plans but not explicitly detailed in the specifications, or vice versa, and anything not expressly stated in either but inherently implied, shall be provided or executed as if explicitly shown and stated in both, without additional cost. Where dimensions are provided numerically, they take precedence over measurements taken by scale.
- C. Carry out the work in strict accordance with the agreement, refraining from making any alterations or deviations without prior approval from the Implementing Agency.
- D. The Contractor is responsible for verifying and cross-checking all dimensions, particularly those specified in the plans. Any discrepancies found during the execution of the work will be the Contractor's direct responsibility.

5. DETAILED DRAWINGS AND INSTRUCTIONS

The supplementay documents and/or additional details / drawings and instructions necessary for the proper execution of the work shall be provided at the jobsite as required. These supplementary documents shall have equal authority as if they were originally included.

6. PLANS AND PROJECT SITE

Ensure that one (1) complete set of approved plans, specifications, supplementary detail drawings, and instructions is kept in good order and condition at the project site.

7. SHOP DRAWINGS

During construction, the Implementing Agency and/or Contractor shall provide shop drawings if deemed necessary. The Contractor must refrain from installing any item requiring shop drawings until such drawings have been duly approved by the Implementing Agency.

8. REVISIONS

The Owner and the Implementing Agency may alter or revise the plans, including changes during the project's progress, without breaching the terms of the agreement as much as possible within the project schedule. Any additional costs incurred for labor or materials will be added to or deducted from the original contract price as necessary and validated.

9. PROJECT SCHEDULE

The Contractor is required to prepare and submit to the Implementing Agency, prior to commencing project operations, a comprehensive work schedule outlining the entire construction duration. This schedule must include estimated timeframes for completing each project stage and phase (Milestone).

10. WORKMANSHIP

The project shall be completed with top-tier workmanship in strict accordance with the plans and specifications, ensuring full approval and acceptance from the Implementing Agency.

11. MATERIALS

Only materials of the highest quality for their respective types shall be used unless otherwise stated in the plans and technical specifications. They must be stored and protected adequately to prevent damage.

12. INSPECTION OF WORK

The Contractor shall make the work accessible for inspection by the Implementing Agency, the Owner, and other authorized personnel overseeing the project.

13. SUBSTANDARD WORK

Any work or materials deemed unacceptable by the Architect must be promptly removed and replaced with suitable alternatives at no additional cost. Disposed materials must be promptly removed from the premises.

14. LAWS AND REGULATIONS

The Contractor is responsible for adhering to all current labor laws and regulations. They shall indemnify the Owner from any associated liabilities, and at their own cost, promptly settle all taxes, fees, and licenses owed to the government—both national and local—resulting from their work on the project.

15. MANNER OF PAYMENT

Payments to the Contractor will be made based on the progress of work completed within each period, subject to verification, approval, and recommendation by the Implementing Agency.

16. RETENTION MONEY

Progress payments will have a ten percent (10%) retention withheld. The retained funds will be released upon satisfactory completion of the work and issuance of the Certificate of Final Completion and Acceptance.

17. TEMPORARY FACILITIES

The Contractor is responsible for arranging temporary water, power, and telephone services from local utility companies throughout the construction period. All associated costs is included in the contract and shall be shouldered by the Contractor. The Contractor

must provide a temporary restroom in a discreet and sanitary manner, and it must be removed once the work is completed.

18. SITE CLEARING

The site must be clean, cleared and ready for occupancy prior to the issuance of the certificate of completion and acceptance. No construction debris must be left on the site premises.

19. TEMPORARY BARRICADES, SIGNAL LIGHTS, BILLBOARDS, ETC.

The contractor shall provide all necessary measures such as but not limited to temporary enclosures, billboards and safety signages that must be visible on the site premises.

20. PERFORMANCE AND GUARANTEE BOND

To ensure the Contractor's faithful performance under the contract, they must provide a Performance Bond equivalent to thirty percent (30%) of the contract price. The bond can be in the form of cash, manager's check, or surety bond, callable upon request.

21. TESTING AND COMMISSIONING

The Contractor shall ensure that comprehensive testing and commissioning of the equipment/system is included as an integral part of the performance obligations under this Contract. Testing shall be conducted in accordance with industry standards and shall verify that the equipment/system meets all specified performance criteria and operational requirements set forth in the Contract documents.

22. WARRANTY OBLIGATION

The Contractor hereby warrants that the equipment/system provided under this Contract shall be free from defects in materials and workmanship for a period stated in the technical documents such as but not limited to plans and technical specifications from the date of commissioning. This warranty includes, but is not limited to, ensuring that the equipment/system functions in accordance with its specifications and is suitable for its intended purpose as outlined in the Contract.

23. CONDITIONS OF WARRANTY

The warranty provided herein shall be subject to the following conditions: a. Any defect or non-conformance discovered during the warranty period shall be promptly reported to the Contractor in writing. b. The Contractor shall, at its own cost and expense, promptly repair or replace any defective parts or components of the equipment/system covered under this warranty. c. The warranty shall not cover damages or defects resulting from misuse, neglect, improper installation, alterations, accidents, or unauthorized repair or modification of the equipment/system.

24. QUESTIONS AND DISAGREEMENTS

Any questions or disputes between the Contractor and the Owner regarding the interpretation of the plans and specifications shall be referred to the Implementing Agency. The decision of the Implementing Agency on such matters shall be binding and final.

II. TECHNICAL SPECIFICATIONS

1. 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 arising therefrom.
- B. 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.
- E. 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 defective.
- G. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- H. Mobilization and Demobilization (if applicable)
 - 1. 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.
 - 2. 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 specifically for this contract.
- I. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - 1. A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
 - 2. 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 square meters and a glazed window area of at least 2 square meters.

3. 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.
 4. Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed.
 5. Construction safety shall consist of construction canopy and safety net.
- K. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
 - L. A systematic approach for managing vehicular and pedestrian traffic within the project area shall be provided adhering to relevant regulations and standards, prioritizing the safety of workers, motorists, and pedestrians while maintaining the flow of traffic during construction activities. It shall delineate designated traffic routes, temporary signage, and traffic control measures such as flagging operations or temporary traffic signals.
 - 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.

2. 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 pavements, 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.

Trenches or foundation pits for structures or structure footings shall 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 excavation is completed, the Contractor shall notify the Engineer to that effect and no footing, 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 suitable, 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 materials 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 layer shall be thoroughly compacted by wetting, tamping and rolling.

3. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORKS

1. **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 shall 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. **Materials**
 - a. Cement 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, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
 - c. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be coarse, sharp, clean free from salt, dust, loam, dirt 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 larger 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.
4. **Proportioning and Mixing**
 - a. 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 "B" - 1: 2: 4
Class "C" - 1: 2 ½
 - b. Concrete mixture to be used for concrete shall conform with the structural requirements.
 - c. Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

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 1/4" (6mm) thick ordinary plywood and form lumber.
- b. Cleaning of Forms – before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, 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 tie wires, chairs, spacers, supports and other devices necessary to install and secure the reinforcement properly. 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.
- b. Placing – concrete shall be worked readily into the corners 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 items, 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 cased 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.

- e. 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-sand 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.
- b. 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 ground to a smooth surface to remove all joint marks of the form works.
- b. Concrete Slabs on Fill. The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

B. METAL FABRICATION

1. Materials:

- a. Steel and Iron. If not specified otherwise, use standard mill-finished structural steel shapes or bar iron in compliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for buildings.
- b. Bolts, Nuts, Studs and Rivets. ASTM A 307 and A 325.
- c. Screws. Fed. Spec FF-S-85, Fed. Spec FF-S-92, and Fed. Spec. FF-S-111.
- d. Metal Purlins. High grade galvanized steel with minimum tensile strength of 275 MPa, 1.4mm in thickness or approved equal.

2. Fabrication:

By mechanics skilled in the trade and in accordance with the manufacturer's directions. Metalwork shall be fabricated to allow for expansion and contraction of materials. Provide welding and bracing of adequate strength and durability, with tight, flush joints, dressed smooth and clean. Complete with bolts and nuts.

3. Metal Surfaces:

Surfaces shall be clean and free from all scale, flake, rust and rust pitting; well-formed and finished to shape and size, with sharp lines, angle and smooth surface. Shearing and punching shall leave clean true lines and surfaces. Weld or rivet permanent connections. Weld and flush rivets shall be used and finished flush smooth on surfaces that will be exposed after installation. Do not use screws or bolts where they can be avoided; when used, heads shall be countersunk, screwed up tight and threads nicked to prevent loosening.

4. Construction:

Thickness of metals and details of assembly and supports shall give ample strength and stiffness for the minimum loads specified or indicated. Joints exposed to weather shall be formed to exclude water.

5. Welding:

Use welding electrode E70xx and perform welding, welding inspection and corrective welding in accordance with AWS D1.1. Weld in a manner to prevent permanent distortion of the connected parts. Weld continuously along the entire area of contact (except where tack welding is permitted. Do not tack weld exposed to connections). Grind smooth visible weld in finished installation.

4. ARCHITECTURAL WORKS

A. WALL FINISHES

- **Cement Plaster Finish.** Mortar mixture for brown coat shall be freshly prepared and uniformly mixed in the proportion by volume of one part Portland cement, three (3) parts sand and one fourth (1/4) part hydrated lime.

Finish coat shall be pure Portland cement properly graded conforming to the requirements and mixed with water to approved consistency and plasticity.

B. PAINTING WORKS

1. **Paint Materials.** All types of paint material and other related 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.
2. **Tinting Colors.** Tinting colors shall be first grade quality pigment ground in alkyd resin that 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.
3. **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. **Paint Schedule.**
 - a. **Exterior Masonry Wall (plain cement plastered finish to be painted)**
 - i. 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish
 - b. **Metal / Steel Surfaces**
 - i. 1 coat primer, 2 coats 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 sealed 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 or imperfections in plaster shall be filled with patching compound and smoothed off to match adjoining surfaces.

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:

- a. Voids, cracks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces.
 - b. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
 - c. Panting and varnishing works shall not be commenced when it is too hot or cold.
 - d. Allow appropriate ventilation during application and drying period
 - e. All hardware will be fitted and removed or protected prior to painting and varnishing works.
6. 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 flowed out after application of paint.

Paints made for application by roller must be similar to brushing paint. It must be non-sticky 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.

7. Application shall be as per paint Manufacturer's specification and recommendation.
8. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
9. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
10. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
11. All exposed finish hardware, lighting fixtures and accessories, 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 endangered by stains and paint marks should be taped and covered with craft paper.

5. ELECTRICAL WORKS

A. DESCRIPTION

This item shall consist of the furnishing of materials, equipment and labor for the installation of roadway lighting works which includes the street light posts and concrete footings/ foundations, panel board (Lighting Contactor/Control Panel), electrical services including all conduits, pull boxes and junction boxes, wires and cables, photocell control concrete pedestal and meter base, luminaires and its accessories, emergency tunnel lightings, programmable logic controller (PLC) and built-in advertising display (other installed accessories).

The location of street lighting posts shown on the Drawings are approximate and the exact location shall be determined/established by the Engineer in the field.

B. MATERIAL REQUIREMENTS

All materials shall be brand new and shall be of the approved type. It shall conform to the requirements of the Philippine Electrical Code and the products locally manufactured shall bear a Philippine Standard (PS) mark, while imported products shall bear Import Commodity Clearance (ICC) certification marks duly issued by the Bureau of Philippine Standards (BPS).

C. CORROSION PROTECTION

Ferrous metal raceways, cable armor, boxes, cable sheathing, cabinets, elbows, couplings, nipples, fittings, supports, and support hardware shall be permitted to be installed in concrete or in direct contact with soil. Corrosion protection shall be provided in areas subject to severe corrosive influences where made of material approved for the condition, or where provided with corrosion protection approved for the condition as indicated in the Plans or as approved by the Engineer.

D. SYSTEM PROTECTION

All street lighting systems shall be protected by an overcurrent device. The overcurrent device shall be sized rated or setting not higher than the allowable ampacity of the conductor. The circuit breakers shall be of the thermal magnetic type having inverse-time tripping characteristics on overload and instantaneous trip on short circuits, shall be equipped with arc quenchers, shall have quick-make and quick-break toggle mechanism, and shall have trip-free operating handles. Each multi-pole breaker shall have a common trip so that an overload on one pole will automatically cause all poles of the breakers to open.

E. STREET LIGHTING POST AND CONCRETE FOOTING

• STREET LIGHTING POST

Street Lighting Posts shall adhere to the details as indicated on the Plans. For Single-Arm and Double-Arm Post, rising a minimum of 8.0 meters above finished ground with a maximum of 3 meters overhang.

All posts shall be designed to withstand, with the associated luminaires, a wind velocity of 250 kilometers per hour determined in accordance with AASHTO LTS-6, Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals while supporting luminaires having effective projected area indicated. Poles shall be anchor-: based types designed for use with underground supply conductors.

All posts shall have an inspection door or hand hole and shall have a suitable gasketed screw cover. After the post has been erected, sealed and fixed in the foundation block, a coat of finishing aluminum paint shall be applied. Posts shall be provided with galvanized steel anchor bolts threaded top end and with a hooked bent at an angle end at the bottom. Size of the anchor bolts shall be as indicated on the Plans.

Pole shaft shall be made in accordance with ASTM A53M, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated, Welded and Seamless.

Anchor bases shall be provided with hot-dipped, galvanized steel anchor bolts with double nuts and washers, threaded at the top end and bended at 90° at the bottom end. Galvanized nuts, washer, and ornamental covers shall also be provided for anchor bolts. Galvanizing shall be in accordance with the requirements of ASTM A153, Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware or AASHTO M 111, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products (ASTM A123) for the fittings.

- **LUMINAIRE AND HOUSING**

All lighting fixtures and lamps are as specified and listed on the lighting fixture schedule.

Luminaires shall be made of heated die cast aluminum and alloy and painted with an electrocoat gray paint finish or shall be designed, equipped and gasketed to preclude any entry of water or dust into the interior surfaces under high wind conditions.

The Contractor shall supply, install, and replace defective lamp in the first 12 months of defect liability period. The luminaire shall be designed to operate at 230 volts, A.C., 60 hertz, single-phase and shall be in compliance with UL 1598, and an IEC 529 Ingress protection 55 (IP55) construction. Luminaires with complete lamps of the number, type and wattage indicated shall be provided. Luminaires for roadway lighting shall be the shallow glass "cobra head" style, "vertical" head style, or "high mast" style or as indicated on the Plans.

The acceptable levels of luminance shall be achieved under normal operation.
Light Emitting Diode (LED) luminaire Requirements:

1. Housing shall be primarily constructed of corrosion-resistant cast aluminum with a powder coated finish of a neutral color.
2. All mounting hardware shall be of non-corrosive or suitably protected metal.
3. Driver and LED modules shall be replaceable as separate units with tool-less plug-in electrical connections.
4. Luminaire housing shall be UL listed for wet locations. Optical assembly shall be minimum IP-66 rated per IEC.

