

PHILIPPINE BIDDING DOCUMENTS

**Procurement of
INFRASTRUCTURE
PROJECTS**

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION OF HAND WASHING
FACILITY AND REHABILITATION OF DAY CARE CENTER
AT DISTRICT 5 AREA X**

**Project number:
22-00006**

**Sixth Edition
July 2020**

Preface

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

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

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

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

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

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

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

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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



REPUBLIC OF THE PHILIPPINES
QUEZON CITY GOVERNMENT
BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE &
CONSULTANCY



2nd floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

January 17, 2022

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
<i>Buildings – Small B</i>							
1	22-00001	Proposed Rehabilitation of Day Care Center at District 5 / Area IX (Cluster 2)	Novaliches Proper, Nagkaisang Nayon	3,596,040.51	60	Engineering Dept.	Engineering Department-Continuing Appropriation
2	22-00002	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 5 / Area VIII (Cluster 3)	Kailigayahan, Fairview	4,390,415.05	60	Engineering Dept.	Engineering Department-Continuing Appropriation
3	22-00003	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 6 / AREA X	Sauyo	4,513,739.69	75	Engineering Dept.	Engineering Department-Continuing Appropriation
4	22-00004	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 6 / Area XI	Balonbato, Sangandaan	5,659,364.94	90	Engineering Dept.	Engineering Department-Continuing Appropriation
5	22-00005	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 5 / AREA VIII (Cluster 2)	Pasong Putik Proper, Sta. Lucia	6,193,888.63	60	Engineering Dept.	Engineering Department-Continuing Appropriation
6	22-00006	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 5 Area X	Bagbag, San Bartolome, Gulod	6,734,114.50	60	Engineering Dept.	Engineering Department-Continuing Appropriation
7	22-00007	Proposed Rehabilitation of Day Care Center at District 5 Area IX (Cluster 1)	Nagkaisang Nayon, San Agustin	6,973,975.80	60	Engineering Dept.	Engineering Department-Continuing Appropriation
8	22-00008	Proposed Construction of Two (2) Storey Nomar II Day Care Center at Barangay San Bartolome	San Bartolome	9,776,081.57	180	Engineering Dept.	Engineering Department-Continuing Appropriation
9	22-00009	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 6 / Area XII	Pasong Tamo	9,855,463.80	75	Engineering Dept.	Engineering Department-Continuing Appropriation
10	22-00010	Proposed Renovation of ITDD, AMO and District Coordinators at Second Floor Main Building, QC Hall Compound	Central	13,236,971.37	180	Engineering Dept.	Engineering Department-Continuing Appropriation

<u>Buildings – Medium A</u>							
11	22-00011	Proposed Construction of Four (4) Storey with Deck Quirino 2-C Barangay Hall	Quirino 2-C	41,886,320.36	300	Engineering Dept.	Engineering Department-Continuing Appropriation
12	22-00012	Proposed Construction of Material Recovery and Composting Facility (MRCF) at Barangay Holy Spirit (Phase 1)	Holy Spirit	75,484,667.34	360	Engineering Dept.	Engineering Department-Continuing Appropriation
<u>Flood Control – Small B</u>							
13	22-00013	Proposed Construction of Retaining Wall at Housing No. 23	Greater Lagro	3,611,788.95	120	Engineering Dept.	Local Disaster Risk Reduction and Management Fund - Continuing Appropriation
<u>Flood Control – Medium A</u>							
14	22-00014	Proposed Construction of Reinforced Concrete Canal at Balingasa Creek (Old Samson Road)	Balingasa	39,226,171.70	240	Engineering Dept.	Local Disaster Risk Reduction and Management Fund - Continuing Appropriation
15	22-00015	Proposed Construction of Reinforce Concrete Canal at Culiati Creek (Mindanao Avenue to existing Bridge / Road 5)	Project 6	60,562,554.95	300	Engineering Dept.	Local Disaster Risk Reduction and Management Fund - Continuing Appropriation
<u>Parks – Small B</u>							
16	22-00016	Proposed Construction of Linear Park (Diamond HOA) at Kasunduan Street	Commonwealth	4,885,324.49	90	Parks Dept.	Engineering Department-Continuing Appropriation
<u>Roads – Small B</u>							
17	22-00017	Proposed Land Development of Human and Pet Crematorium and Columbarium Phase 2 at Barangay Bagong Silangan	Bagong Silangan	2,064,680.70	90	Engineering Dept.	Engineering Department-Continuing Appropriation
18	22-00018	Proposed Rehabilitation of Drainage System, Sidewalk and Surface Improvement at Economia Street	Bagumbayan	8,294,235.72	150	Engineering Dept.	OCM - 20% Community Development Fund
19	22-00019	Proposed Rehabilitation of Road and Drainage at Gozum Street (St. James Subdivision)	Nagkaisang Nayon	14,188,360.03	180	Engineering Dept.	OCM - 20% Community Development Fund (Previous Years Accom Balances)

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 **18 January 2022 (Tuesday)** from given address and website/s below *and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person*.

STANDARD RATES:

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

The following are the requirements for purchase of Bidding Documents;

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 on or before **January 25, 2022 - 5:00PM**.

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bid Conference¹ on **January 26, 2022 at 10:00 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.

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

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 **February 9, 2022 – 9:00AM**. 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 **February 9, 2022 - 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:

ATTY. MARK DALE DIAMOND P. PERRAL

Chairman, BAC-Infra and Consultancy

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, **Quezon City Government** invites Bids for the **PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 AREA X**, with Project Identification Number **22-00006**.

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

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2022** in the amount of **Six Million Seven Hundred Thirty-Four Thousand One Hundred Fourteen Pesos & 50/100 Cts. (P 6,734,114.50)**.

2.2. The source of funding is:

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

3. Bidding Requirements

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

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

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

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

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or

through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

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

A contract is considered to be “similar” to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

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

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

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

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

- 7.3. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address on **January 26, 2022, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320**

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.

- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security **in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph **5** of the **IB**.

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause																																																	
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.																																																
7.1	Subcontracting is not allowed.																																																
10.3	<p><i>No additional contractor license or permit is required</i></p> <p><i>In addition, eligible bidders shall qualify or comply with the following:</i></p> <p>1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)</p> <p style="padding-left: 40px;">Type</p> <p style="text-align: center;">Building - Small B</p>																																																
10.4	<p>The minimum work experience requirements for key personnel are the following:</p> <p style="text-align: center;">PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Qty.</th> <th style="text-align: center;">Key Personnel</th> <th style="text-align: center;">General Experience</th> <th style="text-align: center;">Relevant Experience</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Project Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Safety Officer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Foreman</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Skilled Worker</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Driver</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Laborer</td> <td style="text-align: center;">1 year</td> <td style="text-align: center;">3 months</td> </tr> </tbody> </table> <p style="text-align: center;">PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Qty.</th> <th style="text-align: center;">Key Personnel</th> <th style="text-align: center;">General Experience</th> <th style="text-align: center;">Relevant Experience</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Project Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Safety Officer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Foreman</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Skilled Worker</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">3 years</td> </tr> </tbody> </table>	Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Engineer	3 years	3 years	1	Safety Officer	3 years	3 years	1	Foreman	3 years	3 years	4	Skilled Worker	3 years	3 years	1	Driver	3 years	3 years	3	Laborer	1 year	3 months	Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Engineer	3 years	3 years	1	Safety Officer	3 years	3 years	1	Foreman	3 years	3 years	6	Skilled Worker	3 years	3 years
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1	Driver	3 years	3 years
5	Laborer	1 year	3 months

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF SAMPAGUITA DAY CARE CENTER

Qnty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	DPWH duly accredited Materials Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
7	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
4	Laborer	1 year	3 months

PROPOSED REHABILITATION OF POCC (HOLY TRINITY) DAY CARE CENTER

Qnty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
7	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
7	Laborer	1 year	3 months

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.

10.5	<p>The minimum major equipment requirements are the following:</p> <p style="text-align: center;">PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Equipment</th> <th style="text-align: left;">Capacity</th> <th style="text-align: left;">Number of Units</th> </tr> </thead> <tbody> <tr> <td>Elf Truck</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>Scaffolding</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Power Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Minor Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> </tbody> </table> <p style="text-align: center;">PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Equipment</th> <th style="text-align: left;">Capacity</th> <th style="text-align: left;">Number of Units</th> </tr> </thead> <tbody> <tr> <td>Elf Truck</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>Scaffolding</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Power Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Minor Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> </tbody> </table> <p style="text-align: center;">PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF SAMPAGUITA DAY CARE CENTER</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Equipment</th> <th style="text-align: left;">Capacity</th> <th style="text-align: left;">Number of Units</th> </tr> </thead> <tbody> <tr> <td>Welding Machine</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>Elf Truck</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>Power Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Minor Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> </tbody> </table> <p style="text-align: center;">PROPOSED REHABILITATION OF POCC (HOLY TRINITY) DAY CARE CENTER</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Equipment</th> <th style="text-align: left;">Capacity</th> <th style="text-align: left;">Number of Units</th> </tr> </thead> <tbody> <tr> <td>Elf Truck</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>Scaffolding</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Power Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> <tr> <td>Minor Tools</td> <td></td> <td style="text-align: center;">as needed</td> </tr> </tbody> </table> <p><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></p>	Equipment	Capacity	Number of Units	Elf Truck		1	Scaffolding		as needed	Power Tools		as needed	Minor Tools		as needed	Equipment	Capacity	Number of Units	Elf Truck		1	Scaffolding		as needed	Power Tools		as needed	Minor Tools		as needed	Equipment	Capacity	Number of Units	Welding Machine		1	Elf Truck		1	Power Tools		as needed	Minor Tools		as needed	Equipment	Capacity	Number of Units	Elf Truck		1	Scaffolding		as needed	Power Tools		as needed	Minor Tools		as needed
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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 134,682.29 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 336,705.73 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.</p>
19.2	<p>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.</p>
20	<p>No additional requirement.</p>
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 60 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 that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	<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.



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT
5th, 6th, 7th Floors, QC Civic Center Building "B"
Telephone Nos. 8988-4242 Local 8538



PROJECT TITLE **PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER**
LOCATION **BARANGAY BAGBAG, DISTRICT 5, QUEZON CITY**

TECHNICAL SPECIFICATIONS

I. 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. **Temporary Facilities and Utilities**
 1. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
 2. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.

3. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
 4. Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage
 5. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period
 6. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
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. Personal Protective Equipment (PPE) shall consist of safety helmet/hard hat, safety reflectorized vest, safety insulated gloves, dust mask, safety shoes, safety goggles, and safety harness. Every skilled and unskilled worker, and the project foreman shall be provided PPE by the Contractor. Consideration of quantity shall be made for the Project Engineer, Materials Engineer, Safety Officer/Practitioner (as required) and project driver.
 6. Construction safety materials shall consist of safety net, fire extinguisher and safety signage and posters.
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- M. Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program

II. 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.

- E. Soil Poisoning. There are two methods usually adopted in soil poisoning which are as follows:

1. Cordoning. This method is usually adopted when there is no visible evidence of termite infestation. Trenches in concentric circles, squares or rectangles are dug 150mm to 220mm wide and at least one meter apart and applied with Liquid Termicide Concentrate working solution at the rate of 8 liters per linear meter
2. Drenching. When soil show termite infestation this method shall be applied. The building area shall be thoroughly drenched with Liquid Termicide Concentrate working solution at the rate of 24 liters per square meter.

III. CIVIL / STRUCTURAL WORKS

A. ROOFING WORKS

1. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 1/8" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
2. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 1/8" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
3. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners. **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

B. MASONRY WORKS

1. Masonry Units (Concrete Hollow Blocks):

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

2. Sand:

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

3. Mortar:

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

4. Reinforcement

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

5. Plaster bond

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

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

C. 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.
- f. **Bolts, Nuts, Studs and Rivets:** ASTM A 307 and A 325.
- g. **Screws:** Fed. Spec FF-S-85, Fed. Spec FF-S-92, and Fed. Spec. FF-S-111.
- h. **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.

IV. ARCHITECTURAL WORKS

A. FLOOR FINISHES

1. 300mm x 300mm Non-Skid Homogeneous Tiles including tile adhesive
2. 400mm x 400mm Homogeneous Tiles including tile adhesive
3. 50mm concrete Topping with Plain Cement Finish

B. WALL FINISHES

1. 300mm x 300mm Homogeneous Tiles including tile adhesive
2. 50mm concrete Topping with Plain Cement Finish

C. 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 kalabmins that can be mixed into putty consistency, with oil-based primers and paints to fill minor surface dents and imperfections.
4. Paint Schedule.
 - b. Exterior Masonry Wall (plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish
 - c. Interior Masonry Wall (plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats latex paint finish
 - d. Interior Dry Wall
 - i. 1 coat primer, 2 coats latex paint finish
 - e. Ceiling Boards

- i. 1 coat primer, 2 coats latex paint finish
 - f. Slab Soffit
 - i. 1 coat primer, 2 coats latex paint finish
 - g. 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, patch 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.

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

Metal shall be clean, dry and free from mill scale and rust. Remove all grease and oil from surfaces. Wash unprimed galvanized metal with etching solution and allow it to dry. Where required to prime cast surfaces 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 flush with surrounding surfaces.
 - b. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
 - c. Painting 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.
1. 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 flushed 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.

- ii. Application shall be as per paint Manufacturer's specification and recommendation.
- iii. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- iv. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- v. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.

- vi 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.
- vii All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

D. CEILING FINISHES

6mm thick Fiber Cement Board including Metal Framing and Accessories

E. DOORS & WINDOWS

Follow as per approved plan and specifications.

F. FABRICATED MATERIALS

Follow as per approved plan and specifications

G. LETTERINGS

Follow as per approved plan and specifications

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable)
- B. Supply, installation and testing of the following:
 1. Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.
 2. Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system
 3. Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational
 4. Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided

- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- I. Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment's to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, ridded when necessary to ensure clearance of debris.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min. then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.
- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.

- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

VI. ELECTRICAL WORKS

A. CONDUITS, BOXES AND FITTINGS

1. This item shall consist of the furnishing and installation of the complete conduit work, consisting of electrical conduits; conduit boxes such as junction boxes, pull boxes, utility boxes, octagonal and square boxes; conduit fittings, such as couplings, locknuts and bushings and other electrical materials needed to complete the conduit roughing-in work of this project.
2. All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
3. All works throughout shall be executed in the best practice in a workmanlike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer.
4. The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
5. All lighting fixtures and lamps are as specified and listed on lighting fixture schedule.
6. All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
7. All auxiliary systems such as telephone and intercom system, time clock system, fire alarm system and public address/nurse's call/paging system installations shall be done in accordance with the approved design.
8. Upon completion of the electrical construction work, the contractor shall provide all test equipment and personnel and to submit written copies of all test results.
9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

B. WIRES AND WIRING DEVICES

1. This item shall consist of the furnishing and installation of all wires and wiring devices consisting of electric wires and cables, wall switches, convenience receptacles, heavy duty receptacles and other devices shown on the approved Plans but not mentioned in these specifications.
2. Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark. Unless specified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts. All wires shall be copper, soft drawn and annealed, smooth and of cylindrical form and shall be centrally located inside the insulation.
3. Conductors or wires shall not be drawn in conduits until after the cement plaster is dry and the conduits are thoroughly cleaned and free from dirt and moisture. In drawing wires into conduits, sufficient slack shall be allowed to permit easy connections for fixtures, switches, receptacles and other wiring devices without the use of additional splices.
4. All conductors of convenience outlets and lighting branch circuit homeruns shall be wired with a minimum of 3.5 mm in size. Circuit homeruns to panel boards shall not be smaller than 3.5 mm but all homeruns to panel board more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size.
5. All wires of 14mm and larger in size shall be connected to panels and apparatus by means of approved type lugs or connectors of the solderless type, sufficiently large enough to enclose all strands of the conductors and securely fastened. They shall not loosen under vibration or normal strain.
6. All joints, taps and splices on wires larger than 14 mm shall be made of suitable solderless connectors of the approved type and size. They shall be taped with rubber and PVC tapes providing insulation not less than that of the conductors.
7. No splices or joints shall be permitted in either feeder or branch conductors except within outlet boxes or accessible junction boxes or pull boxes. All joints in branch circuit wiring shall be made mechanically and electrically secured by approved splicing devices and taped with rubber and PVC tapes in a manner which will make their insulation as that of the conductor.
8. All wall switches and receptacles shall be fitted with standard Bakelite face plate covers. Device plates for flush mounting shall be installed with all four edges in continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plaster filling shall not be permitted. Plates installed in wet locations shall be gasketed.
9. When more than one switch or device is indicated in a single location, gang plate shall be used.


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TECHNICAL SPECIFICATIONS QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF POGC (HOLY TRINITY) DAY CARE CENTER ✓
LOCATION: BARANGAY GULOD, DISTRICT 5, QUEZON CITY

I. GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform 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)
 - i. 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.
 - ii. 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. Temporary Facilities and Utilities
 - i. All facilities shall be near the job site where necessary and shall conform to the best standard for the required types.

- ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations
 - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
 - iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
 - v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period
 - vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
- i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
 - ii. The medical room shall be provided in waterproof; 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
 - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
 - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- l. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents
- m. Final cleaning of the work shall be employed prior to the final inspection for 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

II. 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 to work
- B. Removal / 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.
- D. All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

- a. 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.
- b. 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.

c. **Materials**

- i. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C - 150)
- ii. 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
- iii. 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.
- iv. 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.

d. **Proportioning and Mixing**

- i. 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

- ii. Concrete mixture to be used for concrete shall conform with the structural requirements.
- iii. Mixing - concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

e. **Forms**

- i. 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 of mortar from the concrete. Forms shall be ½" waterproof plywood and form lumber
- ii. Cleaning of Forms - before placing the concrete, the contact surfaces of the formed shall be cleaned of encrustations of mortar, the grout or other foreign material
- iii. 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 along shall be started as soon as the surface is sufficiently hard to permit it without further damage.

f. **Placing Reinforcement:**

Steel reinforcement shall be provided as indicated, together with all necessary wire ties, chairs, spacer supported 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

g. Conveying and Placing Concrete:

- i. 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.
- ii. 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
- iii. 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.
- iv. 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 cured that have commenced initial set, and reinforcement embedded in concrete beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall be by hand spading and tamping and vibrators shall not be used.
- v. 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.

h. Curing

- i. 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.
- ii. 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

i. Finishing

- i. 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 a 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
- ii. 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. MASONRY WORKS

- a. Masonry Units (CHB):
100mm thick for all interior walls and 150mm thick for all exterior walls unless otherwise indicated.

Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required

Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.

- b. Sand:
S-1, washed, clean and greenish in color.

- c. Mortar:
One part "Portland" cement and two parts sand and water but not more than three parts sand and water

- d. Plaster bond
Apply plaster bond to all wall area.

C. METAL WORKS

- a. Description
Metal works shall conform to the approved plans and to the Standard Specifications

- b. Reference Standards
Comply with the latest edition of the following as applicable, unless otherwise specified or modified.

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 1978 Specification for the Design, Fabrication and Erection of Structural Steel for Buildings Code of Standard Practice for Steel Buildings and Bridges; Specification for Architecturally Exposed Structural Steel.
2. AMERICAN WELDING SOCIETY (AWS): Standard Welding Symbols A2.06B; Standard Welding Code D1.1-1973 (Rev. 1-73 & 2-74) (To govern if in conflict with AISC)
3. RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ): Specification for Structural Joists using ASTM A-325-76s Bolts.
4. STRUCTURAL STEEL PAINTING COUNCIL (SSPC): Painting Manual, Vol. 1; Good Painting Practice, Painting Manual, Vol. 2; Systems and Specifications.

- c. Source Quality Control

Errors of Shop Drawings, fabrication, correct fitting and alignment of the various metal items or component members shall be the responsibility of the Contractor. However, the Contractor shall permit the Architect or an independent inspection agency, if engaged by the Owner, to inspect work in progress in his shop. Such inspections shall not relieve the Contractor of his responsibility to furnish materials and workmanship in accordance with the Contract Documents.

d. **Product Delivery, Handling and Storage**

Handle and store in such manner as to prevent damage or disfigurement. Store finished items or components above ground on platforms, pallets or other supports and protect from harmful elements.

e. **Protection**

The Contractor shall protect any existing work subject to damage during the installation of the specified work and shall adequately protect specified work during installation.

f. **Field Quality Control**

Facilities shall be provided by the Contractor as needed for the proper inspection of the specified work, including temporary platforms, hoists, protective devices, electric current, etc. Improper workmanship, as determined by the Architect shall be corrected and replaced, at no additional cost to the Owner.

g. **Materials**

Products shall conform to the respective reference specifications and standards and to the requirements specified herein:

- 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 & A 325
- c) **SCREWS:** Fed. Spec. FF-S-85, Fed. Spec. FF-S-92, and Fed. Spec. FF-S-111

h. **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.

i. **Measurements**

Before fabrication, provide necessary field measurements and verify all measurements.

j. **Metal 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, angles 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.

k. **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.

l. **Shop Fabrication**

Fabrication and assembly shall be done in the shop to the greatest extent possible.

m. **Submittals**

Shop Drawings. Submit along with catalogue, cuts, templates and erection and installation details, indicating thickness, type, grade, type of metal and dimensions. Show construction details, reinforcement, anchorage, and installation with relation to the construction.

n. **Delivery and Storage**

Protect from corrosion, deformation and other types of damage. Store items in an enclosed area free from contact with soil and weather. Contractor shall replace and removed damage items with new items.

o. **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.

p. **Metal Purlins**

Metal purlins shall be of high grade galvanized steel with minimum tensile strength of 275 MPA, 1.4mm in thickness.

D. ROOFING WORKS

- a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 1/2" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

E. WATERPROOFING

a. **Waterproofing:**

Furnish all labor, materials, equipment, plant and other facilities required to complete all waterproofing work as shown on the drawings and herein specified. All applications shall be strictly performed by an approved waterproofing Contractor.

- b. Test waterproofed area by seventy-two (72) hours and check for any seepages.

Note: Thickness should be as per Manufacturers Specifications and Installation depending on the Areas to be applied with.

IV. ARCHITECTURAL WORKS

A. FLOOR AND WALL FINISHES

- a. 600mm x 600mm Non-Skid Homogeneous Tiles
- b. 400mm x 400mm Non-Skid Homogeneous Tiles
- c. 400mm x 400mm Homogeneous Tiles

B. DOORS

- a. Follow as per approved plan and specifications

C. PAINTING WORKS

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. 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.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable)
- B. Supply, installation and testing of the following.
 - B.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.
 - B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
 - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
 - B.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.

- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- I. Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.

- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers. NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed. Fasten inserts to forms and install reinforcing bars through openings at top of inserts
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

VI. ELECTRICAL WORKS

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

F. PANELBOARDS

- F.1. Fabricate and test panel boards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2. Enclosures. Flush, Surface, Flush- and surface-mounted cabinets.
 - F.2.1. Rated for environmental conditions at installed location.
 - i. Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - ii. Outdoor Locations: NEMA 250, Type 3R.
 - iii. Kitchen and Wash-Down Areas: NEMA 250 Type 4X, stainless steel
 - iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
 - v. Indoor Locations Subject to Dust, Falling Dirt, and Dropping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
 - F.2.2. Front. Secured to box with concealed trim clamps. For surface-mounted fronts match box dimensions, for flush-mounted fronts, overlap box.
 - F.2.3. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.

- F.2.4 Skirt for Surface-Mounted Panel boards: Same gage and finish as panel board front with flanges for attachment to panel board, wall, and ceiling or floor.
- F.2.5 Gutter Extension and Barrier: Same gage and finish as panel board enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
- F.2.6 Finishes:
- i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - ii. Back Boxes: Galvanized steel Same finish as panels and trim.
 - iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- F.2.7 Directory Card: Inside panel board door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
- F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
- F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
- F.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

VII. MECHANICAL WORKS (IF APPLICABLE)

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


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PROJECT TITLE **PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER**
LOCATION: **BARANGAY BAGBAG, DISTRICT 5, QUEZON CITY**

TECHNICAL SPECIFICATIONS

I. 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 workers. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J. Temporary Facilities and Utilities
 1. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
 2. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.

3. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
 4. Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage.
 5. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
 6. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
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. Personal Protective Equipment (PPE) shall consist of safety helmet/hard hat, safety reflectorized vest, safety insulated gloves, dust mask, safety shoes, safety goggles, and safety harness. Every skilled and unskilled worker, and the project foreman shall be provided PPE by the Contractor. Consideration of quantity shall be made for the Project Engineer, Materials Engineer, Safety Officer/Practitioner (as required) and project driver.
 6. Construction safety materials shall consist of safety net, fire extinguisher and safety signage and posters.
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- M. Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. 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.

- E. Soil Poisoning. There are two methods usually adopted in soil poisoning which are as follows:

1. Cordoning. This method is usually adopted when there is no visible evidence of termite infestation. Trenches in concentric circles, squares or rectangles are dug 150mm to 220mm wide and at least one meter apart and applied with Liquid Termicide Concentrate working solution at the rate of 8 liters per linear meter.
2. Drenching. When soil show termite infestation, this method shall be applied. The building area shall be thoroughly drenched with Liquid Termicide Concentrate working solution at the rate of 24 liters per square meter.

III. ARCHITECTURAL WORKS

A. FLOOR FINISHES

1. 300mm x 300mm Non-Skid Homogeneous Tiles including tile adhesive
2. 400mm x 400mm Homogeneous Tiles including tile adhesive
3. 50mm concrete Topping with Plain Cement Finish

B. WALL FINISHES

1. 300mm x 300mm Homogeneous Tiles including tile adhesive
2. 50mm concrete Topping with Plain Cement Finish

C. 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.

- b. **Exterior Masonry Wall** (plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish
 - c. **Interior Masonry Wall** (plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats latex paint finish
 - d. **Interior Dry Wall**
 - i. 1 coat primer, 2 coats latex paint finish
 - e. **Ceiling Boards**
 - i. 1 coat primer, 2 coats latex paint finish
 - f. **Slab Soffit**
 - i. 1 coat primer, 2 coats latex paint finish
 - g. **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.

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

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

In addition, the Contractor shall undertake the following

- a. Voids, cracks, nick etc. will be repaired with proper patching material and finished flush with surrounding surfaces.
- b. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
- c. **Painting 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**
- i. **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.

- ii. Application shall be as per paint Manufacturer's specification and recommendation.
- iii. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- iv. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- v. All surfaces including masonry wall shall be thoroughly cleaned, putted, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer
- vi. 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
- vii. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

D. CEILING FINISHES

6mm thick Fiber Cement Board including Metal Framing and Accessories

E. DOORS & WINDOWS

Follow as per approved plan and specifications.

F. FABRICATED MATERIALS

Follow as per approved plan and specifications

G. LETTERINGS

Follow as per approved plan and specifications

IV. SANITARY / PLUMBING WORKS

A Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable)

B Supply, installation and testing of the following:

1. Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system
2. Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system
3. Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
4. Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing which requires any redesign of the system drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- I. Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with the specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.

- U Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.
- X Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.
- Y Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

V. ELECTRICAL WORKS

A. CONDUITS, BOXES AND FITTINGS


- 1 This item shall consist of the furnishing and installation of the complete conduit work, consisting of electrical conduits; conduit boxes such as junction boxes, pull boxes, utility boxes, octagonal and square boxes; conduit fittings, such as couplings, locknuts and bushings and other electrical materials needed to complete the conduit roughing-in work of this project.
- 2 All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
3. All works throughout shall be executed in the best practice in a workmanlike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer.
- 4 The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
5. All lighting fixtures and lamps are as specified and listed on lighting fixture schedule.
6. All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
7. All auxiliary systems such as telephone and intercom system, time clock system, fire alarm system and public address/nurse's call/paging system installations shall be done in accordance with the approved design.

8. Upon completion of the electrical construction work, the contractor shall provide all test equipment and personnel and to submit written copies of all test results.
9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

B. WIRES AND WIRING DEVICES

1. This item shall consist of the furnishing and installation of all wires and wiring devices consisting of electric wires and cables, wall switches, convenience receptacles, heavy duty receptacles and other devices shown on the approved Plans but not mentioned in these specifications.
2. Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark. Unless specified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts. All wires shall be copper, soft drawn and annealed, smooth and of cylindrical form and shall be centrally located inside the insulation.
3. Conductors or wires shall not be drawn in conduits until after the cement plaster is dry and the conduits are thoroughly cleaned and free from dirt and moisture. In drawing wires into conduits, sufficient slack shall be allowed to permit easy connections for fixtures, switches, receptacles and other wiring devices without the use of additional splices.
4. All conductors of convenience outlets and lighting branch circuit homeruns shall be wired with a minimum of 3.5 mm in size. Circuit homeruns to panel boards shall not be smaller than 3.5 mm but all homeruns to panel board more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size.
5. All wires of 14mm and larger in size shall be connected to panels and apparatus by means of approved type lugs or connectors of the solderless type, sufficiently large enough to enclose all strands of the conductors and securely fastened. They shall not loosen under vibration or normal strain.
6. All joints, taps and splices on wires larger than 14 mm shall be made of suitable solderless connectors of the approved type and size. They shall be taped with rubber and PVC tapes providing insulation not less than that of the conductors.
7. No splices or joints shall be permitted in either feeder or branch conductors except within outlet boxes or accessible junction boxes or pull boxes. All joints in branch circuit wiring shall be made mechanically and electrically secured by approved splicing devices and taped with rubber and PVC tapes in a manner which will make their insulation as that of the conductor.
8. All wall switches and receptacles shall be fitted with standard Bakelite face plate covers. Device plates for flush mounting shall be installed with all four edges in continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plaster filling shall not be permitted. Plates installed in wet locations shall be gasketed.
9. When more than one switch or device is indicated in a single location, gang plate shall be used.


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PROJECT NAME: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND
REHABILITATION OF SAMPAGUITA DAYCARE CENTER ✓
LOCATION: BARANGAY SAN BARTOLOME, DISTRICT 5, QUEZON CITY ✓

TECHNICAL SPECIFICATIONS QUEZON CITY INFRASTRUCTURE PROJECT

I. GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform 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)
 - i. 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
 - ii. 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. Temporary Facilities and Utilities
 - i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.

- ii Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
 - iii Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
 - iv Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
 - v Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period
 - vi Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- k Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property
- i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties
 - ii. The medical room shall be provided in waterproof, 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.
 - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site
 - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- l Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents
- m Final cleaning of the work shall be employed prior to the final inspection for 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

II. 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 to work.
- B. Removal / 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.
- D. All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wadding, tamping and rolling.

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

- a 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

- b. 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.
- c. **Materials**
- i. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C – 150).
 - ii. 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.
 - iii. 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.
 - iv. 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 not larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.
- d. **Proportioning and Mixing**
- i. 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
 - ii. Concrete mixture to be used for concrete shall conform with the structural requirements.
 - iii. Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.
- e. **Forms**
- i. **General – Forms** shall be used wherever 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 of mortar from the concrete. Forms shall be ½" waterproof plywood and form lumber.
 - ii. **Cleaning of Forms** – before placing the concrete, the contact surfaces of the formed shall be cleaned of encrustations of mortar, the grout or other foreign material.
 - iii. **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.
- f. **Placing Reinforcement**
- Steel reinforcement shall be provided as indicated, together with all necessary wire ties, chairs, spacer supported 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.

g. **Conveying and Placing Concrete.**

- i. **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.
- ii. **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 imbedded 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.
- iii. **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.
- iv. **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 courses that have commenced initial set; and reinforcement imbedded in concrete beginning to set or already set shall not be disturbed by vibrators. Consolidation around major imbedded parts shall be hand spading and tamping and vibrators shall not be used.
- v. **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.

h. **Curing**

- i. **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.
- ii. **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.

i. **Finishing**

- i. **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 a 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 work.
- ii. **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. ROOFING WORKS

- a. The roof shall be covered with Ga 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

IV. ARCHITECTURAL WORKS

A. PAINTING WORKS

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. 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.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B. Supply, installation and testing of the following:
 - B.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.
 - B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
 - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

- B.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost
- I. Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.

- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency
- U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.
- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping

VI. ELECTRICAL WORKS

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

F. PANELBOARDS

- F.1. Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2. Enclosures: Flush, Surface, Flush- and surface-mounted cabinets
 - F.2.1. Rated for environmental conditions at installed location
 - i. Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - ii. Outdoor Locations: NEMA 250, Type 3R.

- iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel
 - iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4
 - v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
- F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions, for flush-mounted fronts, overlap box.
- F.2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
- F.2.4 Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
- F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
- F.2.6 Finishes.
- i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - ii. Back Boxes: Galvanized steel. Same finish as panels and trim.
 - iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
- F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
 - F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
 - F.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

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 Planning and Programming Division

Section VII. Drawings

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



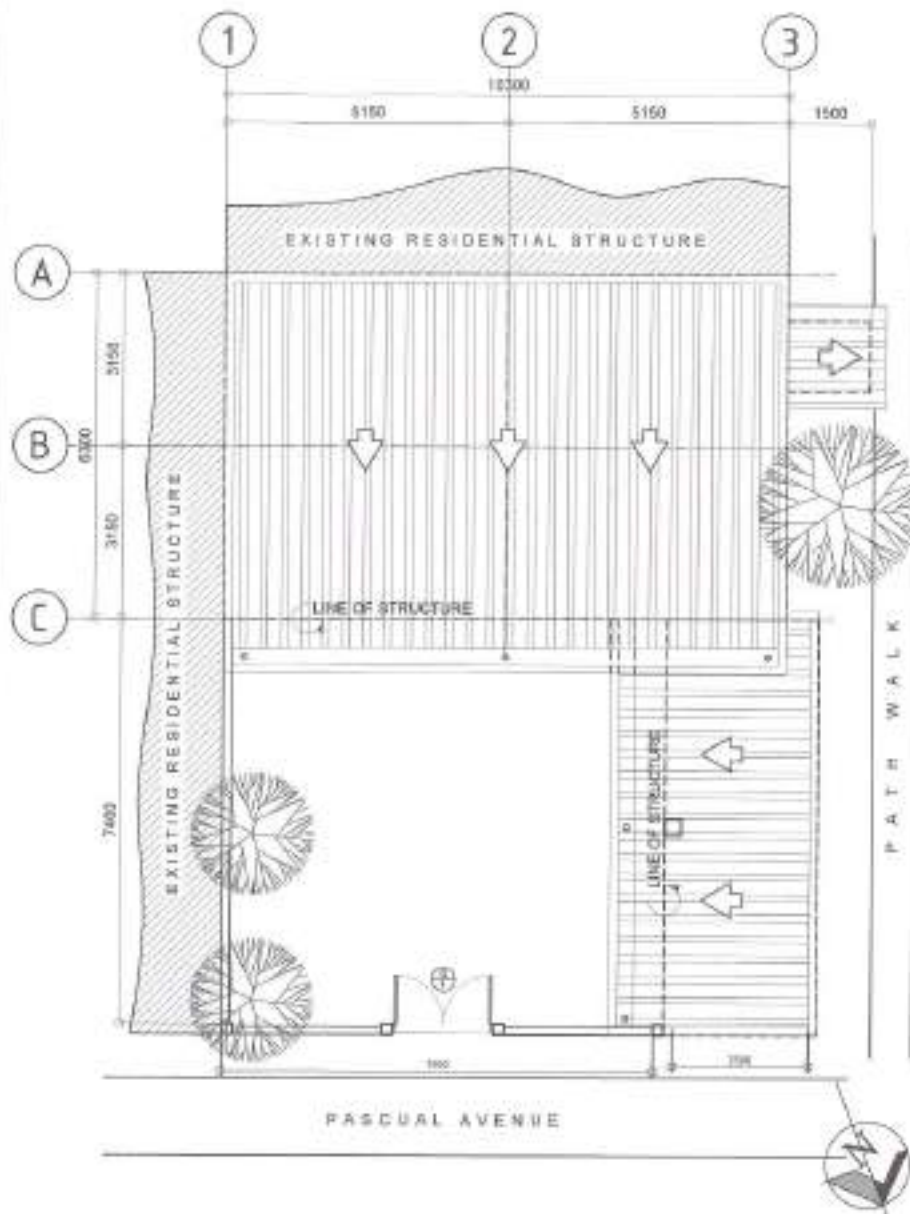
1 VICINITY MAP

SCALE NTS.



2 LOCATION MAP

SCALE NTS.



