

PHILIPPINE BIDDING DOCUMENTS

**Procurement of
INFRASTRUCTURE
PROJECTS**

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION OF HANDWASHING
FACILITY AND REHABILITATION OF DAY CARE CENTER
AT DISTRICT 6 AREA XI**

**Project number:
22-00004**

**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 Culiat 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 HANDWASHING FACILITY AND REHABILITATION OF DAY CARE CENTER AT DISTRICT 6 AREA XI**, with Project Identification Number **22-00004**.

[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 **Five Million Six Hundred Fifty-Nine Thousand Three Hundred Sixty-Four Pesos & 94/100 Cts. (P 5,659,364.94)**.

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 CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF BALON BATO 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>DPWH duly accredited Materials 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;">5</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;">5</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 CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II 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> </tbody> </table>	Qty.	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	5	Skilled Worker	3 years	3 years	1	Driver	3 years	3 years	5	Laborer	1 year	3 months	Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Engineer	3 years	3 years
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12	<i>[Insert Value Engineering clause if allowed.]</i>																														
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:																														

	<p>a) The amount of not less than Php 113,187.30 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 282,968.25 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.</p>
19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	No additional requirement.
21	Additional Contract Documents relevant to the Project as required: 1. Construction Schedule and S-curve, 2. Manpower Schedule, 3. Construction Methods, 4. Equipment Utilization Schedule, 5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.

1. **Scope of Contract**

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

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

2. **Sectional Completion of Works**

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

3. **Possession of Site**

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

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

4. **The Contractor's Obligations**

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

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

5. **Performance Security**

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in ITB Clause 4.

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the **SCC**.

- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 90 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 CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF BALON BATO DAY CARE CENTER
LOCATION : BARANGAY BALON BATO, DISTRICT 6, 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.

III. CIVIL / STRUCTURAL WORKS

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

IV. ARCHITECTURAL WORKS

A. FLOOR FINISHES

1. **Ceramic Tiles.** Unglazed ceramic tiles shall be hard, dense tiles of homogeneous composition. Its color and characteristics area determined by the materials used in the body, the method of manufacture and the thermal treatment

Tile work shall not be started until roughing-ins for sanitary/plumbing, electrical and other trades have been completed and tested. The work of all other trades shall be protected from damage.

B. WALL FINISHES AND PARTITIONING

1. **Ceramic Tiles.** Glazed tiles and trims shall have an impervious face of ceramic materials fused onto the body of the tiles and trims. The glazed surface may be clear white or colored depending on the color scheme approved by the Engineer. Standard glazes may be bright (glossy), semi-matte (less glossy), matte (dull) or crystalline (mottled and textured; good resistance to abrasion)

Tile work shall not be started until roughing-ins for sanitary/plumbing, electrical and other trades have been completed and tested. The work of all other trades shall be protected from damage

C. CEILING FINISHES

1. **Fiber Cement Board on Metal Frame.** The ceiling materials to be used shall conform to the samples approved by the City Engineer. All ceiling works shall be done by men experienced and qualified to do this particular specialty trade. The installation of ceiling materials shall be in accordance with the detailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work. All joints around electrical outlets, pipes and other works extending through materials shall be sealed with caulking.

D. PAINTING WORKS

1. **Paint Materials.** All types of paint material and other related products shall be subject to test as to material composition by the Bureau of Research and Standard, DPWH or the National Institute of Science and Technology
2. **Tinting Colors.** Tinting colors shall be first grade quality pigment ground in alkyd resin that disperses and mixes easily with paint to produce the color desired. Use the same brand of paint and tinting color to effect good paint body.
3. **Skim coat.** Skim coat shall be fine powder type material like kalsomine that can be mixed into putty consistency, with oil-based primers and paints to fill minor surface dents and imperfections
4. **Paint Schedule.**
 - a. **Exterior Masonry Wall** (plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish
 - b. **Interior Masonry Wall** (plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats latex paint finish
 - c. **Interior Dry Wall**
 - i. 1 coat primer, 2 coats latex paint finish
 - d. **Ceiling Boards**
 - i. 1 coat primer, 2 coats latex paint finish
 - e. **Slab Soffit**
 - i. 1 coat primer, 2 coats latex paint finish
 - f. **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. Marned 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 lifted and removed or protected prior to painting and varnishing works.
6. Application. Paints when applied by brush shall become non-fluid, thick enough to lay down an adequate film of wet paint. Brush marks shall have flowed out after application of paint.

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

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

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

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 equipments 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.

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 panelboards shall not be smaller than 3.5 mm but all homeruns to panelboard more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size
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.

- B. 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.

C. POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS

1. This item shall consist of the furnishing and installation of the power load center unit substation or low voltage switchgear and distribution panelboards at the location shown on the approved Plans complete with transformer, circuit breakers, cabinets and all accessories, completely wired and ready for service.
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. Power Load Center Unit Substation. The Contractor shall furnish and install an indoor-type Power Load Center Unit Substation at the location shown on the approved Plans if required. It shall be totally metal-enclosed, dead front and shall consist of the following coordinated component parts:
 - a. High Voltage Primary Section. High voltage primary incoming line section consisting of the following parts and related accessories.
 - i. One (1) Air-filled Interrupter Switch, 2-position (open-close) installed in a suitable air filled metal enclosure and shall have sufficient interrupting capacity to carry the electrical load. It shall be provided with key interlock with the cubicle for the power fuses to prevent access to the fuses unless the switch is open.
 - ii. Three (3)-power fuses mounted in separate compartments within the switch housing and accessible by a hinged door.
 - iii. One (1) set of high voltage potheads or 3-conductor cables or three single conductor cables.
 - iv. Lightning arresters shall be installed at the high voltage cubicle if required.

Items (i) and (ii) above could be substituted with a power circuit breaker with the correct rating and capacity.
 - b. Transformer Section. The transformer section shall consist of a power transformer with ratings and capacities as shown on the plans. It shall be oil liquid-filled non-flammable type and designed in accordance with the latest applicable standards.

The transformer shall be provided with four (4) approximately 2 1/2 % rated KVA taps on the primary winding in most cases one (1) above and three (3) below rated primary voltage and shall be changed by means of externally gang-operated manual tap changer only when the transformer is de-energized. Tap changing under load is acceptable if transformer has been so designed.

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

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

- c. **Low Voltage Switchboard Section.** The low-voltage switchboard shall be standard modular-unitized units, metal-built, dead front, safety type construction and shall consist of the following:

- i. **Switchboard Housing.** The housing shall be heavy gauge steel sheet dead front type, gray enamel finish complete with frame supports, steel bracings, steel sheet panelboards, removable rear plates, copper busbars, and all other necessary accessories to insure sufficient mechanical strength and safety. It shall be provided with grounding bolts and clamps.
- ii. **Secondary Metering Section.** The secondary metering section shall consist of one (1) ammeter, AC, indicating type; one (1) voltmeter, AC, indicating type, one (1) ammeter transfer switch for 3-phase; one (1) voltmeter transfer switch for 3-phase; and current transformers of suitable rating and capacity.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

I. PANELBOARDS

1. Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
2. Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - a. Rated for environmental conditions at installed location
 - i. Indoor Dry and Clean Locations. NEMA, Type 1.
 - ii. Outdoor Locations. NEMA, Type 3R
 - iii. Kitchen and Wash-Down Areas: NEMA, Type 4X, stainless steel.
 - iv. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids. NEMA, Type 12.
 - v. Outdoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids. NEMA, Type 5R.
 - b. Front Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions, for flush-mounted fronts, overlap box.

- c. **Hinged Front Cover:** Entire front trim hinged to box and with standard door within hinged trim cover.
 - d. **Skirt for Surface-Mounted Panelboards.** Same gauge and finish as panelboard front with flanges for attachment to panelboard wall, and ceiling or floor.
 - e. **Gutter Extension and Barrier:** Same gauge and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
1. **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.
- g. **Directory Card:** Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover
3. **Incoming Mains Location:** Top or Bottom.
4. **Phase, Neutral, and Ground Buses.**
- a. **Material:** Hard-drawn copper, 98 percent conductivity
 - b. **Equipment Ground Bus:** Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
 - c. **Neutral Bus:** 100 percent of phase bus 4. **Extra-Capacity Neutral Bus:** Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads

VII. MECHANICAL WORKS

A. Air Conditioning and Refrigeration System

1. This item shall consist of furnishing and installation of air conditioning, refrigeration and ventilation systems, inclusive of necessary electrical connections, ductworks, grilles, pipes, and condensate drains and all other necessary accessories ready for service in accordance with the Plans and Specifications.
2. The types, sizes, capacities, quantities and power characteristics of the compressor, evaporator, condenser chilled water pump and condenser water pump shall be specified or as shown on the Plans
3. The air conditioning system shall be entirely automatic in operation and shall not require the presence of an attendant except for periodic inspection for lubrication. All equipment and materials shall be inspected upon delivery and shall be tested after installation. Piping shall not be buried, concealed or insulated until it has been inspected, tested and approved. Walls, floors and other parts of the structure and equipment damaged by the Contractor in the prosecution of the work shall be replaced as shown on the Plans.

B. 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)

C. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.

- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- E. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen
- F. 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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TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER

LOCATION: BARANGAY SANGANDAAN, DISTRICT 6, 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

- 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.
- r. **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.

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 particles shall be coarse sharp, clean free from silt, 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 whenever 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 forms 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 embedded in concrete beginning to set or already set shall not be disturbed by vibrators. Consolidation around major imbedded parts shall 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 or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be ground to a smooth surface to remove all joint marks of the form works.
- 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 overlying slab except when indicated.

B. WATERPROOFINGa. **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. **Testing**

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. TILE WORKS**

- a. Both broken and unbroken old tiles must be chip-off
- b. Surface should be smoothen & clean
- c. Ceramic tiles shall be soaked in clean water prior to installation.
- d. Lay the tiles true to profile as specified in the plan.

B. PROVISION OF CABINET

- a. Good Lumber must be 2' x 2' x 10' for support frames and main frames.
- b. 1/2" thick Plywood must be used
- c. Countertop must be finished with 300mm x 300mm Tiles.

C. FABRICATED DOORS & WINDOWS

All doors and windows must be in approved quality as specified in the plan and program of works.

D. 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, puttyed, 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 catalogues 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



KHENNETT E. CHAN

Planning and Programming Division



JOCELYN A. NAONG

Planning and Programming Division

Section VII. Drawings

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

THE SITE



1 LOCATION MAP

SCALE NTS.

THE SITE



2 VICINITY MAP

SCALE NTS.



3 SITE DEVELOPMENT PLAN

SCALE NTS.

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AR-4	HAND WASHING DETAILS UNDER COUNTER CABINET DETAILS LETTERING DETAILS HANDING CABINET DETAILS SHELF DETAILS
AR-5	SINGLE SINK PORTABLE HAND WASHING STALL PLAN AND ELEVATIONS

STRUCTURAL

ST-1	SINGLE SINK PORTABLE HAND WASHING STALL PLANS, ELEVATIONS AND SECTION
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PLUMBING

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PL-2	WATER LINE LAYOUT SANITARY LINE LAYOUT

ELECTRICAL

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MECHANICAL

ME-1	GENERAL NOTES LEGEND AND SYMBOLS MISCELLANEOUS DETAILS
ME-2	AIR CONDITIONING AND VENTILATING SYST AIR CONDITIONING LAYOUT



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND
REHABILITATION OF BALON BATO
DAY CARE CENTER

LOCATION:

BRGY. BALON BATO, DISTRICT 8, QUEZON CITY

DRAWN BY:

DATE: 09/30/21

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

ENGR. ISAAC R. VERZOSA, JR.
DICT. OF PLANNING & PROGRAMMING DIVISION

APPROVED BY:

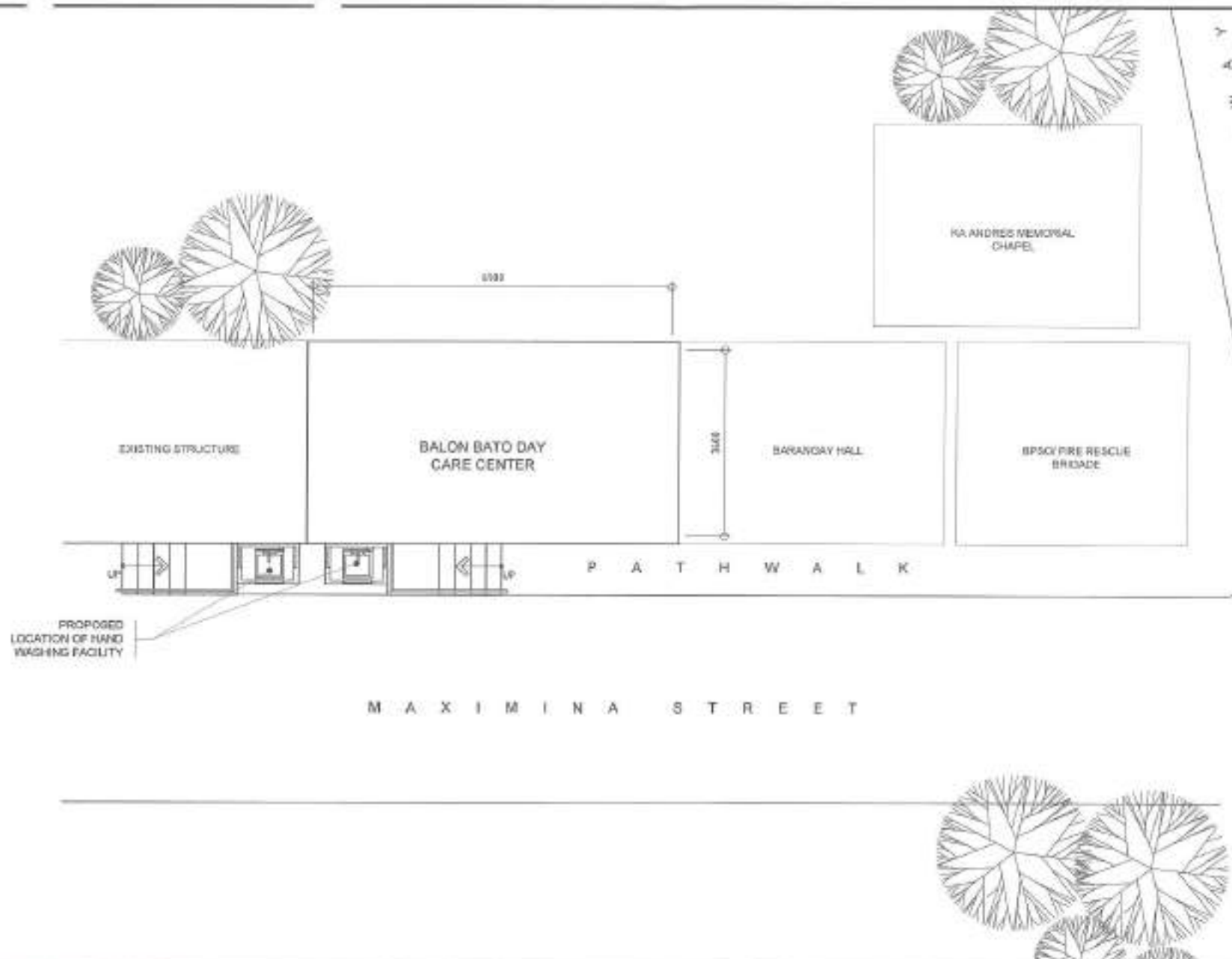
HON. MA. JOSEFINA G. BELMONTE
CITY MAOR

SHEET CONTENT

VICINITY MAP
LOCATION MAP
RESPECTIVE

SHEET NO.

AR-01
01/13



1 | SITE DEVELOPMENT PLAN

SCALE 1:100M



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

LOCATION:
BRGY. BALON BATO, DISTRICT 8, QUEZON CITY

DESIGNED BY: *[Signature]*
DATE: 08.26.21
CHECKED BY: *[Signature]*
REVISION NO.:

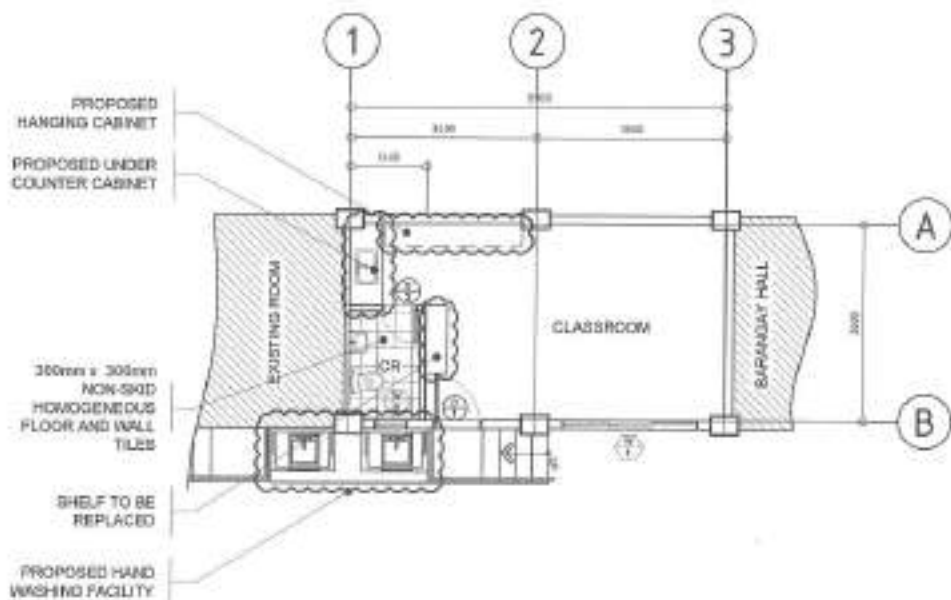
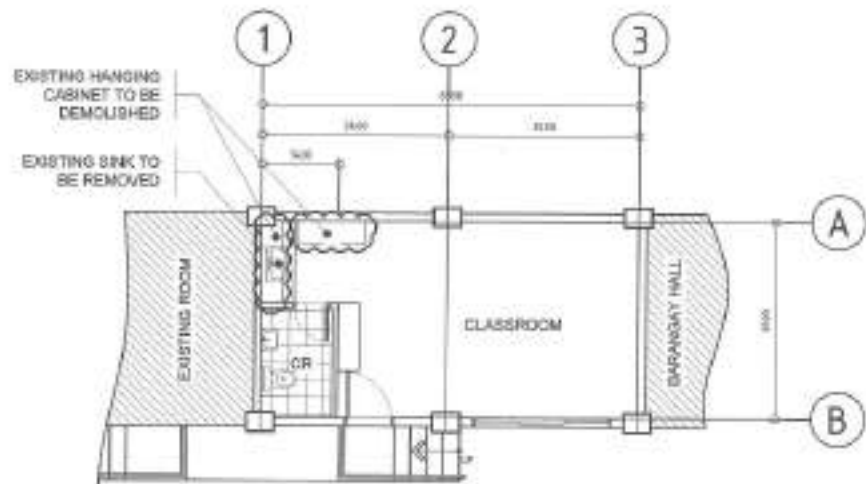
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CIC, CIVIL ENGINEERING DEPARTMENT

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

SHEET CONTENT:
SITE DEVELOPMENT PLAN

SHEET NO.:
AR-02
02 | 13



NOTE:

1. INTERIOR WALLS TO BE REPAINTED
2. ALL DOORS AND WINDOWS TO BE REPLACED
3. HAND WASHING FACILITY TO BE CONSTRUCTED

1 GROUND FLOOR PLAN (EXISTING)

SCALE 1:100M

2 GROUND FLOOR PLAN (PROPOSED)

SCALE 1:100M



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CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND
REHABILITATION OF BALON BATO
DAY CARE CENTER**

DRAWN BY:
DATE: 08.20.21
CHECKED BY:
REVISION NO.:

SUBMITTED BY:

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HEAD, PLANNING AND DESIGN DIVISION

RECOMMENDED APPROVAL:

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CHIEF, CITY ENGINEERING DEPARTMENT

APPROVED BY:

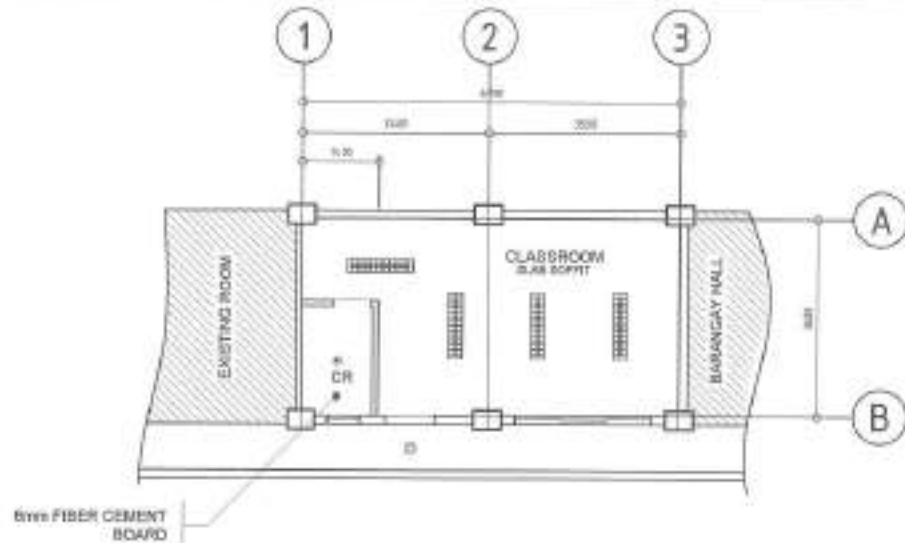
HON. MA. JOSEFINA G. BELMONTE
CITY MAOR

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

SHEET NO.

