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 XII

Project number: 22-00009

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.

TABLE OF CONTENTS

Glossa	ry of Terms, Abbreviations, and Acronyms	5
Section	I. Invitation to Bid	8
Section	II. Instructions to Bidders	9
1.	Scope of Bid	10
2.	Funding Information	10
3.	Bidding Requirements	10
4.	Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices	10
5.	Eligible Bidders	11
6.	Origin of Associated Goods	11
7.	Subcontracts	11
8.	Pre-Bid Conference	12
9.	Clarification and Amendment of Bidding Documents	12
10.	Documents Comprising the Bid: Eligibility and Technical Components	12
11.	Documents Comprising the Bid: Financial Component	13
12.	Alternative Bids	13
13.	Bid Prices	13
14.	Bid and Payment Currencies	13
15.	Bid Security	14
16.	Sealing and Marking of Bids	14
17.	Deadline for Submission of Bids	14
18.	Opening and Preliminary Examination of Bids	14
19.	Detailed Evaluation and Comparison of Bids	14
20.	Post Qualification	15
21.	Signing of the Contract	15
Section	III. Bid Data Sheet	16
Section	IV. General Conditions of Contract	22
1.	Scope of Contract	23
2.	Sectional Completion of Works	23
3.	Possession of Site	23
4.	The Contractor's Obligations	23
5.	Performance Security	23
6.	Site Investigation Reports	24

7.	Warranty	.24
8.	Liability of the Contractor	.24
9.	Termination for Other Causes	.24
10.	Dayworks	.24
11.	Program of Work	.25
12.	Instructions, Inspections and Audits	.25
13.	Advance Payment	.25
14.	Progress Payments	.25
15.	Operating and Maintenance Manuals	.25
Section	V. Special Conditions of Contract	27
Section	VI. Specifications	29
Section	VII. Drawings	31
Section	VIII. Bill of Quantities	32
Section	IX. Checklist of Technical and Financial Documents	34

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 INFRASTRACTURE &



CONSULTANCY

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

January 17, 2022

Invitation to Bid

No	Projec t No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
Ви	ildings	– Small B				1	18. 1
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 Appropriatio
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 Appropriatio
з	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 Appropriatio
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 Appropriatio
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 Appropriatio
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 Appropriatio
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 Appropriatio
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 Appropriatio

Bu	ildings	- Medium A					
11	22- 00011	Proposed Construction of Four (4) Storey with Deck Quirino 2-C Barangay Hall		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
Flo	ood Cor	ntrol – Small B					
13	22- 00013	Proposed Construction of Retaining Wall at Housing No. 23	Greater Lagro	3,611,788.95	120	Engineering Dept.	Local Disaste Risk Reduction and Management Fund - Continuing Appropriation
Fic	ood Cor	ntrol – Medium A					
14	22- 00014	Proposed Construction of Reinforced Concrete Canal at Balingasa Creek (Old Samson Road)	Balingasa	39,226,171.70	240	Engineering Dept.	Local Disaste 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 Disaste Risk Reduction and Management Fund Continuing Appropriation
Pa	rks – Si	mall B					1 oppropriation
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
Ro	ads – S	mall B		······			
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)

- The QUEZON CITY LOCAL GOVERNMENT, through funding source of various years intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract for the above stated Projects. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- The QUEZON CITY LOCAL GOVERNMENT now invites bids for the above Procurement Project. Completion of the Works is required as stated above. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- Bidding will be conducted through open competitive bidding procedures using nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. – 5:00 p.m.
- 5. A complete set of Bidding Documents may be acquired by interested bidders on 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)
- Authorization to purchase bidding documents
 3.1 Secretary's Certificate (for corporation)
 3.2 Special Power of Attorney (for sole proprietorship)
- 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.

 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.

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

- 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.
- All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
- Bid opening shall be on 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: <u>www.quezoncity.gov.ph</u>

12. You may visit the following websites:

For downloading of Bidding Documents: <u>https://quezoncity.gov.ph/public-notices/procurement/</u>

By:

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

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 XII**, with Project Identification Number 22-00009.

[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 **Nine Million Eight Hundred Fifty-Five Thousand Four Hundred Sixty-Three Pesos & 80/100 Ctvs. (P 9,855,463.80).**
- 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**.

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

	1					
ITB Clause						
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.					
7.1	Subcon	Subcontracting is not allowed.				
10.3	No additional contractor license or permit is required					
	In add	ition, eligible bidders	shall qualify or comply	y with the following:		
	1. Bidd	lers with valid Philipp	ine Contractors Accred	itation Board (PCAB)		
	Тур	e				
	1	Building - Small B				
10.4	The m followi		ience requirements fo	or key personnel are the		
			FION OF HAND WA OF PINGKIAN I DA	SHING FACILITY AND Y CARE CENTER		
	Qnty.	Key Personnel	General Experience	Relevant Experience		
	1	Project Engineer	3 years	3 years		
	1	Safety Officer	3 years	3 years		
	1	Foreman	3 years	3 years		
	6	Skilled Worker	3 years	3 years		
	1	Driver	3 years	3 years		
	2	Laborer	1 year	3 months		
				SHING FACILITY AND 3 DAY CARE CENTER		
	Qnty.	Key Personnel	General Experience	Relevant Experience		
	1	Project Engineer	3 years	3 years		
	1	DPWH duly accredite Materials Engineer	ed 3 years	3 years		
	1	Safety Officer	3 years	3 years		

1	Foreman	3 years	3 years			
12	Skilled Worker	3 years	3 years			
1	Driver	3 years	3 years			
7	Laborer	1 year	3 months			
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF PINGKIAN III ZONE 2 DAY CARE CENTER						
Qnty.	Key Personnel	General Experience	Relevant Experience			
1	Project Engineer	3 years	3 years			
1	Safety Officer	3 years	3 years			
1	Foreman	3 years	3 years			
6	Skilled Worker	3 years	3 years			
1	Driver	3 years	3 years			
5	Laborer	1 year	3 months			
			SHING FACILITY ANI DAY CARE CENTER			
Qnty.	Key Personnel	General Experience	Relevant Experience			
1	Project Engineer	3 years	3 years			
1	DPWH duly accredit Materials Engineer	ed 3 years	3 years			
1	Safety Officer	3 years	3 years			
1	Foreman	3 years	3 years			
6	Skilled Worker	3 years	3 years			
1	Driver	3 years	3 years			
6	Laborer	1 year	3 months			

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

	Qnty.	Key Personnel	General Experience	Relevant Experience
	1	Project Engineer	3 years	3 years
	1	DPWH duly accredite Materials Engineer	ed 3 years	3 years
	1	Safety Officer	3 years	3 years
	1	Foreman	3 years	3 years
	6	Skilled Worker	3 years	3 years
	1	Driver	3 years	3 years
	6	Laborer	1 year	3 months
	notari		egoing personnel shal	avit of undertaking duly l perform work exclusively ched bid forms.
10.5	1	inimum major equipme		
	PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AN REHABILITATION OF PINGKIAN I DAY CARE CENTER			
	Equip	ment	Capacity	Number of Units
	Elf Truck Scaffolding Power Tools Minor Tools			1 as needed as needed as needed
	-			SHING FACILITY AND 3 DAY CARE CENTER
	Equip	ment	Capacity	Number of Units
	Elf Tr Scaffo Power Minor	lding Tools		1 as needed as needed as needed

		RUCTION OF HAND WASH OF PINGKIAN III ZONE 2			
	Equipment	Capacity	Number of Units		
	Elf Truck Scaffolding Power Tools Minor Tools		1 as needed as needed as needed		
		PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF CENTERVILLE DAY CARE CENTER			
	Equipment	Capacity	Number of Units		
	Elf Truck Scaffolding Power Tools Minor Tools		1 as needed as needed as needed		
		RUCTION OF HAND WASH ON OF VETERANS II DAY			
	Equipment	Capacity	Number of Units		
	Elf Truck Scaffolding Power Tools Minor Tools		1 as needed as needed as needed		
	notarized stating that th	er must execute an affidave he foregoing equipment shall pletion. Please see attached b	be used exclusively for		
12	[Insert Value Engineerir	ıg clause if allowed.]			
15.1	-	in the form of a Bid Securing llowing forms and amounts:	Declaration with project		
	(2%) of ABC if t	ot less than Php 197,109.28 or bid security is in cash, cashier' r irrevocable letter of credit; o	s/manager's check, bank		
		not less than Php 492,773.19 ABC if bid security is in Suret	-		
19.2		ed. The infrastructure project i be divided into sub-lots for award.	1 0 0		
20	No additional requireme	nt.			

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.

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 75 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	[Select one, delete the other.]
	[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:] Fifteen (15) years.
	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is <i>thirty (30) days</i> The date by which "as built" drawings are required as part of final payment
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are

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

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

Republic of the Philippines Quezon City



CITY ENGINEERING DEPARTMENT



Civic Center Suilding B, Quezon Oity Hall Compound, Elliptical Road Diliman, Central 1100 Quezon City Trunk line: +63 2 8988 4242

PROJECT TITLE:

LOCATION:

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF CENTERVILLE DAY CARE CENTER BARANGAY PASONG TAMO, DISTRICT 6. QUEZON CITY

TECHNICAL SPECIFICATIONS QUEZON CITY INFRASTRUCTURE PROJECT

I. GENERAL REQUIREMENTS

- a. Comply with the current and existing taws, 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.
- 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 prograss of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence
- f. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- g All equipment and installations shall meet or exceed minimum requirements of the standards and codes
- h Mobilization and Demobilization (if applicable).
 - Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - I 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
- Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by compatent workman. Provide a compatent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j Temporary Facilities and Utilities

- All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
- Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- Temporary utilities shall be sufficiently provided until the completion of the project auch as water, power and communication
- iv Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
- Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demolished, hauledout and disposed properly.
- Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged 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.
 - Additional safety precautions shall be provided in the observance of pandemic.
 Protocols set-forth by the government shall be strictly followed,
- 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.

IL 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.
- Remover / demolition of existing structures shall be done in accordance to safety procedures.

III. CIVIL / STRUCTURAL WORKS

A. MASONRY

- Masonry Units (CHB)⁺
 - 100mm thick for all interior walls and 125mm thick for all exterior walls unless otherwise indicated.
 - Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required
 - iii Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of oears or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.

b. Send:

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

d Morten

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

d. Plaster bond:

Apply plaster bond to all well area.

B. ROOFING WORKS

- a The roof shall be covered with Ga 24 pre-peinted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½ max. 3' long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purins with min. 2 ½ max. 3' long Tek screws. Ridge rolls, hip rolls end valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets et least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- c. All roofing sheets adjacent to concrete hollow block and other masonry waits such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.1. Frashing to extand to the top and over to the other side of the walk. All fasteners shall be placed at the top of the conjugations of the roofing sheets to prevent water from standing around the fasteners.

IV. ARCHITECTURAL WORKS

A. PAINTING WORKS

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

V. SANITARY / PLUMBING WORKS

- A Comply with the current applicable codes ordinances, and regulations of the authority or authorities having jurisdiction, the rules regulations and requirements of the utility companies (as applicable).
- 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 maters, 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, submittels, 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, submittels, shop drawings, pipes, fittings, velves, 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 turnish end install any such additional materials and equipment's required by the system at no edditional cost.
- 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 recessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K All materials, aquipment, 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, rooided when necessary to ensure clearance of debris.
- 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 dramage system to show that it is functioning satisfactorily within the requirements of this. Specification and local regulations.
- O. 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 Hydrautic 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 mm, 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 papework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psil
- 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/SEL7.
- Y. Instals hangers and supports to allow controlled thermal and seismic movement of p-ping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- 2 Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA Install building attachments within concrete slabs or etech 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, faster inserts to forms and install reinforcing bars through openings at top of inserts.
- 8B 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 instatiations 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 unspections 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.
 - Indoor Dry and Clean Locations' NEMA 250, Type 1.
 - Outdoor Locations. NEMA 250, Type 3R.
 - in. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
 - Other Wet or Damp Indoor Locations NEMA 250, Type 4.
 - Indoor Locations Subject to Dust, Falling Dint. 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 calling 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 Emishes

- Panels and Trim; Steel and galvanized steel, factory inished immediately effer cleaning and pretreating with manufacturer's standard two-coal baked-on finish consisting of prime coat and lharmosetting topcoat.
- Back Boxes: Galvanized steel Same finish as panels and trim.
- Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- F 2.7 Directory Card: Inside panelboard door, mounted in transparent card horder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
 - F 4 # 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.

JOHN CHRISTOPHER P. TOMACRUZ Planning and Programming Division

NAONG Å JOCE Planning and Programming Division



Replublika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT 5¹⁰⁴, 6¹¹⁴, 7¹²⁴ Floors, QC Civic Center Building 'B' Telephone Nos 8989-4242 Local 8538



PROJECT TITLE :

LOCATION .

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF PINGKIAN I DAY CARE CENTER BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

TECHNICAL SPECIFICATIONS

4 GENERAL REQUIREMENTS

- A Comply with the current and existing laws, ordinances and applicable codes, rules and regulations, and standards. Any works performed contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost ansing therefrom.
- 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).
 - 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 enymore 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.
- Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workman. Provide a competent, expenienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J. Temporary Facilities and Utilities
 - All facilities shall be near the jab site, where necessary and shall conform to the best standard for the required types.
 - Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations

- 3 Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage
- Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- 6 Upon completion of the work, the temporary facilities shall be demoirshed, hauled-out and disposed property.
- K Adequate construction safety and health protection shall be provided at all times ouring the execution of work to both workers and property.
 - A tuily-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duries.
 - The medical room shall be provided with waterproofing: it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazad window area of at least 2 square meters.
 - The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site
 - 4 Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed.
 - Personal Protective Equipment (PPE) shall consist of safety helmet/hard hat, safety reflectorized vest, safety insulated gloves, dust mask, safety shoes, safety goggles, and safety harness. Every skilled and unskilled worker, and the project foreman shall be provided PPE by the Contractor. Consideration of quantity shall be made for the Project Engineer, Matenals Engineer. Safety Officer/Practitioner (as required) and project driver.
 - Construction safety materials shall consist of safety net, fire extinguisher and safety signage and posters.
- Necessary protections to the adjacent property shall be provided to evoid untoward incidents / accidents.
- M Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing work.
- B This item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract.

Removal and/or demolition of existing structures shall be done in accordance to safety procedures.

C All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.

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

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

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

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

D All excavated materials, so far as suitable, shall be utilized as backfik. The surplus materials shall be disposed of in such manner as not to obstruct the straam or otherwise impair the efficiency or appearance of the structure. No excavated materials shall be deposited at environments of as to endanger the partly finished structure.

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

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

III. CIVIL / STRUCTURAL WORKS

A. ROOFING WORKS

- The roof shall be covered with Ge 24 pre-painted G I rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purkins with min. 2 ½ max.
 3' long Tek screws, Ridge rolts, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G I rib-type roofing sheets. They shall tap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- 2. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purins with min-2 % max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall kep the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- 3 All roofing sheets adjacent to concrete notiow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G I. Ftashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.Materials.
 - Steel and kron if not specified otherwise use standard mill-finished structural steel shapes or bar iron in compliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for buildings.
 - Bolts, Nuts, Studs and Rivets, ASTM A 307 and A 325.
 - c Screws Fed Spec FF-S-85, Fed. Spec FF-S-92, and Fed. Spec FF-S-111.

d Metal Purlins. High grade galvarized steel with minimum tensile strength of 275 MPa, 1.4mm in thickness or approved equal.

8. METAL FABRICATION

- 1. Materials:
 - e. Steel and Iron if not specified otherwise, use standard mill-finished structural steel shapes or bar iron in compliance with AISC Specifications for Design. Fabrication and Erection of Structural Steel for buildings
 - 5 Bolts, Nuts. Studs and Rivets. ASTM A 307 and A 325.
 - g. Screwal Fed. Spec FF-S-65, Fed. Spec FF-S-92, and Fed. Spec. FF-S-111.
 - h. Metal Purkins. High grade galvanized sleet with minimum tensile strength of 275 MPa, 1.4mm in thickness or approved equal.
- 2. Fabrication.

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

3. Metal Surfaces.

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

4 Construction:

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

5 Welding

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

IV. ARCHITECTURAL WORKS

A. FLOOR FINISHES

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

B. WALL FINISHES

- 300mm x 300mm Homogeneous Tiles including file adhesive
- 50mm concrete Topping with Plain Cement Finish.

C. PAINTING WORKS

- 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 Netional Institute of Science and Technology.
- 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 timing color to effect good paint body.
- 3 Skim coat. Skim coat shall be fine powder type material like kalsomine that can be mixed into putty consistency, with oil-based primers and paints to fill minor surface dents and imperfections.
- 4. Paint Schedule.
 - b. Exterior Masonry Wall (plain cement plastered finish to be painted)
 - I. 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish.
 - Interior Masonry Wall (plain cement plastered Shish to be painted).
 - 1 coat skim coating, 1 coat primer, 2 coats latex paint finish.
 - d Interior Dry Wall
 - t coat primer, 2 coats latex paint finish.
 - e. Ceiling Boards.
 - i. 1 coat primer, 2 coats tatex paint firmshi
 - f Slab Soffit
 - 1 coat primer, 2 coats latex paint finish.
 - g. Metal / Steel Surfaces
 - i 1 coat primer, 2 coats epoxy enamel finish
- 5. Surface Preparation. All surfaces shall be in proper condition to receive the finish. Woodworks shall be hand-sanded smooth and dusted clean. All knot-holes pitch pockets or sappy portions shall be sealed with natural wood filler. Nait holes, cracks or defects shall be carefully putted after the linst cost, matching the color of paint.

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

Concrete and masonry surfaces shall be obtaied 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:

- Voids, cracks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces
- Marred or damaged shop coals on metal shall be spot primed with appropriate metal primer.

- Panting and varnishing works shall not be commenced when it is too hot or cold.
- Allow appropriate ventilation during application and drying period.
- All hardware will be fitted and removed or protected prior to painting and varnishing, works.
- Application Paints when applied by brush shall become non-fluid, thick enough to lay
 down as adequate film of well paint. Brush marks shall have flawed out after application
 of paint.

Paints made for application by roller must be similar to brushing paint. It must be nonstroky when thinned to apreving 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 muted with it. This procedure changes the required properties of the paint.

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

D. CEILING FINISHES

Smm thick Fiber Cement Board including Metal Framing and Accessories

E. DOORS & WINDOWS

Follow as per approved plan and specifications.