- **CONDUIT**

Conduit shall be provided in the size as indicated on the Drawings. Conduits shall be standard rigid steel, zinc coated or galvanized. Intermediate metal conduit shall be used if shown or specified on the Plans.

Fittings such as locknuts and bushings shall be galvanized. Exposed conduits for service entrance shall be galvanized intermediate metallic conduit and fittings and shall conform to ANSI C 80.1, Galvanized Rigid Conduit. Tapped conduit hub shall be provided for the panel board.

- **STREET LIGHTING POST CONCRETE FOOTINGS**

Street lighting post concrete footing shall be Class A and shall conform with Subsection 405.2, Material Requirements of item 405, Structural Concrete.

All electrical lighting post footings with dimensions indicated in the Plans shall be reinforced concrete and shall conform with the requirements for concrete structures of this Specification. Excavation and backfill for foundation including disposal of surplus material shall be provided. Excavated holes for concrete footings shall be neat or properly formed and free from loose materials when the concrete is placed.

When placed, the concrete shall be well consolidated to completely fill and devoid in the hole and around the post when embedded. Concrete shall be moist cured for not less than 4 days.

• ELECTRICAL CONDUCTORS AND GROUNDING

Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and the products locally manufactured shall bear a Philippine Standard (PS) mark, while imported products must bear Import Commodity Clearance (ICC) certification marks duly issued by the BPS.

All wires shall be copper, soft drawn, annealed smooth and of cylindrical form and shall be centrally located inside the insulation. Conductor sizes shall be not less than the indicated sizes on the Drawings.

All non-current carrying metallic parts like conduits, cabinets, and equipment frames shall be properly grounded in accordance with the Philippine Electrical Code, latest edition.

The size of the ground rods and ground wells shall be as shown on the Plans. The resistance shall not be more than 5 ohms. Grounding wire shall be made of bare copper stranded, soft drawn wire and shall be installed in one continuous length without splice or joint. Ground rods shall be made of copper-clad steel of not less than 20 mm diameter x 3 meters in length driven in full length into earth.

• LIGHTING CONTROL PANEL/PANELBOARD

All panelboards shall conform to the schedule of panelboards as shown on the Plans with respect to supply characteristics, ratings of main lugs or main circuit breaker, number, ratings, and capacities of branch circuit breakers. Panelboard cabinets shall be designed and fabricated for pole surface mounted. Enclosures shall be fabricated to be watertight, dust tight, temper proof, dead front suitable for outdoor installation, and for 230 volts, single-phase, 60 Hertz application in accordance with National Electrical Manufacturers Association (NEMA) requirements.

The interior and exterior of cabinet shall be given two coats of the manufacturer's standard paint which is light gray in color. Conduit entry shall be at the top and bottom. A directory holder shall be provided inside the panel and ground lug for ground wire connection. Nameplate of laminated plastic shall be attached by means of stainless-steel rivets or permanent adhesive showing panelboard number.

• CIRCUIT BREAKERS

All circuit breakers shall be plug in and thermal magnetic type, manually or electrically operated as required with ratings and capacity as shown on the Plans.

All circuit breakers shall have inverse-time tripping characteristics on overload and instantaneous trip on short circuits. It shall have quick make or break toggle mechanism, trip-free operating handle, and shall be equipped with arc quenches.

Each multi-pole breaker shall be designed to have a common trip so that an overload or short on one pole will automatically cause all poles of the breakers to open.

All circuit breakers shall be ambient compensated to 50 °C to carry full rated current with uniform tripping characteristics throughout the temperature range from 25 °C. The circuit shall have an interrupting rating of not less than 14,000 symmetrical amperes of 230 volts, AC.

- **TERMINAL CONNECTOR**

Connectors for wiring shall be rated at least 600 volts and shall be of the following types:

For 5.5 mm² and smaller conductors/cables: Rugged material, such as phenolic, shall be mounted end-to-end without spacing. The pressure type tin plate copper connectors shall have non-flammable and self-extinguishing insulation with temperature rating equal to that of the conductor insulation.

For 8.0 mm² and above conductors/cables: Type of construction shall be one-piece and material shall be phenolic. Terminal configuration shall be done by binding screw terminals. Solderless type connector made of compact, high strength, high copper alloy, split-bolt, free running threads and highly resistant to corrosion and cracking shall be used. Maximum pressure and assure/secure connection on all combinations of run and tap conductors shall be provided.

- **MAIN FEEDER DISTRIBUTION SYSTEM**

The Main Feeder Distribution System in roadway lighting works is composed of the following:

1. Conduit

The Material Requirements shall conform with Subsection 624.2.3.5, Material Requirements of Conduit.

2. Electrical Conductors (Wires and Cables)

The Material Requirements shall conform with Subsection 624.2.3.8, Material Requirements of Electrical Conductors.

3. Lighting Control Panel/Panel board

The Material Requirements shall conform with Subsection 624.2.4, Lighting Control Panel/Panel board.

- **TEST AND GUARANTEE**

Upon completion of the electrical construction work, the Contractor shall provide all test equipment. The Contractor shall then submit copies of all test results to the Engineer.

After the installation of all cables, the Contractor shall test the insulation resistance of all feeders and connected equipment with a 600 volts megger for grounds and short circuits. Testing shall include measuring of insulation resistance. These measurements shall be recorded by feeder and branch circuit number indicating the resistance values between phases and ground.

All effective and calibrated apparatus, materials and labor required for conducting tests shall be supplied and made available by the Contractor.

The Contractor shall guarantee that the electrical installation is done and in accordance with the 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 (1) year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

- **METHOD OF MEASUREMENT**

The work under this item shall be measured either by lengths, pieces, pairs, lot, and set actually placed and installed as shown on the Plans.

The quantity of street lighting and electrical work to be paid for shall be the number of lighting posts of single and double luminaires to include all conduits, luminaires, all wirings, panelboard, nuts, washer, concrete footing, fasteners, conduit clamps, bolts, capacitors, coils and others including all necessary materials and accessories needed for moisture and fungus control, corrosion protections and all other incidentals needed to make the system operational and accepted to comply with the requirements of the latest edition of the Philippine Electrical Code, Part 2 and any other ordinances including payment of necessary permits from local enforcing authorities.

III. SPECIAL CONDITION

1. Government and Legal Requirements

- **Permits & Approvals** – Secure approval from the local government, Department of Public Works and Highways (DPWH), or city engineering office.
- **Zoning and Land Use Laws** – Ensure compliance with local ordinances regarding street lighting.
- **Right of Way (ROW) Clearance** – Check if the installation site is on public or private property.

2. Technical Requirements

- **Lighting Standards** – Follow standards like those from DPWH, the Illuminating Engineering Society (IES), or national electrical codes.
- **Pole Height and Spacing** – Typically 8-12 meters high, spaced 30-50 meters apart, depending on road type.
- **Light Intensity and Coverage** – Ensure adequate brightness (measured in lumens or lux) for safety and visibility.
- **Type of Light Source** – LED is preferred due to energy efficiency and longevity.

3. Electrical and Infrastructure Considerations

- **Power Source** – Ensure connection to the electrical grid or use standalone streetlights.
- **Wiring and Cabling** – Proper underground or overhead wiring installation following electrical codes.

4. Maintenance and Costs

- **Installation Cost** – Factor in materials, labor, and permits.
- **Operational Cost** – Consider energy consumption and maintenance expenses.
- **Regular Maintenance Plan** – Ensure periodic inspections for bulb replacements, wiring checks, and pole stability.


ENGR. ARJAY L. GUEVARRA

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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.]

District V Map

Quezon City

Legend

- Barangay Boundary
- Road
- Waterways

ELECTRICAL

EL-01	LOCATION MAP GENERAL NOTES SINGLE E POLE FORCE JAN INFLATOR WITH RACK SERVICE ENTRANCE CONDUIT IN U BOLT ROD AND CLAMP OF TANGS TYPICAL SERVICE ENTRANCE JAN-KA-BEYER NITRACAGE
EL-02	
EL-03	SCHEDULE OF LOADS
EL-04	SCHEDULE OF LOADS
EL-05	SCHEDULE OF LOADS
EL-06	STREET LIGHTS LAYOUT (BARANGAY FAIRVIEW)
EL-07	BLOW-UP 1 (BARANGAY FAIRVIEW)
EL-08	BLOW-UP 2 (BARANGAY FAIRVIEW)
EL-09	BLOW-UP 1 (BARANGAY FAIRVIEW)
EL-10	STREET LIGHTS LAYOUT (BARANGAY STA. AGUSTIN)
EL-11	STREET LIGHTS LAYOUT (BARANGAY STA. AGUSTIN)
EL-12	BLOW-UP 1 (BARANGAY STA. MONICA)
EL-13	BLOW-UP 2 (BARANGAY STA. MONICA)
EL-14	BLOW-UP (BARANGAY STA. MONICA)
EL-15	STREET LIGHTS LAYOUT (BARANGAY KALICATANGAN)
EL-16	BLOW-UP 1 (BARANGAY KALICATANGAN)
EL-17	BLOW-UP 2 (BARANGAY KALICATANGAN)
EL-18	BLOW-UP 3 (BARANGAY KALICATANGAN)
EL-19	TYPICAL ELEVATION OF CHIMNEY STREET LIGHTS (600 W) TYPICAL ELEVATION OF SERVICE ENTRANCE (600 W)
<h2 style="text-align: center;">STRUCTURAL</h2>	
ST-01	GENERAL NOTES COLUMN FOOTING DETAILS GROUND LEVEL 1000 DETAILS

1	LOCATION MAP
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NOT TO SCALE

SCALE 1:125M.



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PROJECT TITLE DETAILED ENGINEERING DESIGN PLAN

**PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN**

LOCATION BANWANGY FARMVIEW HTS. WILMICA, ERIE COUNTY AND SAN JOSE CITY
DISTRICT 5, THE 20TH CITY

LOCATION MAP

ENGR. ARJAY L. GUEVARRA
ELECTRICAL ENGINEER

PRG. NO.: 00001771

PTR NO 7725503
ISS NO DATE NA

3- JAN 17 1967

ENGR. FREDERICKA D. DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PREC 40 0079434

PTR. NO.: 712852
ISSUED DATE: JANUARY 19

APPROVED BY:

ATTY. MARK DALE DIAMOND P. PERRA
CITY ENGINEER

PRG NO	012400
VALID DATE	FE80

PTB, NO 7122455

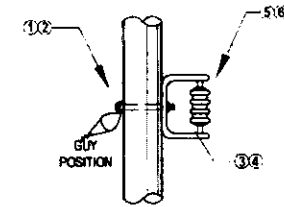
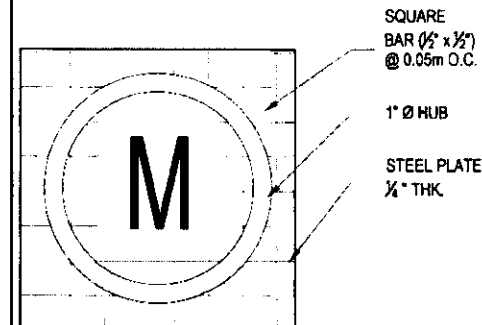
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1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEERS.
2. THE SERVICE ENTRANCE SHALL BE 220 VOLTS, SINGLE PHASE, 2-WIRES, 60 HZ IN RIGID STEEL CONDUIT (IMC).
3. THE MAIN AND BRANCH CIRCUIT OVER CURRENT PROTECTION SHALL BE OF MOLDED CASE CIRCUIT BREAKER TYPE "GE", "WESTINGHOUSE", OR APPROVED EQUAL ENCLOSED IN A METAL CABINET.
4. UNLESS SPECIFIED IN THE PLAN MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5mm (#12 AWG) AND 20mmØ (¾") RESPECTIVELY. ALL WIRES SHALL BE RATED 600 VOLTS WITH THHN INSULATION.
5. ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANELBOARDS, LIGHTING FIXTURES AND NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
6. ALL BRANCHES AND CIRCUIT SHALL NOT BE LOADED MORE THAN 80% OF RATED CAPACITY.



ITEM	DESCRIPTION	QNTY.
1	MACHINE BOLT, 180 x 350	1
2	SO. WASHER FOR 180 BOLT	2
3	SECONDARY RACK, 1- SPOOL	1
4	SPOOL INSULATOR, WHITE	1
5	TIE WIRE, FOR ALUMINUM	1
6	FLAT ALUMINUM ARMOR	1

1 GENERAL NOTES

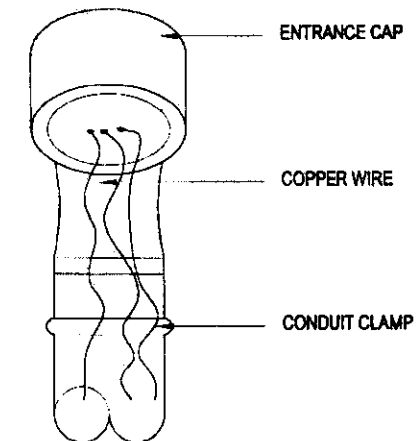
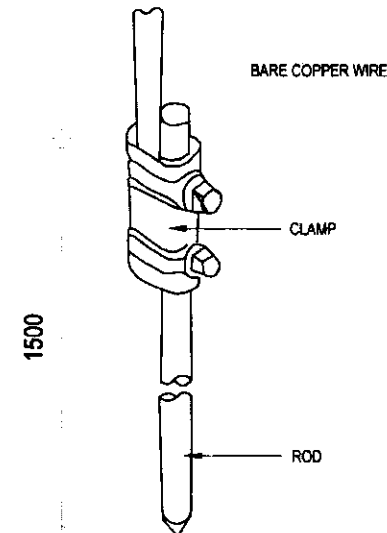
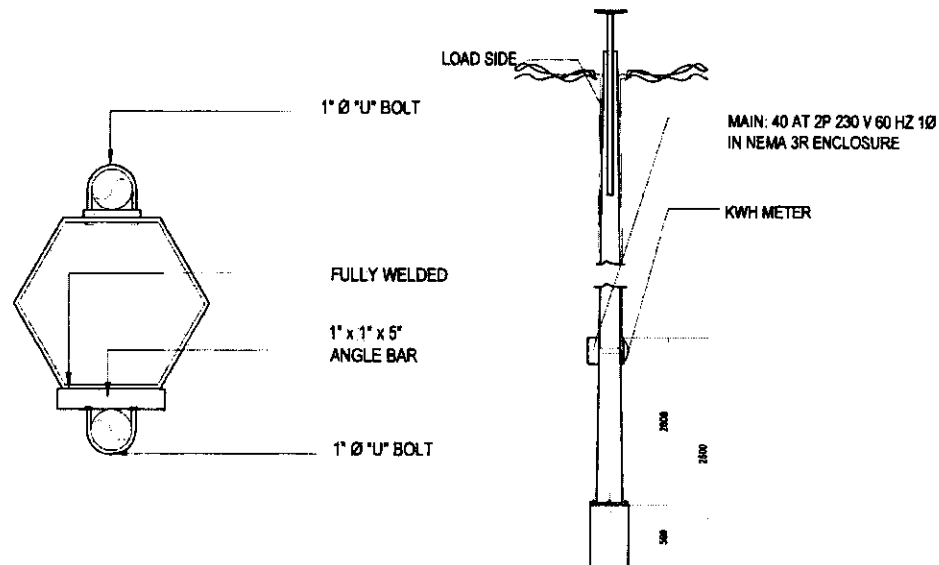
NOT TO SCALE