3 SITE DEVELOPMENT PLAN

SCALE 1:150M

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Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER
LOCATION:	IBAYO, BAGDAD, DISTRICT 5, QUEZON CITY

DESIGN BY:	CHK
DWT:	10.24.2001
CHECKED BY:	SK
REVISION NO.:	

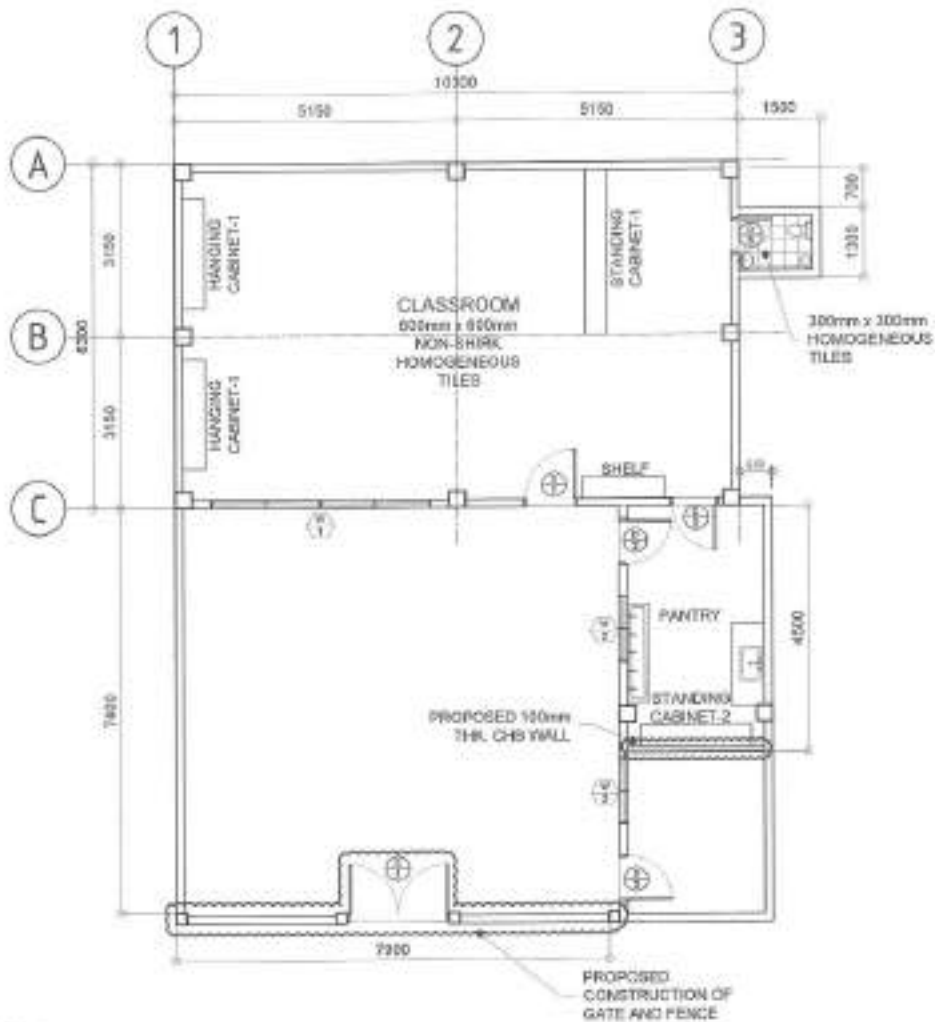
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ENGR. SED S. DEL ROSARIO	HEAD, PLANNING AND PROJECTS DIVISION

RECOMMENDING APPROVAL:	
ENGR. ISMAEL R. VERZOSA, JR.	C.O. & SUPERVISING ENGINEER

APPROVED BY:	
HON. MA. JOSEFINA G. BELMONTE	CITY MAJOR

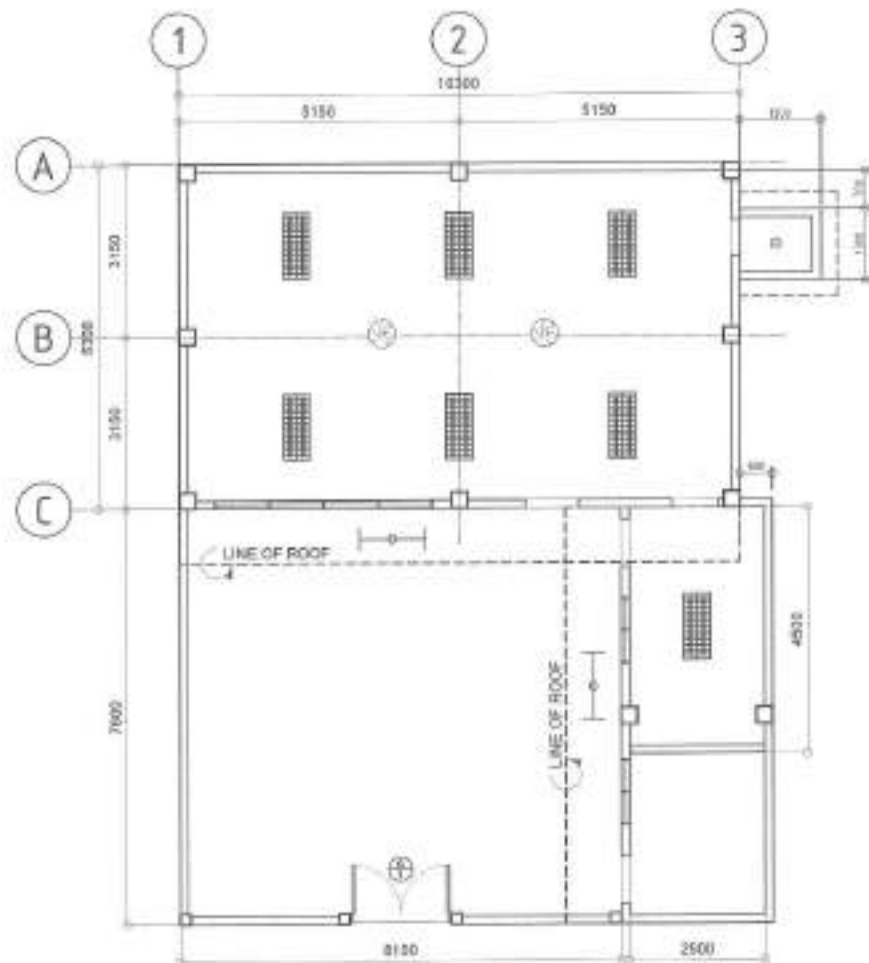
SHEET CONTENT:	WONKY MAP LOCATION MAP SITE DEVELOPMENT PLAN
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SHEET NO.:	AR-01 01/10
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NOTES:

1. DOORS AND WINDOWS TO BE REPLACED.
2. INTERIOR AND EXTERIOR WALL TO BE REPAINTED.
3. CONSTRUCTION OF HANGING CABINETS, STANDING CABINETS AND SHELF.
4. REPLACEMENT OF PLUMBING FIXTURES AT TOILET AND PANTRY.
5. PROPOSED ENCLOSURE OF WALL.
6. CONSTRUCTION OF GATE AND FENCE.



NOTE:

1. REPLACEMENT OF 8mm THICK FIBER CEMENT BOARD INCLUDING ROOF EAVES.

1 GROUND FLOOR PLAN

SCALE 1:100M

2 REFLECTED CEILING PLAN

SCALE 1:100M



Republic of the Philippines
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DATE: 04 JUL 2021
PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER	CHECKED BY: <i>[Signature]</i>
LOCATION:	PROJECT NO.:
BRGY. BACDAS, DISTRICT 5, QUEZON CITY	

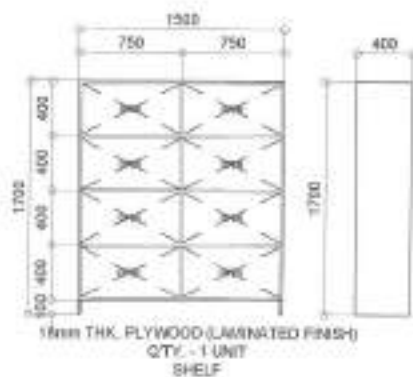
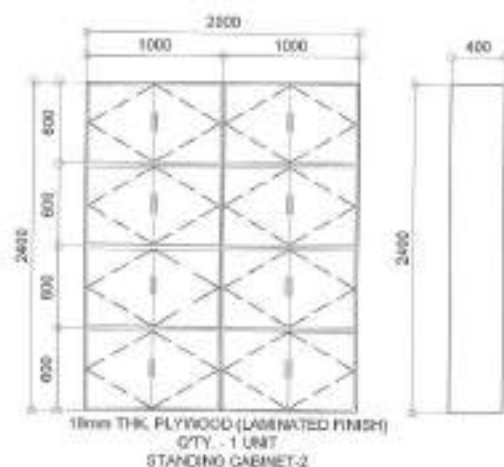
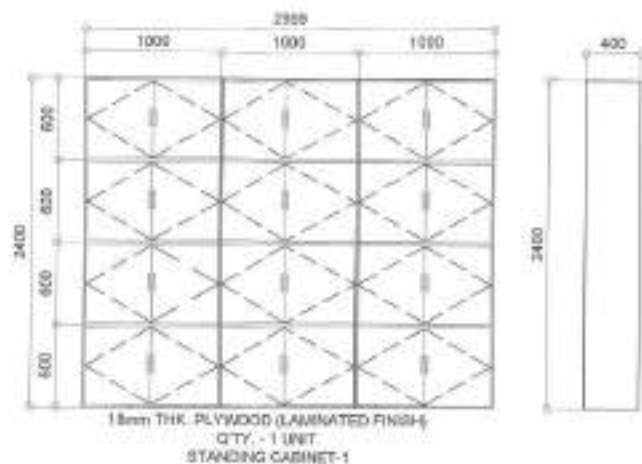
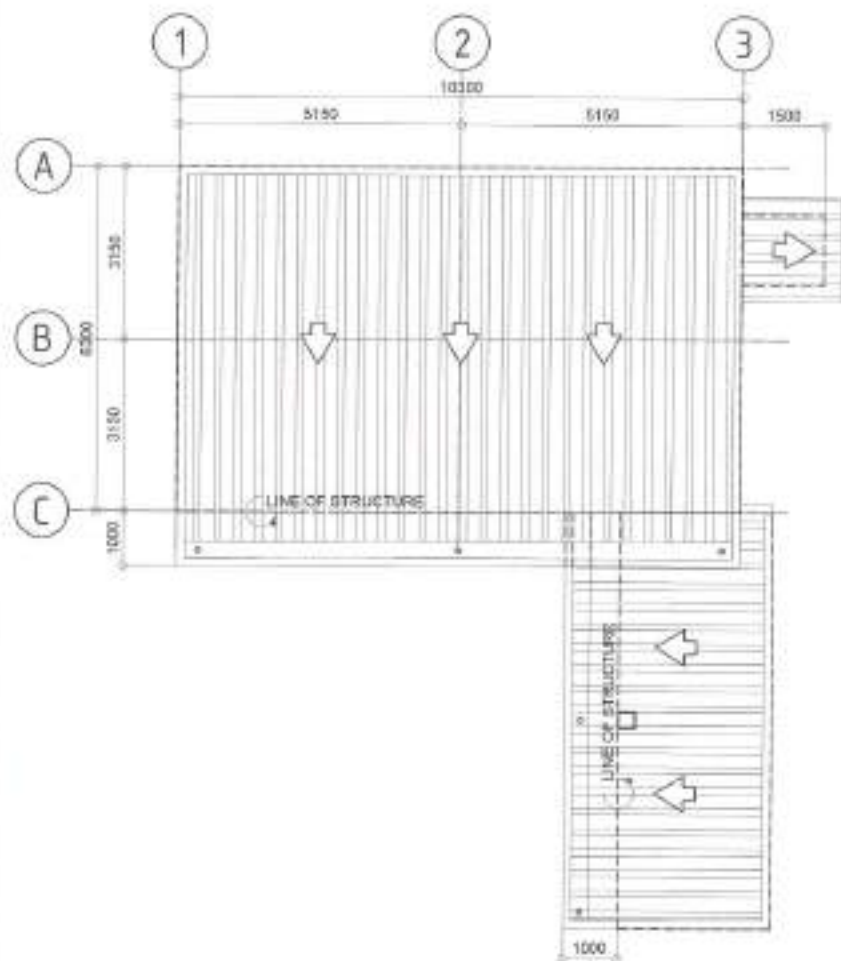
DESIGNED BY: <i>[Signature]</i>	SUBMITTED BY: <i>[Signature]</i>
ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	

REGULATORY APPROVAL:	APPROVED BY:
ENGR. JAGAN R. VERGOSA, JR. DCL. CIVIL ENGINEERING DIVISION	

APPROVED BY:
MRS. MA. JOSEFINA G. BELMORTE CITY ENGINEER

SHEET CONTENT:
GROUND FLOOR PLAN REFLECTED CEILING PLAN

SHEET NO.:
AR-02 02/10



NOTE:
1. REPLACEMENT OF ROOFING AND ACCESSORIES.

1 ROOF PLAN

SCALE 1:100A

2 CABINET DETAILS

SCALE 1:100M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF
IBAYO DAY CARE CENTER**

LOCATION:
BAYAN, BARRAS, DISTRICT 6, QUEZON CITY

DESIGNED BY: *[Signature]*
DATE: 04/2023
CHECKED BY: *[Signature]*
REVISION NO.

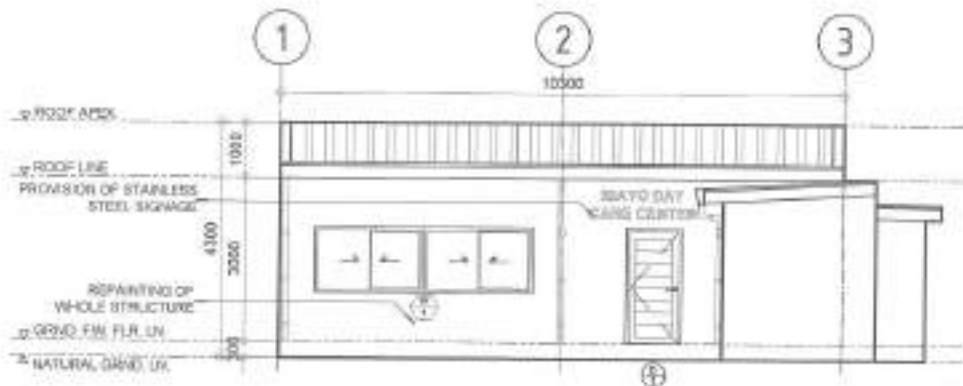
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ENGR. LEY S. DEL ROSARIO
HEAD, PLANNING & PROGRAMS DIVISION

RECOMMENDING APPROVAL: *[Signature]*
ENGR. MAGAM R. VERZOSA, JR.
CH. CITY ENGINEERING DEPARTMENT

APPROVED BY: *[Signature]*
HON. MA. JOSEFINA G. BELMONTE
CITY ENGINEER

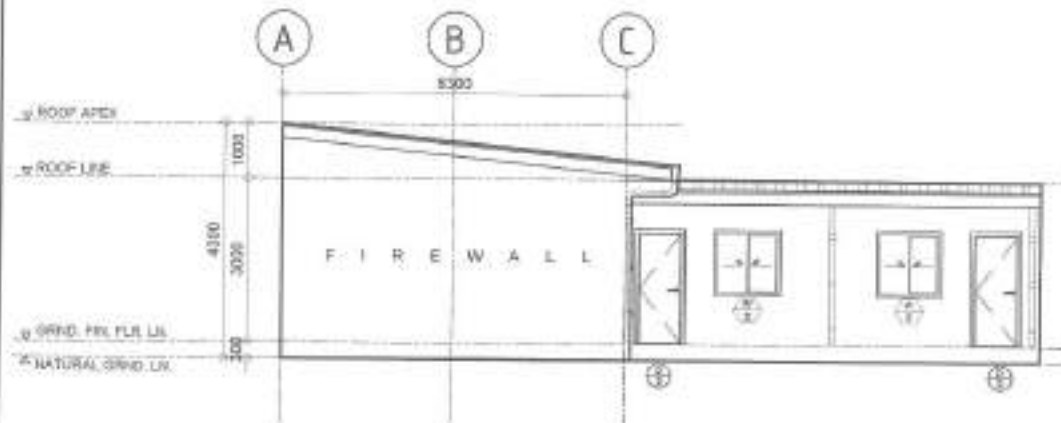
DRAWING CONTENT:
ROOF PLAN
CABINET DETAILS

DRAWING NO.:
AR-03
03/10



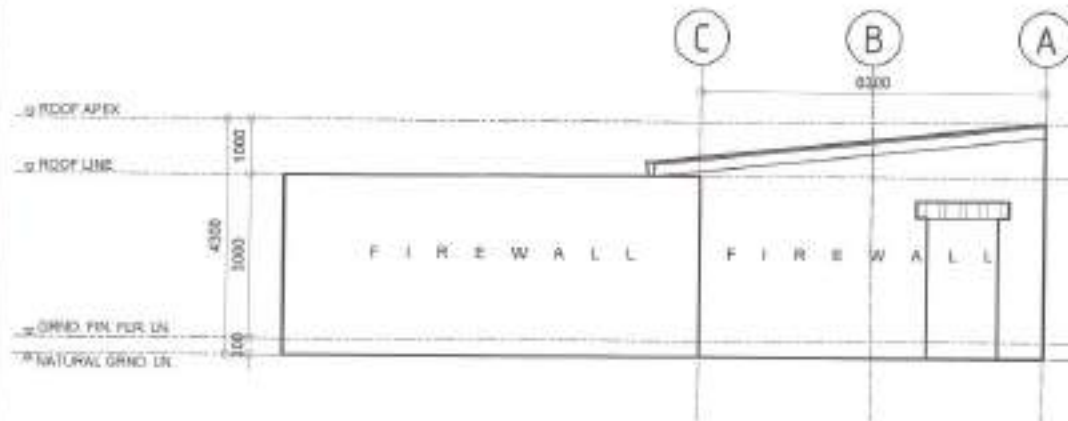
1 FRONT ELEVATION

SCALE 1:100M



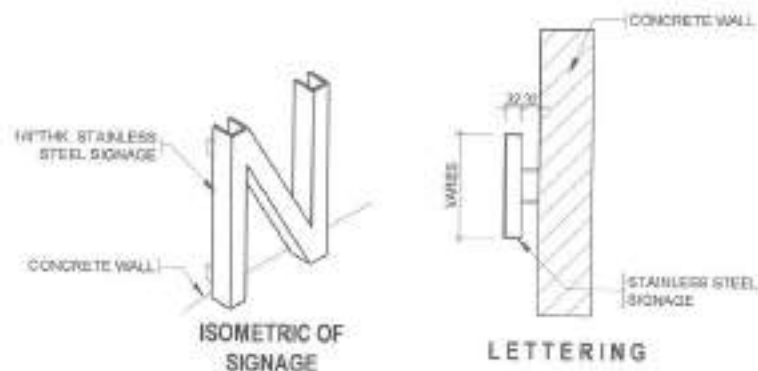
2 LEFT ELEVATION

SCALE 1:100M



3 RIGHT SIDE ELEVATION

SCALE 1:100M



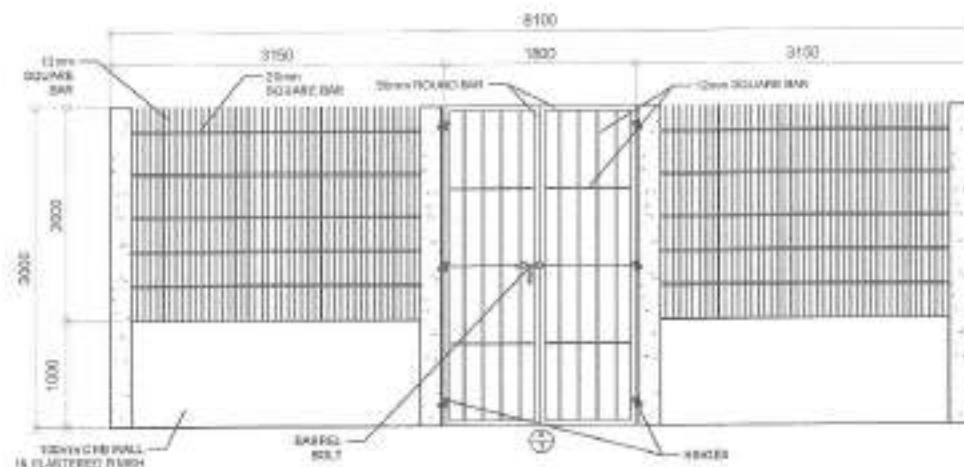
4 LETTERING DETAILS

SCALE 1:100M



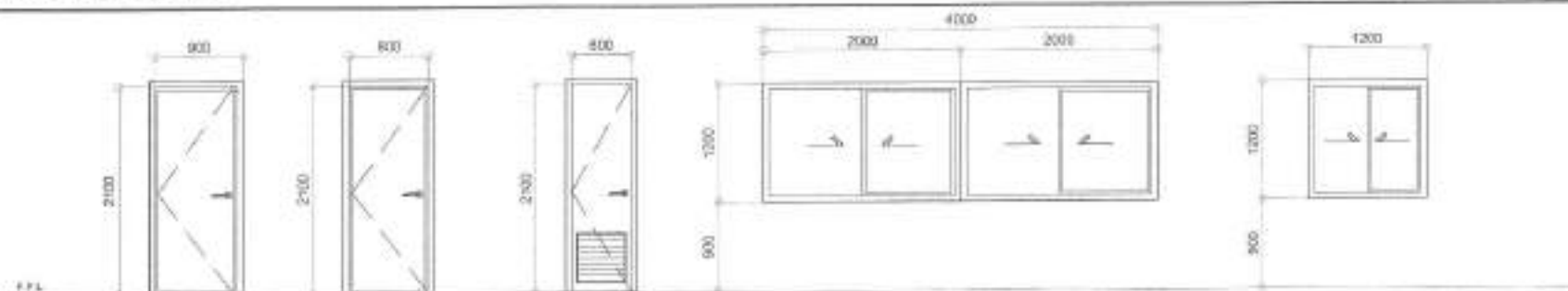
Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER	DESIGNED BY: ENR. LEO S. DEL ROSARIO	CHECKED BY: <i>[Signature]</i>	REVISION NO.:	REGISTERED APPROVAL: <i>[Signature]</i> ENR. LEO S. DEL ROSARIO HEAD, PLANNING & PROJECT MANAGEMENT	REGISTERED APPROVAL: <i>[Signature]</i> ENR. JOSE R. VERZOSA, JR. DIR. OF ENGINEERING DIVISION	APPROVED BY: <i>[Signature]</i> HON. MA. JOSEFINA G. BELMONTE CITY SIVOR	SHEET COUNTY: FRONT ELEVATION RIGHT SIDE ELEVATION LEFT SIDE ELEVATION LETTERING DETAILS	SHEET NO. AR-04 04/10
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1 GATE / FENCE DETAILS

SCALE 1:50M



NO.	1	2	3	4	5
NO. OF SETS	1	3	1	1	2
DESCRIPTION	FLUSH DOOR	FLUSH DOOR	FLUSH DOOR WITH LOUVERS	ALUMINUM FRAME POWDER COATED SLIDING WINDOW WITH 6mm THK CLEAR GLASS	ALUMINUM FRAME POWDER COATED SLIDING WINDOW WITH 6mm THK CLEAR GLASS
LOCATION	CLASSROOM	KITCHEN	TOILET	CLASSROOM AND KITCHEN	KITCHEN
REMARKS	TO BE REPLACED	TO BE REPLACED	TO BE REPLACED	TO BE REPLACED	TO BE REPLACED

2 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:50M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE

PROPOSED REHABILITATION OF
IBAYO DAY CARE CENTER

LOCATION:
BAY, BAWBAG, DISTRICT 5, QUEZON CITY

DRAWN BY: *[Signature]* SUBMITTED BY:

DATE: 03/24/2021

CHECKED BY: *[Signature]*

REVISIONS:

ENGR. LEO S. DEL ROSARIO
HEAD, PLUMBING & MECHANICAL DIVISION

RECOMMENDING OFFICIAL:

ENGR. JESMAN R. VERZOSA, JR.
D.C. CITY ENGINEERING DEPARTMENT

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTÉ
CITY MARCH

PROJECT CODE/NO.

GATE / FENCE
DETAILS
SCHEDULE OF
DOORS AND
WINDOWS

SHEET NO.

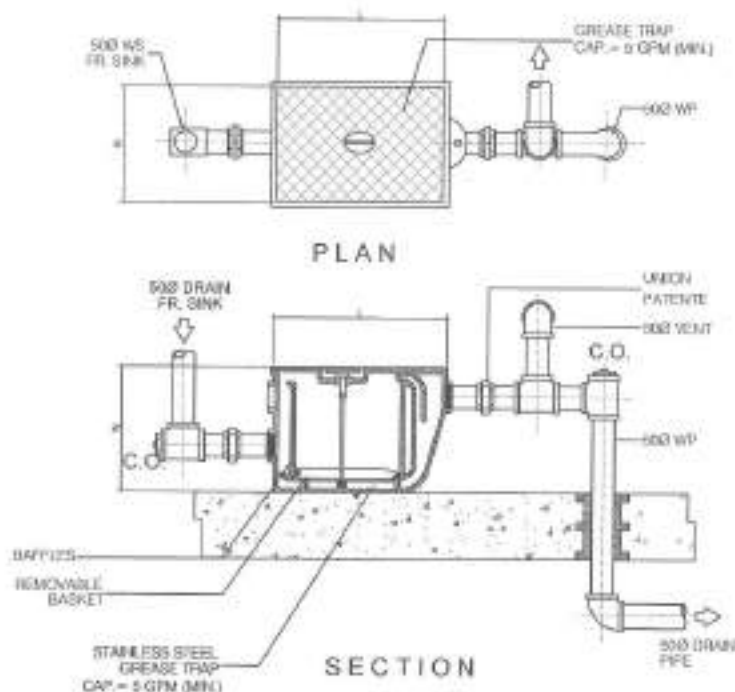
AR-05
05/10

1. All plumbing works and materials indicated herein shall be compliant to the provisions of the latest edition of National Plumbing Code, the rules and regulations of local authorities concerned, the rules and regulations of local utility companies and the provisions of the land developer when and where applicable.
2. The plumbing layout is only diagrammatic; pipes, cleanouts and check valves shall be concealed as much as possible. It is not intended to show the actual dimension of the pipes and fixtures in the drawing but all the pipes and fixtures shall be installed as and where indicated. Any relocation will require proper execution in relation with other trades.
3. The plumbing contractor shall verify all existing utilities at the site and shall coordinate the work with other trades.
4. Pipes shall not be embedded in structural members unless otherwise specified or allowed.
5. Minimum slope for horizontal sewer lines shall be 1% and for drain lines shall be 5%.
6. Proposed plumbing utilities shall conform with the actual location, depth and invert elevation of all existing pipes/utilities.
7. Connection of fixtures to pipes and fittings shall be according to manufacturer's specifications.
8. All floor drains shall be vented individually.
9. All clean out manholes shall be flush-mounted to wall and shall be provided with polished cover caps. Do not install floor clean outs except at lines on grade and service areas not subject to traffic.
10. All underground G.I. pipes in direct contact with soil shall be provided with two (2) coats of protective tar covering and wrapped with jute cloth thoroughly soaked in tar or asphalt.
11. Provide vent stack and vent pipe thru roof of cast iron service weight as required.
12. All cast iron pipes shall be of approved quality and G.I. pipes for water distribution lines shall be Schedule 40 U.S. standard weight.
13. Provide gate valves to all water supply lines to fixtures.
14. All hot water lines shall be provided with proper insulation where exposed.
15. All individual branches to fixtures or group of fixtures and/or equipments shall be provided with air chambers or capped vertical pipe extensions of dimensions as shown:
 H = 450 mm for 19 mm Ø and larger
 H = 300 mm for 12 mm Ø and smaller
16. All hose bibbs shall be 19 mm Ø (3/4" Ø) unless otherwise indicated.
17. Inlet pipe of septic tank is 50 mm higher than the siphon pipe which is 30 mm higher than the outlet pipe.
18. All plumbing works and manner of construction shall be under the direct supervision of an able and duly licensed Master Plumber or Registered Sanitary Engineer. Any discrepancies found in plan shall be notified to the same person.

—	CWL	COLD WATER LINE
—	SL	SANITARY LINE
○	WM	WATER METER
⊗	GV	GATE VALVE
∇	CV	CHECK VALVE
	UP	UNION PATENTE
⊞	GT	GREASE TRAP
⊙	CO	CLEANOUT

2 LEGENDS AND SYMBOLS

SCALE: NTS



1 GENERAL NOTES

SCALE: NTS

3 GREASE TRAP DETAIL

SCALE: NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TYPE:
**PROPOSED REHABILITATION OF
IBAYO DAY CARE CENTER**

LOCATION:
BDOY BAGOAL DISTRICT 5, QUEZON CITY

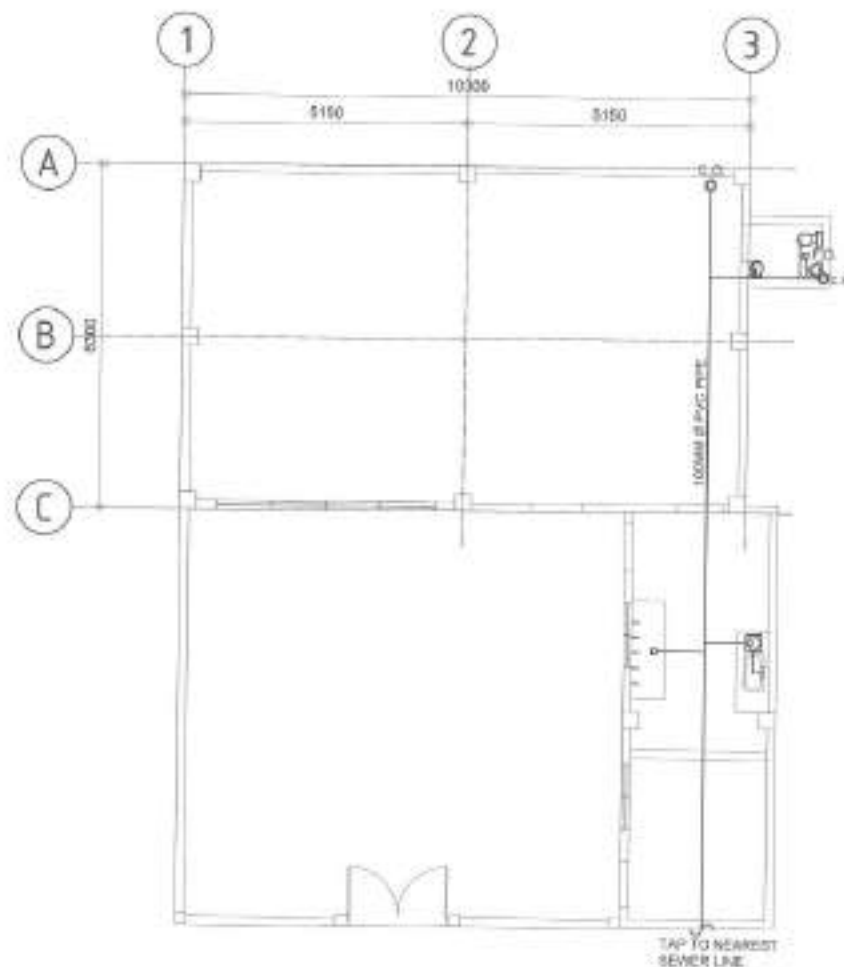
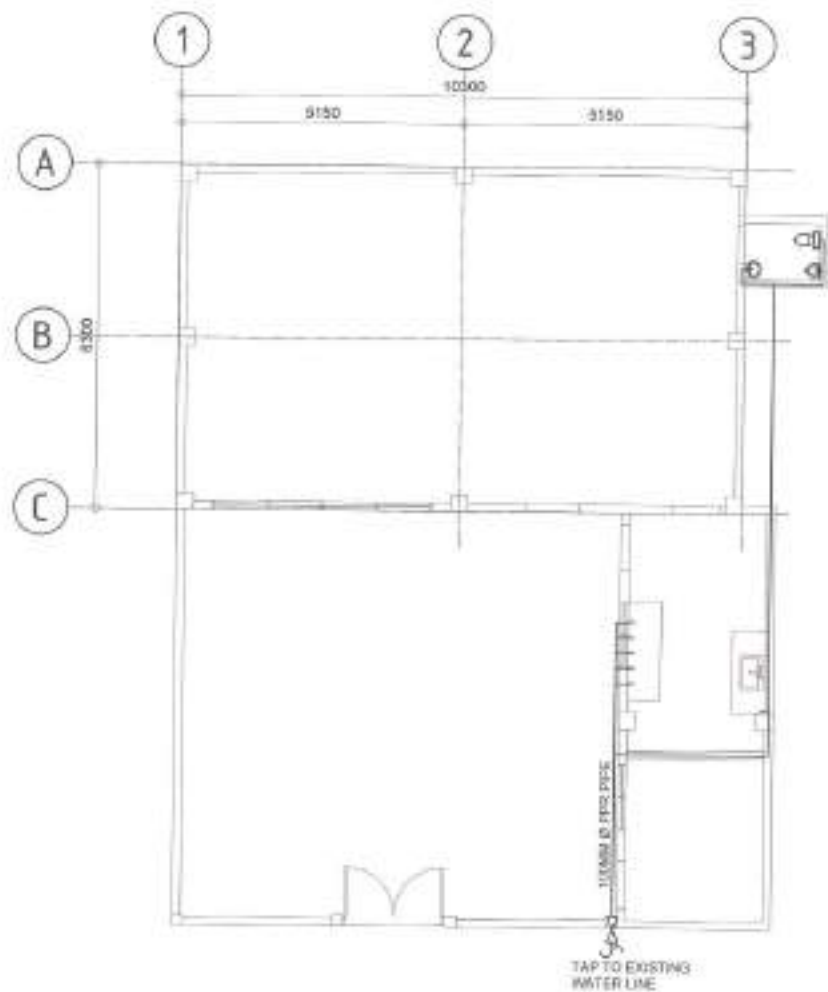
DESIGNED BY: *[Signature]*
DATE: 08/20/2021
CHECKED BY: *[Signature]*
REVISION NO.:
SUBMITTED BY: *[Signature]*
ENGR. LEO S. DEL ROSARIO
HEAD, PLUMBING PROGRAM AND OFFICE

RECOMMENDED APPROVAL:
[Signature]
ENGR. EDGAR R. VERZOSA, JR.
OIC, CITY ENGINEERING DEPARTMENT

APPROVED BY:
[Signature]
HON. MA. JOSEFINA G. BELMONTE
CITY ENGINEER

SHEET CONTENT:
GENERAL NOTES,
LEGENDS AND SYMBOLS,
GREASE TRAP DETAIL

SHEET NO.:
PL-01
07/10




NOTE:
1. PLUMBING FIXTURES TO BE REPLACED

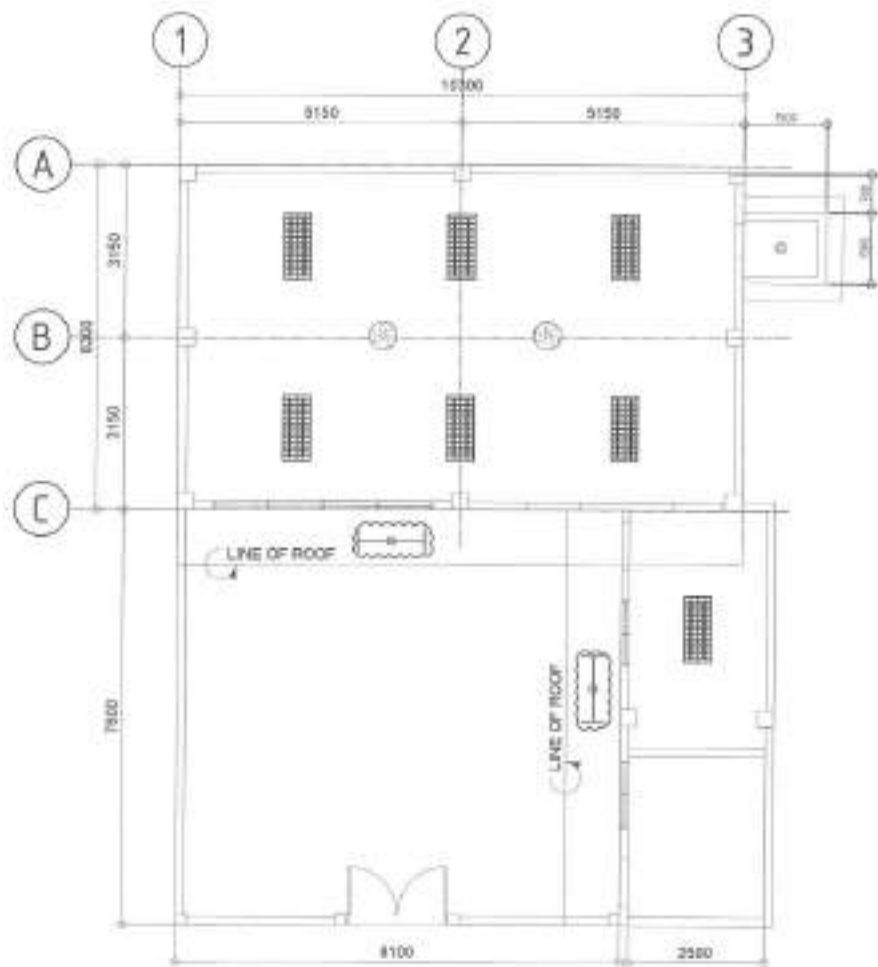
1 WATER LINE LAYOUT

SCALE: NTS.

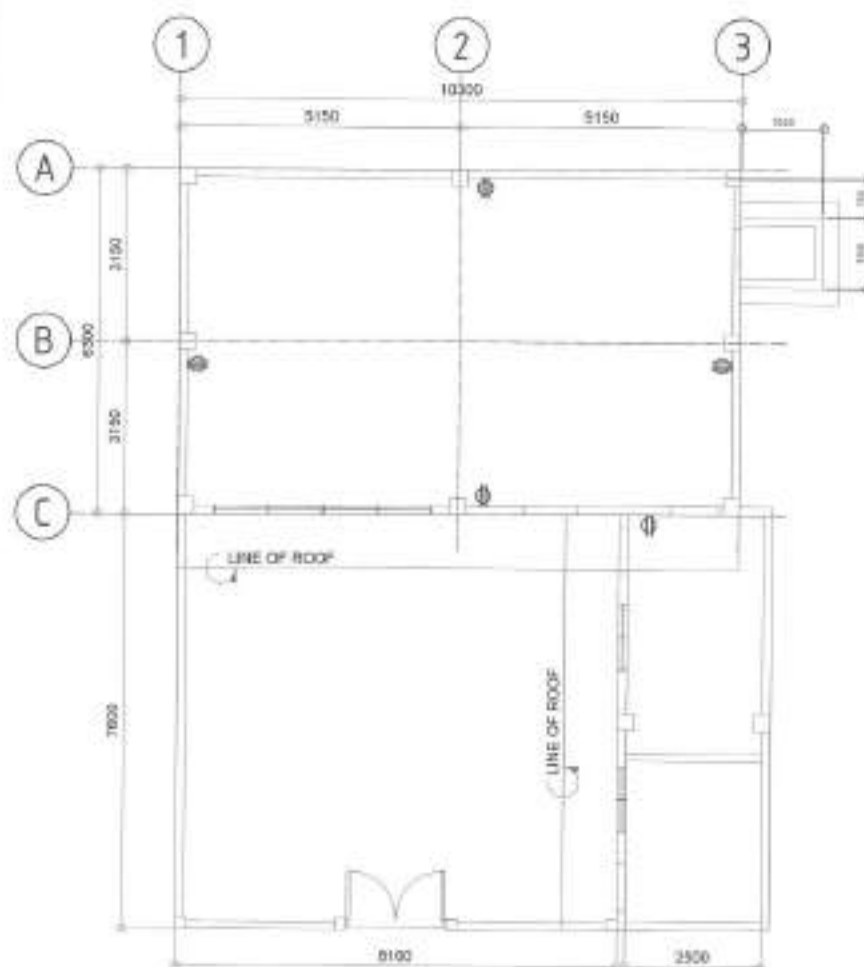
2 SANITARY LINE LAYOUT

SCALE: NTS.