F. FABRICATED MATERIALS

Follow as per approved plan and specifications

G. LETTERINGS

Pollow as per approved plan and specifications

V. SANITARY / PLUMBING WORKS

- A Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having junsdiction, the rules, regulations and regulatements of the utility companies (as applicable).
- Supply, installation and testing of the following:
 - Potable water supply system complete in all respects including but not limited to submittals, shop drawings, prping, water meters, valves, bibbs, insulation, all accessones 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, littings, valves, cleanout, drams, etc. Complete and operational.
 - 4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittats, shop drawings, pipes, fittings, valves, cleanout, drains, sto. Complete and operational.
- C. Workmanship and instellation 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.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or sinactural 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 eraction 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 recessary to ensure clearance of debris
- O. Cleaning and flushing shall be carried out in sectrons 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 shek provide suitable test pumps and arrange for a supply of water required in connection with feeting 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 walts 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 pope shall be leated 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 honzontally. 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 ps.
- 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/SEL7.
- 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 fateral 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 et changes in direction of piping. Install concrete userts before concrete is placed fasten installs to forms and install reinforcing bars through openings at top of inserts.
- B8. install hangers and supports so that piping live and dead loads and atrasses from movament 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 pip-ng.

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.
- Ali materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Flectrical Code and bearing the Philippine Standard Agency (PSA) mark
- 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.
- 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, clemps, 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 cell/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 tree 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.

9. WIRES AND WIRING DEVICES

- This Item shall consist of the furnishing and installation of all wires and wiring devices consisting of electric wires and cables, walk switches, conversionce receptacles, heavy duty receptacles and other devices shown on the approved Plans but not mentioned in these specifications.
- 2 Wres 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 kghting 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 wres 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 wres into conduits, sufficient slack shall be allowed to permit easy connections for fixtures, switches, receptacles and other wring devices without the use of additional splices.
- 4 All conductors of convenience outlets and lighting branch circuit homeruns shall be wred with a minimum of 3.5 mm in size. Circuit homeruns to panel boards shall not be

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

- All wires of 14mm and larger in size shall be connected to panels and apparetus by means of approved type lugs or connectors of the solderless type, sufficiently large enough to enclose all strands of the conductors and securely festened. They shall not loosen under vibration or normal strain.
- All joints, taps and splices on wires targer 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 winnig 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.
- All wall switches and raceptacies 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 well surfaces without the use of coded wire or similar devices. Plaster filling shall not be permitted. Platos installed in wet locations shall be gasketed.
- When more than one switch or device is indicated in a single location, geng plate shall be used.

RALPHGREGOR M. MANALO Planning and Programming Division

JOCELYN ACNAONG Planning Division



Replublika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

5TH, 5TH, 7TH Floors, QC Civic Center Building "B" (elephone Nos. 8986-4242 Local 8538



PROJECT TITLE : PROPOSED REHABILITATION OF PINGKIAN III ZONE 2 DAY CARE. CENTER EQUATION : BARANGAY PASONG TAMO, 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 strangent 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 shirt 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)
 - Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- Fxecute work in strict accordance with the best practices of the trades in a thorough, substantial, workmaniske manner by competent workman. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J. Temporary Facilities and Utilities
 - All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types
 - Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.

- Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage
- Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction pariod.
- Upon completion of the work, the temporary facilities shall be demonshed, hauled-out and disposed property.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A july-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
 - The medical room shall be provided with waterproofing, it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazeri window area of at least 2 square meters
 - The location of the medical room and any other arrangements shad be made known to all employees by posting on prominent locations and suitable notices in the site.
 - 4 Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed.
 - 5. Personal Protective Equipment (PPE) shall consist of safety helmat/hard hat, safety reflectorized vest, safety insulated gloves, dust mask, safety shoes, safety goggles, and safety harness. Every skilled and unskilled worker, and the project foreman shall be provided PPE by the Contractor. Consideration of quarkity shall be made for the Project Engineer. Materials Engineer, Safety Officer/Prectitioner (as required) and project driver.
 - Construction safety materials shall consist of safety rist, fire extinguisher and safety signage and posters
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- M Final cleaning of the work shall be employed prior to the final inspection for the cartification 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.

IL SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing work.
- B This item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fances, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract.

Removal and/or itemplifion of existing structures shall be done in accordance to safety, procedures

C All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soll particles are not disturbed or removed.

The Contractor shall notify the Engineer sufficiently in advance of the beginning of any excevation so that cross-sectional elevations and measurements may be taken on the undisturbed ground. The natural ground adjacant to the structure shall not be disturbed without permission of the Engineer. Trenches or foundation pits for structures or structure footings shall be excavated to the lines and grades or elevations shown on the Plans or as staked by the Engineer. They shall be of sufficient size to permit the placing of structures or structure footings of the full width and length shown. The elevations of the bottoms of footings, as shown on the Plans, shall be considered as approximate only and the Engineer may order, in writing, such changes in dimensions or elevations of footings as may be deemed necessary, to secure a satisfactory foundation.

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

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

All excavated materials, so far as suitable, shell be utilized as backfik. The surplus materials shell be disposed of in such manner as not to obstruct the stream or otherwise impair the efficiency or appearance of the structure. No excavated materials shell be deposited at any time so as to endanger the parily finished structure.

All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shell be (horoughly compacted by wetting, tamping and rolling,

- E. Soit Poisoning. There are two methods usually adopted in soil poisoning which are as follows:
 - Cordoning. This method is usually adopted when there is no visible evidence of termite infestation. Tranches in concentric circles, squares or rectangles are dug 150mm to 220mm wide and at least one meter apart and applied with Liquid Termicide Concentrate working solution at tho rate of 8 liters per linear meter
 - 2 Drenching. When soil show termite infestation, this method shall be applied. The building area shall be thoroughly drenched with Liquid Termicide Concentrate working solution at the rate of 24 liters per square meter.

III. CIVIL / STRUCTURAL WORKS

A. ROOFING WORKS

- The roof shall be covered with Ca. 24 pre-painted G.I. no type roofing sheets as shown on the plans. The roofing shall be secured to the plattins with min-2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga-24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- 2. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ¼' max. 3' long Tek screws. Riogo rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- 3 All roofing sheets acjacent to concrete holiow block and other masonry wells such as property line firewalts, shall be provided with Gauge 26 pre-painted plain G t. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners Materials.
 - Steel and Iron. If not specified otherwise, use standard mitl-finished structural steel shapes or bar iron in compliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for buildings.
 - Bolts, Nuts. Studs and Rivels. ASTM A 307 and A 325.
 - c Screws Fed Spec FF-S-85, Fed. Spec FF-S-92, and Fed Spec. FF-S-111.

d Metal Purlins. High grade galvanized steel with minimum tensite strength of 275 MPa, 1.4mm in linckness or approved equal.

B. METAL FABRICATION

- 1. Materials:
 - Steel and Iron. If not specified otherwise, use standard mill-finished structural steel shapes or bar iron in compliance with AISC Specifications for Design, Fabrication and Erection of Structure! Steel for buildings
 - Bolts, Nuts. Studs and Rivets. ASTM A 307 and A 325.
 - g. Screws Fed Spec FF-S-85 Fed Spec FF-S-92, and Fed Spec. FF-S-111.
 - Matal Purlins. High grade galvanized steel with minimum tensite strength of 275 MPa, 1.4mm in thickness or approved equal.
- 2. Fabrication:

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

3. Metal Surfaces

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

Construction:

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

5. Weicking.

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

IV. ARCHITECTURAL WORKS

A. FLOOR FINISHES

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

B. WALL FINISHES

- 1. 300mm x 300mm Homogeneous Tiles including tile adhesive
- 50mm concrete Topping with Plain Coment Flhish.

G. PAINTING WORKS

- 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.
- 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.
- Skim coat. Skim coat shall be fine powder type material like kalsomine that can be mixed into putty consistency, with oil-based primers and paints to fill minor surface dents and imperfections.
- 4. Paint Schedule.
 - b. Exterior Masonry Wall (plain cemont plastered finish to be painted)
 - i 1 coal skim coaling, 1 coat primer, 2 coals elastomeric paint finish.
 - Intenor Masonry Wati (plan cement plastered finish to be painted).
 - 1 cost skim coeting, 1 cost primer, 2 costs latex paint finish.
 - d. Interior Dry Wall
 - 1 cost primer, 2 coats latex paint finish.
 - e Ceiting Boards
 - 1 coat primer, 2 coats latex paint finish.
 - Slab Soffit
 - 1 cost primer, 2 costs latex paint finish.
 - g Metal / Steel Surfaces
 - 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-sended 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 putted after the first cost metching the color of paint.

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

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

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

In addition, the Contractor shall undertake the following.

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

- Panting and varnishing works shall not be commenced when it is too hot or cold.
- d. Allow appropriate ventilation during application and drying period
- All hardwars will be fitted and removed or protected prior to painting and varnishing works.
- Application. Paints when applied by brush shall become non-fluid, thick enough to kay down as adequate film of wet paint. Brush marks shall have flawed out after application of paint.

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

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

- ii. Application shall be as per paint Manufacturer's specification and recommendation.
- Provide all drop cloth and other covering requisite for protection of floors, walls, atuminum, glass, finishes and other works
- Alt applications and methods used shall strictly follow the Manufacturer's Instructions, and Specifications.
- All surfaces including masonry wall shall be thoroughly cleaned, publied, sandpapered, rubbed and polisited, masonry wall shall be treated with Neutralizer.
- vi. All exposed (inish 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.
- vi: All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

D. CEILING FINISHES

6mm thick Fiber Cement Board including Metal Framing and Accessories

E. DOORS & WINDOWS

Follow as per approved plan and specifications.

F. FABRICATED MATERIALS

Follow as per approved plan and specifications

G. LETTERINGS

Follow as per approved plan and specifications.

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B Supply, installation and testing of the following:
 - Poteble water supply system complete in all respects including but not imited to submittals, shop drawings, piping, water meters, valves, bibbs insufation, ell accessories required for complete and operational of the system.
 - Water service connections including but not limited to water meters, fixed values. Any and all other works involve in providing the complete operation of the water supply system.
 - 3 Soil waste and vant system complete in all respect including but not limited to connection to existing sever submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational
 - Storm drainage system complete in all respect including but not limited to connection to existing storm drainage submittels, shop drawings, pipes, fittings, vaives, creanout, 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 quality 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 of the drawings.
- 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 ascartain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against demage 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 senitary fittings and pipework shall be cleaned after installation and keep them in a new condition.

- N Ail installed pipelines shall be flushed through with water, rodged when racessary 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 amange for a supply of water required in connection with testing of pipework. The test pump shall be litted 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. Oramage 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 ps.
- 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/SEL7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe enchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units
- Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA Install building attachments within concrete stabs 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 insens 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.

- This item shell 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 roughingm 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 Cride and bearing the Philippine Standard Agency (PSA) mark
- 3 All works throughout shall be executed in the best practice in a workmanilike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer.
- 4 The work to be done under this durision 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 particles of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
- All lighting fixtures and lamps are as specified and listed on lighting fixture schedule.
- 6 All grounging 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 Alt 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 dona in accordance with the approved design.
- B. 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 remediad 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.
- 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 stack 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 orcust homeruns shall be wired with a minimum of 3.5 mm in size. Circuit homeruns to panel boards shall not be

smaller than 3.5 mm but all homeruns to panel board more than 30 mellers shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size

- All wires of 14mm and larger in size shall be connected to panels and apparatus by means of approved type lugs or connectors of the soldentess 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 auitable soldeness 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.
- 6. 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 or continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plaster fitting shall not be permitted. Plates installed in wet locations shall be gasketed.
- When more than one switch or device is indicated in a single location, gang plate shall be used.

RALPHEREGOR M. MANALO Planning and Programming Division

K NAONG IOĆ Planking and Programming Division

Republic of the Philippines

Quezon City



CITY ENGINEERING DEPARTMENT



Civic Conter Building B, Quezon City Hall Compound, Elliptical Road Diliman, Central 1100 Que204 City Trunk line, +63 2 8988 4242

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND PROJECT TITLE: REPABILITATION OF PINGKIAN III ZONE 3 DAY CARE CENTER

BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY LOCATION:

GENERAL REQUIREMENTS L

- 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 erising 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 exital compensation and extension of time shall be given due to negligence or inadvertence
- The quakity of materials shall be of the best grade of their respective kinds for the Ľ. – 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.
- Mobilization and Demobilization (if applicable)
 - Mobilization shall include all activities and related costs for transportation of i. personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site
 - Demobilization shall include all activities and costs for transportation of personnel, ij. equipment, and supplies not anymore required within the construction site including. the disassembly, removel and site clean-up of offices and other facilities assembled on the site specifically for this contract.

- Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by compatent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j. Temporary Facilities and Utilities
 - All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
 - Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
 - Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
 - Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
 - Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the antire construction period.
 - Upon completion of the work, the temporary facilities shall be demolished, heuled-out and disposed properly.
- k Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged 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.
- I Necessary protections to the adjacent property shall be provided to avoid unloward incidents / accidents.
- m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B Removal / demolition of existing structures shall be done in accordance to safety procedures.
- C All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.
- D All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted watting, tamping and rolling

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

- a Delivery Storage, and Handhing; All materials shaft 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.
- 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.

Materials

- 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 bils, acide, alkaline, organic materials or other substances that may be deletenous to concrete or steet.
- iii. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be course, sharp, clean free from salt, dust, loam, dirt and all foreign matters.
- rv. 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.

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

e. Forms

- i. General Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacont, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be ¼" waterproof plywood and form lumber
- Cleaning of Forms before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material

- 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 aring shall be started as soon as the surface is sufficiently hard to permit it without further damage.
- I. Placing Reinforcement:

Steel reinforcement shall be provided as indicated, together with all necessary wire tires, chairs, spacer supported and other devices necessary to instell and secure the reinforcement property. All reinforcement, when placed, shall be free from loose, flaky rust and scale, or 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 dispolaration or deterioration of the concrete.

- g. Conveying and Placing Concrete:
 - 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.
 - if Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded dems, 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 cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
 - 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 stabs, where the congestion of steel near the forms makes placing difficult, a layer of montar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

h Curing

- General All concrete shall be moist cured for a penod not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.
- Moist Curing The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials theroughly saturated with water and keeping the covering spraying or intermittent hosing.
- i. Finjshing
 - 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 camant mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.

 Concrete Slabs on Fill. The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

B. MASONRY

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

\$-1, washed, clean and greenish in color.

c Morter

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

d. Plaster bond:

Apply plaster bond to all wall area.

C. ROOFING WORKS

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

D. WATERPROOFING

Weterproofing:

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 Teating

Tost waterprooted 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 seaked 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

- 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.
- Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- AN applications and methods used shall strictly follow the Manufacturer's instructions, and Specifications.
- All surfaces including mesonry wall shall be thoroughly cleaned, putled, 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 and angered by stains and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

- A Comply with the current applicable codes, ordinarices, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- 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, blobs, insulation, all accessories required for complete and operational of the system.
 - B.2 Water service connections including but not fimited 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, submittels, 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
- 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 aquipment 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 orginally specified or indicated in the drawings, the Contractor shall furnish and instalt any such edditional materials and equipment's not an additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials equipment, components and accessories shall be delivered to the Site in a new condition, property 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.
- 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 walts and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- 5 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 than that section of pipework or equipment shall be retested at the appropriate test pressure.
- T The Sanifaty 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/SEL7
- 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 bands, and similar units.
- Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steet. Install additional attachments at concentrated loads, including velves, 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 bass through openings at top of inserts.
- 88. Install hangers and supports so that piping five 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 831.9 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 workman.
- 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

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- F.1 Fabricate and test panelboards according to IEEE 344 to withstand seismic foreas defined in Division 16 Sections 16073 and 16074 "Mangers 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
 - Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - ii Ouldoor Locations. NEMA 250, Type 3R
 - iii Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel
 - Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
 - Indoor Locations Subject to Dust, Falling Dirt, and Dripping. Noncomosive 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 binged to box and with standard door within binged 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 Inish as panelboard enclosure, integral with enclosure body. Arrange to isolate individual panel sections.

F.2.6 Finishes:

- 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.
- Back Boxes Galvanized steel Same finish as panels and trim.
- 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 tisted as suitable for nonlinear loads.

KHENNETT E. CHAN

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JOGEL INA. NAONG

Planning and Programming Onesion

Planning and Programming Division



Republic of the Philippines Quezon City



Cwc Center Building B, Quezon City Hall Compound, Elliptical Boad Diliman, Central 1100 Quezon City Trunk line: +63 2 8988 4242

CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

LOCATION:

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF VETERANS II DAY CARE CENTER BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

TECHNICAL SPECIFICATIONS QUEZON CITY INFRASTRUCTURE PROJECT

I. GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost ansing therefrom.
- b. Orawings specifications codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- 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 ventication / 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. At materials not conforming to the requirements of these specifications shall be considered as defective.
- g At equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- h. Mobilization and Demobilization (if applicable)
 - Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site, establishment of offices, puildings, and other necessary general facilities for the operations at the site.
 - ii. Demotellization 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 cleap-up of offices and other facilities assembled on the site specifically for this contract.
- i Execute work in strict accordance with the best prectices of the trades in a thorough, substantial, workmanlike manner by competent workman Provide a competent, expensived, full-time supervisor who is authorized to make decisions on behalt of the Contractor.
- j. Temporary Facilities and Utilities

- All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
- 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
- Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages
- Temporary readways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demolished, hauledout and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
 - 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.
 - Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- 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 gredes, 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 / demoktion of existing structures shall be done in accordance to safety procedures.
- C All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.
- O All backfills shall be placed in layers not exceeding to 150mm in thickness and each tayer shall be thoroughly compacted wetting, tamping and rolling.

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

a. Delivery, Storage, and Handling. All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the demage 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 of 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 litems. 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
 - Cement for concrete shall conform to the requirements of specifications for Pontland Cement (ASTM C = 150)
 - Water used in mixing concrete shall be clean and free from other injuncus amounts of oils acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
 - III. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates" Sand particle shall be course, sharp, clean free from salk, dust, loam, dirt and all loreign 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.
- Proportioning and Mixing.
 - Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions:

Cement . Sand . Gravel

- Cless A' 1 2;3
- Class 'B' 1 : 2 : 4
- Class C 1.2%
- ii. Concrete mixture to be used for concrete shall conform with the structural requirements.
- Mixing concrete shall be machino mixed. Mixing shall begin within 30 minutes after the cament has been added to the aggregatos.
- e. Forms
 - i. General Forms shall be used whatever necessary to contine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or morter from the concrete. Forms shall be 1/2" waterproof plywood and form lumber.
 - Cleaning of Forms before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material.
 - 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 tires, chairs, spacer supported and other devices necessary to install and secure the

reinforcement properly. Alt 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.