3 KWHOUR METER WITH CAGE (DETAIL "D")

NOT TO SCALE

5 SINGLE POLE PORCELAIN CAGE INSULATOR WITH RACK (DETAIL "C")

NOT TO SCALE



2 SERVICE ENTRANCE CONDUIT ON U-BOLT

NOT TO SCALE

4 ROD AND CLAMP DETAILS (DETAIL "E")

NOT TO SCALE

6 TYPICAL SERVICE ENTRANCE (DETAIL "F")

NOT TO SCALE



Republic of the Philippines
Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
Quezon City
Office: Quezon City
Telephone: 481-1888, 4842
E-mail: deo@deop.gov.ph

PROJECT TITLE: DETAILED ENGINEERING DESIGN PLAN
PROPOSED INSTALLATION OF STREETLIGHTS IN BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN AND BARANGAY SAN AGUSTIN

LOCATION: BARANGAY FAIRVIEW, STA. MONICA, KALIGAYAHAN AND SAN AGUSTIN, QUEZON CITY

PROJECT NOTES:
SINGLE POLE PORCELAIN INSULATOR WITH RACK
SERVICE ENTRANCE ROD AND CLAMP DETAILS
CONDUIT 1/2\"/>

DESIGNED BY:
ENGR. ARJAY C. GUEVARRA
ELECTRICAL ENGINEER

PEC NO. 000001
VALID DATE: NOVEMBER 11, 2020

DESIGNED BY:
ENGR. ARJAY C. GUEVARRA
ELECTRICAL ENGINEER

PEC NO. 000001
VALID DATE: NOVEMBER 11, 2020

DESIGNED BY:
ENGR. FREDERICK P. DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PEC NO. 000001
VALID DATE: NOVEMBER 11, 2020

APPROVED BY:
ATTY. MARK DALE DIAMOND P. PERRAL
CITY ENGINEER

PEC NO. 000001
VALID DATE: NOVEMBER 11, 2020

SHEET NO.: **EL-02**
02/19
SHEET NO.: **02**
20



Department of Engineering
University of the Philippines - Diliman
College of Engineering
Civil Engineering Division
Barangay Fairview Station
Barangay Fairview, Quezon City

PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALUGAYAN AND
BARANGAY SAN AGUSTIN

SCHEDULE OF
LOADS

ENGR. ARNOLD C. CUEVARRA
ELECTRICAL ENGINEER

ENGR. FREDERICK D. DE GUZMAN
CHIEF PLANNING AND DESIGN DIVISION

ATTY. MARK DAVID P. PERALTA
CIVIL ENGINEER

EL-03
03/19

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PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 1												
Main: 40AT, 50AF, 2P 10KAIC, 240V, Bolt-on in NEMA 3R												
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		
		L.O	C.O				AT	P	AF	L	G	CONDUITS CODE
1	220	3			1.02	225	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR F14
2	220			SPARE	-	-	30	2	50	-	-	-
TOTAL					1.02	225						

I_T = 1.02 Ampere

Feeder Line:

Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

NOTE: 14mm² Triplex ASCR

PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 2												
Main: 40AT, 50AF, 2P 10KAIC, 240V, Bolt-on in NEMA 3R												
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		
		L.O	C.O				AT	P	AF	L	G	CONDUITS CODE
1	220	6			2.05	450	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR F14
2	220			SPARE	-	-	30	2	50	-	-	-
TOTAL					2.05	450						

I_T = 2.05 Ampere

Feeder Line:

Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 3												
Main: 40AT, 50AF, 2P 10KAIC, 240V, Bolt-on in NEMA 3R												
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		
		L.O	C.O				AT	P	AF	L	G	CONDUITS CODE
1	220	5			1.70	375	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR F14
2	220			SPARE	-	-	30	2	50	-	-	-
TOTAL					1.70	375						

I_T = 1.7 Ampere

Feeder Line:

Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 4												
Main: 40AT, 50AF, 2P 10KAIC, 240V, Bolt-on in NEMA 3R												
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		
		L.O	C.O				AT	P	AF	L	G	CONDUITS CODE
1	220	7			2.39	525	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR F14
2	220			SPARE	-	-	30	2	50	-	-	-
TOTAL					2.39	525						

I_T = 2.39 Ampere

Feeder Line:

Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 5												
Main: 40AT, 50AF, 2P 10KAIC, 240V, Bolt-on in NEMA 3R												
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		
		L.O	C.O				AT	P	AF	L	G	CONDUITS CODE
1	220	7			2.39	525	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR F14
2	220			SPARE	-	-	30	2	50	-	-	-
TOTAL					2.39	525						

I_T = 2.39 Ampere

Feeder Line:

Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 6												
Main: 40AT, 50AF, 2P 10KAIC, 240V, Bolt-on in NEMA 3R												
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		
		L.O	C.O				AT	P	AF	L	G	CONDUITS CODE
1	220	10			3.41	750	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR F14
2	220			SPARE	-	-	30	2	50	-	-	-
TOTAL					3.41	750						

I_T = 3.41 Ampere

Feeder Line:

Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 7												
Main: 40AT, 50AF, 2P 10KAIC, 240V, Bolt-on in NEMA 3R												
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		
		L.O	C.O				AT	P	AF	L	G	CONDUITS CODE
1	220	9			3.07	675	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR F14
2	220			SPARE	-	-	30	2	50	-	-	-
TOTAL					3.07	675						

I_T = 3.07 Ampere

Feeder Line:

Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

1 SCHEDULE OF LOADS

NOT TO SCALE

DED2025_0038



Republic of the Philippines
Department of Engineering
Office of the Director
Engineering Division
1000, Manila, Philippines

PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALICAYAHAM AND
BARANGAY SAN AGUSTIN

SCHEDULE OF
LOADS

ENGR. ALBERT S. SORIANO
ELECTRICAL ENGINEER
P.E. No. 172289

ENGR. FREDERICK S. SORIANO
CHIEF PLANNING AND DESIGN DIVISION
P.E. No. 172289

ATTY. MARK DANIEL D. PERALTA
COUNSEL
P.E. No. 172289

EL-04
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PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 8													
Main: 40AT, 50AF, 2P													
10KAIC, 240V, Bolt-on in NEMA 3R													
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		L.O.	C.O.				AT	P	AF	L	G	CONDUITS	CODE
1	220	5			1.70	375	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					1.70	375							

$I_L = 1.7$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm ϕ IMC / X14

PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 9													
Main: 40AT, 50AF, 2P													
10KAIC, 240V, Bolt-on in NEMA 3R													
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		L.O.	C.O.				AT	P	AF	L	G	CONDUITS	CODE
1	220	3			1.02	225	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					1.02	225							

$I_L = 1.02$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm ϕ IMC / X14

PANEL: BARANGAY FAIRVIEW - SERVICE ENTRANCE 10													
Main: 40AT, 50AF, 2P													
10KAIC, 240V, Bolt-on in NEMA 3R													
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		L.O.	C.O.				AT	P	AF	L	G	CONDUITS	CODE
1	220	8			2.73	600	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					2.73	600							

$I_L = 2.73$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm ϕ IMC / X14

PANEL: BARANGAY SAN AGUSTIN - SERVICE ENTRANCE 1													
Main: 40AT, 50AF, 2P													
10KAIC, 240V, Bolt-on in NEMA 3R													
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		L.O.	C.O.				AT	P	AF	L	G	CONDUITS	CODE
1	220	2			0.68	150	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					0.68	150							

$I_L = 0.68$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm ϕ IMC / X14

NOTE: 14mm² Triplex ASCR

PANEL: BARANGAY SANTA MONICA - SERVICE ENTRANCE 1													
Main: 40AT, 50AF, 2P													
10KAIC, 240V, Bolt-on in NEMA 3R													
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		L.O.	C.O.				AT	P	AF	L	G	CONDUITS	CODE
1	220	3			1.02	225	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					1.02	225							

$I_L = 1.02$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm ϕ IMC / X14

PANEL: BARANGAY SANTA MONICA - SERVICE ENTRANCE 2													
Main: 40AT, 50AF, 2P													
10KAIC, 240V, Bolt-on in NEMA 3R													
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		L.O.	C.O.				AT	P	AF	L	G	CONDUITS	CODE
1	220	5			1.70	375	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					1.70	375							

$I_L = 1.7$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm ϕ IMC / X14

PANEL: BARANGAY SANTA MONICA - SERVICE ENTRANCE 3													
Main: 40AT, 50AF, 2P													
10KAIC, 240V, Bolt-on in NEMA 3R													
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		L.O.	C.O.				AT	P	AF	L	G	CONDUITS	CODE
1	220	3			1.02	225	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					1.02	225							

$I_L = 1.02$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm ϕ IMC / X14

1 SCHEDULE OF LOADS

NOT TO SCALE

DED2025_0038



PROPOSED INSTALLATION OF STREETLIGHT
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALAGAYAHAN AND
BARANGAY SAN AGUSTIN

SCHEDULE OF LOADS

ENGR. ARJAY C. GUISARRA
ELECTRICAL ENGINEER

ENGR. FREDERICK A. BEQUITH
CHIEF, PLANNING AND DESIGN DIVISION

ATTY. MARK DALE DIAMOND P. PERRY
CITY ENGINEER

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PANEL:		BARANGAY SANTA MONICA - SERVICE ENTRANCE 4											
Main:		40AT, 50AF, 2P											
		10KAIC, 240V, Bolt-on in NEMA 3R											
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		L.O.	C.O.				AT	P	AF	L	G	CONDUITS	CODE
1	220	6			2.05	450	30	2	50	2-14mm² ASCR	1-14mm² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50	-	-	-	
TOTAL					2.05	450							

$I_1 = 2.05$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / x14

PANEL:		BARANGAY SANTA MONICA - SERVICE ENTRANCE 5											
Main:		40AT, 50AF, 2P											
		10KAIC, 240V, Bolt-on In NEMA 3R											
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		CONDUITS	CODE
		L	C				A	P	AF	L	G		
1	220	5			1.70	375	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE		-	30	2	50				
TOTAL					1.70	375							

I_{sc} 1.7 Ampere
Feeder Line:
 Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL:		BARANGAY SANTA MONICA - SERVICE ENTRANCE 6											
Main:		40AT, 50AF, 2P											
		10KAIC, 240V, Bolt-on In NEMA 3R											
CKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		LG	CO				AT	P	AF	L	G	CONDUITS	CODE
1	220	7			2.39	525	30	2	50	2-14mm² ASCR	1-14mm² ASCR	FREE AIR	F14
2	220			SPARE		-	30	2	50	-	-	-	-
TOTAL					2.39	525							

Feeder Line: Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL: BARANGAY SANTA MONICA - SERVICE ENTRANCE 7													
Main: 40AT, SDAF, 2P													
10KAIC, 240V, Bolt-on in NEMA 3R													
OKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		LO	CO				AT	P	AF	L	G	CONDUITS	CODE
1	220	3			1.02	225	30	2	50	2-14mm² ASCR	1-14mm² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					1.02	225							

$I_1 = 1.02$ Ampere
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL:		BARANGAY KALIGAYAHAN - SERVICE ENTRANCE 1											
Main:		40AT, 50AF, 2P											
		10KAC, 240V, Bolt-on in NEMA 3R											
CCT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF			
		LO	CO				AT	P	AF	L	G	CONDUTS	CODE
1	220	7			2.39	525	30	2	50	2-14mm ² ASCR	1-14mm ² ASCR	FREE AIR	F14
2	220			SPARE	-	-	30	2	50	-	-	-	-
TOTAL					2.39	525							

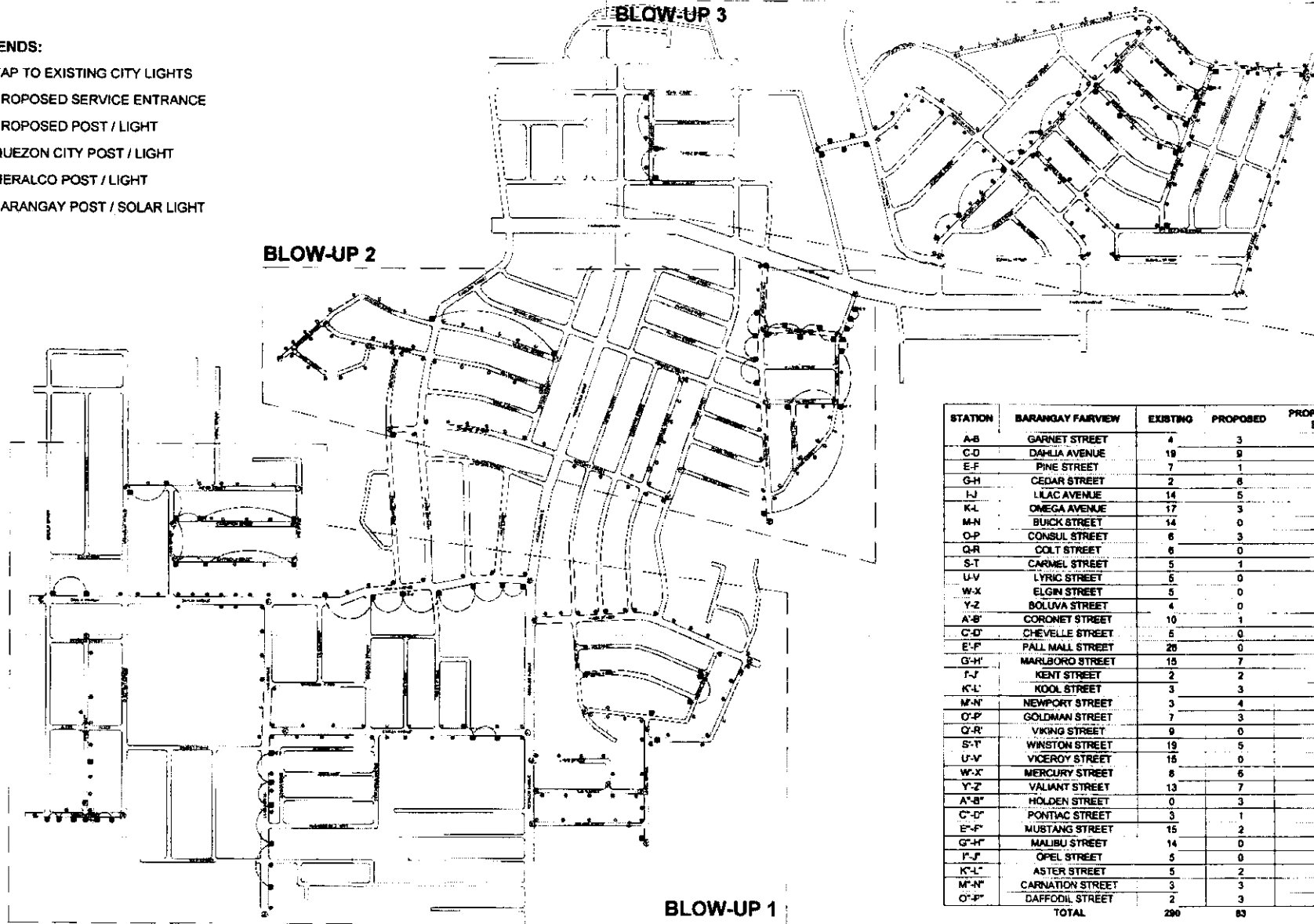
$I_T = 2.39$ Amperes
Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