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DRAWN BY: <i>EM</i>	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER	DATE: 08/20/21	<i>[Signature]</i>	<i>[Signature]</i>		WATER LINE LAYOUT SANITARY LINE LAYOUT	PL-02
	LOCATION: DRY, BARANGAL DISTRICT 3, QUEZON CITY	CHECKED BY: <i>JM</i>	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING AND PROGRAM DIVISION	ENGR. WILLIAM R. VERZOSA, JR. DIC, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR		08/10
	REVISION NO.:						



NOTE:
1. REPLACEMENT OF LIGHTING FIXTURES AND SWITCHES



NOTE:
1. REPLACEMENT OF CONVENIENCE OUTLETS AND ADU OUTLET

1 LIGHTING LAYOUT

SCALE NTS.

2 POWER LAYOUT

SCALE NTS.



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF
IBAYO DAY CARE CENTER**

LOCATION:
BPOV, BAGBAG, DISTRICT I, QUEZON CITY

DRAWN BY: *LM*
DATE: 06/28/21
CHECKED BY: *ML*
REVISION NO.:

ENGR. LEON S. DEL ROSARIO
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:
ENGR. ISAAC R. VERZOSA, JR.
SEC. CHIEF, ENGINEERING DEPARTMENT

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTÉ
CITY MAYOR

SHEET CONTENT:
LIGHTING LAYOUT
POWER LAYOUT

SHEET NO.

EL-02
10/10

GENERAL NOTES:

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCK, POWER AND TELEPHONE UTILITY COMPANY.
2. THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER, FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK.
3. ALL BUNDLED BRANCH CIRCUITS SHALL BE IN TWO CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE BE SUPPORTED BY CONDUIT SLAMPS EVERY 100MM CENTER.
4. ALL WIRES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS. BUNDLING OF ALL PULLBOVES SHALL BE COMPLETED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. PRIOR TO FABRICATION, LOCATION OF PULLBOVES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE "AS BUILT" PLAN.
5. ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 220V.
6. PROVIDE GROUND/Fault CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFCI" ON THE PLAN.
7. ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED.
8. UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

- RECEPTACLE OUTLET - 300 MM AFF. (100MM ABOVE WORKING SURFACE)
- TELEPHONE OUTLET - 280 MM AFF.
- GATEY OUTLET - 280 MM AFF.
- LIGHTING SWITCH - 1400 MM AFF.
- PANELBOARD - 1700 MM AFF.

9. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL REQUIREMENTS AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.
10. ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED.
11. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BRING OUT AN OVERSIGHT OF THE PROJECT BUT DO NOT NECESSARILY INDICATE DIMENSIONS, ACTUAL LOCATIONS, LEVEL AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ASSESSMENT AT THE JOB SITE AS LOCATION, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
12. ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFOREWORK.
13. ALL LIGHTING AND COMMERCIAL OUTLET CIRCUITS SHALL BE 5.0 SQ. MM. THINWALL COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 2.5 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

- LINE 1 - RED
- LINE 2 - YELLOW
- NEUTRAL - WHITE
- GROUND - GREEN

14. RINGS, WIRE, BATTERIES, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:
 MAXIMUM WIDTH OF THE HEAVY SURFACE STEEL
 UP TO INCLUDING 152.40 MM GA 16 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
 OVER 152.40 MM BUT NOT OVER 457.36 GA 16 PAINTED WITH METAL PRIMER GPOXY AND TOPCOAT
 OVER 457.36 MM BUT NOT OVER 762.00 GA 12 PAINTED WITH METAL PRIMER GPOXY AND TOPCOAT
 OVER 762.00 MM GA 10 PAINTED WITH METAL PRIMER GPOXY AND TOPCOAT
15. ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULL-TIME LICENSED ELECTRICIAN, ENGINEER, AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY POWER WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY PROTECTED.
16. TYPE OF SERVICE ENTRANCE SHALL BE THREE PHASE, TWO WIRE PLUS GROUND, 80 AMP, 200V AC NOMINAL.
17. CONDUITS IN NO CASE SHALL THERE BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD MADE BY USING HYDRAULIC BENDERS. MINIMUM BENDING RADII MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
18. UPON COMPLETION OF ELECTRICAL CONSTRUCTION/WORK, ISOLATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUDING OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT REPRESENTATIVE. THE INSULATION RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 0.2 OHM. CONDUCTANCE (SPURIOUS RESISTANCE) SHALL NOT EXCEED 2 OHM.

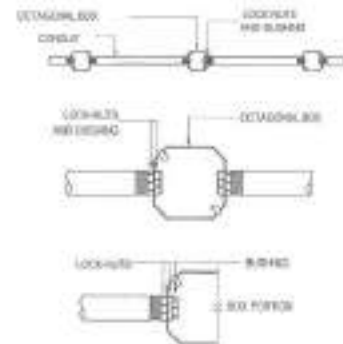
- SINGLE GANG SWITCH (FOR REPLACEMENT)
- TWO GANG SWITCH (FOR REPLACEMENT)
- TWO GANG THREE-WAY SWITCH (FOR REPLACEMENT)
- E27 RECEPTACLE WITH LED BULB (EXISTING)
- E27 RECEPTACLE WITH LED BULB (FOR REPLACEMENT)
- ROUND PINLIGHT (FOR REPLACEMENT)
- 1.20M LED TUBE LIGHT (EXISTING)
- TOFFER TYPE WITH 1X18W LED TUBE LIGHT (FOR REPLACEMENT)
- TOFFER TYPE WITH 2X18W LED TUBE LIGHT (FOR REPLACEMENT)
- ⊕ ADDITIONAL CEILING FAN
- ⊕ GFCI OUTLET (FOR REPLACEMENT)
- ⊕ 2 SETS OF DUPLEX CONVENIENCE OUTLET (FOR REPLACEMENT)
- ⊕ 1 SET OF DUPLEX CONVENIENCE OUTLET (FOR REPLACEMENT)
- ⊕ ACU OUTLET (ADDITIONAL)

2 LEGEND & SYMBOLS

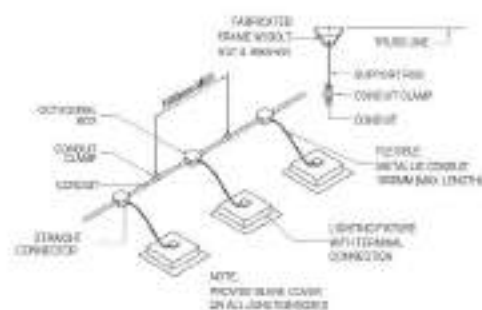
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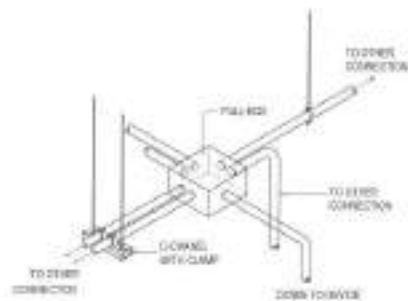
BENDING RADIUS DETAIL



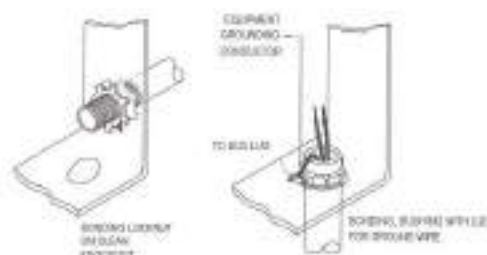
SPOT DETAIL OF CONDUIT RUN AND BOX



CONDUIT RUN FOR LIGHTING DISTRIBUTION IN ONE CIRCUIT (FOR EXPOSED OR INSIDE DROP-CEILING INSTALLATION)



PROPER CONDUIT LAYOUT IN METAL BOX



NOTE: CONNECTION OF THREADED RINGS WITH CONDUIT OR OTHER METAL CONDUIT TO A THREADED RING OR FLANGE CONNECTION TO BE A BONDING CONNECTION.

BONDED RACEWAY TERMINATION FOR SHEET METAL

1 GENERAL NOTES

SCALE NTS

3 MISCELLANEOUS DETAILS

SCALE NTS



Republic of the Philippines
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER

LOCATION:
BKVY. BANGSANG, DISTRICT 5, QUEZON CITY

DRAWN BY: *[Signature]*
DATE: 06/24/2021
CHECKED BY: *[Signature]*
REASON NO.:

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING AND DESIGN DIVISION

RECOMMENDING APPROVAL:
[Signature]
ENGR. EMMAN R. VERZOSA, JR.
CH. CITY ENGINEERING DEPARTMENT

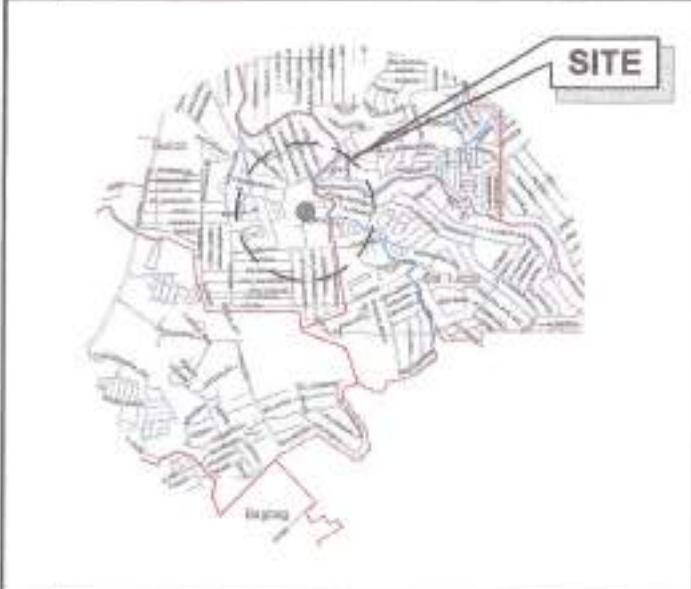
APPROVED BY:
[Signature]
HON. MA. JOSEFINA G. BELMORTE
CITY MAYOR

SHEET CONTENT:
GENERAL NOTES AND SYMBOLS MISCELLANEOUS DETAILS

SHEET NO.:
EL-01
09/10



2 LOCATION MAP SCALE: NTS



3 VICINITY MAP SCALE: NTS



1 SITE DEVELOPMENT PLAN SCALE: 1:100M

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ARCHITECTURAL

AR-01	SITE DEVELOPMENT PLAN LOCATION MAP VICINITY MAP
AR-02	EXISTING FLOOR PLAN PROPOSED FLOOR PLAN
AR-03	REFLECTED CEILING PLAN ROOF PLAN
AR-04	FRONT ELEVATION LEFT SIDE ELEVATION RIGHT SIDE ELEVATION TYPICAL FENCE DETAILS LETTERING DETAILS
AR-05	KEYWAY COUNTER TOP DETAILS COUNTER TOP DETAIL
AR-06	SCHEDULE OF DOORS & WINDOWS

STRUCTURAL

ST-01	GENERAL NOTES COLUMN & FOOTING DETAILS FOUNDATION PLAN
ST-02	ROOF FRAMING PLAN RAFTER DETAILS

PLUMBING

PL-01	GENERAL NOTES & LEGENDS GROUND FLOOR WATERLINE LAYOUT
PL-02	SANITARY LAYOUT GREASE TRAP DETAILS

ELECTRICAL

EL-01	GENERAL NOTES LEGEND & SYMBOLS CONNECTION DETAILS
EL-02	EXISTING LIGHTING LAYOUT EXISTING POWER LAYOUT
EL-03	PROPOSED LIGHTING LAYOUT PROPOSED POWER LAYOUT

MECHANICAL

ME-01	GENERAL NOTES AND LEGENDS SCHEDULE OF EQUIPMENTS GROUND FLOOR EQUIPMENT LAYOUT
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Republic of the Philippines
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF POCC
(HOLY TRINITY) DAY CARE CENTER**

LOCATION:
BRGY. CALLES, DISTRICT 8, MARICOR CITY

DESIGNED BY:
DATE: 6.22.2021

CHECKED BY: [Signature]

REVISION NO.:

SUBMITTED BY:
[Signature]

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PREPARATION DIVISION

RECORDING APPROVAL:
[Signature]

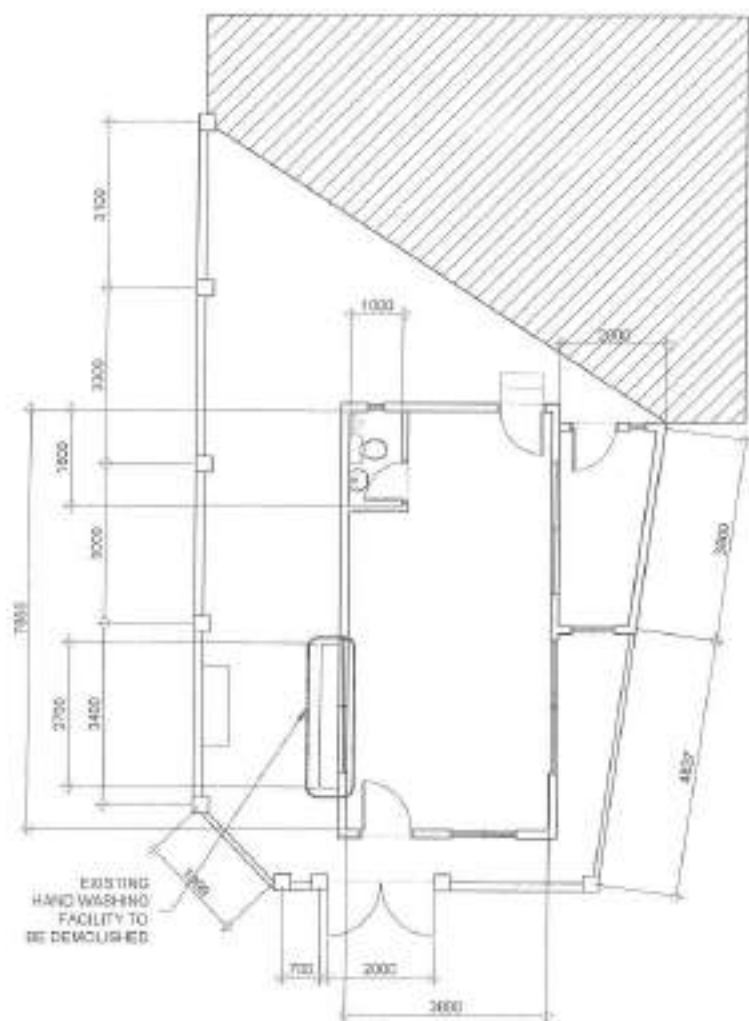
ENGR. MAGNOLIA R. VERZOSA, JR.
SEC. CITY ENGINEERING DEPARTMENT

APPROVED BY:
[Signature]

HON. MA. JOSEFINA O. BELMONTE
CITY MAYOR, QUEZON CITY

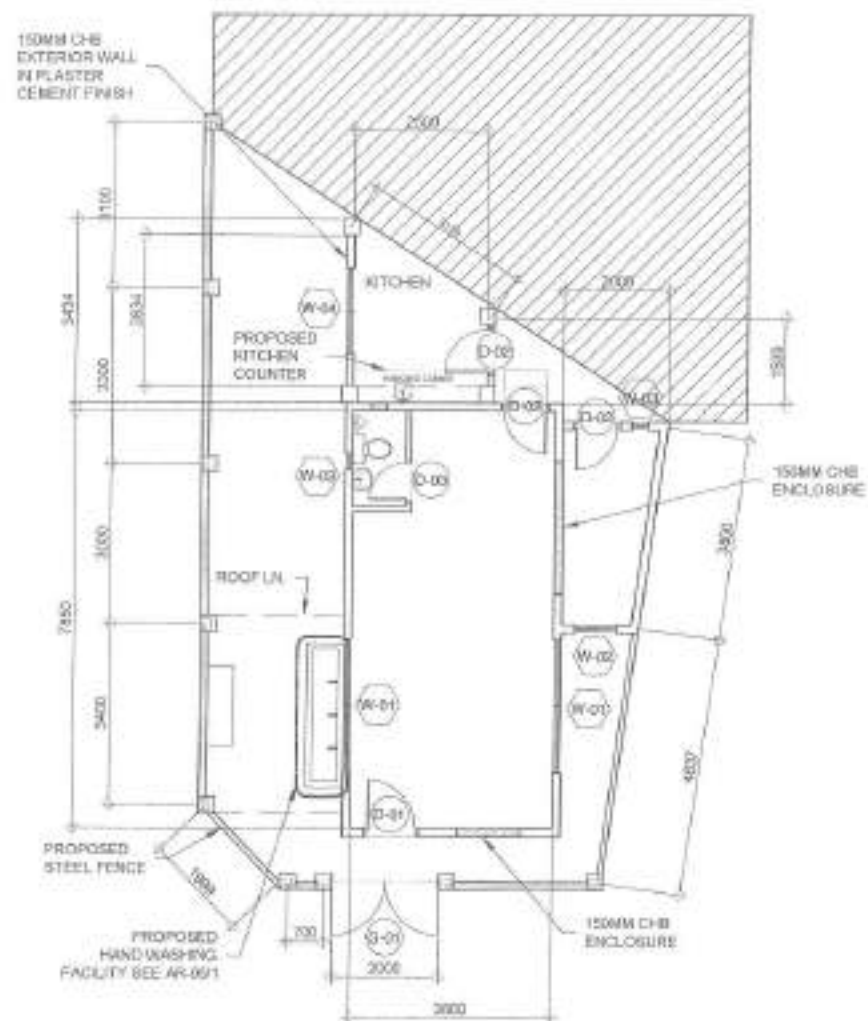
SHEET ORIENT:
SITE DEVELOPMENT PLAN
LOCATION MAP
VICINITY MAP

SHEET NO:
AR-01
01/14



1 EXISTING FLOOR PLAN

SCALE: 1:100A



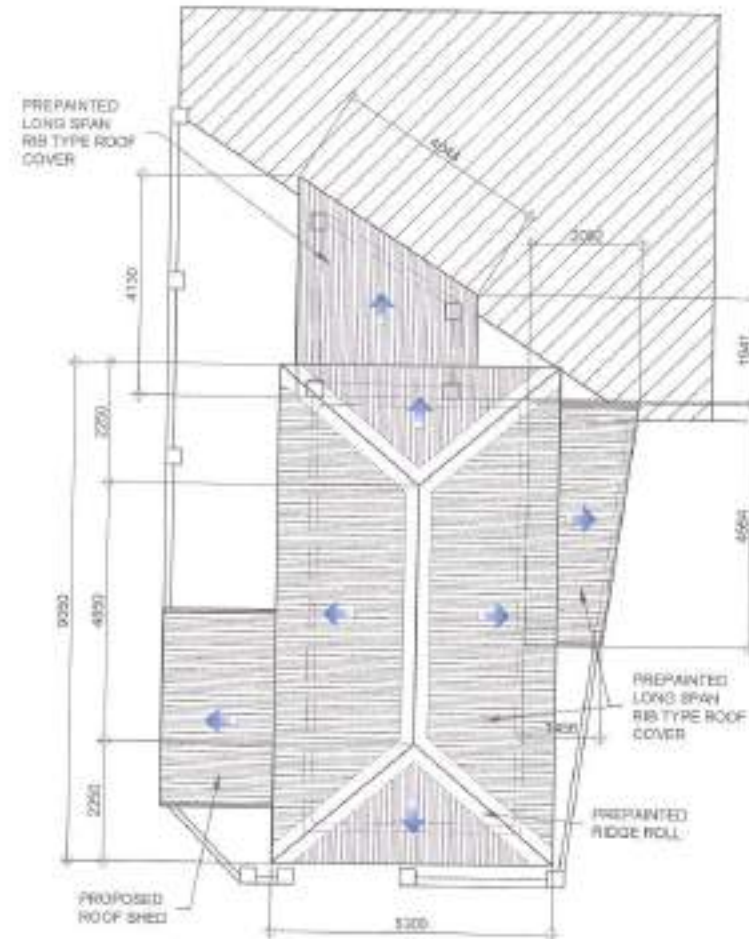
2 PROPOSED FLOOR PLAN

SCALE: 1:100M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	DESIGNED BY:	RECOMMENDED APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
PROPOSED REHABILITATION OF POCC (HOLY TRINITY) DAY CARE CENTER	DATE: 4.26.2021	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMS DIVISION	ENGR. JOSEPH R. VERUZGA, JR. D.C.E.P. (REGISTERED ENGINEER)	HON. MA. JOSEFINA O. BELMONTE CITY MANG. OFFICER (CMO)	EXISTING FLOOR PLAN PROPOSED FLOOR PLAN	AR-02 02/14
LOCATION: BNDY BLVD. DISTRICT 6, QUEZON CITY	REVISION NO.:					



1 REFLECTED CEILING PLAN

SCALE: 1:100M

2 ROOF PLAN

SCALE: 1:500M



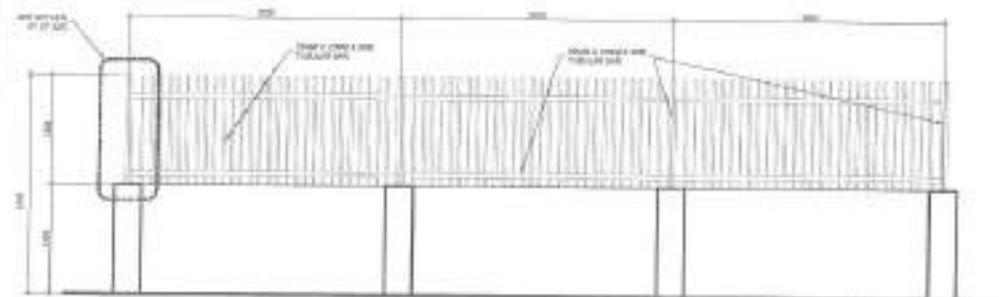
Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE	DESIGNED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	SHEET CONTENT	SHEET NO.
PROPOSED REHABILITATION OF POGC (HOLY TRINITY) DAY CARE CENTER	DATE: 1/20/21	CHECKED BY: JM	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING PROGRAM DIVISION	ENGR. MARGAM R. VERZOSA, JR. DCO, PLANNING PROGRAM DIVISION	HON. MA. JOSEFINA G. BELMONTTE CITY MAYOR, QUEZON CITY	REFLECTED CEILING PLAN ROOF PLAN
LOCATION: BNGY. BRILLON, DISTRICT 3, QUEZON CITY	REVISION NO.					AR-03 03 14



1 FRONT ELEVATION

SCALE: 1:100M.



4 TYPICAL FENCE DETAILS

SCALE: 1:100M.



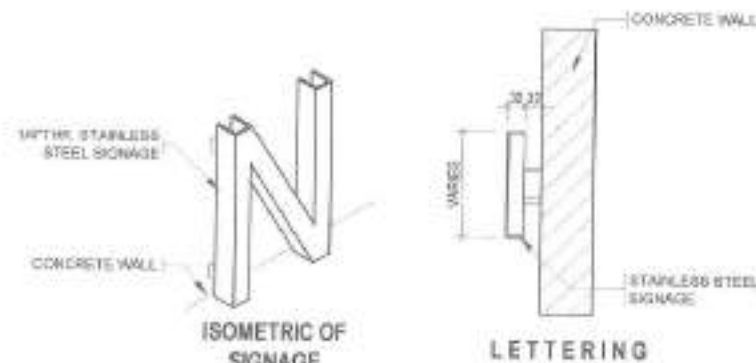
2 LEFT SIDE ELEVATION

SCALE: 1:100M.



3 RIGHT SIDE ELEVATION

SCALE: 1:100M.



5 LETTERING DETAILS

SCALE: 1:30M.



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	PROPOSED REHABILITATION OF PCCC (HOLY TRINITY) DAY CARE CENTER
LOCATION:	BRGY. 843004, DISTRICT 5, QUEZON CITY

DRAWN BY:	<i>[Signature]</i>
DATE:	9/20/2021
CHECKED BY:	<i>[Signature]</i>
REVISION NO.:	

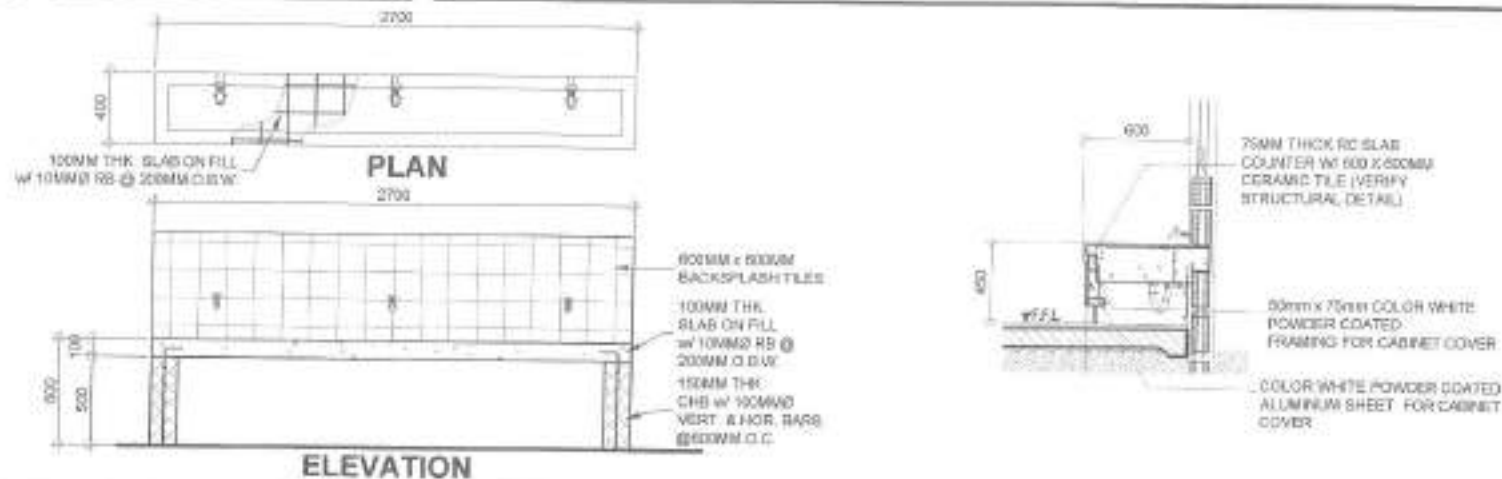
SUBMITTED BY:	<i>[Signature]</i>
ENGR. LEO S. DEL ROSARIO	MEMBER, PROFESSIONAL ENGINEERING BOARD

RECOMMENDING APPROVAL:	<i>[Signature]</i>
ENGR. JOSEMI R. VERZOSA, JR.	INC. REGISTERED ENGINEER

APPROVED BY:	<i>[Signature]</i>
ENGR. MA. JOSEFINA G. BELMONTE	CITY ENGINEER

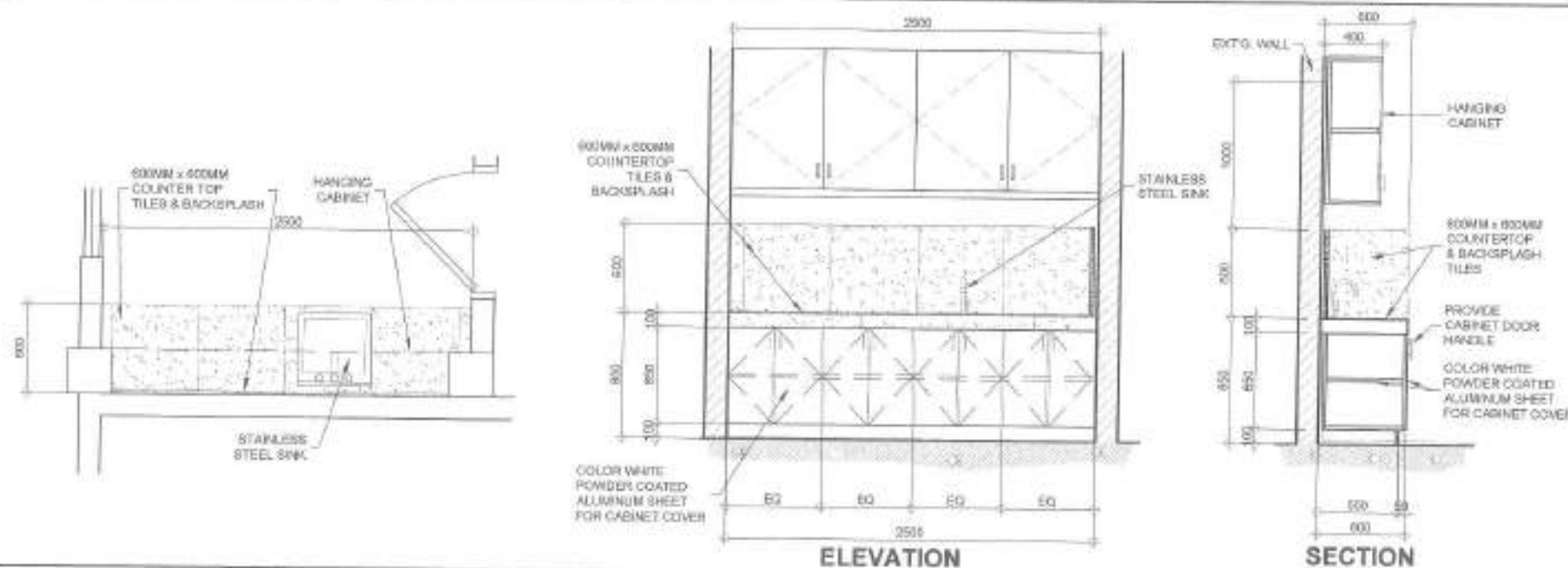
SHEET CONTENT:	FRONT ELEVATION LEFT SIDE ELEVATION RIGHT SIDE ELEVATION TYPICAL FENCE DETAILS LETTERING DETAILS
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SHEET NO.:	AR-04 04/14
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1 KIDDY COUNTERTOP DETAILS

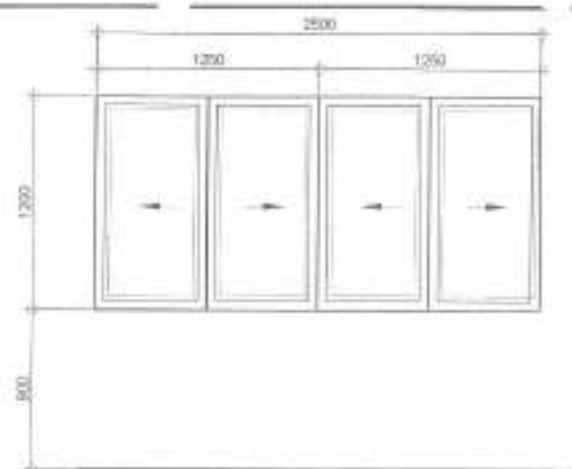
SCALE: 1:20X



2 COUNTERTOP DETAILS

SCALE: 1:100X

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DESIGNED BY:	REVISION NO.:	RECOMMENDING OFFICIAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.	
	PROPOSED REHABILITATION OF POCC (HOLY TRINITY) DAY CARE CENTER	DATE: 1/28/2021	ENGINEER:	ENGR. LEO S. DEL ROSARIO HEALTH, TRAINING & PROGRAMMING DIVISION	ENGR. IRVING R. VERZOSA, JR. D.C. (LAP. 000000000000000000)	HON. MA. JOSEFINA G. BELMONTÉ CITY MAYOR, QUEZON CITY	HANGING CABINET DETAIL COUNTERTOP DETAIL SINK INSTALLATION	AR-05 05/14
	LOCATION: BEGT. 58.200, DISTRICT 5, QUEZON CITY							



W-1

SETS:	2 SET
LOCATION:	TOILET
TYPE:	2-UNITS SLIDING-TYPE WINDOW



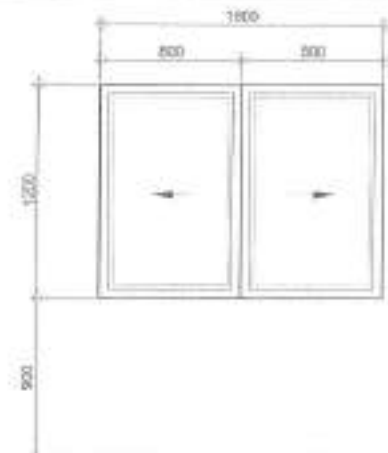
W-2

SETS:	1 SET
LOCATION:	TOILET
TYPE:	2-UNITS SLIDING-TYPE WINDOW



W-3

SETS:	2 SET
LOCATION:	TOILET
TYPE:	2-UNITS SLIDING-TYPE WINDOW



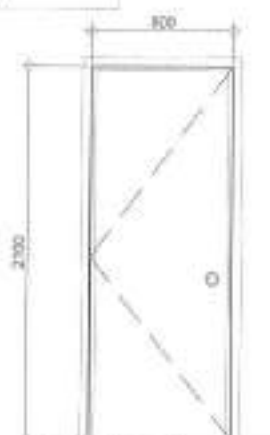
W-4

SETS:	1 SET
LOCATION:	TOILET
TYPE:	2-UNITS SLIDING-TYPE WINDOW



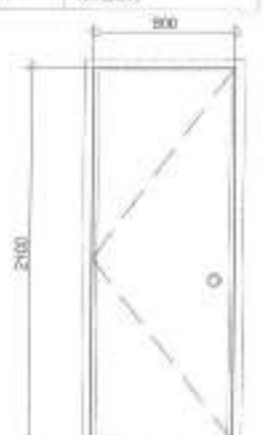
D-1

SETS:	1 SET
LOCATION:	ENTRANCE
TYPE:	FLUSH TYPE DOOR



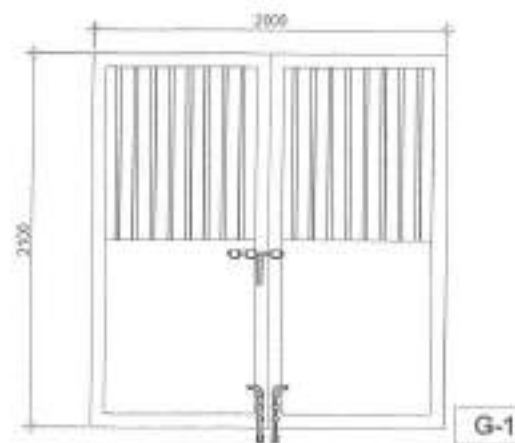
D-2

SETS:	3 SETS
LOCATION:	SERVICE DOOR
TYPE:	FLUSH TYPE DOOR



D-3

SETS:	1 SET
LOCATION:	TOILET
TYPE:	FLUSH TYPE DOOR



G-1

SETS:	1 SET
LOCATION:	ENTRANCE GATE
TYPE:	10mm x 75mm x 4mm TUBULAR BAR (MAIN FRAME), 25mm x 25mm x 3mm TUBULAR BAR, BARREL BOLT, HINGES AND FOOT BOLT

3 SCHEDULE OF WINDOWS, DOORS & GATE

SCALE: 1:30M



Republic of the Philippines
Lungsod ng Cebu
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DESIGNED BY:	SUBMITTED BY:	RECOMMENDED APPROVAL:	APPROVED BY:	DRAWN BY:	SHEET NO.
PROPOSED REHABILITATION OF POGG (HOLY TRINITY) DAY CARE CENTER	DATE: 3/8/2021	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING PROGRAMS DIVISION	ENGR. JOSEPH R. VERDESA, JR. CITY ENGINEER	ENGR. MA. JOSEFINA G. BELMONTE CITY ENGINEER	SCHEDULE OF WINDOWS, DOORS & GATE	AR-06
LOCATION: BAY, BEASO, DISTRICTS, CEBU CITY	CHECKED BY:	REVISIONS:				06/14

GENERAL

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CHECKS AGAINST THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CHECKS AGAINST THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CHECKS AGAINST THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CHECKS AGAINST THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CHECKS AGAINST THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

CONCRETE & REINFORCEMENT

1. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
2. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

LOCATION	STRENGTH	MIN. SIZE OF AGGREGATE	MIN. SLAB
1. SLAB ON GRADE	28 MPa (4050 PSI)	19 (3/4) IN.	100 MM
2. WALL, COLUMN, BEAM, FOOTING	28 MPa (4050 PSI)	19 (3/4) IN.	100 MM
3. SLAB ON GRADE	28 MPa (4050 PSI)	19 (3/4) IN.	100 MM
4. SLAB ON GRADE	28 MPa (4050 PSI)	19 (3/4) IN.	100 MM

3. ALL REINFORCEMENT SHALL BE OF A MINIMUM STRENGTH OF 415 MPa (60,000 PSI) UNLESS OTHERWISE SPECIFIED.
4. ALL REINFORCEMENT SHALL BE OF A MINIMUM STRENGTH OF 415 MPa (60,000 PSI) UNLESS OTHERWISE SPECIFIED.

CONCRETE CLASSIFICATION	MIN. THICKNESS
1. CONCRETE CLASSIFICATION	100 MM
2. CONCRETE CLASSIFICATION	100 MM
3. CONCRETE CLASSIFICATION	100 MM
4. CONCRETE CLASSIFICATION	100 MM

5. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
6. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

7. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
8. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

9. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
10. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

11. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
12. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

13. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
14. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

15. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
16. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

17. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
18. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

19. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
20. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

21. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
22. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

23. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
24. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

25. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
26. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

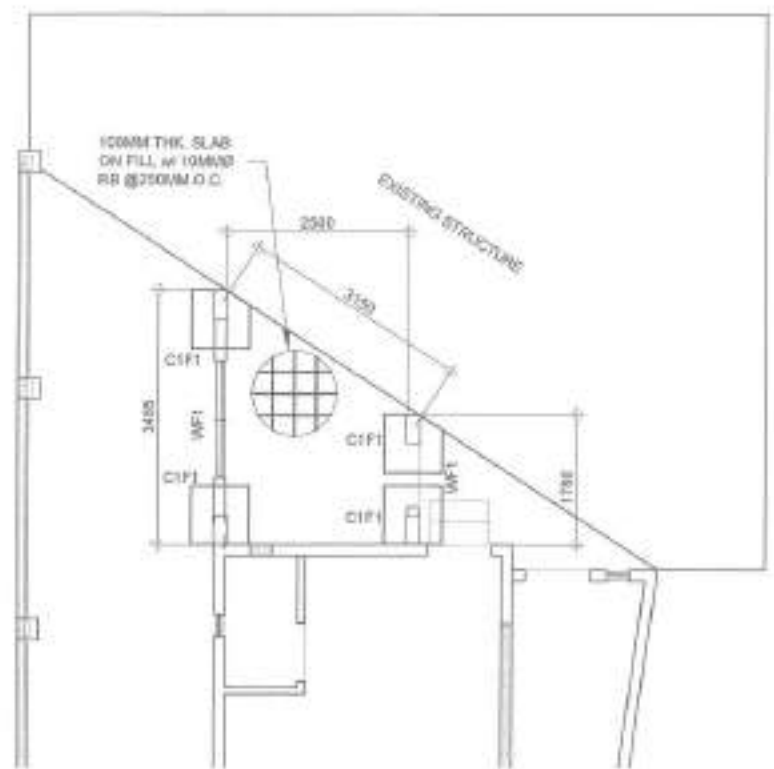
27. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
28. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

29. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
30. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

31. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
32. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.

33. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
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35. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.
36. ALL CONCRETE SHALL BE OF A MINIMUM STRENGTH OF 28 MPa (4050 PSI) UNLESS OTHERWISE SPECIFIED.



1 GENERAL NOTES

2 COLUMN & FOOTING DETAILS

SCALE: NTS

3 ROOF FRAMING PLAN

SCALE: 1:100M

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED REHABILITATION OF PCCC
(HOLY TRINITY) DAY CARE CENTER

LOCATION:
BRGY. GLACE, DISTRICT 6, QUEZON CITY

ISSUED BY:
DATE: 8.18.2021

DESIGNED BY:

REVISIONS:

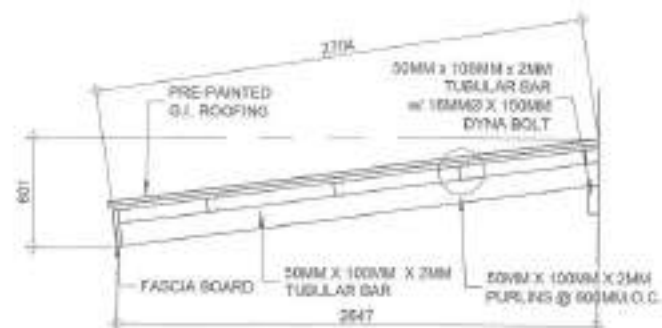
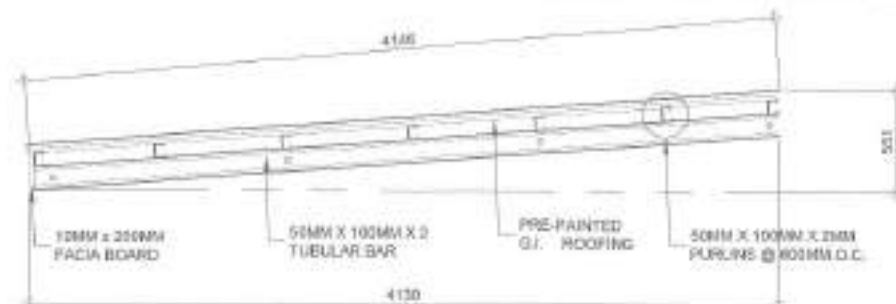
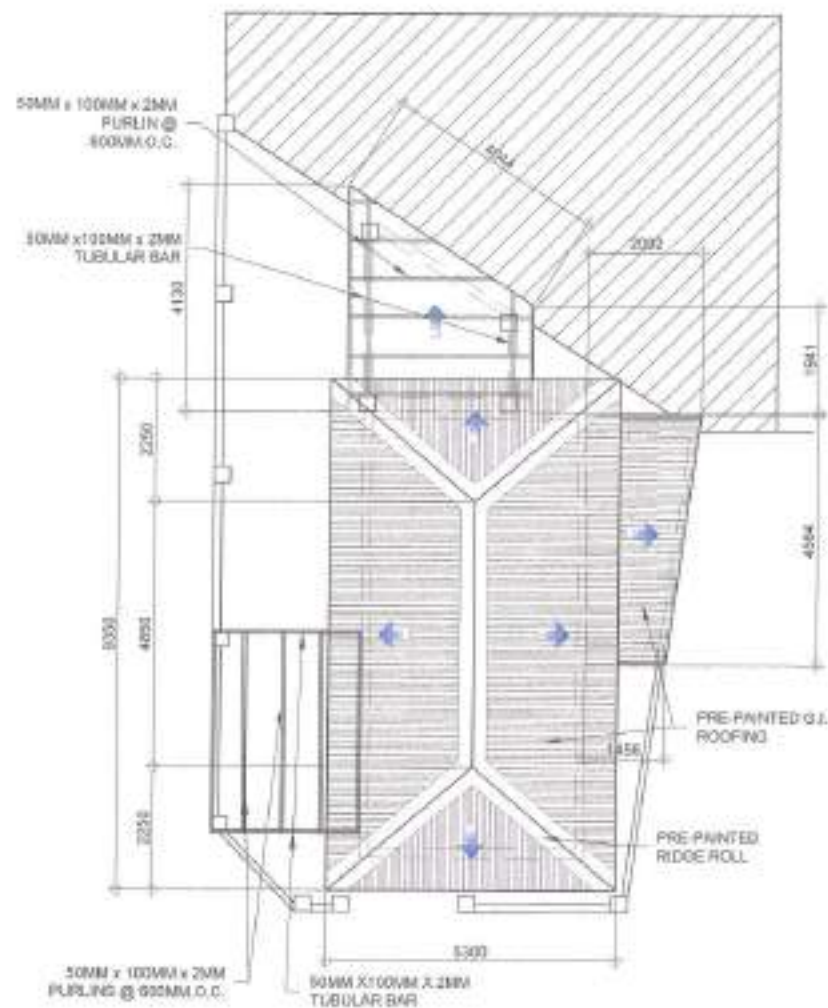
APPROVED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROJECT MANAGEMENT

RECOMMENDING APPROVAL:
ENGR. RICHARD R. VERZOSA, JR.
CH. CITY ENGINEERING DEPARTMENT

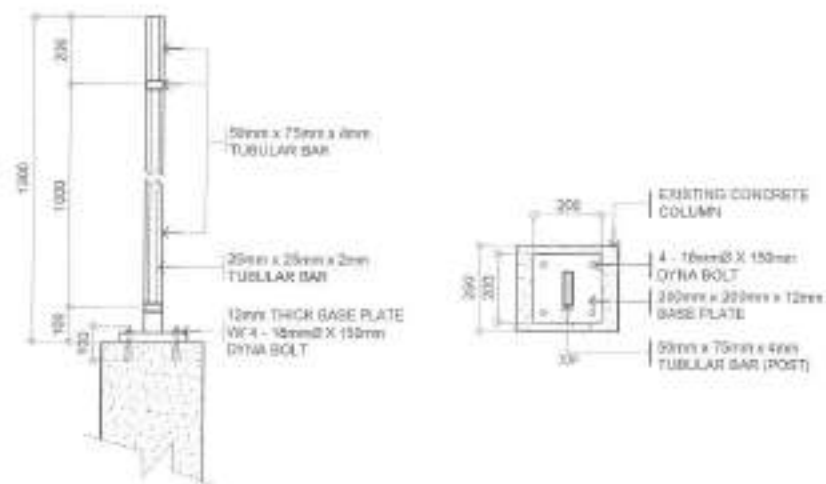
APPROVED BY:
HOW. MA. JOSEFINA G. BELMONTE
CITY ENGINEER, QUEZON CITY

SHEET CONTENT:
FOUNDATION PLAN
ROOF FRAMING PLAN

SHEET NO:
ST-01
07/14



2 RAFTER DETAILS



1 ROOF FRAMING PLAN

SCALE: 1:100M

3 PERIMETER FENCE CONNECTION DETAIL

SCALE: 1:20M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE	DESIGNER/TEAM	DATE	CHECKED BY	REVISION NO.	SUBMITTED BY	REVISIONS APPROVAL	APPROVED BY	SHEET NO./TOT	SHEET NO.
PROPOSED REHABILITATION OF POCC (HOLY TRINITY) DAY CARE CENTER		4.28.2021			ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISABEÑA R. VERZOSA, JR. CE, CIVIL ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTÉ CITY MAYOR, QUEZON CITY	ROOF FRAMING DETAILS RAFTER DETAILS PERIMETER FENCE CONNECTION DETAIL	ST-02 08/14

1. All plumbing work and materials and workmanship shall conform to the provisions of the laws, rules and regulations of the Philippines and the rules and regulations of local, state and national plumbing codes and standards, and the rules and regulations of local, state and national plumbing codes and standards.

2. The plumbing layout shall be in accordance with the approved and checked-up final plans submitted herewith as provided. It shall be the contractor's responsibility to show the actual dimensions of the pipes and fixtures in the drawing set of the (DWG) and refer to the same as such when installed. Any change in the plumbing layout shall require a change order.

3. The plumbing contractor shall verify the existing conditions of the site and shall coordinate the work with the existing.

4. Pipes shall not be embedded in or placed in contact with structural concrete slabs.

5. Minimum slope for horizontal sewer lines shall be 1% and for other horizontal lines.

6. Proposed plumbing fixtures shall conform with the actual location, depth and level elevation of all existing plumbing fixtures.

7. Location of fixtures in open and closed areas shall be according to approved plans and specifications.

8. All fixtures shall be vented individually.

9. All pipes and fixtures shall be made of materials which shall be suitable for possible underground water usage. All materials shall be approved by the local health department and shall be subject to tests.

10. All valves and all pipe joints shall be tested with water for 24 hours continuously during construction with 1.5 times the working pressure and shall be subject to tests.

11. Fixtures and their parts shall be tested for water-tightness and shall be subject to tests.

12. All valves and pipes shall be of approved quality and shall be tested for 24 hours continuously at 1.5 times the working pressure.

13. Plumbing fixtures shall be of approved quality and shall be tested for 24 hours continuously at 1.5 times the working pressure.

14. All valves and pipes shall be of approved quality and shall be tested for 24 hours continuously at 1.5 times the working pressure.

15. All materials used in fixtures or parts of fixtures shall be approved by the local health department and shall be subject to tests.

16. All materials used in fixtures or parts of fixtures shall be approved by the local health department and shall be subject to tests.

17. All materials used in fixtures or parts of fixtures shall be approved by the local health department and shall be subject to tests.

18. All materials used in fixtures or parts of fixtures shall be approved by the local health department and shall be subject to tests.

19. All materials used in fixtures or parts of fixtures shall be approved by the local health department and shall be subject to tests.

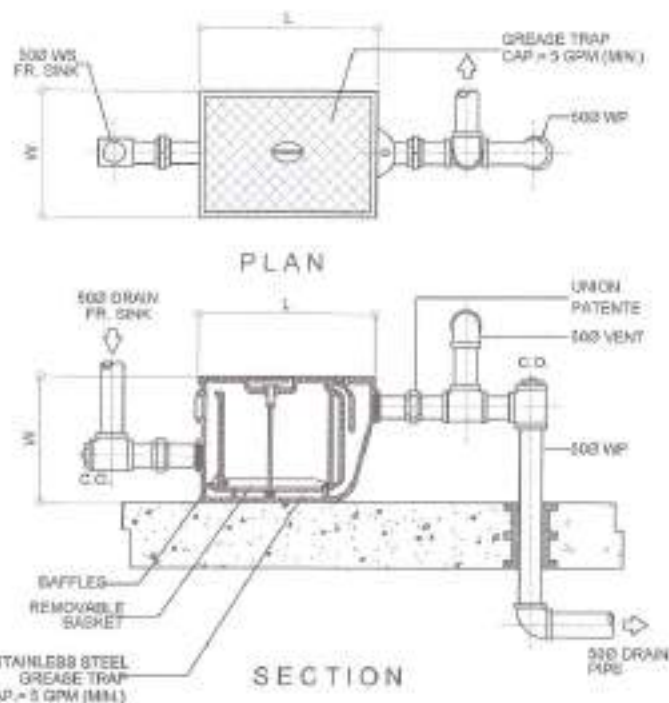
20. All materials used in fixtures or parts of fixtures shall be approved by the local health department and shall be subject to tests.

1. FIXTURES AND OTHER LEGEND

FD	FLOOR DRAIN
RD	ROOF DRAIN
SHD	SHOWER
WC	WATER CLOSET
LAV	LAVATORY
UR	URINAL
KD	KITCHEN SINK
BD	BUILDING DRAIN
DD	DECK DRAIN
CCD	CEILING CLEANOUT
FCD	FLOOR/GROUND CLEANOUT
DS	DOWNSPOUT
Ø	Ø INCH DIAMETER
SHD	SHOWER DRAIN
CB	CATCH BASIN
MH	MANHOLE
→	DIRECTION OF FLOW
⊕	GREASE TRAP

2. SEWER/WASTE AND VENT SYSTEM

— SP / WP	SOL PIPE / WASTE PIPE
— VS / VAC	VENT STACK / VENT AT CEILING
— DP	STORM DRAIN PIPE
⊕ DS	DRAINAGE STACK / DOWNSPOUT
⊕ SVTR	STACK VENT/EXTENDED THROUGH ROOF
⊕ SS	SOIL STACK
⊕ FCO / GCO	FLOOR CLEANOUT / GROUND CLEANOUT
⊕ CCO	CEILING CLEAN-OUT
⊕ SPDR	SUMP PIT DISCHARGE RISER
⊕ SPDP	SUMP PIT DISCHARGE PIPE
⊕ AD/CB	AREA DRAIN/CATCH BASIN
⊕ DD	DECK DRAIN



1 GENERAL NOTES & LEGENDS

2 GREASE TRAP DETAILS

SCALE: NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	PROPOSED REHABILITATION OF POCO (HOLY TRINITY) DAY CARE CENTER
LOCATION:	850Y, BLAGO, DISTRICT 3, QUEZON CITY

DESIGNED BY:	ENR. LEO S. DEL ROSARIO
CHECKED BY:	
DATE:	5/20/2021
REVISIONS:	

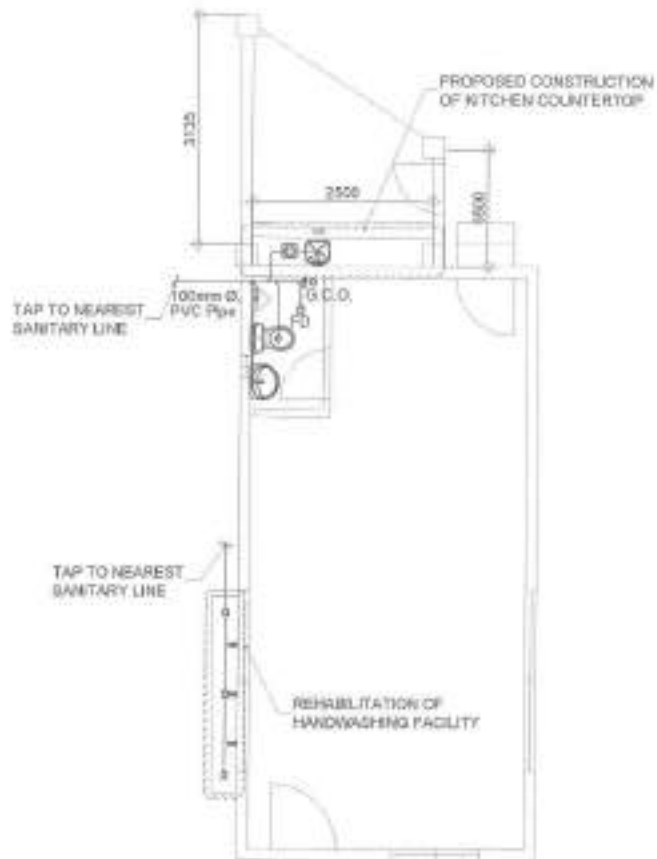
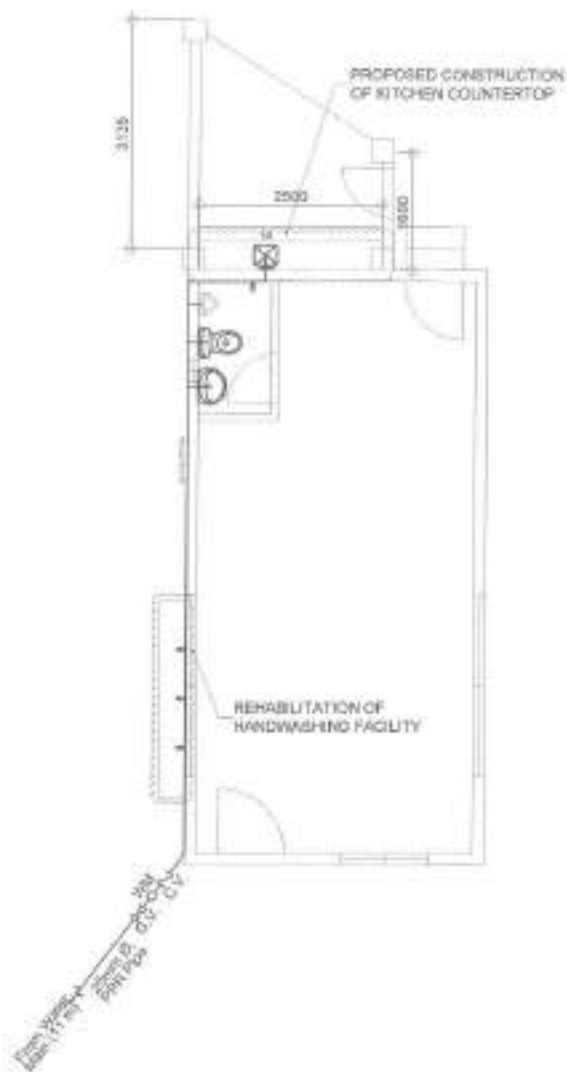
SUBMITTED BY:	ENR. LEO S. DEL ROSARIO
RECOMMENDING APPROVAL:	ENR. LEONARDO R. VERZOSA, JR.
APPROVED BY:	HON. RA. JOSEFINA G. BELMONTÉ

RECOMMENDING APPROVAL:	ENR. LEONARDO R. VERZOSA, JR.
APPROVED BY:	HON. RA. JOSEFINA G. BELMONTÉ

RECOMMENDING APPROVAL:	ENR. LEONARDO R. VERZOSA, JR.
APPROVED BY:	HON. RA. JOSEFINA G. BELMONTÉ

PROJECT CONTENT:	GENERAL NOTES & LEGENDS
PROJECT NO.:	PL-01
DATE:	09/14

PROJECT NO.:	PL-01
DATE:	09/14



1 GROUND FLOOR WATER LINE LAYOUT

SCALE: 1:50 M

2 GROUND FLOOR SANITARY LINE LAYOUT

SCALE: 1:50 M



Rehabilitang Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED REHABILITATION OF POCG
(HOLY TRINITY) DAY CARE CENTER

LOCATION:
BRGY. DELGADO, DISTRICT 3, QUEZON CITY

DRAWN BY:

DATE: 5/8/2021

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:

ENGR. RAFAEL R. VERZOSA, JR.
C.D. CIVIL ENGINEERING DEPARTMENT

APPROVED BY:

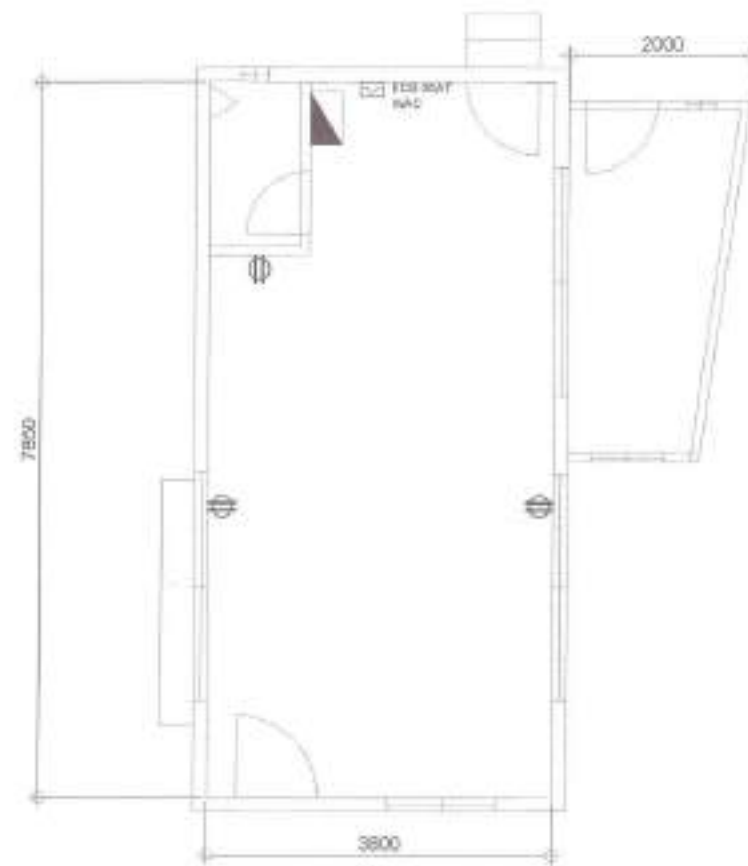
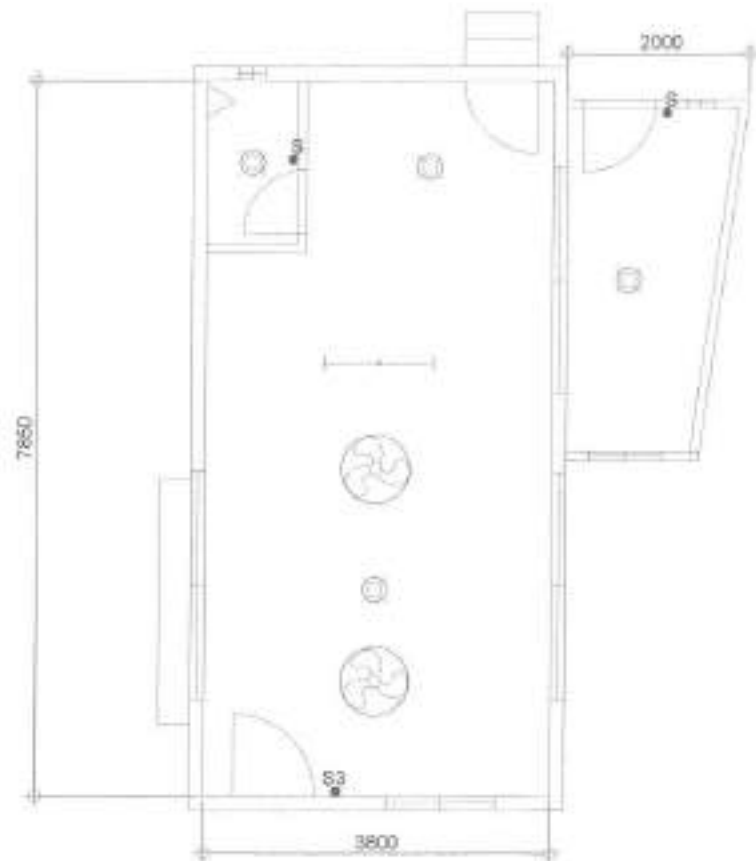
HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR - QUEZON CITY

SHEET CONTENT:

SANITARY LAYOUT
CREASE TRAP
DETAILS

SHEET NO.:

PL-02
10/14



1 EXISTING LIGHTING LAYOUT

SCALE: 1:60 M

2 EXISTING POWER LAYOUT

SCALE: 1:60 M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED REHABILITATION OF POCG
(HOLY TRINITY) DAY CARE CENTER
LOCATION:
BPOV, OLICHO, DISTRICT 8, QUEZON CITY

DRAWN BY:
DATE: 7/26/21
CHECKED BY:
REVISIONS:

SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMS DIVISION

RECOMMENDING APPROVAL:
ENGR. MARVIN R. VERZOSA, JR.
D.C. CITY ENGINEERING DEPARTMENT

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
EPV MAYOR, QUEZON CITY

SHEET CONTENT:
EXISTING LIGHTING
LAYOUT
EXISTING POWER
LAYOUT

SHEET NO.
EL-02
12 14

- ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PRC CODE AND THE RULES AND REGULATIONS OF QUEZON CITY.
- THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS.
- THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER TRADES.
- ALL AIR CONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 65% RH.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURERS CATALOGUE, SPECIFICATIONS, SAMPLES, INCLUDING VIBRATION ISOLATORS BEFORE EXECUTION OF WORK.
- ALL FLOOR SLAB MOUNTED VIBRATING EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS TO PREVENT VIBRATIONS AND NOISE TRANSMISSION.
- EXHAUST FAN SHALL BE PROVIDED WITH SUITABLE FLEXIBLE CONNECTIONS TO DISCHARGE DUCT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AND COMMISSIONING OF THE WHOLE VENTILATION AND AIR CONDITIONING SYSTEM AND INSTALLATION.
- ALL POWER WIRING SHALL BE ELECTRICAL AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL.
- PROVIDE CONTROL WIRING FOR AIR CONDITIONING EQUIPMENT.
- PROVIDE THERMOSTAT FOR ALL INDOOR UNITS / FAN COIL UNITS.
- VERIFY LOCATION OF CONTROLLERS AND SWITCHES ON ELECTRICAL PLANS.
- ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / ADICB.
- PROVIDE GUIDES, HANGERS, AND SUPPLEMENTAL STEEL SUPPORT FOR ALL PIPING, DUCTING AND EQUIPMENTS.
- PROVIDE PIPE SLEEVES FOR ALL PIPING PASSING THRU BUILDING STRUCTURE.
- ALL PIPE DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.

 - EQUIPMENT DESIGNATION

 - REFRIGERANT PIPE

 - WALL MOUNTED INDOOR UNIT

 - WINDOW TYPE AIR CONDITIONER

 - AIR COOLED CONDENSING UNIT

 - ELBOW UP

 - ELBOW DOWN

 - FAN COIL UNIT

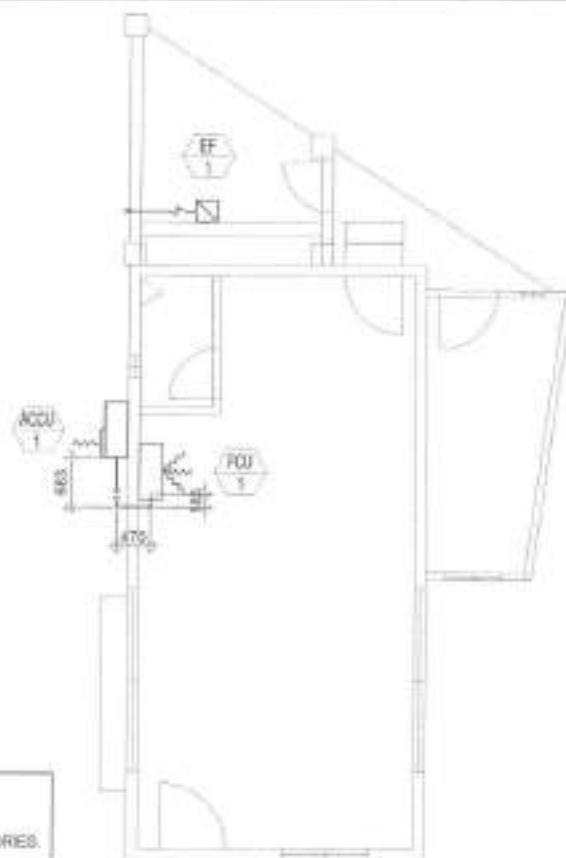
SPLIT TYPE AIR-CONDITIONER AIR-COOLED CONDENSING UNITS

DESIGNATION	TYPE	QUANTITY	COOLING CAPACITY		AIR CIRCULATION	POWER INPUT WATTS	ELECTRICAL SUPPLY			REFRIGERANT FILL		REMARKS	
			HP	KJ/HR			VOLTS	PHASE	HERTZ	LIQUID, kg/m ³	GAS, kg/m ³		
ACU 1	FW 1	WALL MOUNTED	1.5RT	22	6.140	800M	180	220	3	60	R22	1270	REF COIL UNIT SHALL BE SUPPLIED AND INSTALLED

EXHAUST FAN

DESIGNATION	LOCATION	QUANTITY	TYPE	AIR VOLUME CMH	POWER INPUT WATTS	ELECTRICAL SUPPLY			REMARKS
						VOLTS	PHASE	HERTZ	
EF 1	KITCHEN CEILING	1 SET	CEILING MOUNTED	14000	20	220	3	60	FANS SHALL BE EQUIPPED WITH DISCHARGE DUCTS, WINDED GUARDNETS, AND DISCHARGE DUCTS (WITH 90° ELBOW) DOWNWARD AND BESE (FLOW PROHIBITION) (NOTES)

2 SCHEDULE OF EQUIPMENT


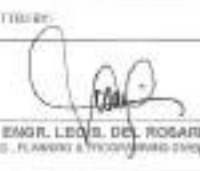




NOTES: EXISTING WINDOW - TYPE ACU SHALL BE REPLACED WITH SPLIT - TYPE ACU, COMPLETE ACCESSORIES.

1 GENERAL NOTES AND LEGENDS

3 GROUND FLOOR EQUIPMENT LAYOUT

SCALE: 1:125 M

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE	DESIGNER	SUBMITTED BY	RECOMMENDED APPROVAL	APPROVED BY	SHEET CONTENT	SHEET NO.
	PROPOSED REHABILITATION OF POCG (HOLY TRINITY) DAY CARE CENTER	DATE: 9/26/2021				GENERAL NOTES LEGENDS & SYMBOLS	ME-01
	LOCATION: BRGY. GUZCO, DISTRICT 8, QUEZON CITY	APPROVED BY	ENGR. LEWIS DEL ROSARIO HEAD, PLANNING & RECORDS DIVISION	ENGR. MAXIMO R. VERZOSA, JR. DIE. CIVIL ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTTE CITY ENGINEER - QUEZON CITY	SCHEDULE OF EQUIPMENT	14/14

THE SITE



1 LOCATION MAP

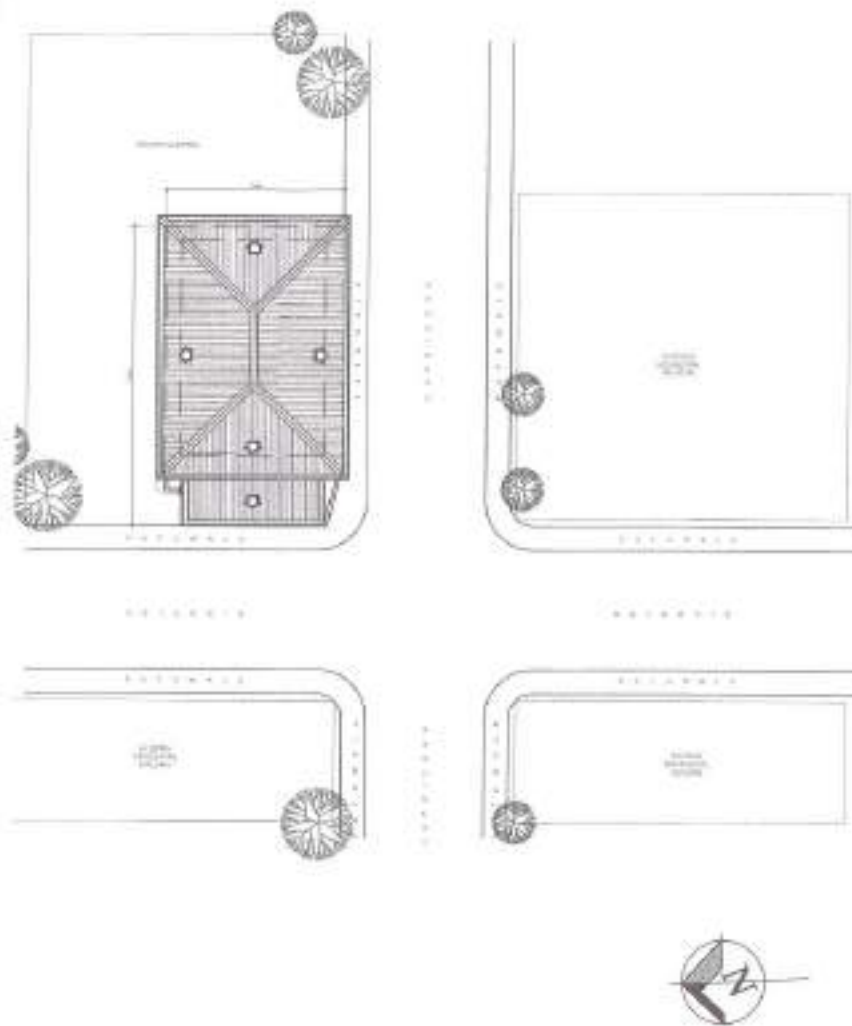
SCALE NTS

THE SITE



2 VICINITY MAP

SCALE NTS



3 SITE DEVELOPMENT PLAN

SCALE NTS

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	REAR ELEVATION
	RIGHT SIDE ELEVATION
	LEFT SIDE ELEVATION
AR-4	SCHEDULE OF DOORS
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Republika ng Pilipinas
Lungsod ng Cebu
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED REHABILITATION OF
REMARVILLE DAY CARE CENTER

LOCATION:

SANAGAY BAGRAL DISTRICT 15, SUCCOR CITY

DRAWN BY:

DATE: 28.12.21

CHECKED BY:

REVISIONS:

DRAFTSMAN:

ENGR. YEO S. DEL ROSARIO

REG. PLANNING PROFESSIONAL

RECOMMENDING OFFICIAL:

ENGR. BALDWIN R. VERZOSA, JR.