- 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 comers and angles of the forms and around all remforcement 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) maters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum tateral 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 cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
 - v. Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse eggregate occurs. On the bottom of beams and stabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same coment-sand ratios as used in concrete shall be first deposited to cover the surfaces.
- h Curing
 - General All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.
 - Moist Curing The surface of the concrete shall be kept continuously wet by covering with burlap plassic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing
- 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 kne and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.
 - Concrete Slabs on Fill. The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

B. MASONRY

- Masonry Units (CHB).
 - 100mm thick for all interior walls and 125mm thick for all exterior walls unless otherwise indicated.
 - Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.
 - vi. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.
- b. Sand.

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

c. Mortar:

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

d. Plaster bond.

Apply plaster bond to all wall area.

C. ROOFING WORKS

- a The root shall be covered with Ga 24 pre-painted G I rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purties with min. 2 1% max. 3° long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheats as shown on the plans. The roofing shall be secured to the purlins with min-2 ½° max. 3° long Tek screws. Ridge rolfs, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheats. They shall tep the roofing sheats at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheats.
- c All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

IV, ARCHITECTURAL WORKS

A. PAINTING WORKS

- All primers, thirmans and putty, also waterproofing for internal and external application shall be the same brend as the specified material.
- p Application shall be as per paint Manufacturer's specification and recommendation.
- Provide all drop cloth and other covering requisite for protection of floors walls, aluminum glass, finishes and other works.
- All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.

- All surfaces including masonry wall shall be thoroughly cleaned, puttled, sandpapered, rubbed and polished: masonry well shall be treated with Neutrelizer
- 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).
- 8 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 maters, 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.
 - 8.4 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.
- 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 necessitätes 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.
- 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.
- This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials equipment, components and accessories shall be delivered to the Site in a new condition, property 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 demage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
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- 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 exrange 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. Hydrautic tests shall be carried out as the pipework is installed and shall be completed before chases m walls and ducts are closed. Also test shall be carried out prior to false callings 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.
- 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 mm, 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 ps.
- 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/SEL7.
- 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 awaying.
- AA Install building attachments within concrete stabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and skraners. 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)
- 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 workman.
- 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.
 - Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - Butdoor Locations: NEMA 250, Type 3R.
 - ni Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stain/ess steel.
 - iv. Other Wet or Damp Indoor Locations: NEMA 250 Type 4.
 - Indeor Locations Subject to Dust, Falling Dirt, and Oripping. Noncorrosive Liquids NEMA 250, Type 5 or Type 12
 - F 2.2 Front: Secured to box with concealed trim clamps. For surface-mounted tronts, match box dimensions; for flush-mounted fronts, overlap box.
 - F.2.3 Hinged Front Cover Entire front trim hinged to box and with stendard door within hinged trim cover
 - F 2.4 Skint for Surface-Mounted Panelboards: Same gage and finish as panelboard front with franges for attachment to panelboard, wall, and celling or floor.
 - F.2.5 Gutter Extension and Barrier: Same gage and finish as panelocard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.

F.2.6 Finishes.

- Panels and Trim Steel and galvanized steel, factory finished immediately after cleaning and pratracting with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
- ii. Back Boxes Galvenized steet Same finish as panels and lom.
- Fungus Proofing Permanent fungicidal treatment for overcurrent protective devices and other components.
- F.2.7 Directory Card: Inside panelboard door, recuried 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 steel as suitable (or nonlinear loads,

VII. MECHANICAL WORKS (IF APPLICABLE)

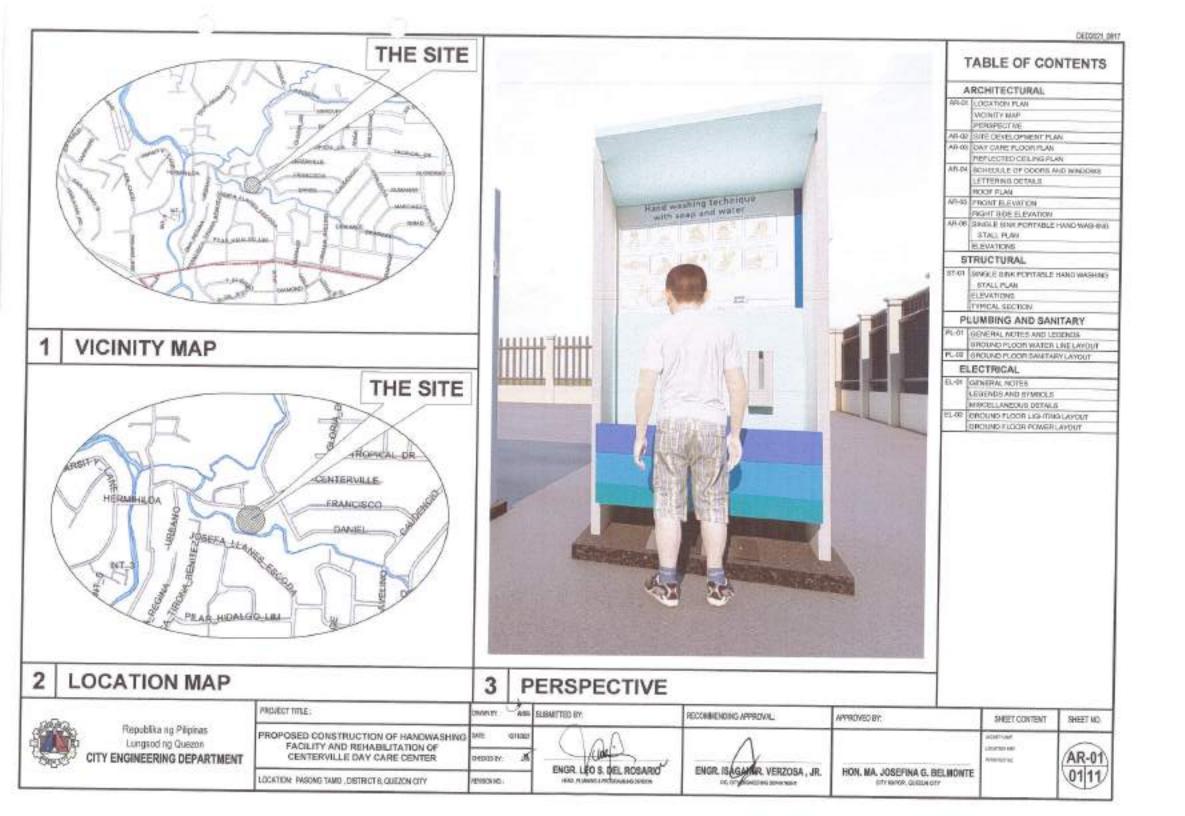
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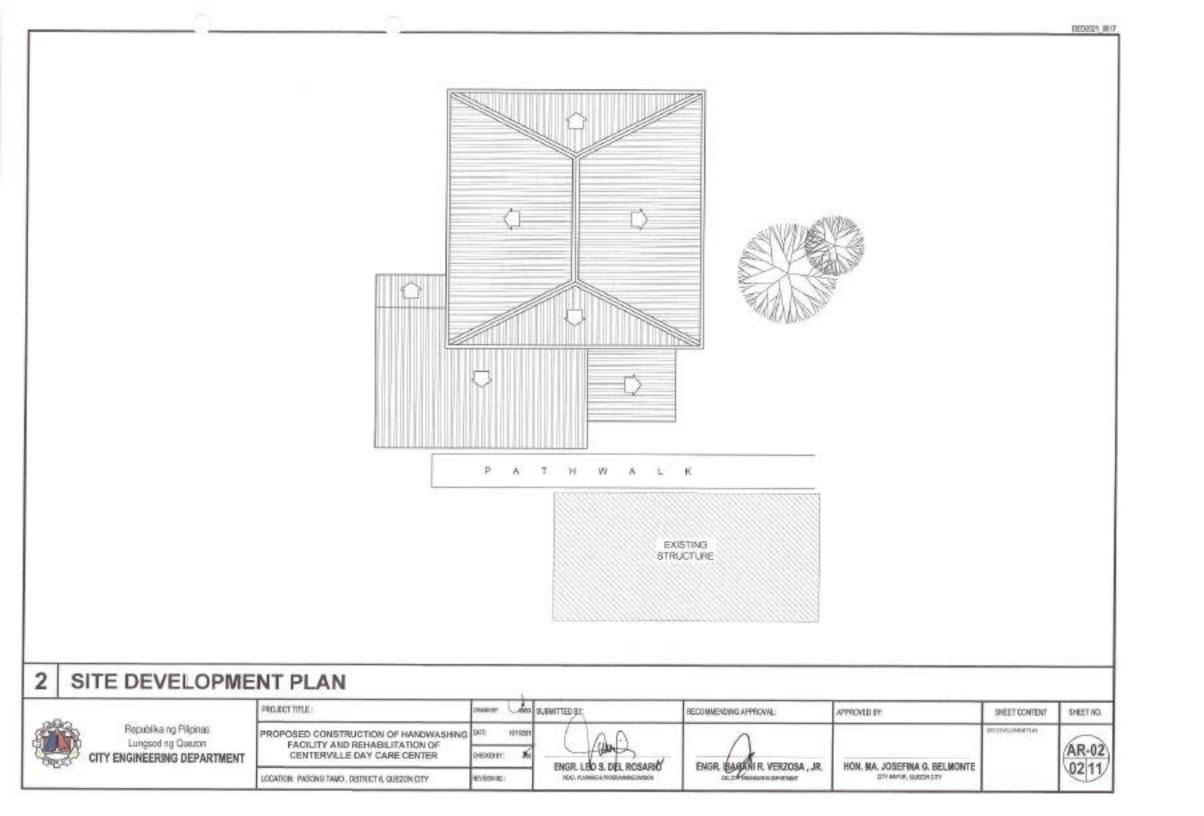
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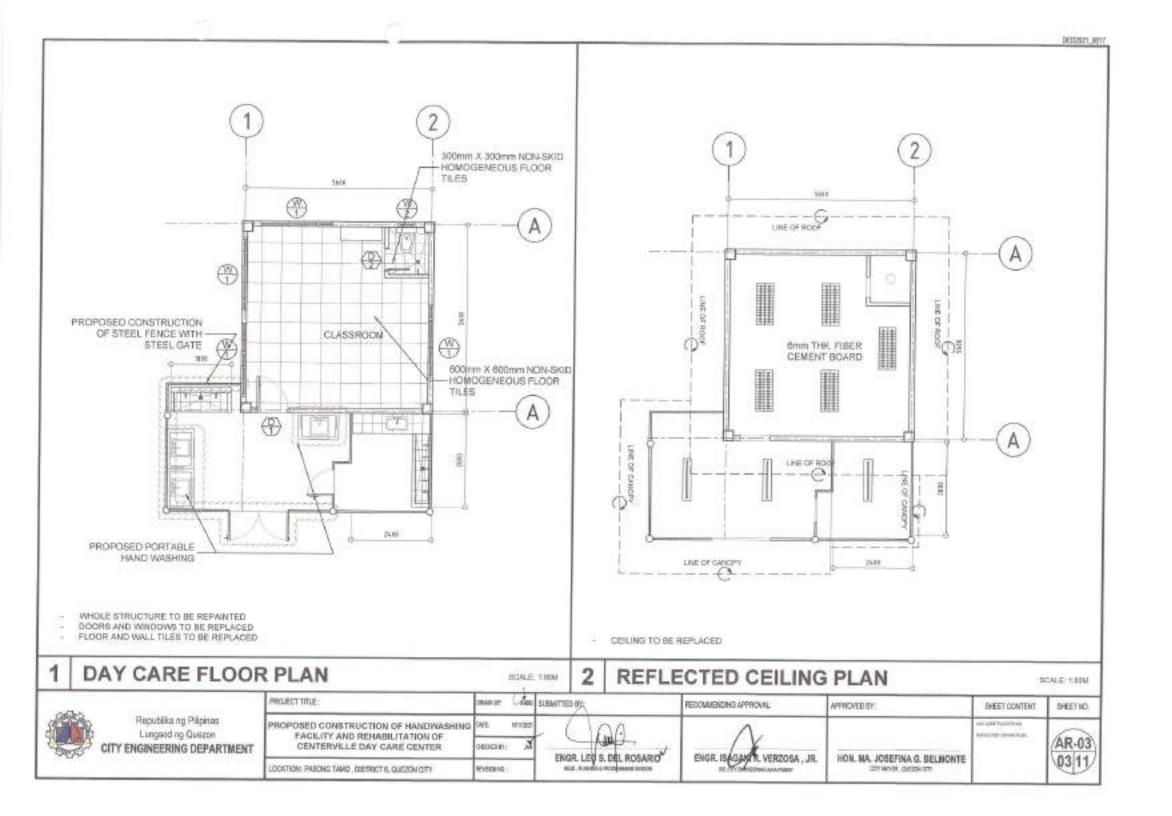
JOCELYN A. NAONG Planning and Programming Division

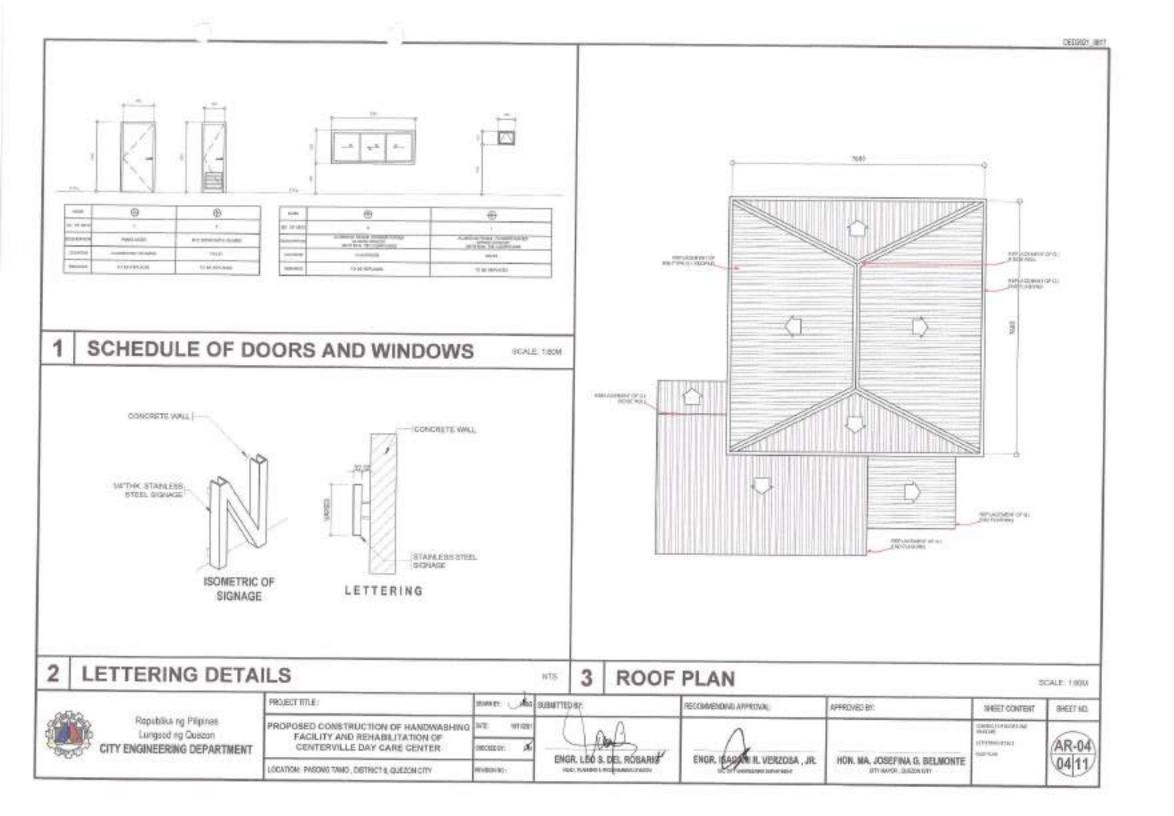
Section VII. Drawings

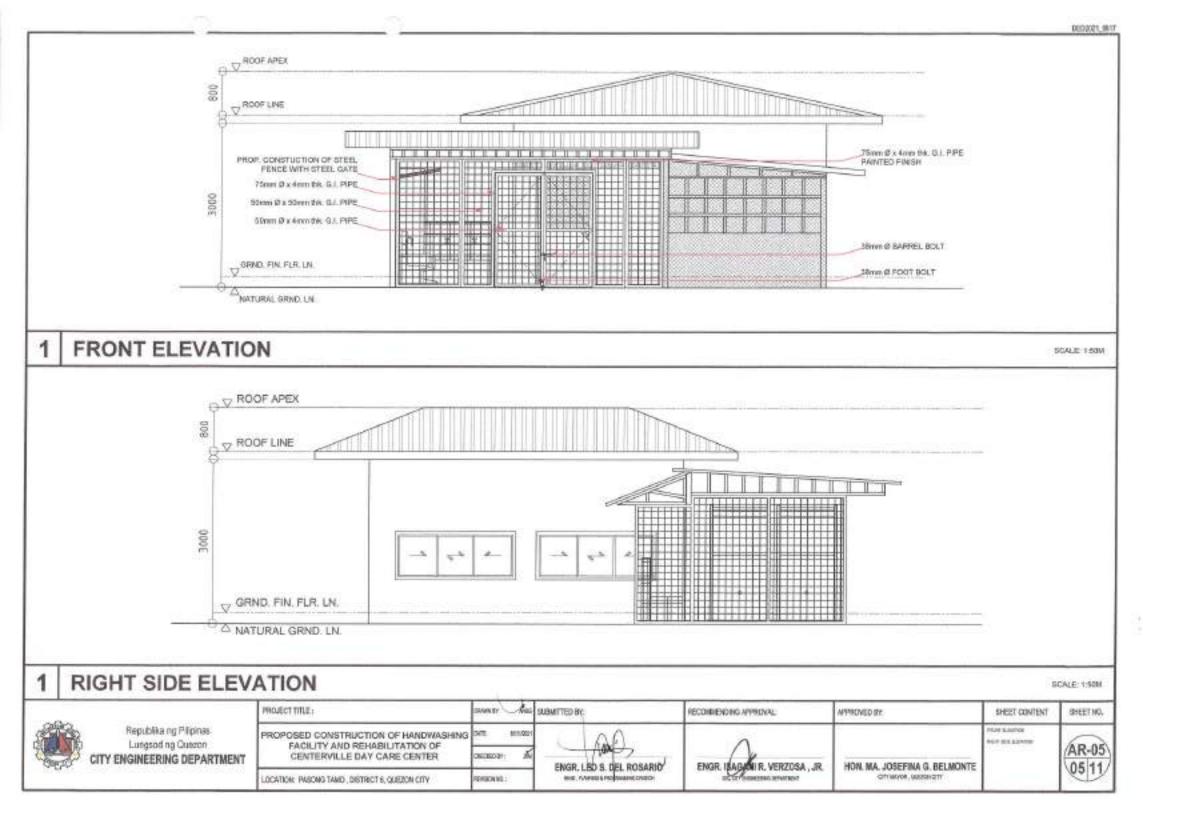
[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