PANEL:		BARANGAY KALIGAYAHAN - SERVICE ENTRANCE 2											
Main:		40AT, 50AF, 2P											
		10KAIC, 240V, Bolt-on in NEMA 3R											
OKT. NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD	VA	CIRCUIT BREAKER			SIZE OF		CONDUITS	CODE
		L.O	C.Q				AT	P	AF	L	G		
1	220	5			1.70	375	30	2	50	2-14mm² ASCR	1-14mm² ASCR	FREE AIR	F14
2	220			SPARE			30	2	50				
TOTAL					1.70	375							

Feeder Line:
Use: 2-14mm² THHN + 1-8.0mm² THW (G) in 25mm Ø IMC / X14

LEGENDS:

- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓢ BARANGAY POST / SOLAR LIGHT



1 STREET LIGHTS LAYOUT (BARANGAY FAIRVIEW)

NOT TO SCALE



Republika ng Pilipinas
Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
Civil Control Building 5, City Hall Compound, Quezon City
Phone: (02) 8088-6542
E-mail address: engring@quezoncity.gov.ph

PROJECT TITLE: DETAILED ENGINEERING DESIGN PLAN

PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN

LOCATION: BARANGAY FAIRVIEW, STA. MONICA, KALIGAYAHAN AND SAN AGUSTIN
DISTRICT 9, QUEZON CITY

SHEET NO. 01/01

STREET LIGHTS
LAYOUT
(BARANGAY
FAIRVIEW)

DESIGNER

ENGR. ARJAY L. GUYARRA
ELECTRICAL ENGINEER

PRC NO. 208371
VALID DATE: NOVEMBER 11, 2025

PRC NO. 710566
VALID DATE: JANUARY 12, 2025

SUBMITTED BY

ENGR. FREDSWINDA DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PRC NO. 007648
VALID DATE: MARCH 26, 2021

APPROVED BY

ATTY. MARK DALE DIAMOND P. PERRAL
CITY ENGINEER

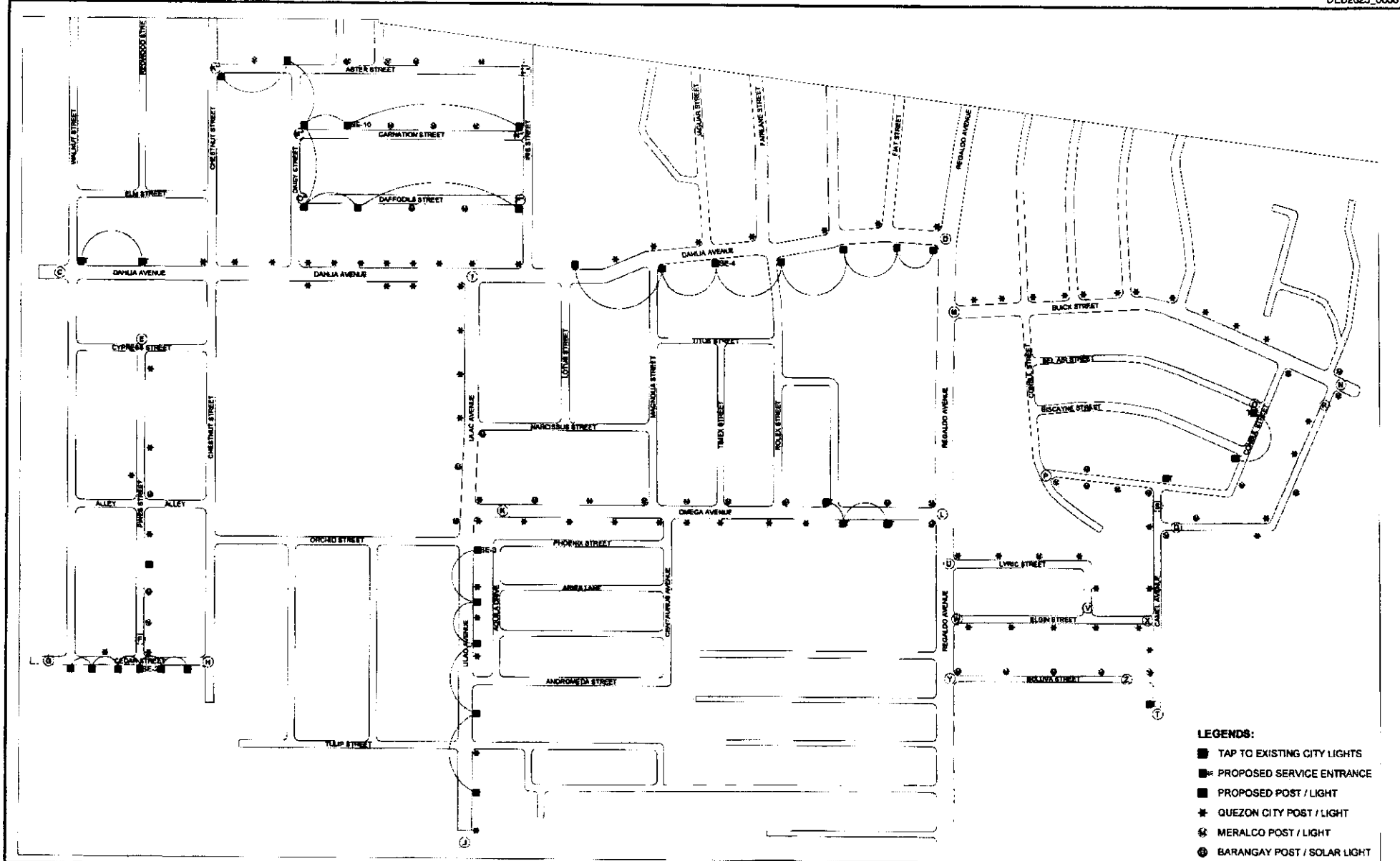
PRC NO. 010892
VALID DATE: FEBRUARY 24, 2025

SHEET NO.

EL-06
06/19

SHEET NO.

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1 BLOW-UP 1 (BARANGAY FAIRVIEW)

NOT TO SCALE



Republika ng Pilipinas
Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
C-4 Corner Building B, City Hall Compound, 5th Floor Road
Diliman - Corral 1700 Quezon City
Tel. 940-1111, 940-1111 (24)
E-mail address: engineering@quezoncity.gov.ph

PROJECT TITLE: DETAILED ENGINEERING DESIGN PLAN

**PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN**

LOCATION BARANGAY FOURMFW, 11A MONICA BALICAYAN AND SAN AGUSTIN
DISTRICT 5, QUEZON CITY

SHEET CONTENT

DESIGNED BY

BLOW-UP 1
(BARANGAY
FAIRVIEW)

ENGR. ARJAY G. GUEVARRA
ELECTRICAL ENGINEER

PAC. NO. 2008771

PTR. NO.: 7125500.

3.501150 IN

ENGR. FREDERICO L. DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PROC. NO. 00784

FTR NO 7120002

ADDRESS ONLY

ATTY. MARK DALE ~~DAVID~~ P. PERRA
CITY ENGINEER

PAC NO. 210509

REF NO. 1:20915

[illegible]

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07 19	20





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**LEGENDS:**

- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓢ BARANGAY POST / SOLAR LIGHT

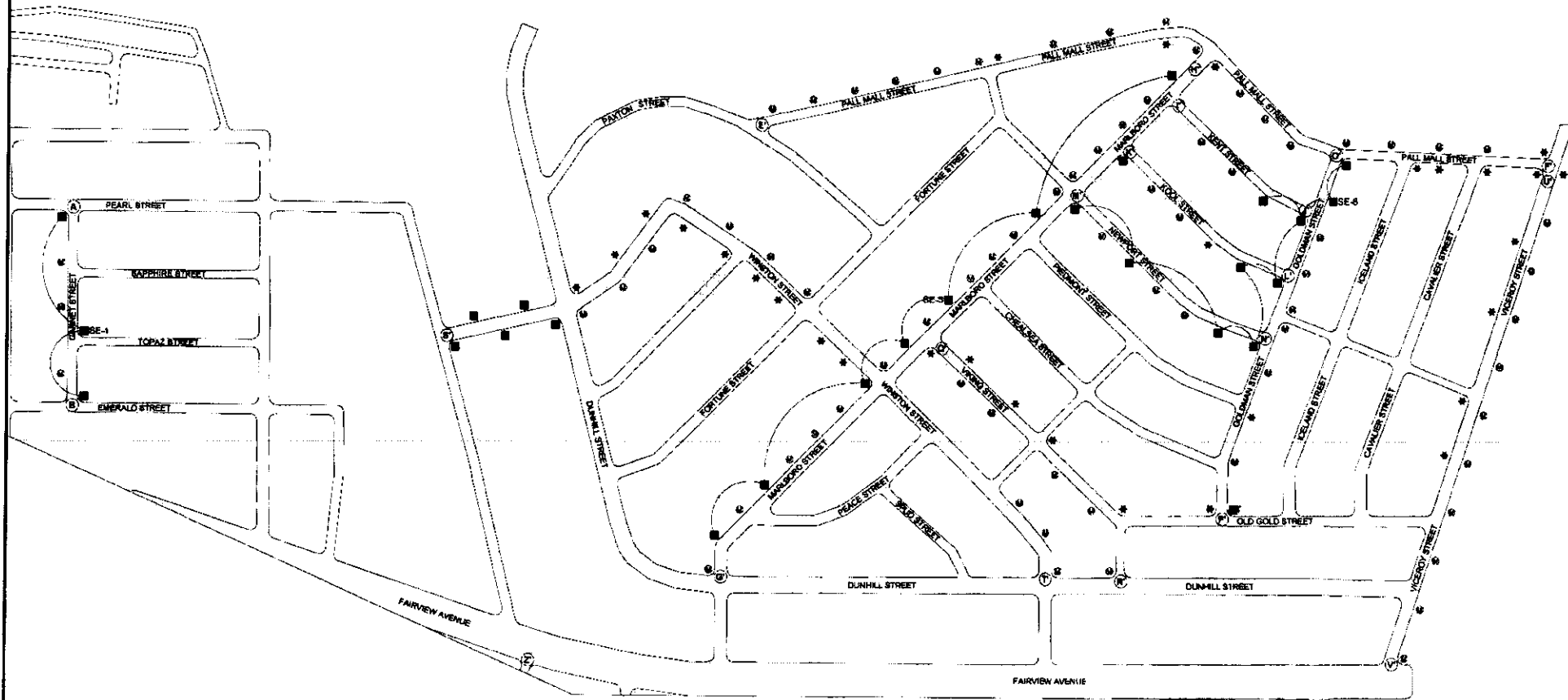
1 BLOW-UP 2 (BARANGAY FAIRVIEW)

NOT TO SCALE

 <p>Republic of the Philippines Lungsod ng Quezon DEPARTMENT OF ENGINEERING City Center Building 3, 2nd and 3rd Floors Dasmariñas, Quezon City Telephone: (02) 1-888-0100 E-mail address: engineering@quezoncity.gov.ph</p>	PROJECT TITLE: DETAILED ENGINEERING DESIGN PLAN	SHEET CONTENT:	DESIGNED BY:	DRAWN BY:	APPROVED BY:	SHEET NO.:	SHEET NO.	
	PROPOSED INSTALLATION OF STREETLIGHTS IN BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN AND BARANGAY SAN AGUSTIN	BLOW-UP 2 (BARANGAY FAIRVIEW)	 ENGR. ARJAYA GUEVARRA ELECTRICAL ENGINEER	 ENGR. FREDRICK DE GUZMAN CHIEF, PLANNING AND DESIGN DIVISION	 ATTY. MARK DALE CANINO P. FERRAL CITY ENGINEER	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">EL-08</div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-top: 5px;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">08</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">19</div> </div>	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">08</div> <div style="display: flex; align-items: center; justify-content: center; margin-top: 5px;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">08</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">20</div> </div>	
			PROJECT NO. D2025-0038	PROJECT NO. D2025-0038	PROJECT NO. D2025-0038	PROJECT NO. D2025-0038	PROJECT NO. D2025-0038	PROJECT NO. D2025-0038
			LOCATION: BARANGAY FAIRVIEW, STA. MONICA, KALIGAYAHAN AND SAN AGUSTIN, DISTRICT 1, QUEZON CITY	VALID DATE: NOVEMBER 11, 2024	VALID DATE: NOVEMBER 11, 2024	VALID DATE: NOVEMBER 11, 2024	VALID DATE: NOVEMBER 11, 2024	VALID DATE: NOVEMBER 11, 2024

LEGENDS:

- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- * QUEZON CITY POST / LIGHT
- ⊗ MERALCO POST / LIGHT
- ⊙ BARANGAY POST / SOLAR LIGHT



1 BLOW-UP 3 (BARANGAY FAIRVIEW)

NOT TO SCALE



Republic of the Philippines
 Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
 Quezon City Building, 8 City Hall Compound, Division Road
 Quezon, Quezon City 1100
 Telephone: (02) 2808 6542
 E-mail: deeng@quezoncity.gov.ph

PROJECT TITLE: DETAILED ENGINEERING DESIGN PLAN

**PROPOSED INSTALLATION OF STREETLIGHTS
 IN BARANGAY FAIRVIEW, BARANGAY STA.
 MONICA, BARANGAY KALIGAYAHAN AND
 BARANGAY SAN AGUSTIN**

LOCATION: BARANGAY FAIRVIEW, R.A. MONICA, KALIGAYAHAN AND SAN AGUSTIN
 DISTRICT 2, QUEZON CITY

SHEET COMMENT

BLOW-UP 3
 (BARANGAY
 FAIRVIEW)

DESIGNED BY

ENGR. ARJAY L. GUEYARRA
 ELECTRICAL ENGINEER

PRC NO. 028071
 VALID DATE: NOVEMBER 11, 2018

PTR NO. 712662
 ISSUED DATE: JANUARY 11, 2025

SUBMITTED BY

ENGR. FREDERICK DE GUZMAN
 CHIEF, PLANNING AND DESIGN DIVISION

PRC NO. 027946
 VALID DATE: MARCH 29, 2021

PTR NO. 712653
 ISSUED DATE: JANUARY 10, 2025

APPROVED BY

ATTY. MARK DALE DIAMOND P. PERRAL
 CITY ENGINEER

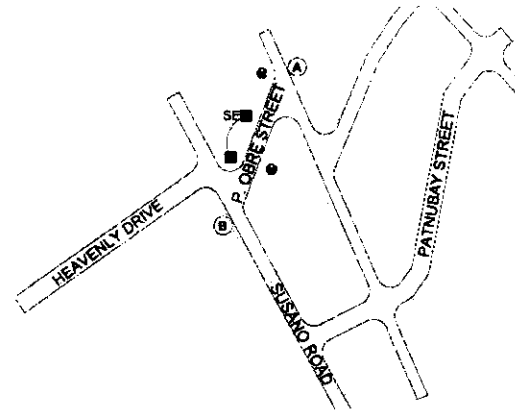
PRC NO. 030662
 VALID DATE: FEBRUARY 24, 2020

PTR NO. 713625
 ISSUED DATE: JANUARY 15, 2025

SHEET NO.
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LEGENDS:

- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓢ BARANGAY POST / SOLAR LIGHT



STATION	BARANGAY SAN AGUSTIN	EXISTING	PROPOSED	PROPOSED SERVICE ENTRANCE
A-B	P. POBRE STREET	2	2	1
	TOTAL	2	2	1

1 STREET LIGHTS LAYOUT (BARANGAY SAN AGUSTIN)

NOT TO SCALE



Republika ng Pilipinas
Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
Civil Center Building 8, City Hall Compound, 1105 Quezon City
Quezon City 1105, Quezon City
Telephone: +63 2 8098 0242
E-mail address: engineering@quezoncity.gov.ph

PROJECT FILE: DETAILED ENGINEERING DESIGN PLAN

**PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN**

LOCATION: BARANGAY FAIRVIEW, STA MONICA, KALIGAYAHAN AND SAN AGUSTIN
DISTRICT 3, QUEZON CITY

DESIGN CODE:

STREET LIGHTS
LAYOUT
(BARANGAY SAN
AGUSTIN)

DESIGNED BY:

ENGR. ARJAY L. GUBARRA
ELECTRICAL ENGINEER

PRC NO. 508571
VALID DATE: NOVEMBER 11, 2020

CHECKED BY:

PTF NO. 719540
ISSUED DATE: JANUARY 10, 2021

SUBMITTED BY:

ENGR. FREDERICK A. GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PRC NO. 508458
VALID DATE: MARCH 28, 2021

APPROVED BY:

ATTY. MARK DALE DIAMOND P. PERRAL
CITY ENGINEER

PRC NO. 519840
ISSUED DATE: JANUARY 13, 2021

SET NO.