AR-03

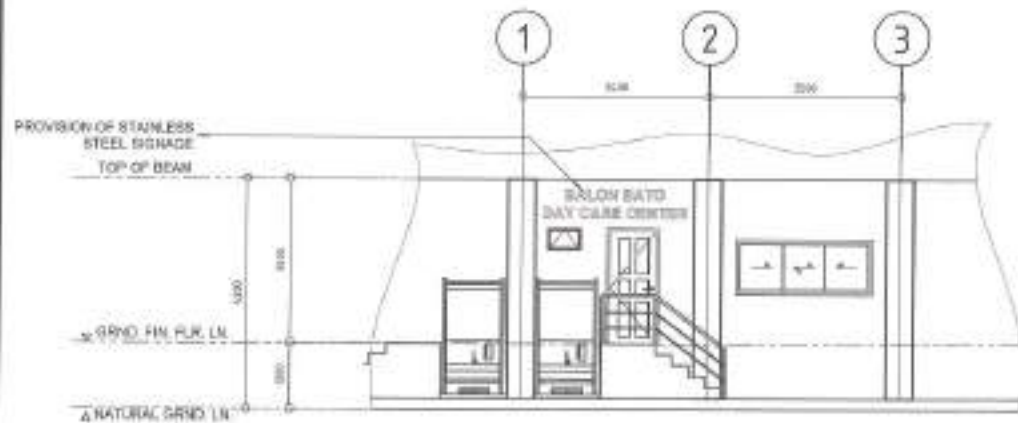
03/13



NOTE:
1. SLAB SOFFIT TO BE REPAINTED

1 REFLECTED CEILING PLAN

SCALE 1:100M



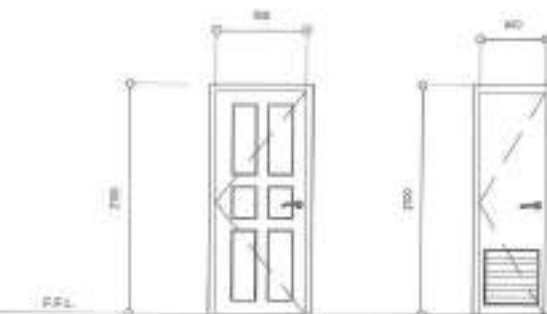
NOTE:
1. PROVISION OF DAY CARE STORAGE

2 FRONT ELEVATION

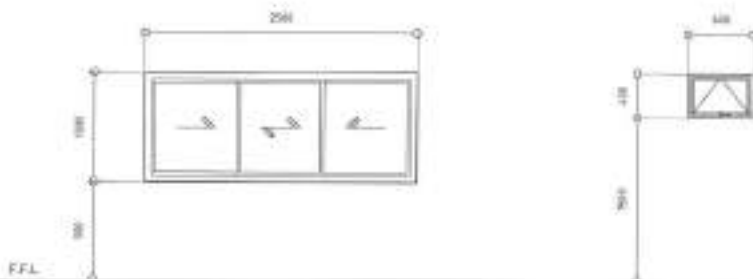
SCALE 1:100M

3 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:50M



NAME	⊕	⊕
NO. OF SETS	1	1
DESCRIPTION	PANEL DOOR	PVC DOOR WITH LOWER
LOCATION	CLASSROOM	CR
HARDWARE	COMPLETE ACCESSORIES DOOR HINGE, LEVER TYPE, SATIN STAINLESS FINISH	COMPLETE ACCESSORIES DOOR HINGE, LEVER TYPE, SATIN STAINLESS FINISH



NAME	⊕	⊕
NO. OF SETS	1	1
DESCRIPTION	ALUMINUM FRAME POWDER COATED SLIDING WINDOW WITH 5mm THK CLEAR GLASS	ALUMINUM FRAME POWDER COATED WINDOW WITH 5mm THK CLEAR GLASS
LOCATION	CLASSROOM	CR



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CITY ENGINEERING DEPARTMENT

PROJECT FILE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND
REHABILITATION OF BALON BATO
DAY CARE CENTER

LOCATION:
BWOY, BALON BATO, DISTRICT 6, QUEZON CITY

DRAWN BY:

DATE: 06/30/21

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

ENGR. JOSEAN R. VERZOSA, JR.
CITY ENGINEERING DEPARTMENT

APPROVED BY:

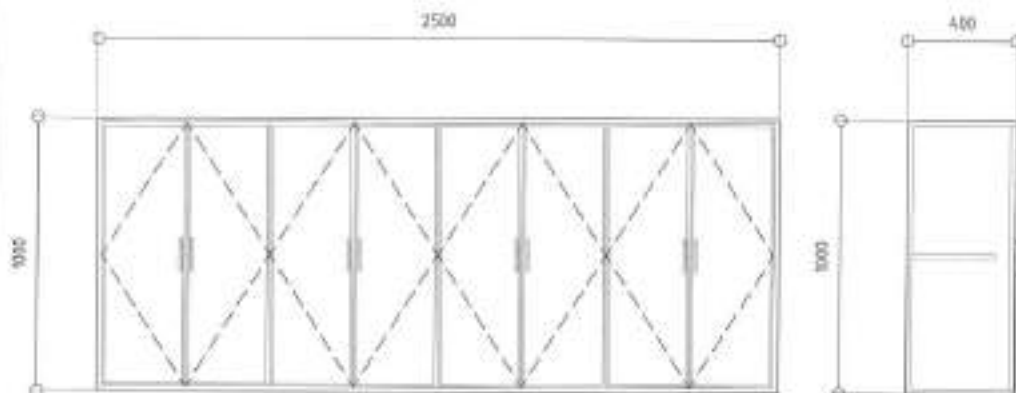
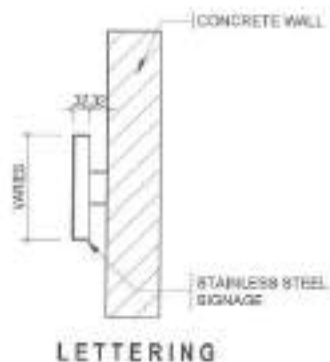
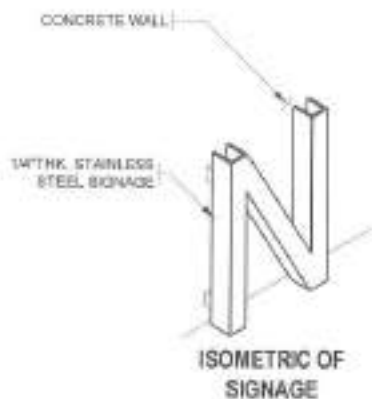
HON. NA. JOSEFINA G. BELMONTÉ
CITY MAYOR

SHEET CONTENT:

REFLECTED-CEILING PLAN
FRONT ELEVATION
SCHEDULE OF DOORS
AND WINDOWS

SHEET NO.:

AR-04
04/13

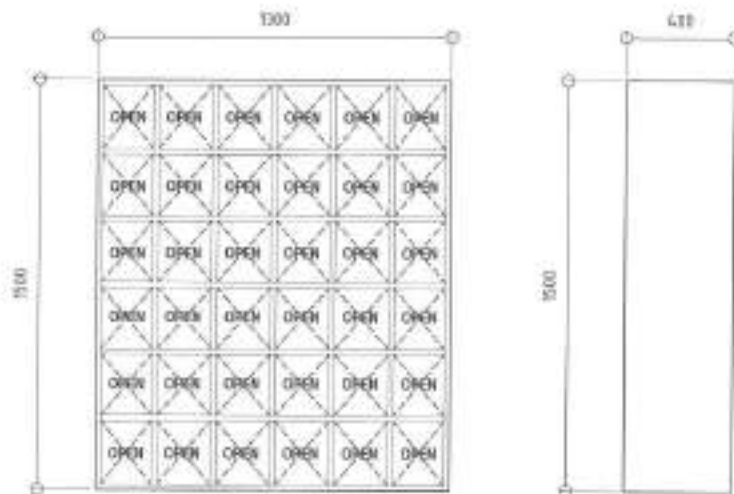
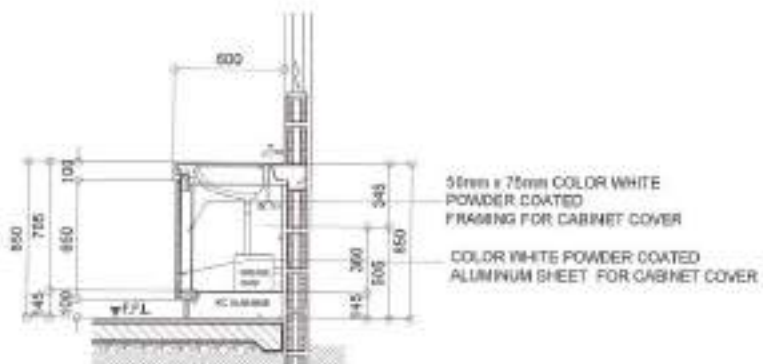


1 LETTERING DETAILS

SCALE 1:30M.

3 HANGING CABINET DETAILS

SCALE 1:30M.



2 UNDER COUNTER CABINET DETAILS

SCALE 1:30M.

4 SHELF DETAILS

SCALE 1:30M.



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

LOCATION:
BPOY, BALON BATO, DISTRICT 8, QUEZON CITY

DESIGN BY: *[Signature]*
DATE: 09-30-21
CHECKED BY: *[Signature]*
REVISION(S):

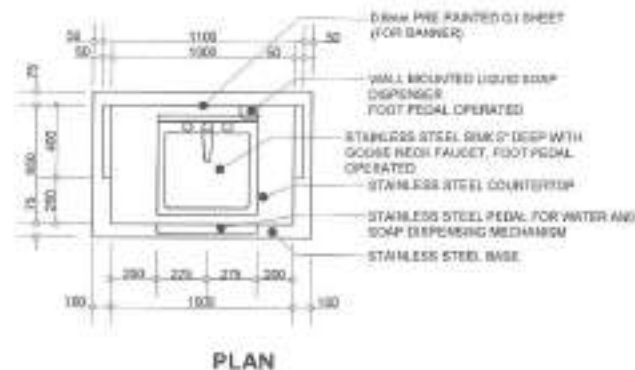
SUBMITTED BY: *[Signature]*
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HEAD, PLANNING PROGRAM AND DESIGN

RECOMMENDING APPROVAL: *[Signature]*
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APPROVED BY: *[Signature]*
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CITY MAJOR

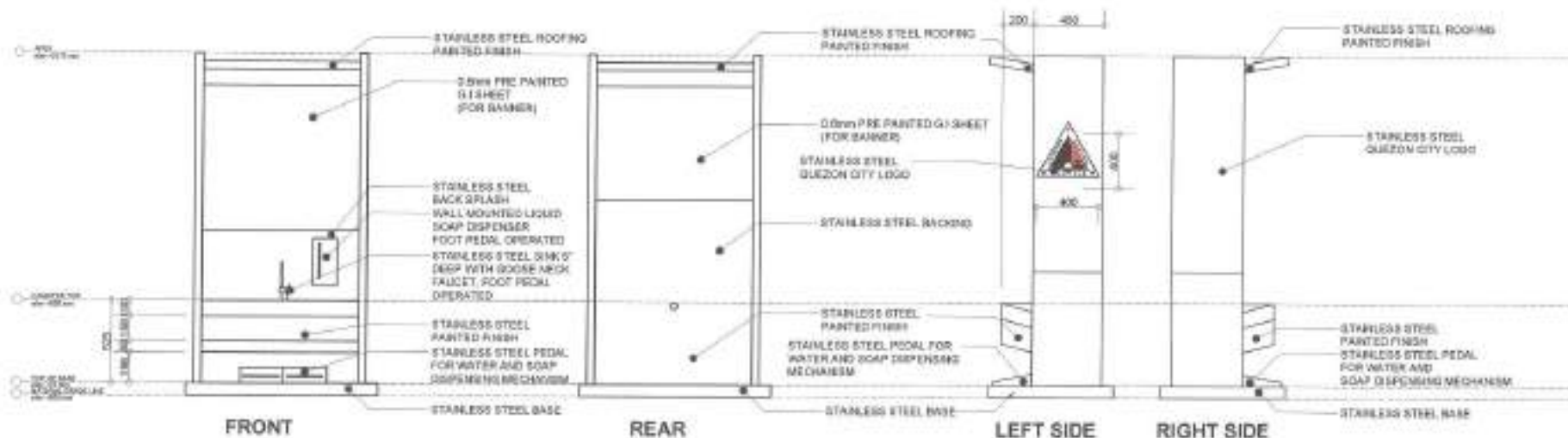
SHEET CONTENT:
LETTERING DETAILS
UNDER COUNTER CABINET
HANGING CABINET
DETAILS
SHELF DETAILS

SHEET NO.:
AR-05
05/13



1 SINGLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE: 1:30ms



2 ELEVATIONS

SCALE: 1:30ms



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

LOCATION:
BAYAN BALON BATO, DISTRICT 8, QUEZON CITY

DRAWN BY: *[Signature]*
DATE: 06/20/21
CHECKED BY: *[Signature]*
REVISIONS:

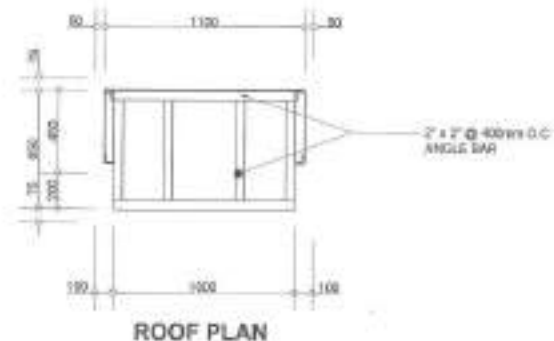
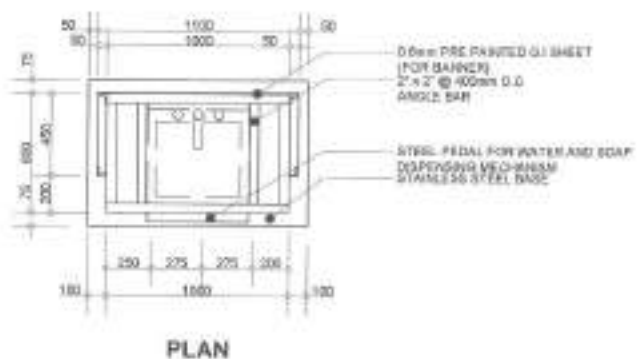
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DCC, CIVIL ENGINEERING DEPARTMENT

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

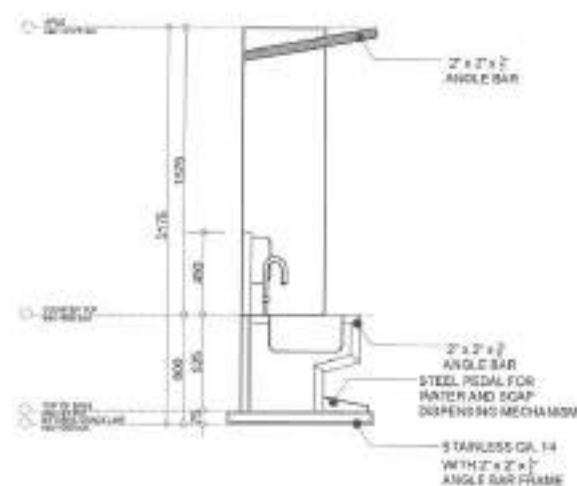
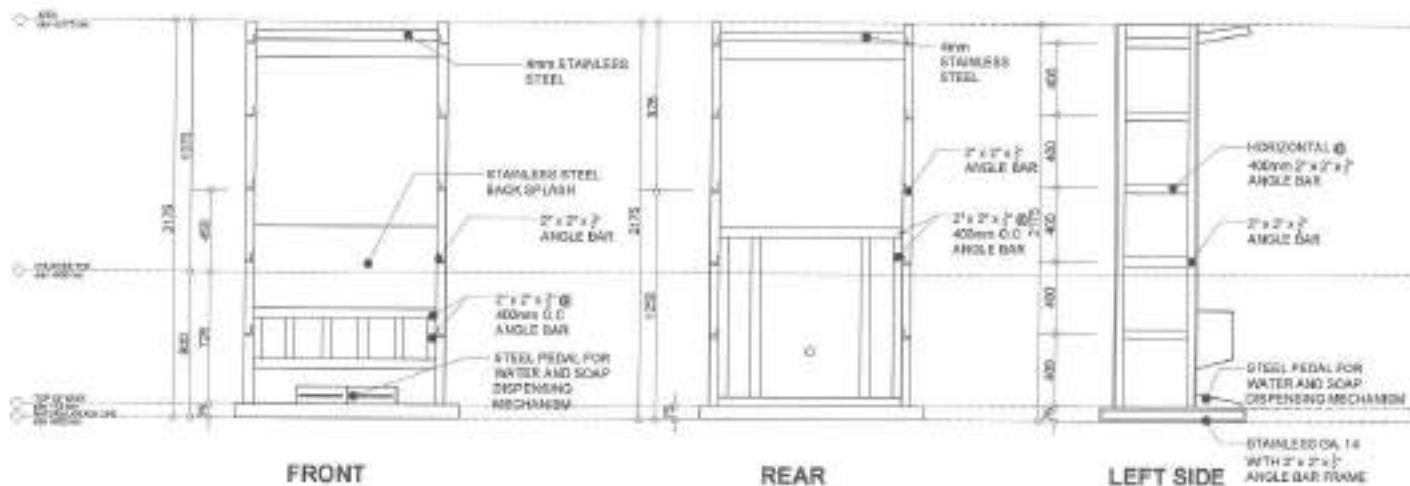
SHEET CONTENT:
SINGLE SINK PORTABLE HAND WASHING STALL PLAN ELEVATIONS

SHEET NO.
AR-06
06/13



1 SINGLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE: 1:200ms



2 ELEVATIONS

SCALE: 1:300ms

3 TYPICAL SECTION

SCALE: 1:300ms



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

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

LOCATION:
STREET, BALON BATO, DISTRICT 8, QUEZON CITY

DRAWN BY: *[Signature]*
DATE: 06/30/11
CHECKED BY: *[Signature]*
REVISED BY:

SUBMITTED BY:
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ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROFESSIONAL SERVICES

RECOMMENDING APPROVAL:
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D/C, CITY ENGINEERING DEPARTMENT

APPROVED BY:
[Signature]
HON. MA. JOSEFINA O. BELMONT
CITY MAJOR

SHEET CONTENT:
SINGLE SINK PORTABLE HAND WASHING STALL PLAN, ELEVATIONS, TYPICAL SECTION

SHEET NO.:
ST-01
07/13

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 formulas 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.

I. FIXTURES AND OTHER LEGEND

FD	FLOOR DRAIN
RD	ROOF DRAIN
SHO	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



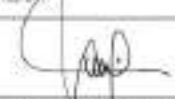

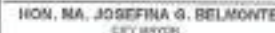
	UNION PATENT
	CHECK VALVE
	BUILDING SEWER
	BUILDING DRAIN
	WASTE LINE
	AREA DRAIN/CATCH BASIN
	FLOOR DRAIN
	DIAMETER
	WASTE LINE
	WATER LINE
	GATE VALVE
	DECK DRAIN
	CLEANOUT
	PIPE DOWN
	PIPE UP
	MILLIMETER
	GATE VALVE
	AREA DRAIN/CATCH BASIN
	WATER CLOSET
	LAVATORY
	MANHOLE
	HOSE BIBB
	STORM DRAIN LINE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

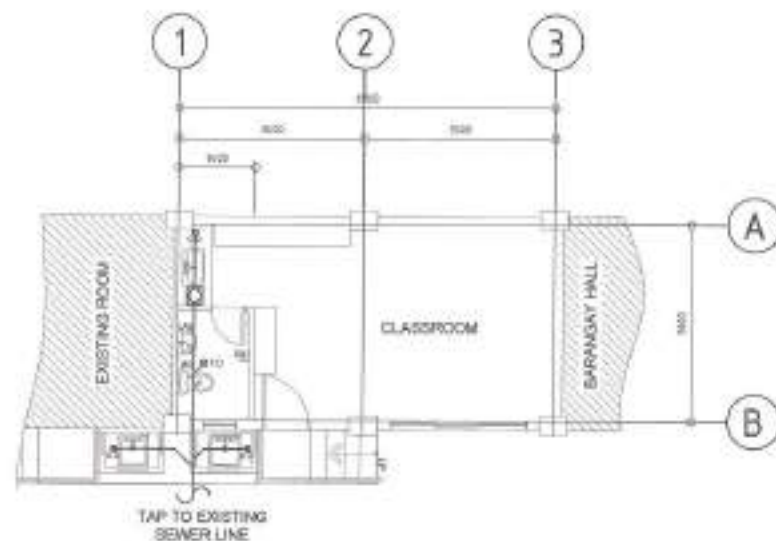
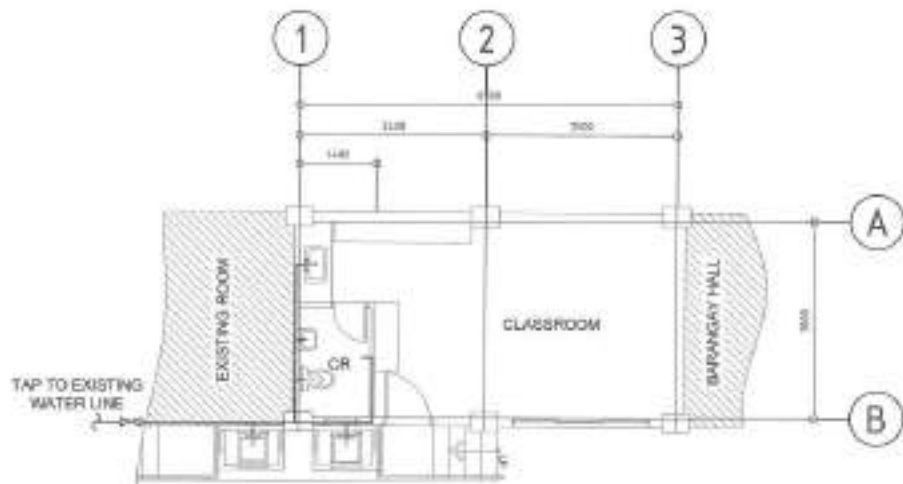
1 GENERAL NOTES

SCALE: NTS.

2 LEGEND AND SYMBOLS

SCALE: NTS.