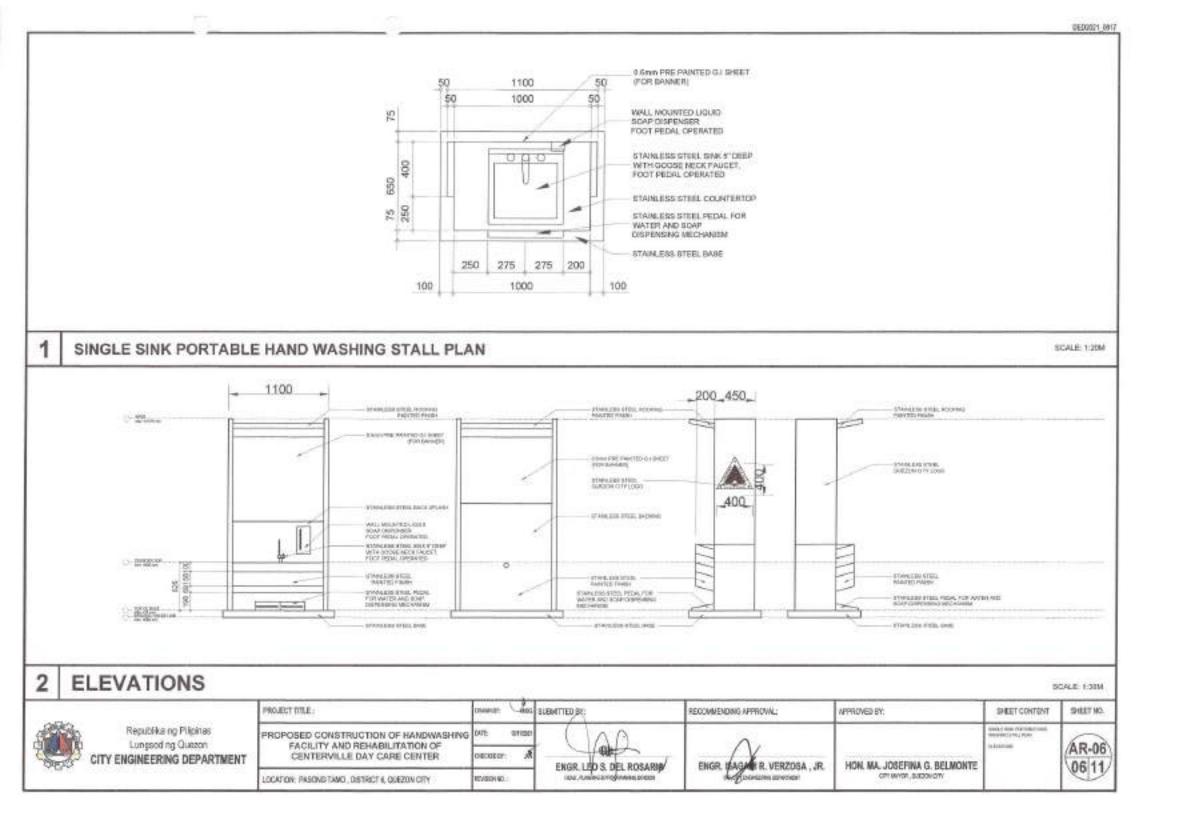


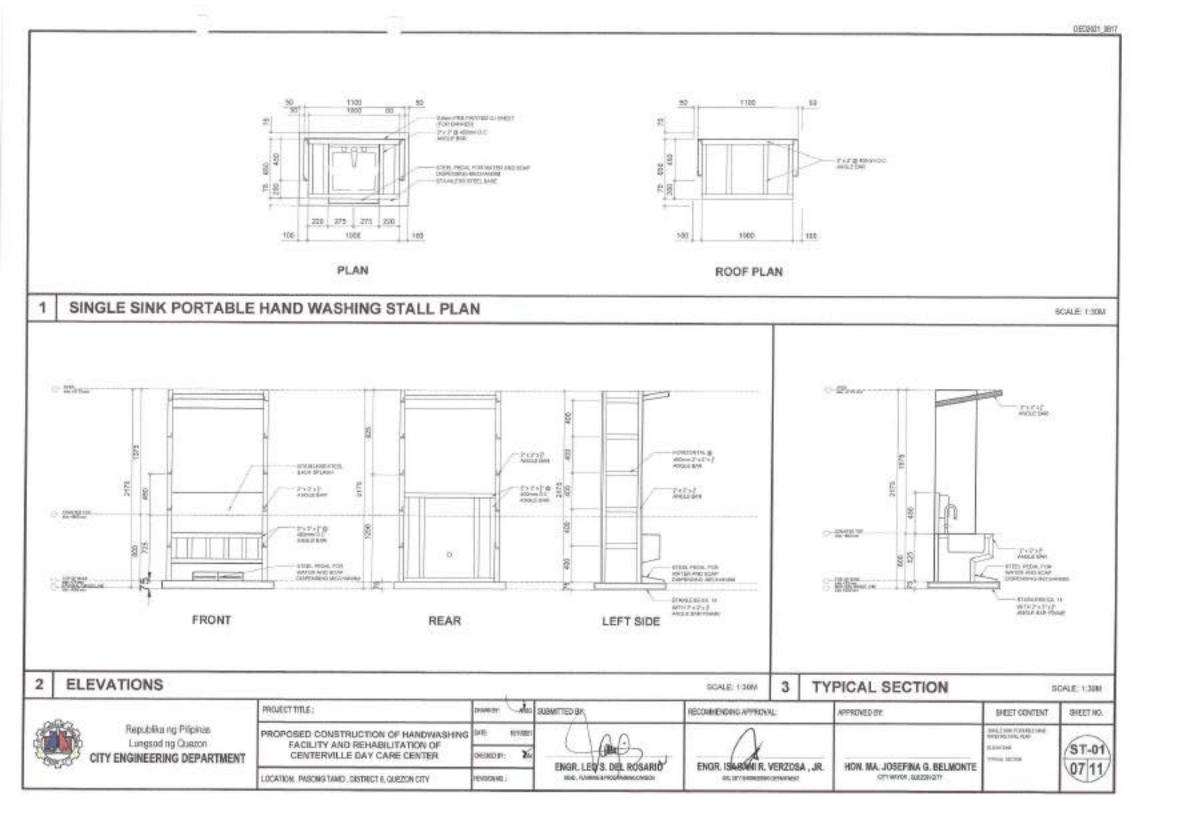












GENERAL NOTES:

- 1.1 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.
- The plumbing layout is only diagrammatic; pipes, cleanouts and check valves shall be consealed as much as 2. 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.
- The plumbing contractor shall verify all existing utilities at the site and shall coordinate the work with other trades. 3
- Pipes shall not be embedded in structural members unless otherwise specified or allowed. 4
- Minimum slope for horizontal sewer lines shall be 1% and for drain lines shall be 5%. 5.
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- 12. All cast iron pipes shall be of approved quality and GJ, pipes for water distribution lines shall be Schedule 40 U.S. standard weight.

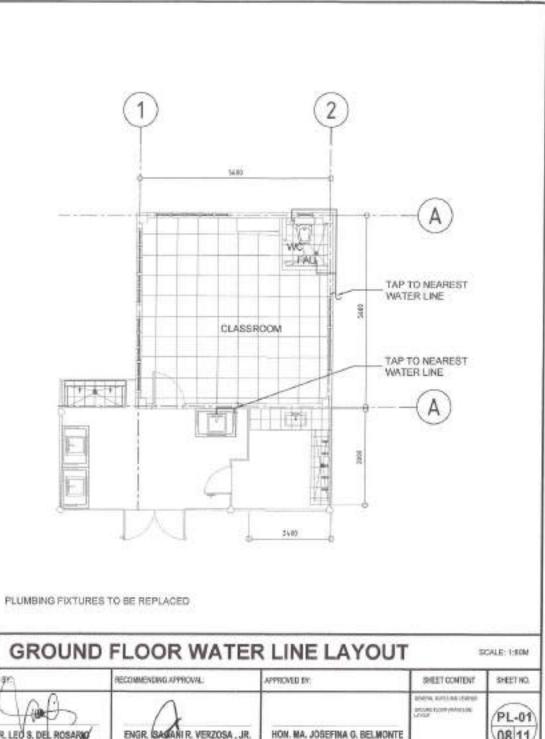
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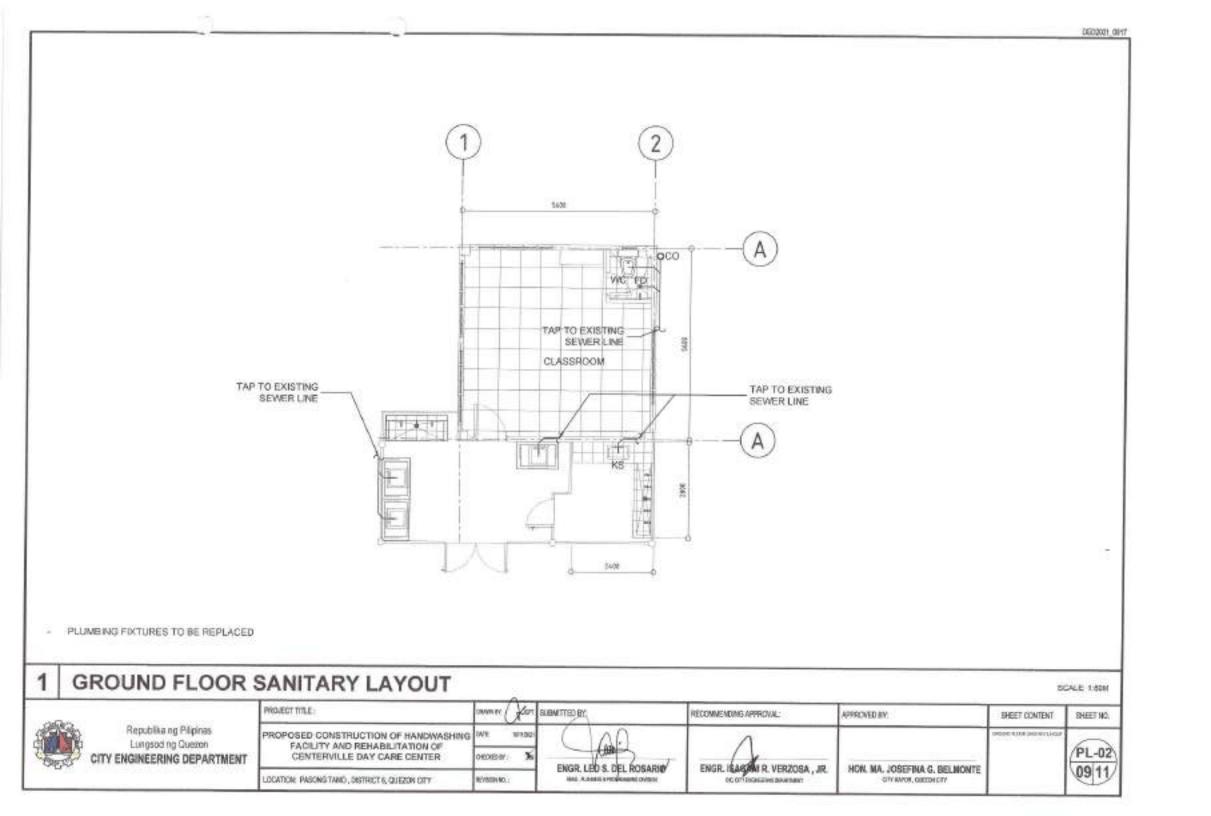
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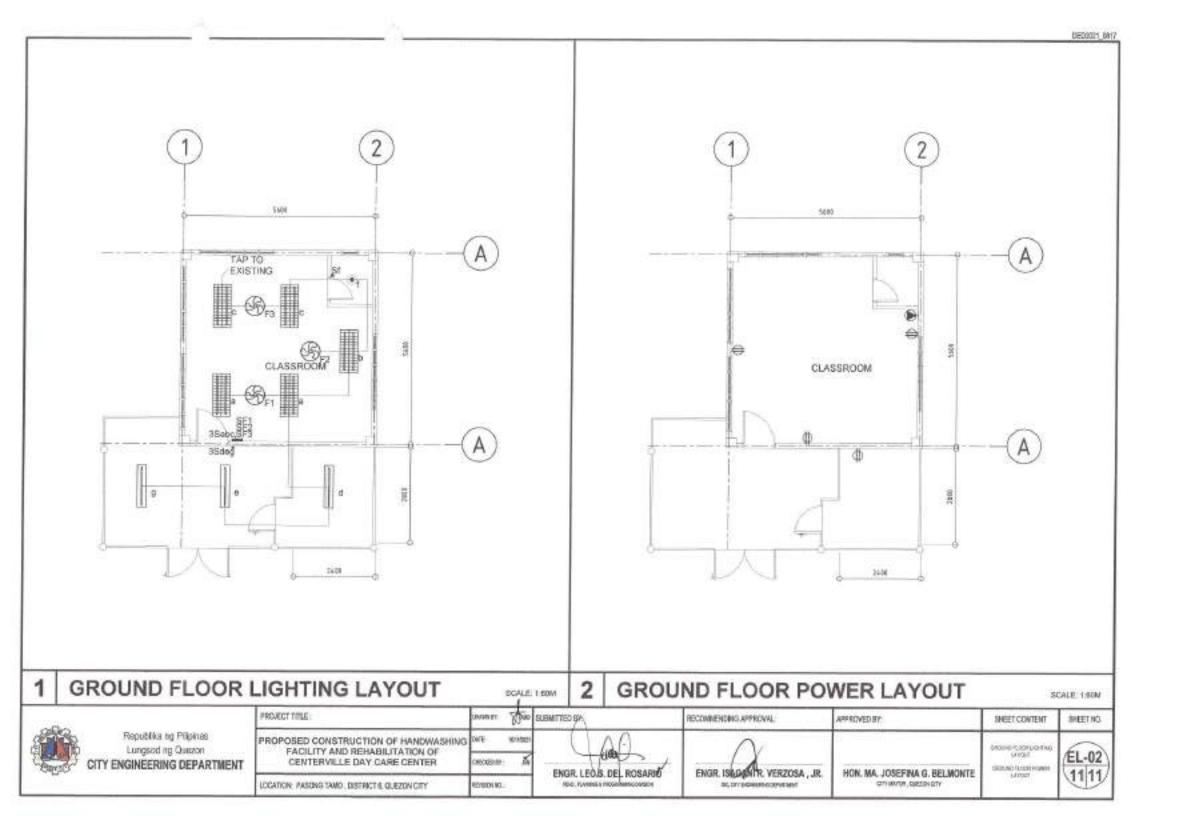
- 16. All hose bibbs shall be 19 mm @ (3/4" Ø) unless otherwise indicated.
- 17. Inlet pipe of septic tank is 50 mm higher than the siphon pipe which is 30 mm higher than the outlet pipe.
- 18. All plumbing works and manner of construction shall be under the direct supervision of an able and duty licensed. Master Plumber or Registered Sanitary Engineer, Any discrepancies found in plan shall be notified to the same person

-0	UNION PATENT		PIPEUP
	CHECK VALVE	alon .	MILLINETER
86	BUILDING SEWER	<i>av</i>	GATE VALVE
80	BUILDING DRAIN	1	AREA ORAIN / CATCH BASIN
WT.	WASTELINE	WC	WATER CLOSET
AD/108	AREA DRAIN / CATCH BASIN	LAV	LAVATORY
10	FLOOR DRAIN	MIC	MWHOLE
ė.	OWNETER	1-8	HOSE 8186
	WASTELINE	-	STORM DRAIN LINE
	WATERLINE		VENT LINE
	GATE VALVE	WAG	VENT ABOVE CELING
DD	DECK DRAIN	G#/RG*	CONCRETE PIPE/REINF. CONC. PIPE
- 611	CLEANOUT	VIA	VENT THRU ROOF
	PIPE DOWN	104	DIRECTION OF FLOW/ SLOPE



1	GENERAL NOTES AND LEGENDS			~	2	GROUND	FLOOR WATER	R LINE LAYOUT	' s	1000
i		PROJECT TITLE :	Distance:	Kar	SUBDITTE	pger:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	ĺ
1	Republika ng Pilipinas Langsod ng Quezon CITY ENGINEERING DEPARTMENT	PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF CENTERVILLE DAY CARE CENTER	DALE ORDADAY:	ionezzi K		JAD.	$-\alpha$		BENEVA, KURLINA LEVENI DECINE PLOTE VINISTIAL LEVENI	
of		LOCATION PASONE TAND DISTRICT & DISTONOTY	RY50140-			R. LEO S. DEL ROSARIO	ENGR. ISAGANI R. VERZOSA , JR.	HON. MA. JOSEFINA G. BELMONTE		l





GENERAL NOTES:

- ALLELECTIONAL WORKS IP-ALL RETICKE IN NOCORDANIES WITH THE PROVIDENCE OF THE LATERT EDITION OF THE PROPERTY. IN RET WORL CODE. THE LANS AND DROMANIZED OF THE LOOKL CODE (OVERADING AUTHORITIES AND THE RECLINEMENTS OF THE LOCAL POWER AND TELEPHONE LITUTY COMPANY.
- 2. THE CONTRACTOR BHILL BOURG ALL PERMITS AND RAY ALL PTER RESURCE FOR THE GROW AND DWILL PURPHIC THE OTHER THROUGH THE ENGINEERS, FILM, GERTIFICATES OF BLECTHON, INDRECTOMAND APPROVALIZACIE INSPER-GOVERNMENT INTRODUCES FOR COMPLETION OF INCIDE
- 1 ALL EMBEDDIED BRANCH GRELITE SHILL BE THE CENSULTS AND FOR ESPOSED INSTALLATION BANL, IN INC SUPPORTED BY CONDUCT DUAMPS EVERY XXX INLEMPTOR
- 8 FULL BOOK IS INHALL BE PROVIDED BY THE COMPANY FOR WHEN BY SELEASARY TO FACULTATE WHE PULL AND AND/OF THESE AND HER INSTANDANTED ON THE PLANS. BERNS OF ALL MALLSONED DHALL BE CONFURNMENTED ON THE CODE REQUIREMENTS. EVENT SHOP DRAWINGS TO THE BURRELE FOR APPROVEL PROB TO FAIRBOATION LODATION OF PULLOOKS EVEL. IN APPROVED BY THE UNCHITECTION CALER AND MUST BE REPLACED ON THE VALUE OF MAN
- ALPOWER OUTLETS AND DRITCHES THALL BE GROUNDED TYPE WITH REVALLED BLOTS FOR 2001.
- # PROVIDE GROUND HALLY CLARENT AITEMUTICS ORCLET REGARD FOR LOAD HARRED GFO" ON THE PLAN.
- MIL HETAULIC CONDUITE, SAMHETS MID ESUPWENT GAAL, HE PROMINENT INFORMED AND BONDED.
- 8. LABLERS OTHERWISE NOTED, ACCUMULE HEROHT FOR WALL MELANTED OF ACES SHALL HE AS FOLLOWS.