EL-10
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SHEET NO.

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PRC NO. 519840
ISSUED DATE: JANUARY 24, 2021

PRC NO. 7128903
ISSUED DATE: JANUARY 15, 2021



Republic of the Philippines
Department of Engineering
Luzon Region Office
Cebu City Office
Cebu City Office
Cebu City Office

PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALICAYANAN AND
BARANGAY SAN AGUSTIN

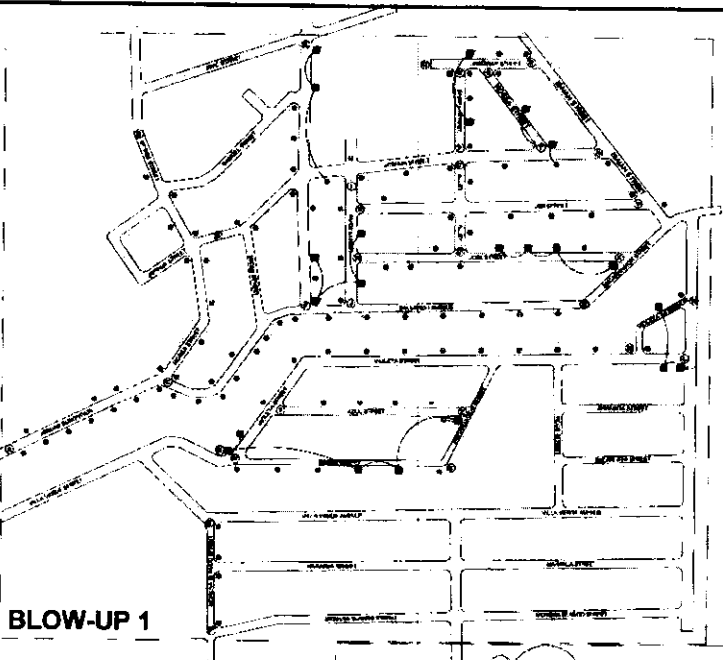
STREET LIGHTS
(BARANGAY STA.
MONICA)

ENGR. ARLEY B. BAYARBA
ELECTRICAL ENGINEER

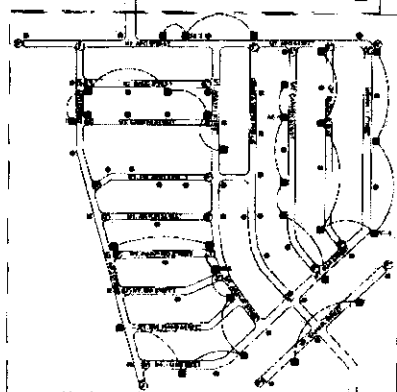
ENGR. FREDERICK B. GIZAWAY
CIVIL, PLANNING AND DESIGN DIVISION

ATTY. MARK DANIEL PERALTA
CITY ENGINEER

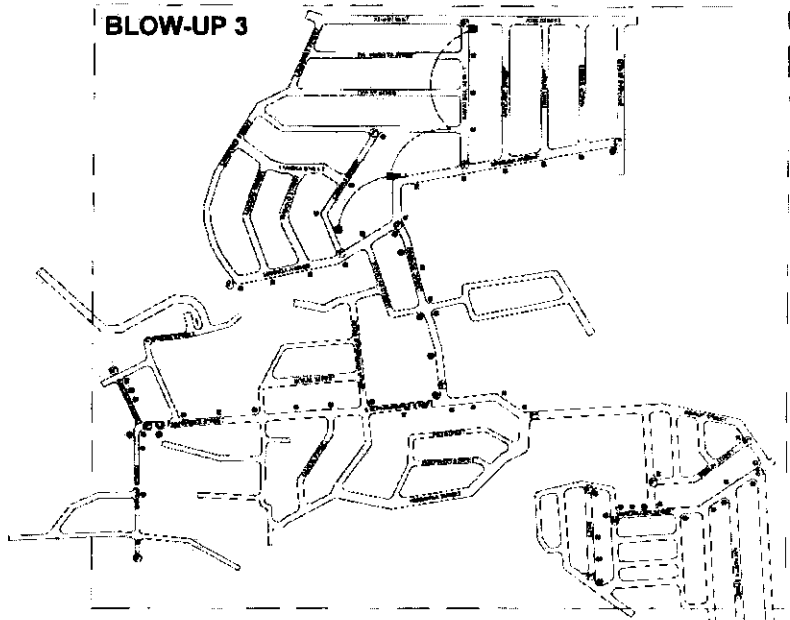
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BLOW-UP 1



BLOW-UP 2



BLOW-UP 3

LEGENDS:

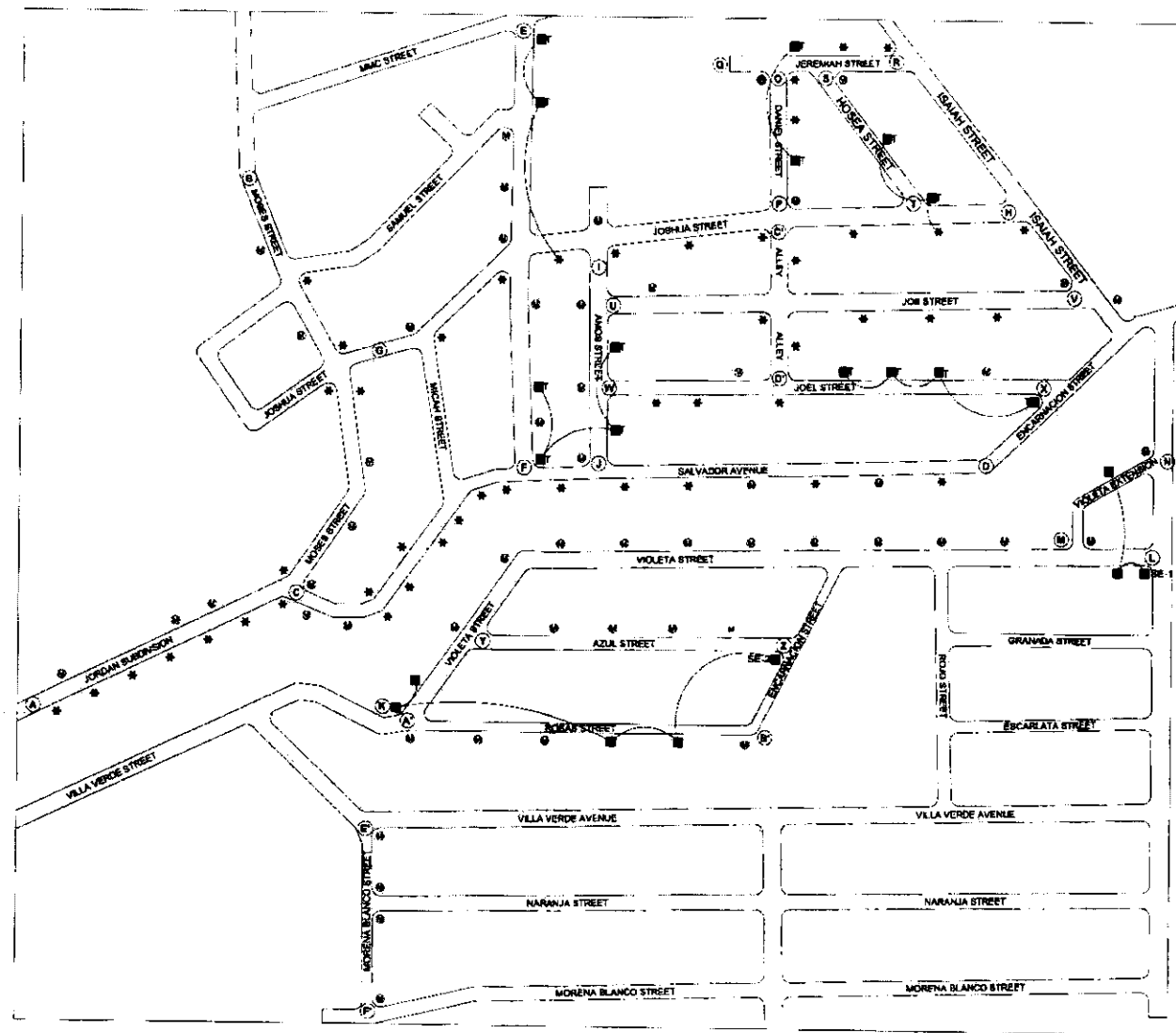
- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓢ BARANGAY POST / SOLAR LIGHT

STATION	BARANGAY STA. MONICA	EXISTING	PROPOSED	PROPOSED SERVICE ENTRANCE
A-B	MOSES STREET	20	0	0
C-D	SALVADOR AVENUE	17	0	0
E-F	NOVEMAH STREET	5	4	0
G-H	JOSHUA STREET	11	1	0
I-J	ANCHA STREET	3	2	0
K-L	VIOLETA STREET	10	4	1
M-N	VIOLETA EXTENSION	1	1	0
O-P	DANIEL STREET	3	1	0
Q-R	JEREMIAH STREET	3	1	0
S-T	HOSEA STREET	0	1	0
U-V	JOB STREET	7	0	0
W-X	JOEL STREET	5	4	0
Y-Z	AZLA STREET	4	1	1
A'-B'	ROBAR STREET	4	2	0
C'-D'	ALLEY	2	0	0
E'-F'	BLANCO STREET	4	0	0
G'-H'	MT. APO STREET	5	4	1
I'-J'	MT. APO STREET	5	3	0
K'-L'	MT. BAGO STREET	1	2	0
M'-N'	MT. CRESTA STREET	3	1	0
O'-P'	MT. EVEREST STREET	4	0	0
Q'-R'	MT. MAYON STREET	1	0	0
S'-T'	MT. PINATUBO STREET	1	0	0
U'-V'	MT. ISA STREET	1	0	0
W'-X'	MT. FIJI STREET	6	6	1
Y'-Z'	CRESTA VERDE STREET	5	0	0
A''-B''	MT. CARMELO STREET	2	4	1
C''-D''	MT. EL GON STREET	2	2	0
E''-F''	MT. SALAMA STREET	3	2	0
G''-H''	KAMATILE STREET	3	1	1
I''-J''	CAMITO STREET	3	1	0
K''-L''	MANGA STREET	12	1	0
M''-N''	DAPODAP STREET	8	0	0
O''-P''	E.G. FERNANDEZ STREET	13	0	0
Q''-R''	ORANGE STREET	7	0	0
S''-T''	ALLEY	4	0	0
U''-V''	BERLIN STREET	2	0	0
W''-X''	VANCOUVER STREET	11	0	0
Y''-Z''	MT. ARAYAT STREET	4	4	1
TOTAL		205	53	7

1 STREET LIGHTS LAYOUT (BARANGAY STA. MONICA)

NOT TO SCALE

DED2025.0038



LEGENDS:

- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓟ BARANGAY POST / SOLAR LIGHT

1	BLOW-UP 1 (BARANGAY STA. MONICA)
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Republika ng Pilipinas
 Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
 Civic Center Building 15, City Hall Compound, Division Road
 Division Office - Ceres 1100 Quezon City
 Telephone - 432 2 0000/4242
 E-mail address: engr@engr.doe.gov.ph

PROJECT TITLE DETAILED ENGINEERING DESIGN PLAN

**PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN**

LOCATION BARROERO FARMVIEW, STA MONICA, CALIFORNIA AND SAN JOSE
DISTRICT 5, QUEZON CITY

SHEET CONTENT	

DESIGN BY

ENGR. ARJAY L. GUEVARRA
ELECTRICAL ENGINEER

REC NO 0000771

PTR NO. F120000
ISSUED DATE JANUARY 19, 2025

DESIGN BY

ENGR. ARJAY L. GUEVARRA
ELECTRICAL ENGINEER

REC NO 0000771

PTR NO. F120000
ISSUED DATE JANUARY 19, 2025

SLOWED BY	
-----------	--

ENGR. FRED SWINDELL DE GUZMA
CHIEF PLANNING AND DESIGN DIVISION

PRC NO 25746

SLOWED BY	
-----------	--

ENGR. FRED SWINDELL DE GUZMA
CHIEF PLANNING AND DESIGN DIVISION

PRC NO 25746

APPROVED BY

ATTY. MARK DALE DIAMOND P. PERRALZ
CITY ENGINEER

[illegible]

APPROVED BY

ATTY. MARK DALE DIAMOND P. PERRALZ
CITY ENGINEER

[illegible]