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDED APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF BALON BATO DAY CARE CENTER	DATE: 08/20/21					MINORAL NOTES (LOADS AND SYMBOLS)
LOCATION: GRID: BALON BATO, DISTRICT 6, QUEZON CITY	REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMS DIVISION		ENGR. MORGAN R. VERZOSA, JR. CC, CITY ENGINEERING DEPARTMENT		HON. MA. JOSEFINA G. BELMONTTE CITY ENGINEER	



- NOTE:
 1. PLUMBING FIXTURES TO BE REPLACED
 2. KITCHEN SINK AND GREASE TRAP TO BE REPLACED

1 WATER LINE LAYOUT

SCALE 1:100M

2 SANITARY LAYOUT

SCALE 1:20M



Republika ng Pilipinas
 Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

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

LOCATION:
 BRGY. BALON BATO, DISTRICT 6, QUEZON CITY

DRAWN BY: *[Signature]*
 DATE: 08/20/21
 CHECKED BY: *[Signature]*
 REFERENCE NO:

SUBMITTED BY:
[Signature]
ENGR. LEO S. DEL ROSARIO
 HEAD, PLUMBING PROGRAM OFFICE

RECOMMENDED APPROVAL:
[Signature]
ENGR. TSAGANI R. VERZOSA, JR.
 OC, CITY ENGINEERING DEPARTMENT

APPROVED BY:
[Signature]
HON. MA. JOSEFINA O. BELMONTE
 CITY MAOR

SHEET CONTENT:
 WATER LINE LAYOUT
 SANITARY LAYOUT

SHEET NO:
PL-02
09/13

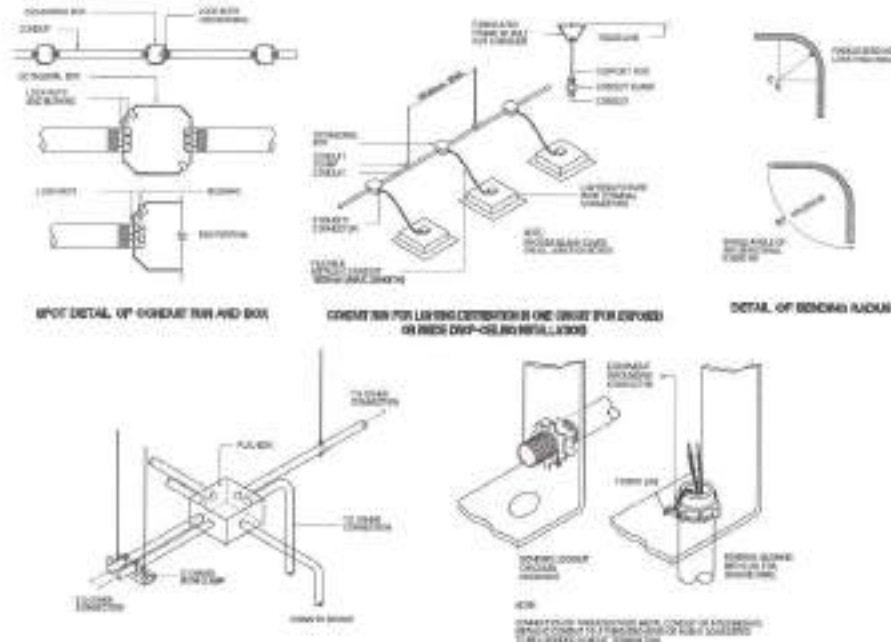
- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER, RANK 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 IMC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILLIMETERS.
- FULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE 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 220V.
- PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED 'GFCI' ON THE PLAN.
- ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDING AND BONDED.
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

RECEPTACLE OUTLET - 300 MM AFF, 180MM ABOVE WORKING COUNTER.
 TELEPHONE OUTLET - 300 MM AFF
 CATV OUTLET - 300 MM AFF
 LIGHTING SWITCH - 1800 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 REQUIREMENTS AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.
- ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLINE DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE THEIR ACTUAL LOCATION, LEVEL AND DISTANCE OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY SOGGED 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 3.5 SQ. MM. THW-2 COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 3.5 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

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

- BOXES, WIRE, BUTTERS, ENCLOSURE SHALL BE PAINTED FROM STEEL WITH THICKNESS AS FOLLOWS:
 MAXIMUM WIDTH OF THE WIDEST SURFACE SHALL:
 UP TO INCLUDING 152.40 MM GA 16 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
 OVER 152.40 MM BUT NOT OVER 457.20 GA 14 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
 OVER 457.20 MM BUT NOT OVER 762 MM GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
 OVER 762 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 ELECTRICIAN, ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PCAB. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 60 HERTZ, 220V AC NOMINAL.
- 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 RADIUS MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, ISOLATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS 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 2 OHMS.



2 MISCELLANEOUS DETAILS

SCALE NTS.

	CIRCUIT LINE		LED SINGLE TROFFER LIGHTING, 300x120mm, SURFACE MOUNTED
	ACU OUTLET		LED RECESSED PINLIGHT
	DUPLEX OUTLET		LED SURFACE MOUNTED PINLIGHT
	WALL FAN		CIRCUIT HOMERUN
	THREE GANG SWITCH		PANELBOARD
	ONE GANG SWITCH		SECONDARY RACK 2 SPOOL
	SERVICE ENTRANCE CAP		

1 GENERAL NOTES

SCALE NTS.

3 LEGEND AND SYMBOLS

SCALE NTS.



Republika ng Pilipinas
 Lungsod ng Quezon
 CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
**PROPOSED CONSTRUCTION OF HAND
 WASHING FACILITY AND
 REHABILITATION OF BALON BATO
 DAY CARE CENTER**

LOCATION:
 BMDY BALON BATO, DISTRICT 5, QUEZON CITY

DRAWN BY:
 DATE: 08-30-21
 CHECKED BY:
 NUMBER/NO.:

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

 ENGR. ROGELIO R. VERZOSA, JR.
 DIR. CITY ENGINEERING DEPARTMENT

APPROVED BY:

 HON. MA. JOSEFINA B. BELMONTE
 CITY MAYOR

SHEET CONTENT:
 DRAWING NOTES
 SYMBOLS, LEGENDS & DETAILS
 LEGEND AND SYMBOLS

SHEET NO.

 EL-01
 10/13

LPPB

LOCATION: GROUND FLOOR

MOUNTING: MEMA1, RECEIVED WITH GRAY POWDERED COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND BUS

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP	AT	SIZE OF	
						WIRES	CONDUITS
1	6-LIGHTING DEVICES	230	600	2.61	30	4-1.5mm ² THIN COATED WIRE IN GROUNDING WIRE	R 20mmx PVC PIPE
2	3-CONVENIENCE OUTLET	230	540	2.35	30	4-1.5mm ² THIN COATED WIRE IN GROUNDING WIRE	R 20mmx PVC PIPE
3	5-CONVENIENCE OUTLET	230	900	3.91	30	4-1.5mm ² THIN COATED WIRE IN GROUNDING WIRE	R 20mmx PVC PIPE
4	2-HP AIR CONDITIONING UNIT (SLOW START)	230	2160	12.0	30	4-5mm ² THIN COATED WIRE IN GROUNDING WIRE	R 25mmx PVC PIPE
5	SPARE	230	-	-	30	-	-
6	SPARE	230	-	-	30	-	-
		4830	2038				

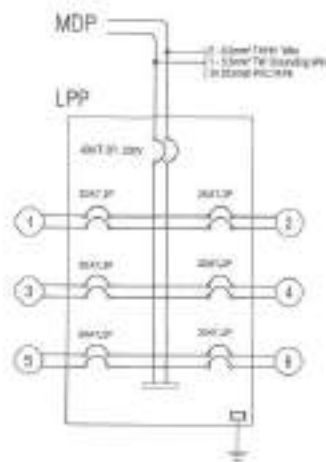
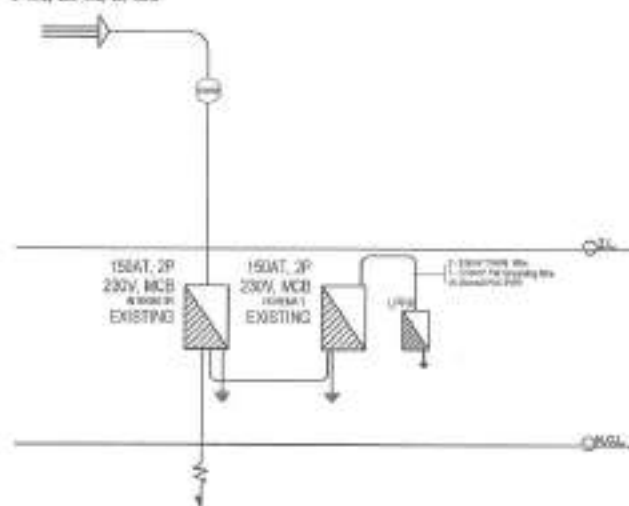
COMPUTATION :

$$I_T = \frac{4830}{230} = 21.0 \text{ AMP}$$

$$I_T = 21.0 \text{ AMP}$$

OVER-CURRENT PROTECTION:

USE : 40AT, 2P, 230V MOULDED CASE CIRCUIT BREAKER IN MEMA 1

MAIN FEEDER:USE : 2 - 8.0mm² THIN & 1-6.5mm² TW GROUND WIRE IN 25mmx2 PVC PIPE**SERVICE ENTRANCE**UTILITY COMPANY OVERHEAD LINE
3-WIRE, 230 VAC, 2P, 50HZ**1 SCHEDULE OF LOADS**

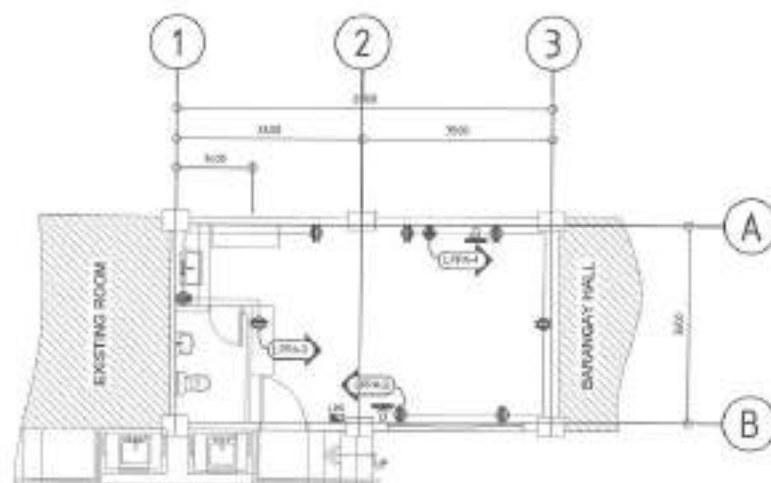
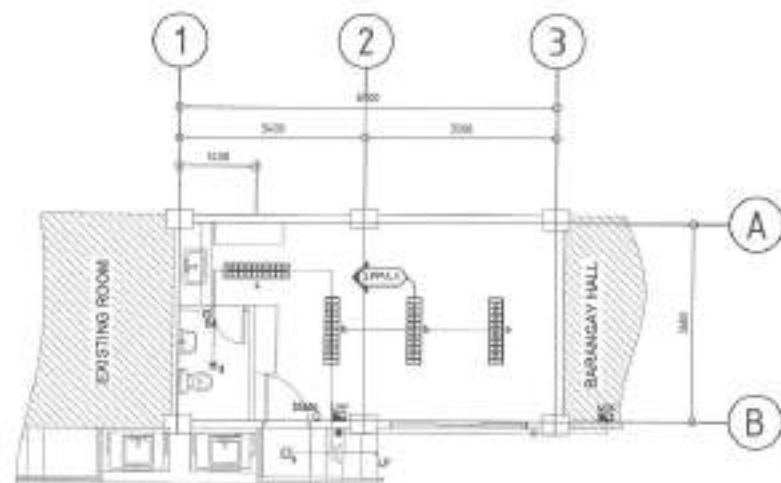
SCALE: NTS.

2 RISER DIAGRAM

SCALE: NTS.

3 SINGLE LINE DIAGRAM

SCALE: NTS.

**4 LIGHTING LAYOUT**

SCALE: 1:100M

5 POWER LAYOUT

SCALE: 1:100M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND
REHABILITATION OF BALON BATO
DAY CARE CENTER

LOCATION:
BAYO, BALON BATO, DISTRICT 6, QUEZON CITY

DRAWN BY:

DATE: 08/20/21

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

ENGR. LEO S. DEL ROSARIO
HAND PLANNING & PROVISIONING DIVISION

RECOMMENDING APPROVAL:

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

APPROVED BY:

HON. MA. JOSEFNA G. BELMONTÉ
CITY MAOR

SHEET CONTENT:

SCHEDULE OF LOADS
RISER DIAGRAM
SINGLE LINE DIAGRAM
LIGHTING LAYOUT
POWER LAYOUT

SHEET NO.:

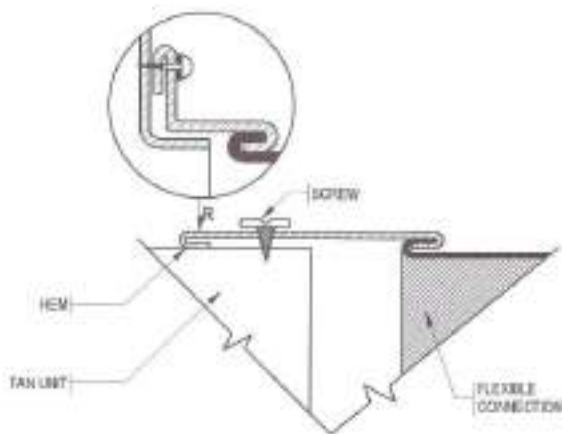
EL-02
11/13

1. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PSME CODE AND THE RULES AND REGULATIONS OF QUEZON CITY.
2. THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS.
3. THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER TRADES. ALL AIRCONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 50% RH.
4. ALL AIRCONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 50% RH.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURERS CATALOGUE, SPECIFICATIONS, SAMPLES, INCLUDING VIBRATION ISOLATORS BEFORE EXECUTION OF WORK.
6. ALL FLOOR SLAB MOUNTED VIBRATING EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS TO PREVENT VIBRATIONS AND NOISE TRANSMISSION.
7. EXHAUST FAN SHALL BE PROVIDED WITH SUITABLE FLEXIBLE CONNECTIONS TO DISCHARGE DUCT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AND COMMISSIONING OF THE WHOLE VENTILATION AND AIRCONDITIONING SYSTEM AND INSTALLATION.
9. ALL POWER WIRING SHALL BE ELECTRICAL AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL.
10. PROVIDE CONTROL WIRING FOR AIRCONDITIONING EQUIPMENT.
11. PROVIDE THERMOSTAT FOR ALL INDOOR UNITS / FAN COIL UNITS.
12. ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD /CB.
13. ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD /CB.
14. PROVIDE GUIDES, HANGERS, AND SUPPLEMENTAL STEEL SUPPORT FOR ALL PIPING, DUCTING AND EQUIPMENTS.
15. PROVIDE PIPE SLEEVES FOR ALL PIPING PASSING THRU BUILDING STRUCTURE.
16. ALL PIPE DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.

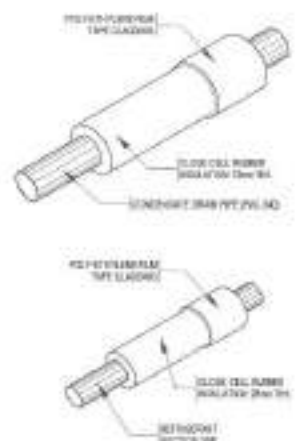
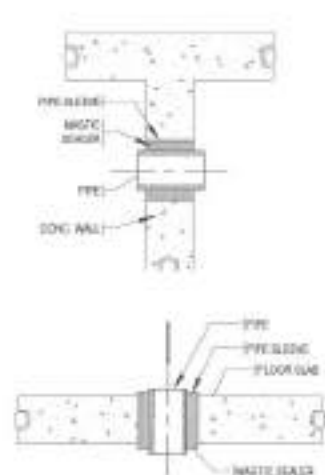
1 GENERAL NOTES

- | | | | |
|--|-------------------------------|-----|-----------------------|
| | - EQUIPMENT DESIGNATION | | - ELBOW UP |
| | - REFRIGERANT PIPE | | - ELBOW DOWN |
| | - WALL MOUNTED INDOOR UNIT | FCU | - FAN COIL UNIT |
| | - WINDOW TYPE AIR CONDITIONER | TAC | - TRANSFER AIR GRILLE |
| | - AIR COOLED CONDENSING UNIT | | |

2 LEGENDS AND SYMBOLS

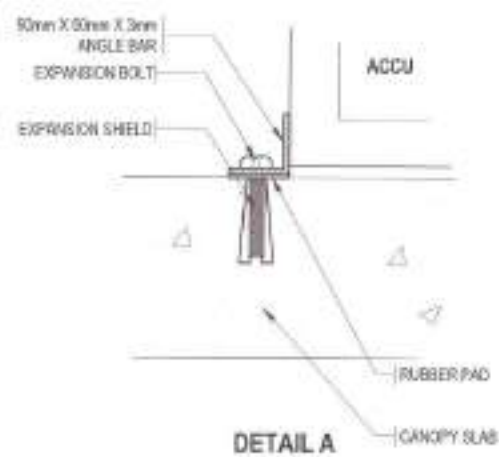
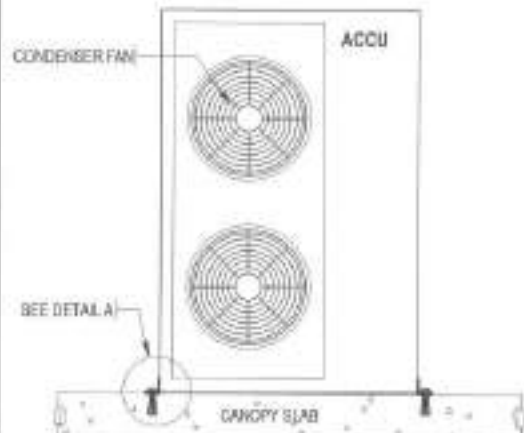


3 FLEXIBLE CONNECTIONS DETAIL



4 PIPE SLEEVES DET.

5 REFRIGERANT/DRAIN PIPE INSULATION DET.



6 ACCU MOUNTING DETAIL

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

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

LOCATION:
BPOY, BALON BATO, DISTRICT 8, QUEZON CITY

DRAWN BY:

DATE: 06.20.21

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

ENGR. LBO S. DEL ROSARIO
HEAD, PLANNING & PROJECT MANAGING DIVISION

RECOMMENDING APPROVAL:

ENGR. BENJAMIN R. VERZOSA, JR.
DCC, CIVIL ENGINEERING DIVISION

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR

SHEET CONTENT:
GENERAL NOTES
LEGENDS AND SYMBOLS
FLEXIBLE CONNECTION DETAILS
PIPE SLEEVES DET.
REFRIGERANT / DRAIN PIPE INSULATION DET.
ACCU MOUNTING DETAILS

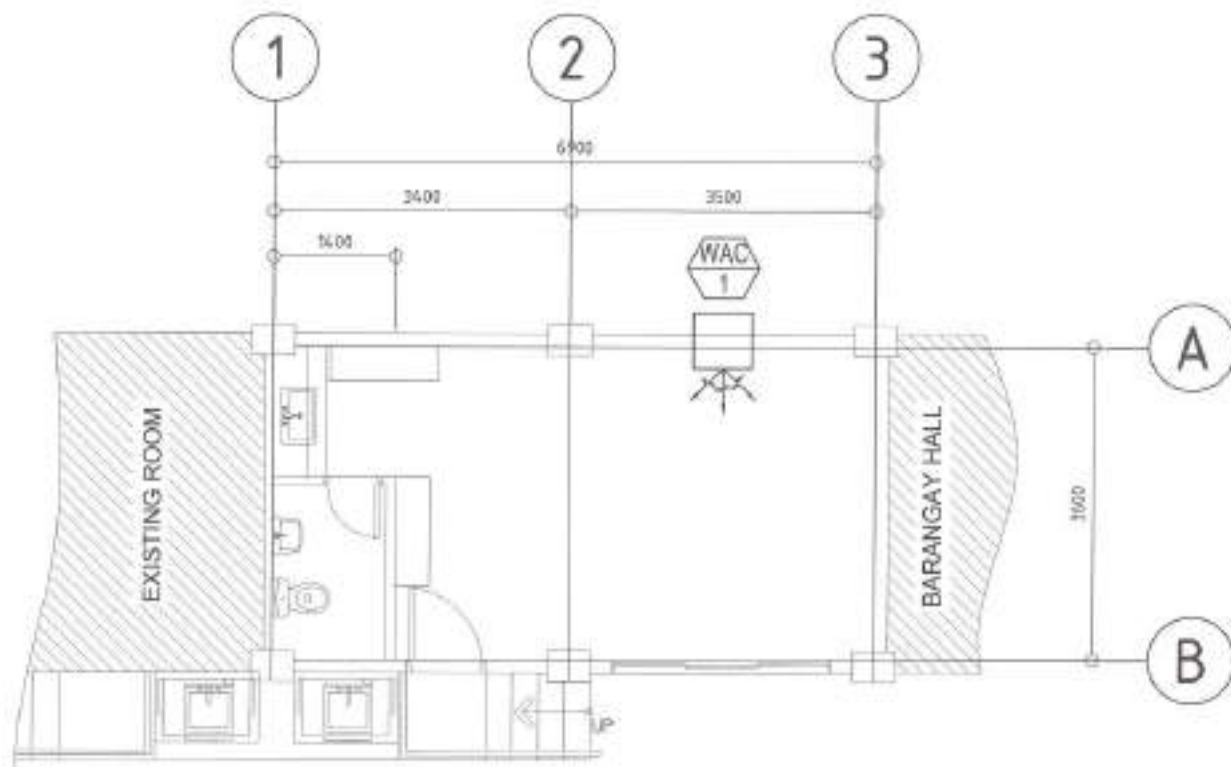
SHEET NO.
ME-01
12/13

WINDOW TYPE AIR-CONDITIONER
AIR-COOLED-CONDENSING UNITS

DESIGNATION	LOCATION	QUANTITY	HP RATING	COOLING CAPACITY	AIR CIRCULATION	POWER INPUT WATTS	ELECTRICAL SUPPLY			REMARKS
							VOLTS	PHASE	HERTZ	
WAC 1	ALL-ORNI DRIFUNG	1SET	2HP	18,000	400CM	1750	200	1Ø	60	REACHABLE HANG GRILLE. EASY TO CLEAN W/TECH FILTER BY MECHANICAL DRAFT TAKE

1 AIRCONDITIONING AND VENTILATING SYSTEM SCHEDULE

SCALE: NTS



2 AIRCONDITIONING LAYOUT

SCALE: NTS



Republika ng Pilipinas
Lungsod ng Quezon
CTV ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND
REHABILITATION OF BALON BATO
DAY CARE CENTER

LOCATION:

ORGY, BALON BATO, DISTRICT 8, QUEZON CITY

DRAWN BY:

DATE: 08/20/21

CHECKED BY:

REVISION NO.:

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

ENGR. JAGUAR R. VERTOSA, JR.
CHIEF, ENGINEERING DIVISION

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR

SHEET CONTENT:

AIR CONDITIONING AND
VENTILATING SYSTEM
SCHEMATIC
AIR CONDITIONING
LAYOUT

SHEET NO.:

ME-02
13/13

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 Cebu
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER

LOCATOR:
BAYI SANGANDAAN DISTRICTS, CEBU CITY

DATE: 18/02/21
DRAWN BY: J. J.
CHECKED BY: J.
REVISION NO.:

SUBMITTED BY:

ENGR. LEO S. BEL ROSARIO
HEAD, PLANNING PROGRAM DIVISION

RECOMMENDED APPROVAL:

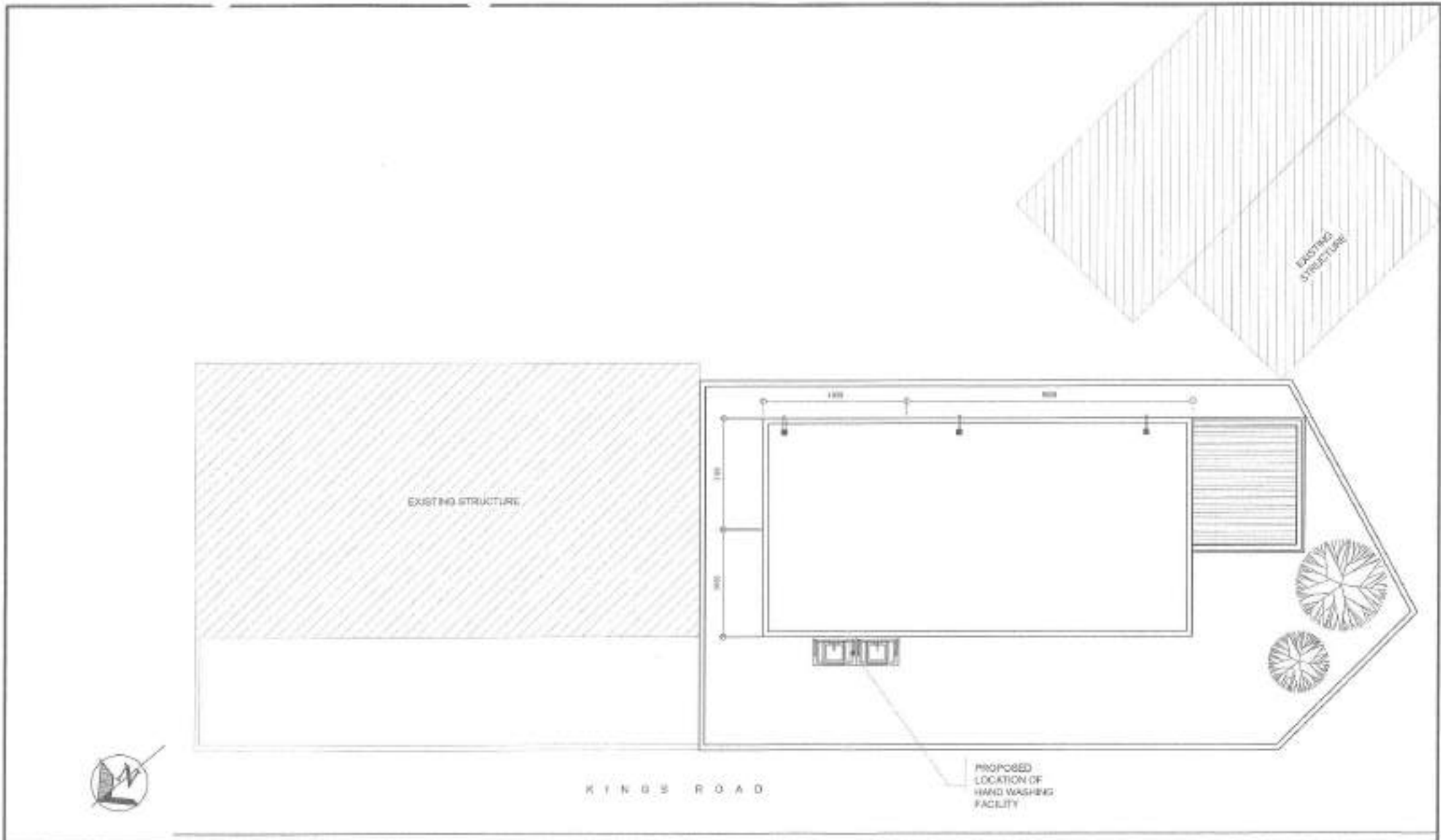
ENGR. RAYMOND R. VERZOSA, JR.
CHIEF, CIVIL ENGINEERING DIVISION

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
CITY MAYER

SHEET CONTENT:
VICINITY MAP
LOCATION MAP
PERSPECTIVE

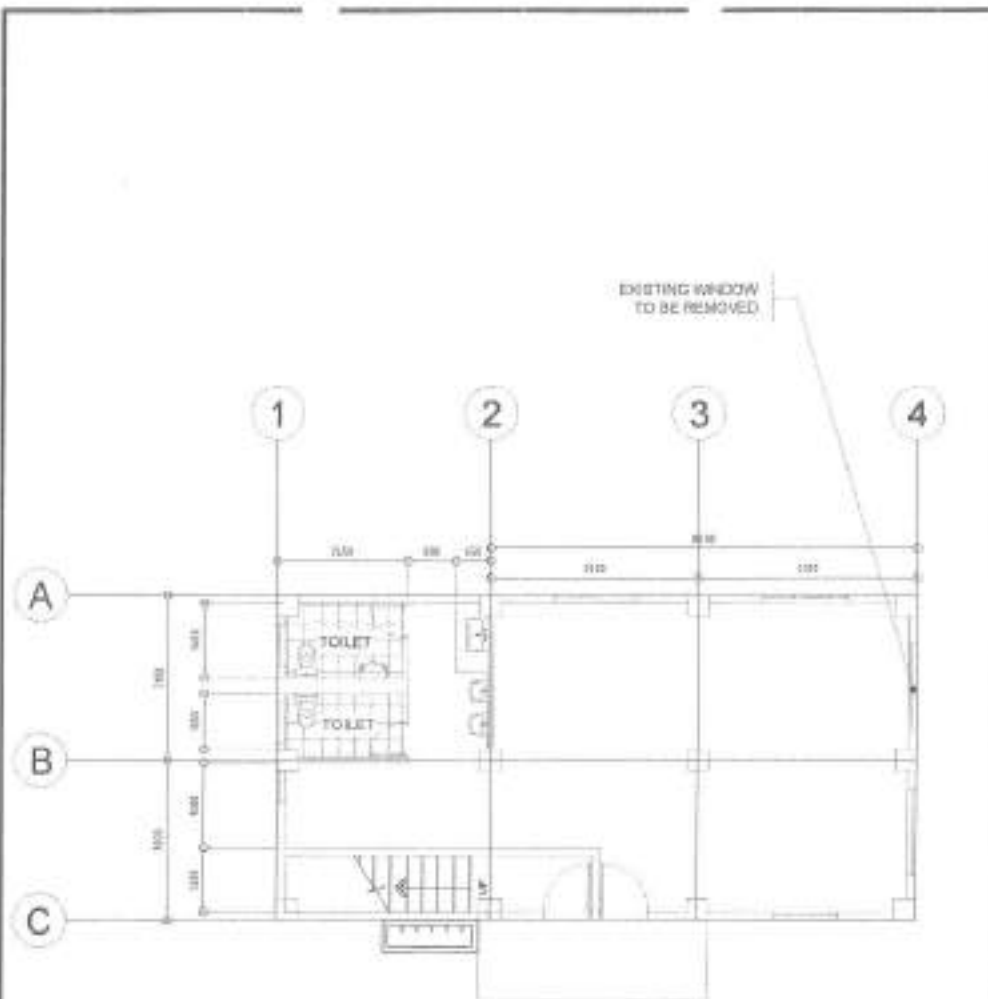
SHEET NO.:
AR-01
01/21



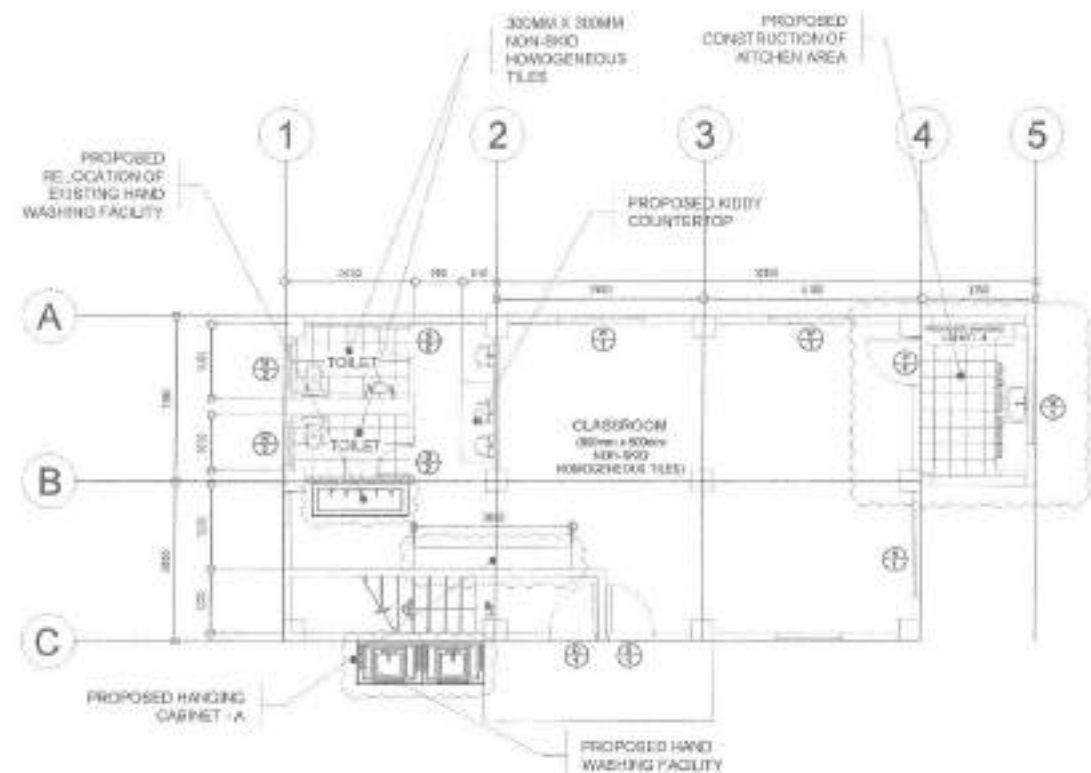
1 | SITE DEVELOPMENT PLAN

SCALE NTS

<p>Republic of the Philippines Lungsod ng Cebu CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DRAWN BY: <i>[Signature]</i>	SUBMITTED BY: <i>[Signature]</i>	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER	DATE: 08/15/21	<i>[Signature]</i>	<i>[Signature]</i>		SITE DEVELOPMENT PLAN	AR-02
	LOCATION: 897 SANGHAWAN DISTRICT, QUEZON CITY	CHECKED BY: <i>[Signature]</i>	ENGINEER: ENGR. LEO S. DEL ROSARIO 1940, PLASANTA 1, PULUMBANG BRIDGE	ENGR. SAGANI R. VERZOSA, JR. 04, C. P. VERZOSA DRIVE, BAYVIEW	HON. MA. JOSEFINA G. BELMORTE (CITY MAYOR)		02/21



NOTE
1. EXISTING HAND WASHING FACILITY TO BE RELOCATED



NOTE:
1. WHOLE STRUCTURE TO BE REPAINTED
2. DOORS AND WINDOWS TO BE REPLACED
3. FLOOR TILES TO BE REPLACED

1 GROUND FLOOR PLAN (EXISTING)

SCALE 1:100M

2 GROUND 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 REDEMPTION I AND REDEMPTION II DAY CARE CENTER

LOCATION:
BRGY. SANSANGAN, DISTRICT 8, QUEZON CITY

DRAWN BY: *JAB*

DATE: 08/20/20

CHECKED BY: *JAB*

REVISION NO.

DESIGNED BY:

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

RECOMMENDED APPROVAL:

ENGR. ROSANI B. VERZOSA, JR.
C.E. CITY ENGINEERING DEPARTMENT

APPROVED BY:

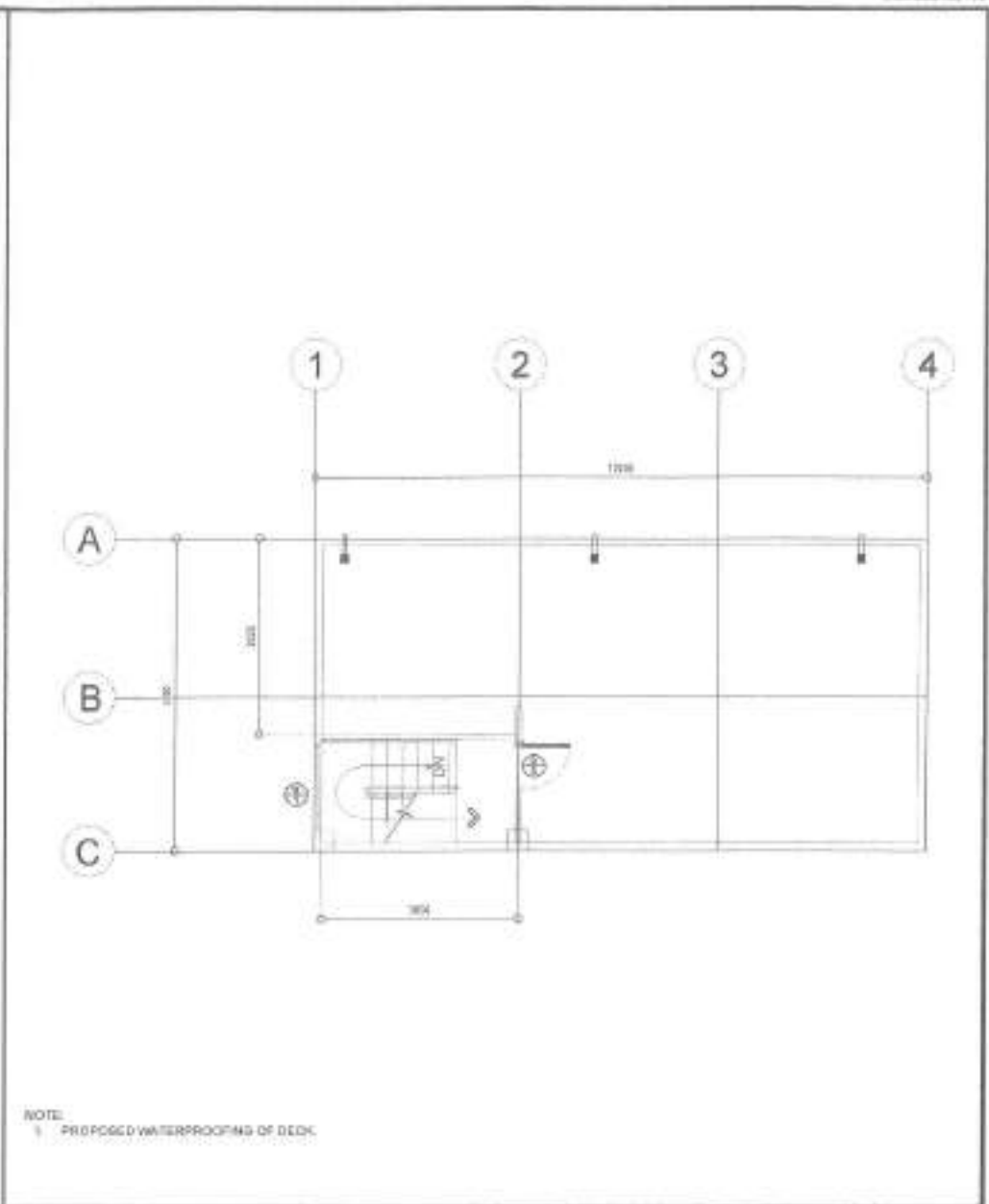
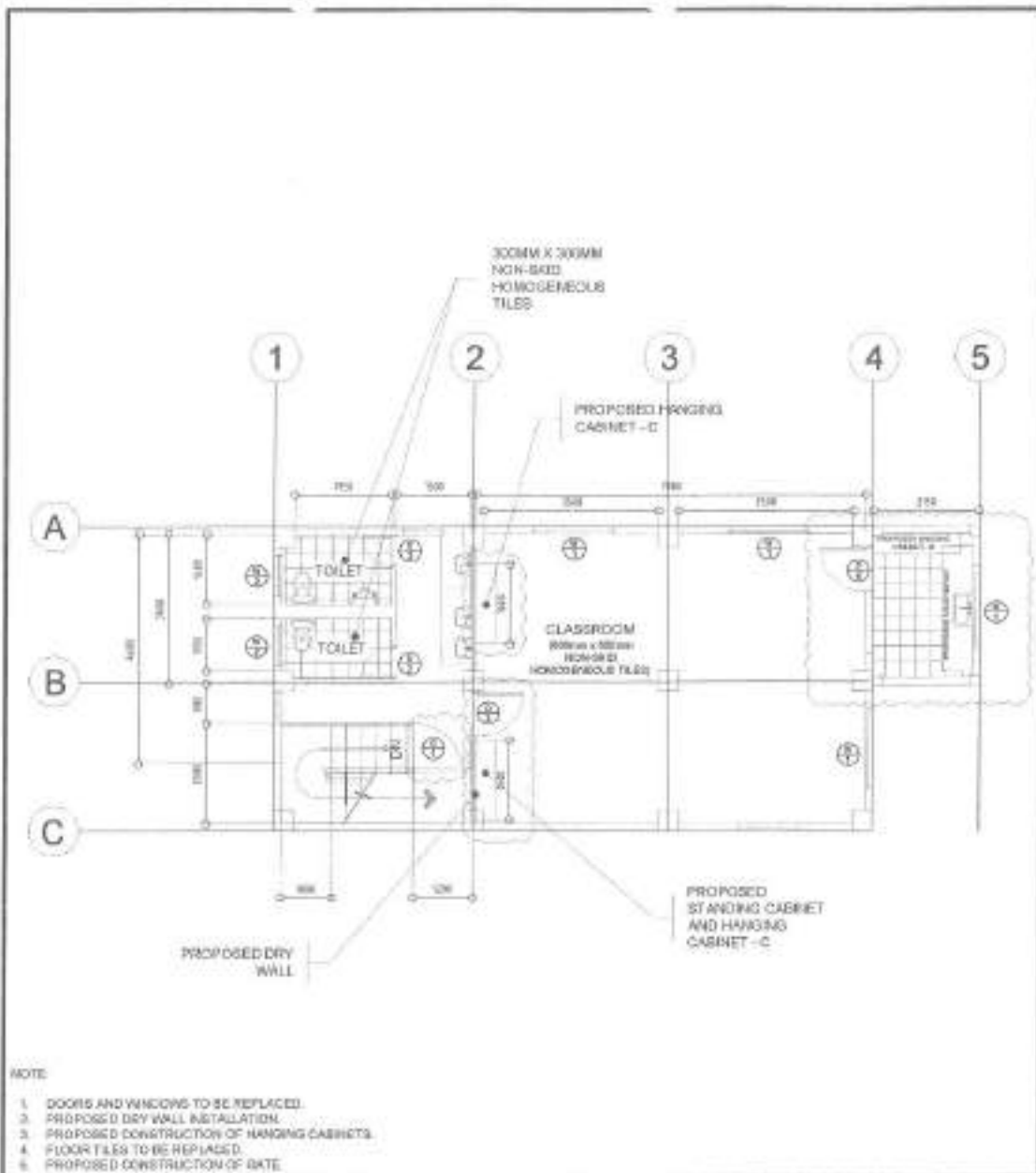
HON. MA. JOSEFINA G. BELMONTE
CITY ENGINEER

SHEET CODE

GROUND FLOOR PLAN
EXISTING
SECOND FLOOR PLAN
PROPOSED

SHEET NO.

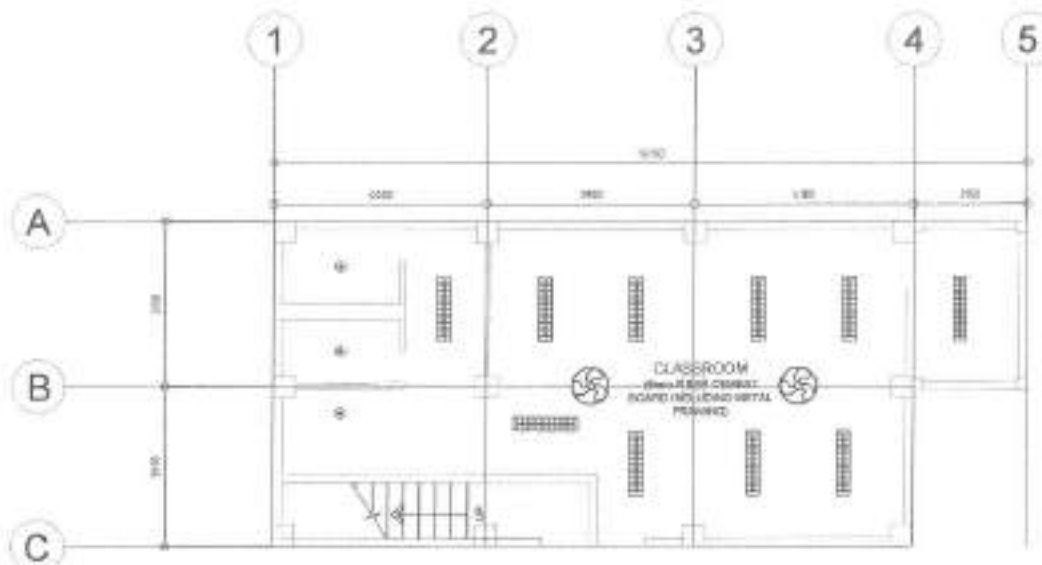
AR-03
03/21



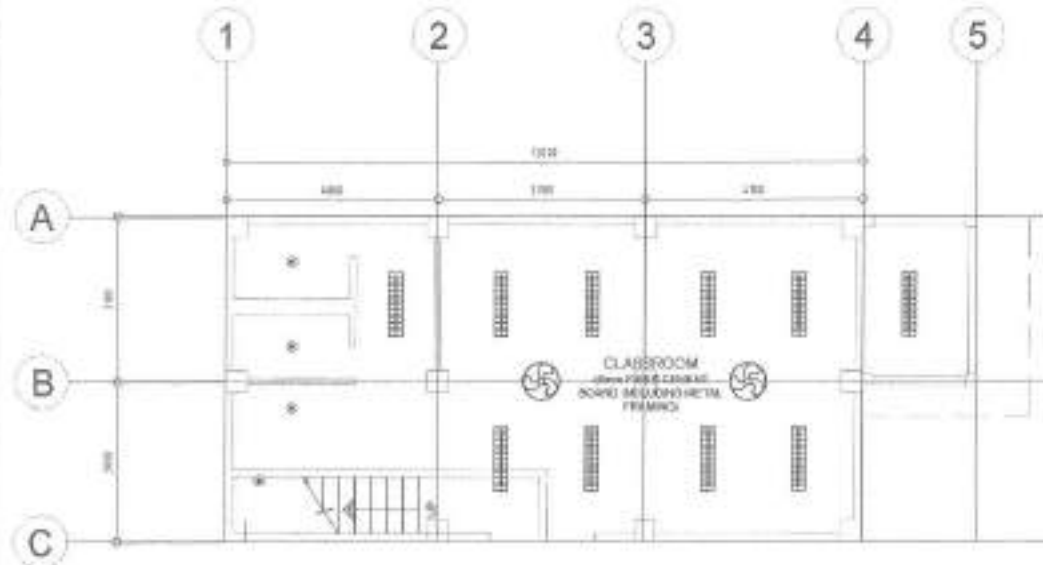
1 SECOND FLOOR PLAN SCALE 1:100M

2 ROOF DECK PLAN SCALE 1:100M

<p>Republic of the Philippines Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	<p>PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER</p>	<p>DRAWN BY: <i>[Signature]</i> DATE: 09.10.21 CHECKED BY: <i>[Signature]</i> PERSONNEL:</p>	<p>SUBMITTED BY: <i>[Signature]</i> ENGR. LEO S. DEL ROSARIO HEAD, TRAINING & RESEARCH DIVISION</p>	<p>RECOMMENDING APPROVAL: <i>[Signature]</i> ENGR. MARVIN R. VERZOSA, JR. DEPUTY CITY ENGINEER</p>	<p>APPROVED BY: <i>[Signature]</i> HON. MA. JOSEFINA G. BELMORTE CITY MAOR</p>	<p>EMBIT COUNTY: SECOND FLOOR PLAN ROOF DECK PLAN</p>	<p>SHEET NO. AR-04 04/21</p>
	<p>LOCATION: BAY SANDANGAN DISTRICT, QUEZON CITY</p>						