PRESERVED GUIDE ET - 100 MIN AFF , CREMALN, SOME WORKSHO COUNTER: TALEPHONE OUTLET - 100 MM AND ESTAIDUTET - 300 MR ALT LINHTING EWITCH - 1498 MILLARY SAND DOARD - 1903 SELAM

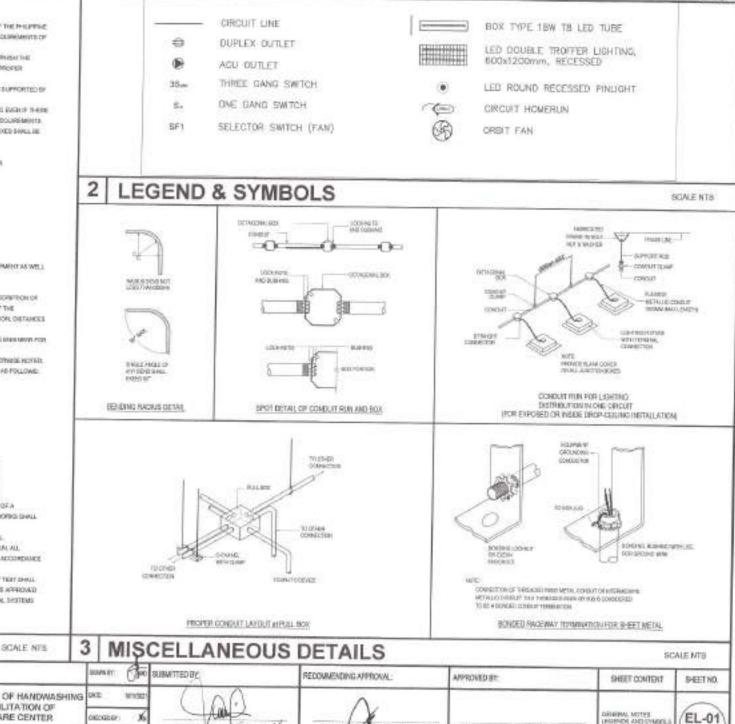
8. HEREN TO VERD HANDAL, PLIANSAGI AND FINE PROTECTION DRAWARDS FOR MITTINGE AND LOCATIONS OF SOLIMMENT AS WELL AN THEN CONTROL SOOLENCES AS ARRESPECTIVE AND DR. IN DRIVE LINES THEIR RESPECTIVE RECTORS.

- 10 ALL MATERIALS TO BE USED SHILL BE OF THE BEST GUALITY ... MANE NEW AS IPTERFEEL
- 11. THE DRAWINGS WID SPECIFICATIONS ARE INTERED TO PRETENT GENERAL LAYOUR AND MICH. OUT, NEIDESCRIPTION OF THE PROJECT BUT DO NOT NECESSARBLY INDICATE/CRACKIRED ACTUAL LODATIONS. LENG. AND DISTANCES OF THE DOURMENT, THE CONTRACTOR IS HORSEY REQUIRED TO SAME SUCH ADJUSTMENT AT THE JOBSTY ALLOCATION OSTAINES. AND LEVELS ARE CONFERED BY ACTURE PELID CONSTRUME.
- 18. ANY CREATENNEY RETINEES THE FLURA AND SPECIFICATIONS SHILL BE BROLIDHT TO THE ATTENTION OF THE MAILMANN FOR ISAN HCATION DOG \$104.
- TE ALL LICHTER AND CONVENENCE OUTLET CARCUTE SHALL BE 35 59. MIN. THREE CONTRY WHEN UNLESS CONTRINUES HOTED. MOMUNISSES OF WHE SHALL BE 35.50. MM. COPPER WHE, NO WHE'S AND CARLES SHALL BE TTO OF CODED AS FOLLOWS:



GENERAL NOTES

- 14. BORES WHE GUTTERS, ENCLOSURE BHALL BE PARROATED FROM STREE, WITH THEOREM AL POLICING. WAXBELM WEITH 19P THE WEET SUSPACE STEEL
 - UP TO RECEIPTING THE ATMAN BA TR PARVED WITH METAL PRIMER EPOXY AND TOPODAT OVER YES IN HAVE NOT NOT OVER JET IN GA 14 PRINTED WITH RETAL PRIMER EPORY AND TORCOLD CASE 457.30 HALLOUT ANY OVER THE AM GA 12 RENTED WITH HETAL PRIMER DROP AND TOPODAY CHEVY YES MM GATE INSPECTATION WITH WITH PRIMER DROKE AND TORODAT
- 15. ALL REPORTS HORSE HEREIN HALL IN EXECUTED IN EXPERIMENTAL WHERE THE DIRECT REPORTS OF A FLIL-1946 LICENSED ELECTRICAL. ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTINUCTOR BY AGAD, WORKS SHALL IE HEADLY PLACED, BRITHRELY FACTORED AND PROPERLY PRODUCT
- 15. TYPE OF SERVICE ENTRANCE SHILL BE SHELL SHOULD HAVE MUSIFIED SERVICE, 101-1011, 101-100, 100-1000
- 17. CONDURG IN NO GREE BRIEL THERE BE RORE THAN THE ROUTINEEUS OF FOUR QUARTER RENDS IN MY ONE RUN, ALL CONDUIT SDIGO SHALL HE HELD BACK BY USING HYDRAKLIG BENDERS, WHARLIN RENDERS TADAUS AND TABLES AND ADDRESS OF TO THE GOOD REQUIREMENTS.
- 18. UPON COMPLETION OF ELECTRICAL EXMITRACTION MORE, INSULATION RESIDENCES THEY AND PUNCTIONAL 1Y THAT SHALL AS PROFORMED BY THE CONTINUED REQUIRED OF THE METALLICIDE TO BE REPORTED IN DRIVALS ON FORMS APPROVED. BY THE GENERAL DRIVENESS DEPARTMENT REPRESENTATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SECTION. THEIL NOT HE WORK THAN IS DRIVE. COMMUNICATION ORCUMENTO INCOLUTINGS ANALINOT EXCELLINET EXCELLINET



PROJECT TITLE : Republika ng Pilipinas PROPOSED CONSTRUCTION OF HANDWASHING OKE Lungsod ng Quezon FACILITY AND REHABILITATION OF CENTERVILLE DAY CARE CENTER CITY ENGINEERING DEPARTMENT

LOCATION: PAGON

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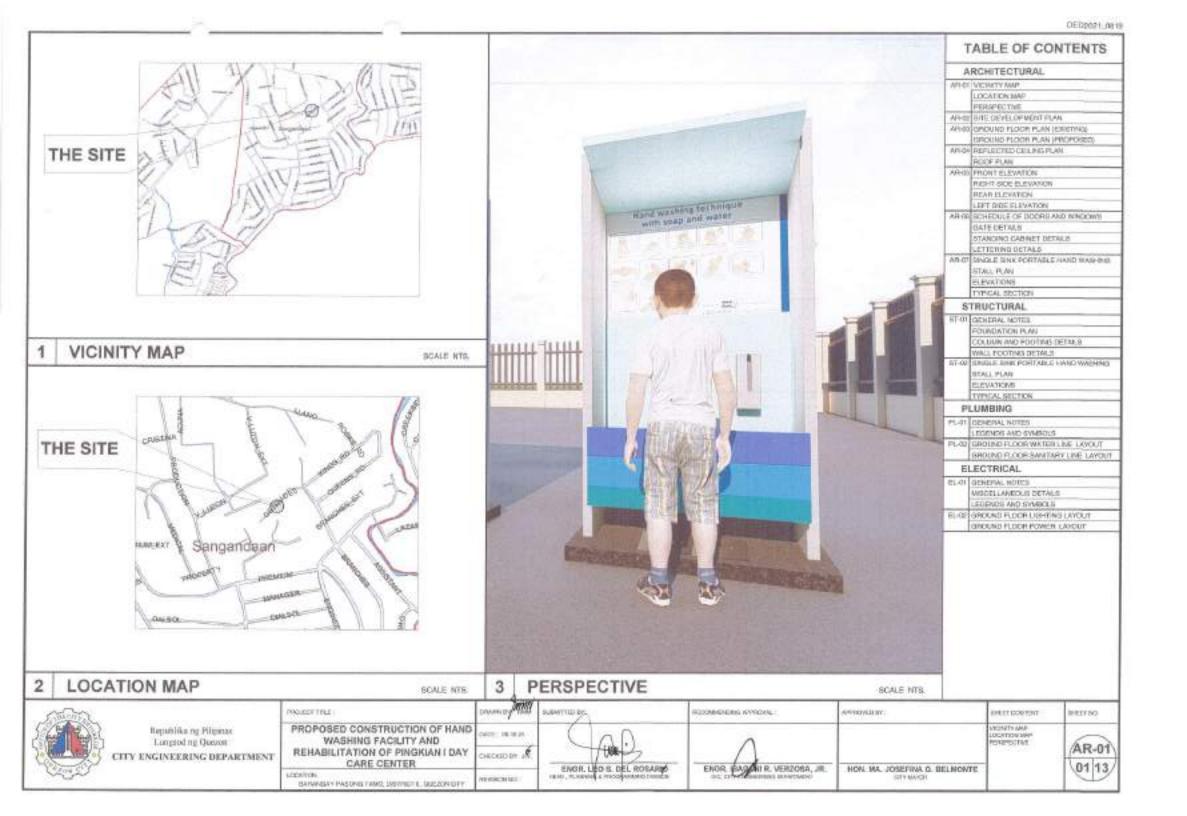
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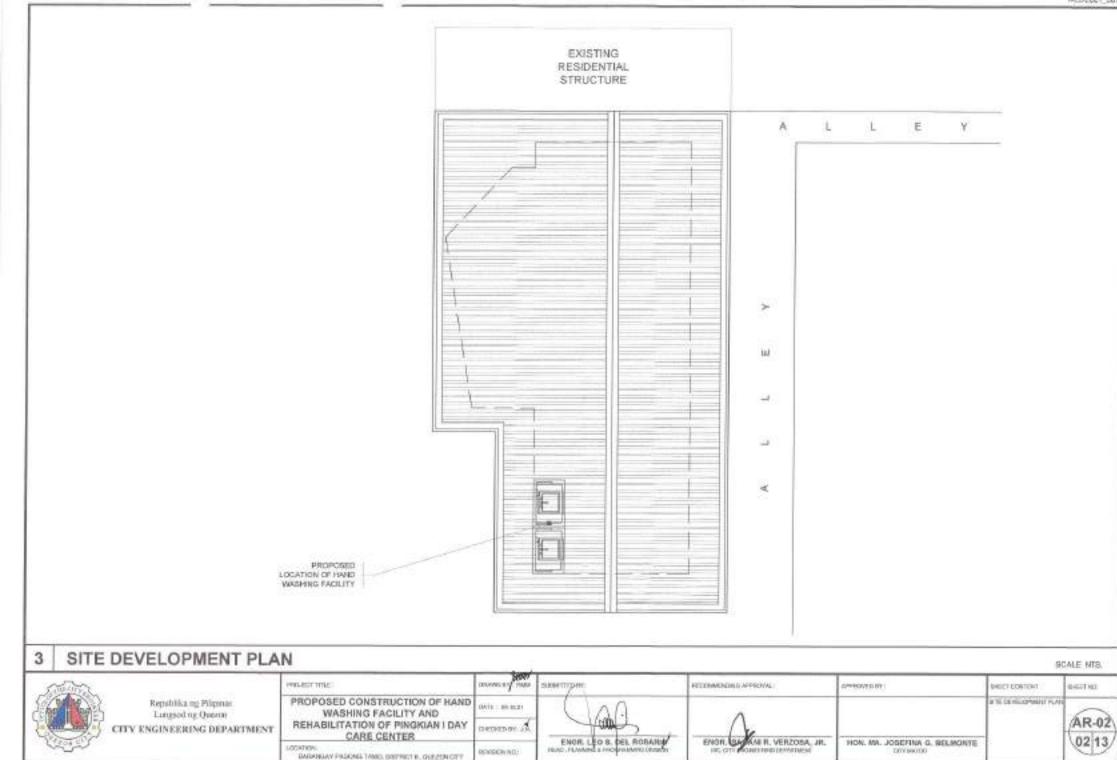
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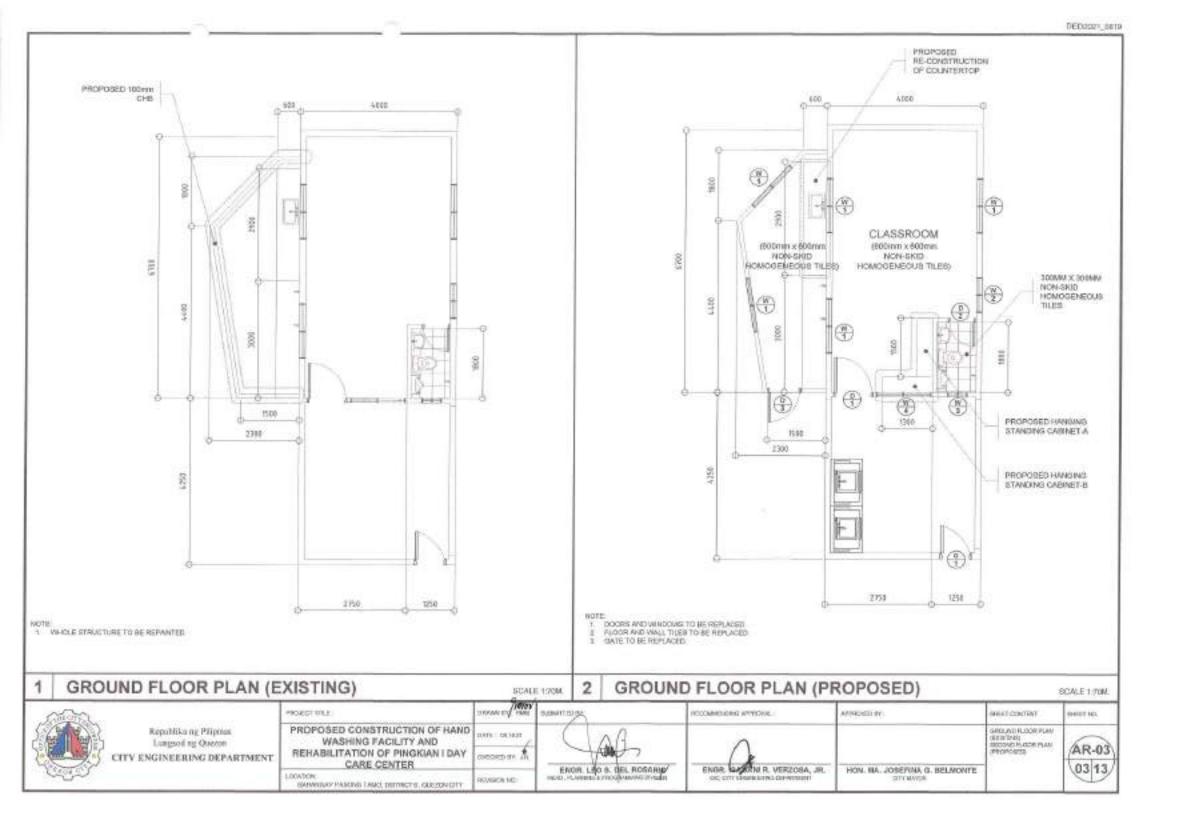
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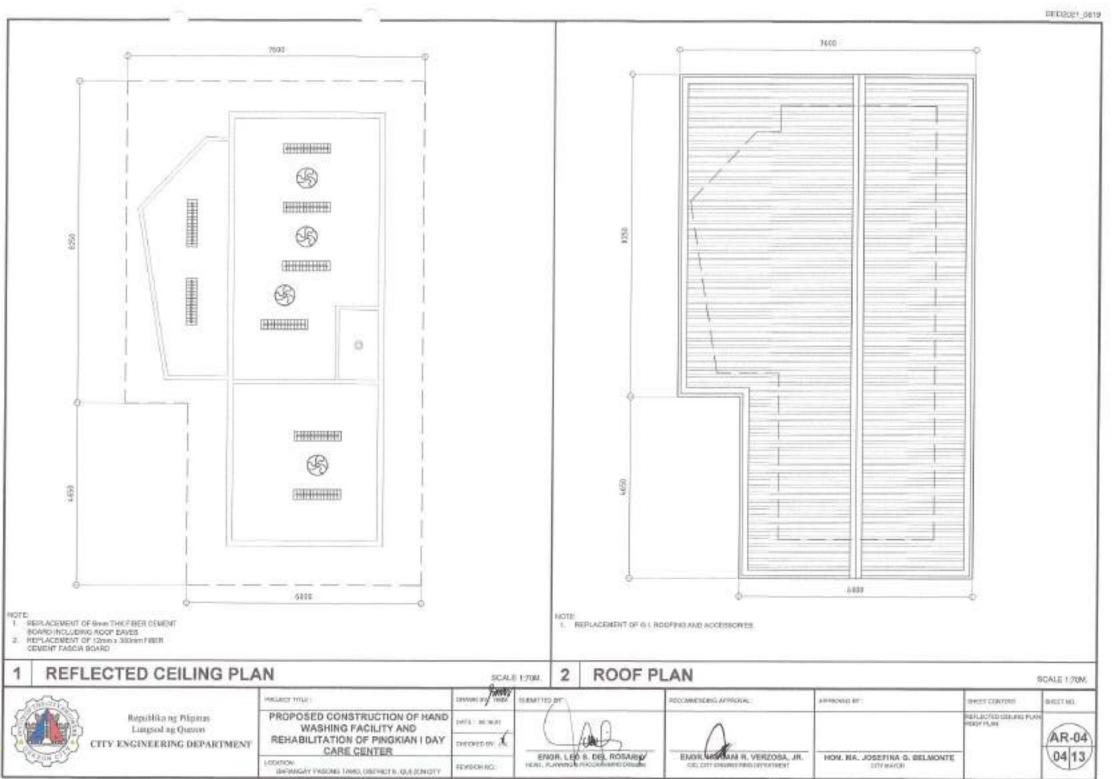
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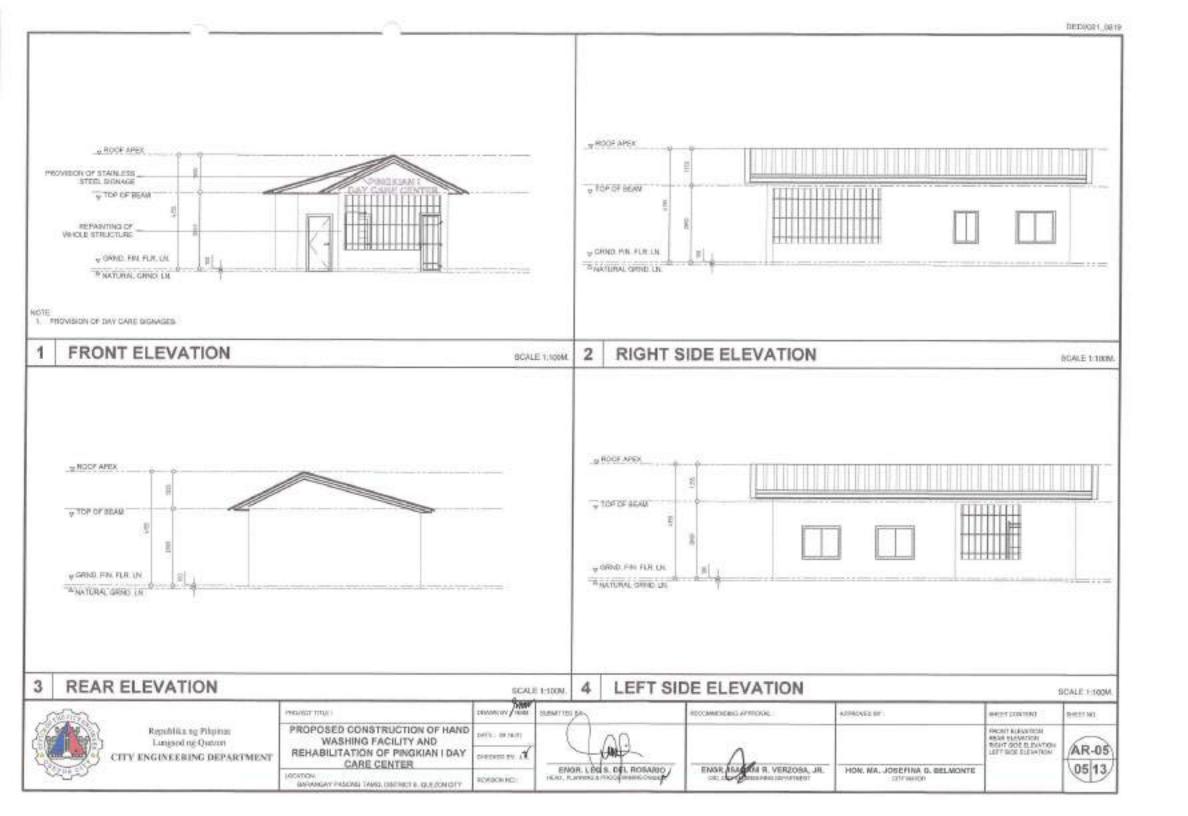