C.E. CIVIL ENGINEER (REGISTERED)

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTÉ

CITY MENCH

SHEET CODE/NO:

LOCATION MAP

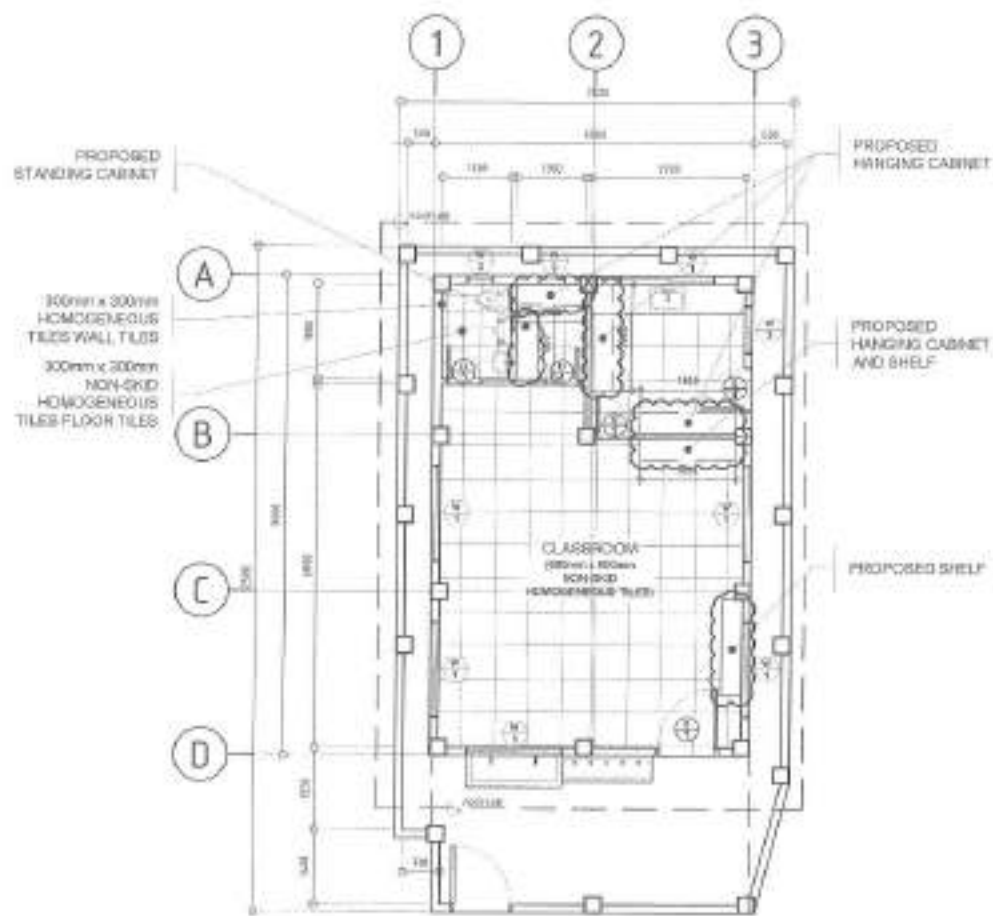
VDC NITY MAP

SITE DEVELOPMENT PLAN

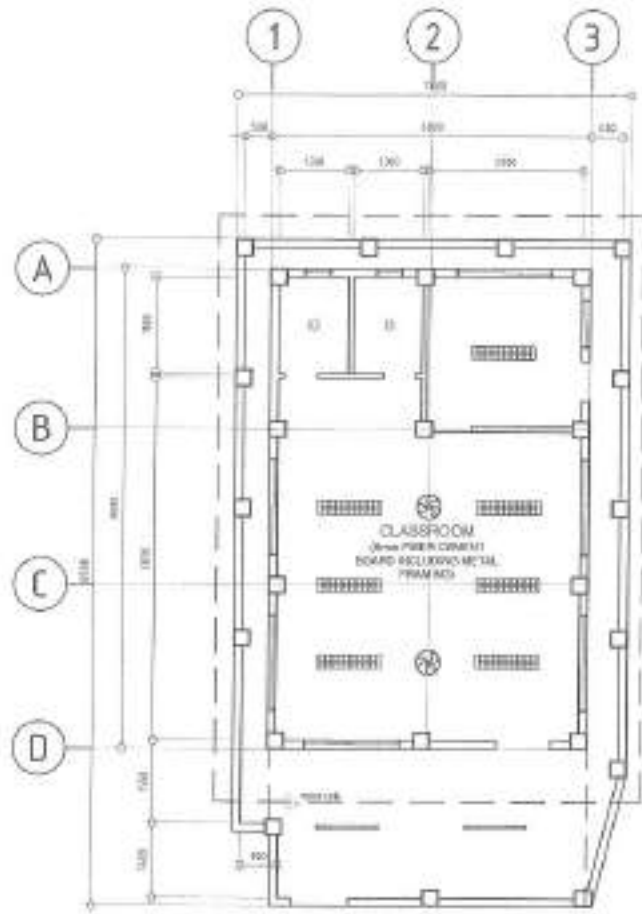
SHEET NO.:

AR-01

01/09



NOTE:
 1. WHOLE STRUCTURE TO BE REPAINTED
 2. DOORS AND WINDOW TO BE REPLACED
 3. PROVISION OF HANGING CABINET, SHELF AND STANDING CABINET



NOTE:
 1. REPLACEMENT OF 20mm THICK FIBER CEMENT BOARD INCLUDING ROOF EAVES

1 GROUND FLOOR PLAN SCALE 1:100M

2 REFLECTED CEILING PLAN SCALE 1:100M

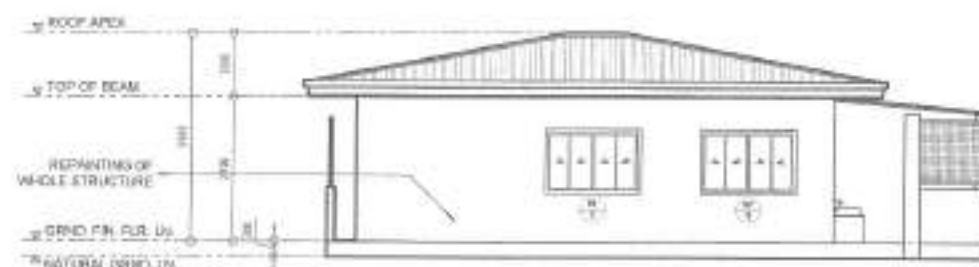
<p>Republic of the Philippines Lungsod ng Cebu CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DRAWN BY:	SUBMITTED:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER	DATE: 06/06/21				GROUND FLOOR PLAN REFLECTED CEILING PLAN	AR-02 02/09
	LOCATION: BAYANGKAY BAZAR, DISTRICT 2, CUBAN CITY	DRAWN BY:	ENGR. LEO S. DEL ROSARIO RUC, PLANNING PROGRAMMING OFFICER	ENGR. ESMERALDO R. VERZOSA, JR. O.C. OF PLANNING OFFICER	HON. MA. JOSEFINA S. BELMONTE CITY ENGINEER		



NOTE
1. PROVISION OF DAY CARE STORAGE

1 FRONT ELEVATION

SCALE 1:100M



3 RIGHT SIDE ELEVATION

SCALE 1:100M



2 REAR ELEVATION

SCALE 1:100M



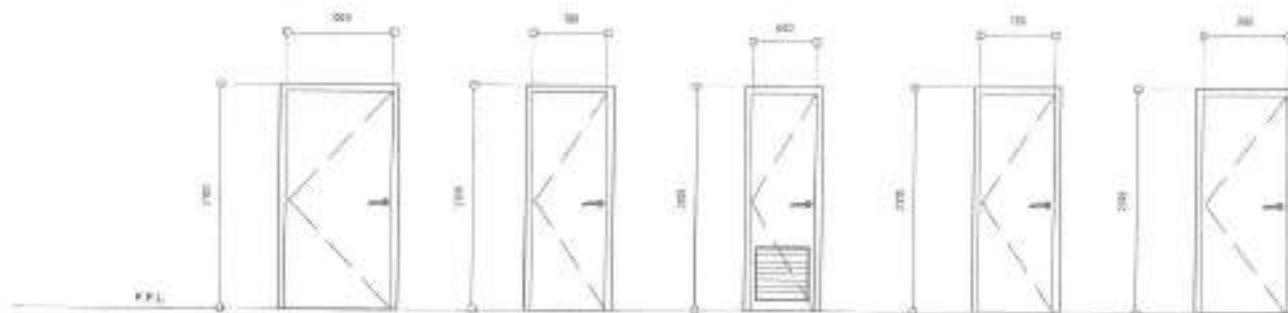
4 LEFT SIDE ELEVATION

SCALE 1:100M

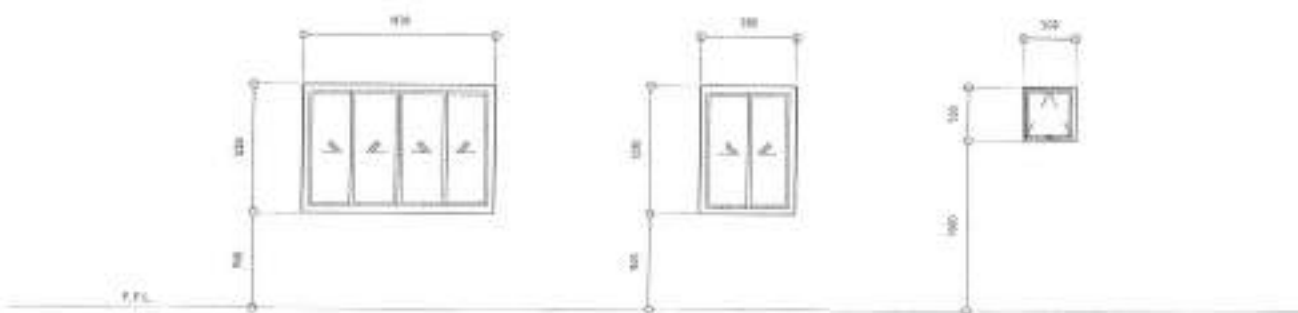


Republika ng Pilipinas
Lungsod ng Cebu
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING OFFICIAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER	DATE: 06/20/21				FRONT ELEVATION REAR ELEVATION RIGHT SIDE ELEVATION LEFT SIDE ELEVATION	AR-03 03/09
LOCATION: BALARANGAY BAHAYAN, DISTRICT 8, TIGAYAN CITY	DESIGNED BY:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING PROGRAM DIVISION	ENGR. ISMAANI R. VERZOSA, JR. CITY ENGINEERING DEPARTMENT	HON. RA. JOSEFINA G. BELMONTE CITY OFFICER		







NAME	⊕	⊕	⊕	⊕	⊕
NO. OF SETS	1	1	1	1	1
DESCRIPTION	FLUSH DOOR	FLUSH DOOR	PTC DOOR WITH LOUVER	FLUSH DOOR	FLUSH DOOR
LOCATION	CLASSROOM	BACK DOOR	TOILET	BACK DOOR	BACK DOOR
REMARKS	TO BE REPLACED	TO BE REPLACED	TO BE REPLACED	TO BE REPLACED	TO BE REPLACED

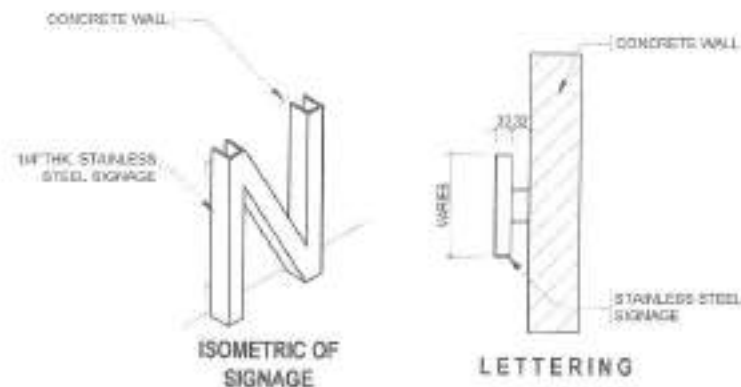
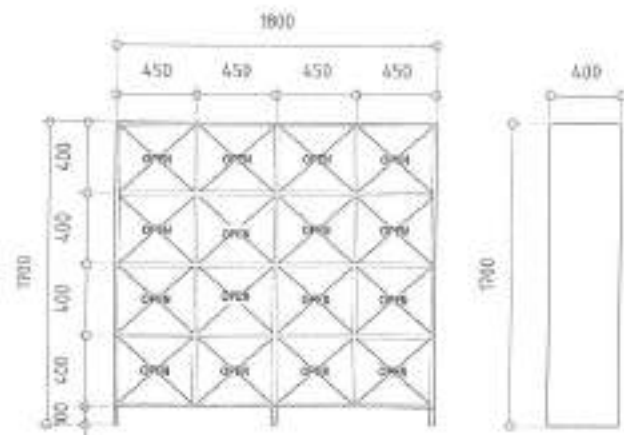


NAME	⊕	⊕	⊕
NO. OF SETS	1	1	1
DESCRIPTION	ALUMINUM FRAME, POWDER COATED SLIDING WINDOW WITH 3mm THK CLEAR GLASS	ALUMINUM FRAME, POWDER COATED SLIDING WINDOW WITH 3mm THK CLEAR GLASS	ALUMINUM FRAME, POWDER COATED AWNING WINDOW WITH 3mm THK CLEAR GLASS
LOCATION	CLASSROOM	CLASSROOM	CLASSROOM
REMARKS	TO BE REPLACED	TO BE REPLACED	TO BE REPLACED

1 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:50M

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	GRANTED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.
	PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER	DATE: 08.30.21				SCHEDULE OF DOORS AND WINDOWS	AR-04
	LOCATION: BARANGAY MAGSAL, DISTRICT 4, QUEZON CITY	REVISIONS:	ENGR. LEY S. DEL ROSARIO HEAD, PLANNING AND MANAGEMENT DIVISION	ENGR. JUAN R. VERZOSA, JR. C.E. CITY ENGINEERING DEPARTMENT	HON. NA. JOSEFINA O. DELWONTE CITY ENGINEER		04/09

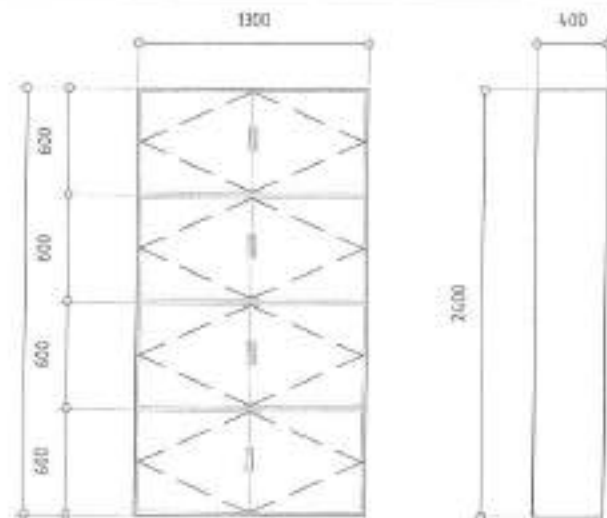
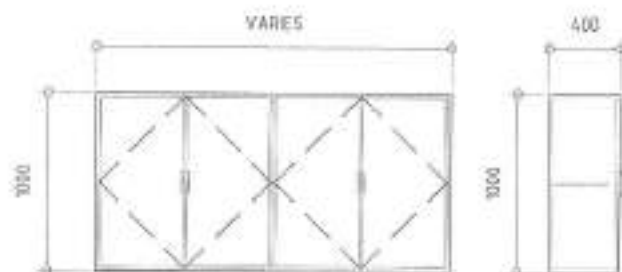


1 SHELF DETAILS

SCALE 1:30M

2 LETTERING DETAILS

SCALE 1/15M



3 HANGING CABINET DETAILS

SCALE 1:30M

4 STANDING CABINET DETAILS

SCALE 1:30M



Republika ng Pilipinas
Lungsod ng Marikina
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DESIGNED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.
PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER ✓	DATE: 08/18/21 CHECKED BY: ✓	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & DESIGN DIVISION	ENGR. MAGNAN R. VERZOSA, JR. D.C. DIV. ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYER	SCHEDULE OF DOORS AND WINDOWS STEEL GATE DETAILS LETTERING DETAILS HANGING CABINET SCALE	AR-05 05/09
LOCATION: BARANGAY BAMBAL, DISTRICT 6, QUEZON CITY	REVISIONS:					

1 All plumbing works and materials indicated herein shall be compliant to the provisions of the latest edition of National Plumbing Code, the rules and regulations of local authorities concerned, the rules and regulations of local utility companies and the provisions of the land developer when and where applicable.

2 The plumbing layout is only diagrammatic; pipes, cleanouts and check valves shall be concealed as much as possible. It is not intended to show the actual dimension of the pipes and fixtures in the drawing but all the pipes and fixtures shall be installed as and where indicated. Any relocation will require proper execution in relation with other trades.

3 The plumbing contractor shall verify all existing utilities at the site and shall coordinate the work with other trades.

4 Pipes shall not be embedded in structural members unless otherwise specified or allowed.

5 Minimum slope for horizontal sewer lines shall be 1% and for drain lines shall be 5%.

6 Proposed plumbing utilities shall conform with the actual location, depth and invert elevation of all existing pipes/utilities.

7 Connection of fixtures to pipes and fittings shall be according to manufacturer's specifications.

8 All floor drains shall be vented individually.

9 All clean out females shall be flush-mounted to wall and shall be provided with polished cover caps. Do not install floor clean outs except at lines on grade and service areas not subject to traffic.

10 All underground G.I. pipes in direct contact with soil shall be provided with two (2) coats of protective tar covering and wrapped with jute cloth thoroughly soaked in tar or asphalt.

11 Provide vent stack and vent pipe thru roof of cast iron service weight as required.

12 All cast iron pipes shall be of approval quality and G.I. pipes for water distribution lines shall be Schedule 40 U.S. standard weight.

13 Provide gate valves to all water supply lines to fixtures.

14 All hot water lines shall be provided with proper insulation where exposed.

15 All individual branches to fixtures or group of fixtures and/or equipments shall be provided with air chambers or capped vertical pipe extensions of dimensions as shown:

H = 450 mm for 19 mm Ø and larger


H = 300 mm for 12 mm Ø and smaller

16 All hose bibbs shall be 19 mm Ø (¾" Ø) unless otherwise indicated.

17 Inlet pipe of septic tank is 50 mm higher than the siphon pipe which is 30 mm higher than the outlet pipe.

18 All plumbing works and manner of construction shall be under the direct supervision of an able and duly licensed Master Plumber or Registered Sanitary Engineer. Any discrepancies found in plan shall be notified to the same person.

I. FIXTURES AND OTHER LEGEND

FD	FLOOR DRAIN
RD	ROOF DRAIN
SHD	SHOWER
WC	WATER CLOSET
LAV	LAVATORY
URI	URINAL
KS	KITCHEN SINK
BD	BUILDING DRAIN
DD	DECK DRAIN
CCO	CEILING CLEANOUT
FCO	FLOOR/GROUND CLEANOUT
DS	DOWNSPOUT
mm	millimeter
Ø	mm DIAMETER
SHD	SHOWER DRAIN
CB	CATCH BASIN
MH	MANHOLE
→	DIRECTION OF FLOW
	GREASE TRAP

	UNION PATENT
	CHECK VALVE
	BUILDING SINKER
	BUILDING DRAIN
	WASTE LINE
	AREA DRAIN/CATCH BASIN
	FLOOR DRAIN
	DIAMETER
	WASTE LINE
	WATER LINE
	GATE VALVE
	DECK DRAIN
	CLEANOUT
	PIPE DOWN
	PIPE UP
	MILLIMETER
	GATE VALVE
	AREA DRAIN/CATCH BASIN
	WATER CLOSET
	LAVATORY
	MANHOLE
	HOSE BIBB
	STORM DRAIN LINE
	VENT LINE
	VENT ABOVE CEILING
	CONCRETE PIPE/RISER/CONC. PIPE
	VENT THRU ROOF
	DIRECTION OF FLOW/SLOPE

1 GENERAL NOTES

SCALE NTS.

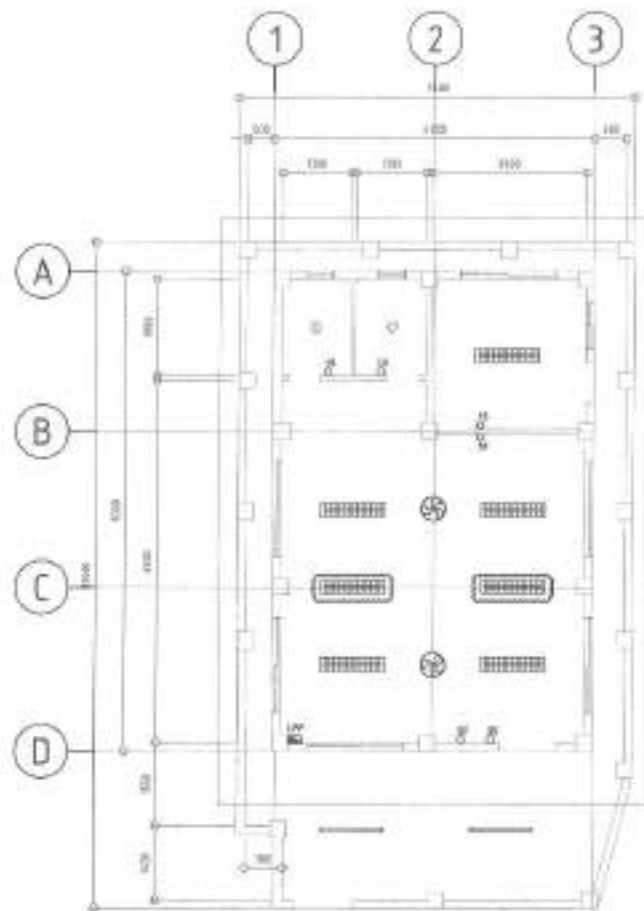
2 LEGEND AND SYMBOLS

SCALE NTS.



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER	DATE: 04/18/21				GENERAL NOTES, LEGEND AND SYMBOLS	PL-01 06/09
LOCATION: BUNYAWAY BARANGAY, DISTRICT 3, QUEZON CITY	CHECKED BY:	ENGR. LEO S. DEL ROSARIO HEAD, PLUMBING PROGRAMMING DIVISION	ENGR. ISMAEL R. VERZOSA, JR. DEC. ENGINEERING DIVISION	HON. MA. JOSEFINA B. BELMONTÉ CITY ENGINEER		

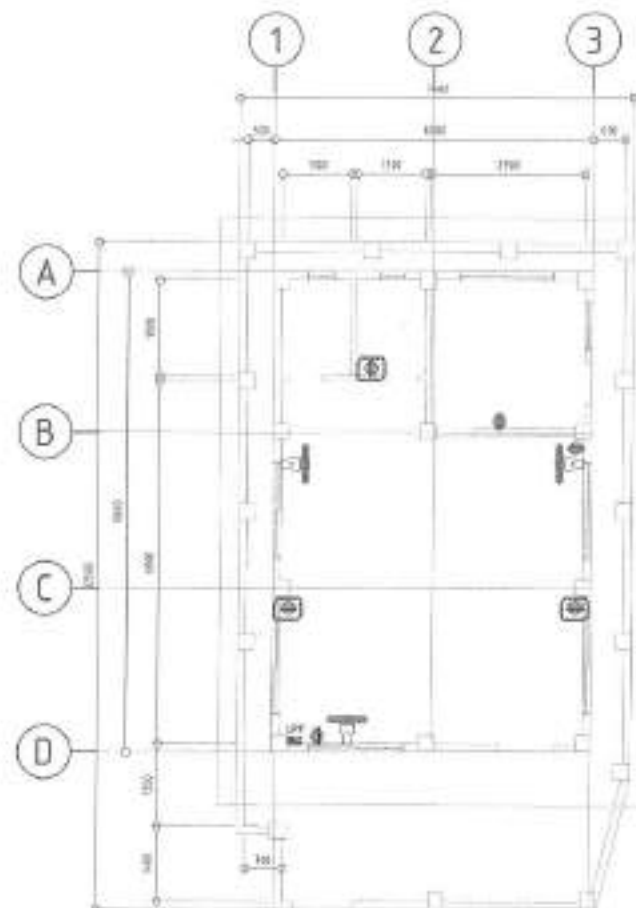


NOTE:

1. REPLACEMENT OF LIGHTING FIXTURES AND SWITCHES
2. REPLACEMENT OF CEILING FAN

1 LIGHTING LAYOUT

SCALE: NTS.



NOTE:

1. REPLACEMENT OF CONVENIENCE OUTLETS AND ACU OUTLET

2 POWER LAYOUT

SCALE: NTS.



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED REHABILITATION OF
REMARVILLE DAY CARE CENTER

LOCATION:

SARANGAY DAGBAG, DISTRICT 2, SUKDEN CITY

DRAWN BY:

DATE: 08/18/21

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

ENGR. JESUS S. DEL ROSARIO
PROJ. ENGINEER & PROJECT MANAGER

ENGR. JOSEPH R. VERZOSA, JR.
DC, CITY ENGINEERING DEPARTMENT

RECOMMENDING OFFICIAL:

ENGR. JOSEPH R. VERZOSA, JR.
DC, CITY ENGINEERING DEPARTMENT

ENGR. JOSEPH R. VERZOSA, JR.
DC, CITY ENGINEERING DEPARTMENT

APPROVED BY:

NON. MA. JOSEFINA G. BELMONTE
CITY ENGINEER

NON. MA. JOSEFINA G. BELMONTE
CITY ENGINEER

SHEET CONTENT:

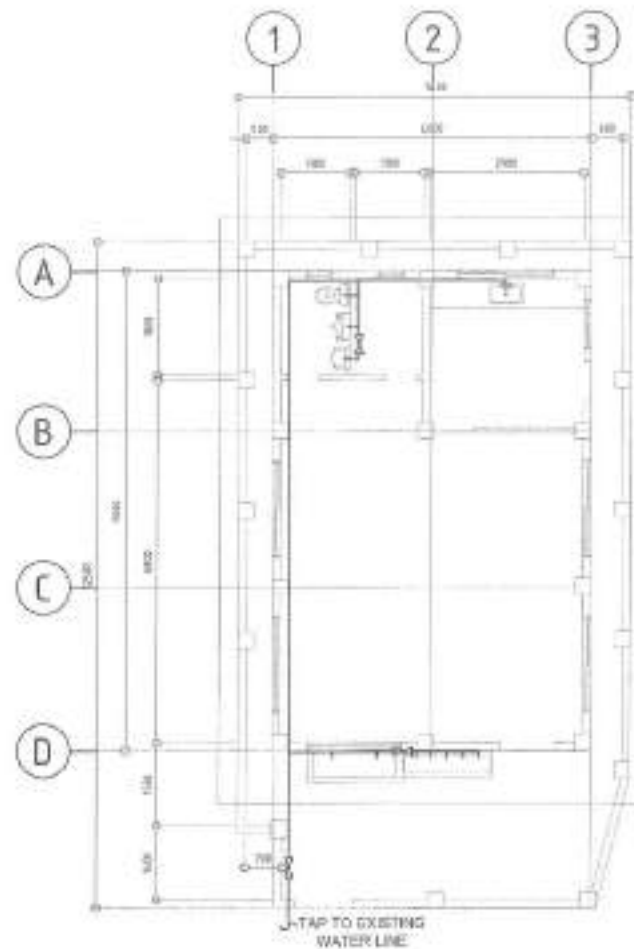
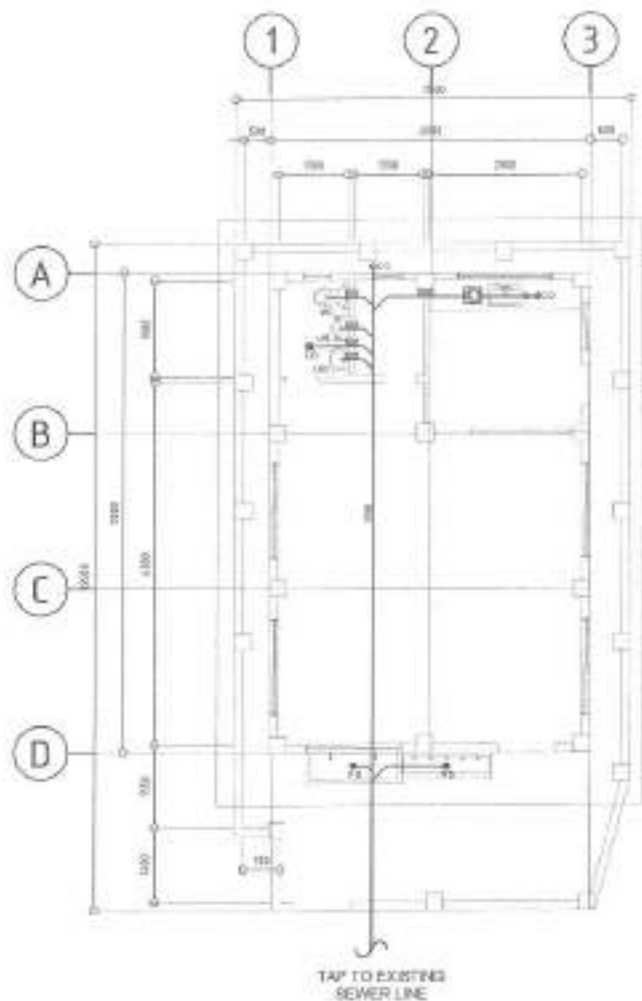
LIGHTING LAYOUT
POWER LAYOUT

LIGHTING LAYOUT
POWER LAYOUT

SHEET NO.:

EL-02

09/09



- NOTE
1. PLUMBING FIXTURES TO BE REPLACED
 2. HAND WASHING AND KITCHEN FAUCETS TO BE REPLACED

1 | SANITARY LINE LAYOUT

SCALE 1:100M

2 | WATER LINE LAYOUT

SCALE 1:20M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED REHABILITATION OF
REMARVILLE DAY CARE CENTER**

COUNTER:
BARANGAY SIGUAL DISTRICT 3, QUEZON CITY

DRAWN BY: *[Signature]*
DATE: 08/18/17
CHECKED BY: *[Signature]*
REVISION NO.:

DESIGNED BY:
[Signature]
ENGR. LEO S. DEL ROSARIO
HEAD, PLUMBING PROFESSIONAL

RECOMMENDING OFFICER:
[Signature]
ENGR. JOSEAN R. VERZOSA, JR.
DEPUTY CHIEF ENGINEER

APPROVED BY:
[Signature]
HON. MA. JOSEFINA G. BELMONTÉ
CITY ENGINEER

SHEET CONTENT:
WATER LINE LAYOUT
SANITARY LAYOUT

SHEET NO.
PL-02
07/09

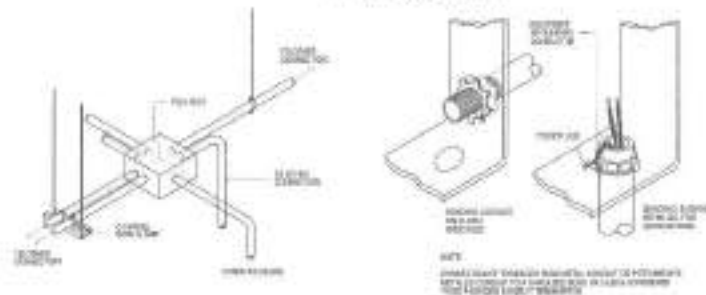
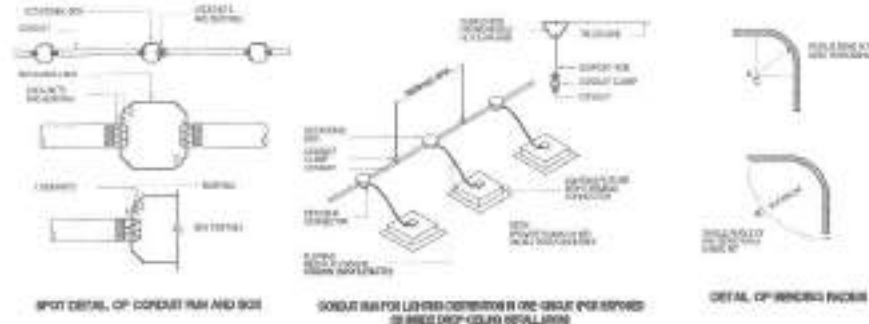
- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER, FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK.
- ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE WELDED SUPPORTED BY CONDUIT CLAMPS EVERY 100 MILLIMETERS.
- PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THERE ARE NOT INDICATED ON THE PLANS. SIZING OF ALL PULLBOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. PRIOR TO FABRICATION, LOCATION OF PULLBOXES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE "AS-BUILT" PLAN.
- ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 200V.
- PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS RATED 100% ON THE RUA.
- ALL METALLIC CONDUITS, CABLES AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

RECEPTACLE OUTLET - 300 MM AFF., 100MM ABOVE WORKING SURFACE.
TELEPHONE OUTLET - 300 MM AFF.
GATE OUTLET - 300 MM AFF.
LIGHTING SWITCH - 1400 MM AFF.
PANELBOARD - 1800 MM AFF.

- REFER TO MECHANICAL PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL SEQUENCES AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.
- ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY, BRAND NAME AS SPECIFIED.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLINE/DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE DESCRIBED ACTUAL LOCATIONS, LEVEL AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUESTED TO MAKE SUCH ADJUSTMENT AT THE JOBSITE AS LOCATION, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DECISION.
- ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL BE 3/8 IN. MIN. THICKNESS COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 18 AWG. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

LINE 1 - RED
LINE 2 - YELLOW
NEUTRAL - WHITE
GROUND - GREEN

- BOXES, WIRE, OUTLETS, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:
MAXIMUM WIDTH OF THE WIDEST OUTFACE STEEL:
UP TO INCLUDING 700 MM GA 18 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
OVER 700 MM BUT NOT OVER 800 MM GA 14 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
OVER 800 MM BUT NOT OVER 900 MM GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
OVER 900 MM GA 10 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULL-TIME LICENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PCAB. WORKS SHALL BE NEATLY PLACED, PROPERLY FINISHED AND PROPERLY FINISHED.
- TYPE OF SERVICE ENTRANCE SHALL BE SINGLE PHASE, THREE WIRE PLUS GROUND, 100/200V, 230V AC VOMINAL.
- CONDUITS IN NO CASE SHALL THERE BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BEND IN ANY ONE RUN. ALL CORNER BENDS SHALL BE FIELD MADE BY USING HYDRAULIC BENDERS. MINIMUM BENDING RADIUS MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORM APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT REPRESENTATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 5 OHMS. COMMUNICATION GROUNDING RESISTANCE SHALL NOT EXCEED 3 OHMS.



2 MISCELLANEOUS DETAILS

SCALE NTS

☐	SINGLE GANG SWITCH (EXISTING)	☐	CEILING FAN (FOR REPLACEMENT)
☐	THREE GANG SWITCH (FOR REPLACEMENT)	☐	CEILING FAN (EXISTING)
☐	SWITCH (FAN)	☐	DUPLEX CONVENIENCE OUTLET (FOR REPLACEMENT)
☐	E27 RECEPTACLE WITH LED BULB (FOR REPLACEMENT)	☐	DUPLEX CONVENIENCE OUTLET (ADDITIONAL)
☐	TROFFER TYPE WITH 1X18W LED TUBE LIGHT (EXISTING)	☐	PANEL BOARD
☐	TROFFER TYPE WITH 1X18W LED TUBE LIGHT (ADDITIONAL)	☐	T5, 28WATTS LED TUBE LIGHT (ADDITIONAL)

1 GENERAL NOTES

SCALE NTS

3 LEGEND AND SYMBOLS

SCALE NTS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DESIGNED BY:	QUANTITY:	RECOMMENDED APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER	DATE: 08/10/21	CHECKED BY:	ENGR. LEDES DEL ROSARIO HEAD, PLUMBING & TROFFER DIVISION	ENGR. ISAGAN R. VERZOSA, JR. DIC, CITY ENGINEERING DEPARTMENT	HON. RA. JOSEFINA G. BELNORITE CITY ENGINEER	GENERAL NOTES MADE: LAYOUT DETAILS, LEGEND AND SYMBOLS
LOCATION: BARANGAY BAGONG, DISTRICT 1 - QUEZON CITY	DIVISION NO.:					EL-01 08/09

THE SITE



1 VICINITY MAP

SCALE: NTS.

THE SITE



2 LOCATION MAP

SCALE: NTS.



3 PERSPECTIVE

SCALE: NTS.

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Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION
BAYANGSAY SAN BARTOLOME, DISTRICT 3, JERON CITY

DRAWN BY: ENR

SUBMITTED BY:

DATE: 10/1/2021

CHECKED BY: JMN

REVISION NO.:

ENR. LEO S. DEL ROSARIO
HEAD, PLANNING & REGULATING DIVISION

RECOMMENDING APPROVAL:

ENR. ISAAC R. VERZOSA, JR.
CEL. DIV. ENGINEERING DEPARTMENT

APPROVED BY:

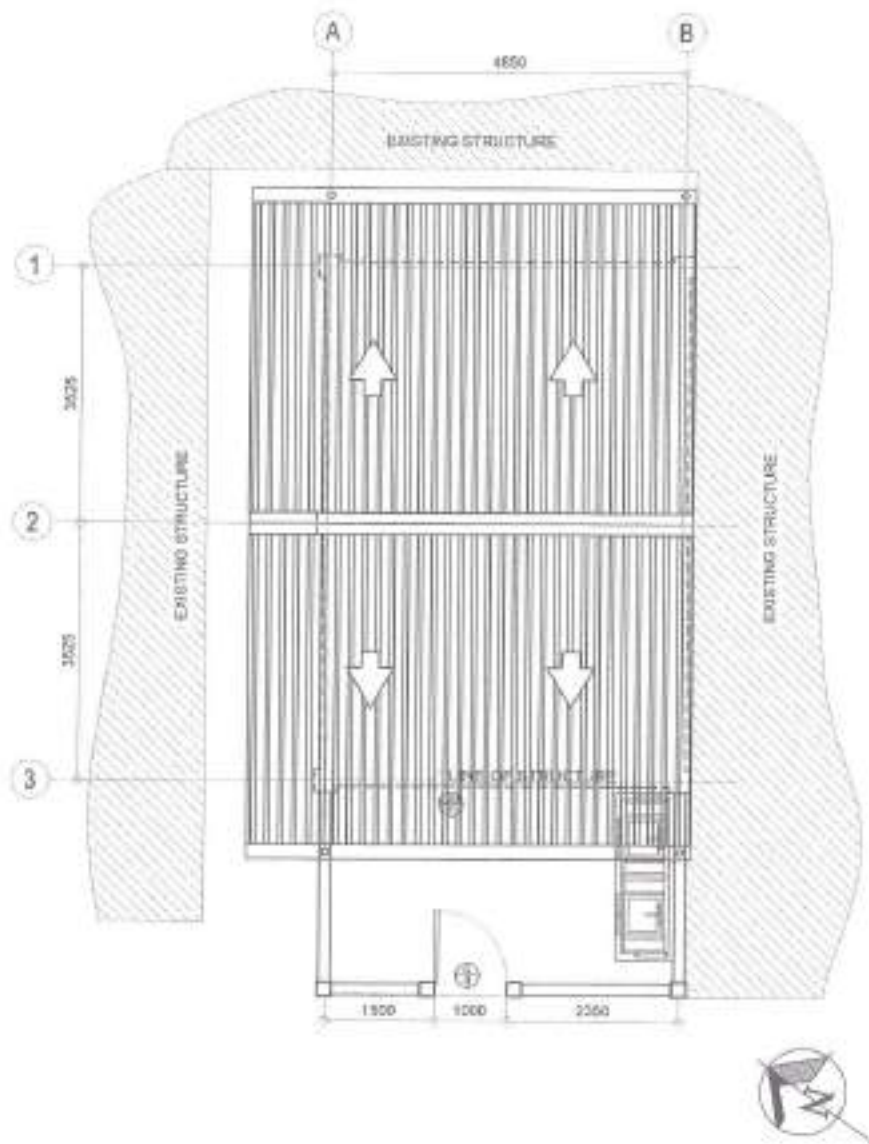
HON. MA. JOSEFINA G. BELMONTTE
CITY MAOR

SHEET CONTENT:

VICINITY MAP
LOCATION MAP
SITE DEVELOPMENT PLAN

SHEET NO.:

AR-01
01/16



1 | SITE DEVELOPMENT PLAN

SCALE 1:100M



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Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
BAYANGHAY SAN SAUTAGORE, DISTRICT 5, QUEZON CITY

DRAWN BY: *[Signature]*
DATE: 10-01-2021
CHECKED BY: *[Signature]*
REVISIONS:

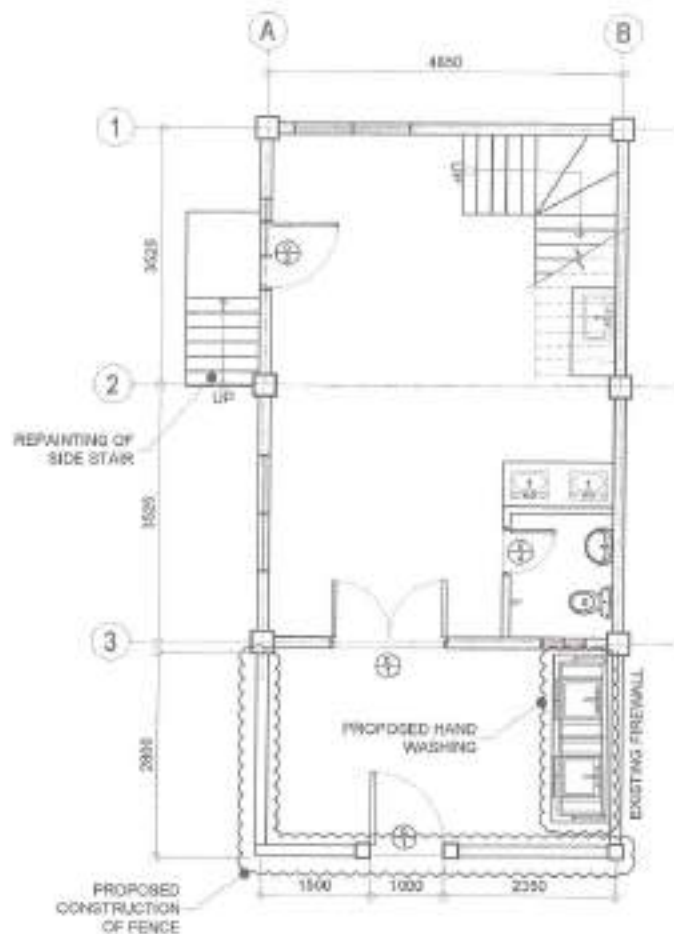
DESIGNED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING PROGRAM DIVISION

RECOMMENDING OFFICER:
ENGR. MARCOS R. VERZOSA, JR.
DC, CITY ENGINEERING DEPARTMENT

APPROVED BY:
HON. MA. JOSEFINA D. BELMONTE
CITY MAYOR

SHEET CONTENT:
SITE DEVELOPMENT PLAN

SHEET NO.
AR-02
02/16



- NOTES:
1. DOORS AND WINDOWS TO BE REPLACED.
 2. INTERIOR AND EXTERIOR WALL TO BE REPAINTED.
 3. REPLACEMENT OF 300mm x 305mm COUNTERTOP TILES.