- NOTE:
1. REPLACEMENT OF 6mm THK FIBER CEMENT BOARD INCLUDING ROOF EAVES
 2. REPLACEMENT OF 12mm x 300mm FIBER CEMENT FASCIA BOARD



- NOTE:
1. REPLACEMENT OF 6mm THK FIBER CEMENT BOARD INCLUDING ROOF EAVES
 2. REPLACEMENT OF 12mm x 300mm FIBER CEMENT FASCIA BOARD

1 GROUND FLOOR REFLECTED CEILING PLAN

SCALE 1:100M

2 SECOND FLOOR REFLECTED CEILING PLAN

SCALE 1:100M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER

LOCATION:
BAGY. GAMBANGKAL DISTRICT 5, QUEZON CITY

DESIGNED BY:
DATE: 05/16/21
CHECKED BY: [Signature]
REVISION NO.:

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

COORDINATING APPROVAL:
[Signature]
ENGR. RAJAMANI H. VERZOSA, JR.
D.E. CITY ENGINEERING DEPARTMENT

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

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

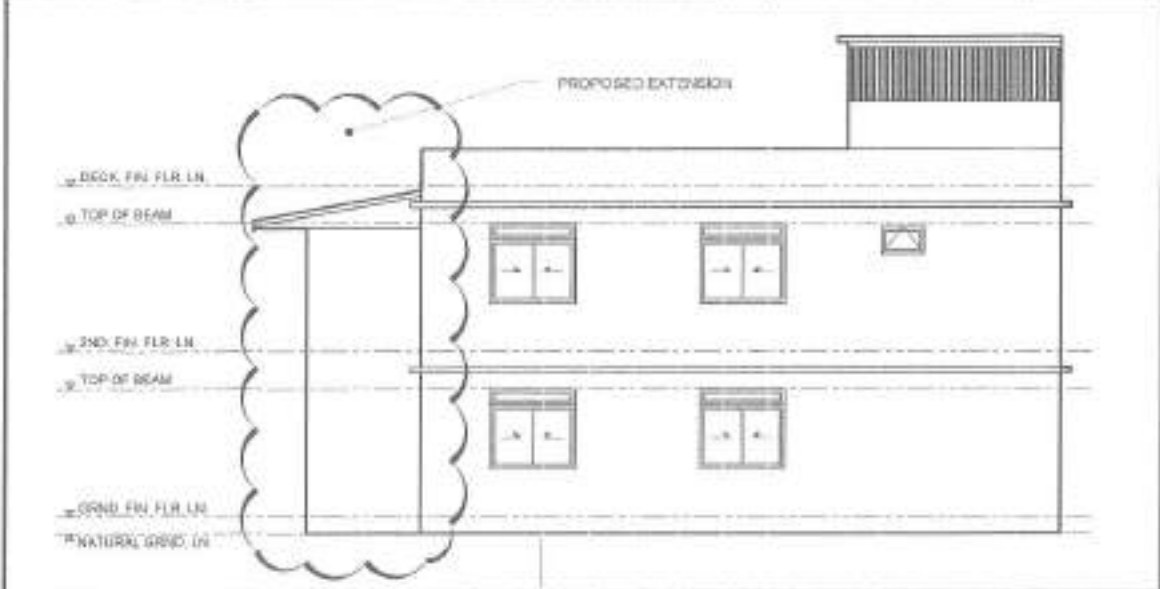
SHEET NO.
AR-05
05/21



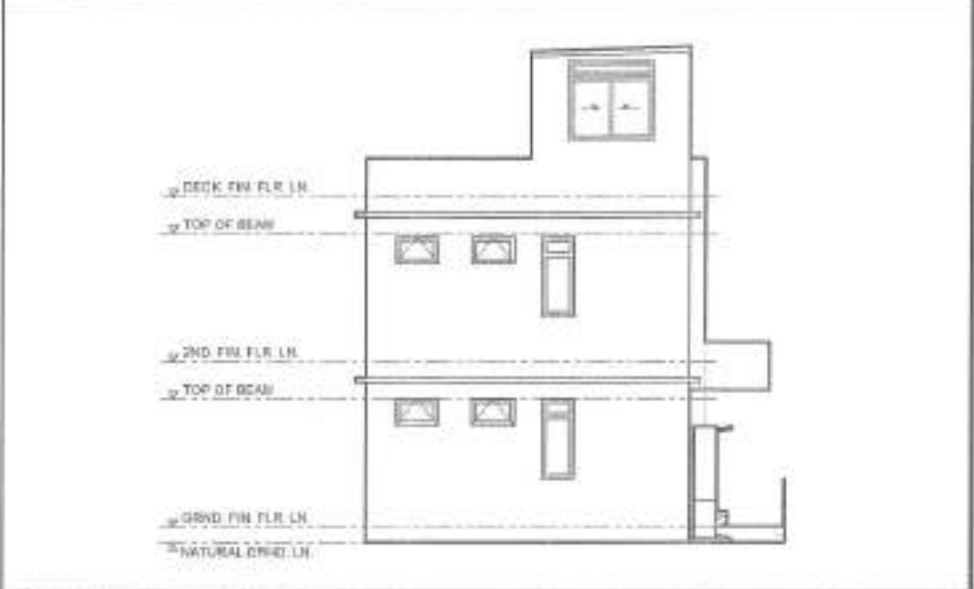
1 FRONT ELEVATION







2 RIGHT SIDE ELEVATION SCALE 1:100M

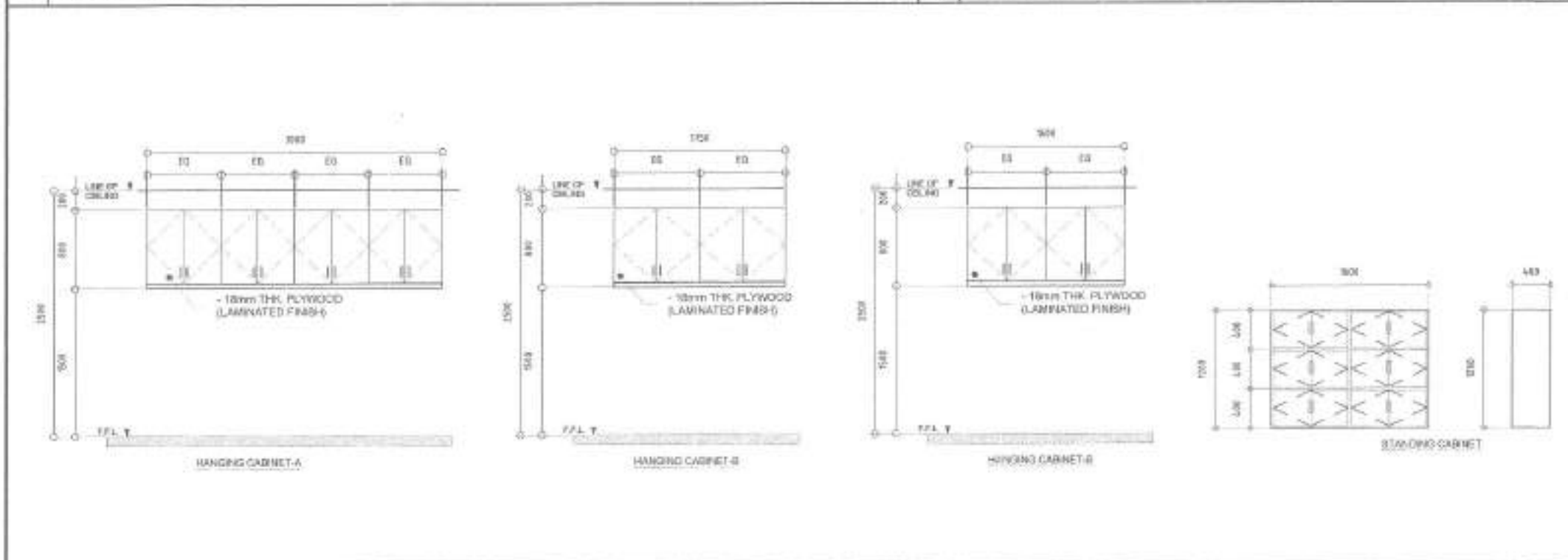
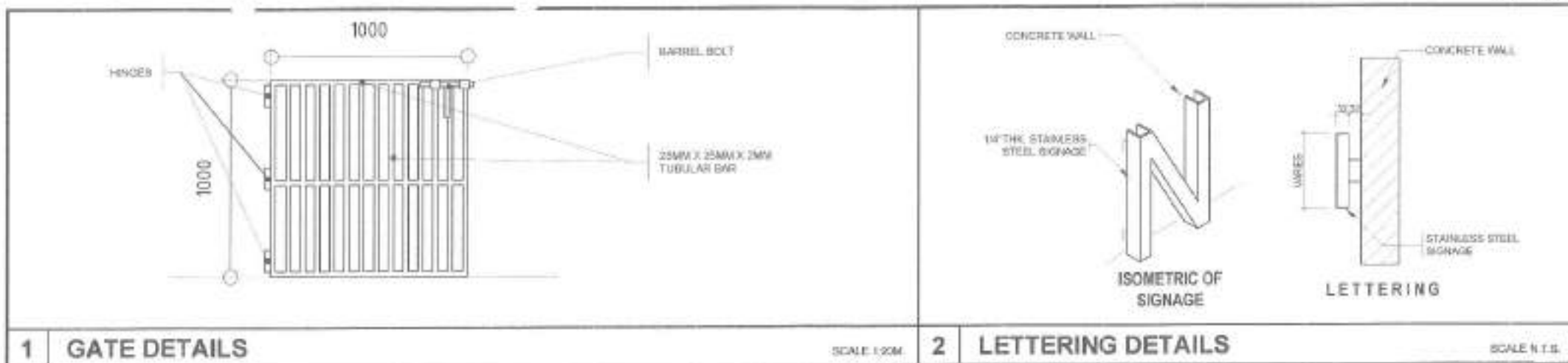


3 REAR ELEVATION



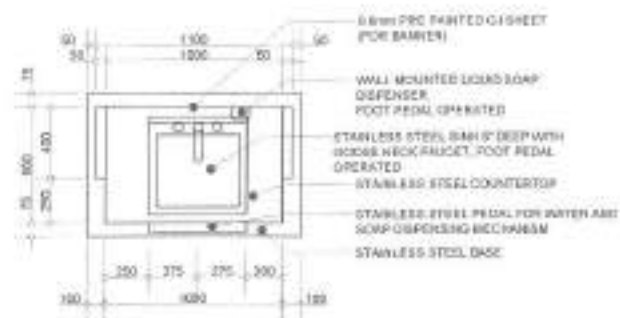
4 LEFT SIDE ELEVATION SCALE 1:100M

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	<p>PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION B DAY CARE CENTER</p>	<p>DESIGNED BY: DATE: 01/21/21 CHECKED BY:</p>	<p>SUBMITTED BY:  ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMS DIVISION</p>	<p>RECOMMENDING APPROVAL:  ENGR. IVAN M. R. VERZOSA, JR. C.E. CITY ENGINEERING DEPARTMENT</p>	<p>APPROVED BY: HON. NA. JOSEFINA G. BELMONTE CITY MAGER</p>	<p>WEST CORNER: FRONT ELEVATION REAR ELEVATION RIGHT SIDE ELEVATION LEFT SIDE ELEVATION</p>	<p>SHRIT NO. </p>
	<p>LOCATION: SITE: BUNSWANAN DISTRICT 8, QUEZON CITY</p>	<p>PROJECT NO.:</p>					



Republic of the Philippines
 Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

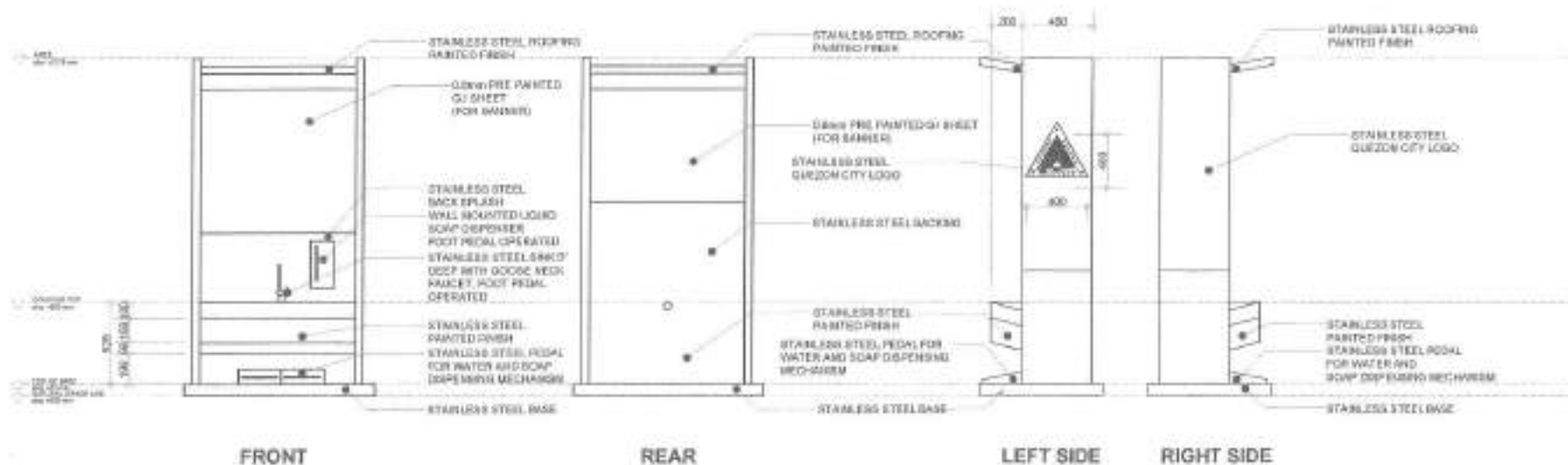
PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER	OWNER BY: MM	SUBMITTED BY: 	RECOMMENDING APPROVAL: 	APPROVED BY: HON. NA. JOSEFINA G. BELMONTTE CITY ENGINEER	SHEET CONTENT: GATE DETAILS LETTERING DETAILS HANGING CABINET AND STANDING CABINET DETAILS	SHEET NO: AR-08 08/21
LOCATION: WARD 6, SANISIDANG, DISTRICT 6, QUEZON CITY	DATE: 08/16/21	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. RAUL W. VERZOSA, JR. SIC, CITY ENGINEER (RETIRED)			



PLAN

1 SINGLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE: 1:30xrs



FRONT

REAR

LEFT SIDE

RIGHT SIDE

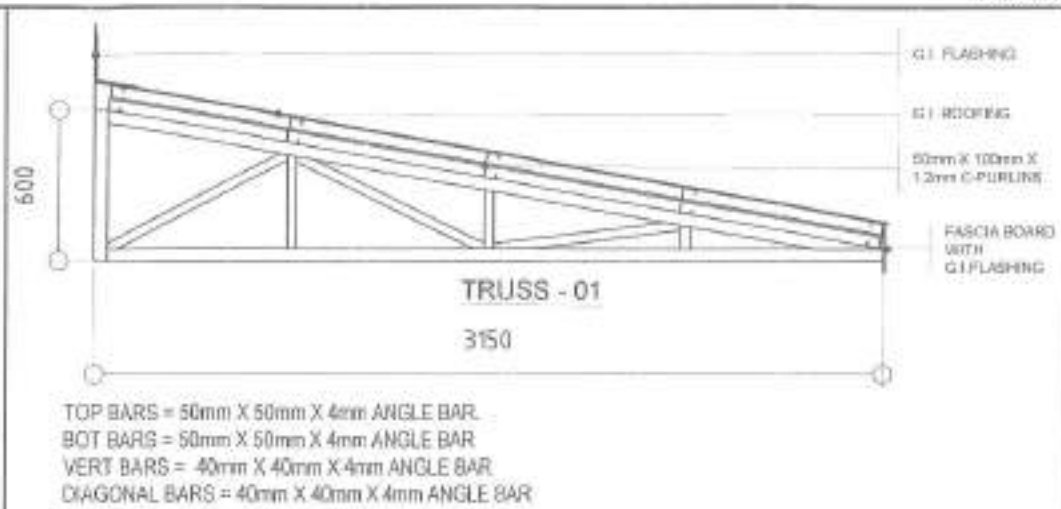
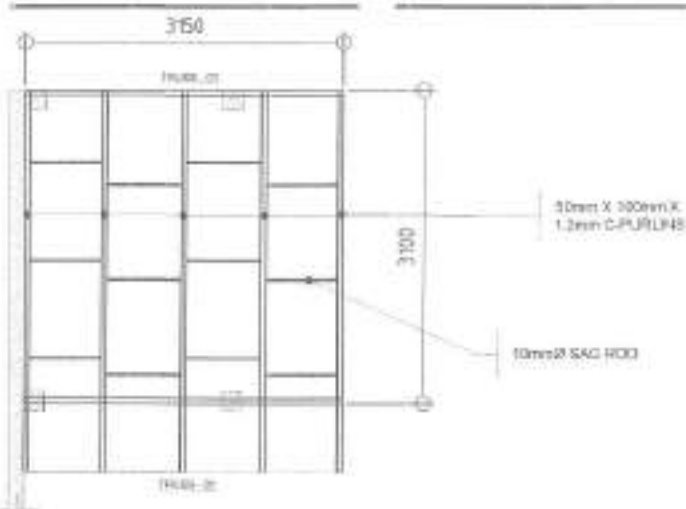
2 ELEVATIONS

SCALE: 1:30xrs



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CREDIT:	SHEET NO.:
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER	DATE: 08.10.21 CHECKED BY: JM	ENGR. SEP B. DEL ROSARIO HEAD, PLANNING AND DESIGN DIVISION	ENGR. ISIDORO R. VERZOSA, JR. OC, CITY ENGINEERING DEPARTMENT	HOW. MA. JOSEFINA G. DELMORTE CITY MAYER	SINGLE SINK PORTABLE HAND WASHING STALL PLAN ELEVATIONS	AR-09 09/21
LOCATION: BRYL SANGANDRAH DISTRICT, QUEZON CITY	REVISION NO.:					

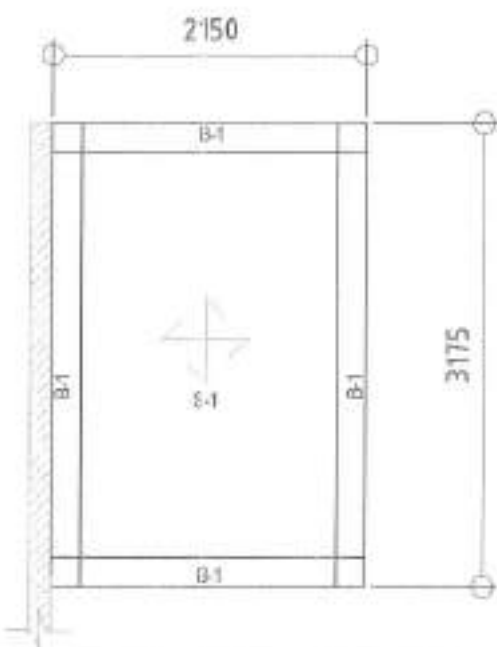


1 ROOF FRAMING PLAN

SCALE N.T.S.

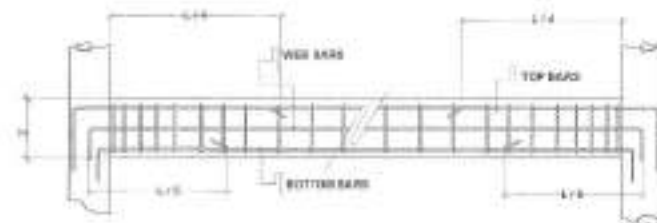
2 TRUSS DETAILS

SCALE N.T.S.



3 SECOND FLOOR FRAMING PLAN

SCALE N.T.S.



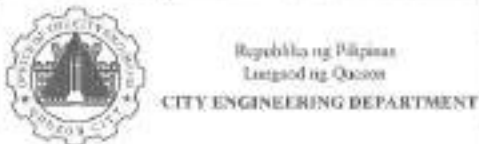
BEAM MARK	DIMENSION		BAR Ø	TOP BARS			BOTTOM BARS			WEB BAR	STIRRUPS
	E(mm)	H(mm)		LEFT SUPPORT	MID SPAN	RIGHT SUPPORT	LEFT SUPPORT	MID SPAN	RIGHT SUPPORT		
B-1	200	300	16	2	2	3	2	3	2	12mmØ DSB	10mmØ DSB 1 @ 50, 4 @ 100, REST @ 200

4 SCHEDULE OF BEAM

SLAB MARK	T	REINFORCEMENT		SHORT SPAN		LONG SPAN					
		MAIN BAR	TEMP.	TOP BAR	BOT. BAR	TOP BAR	BOT. BAR				
S-1	150	16	16	4	3	1	2	4	3	1	2

5 SCHEDULE OF SLAB

SCALE N.T.S.