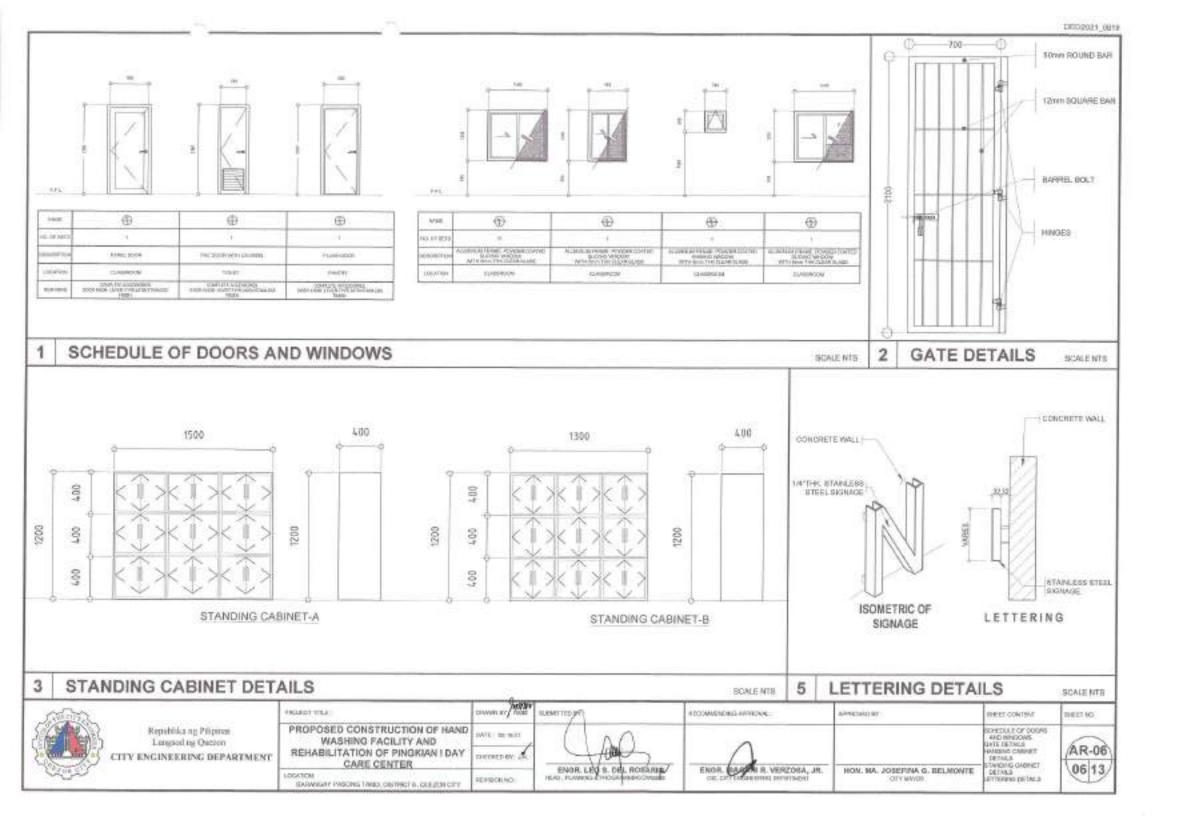


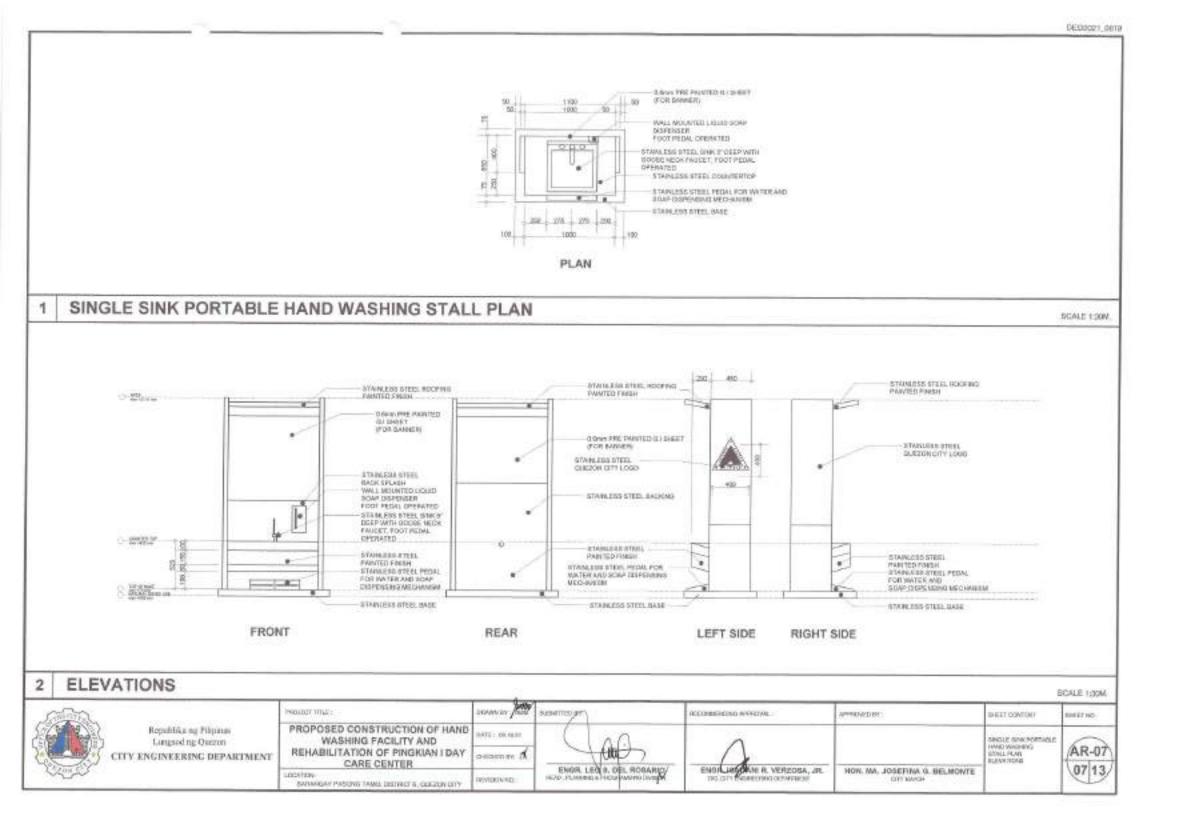


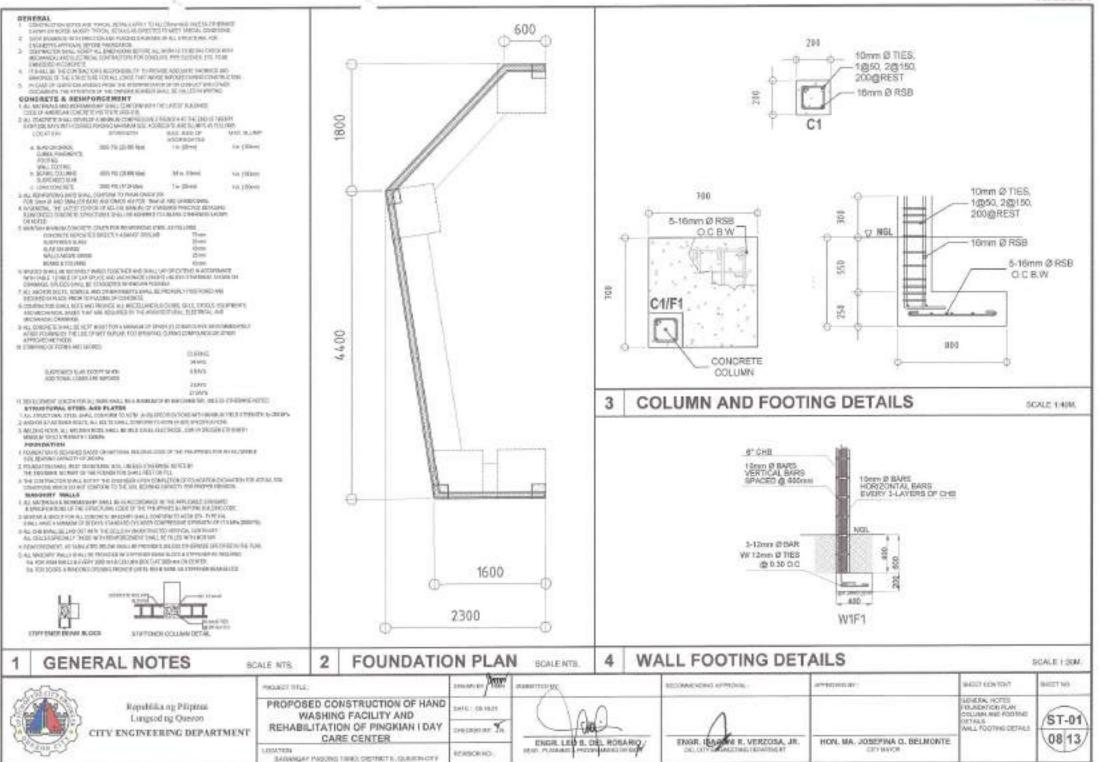
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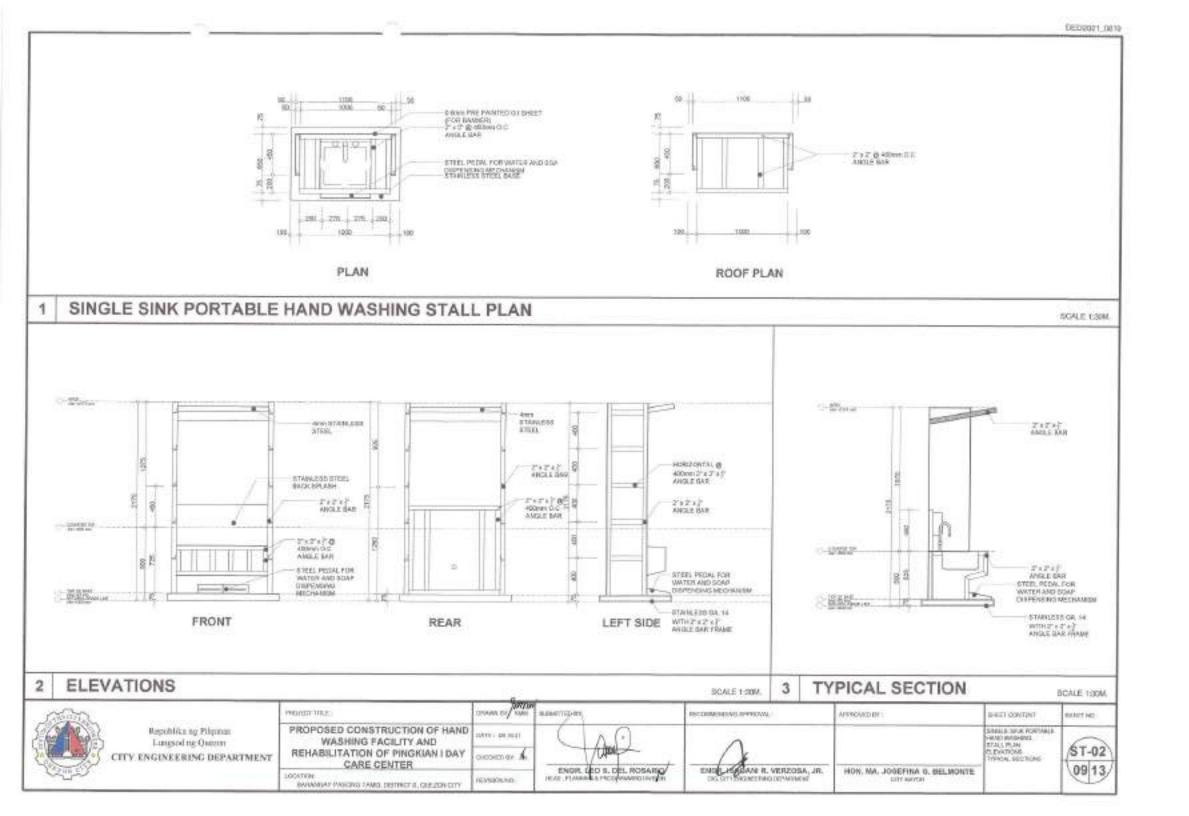
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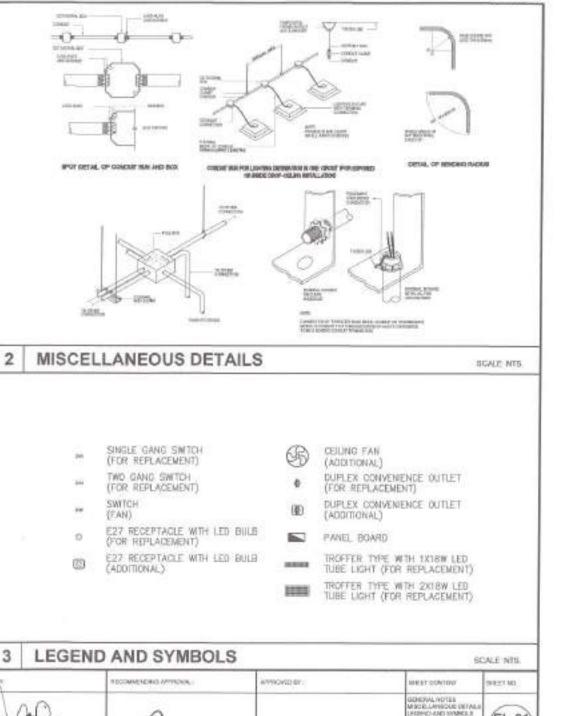
- 1. WLL ELECTRICAL WORKS SHALL BE DORE IN ADDITIONICE WITH THE PROVIDIONS OF THE LATEST FURTHORIDE THE PHILE FURTHORIDE CODE. THE LAWS AND ORDINANCES OF THE LOCAL DOCE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL PERMER AND TELEPHONE LITELITY COMPANY
- 1 THE CONTRACTOR SHALL DECLINE ALL PERMITS AND FAY ALL PEES REQUIRED FOR THE NORM AND SHALL RUSSIAN THE OWNER THROUGH THE ENGINEERS. FINAL CENTREMING IN ELECTRICAL INSPECTION AND APPROVAL PROM PROPER DOVERSION TAUTION THES FOR COMPLETION OF and pick
- 1. ALL EVECTORS REAKCH DIVISION BRAIL BE FOR CONSISTENTIAL STORY AND AND UNDER LODGED BY CONSISTENTIAL STORY AND UNDER LODGED BY CONSISTENT AND UN EVERY THE MILINETERS.
- 4. PAUL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER RECESSARY TO FACULTETE WHE PAUL HIS EVEN IF THESE ARE NOT INDICATED ON THE PLANE. SIZING OF ALL PLALECKES BHAIL BE DOMPUTED INVESTIGATIVE TOTE REQUIREMENTS, SUBMIT 35:0P DRAWINGS TO THE ENGINEER FOR APPROVAL PROR TO FADR CATION OF PALLEOXES WALL BE APPRICATED BY THE REDITECT ENGINEER AND MUST IN REPLECTED ON THE WEARAUT PLAN.
- 8 ALL POWER OUTLETS, AND SWITCHES SHALL BE ORCANDING TYPE WITH PARALLEL SLOTE FOR 250 V.
- # THOWDR OROUND FAILT CURRENT INTERVITIER DIRCHT BREAKER FOR LOADS BINRED "GFOR DR HAN
- T. ALL BETALLO COMPUTE CATHETE AND ECAPIERT SHALL BE DEDECTA VILLENAUED AND DOMODIO
- E. LOS SIRE OF HERMISE MOTED, MOUNTING HERDIT FOR WALL WOUNTED DOVIDES SHALL BE AS FOLLOWER

REEEPTACLE OUTLET - SOCIEM ANT, ISSNER ARCYT MORNING COUNTER. TELEPHENE OUTLET - THE MM APP CATVOUTLET - 300 MM KFF LIGHTING SWITCH + 1400 BHI AGE IWNELBOWID- 1000 MM WFF

- 8. REFER TO MICHANIESC, PLUMBING ANT FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EDUPMENT AS WELL AS THESE CONTROL. SEGUENCES AS SPECIFIED AND OR SHOWN MILLIN THEIR RELIPECTIVE ADCTIONS.
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- REQUEED TO MAKE BLICH ADJUSTMENT AT THE IDENTE AS LOCATION, DISTANCES AND (EVIL) ARE CONTRINED BY ACTUAL RELD DOMOTEXES. LE ARE DISCREPANCY RETAINED THE FLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFECATION DECKNON
- TO ALL DONTING AND COMMUNICS CUTLAT DISCUTS SHALL BE 18 KG. WE THINK I COPPER WAR UNLESS OTHERWISE NOTED INVINUESCUTS OF WHET SHALL BE DE HEL HER COPPER WHEE ALL WHEE AND CARLER SHALL WE COLOR CODED AS FOLLOWS.