1 GROUND FLOOR PLAN (PROPOSED)

SCALE 1:100M



- NOTES:
1. DOORS AND WINDOWS TO BE REPLACED.
 2. INTERIOR AND EXTERIOR WALL TO BE REPAINTED.

2 SECOND FLOOR PLAN (PROPOSED)

SCALE 1:100M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
DARAWAY SAY BARTOLOME, DISTRICT 5, SAMPAGUITA CITY

OWNER: *[Signature]*
DATE: 08/15/2021
CHECKED BY: JAC
PERSONAL:

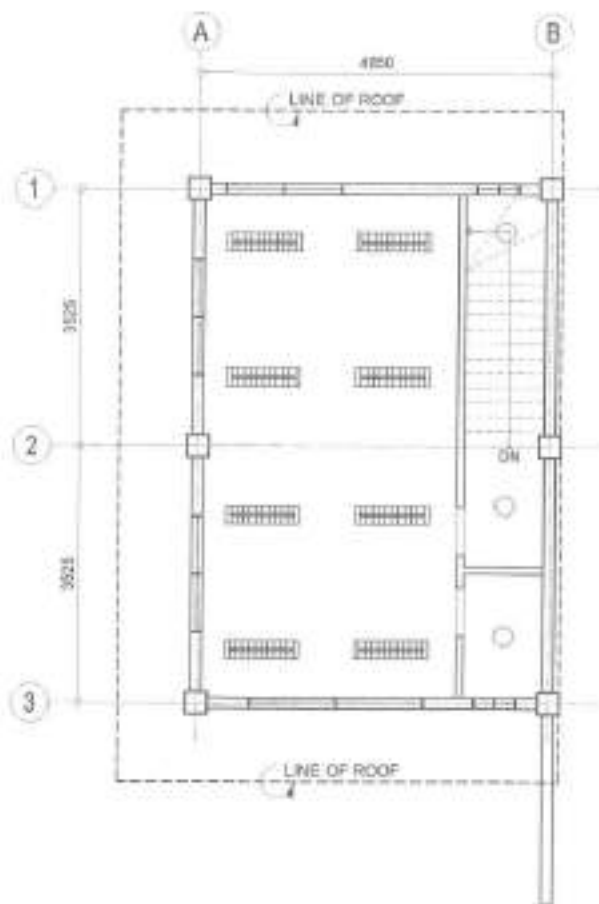
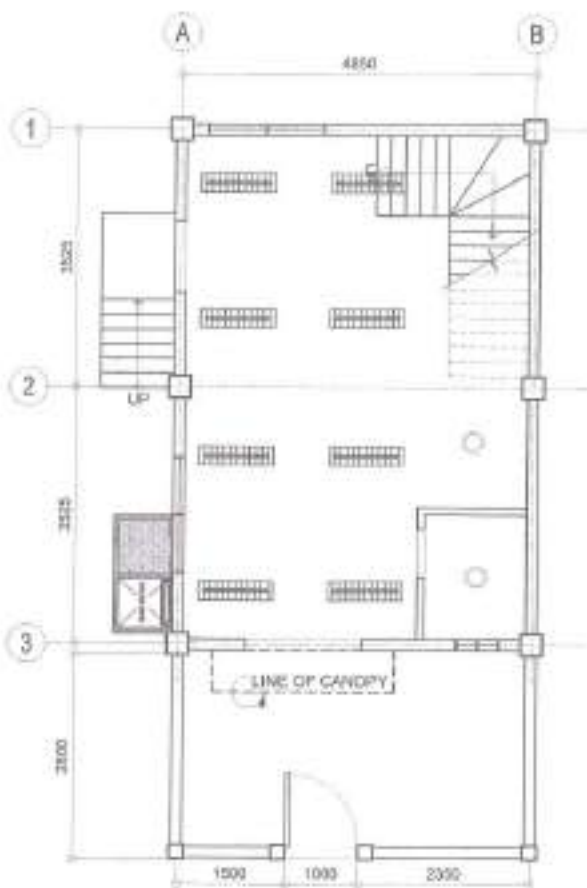
DESIGNED BY:
[Signature]
ENGR. LEO S. DEL ROSARIO
LEAD, PLANNING PROGRAMS DIVISION

RECOMMENDED APPROVAL:
[Signature]
ENGR. JOSE ANI R. VERZOSA, JR.
DC, CITY ENGINEERING DEPARTMENT

APPROVED BY:
[Signature]
HON. MA. JOSEFINA D. BELMONTE
CITY MAYOR

SHEET CONTENT:
GROUND FLOOR PLAN (PROPOSED)
SECOND FLOOR PLAN (PROPOSED)

SHEET NO.
AR-03
03/16



NOTE:
1. EXISTING CEILING TO BE REPLACE WITH OF 6mm THICK FIBER CEMENT BOARD INCLUDING ROOF EAVES.

NOTE:
1. EXISTING CEILING TO BE REPLACE WITH OF 6mm THICK FIBER CEMENT BOARD INCLUDING ROOF EAVES.

1 GROUND FLOOR REFLECTED CEILING PLAN

SCALE 1:100M

2 SECOND FLOOR REFLECTED CEILING PLAN

SCALE 1:100M



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CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
SAMPAGUITA SAN BARTOLOME, DISTRICT 8, QUEZON CITY

DESIGNED BY:
DATE: 02/1/2021
CHECKED BY:
DESIGNED NO.:

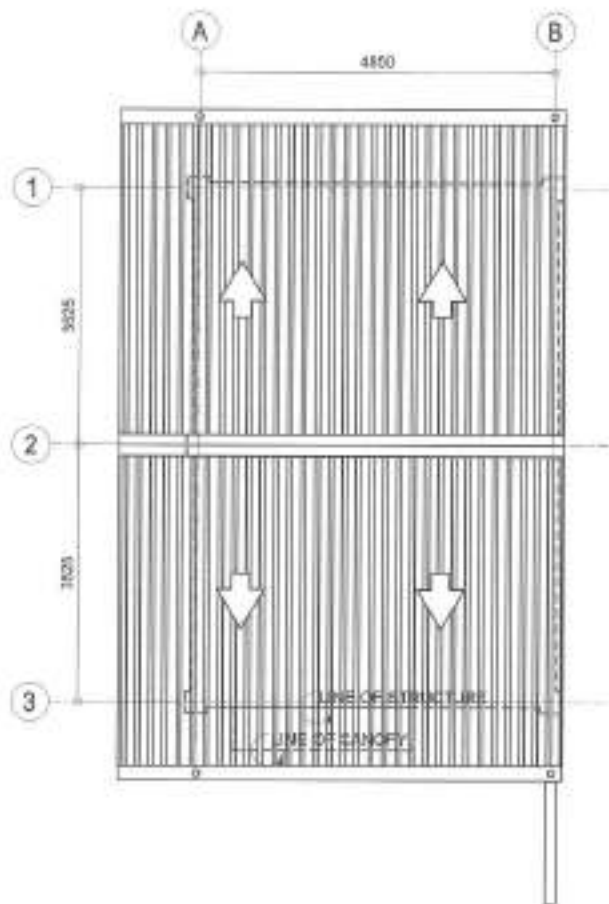
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[Signature]
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMS DIVISION

RECOMMENDING APPROVAL:
[Signature]
ENGR. LEONARDO R. VERZOSA, JR.
C.E., CITY ENGINEERING DEPARTMENT

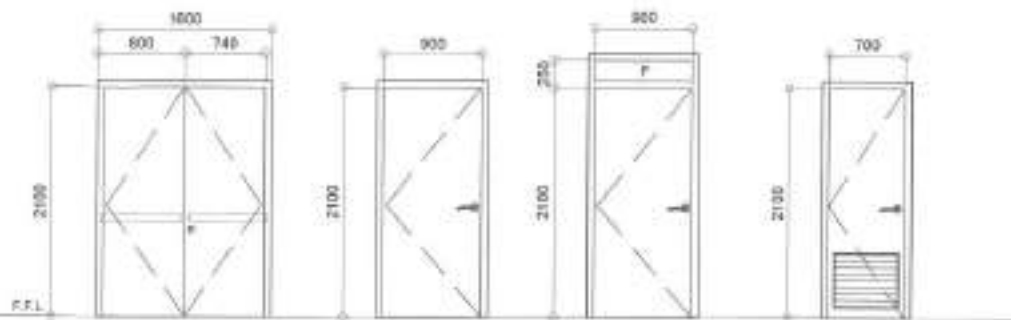
APPROVED BY:
[Signature]
HON. MA. JOSEFINA G. BELMONTÉ
CITY ENGINEER

SHEET CONTENT:
GROUND FLOOR
REFLECTED CEILING PLAN
SECOND FLOOR
REFLECTED CEILING PLAN

SHEET NO:
AR-04
04/16



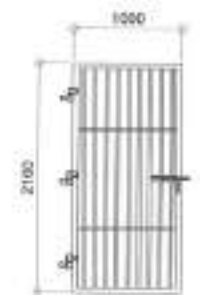
NOTE:
1. REPLACEMENT OF ROOFING AND ACCESSORIES.



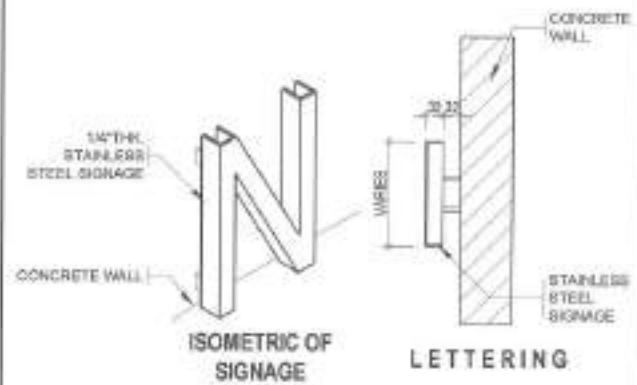
NAME	⊕	⊕	⊕	⊕
NO. OF SETS	1	1	1	2
DESCRIPTION	DOUBLE SWING GLASS DOOR ON POWDER COATED ALUMINUM FRAME	PANEL DOOR	PANEL DOOR	PVC DOOR WITH LOUVERS
HARDWARE / GLAZING		COMPLETE ACCESSORIES, DOOR KNOB, LEVER-TYPE, SATIN STAINLESS FINISH	COMPLETE ACCESSORIES, DOOR KNOB, LEVER-TYPE, SATIN STAINLESS FINISH	COMPLETE ACCESSORIES, DOOR KNOB, LEVER-TYPE, SATIN STAINLESS FINISH

2 SCHEDULE OF DOORS

SCALE 1:40M



NAME	⊕
NO. OF SETS	1
DESCRIPTION	25mm x 25mm x 1.5mm TUBULAR BAR (MAIN FRAME), 25mm x 25mm x 1.5mm TUBULAR BAR (BARREL BOLT AND WIRE)
LOCATION	PERIMETER FENCE MAIN GATE



1 ROOF PLAN

SCALE 1:100M

3 SCHEDULE OF GATE

SCALE 1:40M

4 LETTERING DETAILS

SCALE: NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
CAMPUS SAN BARTOLOME, DISTRICT 5, QUEZON CITY

DRAWN BY: *EMC*
DATE: 10/01/2021
CHECKED BY: *JMA*
REVISION NO.

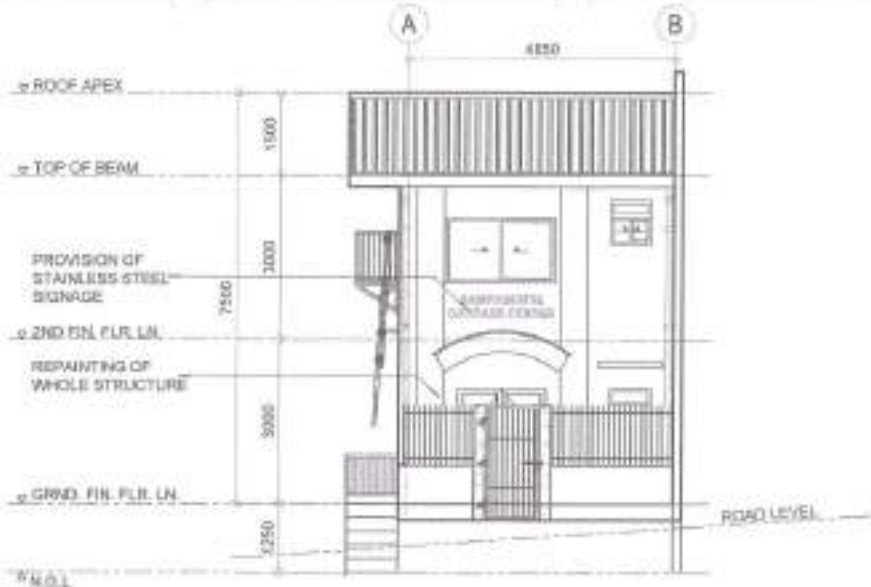
APPROVED BY:
[Signature]
ENGR. LEON S. DEL ROSARIO, JR.
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:
[Signature]
ENGR. ANDRAN R. VERZOSA, JR.
CH. CITY ENGINEERING DEPARTMENT

APPROVED BY:
[Signature]
HON. MA. JOSEFINA G. BELMONTTE
CITY MAYOR

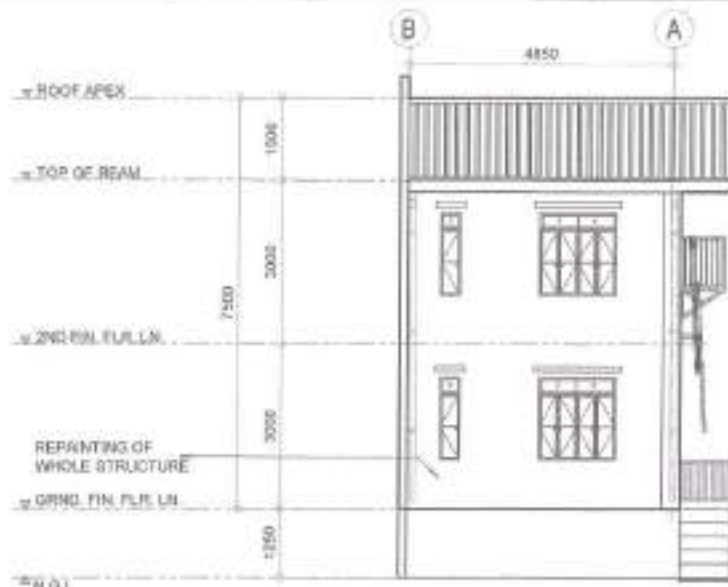
SHEET CONTENT:
GROUND FLOOR PLAN
EXISTING
GROUND FLOOR PLAN
PROPOSED

SHEET NO.:
AR-05
05/16



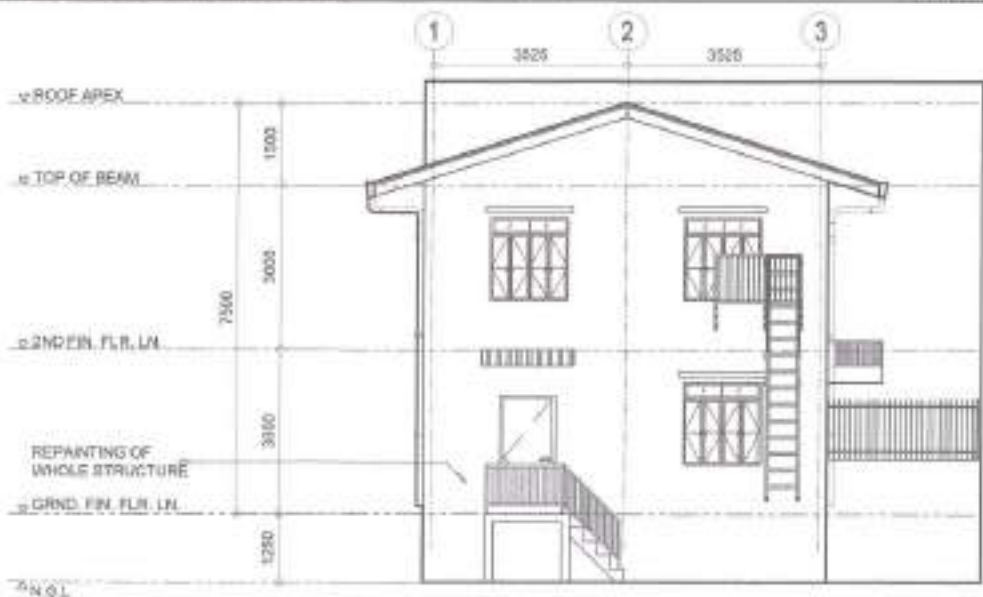
1 FRONT ELEVATION

SCALE 1:100M



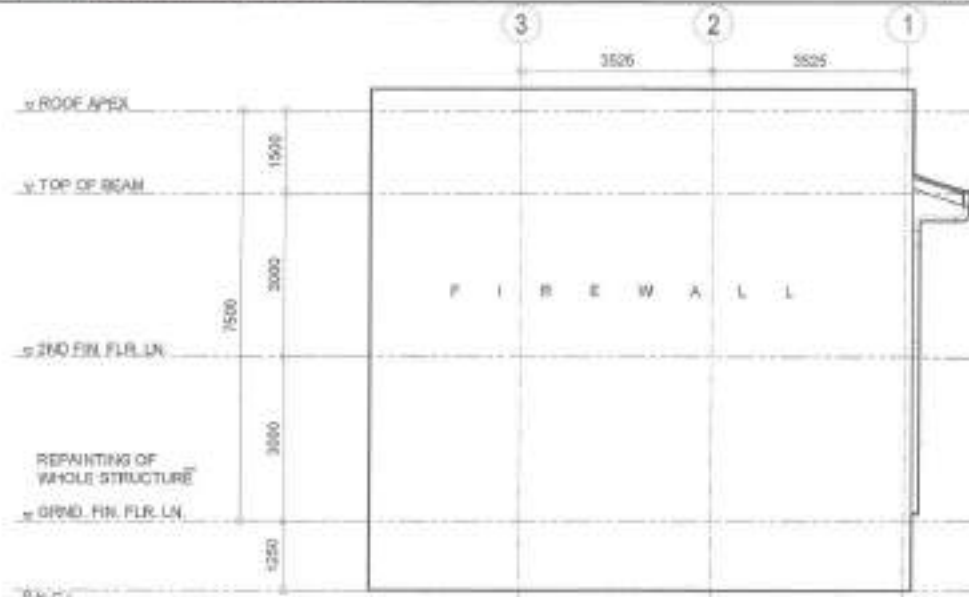
2 REAR ELEVATION

SCALE 1:100M



3 RIGHT SIDE ELEVATION

SCALE 1:100M



4 LEFT SIDE ELEVATION

SCALE 1:100M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
DAYANGDAY BAY DRIVE/SLINE, DISTRICT 3, QUEZON CITY

DESIGNED BY: ENG. *[Signature]*
DATE: 10/01/2021
CHECKED BY: *[Signature]*
REVISION NO.:

RECOMMENDED APPROVAL:
[Signature]
ENGR. LEO S. DEL ROSARIO
FRONT, REAR, RIGHT AND LEFT SIDE ELEVATION DESIGNER

APPROVED BY:
[Signature]
ENGR. ISABELLE R. VERZOSA, JR.
CITY ENGINEERING DEPARTMENT

APPROVED BY:
[Signature]
HON. MA. JOSEFINA G. BELMONTTE
CITY ENGINEER

SHEET COVER:
FRONT ELEVATION
REAR ELEVATION
RIGHT SIDE ELEVATION
LEFT SIDE ELEVATION

SHEET NO.
AR-06
06/16

GENERAL

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, NATIONAL AND INTERNATIONAL STANDARDS AND CODES.
- WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, NATIONAL AND INTERNATIONAL STANDARDS AND CODES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE START OF WORK TO BE SURE THAT ALL DIMENSIONS AND CONDITIONS FOR CONCRETE, REINFORCEMENT, ETC. ARE IN ACCORDANCE WITH THE DRAWINGS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE NECESSARY REINFORCEMENT AND BRACING OF THE STRUCTURE FOR ALL WORK THAT REQUIRES SPECIAL BRACING OR SUPPORT.
- WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE LOCAL, NATIONAL AND INTERNATIONAL STANDARDS AND CODES FOR CONSTRUCTION OF CONCRETE STRUCTURES.

CONCRETE & REINFORCEMENT

- ALL CONCRETE AND REINFORCEMENT SHALL CONFORM WITH THE LATEST REVISIONS OF THE PHILIPPINE STANDARDS AND CODES.
 - ALL CONCRETE SHALL BE OF A MINIMUM COMPRESSIVE STRENGTH AT THE END OF 28 DAYS OF CURE WITH CHARACTERISTICS AS SET FORTH IN THE TABLES BELOW.
- | LOCATION | STRENGTH | MAX. SIZE OF AGGREGATE | MAX. SLUMP |
|---|-------------------|------------------------|------------|
| A. BASE OF WALL, CONCRETE FOOTING, CONCRETE WALL, CONCRETE WALL, CONCRETE WALL, CONCRETE WALL | 20 MPa (2900 PSI) | 14 (20mm) | 44 (10mm) |
| B. ROOF, CONCRETE SLAB, CONCRETE SLAB, CONCRETE SLAB, CONCRETE SLAB | 20 MPa (2900 PSI) | 14 (20mm) | 44 (10mm) |
| C. CONCRETE SLAB, CONCRETE SLAB, CONCRETE SLAB, CONCRETE SLAB | 20 MPa (2900 PSI) | 14 (20mm) | 44 (10mm) |

- ALL REINFORCING BARS SHALL CONFORM WITH THE LATEST REVISIONS OF THE PHILIPPINE STANDARDS AND CODES FOR ALL WORK THAT REQUIRES SPECIAL BRACING OR SUPPORT.
- ALL REINFORCING BARS SHALL BE OF A MINIMUM COMPRESSIVE STRENGTH AT THE END OF 28 DAYS OF CURE WITH CHARACTERISTICS AS SET FORTH IN THE TABLES BELOW.

- CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE LATEST REVISIONS OF THE PHILIPPINE STANDARDS AND CODES FOR ALL WORK THAT REQUIRES SPECIAL BRACING OR SUPPORT.
- CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE LATEST REVISIONS OF THE PHILIPPINE STANDARDS AND CODES FOR ALL WORK THAT REQUIRES SPECIAL BRACING OR SUPPORT.

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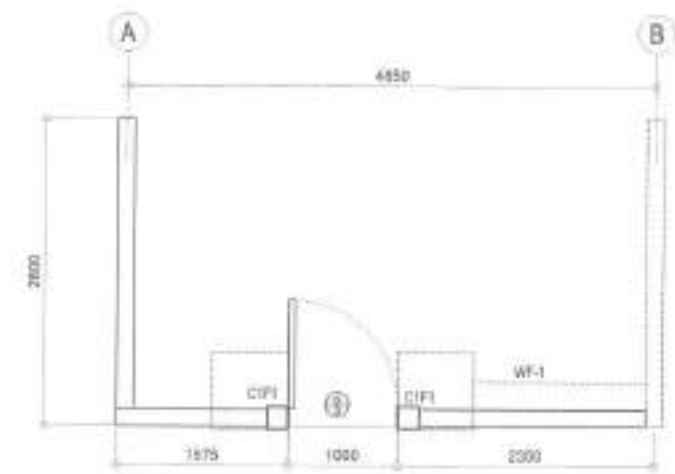
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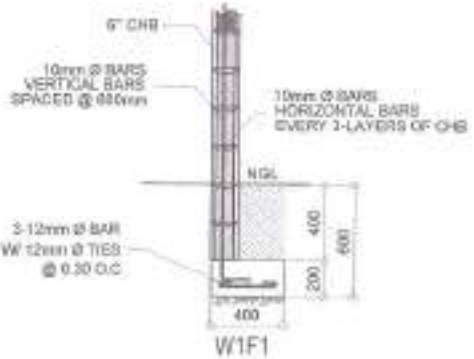
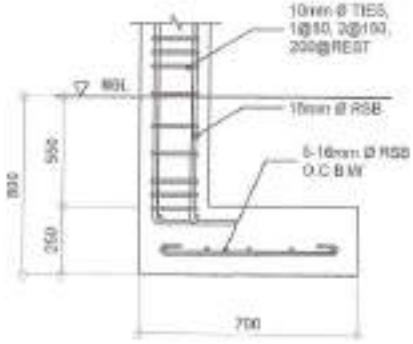
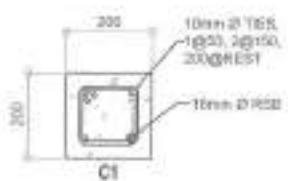
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2 FOUNDATION PLAN

SCALE 1:40M



1 GENERAL NOTES

SCALE NTS.

3 COLUMN AND FOOTING DETAILS

4 WALL FOOTING DETAILS

SCALE 1:30M

Republika ng Pilipinas
 Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
 HAND WASHING FACILITY AND
 REHABILITATION OF
 SAMPAGUITA DAYCARE CENTER**

LOCATION:
 SANMIGWAY SAN BARTOLOME, DISTRICT 2, QUEZON CITY

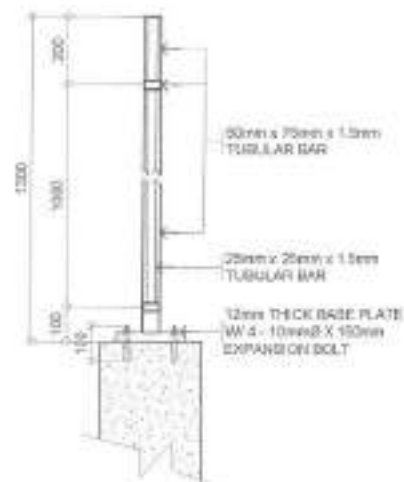
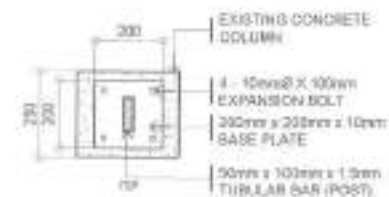
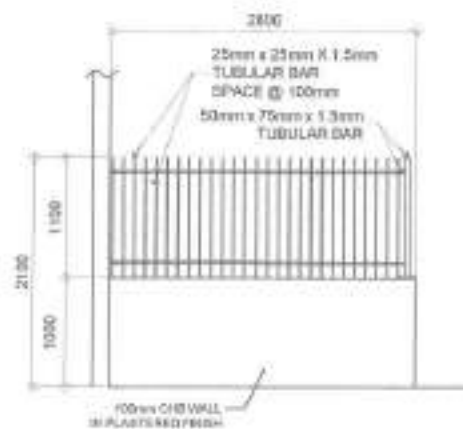
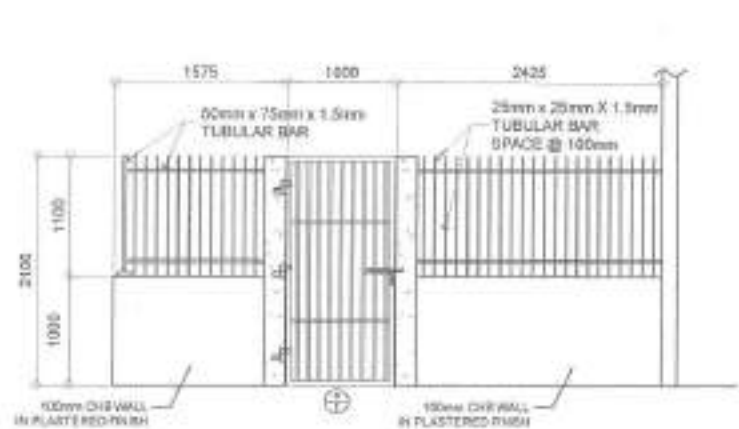
DRAWN BY: *[Signature]*
 CHECKED BY: *[Signature]*
 APPROVED BY: *[Signature]*
ENGR. LEO S. DEL ROSARIO
 HEAD, PLANNING & PROJECT MANAGEMENT DIVISION

RECOMMENDING APPROVAL:
[Signature]
ENGR. LEO S. DEL ROSARIO
 HEAD, PLANNING & PROJECT MANAGEMENT DIVISION

APPROVED BY:
[Signature]
HON. MA. JOSEFINA G. BELMONTE
 CITY MAYOR

SHEET NO.:
ST-01
07/16

GENERAL NOTES:
 FOUNDATION PLAN,
 COLUMN AND FOOTING
 DETAILS,
 WALL FOOTING DETAILS



1 FENCE DETAIL

SCALE: 1:50M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
BAYANGWY SAR BAYCOLUMB DISTRICTS, SACERDADITY

DESIGN BY: GABRIEL S. DEL ROSARIO
DATE: 08/16/2021
CHECKED BY: JAY
REVISIONS:

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAM DIVISION

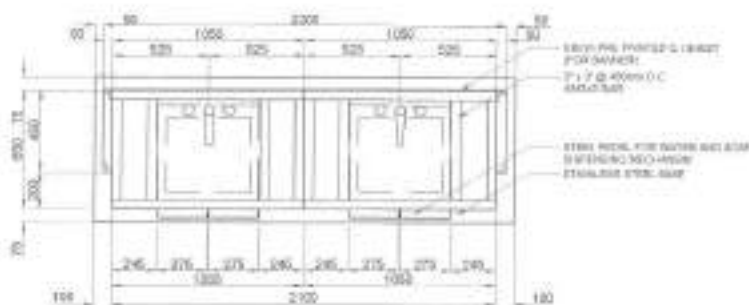
RECOMMENDING APPROVAL:
ENGR. MARIANO R. VERZOSA, JR.
CITY ENGINEERING DIVISION

APPROVED BY:
HON. MA. JOSEFINA B. BELMONTE
CITY MAYOR

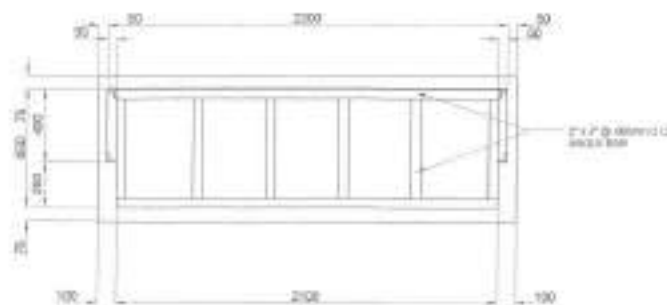
SHEET CONTENT:
FENCE DETAIL

SHEET NO.

ST-02
08/16



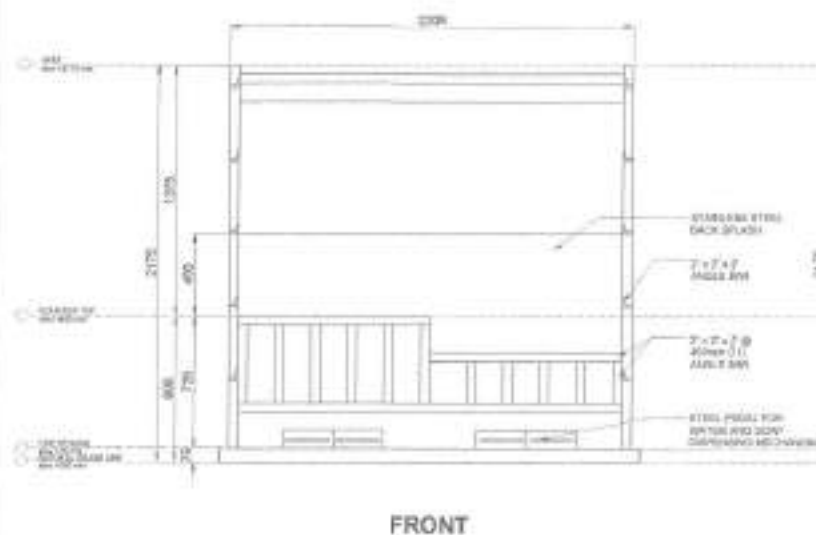
PLAN



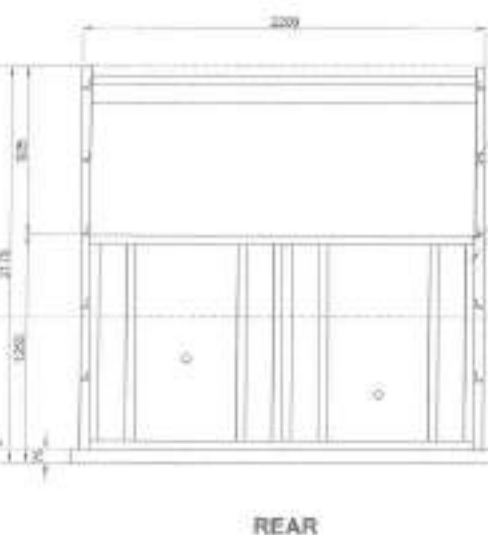
ROOF PLAN

1 DOUBLE SINK PORTABLE HAND WASHING STALL PLAN

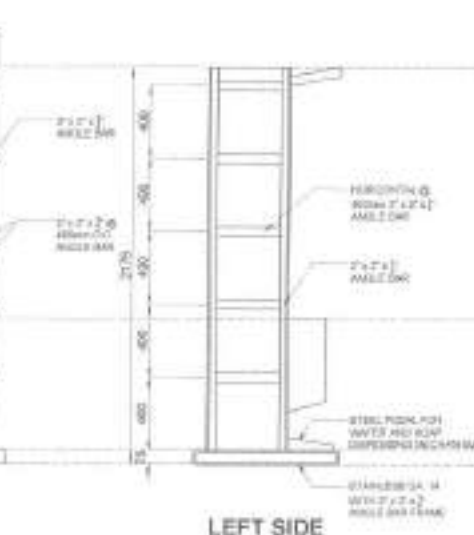
SCALE: 1:30M



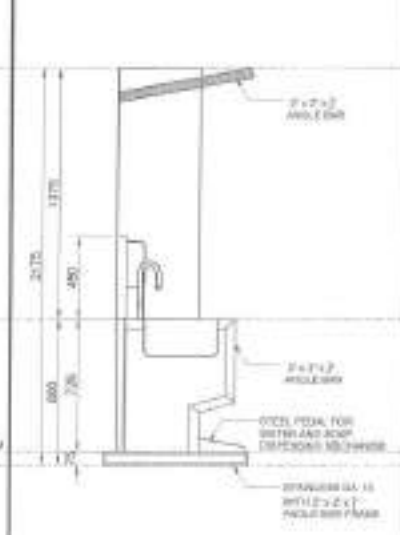
FRONT



REAR



LEFT SIDE



2 SECTION

SCALE: 1:30M

2 ELEVATIONS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**
LOCATION:
DARAWAY SAN ISIDRO, DISTRICT 1, QUEZON CITY

DESIGN BY: *[Signature]*
DATE: 04/1/2021
CHECKED BY: *[Signature]*
REVISION(S):

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMMING DIVISION

RECOMMENDING APPROVAL:
[Signature]
ENGR. LUCIANO R. VERZOSA, JR.
CITY ENGINEERING SUPERVISOR

APPROVED BY:
[Signature]
HON. MA. JOSEFINA D. BELMONTE
CITY MAAYOR

SHEET NO. 01/01
SINGLE SINK PORTABLE
HAND WASHING STALL
PLAN FRONT SECTION

SHEET NO.
ST-03
09/16

1. ALL THE PLUMBING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE, RULES AND REGULATIONS OF QUEZON CITY.
2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED. THE ENGR/ARCH SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.
4. PROPOSED SANITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING STRUCTURES AND PIPES AS VERIFIED BY THE CONTRACTOR.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MIN. UNLESS OTHERWISE SPECIFIED.
6. SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
8. ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY FLUSHED AND DISINFECTED WITH LIQUID CHLORINE OR HYPOCHLORITE SOLUTION.
9. ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO A PRESSURE 1-1 1/2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
10. ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY TESTED AT LEAST 3.0 METR. HEAD TO ENSURE THAT THE SYSTEM ARE WATER TIGHT.
11. ALL DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
12. ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DIAMETER.

1 GENERAL NOTES

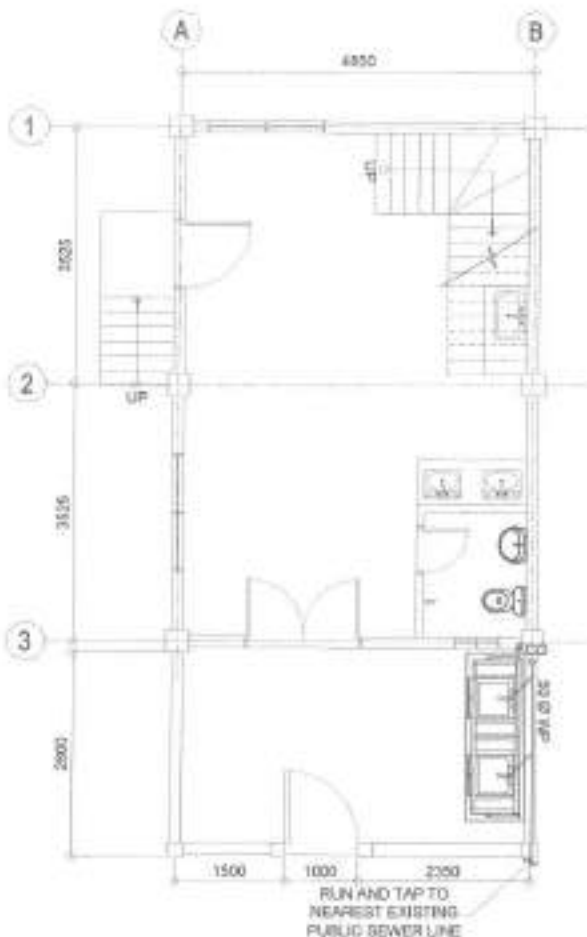
I. SEWER, WASTE AND VENT SYSTEM

- SP / WP - SOIL PIPE / WASTE PIPE
- VP / VAC - VENT PIPE / VENT AT CEILING
- DP - STORM DRAIN PIPE
- FCO / GCO - FLOOR CLEANOUT / GROUND CLEANOUT
- CCO - CEILING CLEAN-OUT
- DS - DRAINAGE STACK / DOWNDROUT
- VSTR - VENT STACK EXTENDED THROUGH ROOF
- SS - SOIL STACK
- FD - FLOOR DRAIN
- CB - CATCH BASIN
- AD - AREA DRAIN
- ST - STALL TYPE URINAL
- GT - GREASE TRAP

K. WATER DISTRIBUTION SYSTEM

- CWL - COLD WATER LINE
- CWR - COLD WATER RISER
- GV - GATE VALVE
- CV - CHECK VALVE
- WM - WATER METER
- BD - BALCONY DRAIN

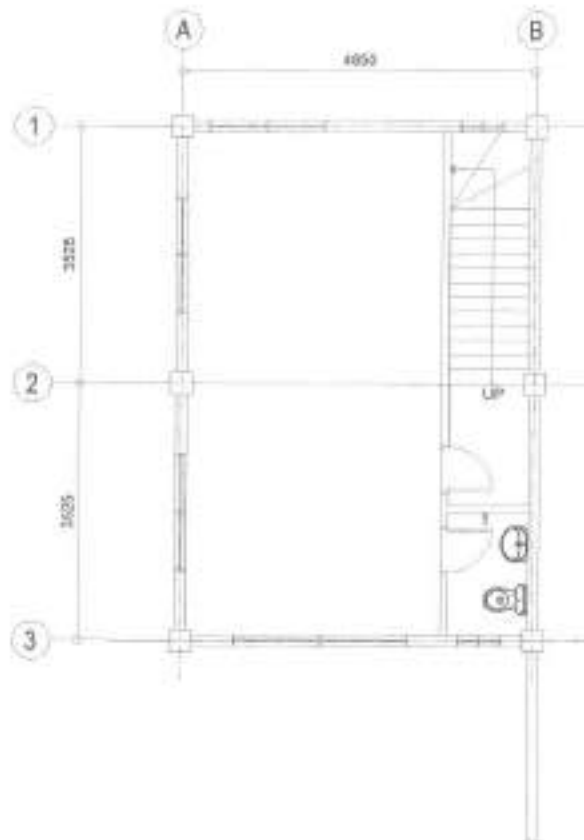
NOTE:
1. REPLACEMENT OF PLUMBING FIXTURES.