PROJECT TITLE:
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER

LOCATION:
 BRGY. SAGANGAAN, DISTRICT 6, CIEZENCY

DESIGNED BY: *[Signature]*
 DATE: 09/16/21
 CHECKED BY: *[Signature]*
 REVIEWED BY: *[Signature]*

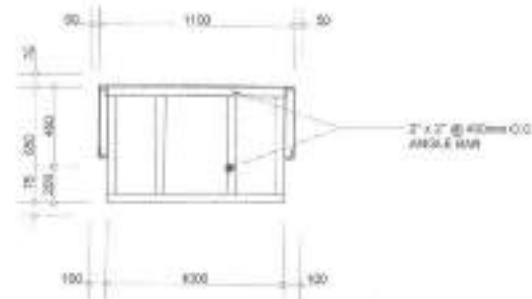
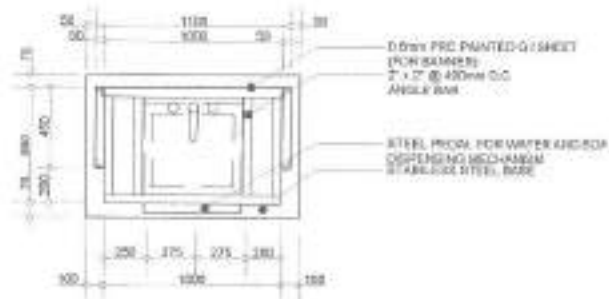
DESIGNER:
ENGR. WED R. DEL ROSARIO
 REG. PROFESSIONAL ENGINEER

RECOMMENDED APPROVAL:
ENGR. GILBERT R. VERZOSA, JR.
 OC, CITY ENGINEERING DEPARTMENT

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

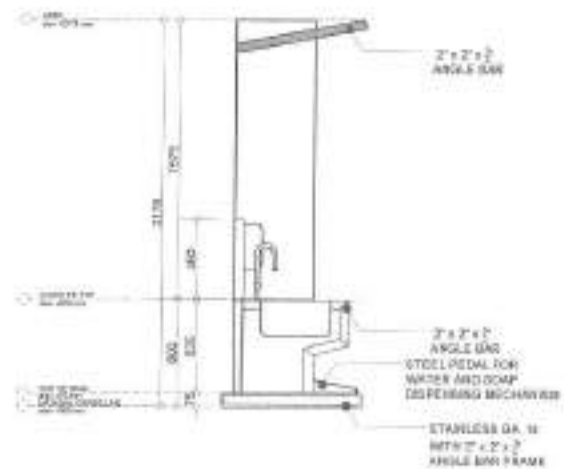
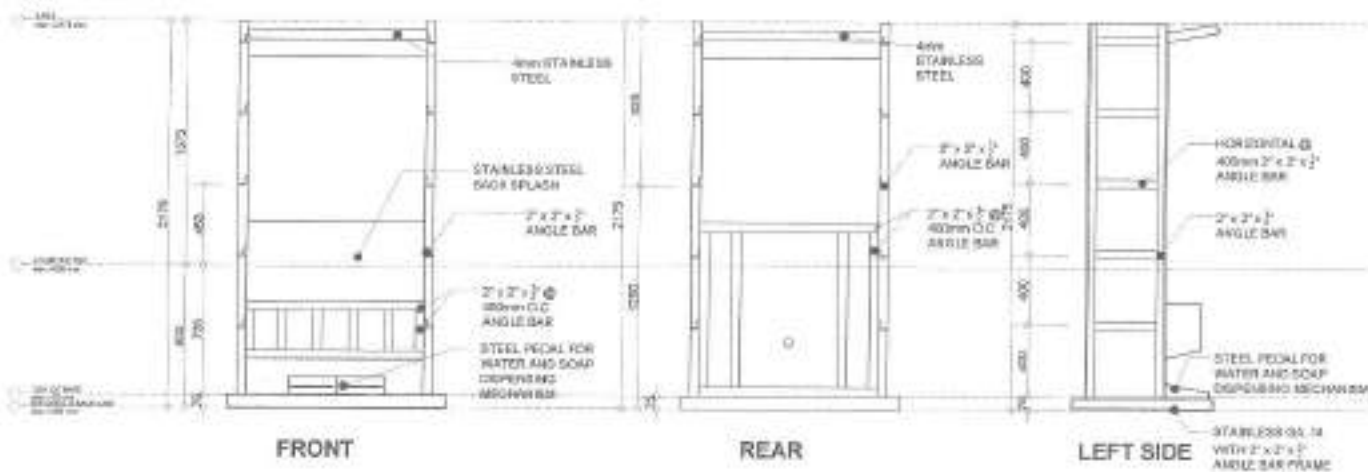
DISTRICT ENGINEER
 ROOF FRAMING PLAN
 SECOND FLOOR FRAMING PLAN
 TRUSS DETAILS
 SCHEDULE OF BEAM
 SCHEDULE OF SLAB

SHEET NO.
ST-02
11/21



1 SINGLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE: 1:30mm



2 ELEVATIONS

SCALE: 1:30mm

3 TYPICAL SECTION

SCALE: 1:30mm



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER	DRAWN BY: <i>FAM</i>	SUBMITTED BY: <i>[Signature]</i> ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION
DATE: 08/15/21	CHECKED BY: <i>[Signature]</i>	REVISION NO.:
LOCATION: BNEY SANSANGAM DISTRICTS, QUEZON CITY		

RECOMMENDATION APPROVAL: <i>[Signature]</i> ENGR. ISAGANI R. VERZOSA, JR. C.E. CITY ENGINEER & COORDINATOR	APPROVED BY: <i>[Signature]</i> HON. RA. JOSEFINA G. BELMONTÉ CITY MGR.
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SHEET CONTENT: SINKS AND PORTABLE HAND WASHING STALL PLAN RELEVANT TYPICAL SECTION	SHEET NO.: ST-03 12/21
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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 0%.

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 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 (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 referred to the same person.

I. FIXTURES AND OTHER LEGEND

FD	FLOOR DRAIN
RD	ROOF DRAIN
SHO	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

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

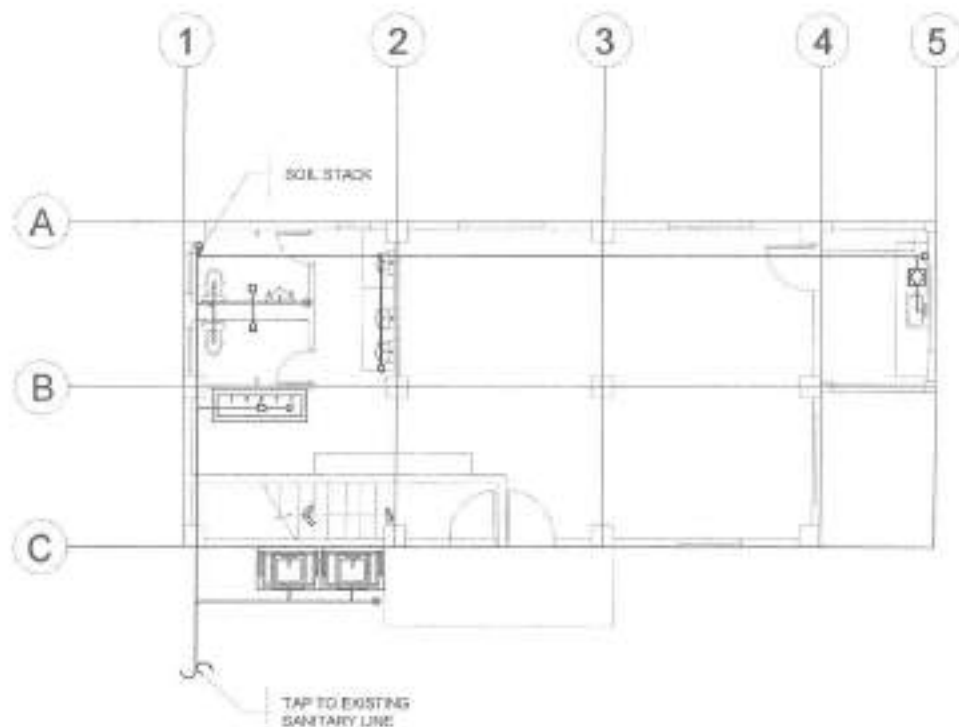
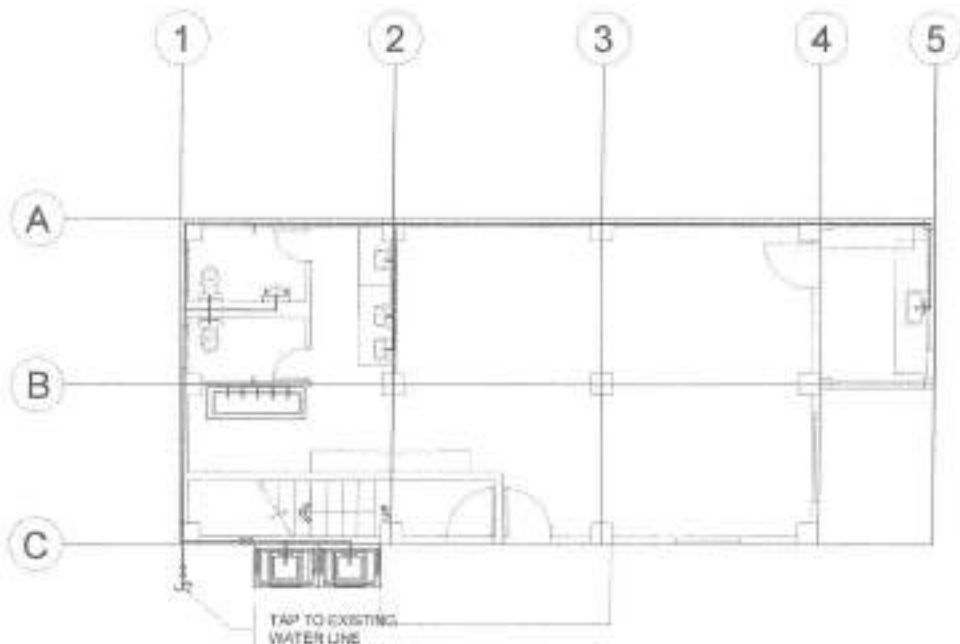
1 GENERAL NOTES

SCALE: NTS

2 LEGEND AND SYMBOLS

SCALE: NTS

<p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DRAWN BY: <i>RAM</i>	SUBMITTED BY:	RECOMMENDED APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.
	PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER LOCATION: BRGY. SAMUNIBARAN, DISTRICT II, QUEZON CITY	DATE: 08/20/21	ENGINEER: <i>[Signature]</i>	ENGR. LEO S. DEL ROSARIO HEAD - PLANNING & PROJECT MANAGEMENT	ENGR. SEANAN R. VERZOSA, JR. DDC - CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA D. BELMORTE CITY MGR.	GENERAL NOTES LEGEND AND SYMBOLS



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

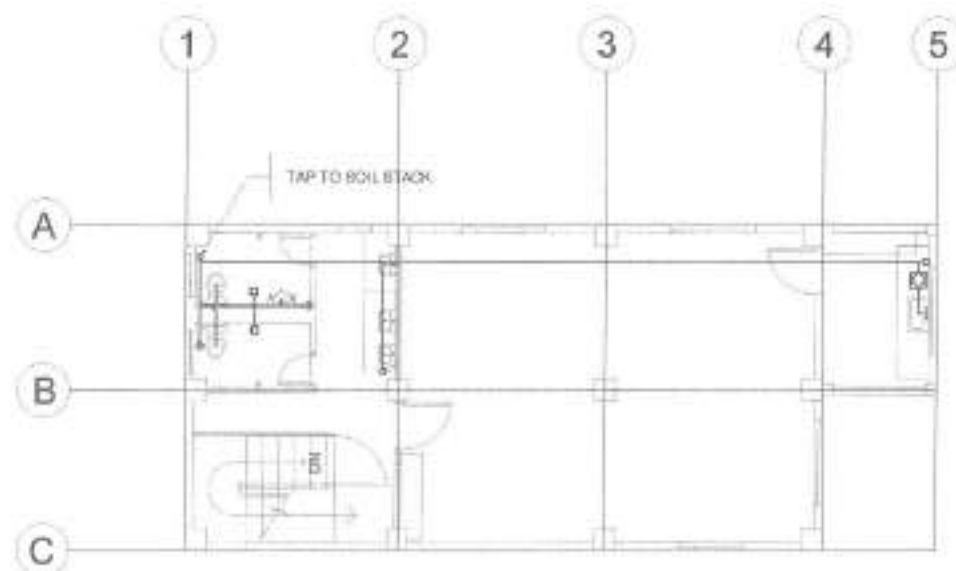
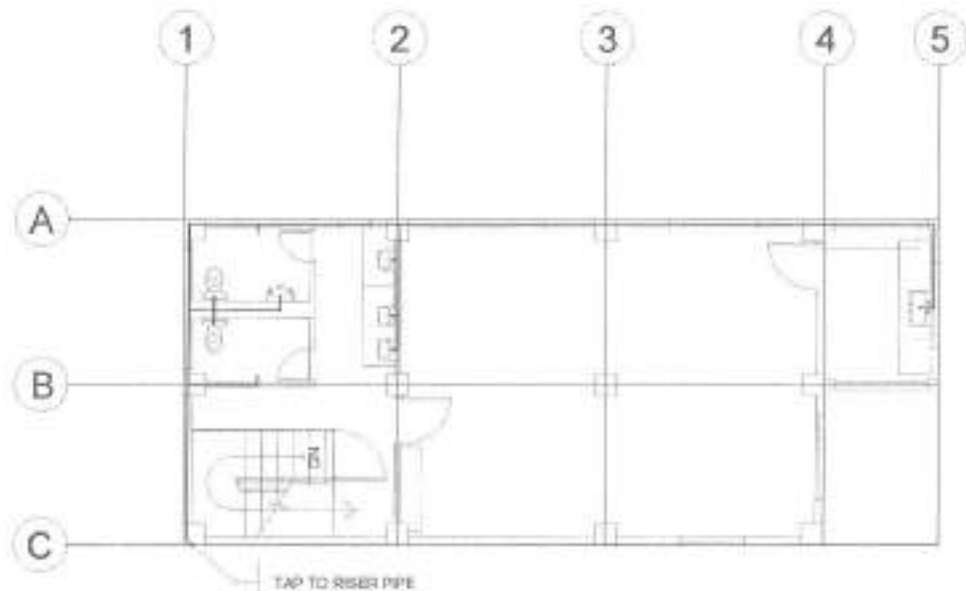
1 GROUND FLOOR WATER LINE LAYOUT

SCALE 1:100M

2 GROUND FLOOR SANITARY LAYOUT

SCALE 1:100M

<p>Republic of the Philippines Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	<p>PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER</p>	<p>DESIGNED BY: E.A.</p>	<p>CHECKED BY: E.A.</p>	<p>DATE: 01/14/21</p>	<p>REVISIONS:</p>	<p>APPROVED BY: </p> <p>ENGR. LEO S. DEL ROSARIO HEAD, PLUMBING & PROGRAMS DIVISION</p>	<p>RECOMMENDED APPROVAL: </p> <p>ENGR. BAGANI R. VERZOSA, JR. DE. CIVIL ENGINEERING DEPARTMENT</p>	<p>APPROVED BY: </p> <p>HON. NA. JOSEFINA G. BELMONTE CITY ENGINEER</p>	<p>PROJECT NO. 14-21</p>
	<p>LOCATION: BRGY. BANGSANGAM, DISTRICT 8, QUEZON CITY</p>	<p>GROUPED FLOOR WATER LINE LAYOUT GROUND FLOOR SANITARY LAYOUT</p>	<p>PL-02 14/21</p>						



NOTE

1. PLUMBING FIXTURES TO BE REPLACED.
2. HAND WASHING FAUCETS TO BE REPLACED.

1 SECOND FLOOR WATER LINE LAYOUT

SCALE 1:100M

2 SECOND FLOOR SANITARY LAYOUT

SCALE 1:100M



Republic of the Philippines
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF REDEMPTION I AND REDEMPTION II
DAY CARE CENTER

LOCATION:

BARTE, SANMARIAN DISTRICT 8, QUEZON CITY

DRAWN BY:

DATE: 08/20

CHECKED BY:

REVISION NO.:

DESIGNED BY:

DATE: 08/20

CHECKED BY:

REVISION NO.:

DRAWN BY:

DATE: 08/20

CHECKED BY:

REVISION NO.:

DRAWN BY:

DATE: 08/20

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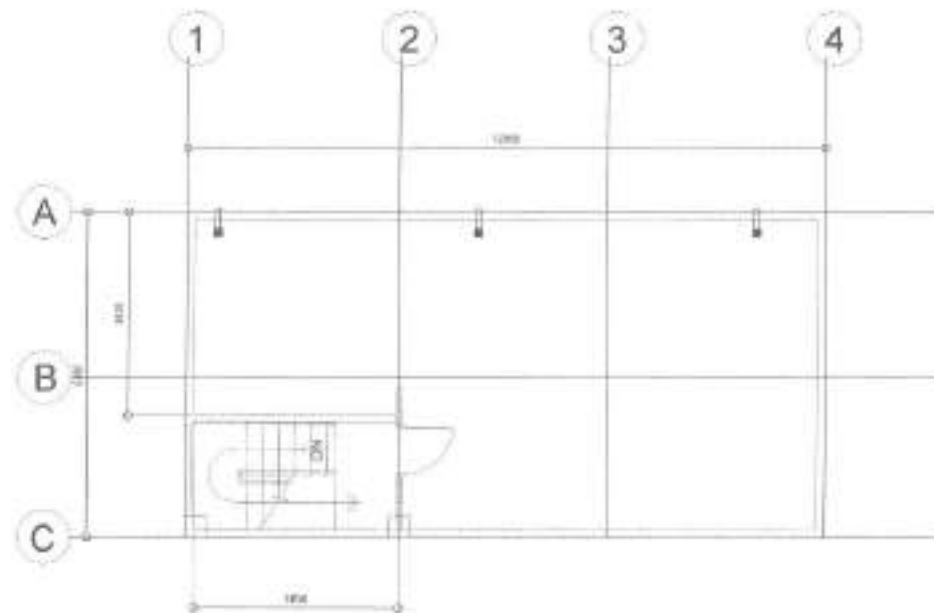
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REVISION NO.:

DRAWN BY:

DATE: 08/20

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NOTE:
1. ADDITIONAL STORM PIPE TO BE INSTALLED

1 ROOF DECK STORM LINE LAYOUT

SCALE: 1:100M



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER	DATE: 08/15/21 CHECKED BY: JK	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAM DIVISION	ENGR. SAMANER VERZOSA, JR. DC, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MANOR	ROOF DECK STORM LINE LAYOUT	PL-04 16/21
LOCATION: IBAY SANDANGAN DISTRICT 8, QUEZON CITY	REVISION NO.:					

- ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PSME 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 AIRCONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 50% 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 AIRCONDITIONING SYSTEM AND INSTALLATION.
- ALL POWER WIRING SHALL BE ELECTRICAL AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL.
- PROVIDE CONTROL WIRING FOR AIRCONDITIONING 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 / AD/CB
- 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.

LEGEND

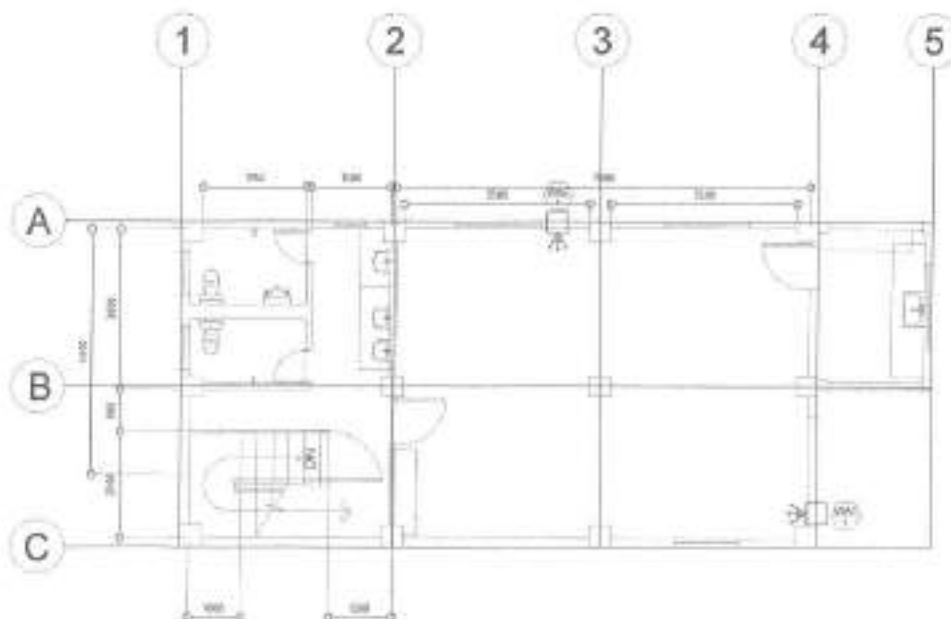
 - EQUIPMENT DESIGNATION

 - WINDOW TYPE AIR CONDITONER

WINDOW TYPE AIR-CONDITIONER
AIR-COOLED CONDENSING UNITS

DESIGNATION	LOCATION	QUANTITY	COOLING CAPACITY		AIR CIRCULATION	POWER INPUT WATTS	ELECTRICAL SUPPLY			REMARKS
			HP	KJHR			VOLTS	PHASE	HERTZ	
W/C 1	AS SHOWN ON PLANS	2 UNITS	2 HP	5300	60 CFM	1128	230	1Ø	60	REMARKS: NONE OR, SEE TO CLEAR ANTI-SAC FILTER, OR MECHANICAL DUCT TRIP

2 LEGEND



1 GENERAL NOTES

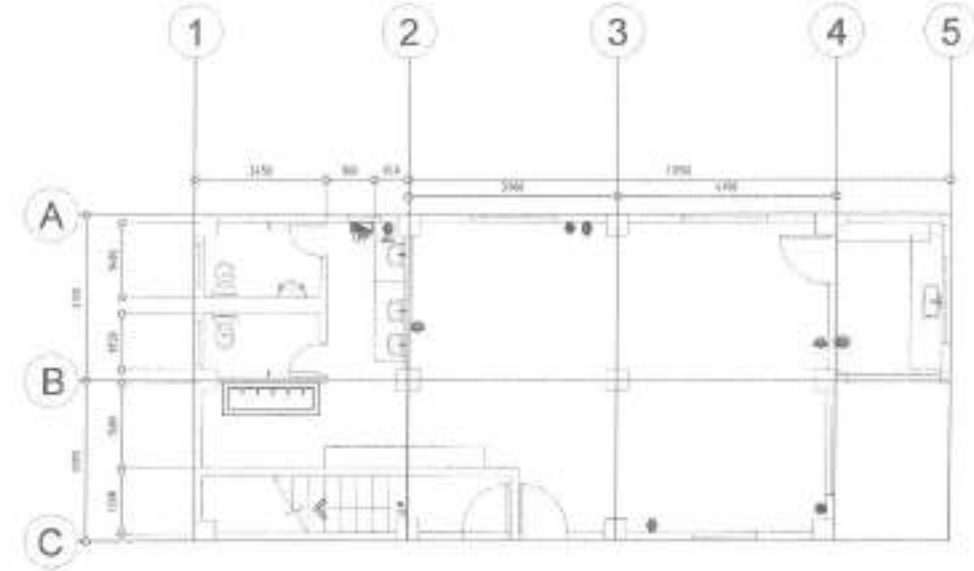
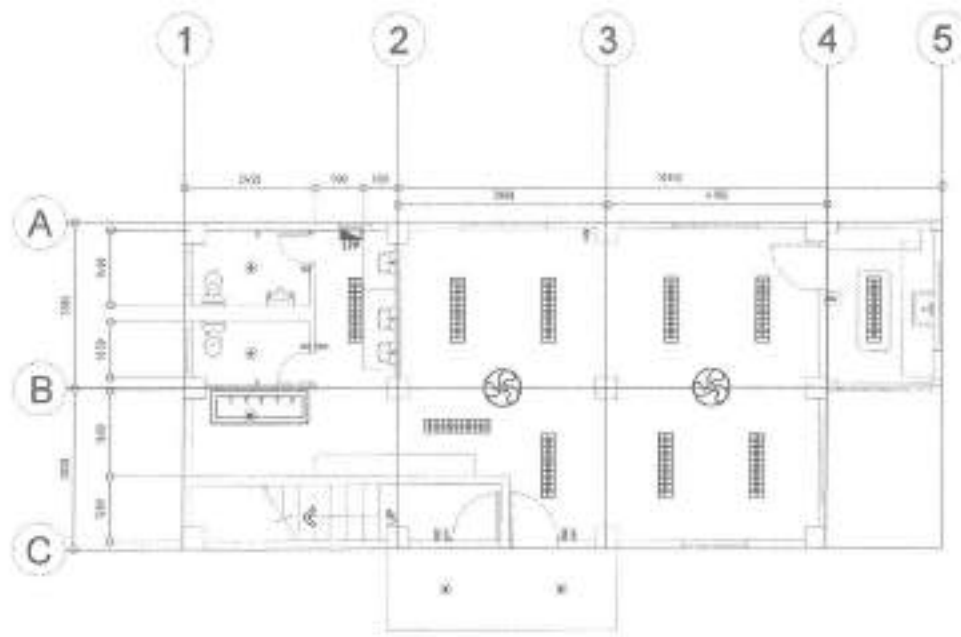
3 SECOND FLOOR AIR CONDITIONING SYSTEM