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	1/WE 2 - VELLOW INFLUTION - WHITE	
	GROWD-OREEN	
14	HORES, WHEE, DUTTINGS, ENCLOSURE AND	LEAR FRANCATED PROVIDED WITH THEORESIS AS FOLLOWS
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- 16 TYPE OF SERVICE ENTERVICE SHALL BE SINGLE PHASE. TWO AVRE PLUE GROUND., 60 HERTZ 200V AC INCIMINAL
- IT. CONDUTTS IN NO COUR SHALL THERE NOW, THAN THE EQUIVALENT OF FOUR QUARTER SENDED ANY ONE RUN ALL CONDUCT BEINDS SHALL BE FELO MADE BY USING HYDRAULIC HENDERS, IRHINGHA RENDERS, RUNT OF THACODOMOUS TO THE DOOR SECURICIES.
- 18. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, WASACTION REPORTONICE TEST AND PURCHCONAUTY TEST AND BY CONSTRUCTION OF PLACEMENT OF PERCENCENCY OF THE DOMTRACTOR RELIABLE OF THE INSTALLATION TO BE REPORTED IS DRIVED BY THE OVERON OF THE OVERON CITY ENGINEERING. DEPARTMENT REPRESENTIVE. THE GROUND RESERTANCE FOR ELECTRICAL SYSTEME ANAL. NOT BE MORE THAN 5 CHAR. SOMMUNICATION GROUNDING REERLANCE SHALL NOT EXCEED 2 ONHER





Republika ng Pilipinas

GENERAL NOTES

1

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G DEPARTMENT	REHABILITATION OF PINGRIAN I DAY CARE CENTER
	ICENTERS.

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PROPOSED CONSTRUCTION OF HAND

BARANSAY PASCINE TRIAD, DETRICT & CARDON CITY

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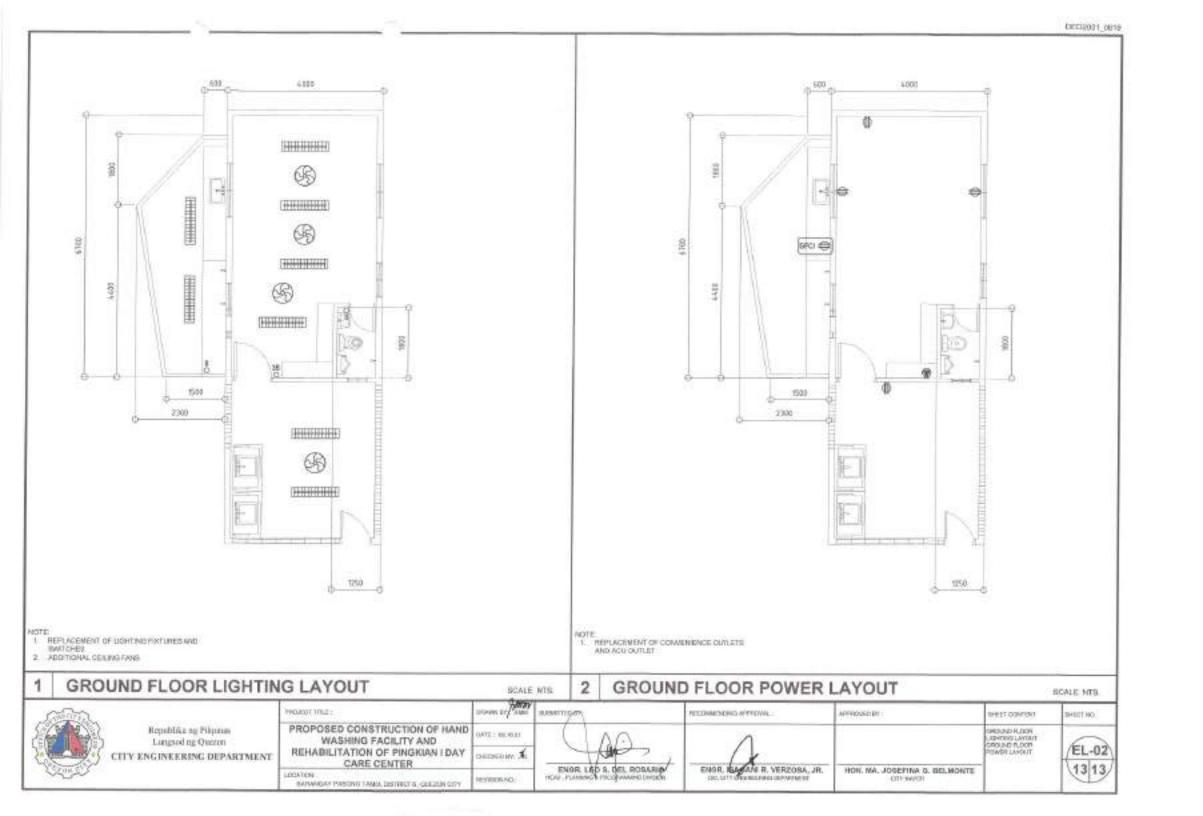
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R. VERZOBA, JR.	HON. NA. JOSEFINA G. BELMONTE

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18 All hase bibbs shall be 19 min 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 discrepencies found in plan shall be notified to the same person.

SARANGAY PARCHELEAMO, DETHICT IS, CLEVEN CITY

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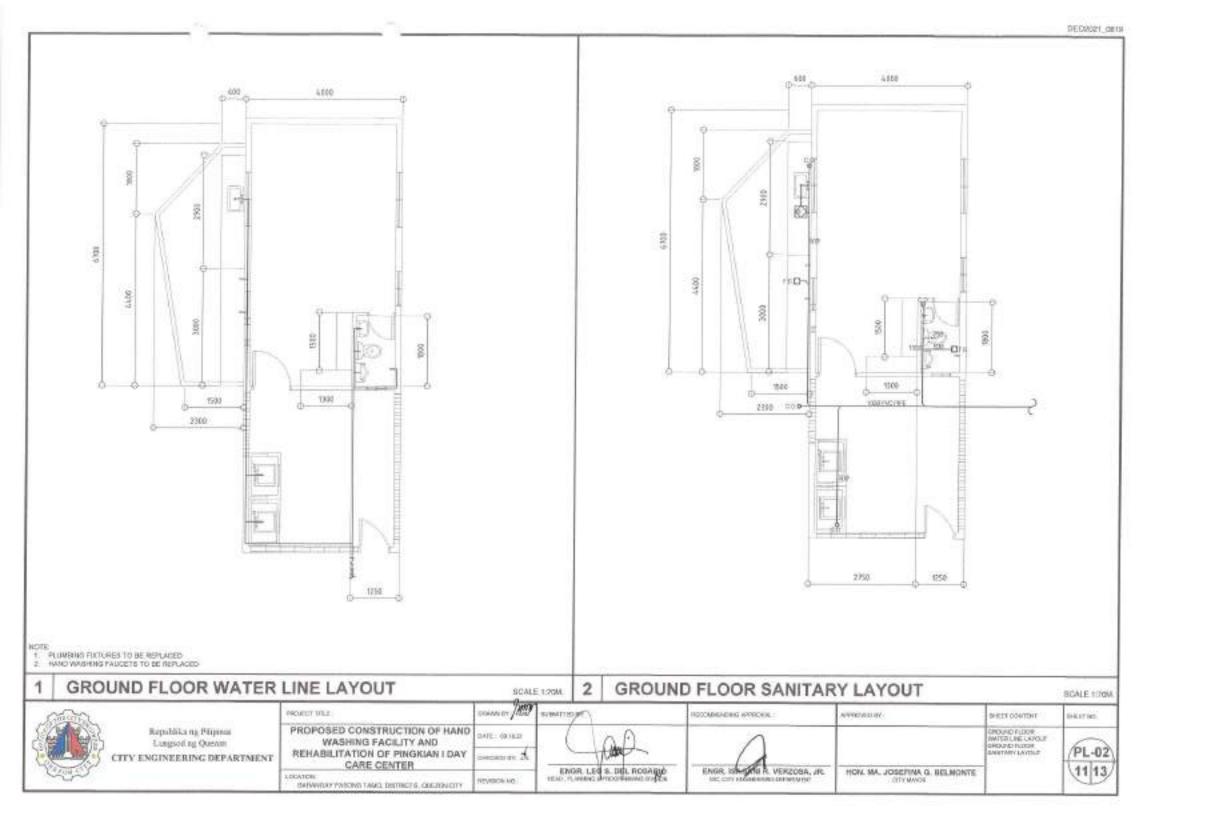
FD	FLOOR DRAIN ROOF DRAIN	1
SHO	SHOWER	
WC	WATER CLOBET	
LAV	LAVATORY	- 1
URI	URINAL	
KS	KITCHEN SINK	
BD	BUILDING DRAIN	
DD	DECK DRAIN	
000	CEILING CLEANOUT	
FCO	FLOOR/GROUND CLEANOUT	
DS	DOWNSPOUT	
mm	millimeter	-
ø	mm DIAMETER	
SHD	SHOWER DRAIN	- 1
CB	CATCH BASIN	- 1
MH	MANHOLE	1
-	DIRECTION OF FLOW	
K3	GREASE TRAP	ł

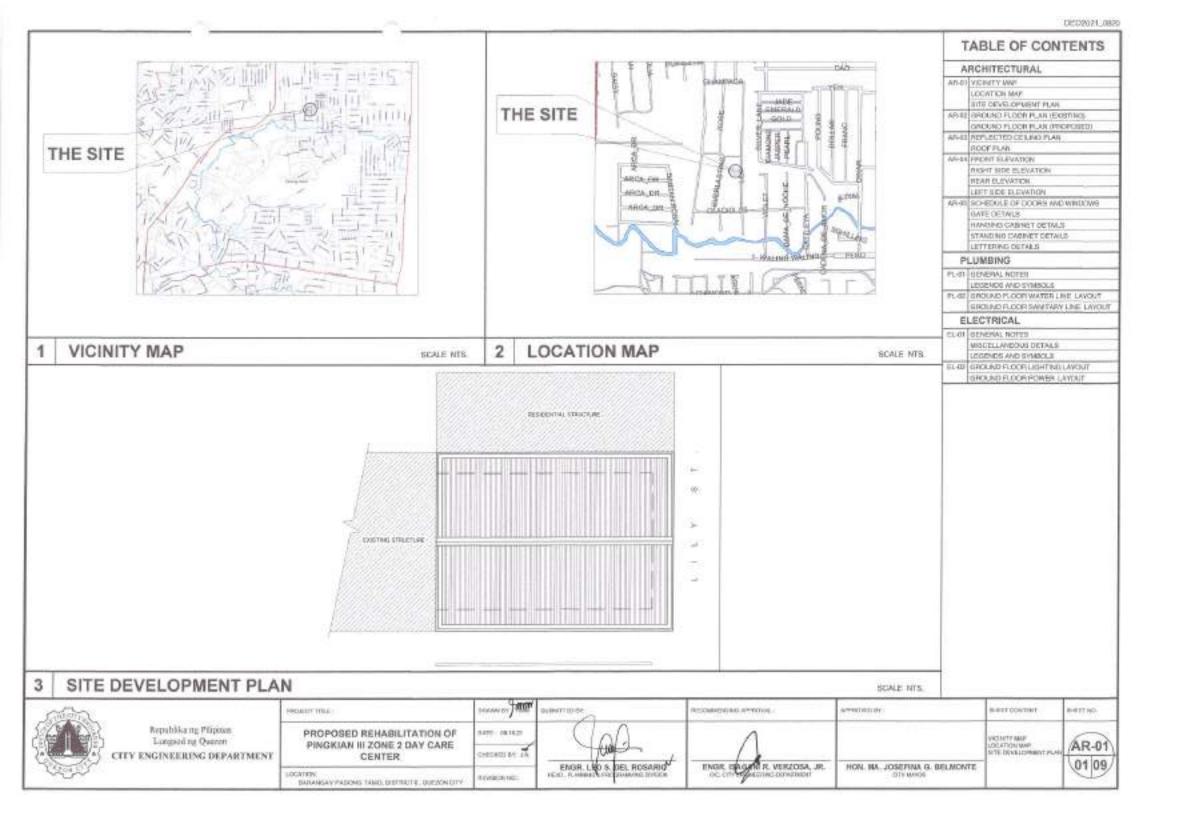
+	UNION PRIENT
++	CHECK WILVE
10	HUNLOING BEWERI
1911	BURLINNG DRAIN
PL	WASTE LINE
NUTUR	AREA DRAIN / CATCH BASIN
70	FLOOR DRAIN
18	DAVETER
	WASTE LINE
	WATER LINE
- 0.0	GATEVALVE
00-	DECK DRAM
00	CLEANOUT
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in .	MUUMETER
sty.	GATEVALVE
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ider :	DAUATORY
184	MANHOLE
Mi .	HOSE BIBB
-	STORM DRAIN LINE
	VENTUNE
946	VENT ABOVE CELUNG
58/902	CONCRETE FIPE / REINF, CONC. PIPE
111	VENT THRUROOF
20	DIRECTION OF FLOW / ILLOPE

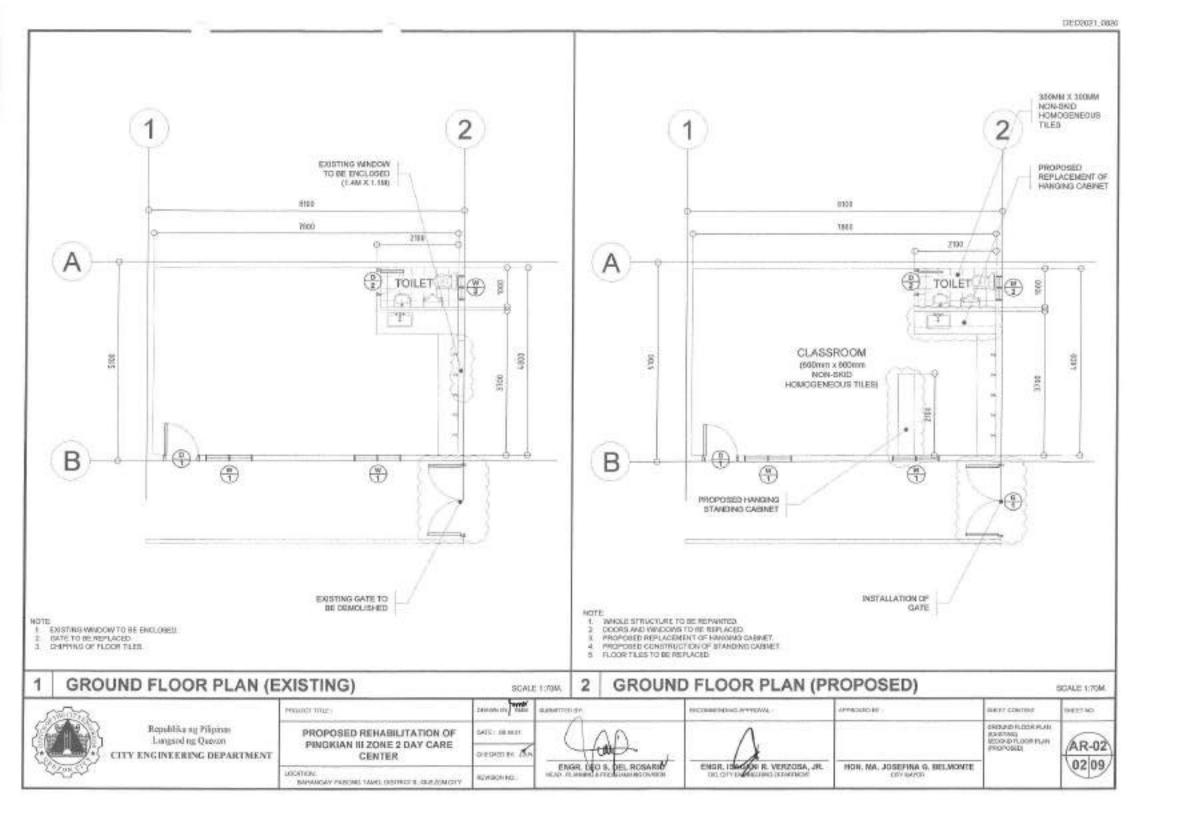
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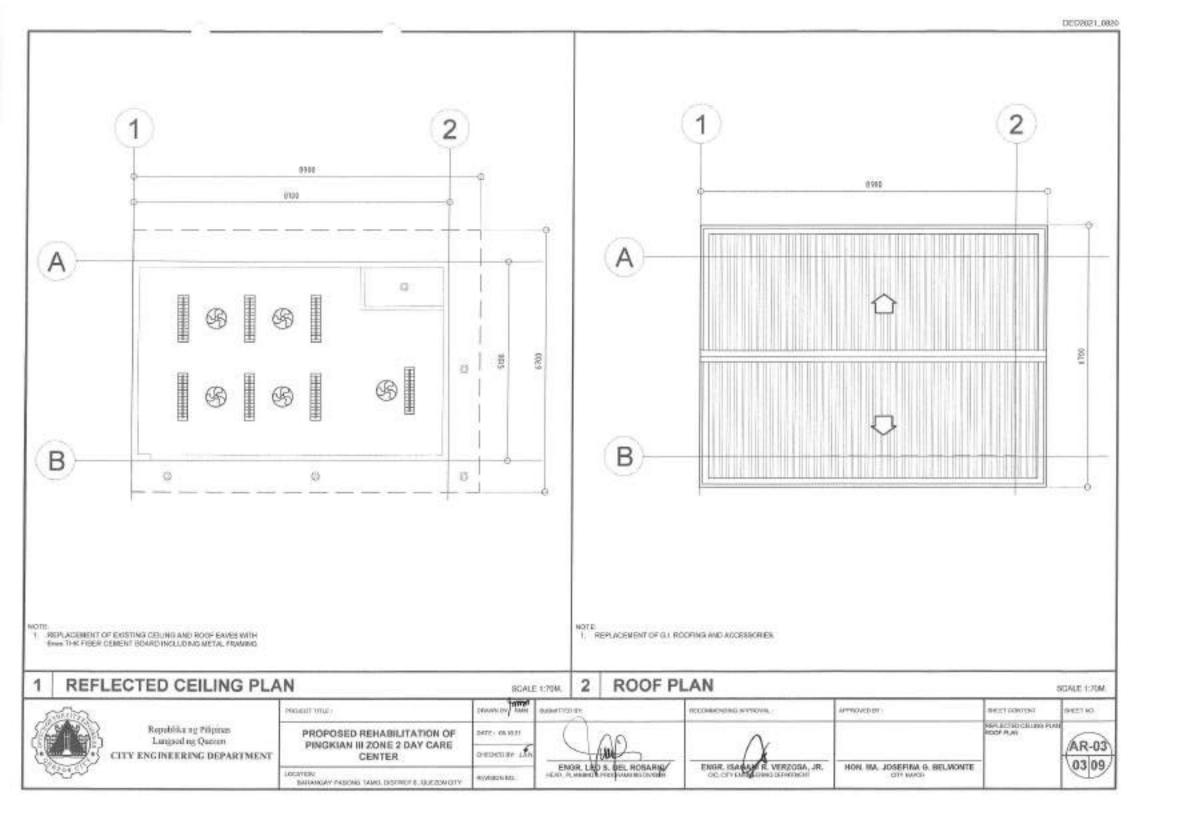
1 GENERAL NOTES BEALE NTS.							2	LEGEND	LEGEND AND SYMBOLS				
T.	3 6 3		PROBIT TITLE		Mar	19.80911100	(Internet		NISCOMMONDER APPEDIAL	APPROVED BY	INCOMPANY	SHEED NO.	
		Bapidilika ng Pilipinas Lingsod ng Querun CITY ENG INEERING DEPARTMENT	PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF PINGKIAN I DAY	11/01 191	1007		()	10	-		CENERAL NOTES LECEND AND PRODUCT	0	
	in listy a			DECORDER M.		1.444		麻フ				/PL-01	
		CARE CENTER	HEVISCO !!		ENG HELD, PL	R LIN	S. DEL ROSARIO	ENGR. ISAGAR R. VERZOBA, JR.	HON. MA. JOSEPHNA G. BELMONTE		10 13		