2 LEGENDS AND SYMBOLS

4 GROUND FLOOR SANITARY LINE LAYOUT SCALE 1:30M

6 SECOND FLOOR SANITARY LINE LAYOUT SCALE 1:30M



NOTE:
1. REPLACEMENT OF PLUMBING FIXTURES.



Republic of the Philippines
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
SAMPAGUITA SAN BARTOLOME, DISTRICT 3, QUEZON CITY

DATE: 08/1/2021
CHECKED BY: [Signature]
DESIGNED BY: [Signature]

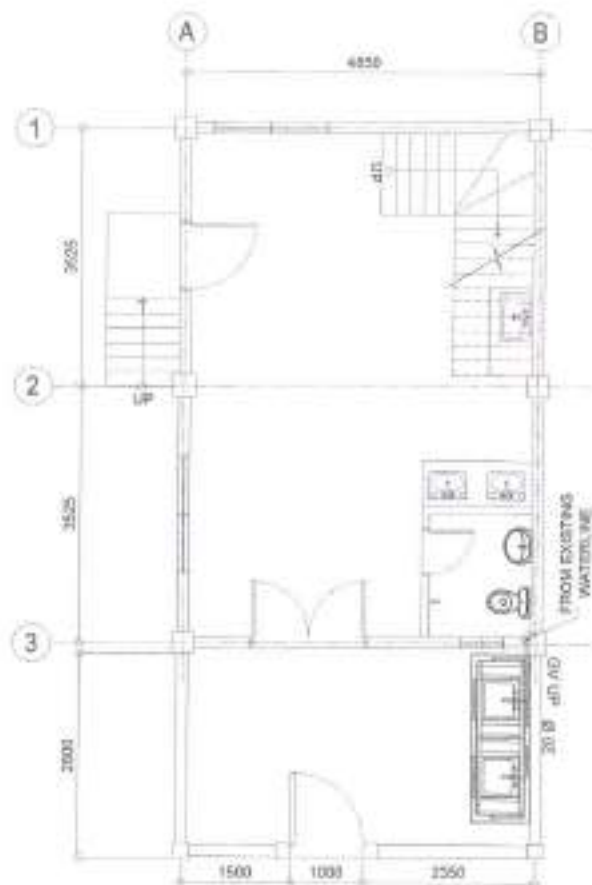
APPROVED BY:
[Signature]
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PERMITS DIVISION

RECOMMENDING APPROVAL:
[Signature]
ENGR. ISAAC R. VERZOSA, JR.
DEPUTY CITY ENGINEERING SUPERVISOR

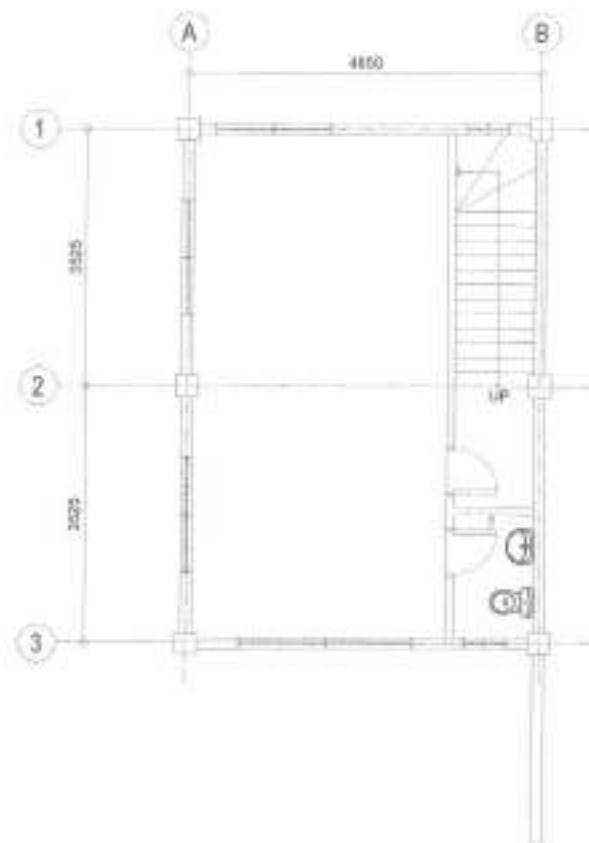
APPROVED BY:
[Signature]
HON. MA. JOSEFINA O. BELMONTTE
CITY MAYOR

DRAWING CONTENT:
GENERAL NOTES
LEGENDS AND SYMBOLS
GROUND FLOOR
SANITARY LINE
SECOND FLOOR
SANITARY LINE

REVISION:
PL-01
11/16



NOTE:
1. REPLACEMENT OF PLUMBING FIXTURES.



NOTE:
1. REPLACEMENT OF PLUMBING FIXTURES EXCEPT WATER CLOSET.

1 GROUND FLOOR WATER LINE LAYOUT

SCALE 1:30M

2 SECOND FLOOR WATER LINE LAYOUT

SCALE 1:30M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
BARANGAY SAN BARTOLOME, DISTRICT 5, QUEZON CITY

DESIGNED BY:
DATE: 4/20/2017
DRAWN BY: J.M.
CHECKED BY: J.M.
REVISIONS:

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING AND DESIGN DIVISION

RECOMMENDED APPROVAL:
ENGR. ISIDORO R. VERZOSA, JR.
CEO, CITY ENGINEERING DEPARTMENT

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
CITY MAOR

SHEET CONTENT:
GROUND FLOOR WATER
LINE LAYOUT
GROUND FLOOR
SANITARY LINE LAYOUT

SHEET NO.

PL-02
12/16

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL GOVT. AGENCIES, ADMINISTRATIVE AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE SAME THROUGH THE ENGINEER. FINAL SET POINTS OF ELECTRICAL MATERIALS SHALL BE APPROVED THROUGH THE CONTRACTING AUTHORITY FOR CONSTRUCTION WORK.
- ALL EXPOSED WIRING GROUPS SHALL BE PROVIDED WITH HOUSING EXCEPT NEUTRAL WIRE SHALL BE NOT SUPPORTED BY CONDUIT LEMPS (E.G. 30 MILLIMETER).
- WALL BRACKETS SHALL BE PROVIDED BY THE CONTRACTOR WHERE NECESSARY TO HOLD LAMPS WHO WILL BE USED IF THESE ARE NOT PROVIDED ON THE PLAN. NONE OF ALL WALL BRACKETS SHALL BE CONSIDERED BASED ON THE VOICE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. BRACKET LOCATION OR LOCATION OF WALL BRACKET SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE INSTALLATION PLAN.
- ALL DIMENSIONS OF ELECTRICAL MATERIALS SHALL BE GIVEN IN METERS WITH PARALLEL OR PERPENDICULAR.
- PROVIDE GROUNDED WALL MOUNTED SWITCH AND CIRCUIT BREAKER FOR 1000V MAXIMUM (1000V) ON THE PLAN.
- ALL METALLIC CONDUITS, CHANNELS AND RACKS SHALL BE PROVIDED WITH EARTHING AND GROUNDING.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED EQUIPMENT SHALL BE AS FOLLOWS:

RECEPTACLE OUTLET - 300 MM X 100 MM ABOVE WORKING SURFACE
 LIGHTING SWITCH - 1400 MM AFF
 PANEL BOARD - 3000 MM AFF

- REFER TO MECHANICAL PLANS FOR THE PROTECTION (PROVIDED) FOR THE WORK AND LOCATION OF EQUIPMENT AS WELL AS THEIR CONTROL DEVICES AS APPROVED AND SHOWN UNDER THEIR RESPECTIVE SECTIONS.
- ALL DIMENSIONS TO BE USED SHALL BE OF THE BEST QUALITY, UNLESS OTHERWISE SPECIFIED.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND DIMENSIONS AND COORDINATION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE THE EXACT LOCATION, LEVEL AND DIMENSIONS OF THE EQUIPMENT. THE CONTRACTOR IS REQUIRED TO MAKE SUCH ADJUSTMENT AT THE WORKING LOCATION. DIMENSIONS AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE.
- ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL BE 2.0 AMP, 100V, 2000VA WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 1.5 SQ. MM. CONDUCTORS SHALL HAVE AN INSULATION SHALL BE AS FOLLOWS:

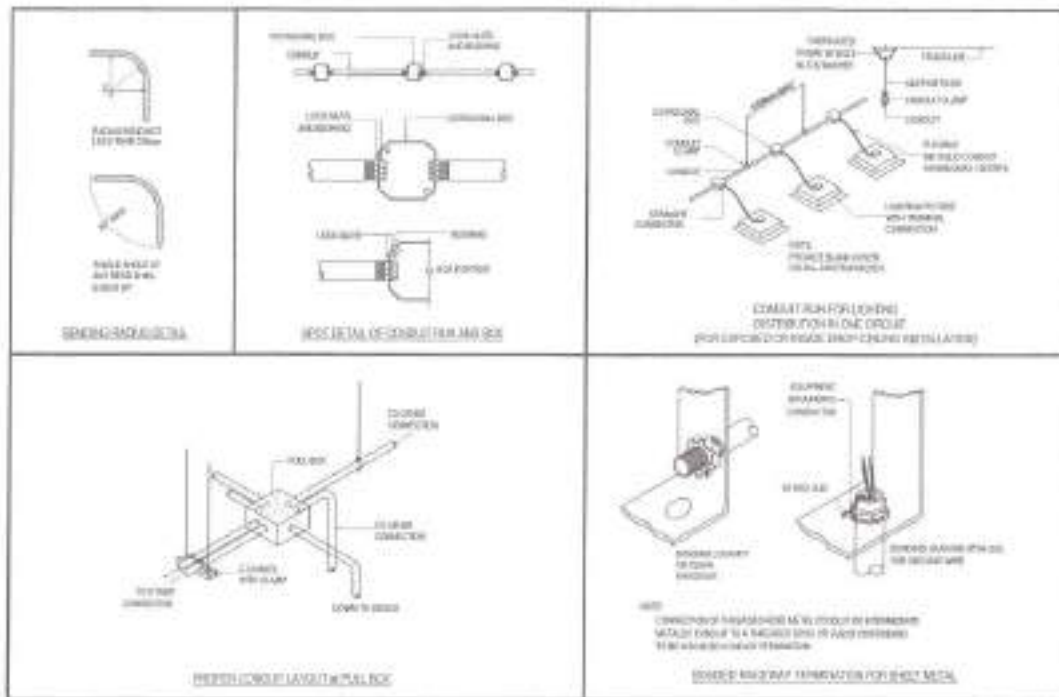
LINE 1 - RED
 LINE 2 - YELLOW
 NEUTRAL - WHITE
 GROUND - GREEN

- WIRING WITH BUTTERFLY WELDING SHALL BE PROHIBITED FROM STEEL WITH THE FOLLOWING:
 - WIRE GAUGE (OF THE MOST APPROPRIATE)
 - UP TO INCLUDE 10/0 MM GA - 1/4" IN FINISHED WITH METAL FINISH ON TOP AND BOTTOM
 - OVER 10/0 MM BUT NOT OVER 4/0 (3) - 1/4" IN FINISHED WITH METAL FINISH ON TOP AND BOTTOM
 - OVER 4/0 (3) BUT NOT OVER 1/0 (2) - 1/4" IN FINISHED WITH METAL FINISH ON TOP AND BOTTOM
 - OVER 1/0 (2) - 1/4" IN FINISHED WITH METAL FINISH ON TOP AND BOTTOM
- ALL ELECTRICAL WORK SHALL BE DONE BY A LICENSED ELECTRICIAN UNDER THE DIRECT SUPERVISION OF THE FULL TIME ELECTRICAL ENGINEER. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE AND ALL THE WORK SHALL BE PROPERLY PLACED, PROPERLY FASTENED AND PROPERLY WIRING.
- TYPE OF WIRING SYSTEM SHALL BE SINGLE PHASE, TWO WIRE PLUS GROUND - 200V/100V/200V/100V.
- CONDUIT IN HAND SHALL THERE BE MORE THAN TWO CONDUITS OF EACH QUANTITY WHEN ALL THE CONDUIT TYPES SHALL BE FOLLOWED BY THE CONTRACTOR. MISCELLANEOUS WIRING SHALL BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSTALLATION WORK SHALL BE FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR. RESULTS OF THE INSTALLATION TO BE REPORTED TO THE ARCHITECT/ENGINEER APPROVED BY THE CLIENT OR CITY ENGINEER AND CONTRACT APPROVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK SHALL NOT BE MORE THAN ONE CONDUIT OF EACH QUANTITY SHALL NOT BE MORE THAN ONE.

	2X18WATTS TROFFER LIGHT, 1200MM X 300MM RECESSED TYPE	$3wS^{10}$	THREE WAY ONE POLE SWITCH (LIGHTS)
	ROUND RECESSED PINLIGHT 18WATTS	Φ	DUPLEX CONVENIENCE OUTLET
S°	SINGLE POLE SWITCH (LIGHTS)		ACU OULET
$2S^{10}c^{\circ}$	TWO POLE SWITCH (LIGHTS)		PANEL BOARD
$3S^{10}c^{\circ}$	THREE POLE SWITCH (LIGHTS)		HOME RUN CIRCUIT BREAKER
			WALL FAN

2 LEGEND & SYMBOLS

SCALE NTS



1 GENERAL NOTES

SCALE NTS

3 MISCELLANEOUS DETAILS

SCALE NTS

<p>Republika ng Pilipinas Lungsod ng Cebu CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DRAWN BY:	REVISION NO.:	RECOMMENDED APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	<p>PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF SAMPAGUITA DAYCARE CENTER</p> <p>LOCATION: SAMPAGUITA SAMPAGUITANE, DISTRICT 15, QUEZON CITY</p>	<p>ENR. 1001/2021</p> <p>CHECKED BY:</p> <p>ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & DESIGN DIVISION</p>	<p>ENGR. SALVADOR R. VERZOSA, JR. CH. CITY ENGINEERING DEPARTMENT</p>	<p>HON. MA. JOSEFINA G. BELMONTTE CITY MAYOR</p>	<p>GENERAL NOTES, LEGEND AND SYMBOLS, MISCELLANEOUS DETAILS</p>	<p>EL-01 13/16</p>	

PP (EXISTING)

Ckt. No.	LOAD DESCRIPTION	VOLT	POWER	CURRENT (AMPERE)	CIRCUIT BREAKER			WIRING AND CONDUIT		
					AT	AF	F	UNGROUND DWM	GROUND TW	MMB TYPE
1	ACU	230	2300	10.01	30	50	2	2 - 5.5mm ²	1 - 3.5mm ²	30 mm Ø PVC
2	4 - CONVENIENCE OUTLET	230	1380	6.78	30	50	2	2 - 5.5mm ²	1 - 3.5mm ²	30 mm Ø PVC
3	25 - TROUBLE, E-PL	230	684	2.97	25	50	2	2 - 5.5mm ²	1 - 3.5mm ²	30 mm Ø PVC
4	SPACE	230	1380	6.78	30	50	2	2 - 5.5mm ²	1 - 3.5mm ²	30 mm Ø PVC
TOTAL CONNECTED LOAD			5964	27.62						

CIRCUIT PROTECTION COMPUTATION:

$$I_1 = (5064 / 230) \times 1.25 + 25\%(10) \times 1.25\%$$

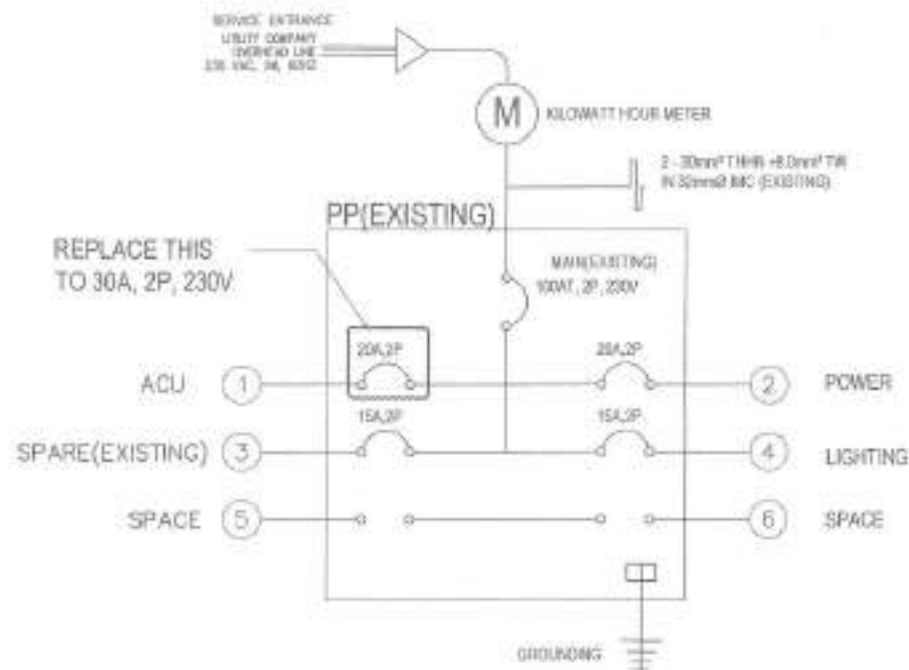
$$I_2 = 30.66 \text{ AMPERE}$$

OVER CURRENT PROTECTION:

USE: 100 AT, 2P CB ROLF-DN (EXISTING)

MAIN FEEDER:

USE: 2 - 30mm² THHN WIRE & 1 - 8.0mm² TW GROUND WIRE
IN 32mm Ø IMC TYPE (EXISTING)



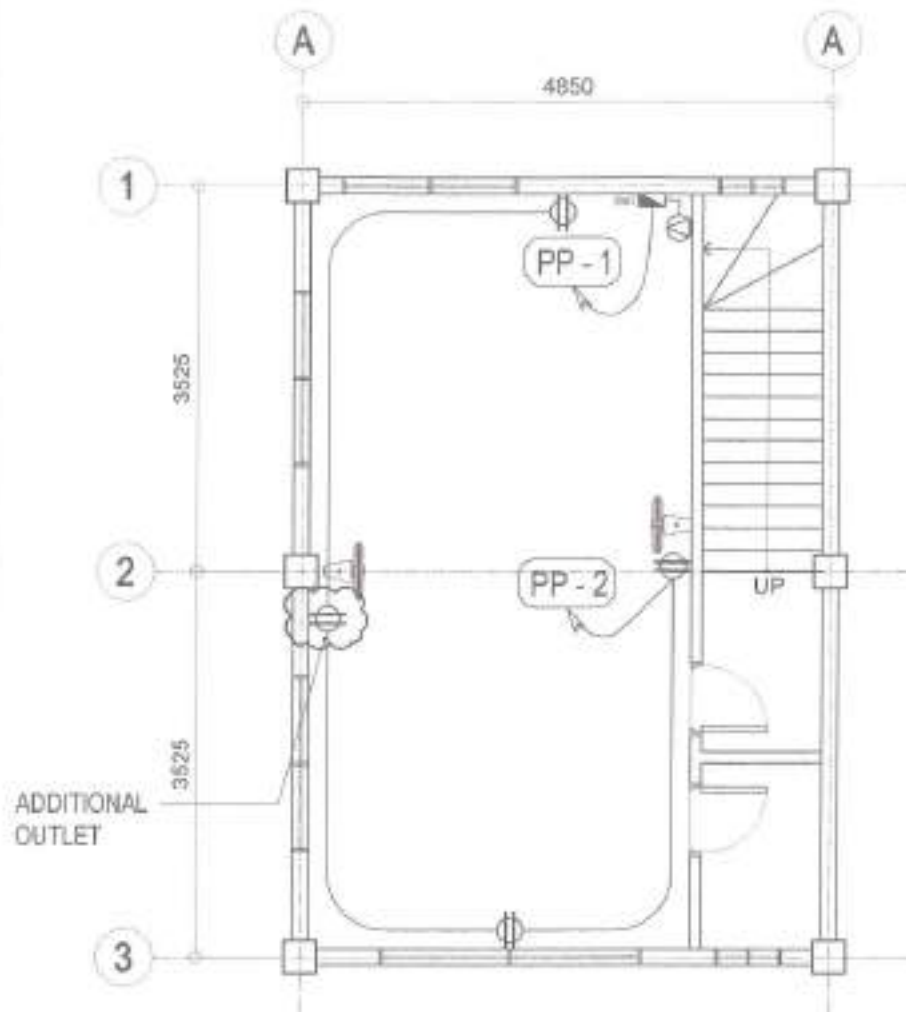
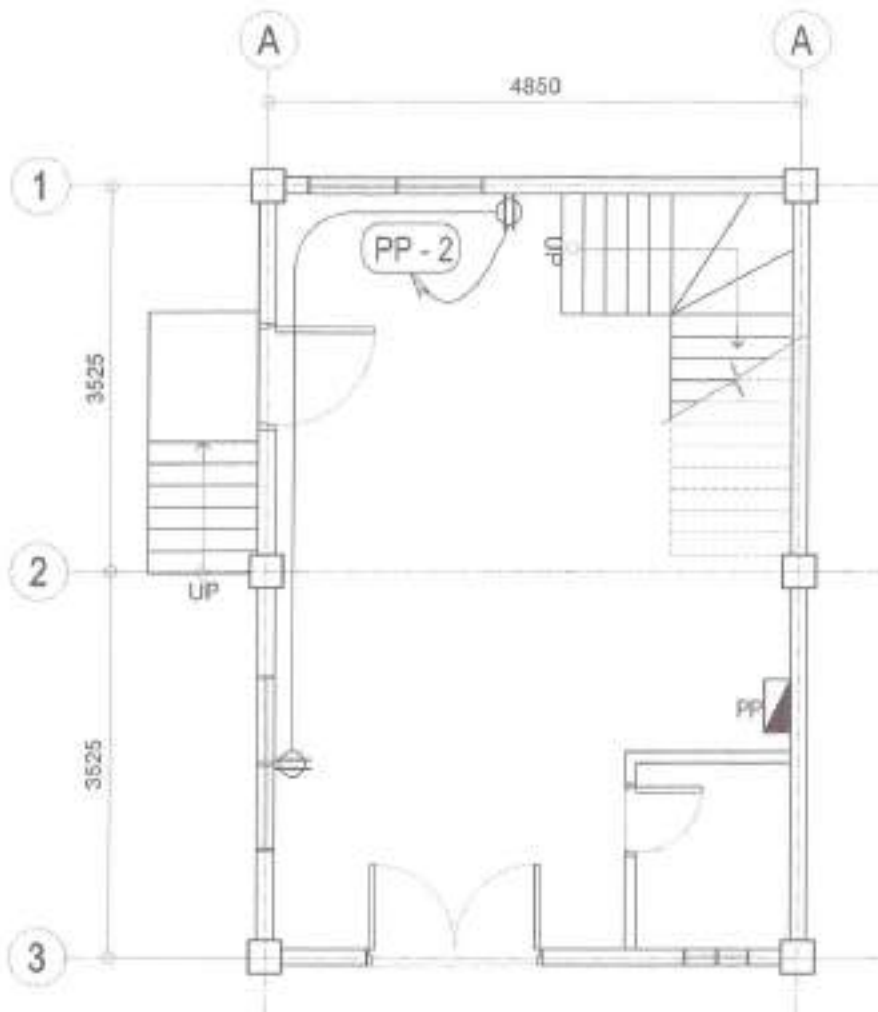
1 LOAD SCHEDULE

SCALE 1:1000A

2 RISE DIAGRAM

SCALE 1:100M

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DESIGNED BY: DR. JOSE M. DEL ROSARIO	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:	
	PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF SAMPAGUITA DAYCARE CENTER	DATE: 14.01.2024	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & DESIGN DIVISION	ENGR. ISAAC R. VERZOSA, JR. CH. ENGINEER, DESIGN DIVISION	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR	LOAD SCHEDULE RIBA DAYCARE	EL-02 14/16
	LOCATION: SAMPAGUITA SAN MARTIN, DISTRICT 9, QUEZON CITY	CHECKED BY: JEN	PERSON NO.:				



NOTE
1. REPLACEMENT AND REWIRING OF ALL WIRING DEVICES

1 PROPOSED GROUND POWER LAYOUT

SCALE 1:50M

2 PROPOSED SECOND FLOOR POWER LAYOUT

SCALE 1:50M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**
LOCATION:
BARANGAY SAN ANTONIO, DISTRICT 1, QUEZON CITY

DRAWN BY: ENGR. LEO S. DEL ROSARIO
DATE: 9/28/2011
CHECKED BY: J.M.
REVISION NO.:

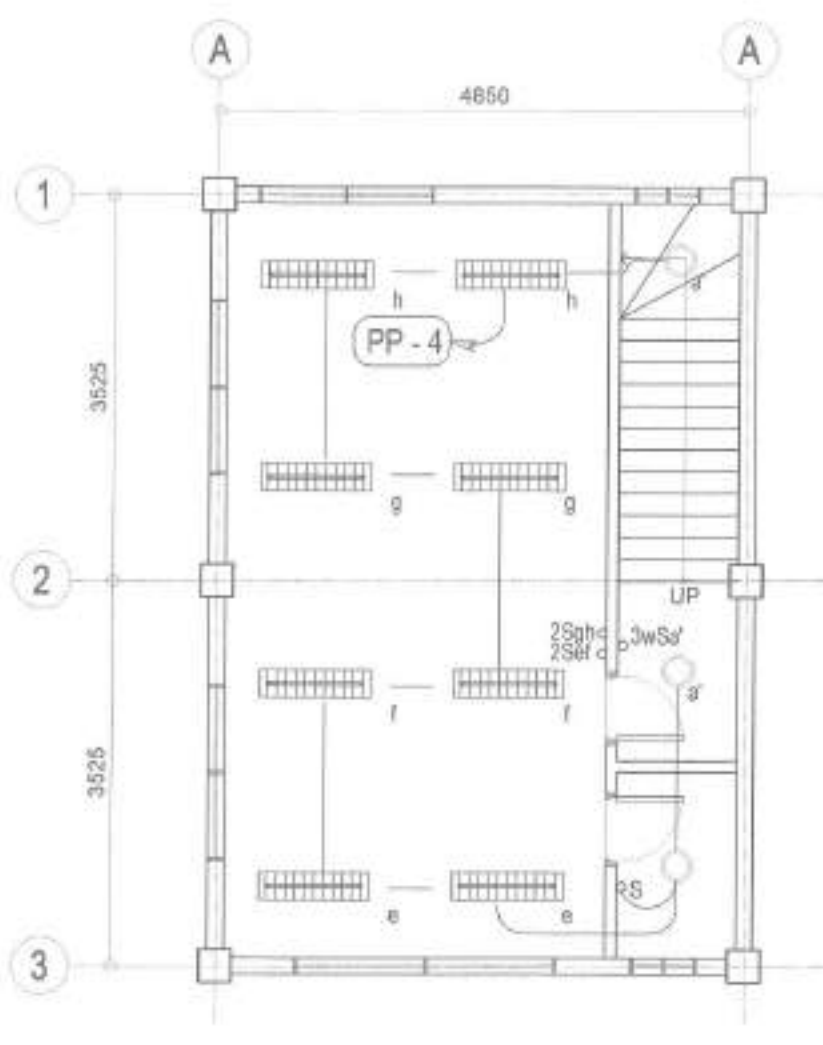
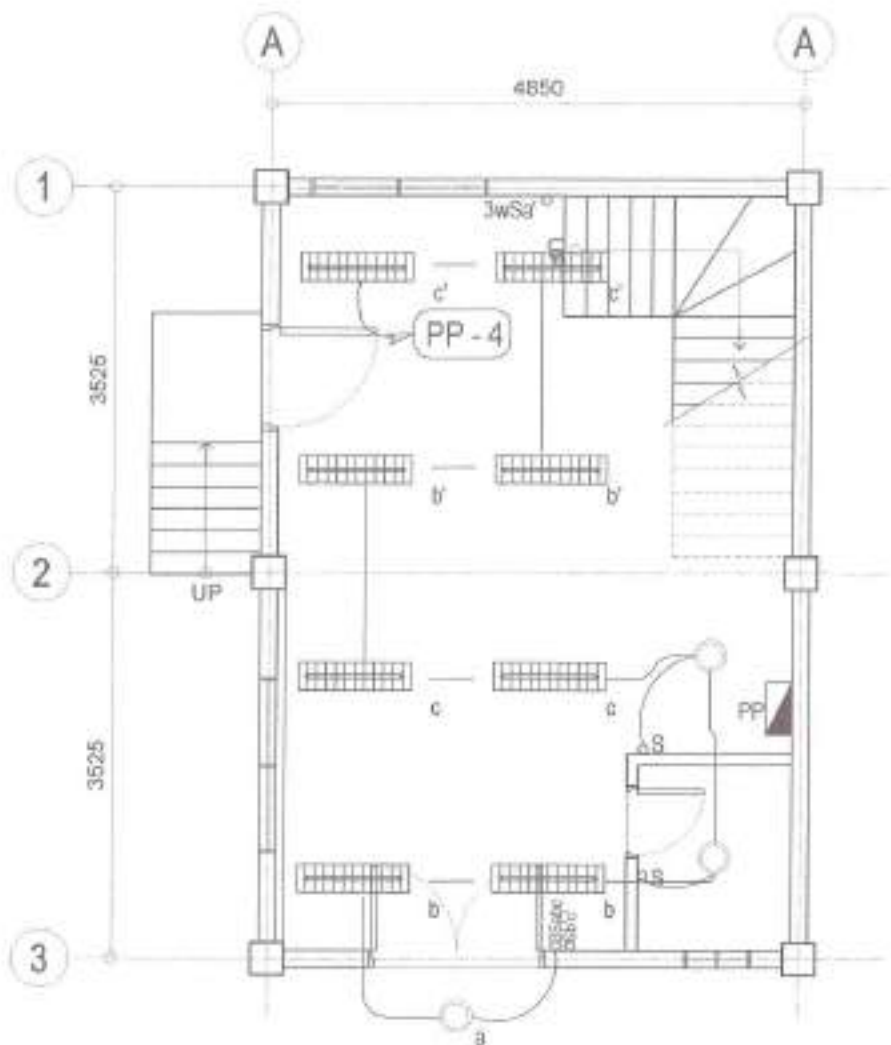
(Signature)
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & FIELD TRAINING DIVISION

RECOMMENDING APPROVAL:
(Signature)
ENGR. MARIAN R. VERZOSA, JR.
DEPT. CITY ENGINEERING DIVISION

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTÉ
CITY MAYOR

SHEET CONTENT:
PROPOSED GROUND
POWER LAYOUT
PROPOSED SECOND
FLOOR POWER
LAYOUT

SHEET NO.
EL-04
16/16



NOTE:

1. REPLACEMENT AND REPAIRS OF ALL LIGHTING FIXTURES AND SWITCHES

1 PROPOSED GROUND LIGHTING LAYOUT

SCALE 1:50M

2 PROPOSED SECOND FLOOR LIGHTING LAYOUT

SCALE 1:50M



Republika ng Pilipinas
Lungsod ng Lucena
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF
HAND WASHING FACILITY AND
REHABILITATION OF
SAMPAGUITA DAYCARE CENTER**

LOCATION:
DINAGLAY SAN BARTOLOME, DISTRICT 1, LUCENA CITY

DRAWN BY: ENR. LEO S. DEL ROSARIO
DATE: 10/10/2019
CHECKED BY: J.A.
SYMBOL NO.:

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING AND DESIGN DIVISION

RECOMMENDING APPROVAL:
ENGR. ISIDORO N. VERZOSA, JR.
VIC. CITY ENGINEERING DEPARTMENT

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR

SHEET CONTENT:
PROPOSED GROUND
LIGHTING LAYOUT
PROPOSED SECOND
FLOOR LIGHTING
LAYOUT

SHEET NO.
EL-03
15/16

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

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

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

Daywork Schedule

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

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

Provisional Sums

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

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

Signature Box

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

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

PROJECT TITLE : PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 / AREA X

LOCATION : BARANGAY BAGBAG, SAN BARTOLOME AND GULOD, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00006

DURATION : Sixty (60) Calendar Days

BREAKDOWN OF COST

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
REMARVILLE DAYCARE CENTER, BRGY. BAGBAG					
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	ARCHITECTURAL WORKS				
IV	SANITARY / PLUMBING WORKS				
V	ELECTRICAL WORKS				
IBAYO DAYCARE CENTER, BRGY. BAGBAG					
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
SAMPAGUITA DAY CARE CENTER, BRGY. SAN BARTOLOME					
I	GENERAL REQUIREMENTS				
II	CONSTRUCTION OF HAND WASHING FACILITY				
III	REHABILITATION OF DAY CARE CENTER				
POCC DAYCARE CENTER, BRGY. GULOD					
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
VII	MECHANICAL WORKS				

TOTAL COST P

LUMP SUM BID IN WORDS : _____

Contractor : _____

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT : PROPOSED REHABILITATION OF REMARVILLE DAY CARE CENTER

LOCATION : BARANGAY BAGBAG, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00006

SCOPE OF WORK :

- I General Requirements include temporary enclosure, billboard, scaffolding, construction safety and health and clearing, hauling and disposal of construction materials and debris.
- II Site Works include removal works and cleaning and clearing for painting preparation.
- III Architectural Works include floor finishes, wall finishes, ceiling works, painting works, installation of doors and windows, fabricated materials, letterings and cleaning and re-touching of painting with simple design.
- IV Sanitary / Plumbing Works include installation of roughing-ins, fixtures and accessories.
- V Electrical Works include installation of roughing-ins, wirings, devices and fixtures.
- VI All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	36	sq.m.		
	Temporary Enclosure Around the Construction Area (h= 2.4m)	40	l.m.		
				DIRECT COST I	₱
II	SITE WORKS				
	Removal Works				
	Removal of Dilapidated Door	5	set	₱	₱
	Removal of Dilapidated Window	15	sq.m.		
	Removal of Tiles	57	sq.m.		
	Removal of Ceiling	54	sq.m.		
	Removal of Hanging Cabinet	2	sq.m.		
	Removal of Water Closet	1	set		
	Removal of Sink	1	set		
	Removal of Lavatory	1	set		
	Removal of Urinal	1	set		
	Cleaning and Clearing for Painting Preparation	251	sq.m.		
				DIRECT COST II	₱
III	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping Preparation of Tile Works	51	sq.m	₱	₱
	300mm x 300mm Non-Skid Homogeneous Tiles	3	sq.m		
	400mm x 400mm Non-Skid Homogeneous Tiles	49	sq.m		
	Wall Finishes				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	300mm x 300mm Homogeneous Tiles	9	sq.m		
	Ceiling Works				
	6mm thk Fiber Cement Board including Metal Framing	57	sq.m		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (1.00m x 2.10m) Swing Type Flush Hollow Core Painted Finish	1	set	₱	₱
	D2 - (0.70m x 2.10m) Swing Type Flush Hollow Core Painted Finish	1	set		
	D3 - (0.60m x 2.10m) Swing Type PVC Door Painted Finish (Kitten White) w/ 400mm X 300mm Louver	1	set		
	D4 - (0.60m x 2.10m) Swing Type Flush Hollow Core Painted Finish	1	set		
	D5 - (0.80m x 2.10m) Swing Type Flush Hollow Core Painted Finish	1	set		
	Door jamb				
	D1 - (1.60m x 2.10m) Swing Type Flush Hollow Core Door	1	set		
	D2 - (1.00m x 2.10m) Swing Type Flush Hollow Core Door	1	set		
	D4 - (0.60m x 2.10m) Swing Type Flush Hollow Core Door	1	set		
	D5 - (0.80m x 2.10m) Swing Type Flush Hollow Core Door	1	set		
	Hardware and Accessories				
	Door Hinges, Heavy Duty, Stainless	15	set		
	Door Knob, Lever Type, Stainless	5	set		
	Installation of Windows				
	W1 -(1.80m x 1.20m) Sliding Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories	6	set		
	W2 -(0.90m x 1.20m) Sliding Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories	1	set		
	W3 -(0.5m x 0.50m) Awning Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories	2	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)				
	Fence - Wall	42	sq.m	₱	₱
	Fence - Column	4	sq.m		
	Flat Latex Paint Finish				
	Ceiling	57	sq.m		
	Interior Wall	122	sq.m		
	Epoxy Enamel Paint Finish (Metal Surfaces)				
	Gate	1	sq.m		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Fence - Screen	11	sq.m		
	Door Grilles	1	sq.m		
	Fabricated Materials				
	Hanging Cabinet (Day Care Center)	2	sq.m		
	Hanging Cabinet (Storage Room)	2	sq.m		
	Hanging Cabinet (Pantry)	5	sq.m		
	Standing Cabinet	3	sq.m		
	Shelf	3	sq.m		
	Letterings				
	200mm Stainless Steel Lettering "REMARVILLE DAY CARE CENTER"	23	set		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱
	Cleaning and Re-touching of Painting with Simple Design	86	sq.m	₱	₱
				Subtotal	₱
				MATERIALS COST IV	₱
				LABOR COST IV	
				DIRECT COST IV	₱
IV	SANITARY / PLUMBING WORKS				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	4	piece	₱	₱
	75 mm Ø, PVC Pipe with Hub	6	piece		
	100mm Ø, PVC Pipe with Hub	8	piece		
	50mm Ø, P-Trap	4	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	30	piece		
	75mm Ø, 1/8 Bend	5	piece		
	75mm Ø, 1/4 Bend	2	piece		
	75mm Ø x 75mm Ø, Tee	2	piece		
	100mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 50mm Ø, Wye	6	piece		
	100mm Ø x 75mm Ø, Wye	1	piece		
	100mm Ø x 100mm Ø, Wye	1	piece		
	50mm Ø, Cleanout with Adapter	3	piece		
	50mm Ø No Hub Coupling	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	5	piece		
	20mm Ø, Elbow	14	piece		
	20mm Ø, Coupling	5	piece		
	20mm Ø, Tee Equal	10	piece		
	20mm Ø, Female Threaded, Tee	4	piece		
	Valves and Appurtenances				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	20mm Ø Gate Valve, PPR	3	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm, Stainless	2	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever Type, Stainless, Heavy Duty (Water Efficient)	7	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy-Duty (Water Efficient)	1	set		
	Lavatory, Faucet, Lever Type, Stainless Heavy Duty (Water Efficient)	1	set		
	Lavatory, Kiddy, Wall Hung	1	set		
	Urinal, Kiddy, Flush Valve-Type (Water Efficient)	1	set		
	Water Closet, Kiddy, Tank-Type (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single Way, Stainless Steel	2	piece		
	Angle Valve, Two Way, Stainless Steel	1	piece		
	Flexible Hose, Stainless Steel	3	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	4	can		
	All Around Sealant	4	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	2	roll		
	Waste Cloth	2	kg		
				MATERIALS COST V	₱
				LABOR COST V	
				DIRECT COST V	₱
V	ELECTRICAL WORKS				
	Roughing-ins				
	20mmØ PVC Pipe	15	piece	₱	₱
	25mmØ PVC Pipe	15	piece		
	20mmØ PVC Flexible Hose	80	l.m.		
	Fittings and Accessories				
	20mmØ PVC Adaptor	20	piece		
	20mmØ PVC Locknut & Bushing	20	piece		
	25mmØ PVC Adaptor	20	piece		
	25mmØ PVC Locknut & Bushing	20	piece		
	50mm x 100mm PVC Utility Box	10	piece		
	100mm x 100mm PVC Junction Box with Cover	20	piece		
	Wires and Cables				
	3.5mm² THHN Wire	240	l.m.		
	Lighting Fixtures (Energy Efficient)				
	18W LED Bulb	2	set		
	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories	7	set		
	E27 Receptacle	2	set		
	T8, 18w LED Tube light, Box type	2	set		
	Wiring Devices and Other Fixtures				