SCALE 1:1000



Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER	CHECKED BY: <i>[Signature]</i>	DESIGNED BY: <i>[Signature]</i>	RECOMMENDING APPROVAL: <i>[Signature]</i>	APPROVED BY: <i>[Signature]</i>	SHEET CONTENT: GENERAL NOTES SECOND FLOOR AIR CONDITIONING SYSTEM	SHEET NO.: ME-01 17/21
LOCATION: BPOZ, BANGSANGAN, DISTRICT 8, QUEZON CITY	DATE: 08/13/21	REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PRECONSTRUCTION	ENGR. SAGAN R. VERZOSA, JR. D.C. ENGINEERING DEPARTMENT	HON. NA. JOSEFINA G. BELMONTE CITY ENGINEER	



NOTE:
 1. REPLACEMENT OF LIGHTING FIXTURES AND SWITCHES
 2. ADDITIONAL CEILING FANS

NOTE:
 1. REPLACEMENT OF CONVENIENCE OUTLETS AND ACP OUTLET

1 GROUND FLOOR LIGHTING LAYOUT

SCALE: NTS

2 GROUND FLOOR POWER LAYOUT

SCALE: NTS



Republika ng Pilipinas
 Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER

LOCATION:
 BRGY. SANDANGGAL DISTRICT 8, QUEZON CITY

DESIGNED BY:
 DATE: 08/18/21
 CHECKED BY:
 REVIEWED BY:

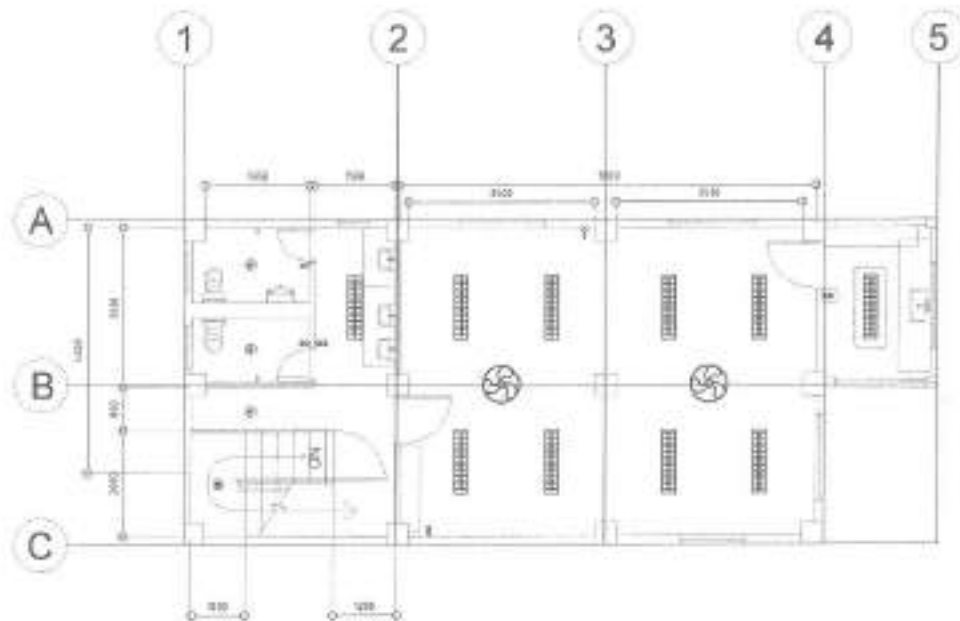
DESIGNED BY: *[Signature]*
 DATE: 08/18/21
 CHECKED BY: *[Signature]*
 REVIEWED BY: *[Signature]*
 ENGR. BO S. DEL ROSARIO
 REG. P. 10444 (P.E.) (ELECTRICAL)

RECOMMENDING APPROVAL:
 ENGR. RICHARD R. VERZOSA, JR.
 REG. CIVIL ENGINEER (ELECTRICAL)

AFFIRMED BY:
 HON. NA. JOSEFINA O. BELMONTE
 CITY ENGINEER

SHEET CONTENT:
 GROUND FLOOR LIGHTING LAYOUT
 GROUND FLOOR POWER LAYOUT

SHEET NO.:
EL-02
19/21

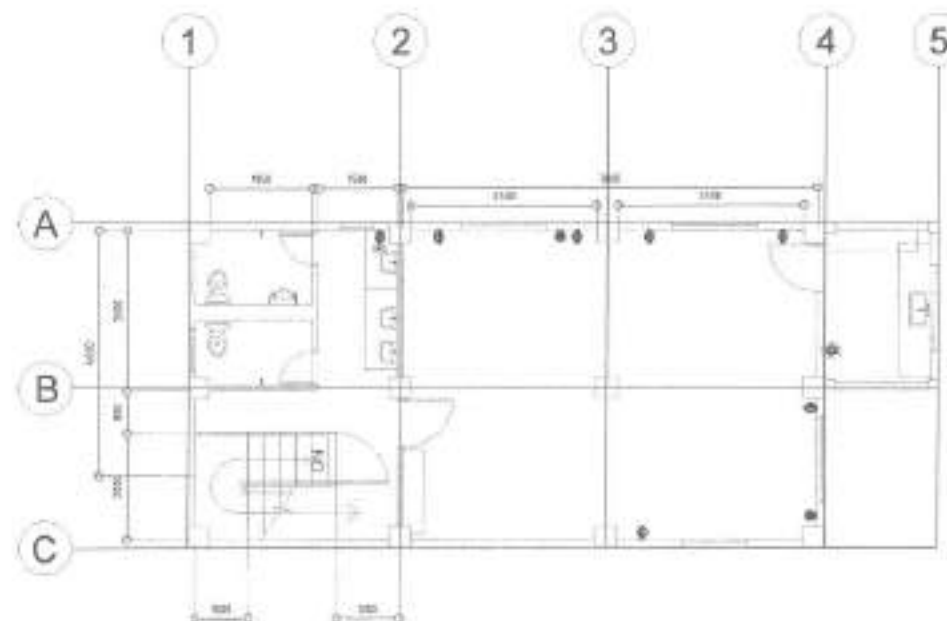


NOTE:

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

1 SECOND FLOOR LIGHTING LAYOUT

SCALE: NTS.



NOTE:

1. REPLACEMENT OF CONVENIENCE OUTLETS AND ACU OUTLET

2 SECOND FLOOR POWER LAYOUT

SCALE: NTS.



Republic of the Philippines
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND REHABILITATION
OF REDEMPTION I AND REDEMPTION II
DAY CARE CENTER

LOCATION:

STREET BANGSALANAN DISTRICT, QUEZON CITY

DRAWN BY:

FAA

DATE: 08/18/21

CHECKED BY: J.A.

REVISIONS:

SUBMITTED BY:

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

SUPERVISING APPROVAL:

ENGR. EDGAR R. VERZOSA, JR.
C.E. CITY ENGINEERING DEPARTMENT

APPROVED BY:

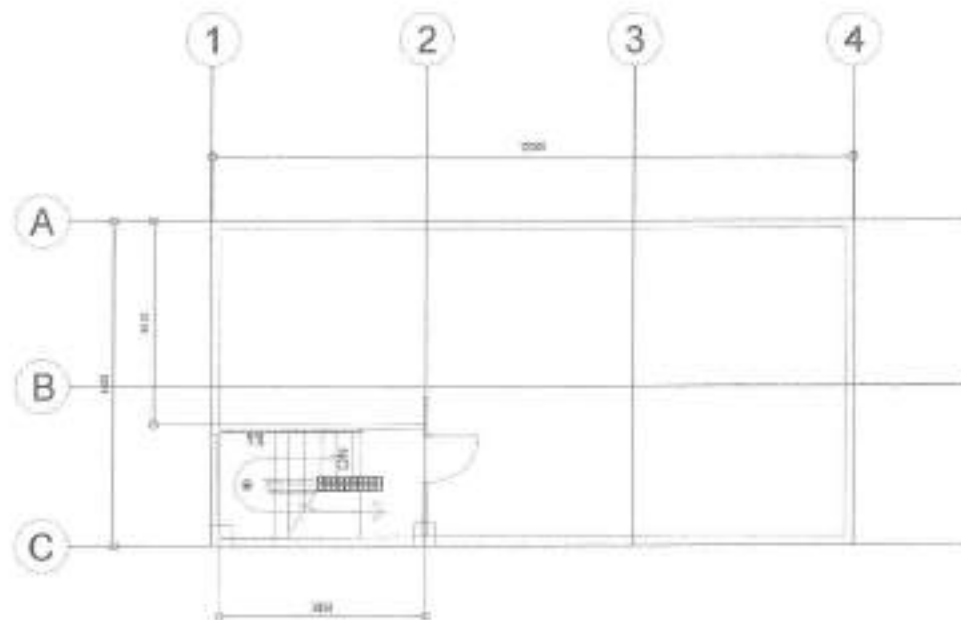
HON. MA. JOSEFINA S. BELMONTE
CITY MAYOR

SHEET ORDER:

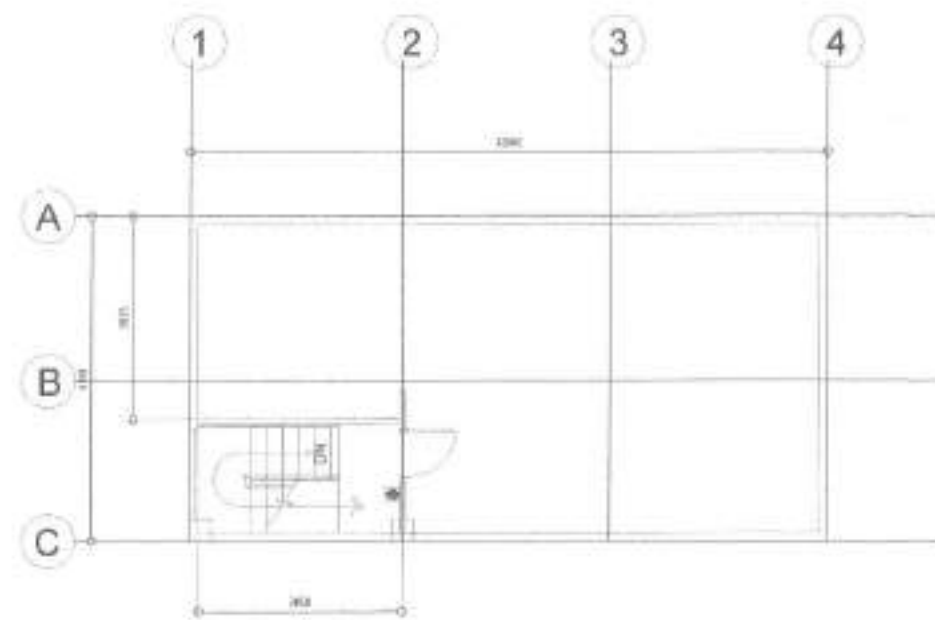
SECOND FLOOR
LIGHTING LAYOUT
SECOND FLOOR
POWER LAYOUT

SHEET NO.:

EL-03
20 21



NOTE
1. REPLACEMENT OF LIGHTING FIXTURES AND SWITCHES



NOTE
1. REPLACEMENT OF CONVENIENCE OUTLETS

1 ROOF DECK LIGHTING LAYOUT

SCALE: NTS

2 ROOF DECK POWER LAYOUT

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT</p>	PROJECT TITLE:	DESIGNED BY:	DATE:	APPROVED BY:	APPROVED BY:	SHEET CONTENT:	SHEET NO.:
	PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF REDEMPTION I AND REDEMPTION II DAY CARE CENTER	CHECKED BY: <i>[Signature]</i> DESIGN NO.:	SUBMITTED BY: <i>[Signature]</i> ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAM DEVELOPMENT	08.15.21	RECOMMENDED APPROVAL: <i>[Signature]</i> ENGR. MARCON R. VERZOSA, JR. CH. CITY PLANNING DEPARTMENT	APPROVED BY: HON. RA. JOSEFINA G. BELMORTE CITY ENGINEER	ROOF DECK LIGHTING LAYOUT ROOF DECK POWER LAYOUT

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 6 / AREA XI

LOCATION : BARANGAY BALON BATO AND SANGANDAAN, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00004

DURATION : Ninety (90) Calendar Days

BREAKDOWN OF COST

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
BALON BATO DAYCARE CENTER					
I	GENERAL REQUIREMENTS				
II	CONSTRUCTION OF HANDWASHING FACILITY				
III	REHABILITATION OF DAYCARE CENTER				
REDEMPTION I AND REDEMPTION II DAYCARE CENTER					
I	GENERAL REQUIREMENTS				
II	CONSTRUCTION OF HANDWASHING FACILITY				
III	DAYCARE CENTER I				
IV	DAYCARE CENTER II				

TOTAL COST P

LUMP SUM BID IN WORDS : _____

Contractor : _____

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

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

LOCATION : BARANGAY BALON BATO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00004

SCOPE OF WORK

I GENERAL REQUIREMENTS

1.) General Requirements include billboard, construction safety and health, hauling and disposal of construction materials and debris, and temporary enclosure.

II CONSTRUCTION OF HAND WASHING FACILITY

1.) Supply and installation of single sink portable handwashing stall.

2.) Sanitary/Plumbing Works include installation of roughing-ins, fixtures and accessories.

III REHABILITATION OF DAY CARE CENTER

1.) Site Works include demolition/removal works, cleaning and clearing for painting preparation.

2.) Civil/Structural Works include masonry and metal works.

3.) Architectural Works include wall finishes, floor finishes, ceiling finishes, installation of door and windows, fabricated materials, letterings, and painting works.

4.) Sanitary/Plumbing Works include installation of roughing-ins, fixtures and accessories.

5.) Electrical Works include installation of roughing-ins, fixtures and accessories.

6.) 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	1	t.l.		
	Construction Safety and Health	1	unit		
	Temporary Enclosure around the Construction Area (H=2.4m)	8	l.m.		
				DIRECT COST I	₱
II	CONSTRUCTION OF HAND WASHING FACILITY				
A	Hand Washing Facility				
	Single Sink Portable Hand Washing Facility	2	unit	₱	₱
				Direct Cost A	₱
B	Sanitary / Plumbing Works				
	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	2	piece	₱	₱
	50mm Ø x 50mm Ø PVC 1/4 Bend	4	piece		
	Waterline System				
	25mm Ø PPR Pipe	2	piece		
	25mm Ø, Tee Equal	2	piece		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	25mm Ø x 25mm Ø PPR 90° Elbow	4	piece		
	25mm Ø PPR Coupling	2	piece		
	25mm Ø x 20mm Ø PPR Reducer	2	piece		
	25mm Ø, Union Patente	2	piece		
	32mm Ø x 25mm Ø PPR Reducer	2	piece		
	Valves & Appurtenances				
	20mm Ø PPR Gate Valve	2	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	1	piece		
	Teflon Tape	2	roll		
	Waste Cloth	1	kg		
				Material Cost B	₱
				Labor Cost B	₱
				Direct Cost B	₱
				MATERIAL COST II	₱
				LABOR COST II	₱
				DIRECT COST II	₱
III	REHABILITATION OF DAY CARE CENTER				
A	Site Works				
	Removal / Demolition Works				
	Removal of Existing ACU	1	unit	₱	₱
	Removal of Existing Ceiling	3	sq.m.		
	Removal of Existing Door	2	set		
	Removal of Existing Kitchen Sink	1	unit		
	Removal of Existing Tiles	12	sq.m.		
	Removal of Existing Hanging Cabinet	4	sq.m.		
	Removal of Existing Window	3	sq.m.		
	Removal of Lavatory	1	set		
	Removal of Water Closet	1	set		
	Chipping of Wall (Electrical Works)	15	sq.m.		
	Clearing / Cleaning for Painting Preparation	99	sq.m.		
				Direct Cost A	₱
B	Civil Works / Structural Works				
	Masonry Works				
	Restoration of Wall Concrete (Electrical Works)	15	sq.m	₱	₱
	Metal Works				
	Windows Screen				
	Stainless Steel Mosquito Screen with Complete Framing	3	sq.m		
				Material Cost B	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost B	
				Direct Cost B	₱
C	Architectural Works				
	Floor Finishes				
	300mm x 300mm, Non-Skid Homogeneous Floor Tiles	3	sq.m.	₱	₱
	Floor Topping Preparation for Tile Works	3	sq.m.		
	Wall Finishes				
	300mm x 300mm, Homogeneous Wall Tiles	10	sq.m.		
	Ceiling Finishes				
	6mm Thick Fiber Cement Board including Metal Framing	3	sq.m.		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (2.10m x 0.90m) Panel Door	1	set	₱	₱
	D2 - (2.10m x 0.60m) PVC door with Louver	1	set		
	Door Jamb				
	D1 - (2.10m x 0.90m) Panel Door	1	set		
	Hardwares and Accessories				
	Door Hinges, Heavy Duty Stainless	6	set		
	Door Knob, Lever Type, Stainless	2	set		
	Installation of Windows				
	W1 - (1.00m x 2.50m) Aluminum Framed Powder	1	set		
	W2 - (0.60m x 0.40m) Aluminum Framed Powder	1	set		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Flat Latex Paint Finish				
	Interior Wall	74	sq.m.	₱	₱
	Ceiling (Toilet)	3	sq.m.		
	Slab Soffit	30	sq.m.		
	Fabricated Materials				
	Hanging Cabinet	3	sq.m		
	Shelves	2	sq.m		
	Undecounter Aluminum Cover	2	l.m		
	Letterings				
	200mm Stainless Steel Lettering "BALON BATO DAY CARE CENTER"	22	piece		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Material Cost C	₱
				Labor Cost C	
				Direct Cost C	₱
D	Sanitary / Plumbing Works				
	Sewer Line / Storm Drainage System				
	Roughing-ins				
	100mm Ø, PVC Pipe with Hub	2	piece	₱	₱
	75mm Ø, PVC Pipe with Hub	2	piece		
	50mm Ø, PVC Pipe with Hub	7	piece		
	100mm Ø x 100mm Ø, Wye	2	piece		
	100mm Ø x 75mm Ø, Wye	1	piece		
	100mm Ø x 50mm Ø, Wye	3	piece		
	75mm Ø x 75mm Ø, Wye	1	piece		
	75mm Ø x 50mm Ø, Tee	4	piece		
	50mm Ø, 1/4 Bend	8	piece		
	100mm Ø, 1/8 Bend	4	piece		
	75mm Ø, 1/8 Bend	4	piece		
	50mm Ø, 1/8 Bend	6	piece		
	Cleanout 100mm Ø	1	piece		
	100mm Ø, P-Trap	1	piece		
	50mm Ø, P-Trap	1	piece		
	40mm Ø, P-Trap	1	piece		
	32mm Ø, P-Trap	1	piece		
	Coupling 100mm Ø	3	piece		
	Coupling 75mm Ø	2	piece		
	100mm Ø x 75mm Ø, Reducer	2	piece		
	Waterline System				
	Roughing-ins				
	25mm Ø, PPR Pipe	2	piece		
	20mm Ø, PPR Pipe	2	piece		
	20mm Ø, Tee Equal	6	piece		
	20mm Ø, End Cap	4	piece		
	25mm Ø, 90 Deg Elbow	2	piece		
	20mm Ø, 90 Deg Elbow	10	piece		
	25mm Ø x 15mm Ø, Female Thread Tee	4	piece		
	25mm Ø, Coupling	2	piece		
	20mm Ø, Coupling	2	piece		
	25mm Ø x 20mm Ø, Reducer	2	piece		
	Fixtures				
	Bidet with Complete Accessories (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm Stainless Steel	1	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever Type, Heavy Duty, Stainless Steel (Water Efficient)	1	piece		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy Duty (Water Efficient)	1	set		
	Lavatory, Wall-hung Kiddy	1	set		
	Lavatory Faucet, Lever Type, Stainless, Heavy Duty (Water Efficient)	1	piece		
	Water Closet, Tank Type, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single-Way Stainless	2	piece		
	Angle Valve, Two-Way Stainless	1	piece		
	Flexible Hose, Stainless	2	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	2	roll		
	Waste Cloth	1	kg		
				Material Cost D	₱
				Labor Cost D	
				Direct Cost D	₱
E	Electrical Works				
	Roughing-ins				
	20mmØ IMC Pipe	1	piece	₱	₱
	20mmØ PVC Pipe	50	piece		
	25mmØ PVC Pipe	7	piece		
	Fittings and Accessories				
	20mmØ IMC Elbow	1	piece		
	20mmØ IMC Locknut and Bushing	2	pair		
	20mmØ PVC Adaptor	66	piece		
	20mmØ PVC Flexible Tube	20	l.m		
	20mmØ PVC Locknut	66	pair		
	25mmØ PVC Adaptor	4	piece		
	25mmØ PVC Coupling	5	piece		
	25mmØ PVC Locknut	4	pair		
	100mm x 100mm PVC Junction Box with Cover	13	piece		
	100mm x 100mm PVC Utility Box (Pullbox)	5	piece		
	20mmØ Weatherproof Entrance, Die Cast Type	1	piece		
	50mm x 100mm PVC Utility Box	12	piece		
	Secondary Rack with 2 Spool, Heavy Duty "BETA"	1	set		
	Wires and Cables				
	3.5mm² THHN Wire	2	roll		
	5.5mm² THHN Wire	30	l.m		
	8.0mm² THHN Wire	40	l.m		
	3.5mm² TW Wire	1	roll		
	5.5mm² TW Wire	20	l.m		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Lighting Fixtures (Energy Efficient)				
	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories, Surface Mounted Type	4	set		
	100mm Ø Round Recessed Pinlight (case)	1	piece		
	100mm Ø Round Surface Mounted Pinlight (case)	1	piece		
	100mm Ø Round Pinlight LED 9W	2	piece		
	Wiring Devices and Other Fixtures				
	Aircon Outlet, Multipurpose Outlet 250V/20A	1	piece		
	Outlet with Grounding, Two Gang	8	piece		
	Switch With Plate and Cover, Single Gang	1	piece		
	Switch With Plate and Cover, Three Gang	1	piece		
	Wall Fan (Heavy Duty)	2	piece		
	Panelboard				
	Lighting Power Panel (LPP) Main: 40AT, 2P, 230V, MCCB Branches: 4-20AT, 2P, 240V, 200AF 2-30AT, 2P, 240V, 200AF Enclosure: NEMA 1 with Ground Terminals	1	assy		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	50	l.m		
	Miscellaneous & Consumables				
	400cc Solvent Cement	3	can		
	Electrical Tape	6	roll		
	G.I. Tie Wire Ga. 16 (for Cable Pulling)	2	kg		
	Hacksaw Blade	3	piece		
	Masking Tape	1	roll		
	Pulling Lubricant	1	can		
	Rubber Tape	1	roll		
	Torch With Butane	3	set		
				Material Cost E	₱
				Labor Cost E	
				Direct Cost E	₱
F	Mechanical Works				
	Airconditioning System				
	Condensate Water Drainage System				
	Roughing-Ins				
	25mm Ø x 3m uPVC Pipe	1	piece	₱	₱
	25mm Ø uPVC Elbow	4	piece		
	Insulation				
	25mmØ x 12mm thick Rubber Foam Insulation	3	l.m.		
				Materials Cost	₱
				Labor Cost	
				Direct Cost	₱
	Window-type Air Conditioning Unit				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	WAC 1 - 2.0 hp, 1.5 TR, 450 cfm, 1730 W, 230/1/60	1	unit		
				Materials Cost	₱
				Labor Cost	
				Direct Cost	₱
	Pipe Hangers and Supports				
	Condensate Water Drainage System Support	1	l.m.		
	Window Type Aircon Steel Bracket	1	unit		
	Miscellaneous & Consumables				
	400cc Pipe Solvent Cement	1	can		
	50mm x 10m Duct Tape	1	roll		
	Waste Cloth	1	kg		
				Materials Cost	₱
				Labor Cost	
				Material Cost F	₱
				Labor Cost F	
				Direct Cost F	₱
				MATERIAL COST III	₱
				LABOR COST III	
				DIRECT COST III	₱