NOT TO SCALE

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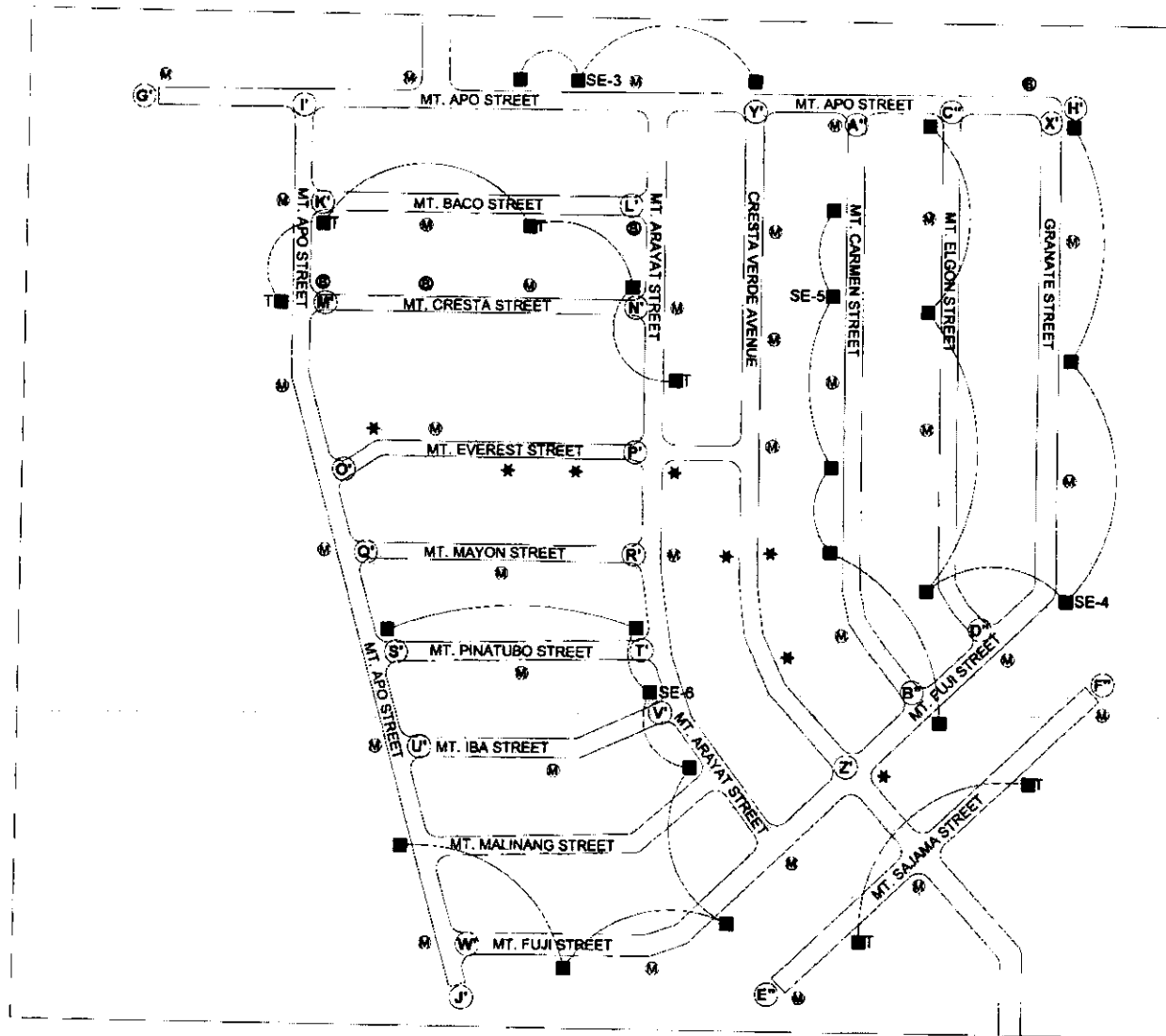
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LEGENDS:

- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓢ BARANGAY POST / SOLAR LIGHT

1 BLOW-UP 2 (BARANGAY STA. MONICA)



Republic of the Philippines
Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
City Center Building 3, City Hall Compound, Quezon City
Telephone: (02) 2599-1000 (City)
E-mail address: eng.offices@quezoncity.gov.ph

PROJECT TITLE: **WATER AND SANITATION ENGINEERING DESIGN PLAN**
**PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN**
LOCATION: BARANGAY FAIRVIEW, STA. MONICA, AN KAYAN AND SAN AGUSTIN
DISTRICT 2, QUEZON CITY

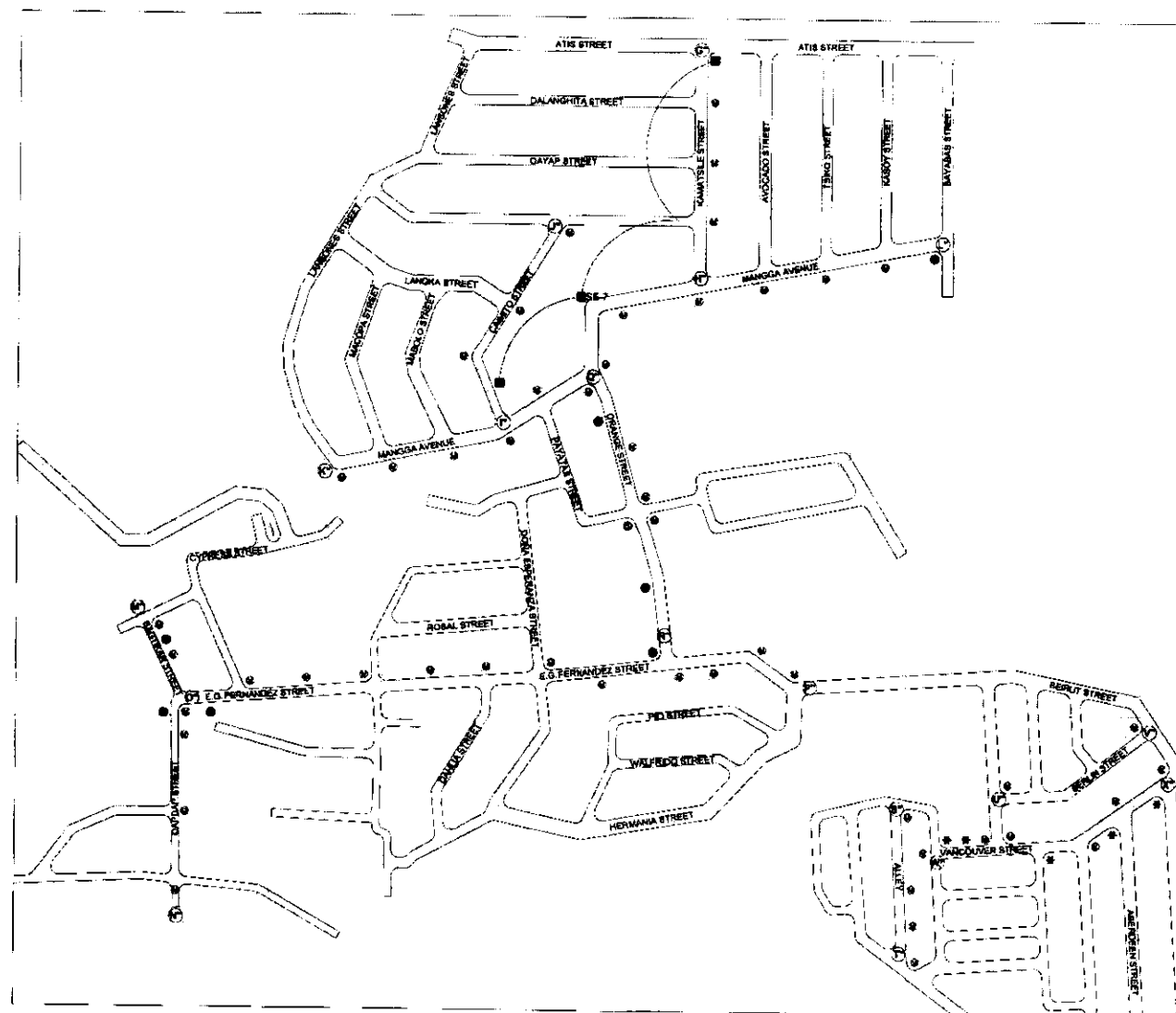
SHEET CONTENT:
**BLOW-UP 2
(BARANGAY STA.
MONICA)**

DESIGNED BY:
ENGR. ARJAY E. GUEVARRA
ELECTRICAL ENGINEER
PRC NO. 000271
VALID DATE: NOVEMBER 11, 2020

SUBMITTED BY:
ENGR. FREDYSONAL DE GUZMAN
CHIEF PLANNING AND DESIGN DIVISION
PRC NO. 007980
VALID DATE: MARCH 28, 2021

APPROVED BY:
ATTY. MARK DALE RAMIRO P. PERRAL
CITY ENGINEER
PRC NO. 013802
VALID DATE: FEBRUARY 24, 2024

NOT TO SCALE
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LEGENDS:

- TAP TO EXISTING CITY LIGHTS
- = PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓢ BARANGAY POST / SOLAR LIGHT

1	BLOW-UP 3 (BARANGAY STA. MONICA)
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NOT TO SCALE



Republic of the Philippines
 Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
 Civil Center Building 8 City Hall Compound, Alameda Road
 Dasmariñas, Central 1102 Quezon City
 Telephone: (02) 2 6960 4363
 e-mail: aed-ee@engr.upd.edu.ph; aed@up.edu.ph

PROJECT TITLE: DETAILED ENGINEERING DESIGN PLAN

**PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN**

LOCATION SARAGONY SURVIVED IN A MONICA AL. GAYNIN AND SAR AG. BENTIN
DISTRICT 5, CHICAGO CITY

SHEET CONTINUED

BLOW-UP 3
(BARANGAY STA.
MONICA)

THESE WOULD BE:

ENGR. ARJAY L. GUEVARRA
ELECTRICAL ENGINEER

PRR NO 2008771
VALID DATE: MON

SAFETY

ENGR. FRED SWANSON DE GUZMAN
CHIEF PLANNING AND DESIGN DIVISION

DATE	NO	STATION	TIME	DATE	NO	STATION	TIME
DATE	NO	STATION	TIME	DATE	NO	STATION	TIME

420001-01

ATTY. MARK DALE DIAMOND P. PERRAL

APAC HQ : 01000005

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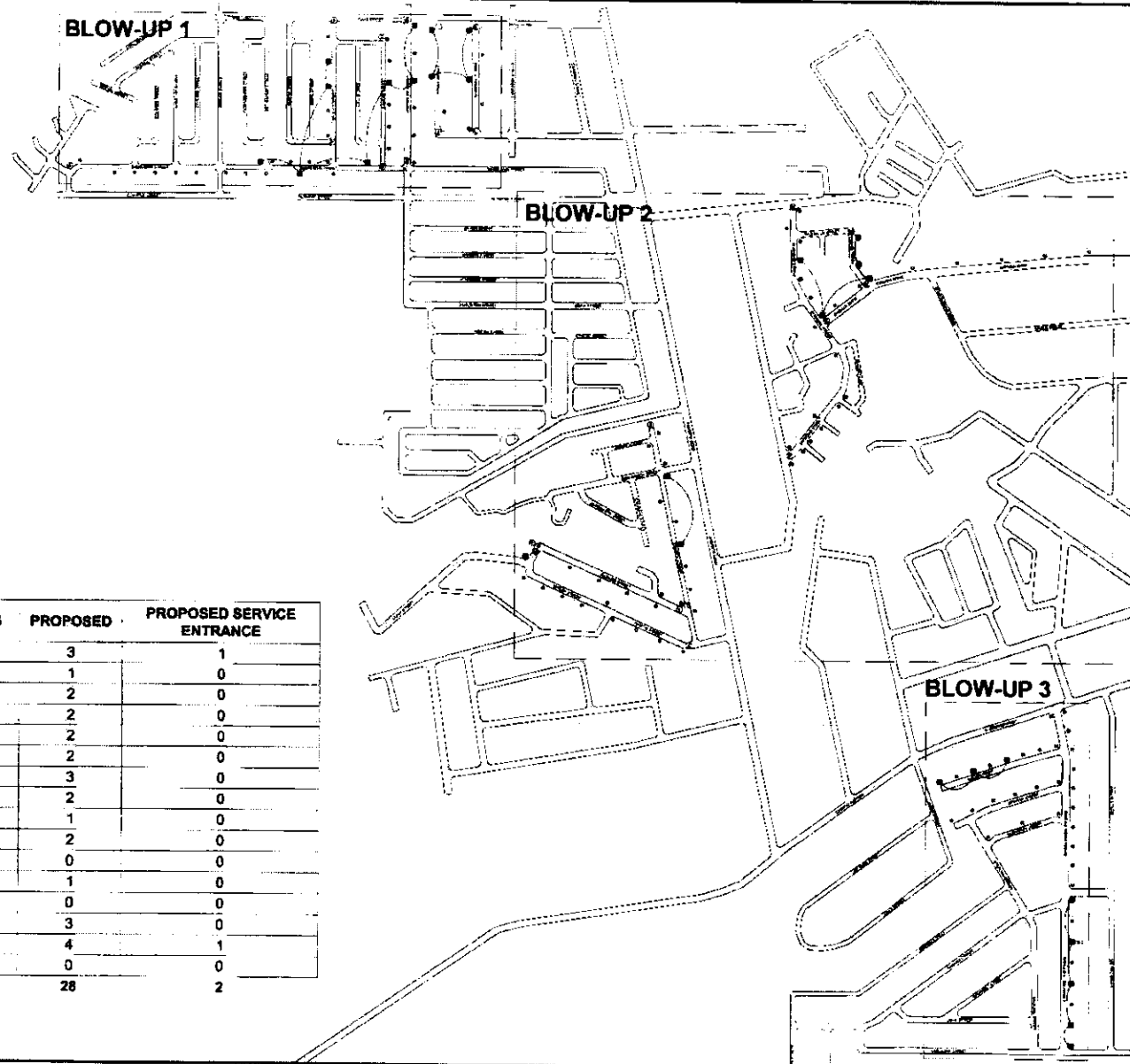
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LEGENDS:

- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- * QUEZON CITY POST / LIGHT
- ⊗ MERALCO POST / LIGHT
- ⊙ BARANGAY POST / SOLAR LIGHT

STATION	BARANGAY KALIGAYAHAN	EXISTING	PROPOSED	PROPOSED SERVICE ENTRANCE
A-B	MOSES STREET	14	3	1
C-D	SALVADOR AVENUE	5	1	0
E-F	NEHEMIAH STREET	3	2	0
G-H	JOSHUA STREET	6	2	0
I-J	AMOS STREET	1	2	0
K-L	VIOLETA STREET	3	2	0
M-N	VIOLETA EXTENSION	0	3	0
O-P	DANIEL STREET	15	2	0
Q-R	JEREMIAH STREET	10	1	0
S-T	HOSEA STREET	8	2	0
U-V	JOB STREET	7	0	0
W-X	JOEL STREET	8	1	0
Y-Z	AZUL STREET	3	0	0
A'-B'	ROSAS STREET	5	3	0
C'-D'	ALLEY	14	4	1
E'-F'	BLANCO STREET	8	0	0
TOTAL		108	28	2



1 STREET LIGHTS LAYOUT (BARANGAY KALIGAYAHAN)

NOT TO SCALE



Republic of the Philippines
 Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
 Civil Center Building 9, 2nd Hall Complex, 4th Floor Road
 Division Office - Quezon City
 Telephone: (02) 2599-0442
 E-mail: deeng@quezoncity.gov.ph

PROJECT TITLE: DETAILED ENGINEERING DESIGN PLAN

**PROPOSED INSTALLATION OF STREETLIGHTS
 IN BARANGAY FAIRVIEW, BARANGAY STA.
 MONICA, BARANGAY KALIGAYAHAN AND
 BARANGAY SAN AGUSTIN**

LOCATION: BARANGAY FAIRVIEW, STA. MONICA, KALIGAYAHAN AND SAN AGUSTIN, QUEZON CITY

SHEET CONTENT:

STREET LIGHTS
LAYOUT
(BARANGAY
KALIGAYAHAN)

DESIGNED BY:

ENGR. ARJAY L. GUEVARRA
 ELECTRICAL ENGINEER

PHE NO. 288771

VALID DATE: NOVEMBER 11, 2021

CHECKED BY:

PHE NO. 770980

ISSUED DATE: JANUARY 10, 2022

SUBMITTED BY:

ENGR. FREDISWINDA P. DE GUZMAN
 CHIEF, PLANNING AND DESIGN DIVISION

PHE NO. 607848

VALID DATE: MARCH 28, 2022

APPROVED BY:

ATTY. MARK DALE MANONDO P. PERRAL
 CITY ENGINEER

PHE NO. 610888

VALID DATE: FEBRUARY 24, 2022

SHEET NO.