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT : PROPOSED REHABILITATION OF IBAYO DAY CARE CENTER

LOCATION : BARANGAY BAGBAG, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00006

SCOPE OF WORK :

- I General Requirements include temporary enclosure, billboard, scaffolding, construction safety and health and clearing, hauling and disposal of construction materials and debris.
- II Site Works include removal works and cleaning, clearing for painting preparation, termite treatment and earthworks.
- III Civil / Structural Works include concrete works, masonry works, metal works and roofing works.
- IV Architectural Works include floor finishes, wall finishes, ceiling works, painting works, installation of doors and windows, fabricated materials and letterings.
- V Sanitary / Plumbing Works include installation of roughing-ins, fixtures and accessories.
- VI Electrical Works include installation of roughing-ins, wirings, devices and fixtures.
- VII All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	3	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	39	sq.m.		
	Temporary Enclosure Around the Construction Area (h= 2.4m)	18	l.m.		
				DIRECT COST I	₱
II	SITE WORKS				
	Removal Works				
	Removal of Dilapidated Door	4	set	₱	₱
	Removal of Dilapidated Window	11	sq.m.		
	Removal of Tiles	70	sq.m.		
	Removal of Ceiling	96	sq.m.		
	Removal of Under Counter Cover	2	sq.m.		
	Removal of Roofing and Accessories	102	sq.m.		
	Removal of Water Closet	1	set		
	Removal of Lavatory	1	set		
	Removal of Urinal	1	set		
	Cleaning and Clearing for Painting Preparation	169	sq.m.		
	Excavation for Structures	4	cu.m		
	Backfill and Compaction	2	cu.m		
				Subtotal	₱
	Termite Treatment	1	gal	₱	₱

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				MATERIALS COST II	₱
				LABOR COST II	
				DIRECT COST II	₱
III	CIVIL / STRUCTURAL WORKS				
	Concrete Works				
	On-Site Mix Concrete, 21 Mpa, 3/4" Gravel @ 28 Days	2	cu.m	₱	₱
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	10mm Ø Column	215	kg		
	12mm Ø Wall Footing	38	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	16mm Ø Footing	60	kg		
	16mm Ø Column	110	kg		
	Formworks				
	Wall Footing	3	sq.m		
	Footing	4	sq.m		
	Column	7	sq.m		
	Masonry Works				
	100mm CHB Wall Laying, including mortar, reinforcement and two-face plastering	7	sq.m		
	Metal Works				
	Fence				
	12mm Square Bar	205	kg		
	20mm Square Bar	34	kg		
	Gate				
	12mm Square Bar	34	kg		
	50mm Ø X 2mm Round Bar	39	kg		
	38mm Ø Barrel Bolt	1	set		
	Cylindrical Hinge, Heavy Duty	6	piece		
	Miscellaneous & Consumables				
	Acetylene Tank (Refill)	1	tank		
	Cut Off Blade	5	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	2	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-painted G.I. Rib Type Roofing	107	sq.m.		
	Pre-painted G.I. End Flashing	55	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	27	l.m.		
	6mm Thk One-sided Aluminum Foil Thermal Insulation	107	sq.m.		
	Tekscrew	165	piece		
	Blind Rivets	137	piece		
	Silicon Sealant	5	tube		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				MATERIALS COST III	₱
				LABOR COST III	
				DIRECT COST III	₱
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping Preparation of Tile Works	78	sq.m	₱	₱
	300mm x 300mm Non-Skid Homogeneous Tiles	3	sq.m		
	400mm x 400mm Non-Skid Homogeneous Tiles	75	sq.m		
	Wall Finishes				
	300mm x 300mm Homogeneous Tiles	9	sq.m		
	Ceiling Works				
	6mm thk Fiber Cement Board including Metal Framing	101	sq.m		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (0.90m x 2.10m) Swing Type Flush Hollow Core Painted Finish	1	set	₱	₱
	D2 - (0.80m x 2.10m) Swing Type Flush Hollow Core Painted Finish	3	set		
	D3 - (0.60m x 2.10m) Swing Type PVC Door Painted Finish (Kitten White) w/ 400mm X 300mm Louver	1	set		
	Door jamb				
	D1 - (0.90m x 2.10m) Swing Type Flush Hollow Core Door	1	set		
	D2 - (0.80m x 2.10m) Swing Type Flush Hollow Core Door	3	set		
	Hardware and Accessories				
	Door Hinges, Heavy Duty, Stainless	15	set		
	Door Knob, Lever Type, Stainless	5	set		
	Installation of Windows				
	W1 -(1.20m x 1.00m) Sliding Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories	1	set		
	W2 -(4.00m x 1.20m) Sliding Window, 6mm Thk, Clear Tempered Glass White Color Powder Coated Aluminum Frame with Complete Accessories	2	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)	34	sq.m	₱	₱
	Flat Latex Paint Finish				
	Ceiling	101	sq.m		
	Interior Wall	128	sq.m		
	Epoxy Enamel Paint Finish (Metal Surfaces)	6	sq.m		
	Fabricated Materials				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Under Counter Cover	2	l.m.		
	Hanging Cabinet	6	sq.m		
	Standing Cabinet (Day Care Center)	7	sq.m		
	Standing Cabinet (Pantry)	5	sq.m		
	Shelf	4	sq.m		
	Letterings				
	200mm Stainless Steel Lettering "IBAYO DAY CARE CENTER"	18	set		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱
	Cleaning and Re-touching of Painting with Simple Design	26	sq.m	₱	₱
				Subtotal	₱
				MATERIALS COST IV	₱
				LABOR COST IV	
				DIRECT COST IV	₱
V	SANITARY / PLUMBING WORKS				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	2	piece	₱	₱
	75 mm Ø, PVC Pipe with Hub	6	piece		
	100mm Ø, PVC Pipe with Hub	6	piece		
	50mm Ø, P-Trap	5	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	25	piece		
	75mm Ø, 1/8 Bend	5	piece		
	100mm Ø, 1/8 Bend	3	piece		
	75mm Ø, 1/4 Bend	2	piece		
	100mm Ø, 1/4 Bend	1	piece		
	75mm Ø x 75mm Ø, Tee	2	piece		
	100mm Ø x 75mm Ø, Tee	4	piece		
	100mm Ø x 100mm Ø, Tee	1	piece		
	100mm Ø x 50mm Ø, Wye	5	piece		
	100mm Ø x 75mm Ø, Wye	1	piece		
	100mm Ø x 100mm Ø, Wye	1	piece		
	50mm Ø, Cleanout with Adapter	1	piece		
	50mm Ø No Hub Coupling	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	5	piece		
	20mm Ø, Elbow	13	piece		
	20mm Ø, Coupling	5	piece		
	20mm Ø, Tee Equal	7	piece		
	20mm Ø, Female Threaded, Tee	4	piece		
	Valves and Appurtenances				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	20mm Ø Gate Valve, PPR	1	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm, Stainless	1	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever Type, Stainless, Heavy Duty (Water Efficient)	5	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy-Duty (Water Efficient)	1	set		
	Lavatory, Faucet, Lever Type, Stainless Heavy Duty (Water Efficient)	1	set		
	Lavatory, Kiddy, Wall Hung	1	set		
	Urinal, Flush Valve-Type, Kiddy(Water Efficient)	1	set		
	Water Closet, Tank-Type, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single Way, Stainless Steel	2	piece		
	Angle Valve, Two Way, Stainless Steel	1	piece		
	Flexible Hose, Stainless Steel	3	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	4	can		
	All Around Sealant	4	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	2	roll		
	Waste Cloth	2	kg		
				MATERIALS COST V	₱
				LABOR COST V	

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				DIRECT COST V	₱
VI	ELECTRICAL WORKS				
	Roughing-ins				
	20mmØ PVC Pipe	10	piece	₱	₱
	25mmØ PVC Pipe	10	piece		
	20mmØ PVC Flexible Hose	50	l.m.		
	Fittings and Accessories				
	20mmØ PVC Adaptor	16	piece		
	20mmØ PVC Locknut & Bushing	16	piece		
	25mmØ PVC Adaptor	12	piece		
	25mmØ PVC Locknut & Bushing	12	piece		
	50mm x 100mm PVC Utility Box	5	piece		
	100mm x 100mm PVC Junction Box with Cover	10	piece		
	Wires and Cables				
	3.5mm² THHN Wire	180	l.m.		
	Lighting Fixtures (Energy Efficient)				
	18W LED Bulb	1	set		
	600mm x 1200mm, 2 x 18w LED, Troffer Type, with Complete Accessories	7	set		
	E27 Receptacle	1	set		
	T8, 18w LED Tube light, Box type	2	piece		
	Wiring Devices and Other Fixtures				
	Aircon Outlet, Multipurpose outlet 250V/20A	1	set		
	Orbit Fan with Selector Switch	3	set		
	Outlet with Grounding, Two Gang	5	set		
	Switch with Plate and Cover, One Gang	2	set		
	Switch with Plate and Cover, Three Gang	2	set		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Electrical Tape	5	roll		
	Hacksaw Blade	2	piece		
	Torch with Butane	1	set		
				MATERIALS COST VI	₱
				LABOR COST VI	
				DIRECT COST VI	₱

SUMMARY

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	SITE WORKS	
III	CIVIL / STRUCTURAL WORKS	
IV	ARCHITECTURAL WORKS	
V	SANITARY / PLUMBING WORKS	

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
VI	ELECTRICAL WORKS				
NOTE: • Strictly enforce Health Protocols relative to the latest applicable DPWH Memorandum		Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit VAT			TOTAL DIRECT COST ₱
					TOTAL ESTIMATED COST ₱

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF SAMPAGUITA DAY CARE CENTER

LOCATION : BARANGAY SAN BARTOLOME, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00006

SCOPE OF WORKS:

- I GENERAL REQUIREMENTS include billboard, clearing, hauling and disposal of construction materials and debris, construction safety and health equipment, scaffolding, and temporary enclosure
- II CONSTRUCTION OF HAND WASHING FACILITY
 - A Hand Washing Facility includes double sink portable hand washing facility.
 - B Site Works includes chipping of concrete floor.
 - C Civil Works includes restoration of concrete floor.
 - D Sanitary and Plumbing Works include installation of roughing-ins and accessories.
- III REHABILITATION OF LOWER NAWASA DAYCARE CENTER
 - A Site Works include demolition/removal works, cleaning and clearing for painting preparation, and earthworks.
 - B Civil/Structural Works include concrete works, masonry works, metal works and roofing works.
 - C Architectural Works include floor finishes, countertop finishes, ceiling finishes, installation of doors, painting works and letterings.
 - D Sanitary and Plumbing Works include installation of roughing-ins, fixtures and accessories.
 - E Electrical Works include installation of roughing-ins, wirings, lighting fixtures, wiring devices and panel board.
- IV All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	P	P
	Clearing, Hauling and Disposal of Construction Materials and Debris	3	t.l.		
	Construction Safety and Health Equipment	1	unit		
	Scaffolding (Rental)	48	sq.m.		
	Temporary Enclosure around the Construction Area (H=2.4m)	32	l.m.		
				DIRECT COST I	P
II	CONSTRUCTION OF HANDWASHING FACILITY				
A	HANDWASHING FACILITY				
	Double Sink Handwashing Facility	1	unit	P	P
				Direct Cost II A	P
B	SITE WORKS				
	Chipping of Concrete Floor (Plumbing Works)	2	sq.m.	P	P
				Direct Cost II B	P
C	CIVIL WORKS				
	Restoration of Concrete Floor (Plumbing Works)	2	sq.m.	P	P
				Materials Cost II C	P
				Labor Cost II C	
				Direct Cost II C	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
D	SANITARY & PLUMBING WORKS				
	Sewer Line System				
	50mm Ø PVC Pipe with Hub	1	piece	P	P
	50mm Ø x 50mm Ø PVC Tee	1	piece		
	50mm Ø x 50mm Ø PVC 1/4 Bend	3	piece		
	50mm Ø PVC Coupling	1	piece		
	50mm Ø PVC Cleanout	1	piece		
	Water Line System				
	20mm Ø PPR Pipe, PN 16	1	piece		
	20mm Ø x 20mm Ø PPR Tee Equal	1	piece		
	20mm Ø PPR Union Patente	1	piece		
	20mm Ø PPR Coupling	1	piece		
	20mm Ø PPR Male Adaptor	2	piece		
	Valves and Appurtenances				
	20mm Ø PPR Gate Valve	1	piece		
	Miscellaneous and Consumables				
	400cc Solvent Cement	3	can		
	All Around Sealant	1	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	5	roll		
	Waste Cloth	2	kg		
				Materials Cost II D	P
				Labor Cost II D	
				Direct Cost II D	P
				MATERIALS COST II	P
				LABOR COST II	
				DIRECT COST II	P
III	REHABILITATION OF SAMPAGUITA DAYCARE CENTER				
A	SITE WORKS				
	Demolition / Removal Works				
	Removal of Floor and Wall Tiles	29	sq.m.	P	P
	Removal of Ceiling	89	sq.m.		
	Removal of Doors	5	set		
	Removal of Water Closet	1	set		
	Removal of Lavatory	2	set		
	Removal of Kitchen Sink	3	set		
	Chipping of Wall (Electrical Works & Plumbing Works)	6	sq.m.		
	Cleaning and Clearing for Painting Preparation	411	sq.m.		
	Excavation for Structures (Fence)	2	cu.m.		
				Subtotal	P
	Gravel Bedding (Fence)	2	cu.m.	P	P
				Materials Cost	P
				Labor Cost	
				Subtotal	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Backfill & Compaction (Fence)	2	cu.m.	₱	₱
				Subtotal	₱
				Materials Cost III A	₱
				Labor Cost III A	
				Direct Cost III A	₱
B	CIVIL/STRUCTURAL WORKS				
	Concrete Works				
	On Site Mix Concrete, 21MPa, 3/4" Gravel (Fence)	3	sq.m.	₱	₱
	Reinforcing Steel Bars				
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire Ga. 16				
	16mm Ø Reinforcing Steel Bar				
	Footing (Fence)	37	kg		
	Wall Footing (Fence)	27	kg		
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire Ga. 16				
	12mm Ø Reinforcing Steel Bar				
	Wall Footing (Fence)	17	kg		
	10mm Ø Reinforcing Steel Bar				
	Column (Fence)	41	kg		
	Formworks (Column)	5	sq.m.		
	Scaffolding & Shoring (Column)	7	l.m.		
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering (Fence)	4	sq.m.		
	Metal Works				
	Gate				
	25mm x 25mm x 1.5mm Tubular	27	kg		
	50mm x 50mm x 1.5mm Tubular	16	kg		
	Cylindrical Hinge, Heavy-Duty	3	piece		
	38mm Ø Barrel Bolt	1	set		
	Fence				
	25mm x 25mm x 1.5mm Tubular	98	kg		
	50mm x 75mm x 1.5mm Tubular	18	kg		
	Steps				
	50mm x 50mm x 3mm Angle Bar	7	kg		
	Fire Exit	1	set		
	Miscellaneous & Consumables				
	Acetylene Tank Refill	1	tank		
	Cut Off Blade	8	piece		
	Grinding Metal Disc	8	piece		
	Oxygen Tank Refill	1	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-painted Rib-type GI Roofing	59	sq.m.		
	Pre-painted GI Flashing	24	l.m.		
	Pre-painted GI Ridge Roll	7	l.m.		
	Pre-painted GI Gutter	13	l.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	6mm thick One-Sided Aluminum Foil Thermal Insulation	59	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	27	l.m.		
	Tekscrew	286	piece		
	Blind Rivet	141	piece		
	Silicon Sealant	10	tube		
				Materials Cost III B	P
				Labor Cost III B	
				Direct Cost III B	P
C	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping for Preparation of Tiles	26	sq.m.	P	P
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	26	sq.m.		
	Countertop Finishes				
	300mm x 300mm Homogeneous Tiles	4	sq.m.		
	Ceiling Finishes				
	6mm thick Fiber Cement Board including Metal Framing	95	sq.m.		
				Materials Cost	P
				Labor Cost	
				Subtotal	P
	Installation of Doors				
	Doors				
	D1 - 1.6m x 2.1m Double Swing Glass Door on Powder Coated on Powder Coated Aluminum Frame	1	unit	P	P
	D2 - 0.9m x 2.1m Wooden Panel Door	1	unit		
	D3 - 0.9m x 2.1m Wooden Panel Door with Transom	1	unit		
	D4 - 0.7m x 2.1m PVC Door with Louver	2	unit		
	Door Jambs				
	D2 - 0.9m x 2.1m Wooden Door Jamb	1	unit		
	D3 - 0.9m x 2.1m Wooden Door Jamb	1	unit		
	Hardwares and Accessories				
	Door Knob, Lever-type, Heavy Duty, Stainless	4	unit		
	Door Hinge, Heavy Duty, Stainless	12	unit		
				Materials Cost	P
				Labor Cost	
				Subtotal	P
	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)	119	sq.m.	P	P
	Flat Latex Paint Finish				
	Interior Wall	194	sq.m.		
	Ceiling	95	sq.m.		
	Epoxy Enamel Paint Finish				
	Gate	3	sq.m.		
	Fence	8	sq.m.		
	Steps	3	sq.m.		
	Letterings				

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	200mm Stainless Steel Lettering "SAMPAGUITA DAYCARE CENTER"	23	set		
				Materials Cost	P
				Labor Cost	
				Subtotal	P
				Materials Cost III C	P
				Labor Cost III C	
				Direct Cost III C	P
D	SANITARY & PLUMBING WORKS				
	Sewer Line and Storm Drainage System				
	50mm Ø PVC Pipe with Hub	1	piece	P	P
	75mm Ø PVC Pipe with Hub	12	piece		
	75mm Ø x 75mm Ø PVC Wye	1	piece		
	50mm Ø x 50mm Ø PVC 1/4 Bend	1	piece		
	75mm Ø x 75mm Ø PVC 1/4 Bend	4	piece		
	75mm Ø x 75mm Ø PVC 1/8 Bend	1	piece		
	50mm Ø PVC P-Trap	5	piece		
	50mm Ø PVC Coupling	1	piece		
	75mm Ø PVC Coupling	2	piece		
	Water Line System				
	20mm Ø PPR Pipe, PN 16	1	piece		
	20mm Ø PPR 90° Elbow	1	piece		
	20mm Ø PPR Female Threaded Adaptor	4	piece		
	20mm Ø PPR Coupling	1	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless, Heavy Duty (Water Efficient)	2	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever-type, Stainless, Heavy-Duty (Water Efficient)	4	set		
	Lavatory, Wall-Hung	2	set		
	Lavatory Faucet, Lever-type, Stainless, Heavy-Duty (Water Efficient)	2	set		
	Kitchen Sink, Single Tub, Stainless	3	set		
	Kitchen Sink Faucet, Stainless, Heavy-Duty (Water Efficient)	1	set		
	Water Closet, Tank Type (Water Efficient)	1	set		
	Accessories				
	Angle Valve, One-way, Stainless Steel	3	piece		
	Angle Valve, Two-way, Stainless Steel	2	piece		
	Flexible Hose, Stainless Steel	5	piece		
	Miscellaneous and Consumables				
	400cc Solvent Cement	3	can		
	All Around Sealant	2	can		
	Hacksaw Blade	5	piece		
	Teflon Tape	10	roll		
	Waste Cloth	2	kg		
				Materials Cost III D	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Labor Cost III D	
				Direct Cost III D	₱
E	ELECTRICAL WORKS				
	Pipes and Fittings				
	20mm Ø PVC Pipe	50	piece	₱	₱
	20mm Ø PVC Adaptor	100	piece		
	20mm Ø PVC Locknut and Bushing	100	pair		
	20mm Ø PVC Elbow	10	piece		
	50mm x 100mm PVC Utility Box	25	piece		
	100mm x 100mm PVC Junction Box with cover	25	piece		
	Wires and Cables				
	3.5mm² THHN Wire	3	roll		
	3.5mm² TW Wire	2	roll		
	Lighting Fixtures (Energy Efficient)				
	300mm x 1200mm, 2 x 18w LED, Troffer Type with Complete Accessories, Recessed Type	16	piece		
	Pinlight 150mm 18 Watts	6	piece		
	Wiring Devices & Appliances				
	Wall Fan	2	piece		
	Weatherproof Outlet With Ground And Cover, Two-Gang	6	piece		
	Switch with Plate and Cover, One Gang	6	piece		
	Switch with Plate and Cover, Two Gang Switch	3	piece		
	Switch with Plate and Cover, Three Gang Switch	1	piece		
	Switch with Plate and Cover, Three Way One Gang Switch	2	piece		
	Circuit Breaker, 30AT, 2P, 230V, Bolt-on	1	piece		
	Pipe Hangers and Supports				
	Horizontal layout of pipe	25	l.m.		
	Miscellaneous and Consumables				
	400cc Solvent Cement	2	can		
	All around Sealant	2	can		
	Electrical Tape	15	roll		
	G.I Tie Wire	3	kg		
	Hacksaw Blade	3	piece		
	Masking Tape	3	roll		
	Rubber Tape	3	roll		
				Material Cost III E	₱
				Labor Cost III E	
				Direct Cost III E	₱
				MATERIALS COST III	₱
				LABOR COST III	
				DIRECT COST III	₱

SUMMARY

ITEM	WORK DESCRIPTION AND SCOPE OF WORKS	AMOUNT
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ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS				AMOUNT
I II III	GENERAL REQUIREMENTS CONSTRUCTION OF HANDWASHING FACILITY REHABILITATION OF SAMPAGUITA DAYCARE CENTER				P
Note: Stricly enforce health protocols relative to the latest applicable DPWH Memorandum				TOTAL DIRECT COST	P
	Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit VAT				
				TOTAL ESTIMATED COST	P

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT : PROPOSED REHABILITATION OF POCC (HOLY TRINITY) DAY CARE CENTER

LOCATION : BARANGAY GULOD, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00006

SCOPE OF WORK :

- I General Requirements include billboard, clearing, hauling and disposal of construction materials and debris, temporary enclosure, construction safety & health and scaffolding.
- II Site Works include removal works and cleaning/clearing for painting preparation, layout and staking, site clearing and preparation and earthworks.
- III Civil Works include concrete works, masonry works, metal works and roofing works.
- IV Architectural Works include floor finishes, wall finishes, ceiling works, painting works, installation of doors and windows, and fabricated materials and letterings.
- V Sanitary / Plumbing Works include installation of roughing-ins, equipment, fixtures, and accessories.
- VI Electrical Works include installation of roughing-ins, wiring devices and other fixtures.
- VII Mechanical Works include installation of roughing-ins, equipment and accessories.
- IV All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	33	sq.m.		
	Temporary Enclosure Around the Construction Area (H=2.4m)	11	l.m.		
				DIRECT COST I	₱
II	SITE WORKS				
	Removal Works				
	Removal of Countertop	2	sq.m.	₱	₱
	Removal of Dilapidated Ceiling	30	sq.m.		
	Removal of Dilapidated Door	4	set		
	Removal of Dilapidated Roof	66	sq.m.		
	Removal of Dilapidated Window	13	sq.m.		
	Removal of Fence Steel Member	28	sq.m.		
	Removal of Gate	5	sq.m.		
	Removal of Lavatory	1	unit		
	Removal of Tiles	39	sq.m.		
	Removal of Urinal	1	set		
	Removal of Water Closet	1	unit		
	Chipping of Wall for Relocated Window	1	sq.m.		
	Cleaning and Clearing for Painting Preparation	452	sq.m.		
	Layout and Staking	7	sq.m.		
	Site Clearing and Preparation	7	sq.m.		
	Excavation for Structure	5	cu.m		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Subtotal	₱
	Gravel Bedding	1	cu.m.	₱	₱
	Soil Treatment	7	sq.m.		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱
	Backfill and Compaction	2	cu.m.	₱	₱
				Subtotal	₱
				MATERIAL COST II	₱
				LABOR COST II	
				DIRECT COST II	₱
III	CIVIL / STRUCTURAL WORKS				
	Concrete Works				
	On Site Mix Concrete, 21Mpa, 3/4" Gravel @ 28 Days				
	Wall Footing	1	cu.m.	₱	₱
	Column Footing	1	cu.m.		
	Slab on Fill	1	cu.m.		
	Column	2	cu.m.		
	Reinforcing Steel Bar				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	10mmØ Slab on Fill	19	kg		
	10mmØ Column	18	kg		
	12mmØ Wall Footing	22	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	16mmØ Column Footing	54	kg		
	16mmØ Column	160	kg		
	Formworks				
	Column	21	sq.m		
	Shoring				
	Column	17	l.m.		
	Masonry Works				
	150mm CHB Wall Laying, including Mortar, Reinforcing and Two-Face Plastering	31	sq.m.		
	Metal Works				
	Fence Steel Members				
	50mm x 75mm x 4mm Tubular Bar	482	kg		
	25mm x 25mm x 2mm Tubular Bar	459	kg		
	200mm x 200mm x 12mm Base Plate	40	kg		
	18mmØ x 150mm Dyna Bolt	40	piece		
	Steel Gate				
	50mm x 75mm x 4mm Tubular Bar	119	kg		
	25mm x 25mm x 2mm Tubular Bar	26	kg		
	G.I. Sheet Ga.18	35	kg		
	38mm Ø Barrel Bolt	1	set		
	38mm Ø Foot Bolt (Double)	1	set		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Cylindrical Hinge, Heavy Duty	6	piece		
	Kitchen Roof Framing				
	50mm x 100mm x 2mm Tubular Bar	74	kg		
	50mm x 100mm x 2mm C-Purlin	70	kg		
	Handwashing Roof Framing				
	50mm x 100mm x 2mm Tubular Bar	87	kg		
	50mm x 100mm x 2mm C-Purlin	60	kg		
	18mmØ x 150mm Dyna Bolt	12	piece		
	Window Grilles				
	25mm x 25mm x 2mm Tubular Bar	320	kg		
	Miscellaneous & Consumables				
	18mmØ x 150mm Dyna Bolt	52	piece		
	Acetylene Tank (Refill)	3	tank		
	Cut Off Blade	5	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	6	tank		
	Welding Rod	3	box		
	Roofing Works				
	Pre-Painted Rib-type G.I. Roofing	89	sq.m		
	Pre-Painted G.I. Ridgeroll	21	l.m.		
	Pre-Painted G.I. Flashing	71	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	59	l.m.		
	6mm thk One-Sided Aluminum Foil Thermal Insulation	89	sq.m.		
	Silicon Sealant	10	tube		
	Tekscrew	590	piece		
	Blind Rivets	133	piece		
				MATERIAL COST III	₱
				LABOR COST III	
				DIRECT COST III	₱
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping for Preparation of Tile Works	38	sq.m.	₱	₱
	600mm x 600mm Non-Skid Homogeneous Tiles	36	sq.m.		
	400mm x 400mm Non-Skid Homogeneous Tiles	2	sq.m.		
	Wall Finishes				
	400mm x 400mm Homogeneous Tiles	18	sq.m.		
	Ceiling Works				
	6mm thk Fiber Cement Board Including Metal Framing	72	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (0.90m x 2.10m) Panel Door	1	set	₱	₱
	D2 - (0.80m x 2.10m) Flush Door	3	set		
	D3 - (0.70m x 2.10m) PVC Door with Louver	1	set		
	Door jamb				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	D1 - (0.90m x 2.10m) Panel Door	1	set		
	D2 - (0.80m x 2.10m) Flush Door	3	set		
	Hardware accessories				
	Door Hinges, Heavy Duty Stainless	15	set		
	Door Knob, Lever Type, Stainless	5	set		
	Installation of Windows				
	W1 -(2.50m x 1.40m) Sliding Window, 6mm thk Clear Tempered Glass on White Color Powder Coated Aluminum Frame	2	set		
	W2 -(0.80m x 1.00m) Sliding Window, 6mm thk Clear Tempered Glass on White Color Powder Coated Aluminum Frame	1	set		
	W3 -(0.30m x 0.30m) Awning Window, 6mm thk Clear Tempered Glass on White Color Powder Coated Aluminum Frame	2	set		
	W4 -(1.60m x 1.20m) Sliding Window, 6mm thk Clear Tempered Glass on White Color Powder Coated Aluminum Frame	1	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint (Exterior Wall)	199	sq.m.	₱	₱
	Epoxy Enamel Paint Finish (Steel Members)	113	sq.m.		
	Flat Latex Paint Finish				
	Interior Wall	140	sq.m.		
	Ceiling	72	sq.m.		
	Fabricated Materials				
	Hanging Cabinet	5	sq.m.		
	Kiddy Countertop	3	sq.m.		
	Standard Countertop	3	sq.m.		
	Letterings				
	200mm Stainless Steel Signage "POCC (HOLY TRINITY) DAY CARE CENTER"	30	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				MATERIAL COST IV	₱
				LABOR COST IV	
				DIRECT COST IV	₱
V	PLUMBING / SANITARY WORKS				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	3	piece	₱	₱
	75 mm Ø, PVC Pipe with Hub	6	piece		
	100 mm Ø, PVC Pipe with Hub	4	piece		
	50mm Ø, P-Trap	5	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	17	piece		
	75mm Ø, 1/8 Bend	4	piece		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	100mm Ø, 1/8 Bend	2	piece		
	75mm Ø, 1/4 Bend	6	piece		
	75mm Ø x 75mm Ø, Tee	6	piece		
	100mm Ø x 75mm Ø, Tee	6	piece		
	100mm Ø x 50mm Ø, Wye	7	piece		
	100mm Ø x 75mm Ø, Wye	2	piece		
	100mm Ø x 100mm Ø, Wye	2	piece		
	100mm Ø, Cleanout with Adapter	2	piece		
	Waterline System				
	Roughing-Ins				
	25mm Ø, PPR Pipe	4	piece		
	20mm Ø, PPR Pipe	3	piece		
	20mm Ø, Elbow	11	piece		
	25mm Ø, Coupling	4	piece		
	20mm Ø, Coupling	3	piece		
	20mm Ø, Tee Equal	1	piece		
	20mm Ø, Female Threaded, Tee	8	piece		
	20mm Ø, Female Adapter	2	piece		
	25mm Ø, Union Patente	1	piece		
	Valves and Appurtenances				
	25mm Ø Gate Valve, PPR	1	piece		
	25mm Ø Check Valve, PPR	1	piece		
	25mm Ø, Water Meter	1	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm, Stainless	4	set		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever-Type, Stainless, Heavy Duty (Water Efficient)	4	set		
	Kitchen Faucet Lever Type, Stainless (Water Efficient)	1	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Lavatory, Wall Hung, Kiddy	1	set		
	Lavatory Faucet Lever Type, Stainless (Water Efficient)	1	set		
	Urinal, Flush Valve-Type, Kiddy (Water Efficient)	1	set		
	Water Closet, Tank Type w/ Accessories, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single Way, Stainless	3	piece		
	Angle Valve, Two Way, Stainless	1	piece		
	Flexible Hose, Stainless	4	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	4	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	2	roll		
	Waste Cloth	1	kg		
				MATERIAL COST V	₱
				LABOR COST V	
				DIRECT COST V	₱

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
VI	ELECTRICAL WORKS				
	Lighting and Power System				
	Roughing-ins				
	20mmØ PVC Pipe	8	piece	₱	₱
	50mm x 100mm Metal Utility Box	2	piece		
	100mm x 100mm Metal Junction Box with cover	2	piece		
	20mmØ PVC Adaptor	20	piece		
	20mmØ PVC Locknut and Bushing	20	pair		
	Wires and Cables				
	3.5mm² THHN Wire	26	lm		
	5.5mm² THHN Wire	20	lm		
	2.0mm² TW Wire (Green)	13	lm		
	3.5mm² TW Wire (Green)	10	lm		
	Lighting Fixture (Energy Efficient)				
	150mmØ Pinlight LED	1	piece		
	1x18w LED T8 Tube light, Box type	1	unit		
	1 x 18w LED,600mmx1200mm Troffer Fixture, Recessed Mounted	2	unit		
	2 x 18w LED,600mmx1200mm Troffer Fixture, Recessed Mounted	3	unit		
	Wiring Devices				
	Orbit Fan with Selector Switch	2	unit		
	Outlet with Grounding , Two-Gang	3	piece		
	Switch with Plate and Cover, One-Gang	3	piece		
	Switch with Plate and Cover, Three-Gang	1	piece		
	Pipe Hangers & Supports				
	Horizontal layout of pipe	15	lm		
	Panelboards				
	ECB-30AT Main: 30AT, 100AF, 2P, MCB Enclosure: NEMA 3R	1	can		
	Miscellaneous & Consumables				
	400cc Solvent Cement	5	can		
	Electrical Tape	10	piece		
	GI Tie Wire, Ga. 16 (for Wire/Cable Pulling)	3	kg		
	Hacksaw Blade	5	piece		
	Masking Tape	10	piece		
				MATERIAL COST VI	₱
				LABOR COST VI	
				DIRECT COST VI	₱
VII	MECHANICAL WORKS				
	Airconditioning System				
	Refrigerant Pipe System				
	Roughing-Ins				
	6.35mm Ø Copper Coil Tubing	2	l.m	₱	₱
	12.70mm Ø Copper Coil Tubing	2	l.m		
	Condensate Water Drainage System				
	Roughing-Ins				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	20mm Ø X 3m uPVC Pipe	1	piece		
	20mm Ø uPVC Elbow	3	piece		
	Insulation				
	20mmØ x 12mm thick Rubber Foam Insulation	3	l.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Equipment and Accessories				
	Split-type Air Conditioning Unit				
	FCU 3 - Wall Mounted Fan Coil Unit 2.0 HP 1.5 TR, 600 cfm, 1550 W, 230/1/60, R410a, 1/4" Ø L, 3/8" Ø G	1	unit		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Ventilating Fan				
	EF 1 - Duct Mounted Ceiling Ventilation Fan 100 cfm / 20 w / 230 V / 1 ϕ	1	piece	₱	₱
	Pipe Hangers and Supports				
	Condensate Water Drainage System Support	3	l.m.		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Teflon Tape	1	roll		
	Waste Cloth	3	kg		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				MATERIAL COST VII	₱
				LABOR COST VII	
				DIRECT COST VII	₱

SUMMARY

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	SITE WORKS	
III	CIVIL / STRUCTURAL WORKS	
IV	ARCHITECTURAL WORKS	
V	PLUMBING / SANITARY WORKS	
VI	ELECTRICAL WORKS	
VII	MECHANICAL WORKS	

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
NOTE: Strictly enforce Health Protocols relative to the latest applicable DPWH Memorandum	Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit VAT			TOTAL DIRECT COST	₱
					TOTAL ESTIMATED COST

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
and
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and
- (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy*); **and**
- (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**
- (h) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- (i) 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**
- (j) 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**

- (k) 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

- (l) 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**
- (m) 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

- (n) 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

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

Other documentary requirements under RA No. 9184

- (p) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (q) 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**
- (r) 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.

¹ currently based on GPPB Resolution No. 09-2020

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

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]

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

AFFIDAVIT

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

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

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

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

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

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

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

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

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

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

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

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project

Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

Performance Securing Declaration (Revised)

[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]

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

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents] To:
[Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
 - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
 - i. Procuring Entity has no claims filed against the contract awardee;
 - ii. It has no claims for labor and materials filed against the contractor; and
 - iii. Other terms of the contract; or
 - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

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]

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 <u>CONTRACT</u> <u>SOLE CONTRACTOR / SUB-CONTRACTOR/PARTNER IN A</u>
	TOTAL AMOUNT OF CONTRACT (Php)				

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 or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page _____ of _____

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)

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.

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 said 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