SUMMARY

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	CONSTRUCTION OF HAND WASHING FACILITY	
III	REHABILITATION OF DAY CARE CENTER	
NOTE: • Strictly enforce Health Protocols relative to the latest applicable DPWH Memorandum	TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM) Profit VAT	₱
	TOTAL ESTIMATED COST	₱

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED REHABILITATION OF REDEMPTION I AND REDEMPTION II
DAY CARE CENTER

LOCATION : BARANGAY SANGANDAAN, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00004

SCOPE OF WORK :

1. General Requirements include temporary enclosure and utilities, billboard, scaffolding, construction safety and health, and clearing, hauling and disposal of construction materials and debris.
2. **CONSTRUCTION OF HAND WASHING FACILITY**
3. Installation of Single sink portable hand washing facility.
4. Site Works including chipping of floor.
5. Civil Works including restoration of concrete flooring.
6. **DAY CARE CENTER 1**
7. Site Works include removal works, cleaning and clearing for painting preparation, layout and staking, site clearing and preparation,
8. Civil/ Structural Works include concrete works, masonry works, metal works and moisture protection.
9. Architectural Works include floor finishes, wall finishes, ceiling works, painting works and installation of doors, fabricated materials and letterings.
10. Sanitary/ Plumbing Works including installation of roughing-ins, fixtures and accessories.
11. Electrical Works include installation roughing-ins, wirings, devices, fixtures and accessories.
12. **DAY CARE CENTER 2**
13. Site Works include removal works, cleaning and clearing for painting preparation and termite protection
14. Civil/ Structural Works include moisture protection, metal works and roofing works.
15. Architectural Works include floor finishes, wall finishes, ceiling works, painting works and installation of doors and windows, fabricated materials and letterings.
16. Sanitary/ Plumbing Works including installation of roughing-ins, equipment, fixtures and accessories.
17. Electrical Works include installation roughing-ins, wirings, devices, fixtures, panelboard and accessories.
18. Mechanical Works include installation of air-conditioning units
19. 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	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	7	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	440	sq.m.		
	Temporary Enclosure Around the Construction Area (h=2.4)	15	l.m.		
				Direct Cost I	₱
II	CONSTRUCTION OF HAND WASHING FACILITY				
A	Handwashing Facility				
	Single Sink Portable Hand Washing Stall	2	unit	₱	₱
				Direct Cost A	₱
B	Site Works				
	Chipping of Floor (Plumbing / Sanitary Works)	3	sq.m.	₱	₱

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Direct Cost B	₱
C	Civil Works				
	Restoration of Concrete Floor (Plumbing / Sanitary	3	sq.m.	₱	₱
				Materials Cost C	₱
				Labor Cost C	
				Direct Cost C	₱
D	Sanitary/ Plumbing Works				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe	3	piece	₱	₱
	50mm Ø, P-Trap	2	piece		
	50mm Ø, 1/8 Bend	13	piece		
	100mm Ø x 50mm Ø, Wye	3	piece		
	50mm Ø, Cleanout with Adapter	1	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	2	piece		
	20mm Ø, Coupling	2	piece		
	20mm Ø, Elbow	2	piece		
	20mm Ø, Tee Equal	2	piece		
	Valves and Appurtenances				
	20mm Ø Gate Valve, PPR	1	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	1	piece		
	Teflon Tape	1	rolls		
	Waste Cloth	1	kgs		
				Materials Cost D	₱
				Labor Cost D	
				Direct Cost D	₱
				Materials Cost II	₱
				Labor Cost II	
				Direct Cost II	₱
III	DAY CARE CENTER 1				
A	Site Works				
	Removal Works				
	Removal of Ceiling	81	sq.m.	₱	₱
	Removal of Countertop	1	sq.m.		
	Removal of Doors	3	set		
	Removal of Lavatory	2	set		
	Removal of Masonry Wall	7	sq.m.		
	Removal of Tiles	98	sq.m.		
	Removal of Urinal	1	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Removal of Water Closet	2	set		
	Removal of Window	12	sq.m.		
	Chipping of Concrete (Plumbing and Electrical Works)	5	sq.m.		
	Clearing and Cleaning for Painting Preparation	287	sq.m.		
	Layout and Staking	7	sq.m.		
	Site Clearing and Preparation	7	sq.m.		
	Excavation for Structures	3	cu.m.		
				Subtotal	₱
	Gravel Bedding	2	cu.m.	₱	₱
	Soil Poisoning/ Termite Proofing	12	sq.m.		
	Termite Treatment	4	gal		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Backfill and Compaction	5	cu.m.	₱	₱
				Subtotal	₱
				Materials Cost A	₱
				Labor Cost A	
				Direct Cost A	₱
B	Civil/ Structural Works				
	Concrete Works				
	Onsite Mix Concrete, 21MPa, 3/4" Gravel @ 28 days				
	Column Footing	1	cu.m.	₱	₱
	Wall Footing	1	cu.m.		
	Column	2	cu.m.		
	Slab-On-Fill	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire				
	10mm Ø Wall Footing	10	kg		
	10mm Ø Column	54	kg		
	10mm Ø Slab-On-Fill	38	kg		
	12mm Ø Wall Footing	23	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire				
	16mm Ø Column Footing	128	kg		
	16mm Ø Column	120	kg		
	Formworks				
	Column Footing	6	sq.m.		
	Wall Footing	5	sq.m.		
	Column	16	sq.m.		
	Slab-On-Fill	2	sq.m.		
	Scaffolding and Shoring				
	Column	12	l.m.		
	Masonry Works				
	100mm CHB Wall Laying, including Mortar, Reinforcement and Two-Face Plastering	11	sq.m.		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	150mm CHB Wall Laying, including Mortar, Reinforcement and Two-Face Plastering	24	sq.m.		
	Plastering of Door and Window Openings	3	sq.m.		
	Restoration of Concrete (Plumbing and Electrical	4	sq.m.		
	Moisture Protection				
	Cementitious Capillary Type	13	sq.m.		
	Metal Works				
	25mm x 25mm x 2mm Tubular Bar	95	kg		
	Mosquito Screen Including Metal Framing	3	sq.m.		
	Miscellaneous				
	Acetylene Tank (Refill)	1	tank		
	Assorted Metal Drill Bit	5	piece		
	Cut Off Blade	2	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	1	tank		
	Welding Rod	1	box		
				Materials Cost B	₱
				Labor Cost B	
				Direct Cost B	₱
C	Architectural Works				
	Floor Finishes				
	Floor Topping For Preparation of Tiles Works	84	sq.m.	₱	₱
	400mm x 400mm Non-Skid Homogeneous Floor Tiles	8	sq.m.		
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	76	sq.m.		
	Wall Finishes				
	400mm x 400mm Homogeneous Wall Tiles	24	sq.m.		
	4mm Thk Aluminum Composite Panel Including Metal Framing	20	sq.m.		
	Ceiling Works				
	6mm Thk Fiber Cement Board Including Metal Framing	91	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (1m x 2.1m) Glass Door on Aluminum	1	set	₱ 17,850.00	₱
	D2 - (0.60m x 2.10m) PVC Door with Louver	2	set	3,443.00	
	D4 - (0.80m x 2.1m) Flush Door	1	set	5,040.00	
	Door Jambs				
	D4 - Flush Door Wooden Jamb	1	set	2,000.00	
	Hardwares and Accessories				
	Door Hinges, Heavy Duty, Stainless	9	set	200.00	
	Door Knob, Lever Type, Stainless	3	set	1,000.00	
	Installation of Windows				
	W1 - (1.6m x 1.5m) Aluminum Powder Coated Sliding Window	4	set	20,400.00	

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	W2 - (0.8m x 0.5m) Aluminum Powder Coated AwningWindow	2	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Epoxy Enamel Paint Finish (Steel Surfaces)	41	sq.m.	₱	₱
	Elastomeric Paint Finish (Exterior Walls)	176	sq.m.		
	Flat Latex Paint Finish				
	Interior Walls	183	sq.m.		
	Ceiling	91	sq.m.		
	Fabricated Materials				
	Countertop	6	l.m.		
	Hanging Cabinet	4	sq.m.		
	Letterings				
	200mm Stainless Steel Lettering	24	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost C	₱
				Labor Cost C	
				Direct Cost C	₱
D	Sanitary/ Plumbing Works				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe	6	piece	₱	₱
	75 mm Ø, PVC	8	piece		
	100mm Ø, PVC Pipe	4	piece		
	50mm Ø, P-Trap	8	piece		
	75mm Ø, P-Trap	2	piece		
	50mm Ø, 1/8 Bend	38	piece		
	75mm Ø, 1/8 Bend	10	piece		
	100mm Ø, 1/8 Bend	3	piece		
	75mm Ø, 1/4 Bend	2	piece		
	75mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 50mm Ø, Tee	2	piece		
	100mm Ø x 75mm Ø, Tee	1	piece		
	50mm Ø x 50mm Ø, Wye	2	piece		
	100mm Ø x 50mm Ø, Wye	4	piece		
	100mm Ø x 100mm Ø, Wye	1	piece		
	50mm Ø, Cleanout with Adapter	3	piece		
	100mm Ø, Cleanout with Adapter	2	piece		
	50 mm Ø No Hub Coupling	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	8	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	20mm Ø, Elbow	21	piece		
	20mm Ø, Coupling	8	piece		
	20mm Ø, Tee Equal	13	piece		
	20mm Ø, Female Threaded, Tee	9	piece		
	Valves and Appurtenances				
	20mm Ø Gate Valve, PPR	1	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	2	set		
	Floor Drain, 100mm x 100mm	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, Countertop	3	set		
	Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient)	3	set		
	Soap Holder, Ceramic	2	piece		
	Tissue Holder, Ceramic	2	set		
	Urinal, Kiddie, Flush Valve-Type (Water Efficient)	1	set		
	Water Closet, Tank Type w/ Accessories, Kiddie	2	set		
	Accessories				
	Angle Valve, Single Way, Stainless	5	piece		
	Angle Valve, Two Way, Stainless	2	piece		
	Flexible Hose, Stainless Steel	7	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	5	can		
	All-Around Sealant	5	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	3	roll		
	Waste Cloth	2	kg		
				Materials Cost D	₱
				Labor Cost D	
				Direct Cost D	₱
E	Electrical Works				
	Roughing-ins				
	20mmØ PVC Pipe	30	piece	₱	₱
	25mmØ PVC Pipe	15	piece		
	20mmØ PVC Flexible Hose	60	l.m.		
	Fittings and Accessories				
	20mmØ PVC Adaptor	50	piece		
	20mmØ PVC Locknut & Bushing	50	piece		
	25mmØ PVC Adaptor	30	piece		
	25mmØ PVC Locknut & Bushing	30	piece		
	50mm x 100mm PVC Utility Box	15	piece		
	100mm x 100mm PVC Junction Box with Cover	25	piece		
	Wires and Cables				

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	3.5mm ² THHN Wire	180	l.m.		
	5.5mm ² THHN Wire	160	l.m.		
	Lighting Fixtures (Energy Efficient)				
	150mm Ø Round Recessed Pinlight (Case)	5	piece		
	18W LED Bulb	5	piece		
	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories	10	piece		
	Wiring Devices and Other Fixtures				
	Aircon Outlet, Multipurpose Outlet 250V/20A	2	set		
	Ground Fault Circuit Interrupter Outlet 250V/20A	1	set		
	Orbit Fan with Selector Switch	2	set		
	Outlet with Grounding, Two Gang	5	set		
	Switch with Plate and Cover, Single Gang	6	set		
	Switch with Plate and Cover, Two Gang	2	set		
	Switch with Plate and Cover, Three Gang	1	set		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Electrical Tape	5	roll		
	Hacksaw Blade	2	piece		
	Torch with Butane	1	set		
				Materials Cost E	₱
				Labor Cost E	
				Direct Cost E	₱
F	Utility and Ancillary Works				
	Area Drain (0.5mx0.5mx0.8m)	3	set	₱	₱
				Materials Cost F	₱
				Labor Cost F	
				Direct Cost F	₱
				Materials Cost III	₱
				Labor Cost III	
				Direct Cost III	₱
IV	DAY CARE CENTER 2				
A	Site Works				
	Removal Works				
	Removal of Ceiling	74	sq.m.	₱	₱
	Removal of Countertop	1	sq.m.		
	Removal of Doors	6	set		
	Removal of Lavatory	2	set		
	Removal of Masonry Wall	7	sq.m.		
	Removal of Tiles	98	sq.m.		
	Removal of Urinal	1	set		
	Removal of Water Closet	2	set		
	Removal of Window	14	sq.m.		
	Chipping of Concrete	7	sq.m.		
	Clearing and Cleaning for Painting Preparation	287	sq.m.		
				Subtotal	₱

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Termite Treatment	4	gal	₱	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost A	₱
				Labor Cost A	
				Direct Cost A	₱
B	Civil/ Structural Works				
	Concrete Works				
	Onsite Mix Concrete, 21MPa, 3/4" Gravel @ 28 days				
	Beam	1	cu.m.	₱	₱
	Column	2	cu.m.		
	Suspended Slab	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	10mm Ø Beam	32	kg		
	10mm Ø Column	61	kg		
	10mm Ø Suspended Slab	87	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	16mm Ø Beam	161	kg		
	16mm Ø Column	120	kg		
	Formworks				
	Beam	7	sq.m.		
	Column	16	sq.m.		
	Suspended Slab	2	sq.m.		
	Scaffolding and Shoring				
	Beam	11	l.m.		
	Column	12	l.m.		
	Suspended Slab	8	sq.m.		
	Masonry Works				
	100mm CHB Wall Laying, including Mortar, Reinforcement and Two-Face Plastering	11	sq.m.		
	150mm CHB Wall Laying, including Mortar, Reinforcement and Two-Face Plastering	24	sq.m.		
	Plastering of Door and Window Openings	3	sq.m.		
	Restoration of Concrete	4	sq.m.		
	Moisture Protection				
	Cementitious Capillary Type	13	sq.m.		
	Membrane Type	77	sq.m.		
	Metal Works				
	Roofing Works				
	100mm x 50mm x 1.2mm C-Purlins	38	kg		
	10mmØ Sagrod	7	kg		
	50mm x 50mm x 4mm Angle Bar	46	kg		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	40mm x 40mm x 4mm Angle Bar	24	kg		
	Window Grilles				
	25mm x 25mm x 2mm Tubular Bar	119	kg		
	Gate				
	25mm x 25mm x 2mm Tubular Bar	11	kg		
	Cylindrical Hinges, Heavy Duty	3	piece		
	38mmØ Barrel Bolt	1	set		
	Mosquito Screen Including Metal Framing	3	sq.m.		
	Miscellaneous				
	Acetylene Tank (Refill)	1	tank		
	Assorted Metal Drill Bit	5	piece		
	Cut Off Blade	2	piece		
	Grinding Disc for Metal	7	piece		
	Oxygen Tank (Refill)	2	tank		
	Stainless Cleaner	2	can		
	Welding Rod	2	box		
	Roofing Works				
	Pre-painted G.I. Rib Type Roofing	13	sq.m.		
	Pre-painted G.I. End Flashing	15	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	15	l.m.		
	6mm Thk One-sided Aluminum Foil Thermal Insulation	13	sq.m.		
	Tekscrew	48	piece		
	Blind Rivets	55	piece		
	Silicone Sealant	1	tube		
				Materials Cost B	₱
				Labor Cost B	
				Direct Cost B	₱
C	Architectural Works				
	Floor Finishes				
	Floor Topping For Preparation of Tiles Works	84	sq.m.	₱	₱
	400mm x 400mm Non-Skid Homogeneous Floor Tiles	8	sq.m.		
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	76	sq.m.		
	Wall Finishes				
	400mm x 400mm Homogenous Wall Tiles	24	sq.m.		
	4mm Thk Aluminum Composite Panel Including Metal Framing	16	sq.m.		
	6mm Thk Double Wall Fiber Cement Board, Including Metal Framing	8	sq.m.		
	Ceiling Works				
	6mm Thk Fiber Cement Board Including Metal Framing	84	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (1m x 2.1m) Glass Door on Aluminum	1	set	₱	₱
	D2 - (0.60m x 2.10m) PVC Door with Louver	2	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	D3 - (0.8m x 2.10m) Panel Door	2	set		
	D4 - (0.80m x 2.1m) Flush Door	1	set		
	Door Jambs				
	D3 - Panel Door Wooden Jamb	2	set		
	D4 - Flush Door Wooden Jamb	1	set		
	Hardwares and Accessories				
	Door Hinges, Heavy Duty, Stainless	15	piece		
	Door Knob, Lever Type, Stainless	5	piece		
	Installation of Windows				
	W1 - (1.6m x 1.5m) Aluminum Powder Coated Sliding Window	5	set		
	W2 - (0.8m x 0.5m) Aluminum Powder Coated Awning Window	2	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Epoxy Enamel Paint Finish (Steel Surfaces)	21	sq.m.	₱	₱
	Elastomeric Paint Finish (Exterior Walls)	176	sq.m.		
	Flat Latex Paint Finish				
	Interior Walls	183	sq.m.		
	Ceiling	84	sq.m.		
	Fabricated Materials				
	Countertop	6	l.m.		
	Hanging Cabinet	3	sq.m.		
	Standing Cabinet	2	sq.m.		
	Letterings				
	200mm Stainless Steel Lettering	25	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost C	₱
				Labor Cost C	
				Direct Cost C	₱
D	Sanitary/ Plumbing Works				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe	4	piece	₱	₱
	75 mm Ø, PVC Pipe	7	piece		
	100mm Ø, PVC Pipe	3	piece		
	50mm Ø, P-Trap	7	piece		
	75mm Ø, P-Trap	2	piece		
	50mm Ø, 1/8 Bend	29	piece		
	75mm Ø, 1/8 Bend	10	piece		
	100mm Ø, 1/8 Bend	4	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	75mm Ø, 1/4 Bend	3	piece		
	75mm Ø x 75mm Ø, Tee	2	piece		
	100mm Ø x 75mm Ø, Tee	2	piece		
	100mm Ø x 50mm Ø, Wye	8	piece		
	100mm Ø x 100mm Ø, Wye	2	piece		
	100mm Ø, Cleanout with Adapter	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	8	piece		
	20mm Ø, Elbow	20	piece		
	20mm Ø, Coupling	8	piece		
	20mm Ø, Tee Equal	5	piece		
	20mm Ø, Female Threaded, Tee	9	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	2	set		
	Floor Drain, 100mm x 100mm	2	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever-Type, Stainless, Heavy-Duty (Water Efficient)	2	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy-Duty (Water Efficient)	1	set		
	Lavatory, Countertop	3	set		
	Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient)	3	set		
	Soap Holder, Ceramic	2	piece		
	Tissue Holder, Ceramic	2	set		
	Urinal, Kiddie, Flush Valve-Type (Water Efficient)	1	set		
	Water Closet, Kiddie, Tank Type w/ Accessories (Water Efficient)	2	set		
	Accessories				
	Angle Valve, Single Way, Stainless	5	piece		
	Angle Valve, Two Way, Stainless	2	piece		
	Flexible Hose, Stainless Steel	7	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	4	can		
	All-Around Sealant	4	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	3	roll		
	Waste Cloth	2	kg		
				Materials Cost D	₱
				Labor Cost D	
				Direct Cost D	₱
E	Electrical Works				
	Roughing-ins				
	20mmØ PVC Pipe	20	piece	₱	₱
	25mmØ PVC Pipe	15	piece		
	20mmØ PVC Flexible Hose	60	l.m.		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Fittings and Accessories				
	20mmØ PVC Adaptor	50	piece		
	20mmØ PVC Locknut & Bushing	50	piece		
	25mmØ PVC Adaptor	30	piece		
	25mmØ PVC Locknut & Bushing	30	piece		
	50mm x 100mm PVC Utility Box	15	piece		
	100mm x 100mm PVC Junction Box with Cover	25	piece		
	Wires and Cables				
	3.5mm ² THHN Wire	180	l.m.		
	5.5mm ² THHN Wire	160	l.m.		
	Lighting Fixtures (Energy Efficient)				
	150mm Ø Round Recessed Pinlight (Case)	4	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	18W LED Bulb	4	piece		
	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories	10	piece		
	Wiring Devices and Other Fixtures				
	Aircon Outlet, Multipurpose outlet 250V/20A	2	set		
	Ground Fault Circuit Interrupter Outlet 250V/20A	1	set		
	Orbit Fan with Selector Switch	2	set		
	Outlet with Grounding, Two Gang	7	set		
	Switch with Plate and Cover, Single Gang	4	set		
	Switch with Plate and Cover, Two Gang	2	set		
	Switch with Plate and Cover, Three Gang	1	set		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Electrical Tape	5	roll		
	Hacksaw Blade	2	piece		
	Torch with Butane	1	set		
				Materials Cost E	₱
				Labor Cost E	
				Direct Cost E	₱
F	Mechanical Works				
	2.0 HP Window-Type Air Conditioning Unit	2	unit	₱	₱
				Materials Cost F	₱
				Labor Cost F	
				Direct Cost F	₱
				Materials Cost IV	₱
				Labor Cost IV	
				Direct Cost IV	₱

SUMMARY

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	CONSTRUCTION OF HAND WASHING FACILITY	
III	DAY CARE CENTER 1	
IV	DAY CARE CENTER 2	
NOTE:	<ul style="list-style-type: none"> Strictly enforce health protocols relative to the latest applicable DPWH memorandum 	<p align="right">TOTAL DIRECT COST ₱</p> <p align="right">Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM)</p> <p align="right">Profit</p> <p align="right">VAT</p>

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL 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 ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: _____

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (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	PERCENTAGE		VALUE OF OUTSTANDING WORKS (IN PHP)
									ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	
									TOTAL AMOUNT (Php) OF OUTSTANDING WORKS		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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

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