EL-15
15 19

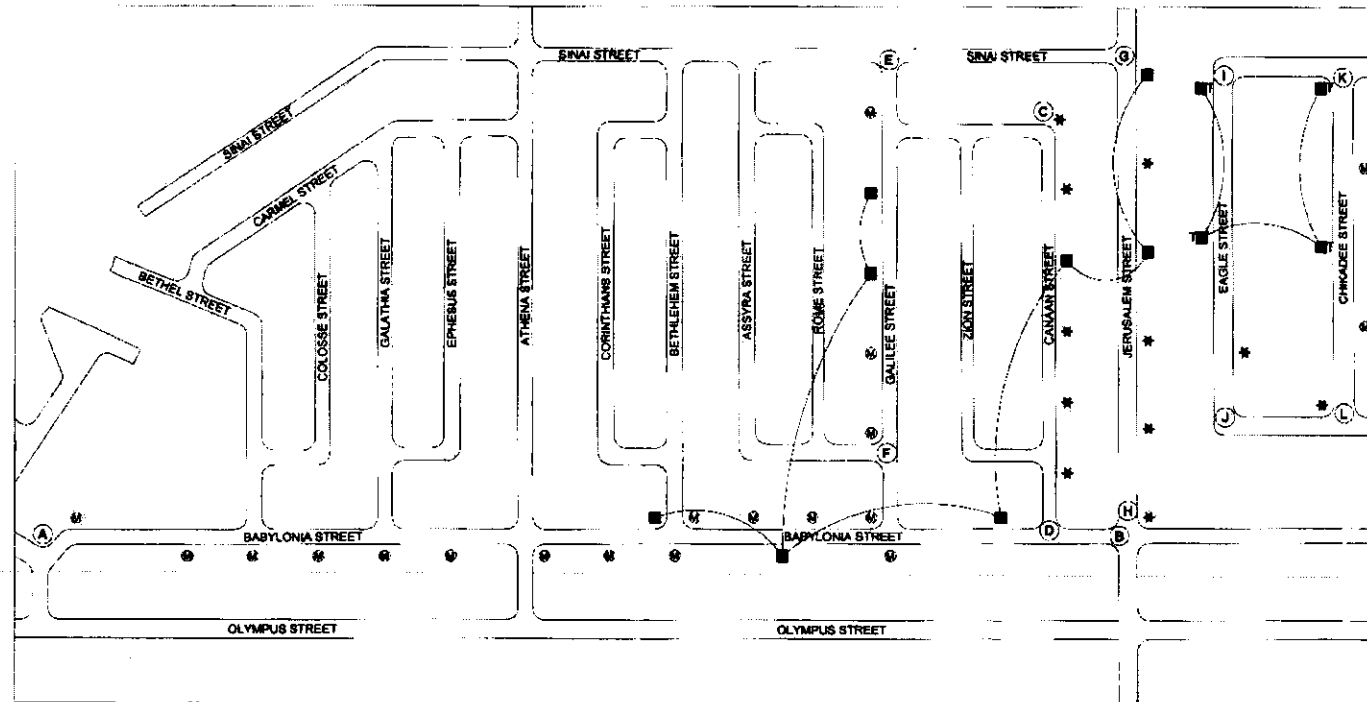
15
20

PHE NO. 770980

ISSUED DATE: JANUARY 10, 2022

LEGENDS:

- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓟ BARANGAY POST / SOLAR LIGHT



1 BLOW-UP 1 (BARANGAY KALIGAYAHAN)

SCALE 1:125M.



Republic of the Philippines
Lungsod ng Quezon City
DEPARTMENT OF ENGINEERING
Civil Control Building 2, City Hall Compound, 1100 Quezon Road
Quezon City 1100 Quezon City
Telephone: (02) 7266-8800
E-mail: deo@luc.gov.ph

PROJECT TITLE: DETAILED ENGINEERING DESIGN PLAN

PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN

LOCATION: BARANGAY FAIRVIEW, STA. MONICA, KALIGAYAHAN AND SAN AGUSTIN
ON PROJECT 3, QUEZON CITY

SHEET CONTENT:
BLOW-UP 1
(BARANGAY
KALIGAYAHAN)

DESIGNED BY:

ENGR. ARJAY L. OUSAYARRA
ELECTRICAL ENGINEER

PRC NO. 20871
VALID DATE: NOVEMBER 11, 2020

PRC NO. 12880
ISSUED DATE: JANUARY 10, 2021

DRAWN BY:

ENGR. FREDERICK R. DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PRC NO. 20768
VALID DATE: MARCH 28, 2021

PRC NO. 173982
ISSUED DATE: JANUARY 15, 2021

APPROVED BY:

ATTY. MARK DAVID P. PERRAL
CITY ENGINEER

PRC NO. 418882
VALID DATE: FEBRUARY 24, 2021

PRC NO. 12880
ISSUED DATE: JANUARY 15, 2021

SHEET NO.

EL-16
16 19

SHEET NO.

16
20



- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓢ BARANGAY POST / SOLAR LIGHT

1 | BLOW-UP 2 (BARANGAY KALIGAYAHAN)

SCALE 1:125M.



Republika ng Pilipinas
Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
Civil Center Building 8, City Hall Compound, Espana Road
Quezon, Cavite 1700 General Trias City
Telephone: +63 2 8888 4242
E-mail: eece_engg@quezon.edu.ph

**PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN**

LOCATION	BARANKAY I. MINTEW, STA. MONICA, MALABAYAN AND SAN AGUSTIN DISTRICT B. QUEZON CITY
----------	--

**BLOW-UP 2
(BARANGAY
KALIGAYAN)**

DESIGNED BY

ENGR. ARJAY L. GUEVARRA
ELECTRICAL ENGINEER

PRC NO: 0000771
VALID DATE: NOV 2000

FILE NO: 7125540
ISSUED DATE: JANUARY

SUBMITTED BY

ENGR. FRED SWINERDE DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PRC NO. 0078-88
VALG DATE MAR

PTR NO: 7120652
 ISSUE DATE: JANUARY 10, 20

ATTACHED BY:	
--------------	--

ATTY. MARK DALE DIAMOND P. PERRAL
CITY ENGINEER

PREC. NC @ 100000
VALUED DATE: PREC.

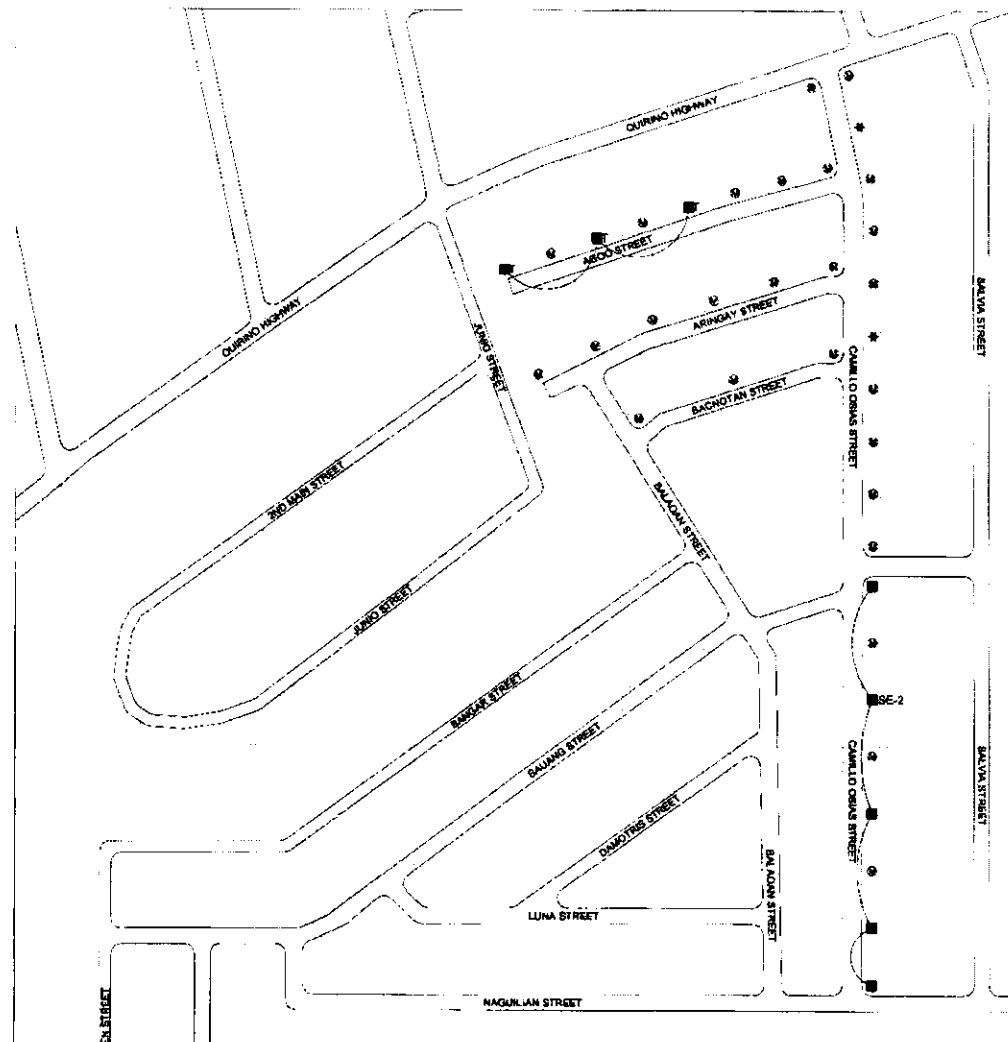
PTN NO. 113066
ISSUED DATE, JANUARY-13 2025

6140

EL-17
17 19

DATE: NO.	
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$$\frac{17}{20}$$



- TAP TO EXISTING CITY LIGHTS
- PROPOSED SERVICE ENTRANCE
- PROPOSED POST / LIGHT
- ★ QUEZON CITY POST / LIGHT
- Ⓜ MERALCO POST / LIGHT
- Ⓢ BARANGAY POST / SOLAR LIGHT

1 | BLOW-UP 3 (BARANGAY KALIGAYAHAN)

SCALE 1:125M.



Republika ng Pilipinas
Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
Civil Engineering Building 2, 386 N. Compadre, Cifuentes Road
Davao, Corral 9109 Davao City
Telephone: 455 2888, 4552
E-mail address: engineering@deu.edu.ph

**PROPOSED INSTALLATION OF STREETLIGHTS
IN BARANGAY FAIRVIEW, BARANGAY STA.
MONICA, BARANGAY KALIGAYAHAN AND
BARANGAY SAN AGUSTIN**

LOCATION BANGKAY FERRY/ST. MONICA, KALIGAYAN AND SAN AGUSTIN DISTRICT 5, CUEZON CITY

SAFETY CONTINUED	
	BLOW-UP 3 (BARANGAY KALIGAYAN)

ENGR. ARJAY L. GUEVARRA
ELECTRICAL ENGINEER

PRC MC 000677
VALID DATE: NOVEMBER 11, 2024

PTR NO: 712560
ISSUED DATE: JANUARY 10, 2025

ENGR. FREDERICK L. DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

FILE NO 0076456
VALU DATE MARCH 28 2007

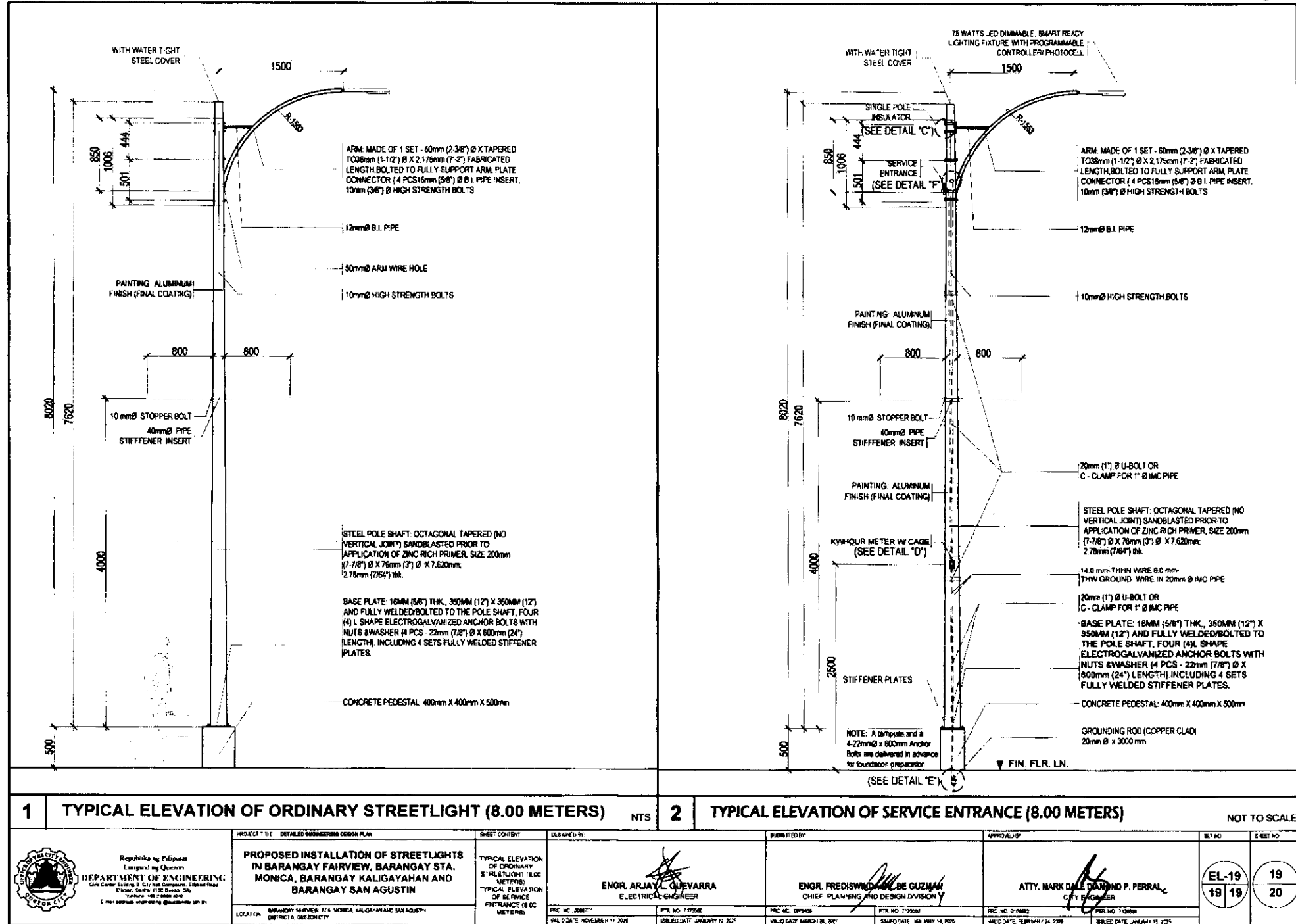
PTR NO. 1120552
TEST DATE: JANUARY 13, 2002

ATTY. MARK DALE DIAMOND P. PERR.
CITY ENGINEER

PRC NO 1107802
VALID DATE FEBRUARY 24 2001

ISSUED DATE: MAY 10 1975

SET NO.	Sheet No.
EL-18 18 19	18 20



GENERAL NOTES

1. ALL WORK SHALL BE EXECUTED IN ACCORDANCE TO THE LATEST EDITION OF THE NATIONAL STRUCTURAL CODE OF THE PHILIPPINES, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES.
2. ALL WORK SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL ENGINEER RELATED TO THE ACTIVITIES BEING UNDERTAKEN.
3. ALL CONTRACTORS SHALL COMPLY WITH THE RESPECTIVE LAWS GOVERNING CONFLICTS OF JURISDICTION OF ACTIVITIES.
4. ALL WORK SHALL BE REFUSED AND TURNED-OVER TO THE CITY.
5. ALL DRAWINGS AND SPECIFICATIONS SHALL BE CORRECTLY REVISITED BY THE CONTRACTOR AND SHALL IMMEDIATELY BE INFORMED IF DISCREPANCY/INCONSISTENCY OCCURS HEREIN.
6. ALL CONTRACTORS, SUB-CONTRACTORS AND THEIR EMPLOYEES SHALL COMPLY WITH THE ACTUAL CONDITIONS PRIOR TO EXECUTION.
7. ALL CONTRACTORS SHALL PROVIDE A NECESSARY PRIOR TO THE EXECUTION.
8. ALL WORK SHALL BE TESTED AND COMMISSIONED AS INDICATED IN "E" SPECIFICATIONS WITH THE PRESENCE OF ALL PARTIES INVOLVED. RESULTS SHALL BE DOCUMENTED PROPERLY.
9. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL MEMBERS, UNLESS OTHERWISE ALLOWED.

10. PROVIDE ADEQUATE BRACING AND SHORING TO WITHSTAND THE IMPROVED LOADS DURING CONSTRUCTION TO MAINTAINMENT OF ALL OF STAKE-UP AND VALIDATED PRIOR TO ANY CONCLUSIVE FORMING ACTIVITIES

17.1 ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND BUMPS AS FOLLOWS:

19.3 ALL REINFORCING BARS SHALL CONFORM TO ASTM GRADE 276 (276MPa) FOR 12mm & SMALLER BARS AND GRADE 416 HYSLUM FOR 16mm & OVER SIZES BARS.

CONCRETE COVER

11.8 ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.

11. REINFORCE FOR STRENGTH OF JOINTS AND SURFACES
POLISHING BY THE USE OF NET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.

[illegible]12. STRUCTURAL STEEL AND PLATES

12.2 ANCHOR & FASTENER SIZE: ALL SIZE SHALL CONFORM TO ASTM (A-307) SPECIFICATIONS.

MINIMUM YIELD STRENGTH = 430MPa

13: FOUNDATION IS DESIGNED BASED ON NATIONAL BUILDING CODE OF THE PHILIPPINES FOR AN ALLOWABLE SOIL

THE FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER. NO PART OF THE FOUNDATION SHALL REST ON ICE.

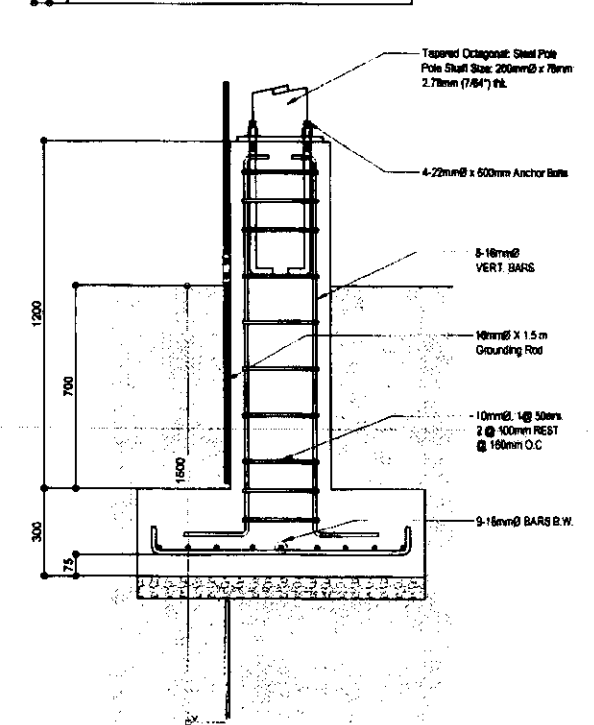
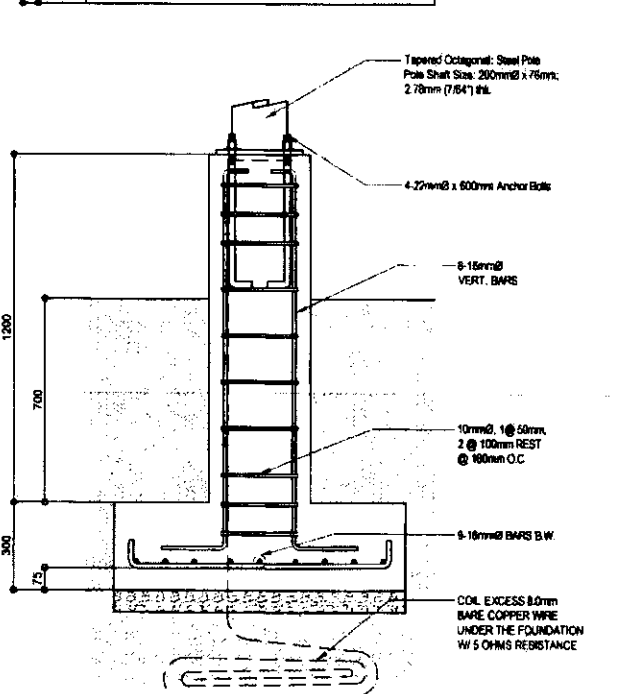
-- SOIL CONDITIONS WHICH DO NOT CONFORM TO THE SOIL BEARING CAPACITY FOR PROPER REVISION.

14.1 MORTAR & GROUT FOR ALL CONCRETE MASONRY SHALL CONFORM TO ASTM 778 - TYPE N & SHALL HAVE A

14.2 ALL C-CH SHALL BE LAID OUT WITH THE CALLS IN UNOBTSTRUCTED VERTICAL CONTINUITY. ALL CELLS ESPECIALLY THOSE WITH REINFORCEMENT SHALL BE FILLING WITH MORTAR.

14.4 ALL MASONRY WALLS SHALL BE PROVIDED WITH REINFORCING BARS BLOCK & REINFORCING AS REQUIRED

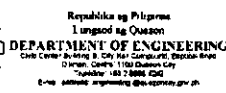
NOTE: FOR DOORS & WINDOWS OPENING PROVIDE 1/2" X 2" EDGEBAND AS STIFFENER FROM BLOCK



NOT TO SCALE

NOT TO SCALE

NOT TO SCALE



LOCATION: BANGKAY FARMER ST. & BOCCA MUGAY AND SAN AGUSTIN

ENGR. ARJAY L. GUEVARRA
ELECTRICAL ENGINEER

SEC NO 0065771	PER NO 7-2000
WEIO DATE NOVEMBER 11 2006	SEC'D DATE JAN 1987

ENGR. FREDERICK D. DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PNC NO 257948	PTE NO T12642
VALID DATE APR 02 2027	VALID DATE JANUARY 1

ATTY. MARK DALE DIAMOND P. PERRAL
CITY ENGINEER

REC NO: 200402	REC NO: 2005
VAL DATE: 4 APRIL 2005	VAL DATE: 11 MAY 13 2005

SET NO	SHEET NO
ST-01	20
01 01	20

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 INSTALLATION OF STREETLIGHTS IN BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN AND BARANGAY SAN AGUSTIN

LOCATION : BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN, BARANGAY SAN AGUSTIN

PROJECT NO. : 25-00011

DURATION : One Hundred Eighty (180) Calendar Days

BREAKDOWN OF COST

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST
			%	VALUE			
PART I	OTHER GENERAL REQUIREMENTS						
PART II	CIVIL/STRUCTURAL AND ELECTRICAL WORKS						
PART A	EARTHWORKS						
PART B	ELECTRICAL WORKS						
PART C	MISCELLANEOUS STRUCTURES						
	TOTAL OF PART II						
	TOTAL						

TOTAL COST P_____

LUMP SUM BID IN WORDS : _____

Contractor : _____

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED INSTALLATION OF STREETLIGHTS IN BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN AND BARANGAY SAN AGUSTIN
LOCATION : BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN, BARANGAY SAN AGUSTIN
PROJECT NO. : 25-00011
DURATION : One Hundred Eighty (180) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UP IN %		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
B.4(1)	Construction Survey and Staking	251	sq.m.									
B.5	Project Billboard/Signboard	1	each									
B.7(1)	Occupational Safety and Health Program	6	month									
B.9	Mobilization	1	unit									
B.9	Demobilization	1	unit									
	TOTAL OF PART I											
801(6)	Removal of Actual Structures/Obstructions	24	cu.m.									
803(1)a	Structure Excavation, Solid Rock	251	cu.m.									
804(1)a	Embankment from Roadway/Structure Excavation	172	cu.m.									
	SUB-TOTAL OF PART A											
B.1 Roadway Lighting												
624(1)	Single Arm Post, with Street Light, LED 75w, 8m	166	set									
624(7)	Photocell with coupling	166	set									
B.2 Roughins, Boxes and Fittings												
1100	25mmØ IMC Pipe with coupling	20	set									
1100	25mmØ Weatherproof Entrance Cap	20	piece									
B.3 Wires and Wiring Devices												
1101	3.5mm² THWN Wire	1,458	l.m.									
1101	14mm² THWN Wire	910	l.m.									
1101	14mm² Triplex Wire (ACSR-Neutral Wire)	15,720	l.m.									
1101	2.0mm² THW Wire	729	l.m.									
1101	8.0mm² THW Wire	455	l.m.									

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED INSTALLATION OF STREETLIGHTS IN BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN AND BARANGAY SAN AGUSTIN
LOCATION : BARANGAY FAIRVIEW, BARANGAY STA. MONICA, BARANGAY KALIGAYAHAN, BARANGAY SAN AGUSTIN
PROJECT NO. : 25-00011
DURATION : One Hundred Eighty (180) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UP IN %		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
B.4 Panelboard with Main and Branch Breakers												
1102	Main: 40AT, 2P, 230V, 60Hz 1Ø	20	assy									
B.5 Grounding System												
1109	20mmØ x 3000mm Grounding Rod (Copper Clad) with Ground Clamp and accessories	20	set									
B.6 Miscellaneous Electrical												
1111	Secondary Rack, Heavy Duty, 1-Spool	166	piece									
1111	Flat Aluminum Armor	166	piece									
	SUB-TOTAL OF PART B											
601(1)	Restoration of Sidewalk (100mm thk.)	252	sq.m.									
625(4)e	Road Safety Barrier System, Steel Barricade	67	each									
	SUB-TOTAL OF PART C											
	TOTAL OF PART II											
	GRAND TOTAL											

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

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
and

Technical Documents

- ☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy*); **and**
- ☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules 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**
- ☐ (d) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- ☐ (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- ☐ (f) Project Requirements, which shall include the following:
 - ☐ a. Organizational chart for the contract to be bid;
 - ☐ 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 lessor/vendor for the duration of the project, as the case may be (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**
- ☐ (g) Original duly signed Omnibus Sworn Statement (OSS);
and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

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

- ☐ (h) 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**
- ☐ (i) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*).

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

- ☐ (k) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- ☐ (l) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- ☐ (m) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- ☐ (n) Cash Flow by Quarter.

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

BID FORM

Date : _____
Project Identification No. : _____

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

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

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute

¹ currently based on GPPB Resolution No. 09-2620

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

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

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]

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

GPPB Resolution No. 16-2020, dated 16 September 2020

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, Procurement Agent if engaged, 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, Procurement Agent if engaged, 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, Procurement Agent if engaged, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

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

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:

1. 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.
2. 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);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
 - b. 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. **Winning bidder agrees that 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.**
3. 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]

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: _____

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (How construction subcontractor works with it) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION - ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE	PERCENTAGE		VALUE OF OUTSTANDING WORKS (IN PWT)
									ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	
									TOTAL AMOUNT (PWT) OF OUTSTANDING WORKS		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page _____ of _____

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

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

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, SUBCONTRACTOR, PARTNER IN A JV) AND PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION OF ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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.

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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 AWARDED BUT NOT YET STARTED CONTRACTS SUBMITTED

REPUBLIC OF THE PHILIPPINES)
_____) S. S.

AFFIDAVIT OF UNDERTAKING

I _____, of legal age, Filipino, [OFFICER OR REPRESENTATIVE]

with office address at _____ after
having been duly sworn to in accordance with law, hereby voluntary depose and state:

That I am duly authorized representative of the [Name of Bidder] to execute this
undertaking as evidenced by Secretary's Certificate and Board Resolution.

That [Name of Bidder] bidding for the (Name of Project)

That relative to the aforementioned Project, the [Name of Bidder] hereby undertake that
the equipment to be use and the key personnel to be assign shall exclusively be used and will
only perform to the project until its completion.

That I am executing this affidavit to attest to the truth of the foregoing and in compliance with
the submission of the technical requirements for the public bidding of the said project.

IN WITNESS HEREOF, I have hereunto signed my name below this _____ day of _____,
_____ at _____.

AFFIANT FURTHER SAYETH NAUGHT.

Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this _____ day of _____
_____ in _____
affiant exhibiting to me his/her _____ issued at
_____ on _____.

Doc. No. ;
Page No. ;
Book No. ;
Series of 2020

Notary Public

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