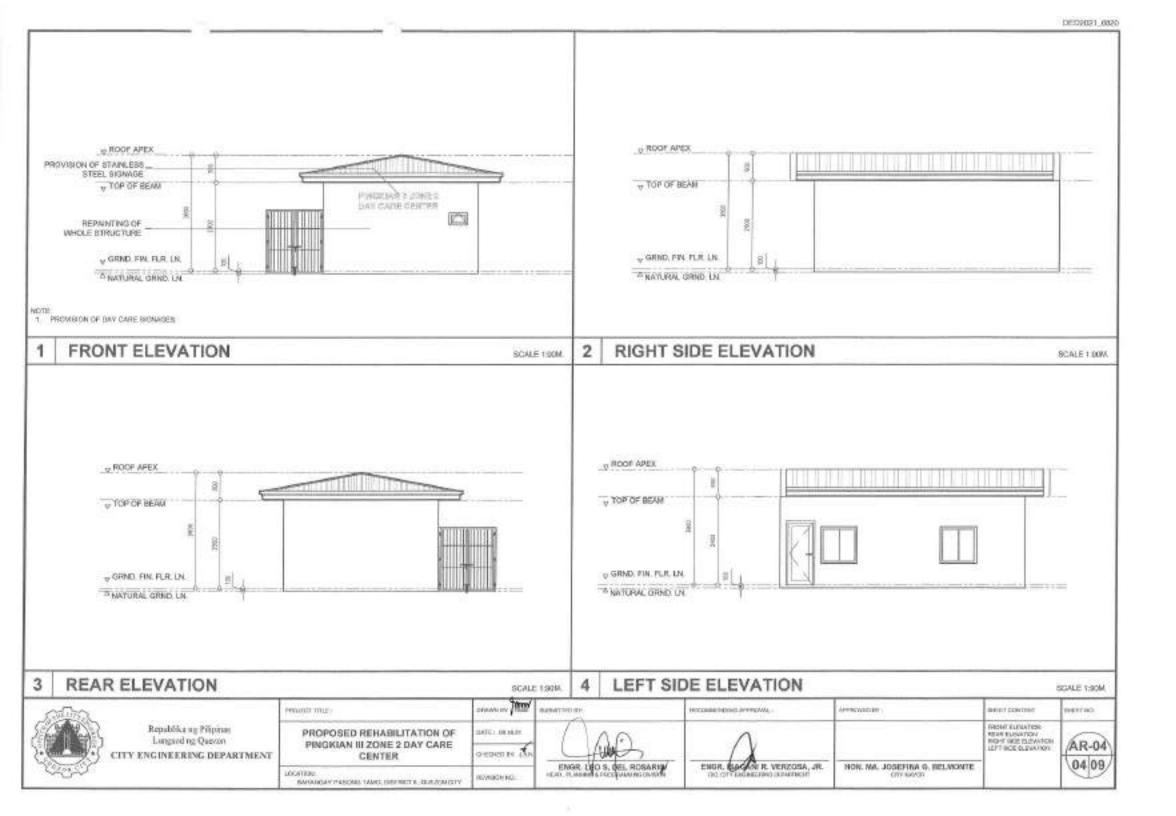
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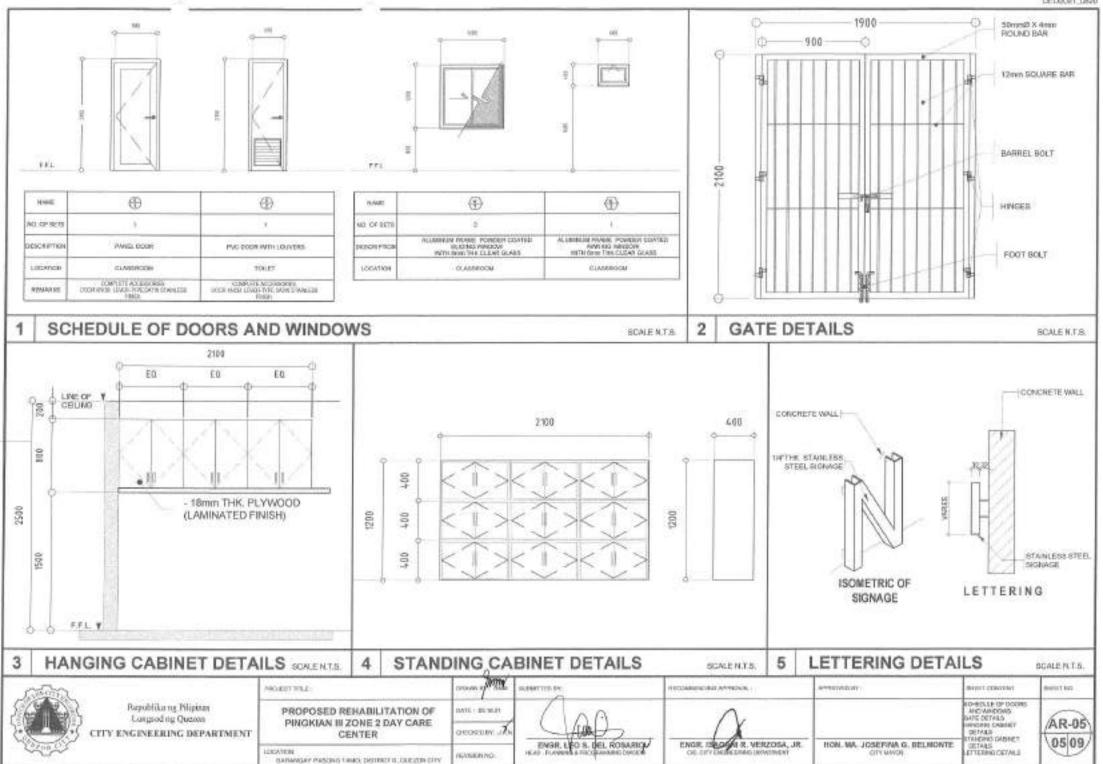








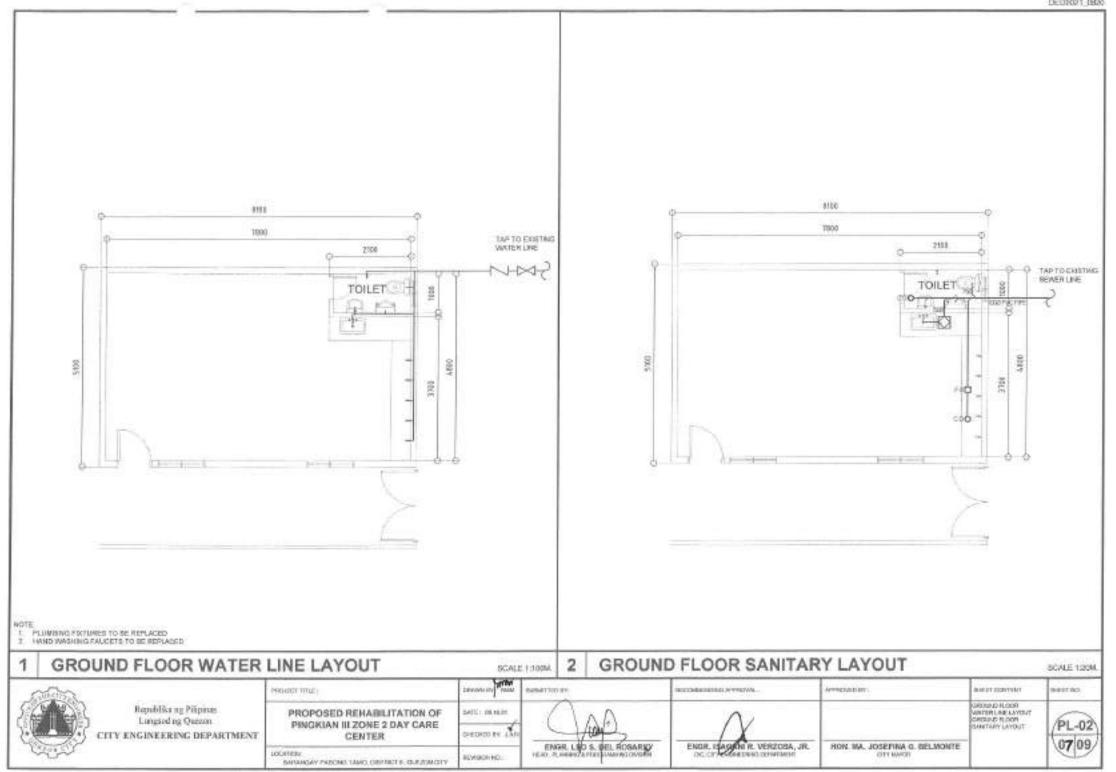




DEDGORT_0820

CITY ENGINEERING DEPARTMENT	PROPOSED REHABILITATION OF PINGKIAN III ZONE 2 DAY CARE CENTER		GR. LOO S. DEL ROSARID	ENDR. ISLANI R. VERZOSA, JR. DC. CPVENSAETS KOLENARSHIT		EFINA O. BELMONTE	PL-01 06 09
(The Piteines		pendatu in Press		INCOMPOSAL AVIANA	APPROVIDEN	BASET HONTONY	94627.98
1 GENERAL NOTES	1	SCALE NUS	2 LEGEND	AND SYMBOLS			SCALE NTS.
 5 Minimum alope for horizontal sever lines shall be 1% and for 6 Proposed plumbing utilities shall conform with the actual local 7 Connector of fatures to pipes and fittings shall be according 8 All floor drams shall be vented individually. 9 All clean out females shall be fush-mounted to wall and shall lines on grade and service areas not subject to traffic. 10 All underground G.I. pipes in direct contact with soil shall be jute cleft fromghty soaked in ter or apphalt. 11 Provide vent stock and vent pipe thru roof of cast iron service 12 All cast iron pipes shall be provided with proper insulation with 15 All individual branches to filtures or grapp of fidures and/or ventcal pipe extensions of dimensions as shown. H = 450 mm for 19 mm Ø and iarger H = 300 mm for 12 mm Ø and smallar. 16 All hose bibbs shall be 19 mm Ø (SM* Ø) unless otherwase in 17 linet pipe of septic tark it 50 mm higher than the siphon pip. 18 All plumbing works and manner of construction shell be under Master Plumber or Pagisteved Sanitary Engineer. Any discreption of a setter of a pagisteved Sanitary Engineer. Any discreption of a setter of a setter of a setter of a setter of a set of a setter of a se	on, depth and invert elevation of all existing pipesium is manufactorer's specifications. He provided with poliched cover caps. Do not install the provided with two (2) coats of protective fair covering a rweight as required. for water distribution lines shall be Schedule 40 U.S. ere exposed. aujoments shall be provided with eir chambers or say dicated. e which is 30 mm higher than the outlet pipe in the direct supervision of an able and duty licensed class found in plan shall be notified to the same perso	vor clean cuts except at and wrapped with sped			00 50 11 40/08 70 9 	CHECK VALVE BUILDING SEWER BUILDING SEWER BUILDING DEANN WASTE LINE AREA CRUNT CATCH BASIN FLOOR DEANN DIAMETER WASTE LINE GATE VALVE GATE VALVE CLEARCOUT FPE DOWN FPE DF MILLIMETER GATE VALVE AREA DRAIN/CATCH BASIN WATER CLOSET LAWYOONY MANEXCE FROSE BIBB STORM DRAIN LIVE VENT UNE WINT ABOVE CELING CONCOUT FROM DRAIN LIVE VENT THRUPEOF DIRECTION OF PLOW / SLOPE	
 All plumbing works and materials indicated herein shall be consistenal Plumbing Code, the rules and legislations of local authority companies and the provisions of the land developer when The plumbing layout is only diagrammatic; pipes, cleanouts a possible. It is not intended to show the actual dimension of the and fotunes shall be installed as and where indicated. Any roles offer trades. The plumbing contractor shall verify all existing utilities at the 4 Pipes shall not be embedded in structural members unless of 	prilles concerned, the rules and ingulations of local and where applicable and check volves shall be concessied as much as pipes and fintures in the drawing but all the pipes atten will require proper association in relation with site and shell coordinate the work with other trades.		L FIXTUR	ES AND OTHER LEGEND			





٤.	ALL ELECTRICAL WORKDOWALL BE COKE IN ADDOID/DVICE WITH THE PROVIDEND OF THE LATEDT EDITION OF THE PHOLIPPINE BLECTRICAL CODE.
	THE LAWE AND DRIVEN WITHE LOCAL DODE ENFORCEDS AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL FORER AND TELEPHONE
	LTELTY COMPANY

- 1 THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL PEEK RESID FED FOR THE WORK AND SHALL PURINGH THE CONNER THROUGH THE ENGINEERS. FINAL CORT EXAMINE OF ELECTRICAL INSPECTION AND APPROVAL PROMIPHORE CONFIGNMENT AUTHORITIES FOR COMPLETION OF MORE N
- 1. ALL EMERODED SPANCH CREDITE IN ALL BE INVOCIDENTLY AND FOR EXPOSITION MATCH MALL ME HER EXPECTED BY SCARALY ELABORIT EVERY TO US NETERS
- 4 POLL BOXES SHALL SE PROVIDED BY THE CONTRACTOR WHENEVER RECEIVER TO FACILITIE WAS FULLING EVEN & THESE ARE NOT INDIGATED ON THE PLANE. BEING OF ALL POLICIOUS EVALUATE DOMPOTED BASES ON THE CODE REQUIREMENTS SUBJECT SHOP DOWNING TO THE ENGINEER FOR APPROVAL PRIOR TO PADRICATION COCATION OF PLALBOXED ENALL BE APPROVED BY THE ARCHITECT/ENGINEER AND NUET HE REPLECTED ON THE 'AS-BUILT' PLAN.
- 5. ALL POWER OWTLETH, AND DWITCHES SHALL BE DROUNDING TYPE WITH PARALLOL BLOTS FOR 200 V
- 6. PROVIDE CROUND HAVE T CONTENT ALTERIAUTER ORCAT BROAKER FOR LOADS INVESTO FOR THE FLAK.
- 1. ALL INSTALLIC COMPLETE CARRIETE AND EQUARMENT SHALL BE PROPERLY GROUNDED AND BONDED.
- E. UNLERE OF HERWISE MOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

RECEPTACLE OUTLICY - SICIAM APP, IDDRIE ABOVE WORKING COUNTER. TELEPHENE OUTLET - 308 MM AFF CATVOUTLET - 300 MM AFF. UCHTING ENVITCH - 1400 IBIL AFF PANELBOARD - 1600 MM APP

- # SEPER TO MECHANICAL PLINEING ANY FIRE PROTECTION DRAWING FOR RATINGS AND LOCATIONS OF EDUPMENT AS WELL AS THEIR CONTROL. REGIERCES AS KPECHED MID OF SHORN UMBER THEIR RESPECTIVE BECTIONS.
- 18. ALL MATERAMUS TO BE USED BHALL BE OF THE BEST DUALITY , BRAND ABWEAS SPECIFIED.
- 11. THE BRANNIE ARE SPECIFICATIONS AND INTENDED TO PRESENT GENERAL LAPOVT AND BROAD CATURE DESCRIPTION OF THE PROJECT BUT DO INT REDERLARLY INDEXCED/BED ACTUAL LOCATIONS, LEVEL AND DISTANCES OF THE EGAPMENT, THE CONTINUED IN HEREBY
- REQUISED TO WARE SUCH ADJUSTMENT AT THE JOBBITE AS LOCATION, DISTANCES AND LEVELS WE SCITEMED BY ACTUAL HELD CONDITIONS. 12. ANY DECREPANCY BETAKON THE PLANS AND EPECINGATIONS NAVEL BE SECURITY TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION 00049404
- 15. ALL LIGHTING AND CONVENIENCE OUTLEY DIRELIT'S SHALL BE 33 3G. VAL THANK & EXPANSION MARE LISE CONVENIENCE NOTES MINIMUM 125 OF

	WRE SHALL BE 23 NO. HER COFFER WERE ALL WREE AND CARLES	SHALL BE COLOR CODED AS FOLLOWS			2 MI	SCEL	LANEOUS DETAI	LS		5	CALE N	
	UNE (-HEP UNE 2 / VELLOW NEUTRAL (WHETE GROUND - WHEEH											
	14 NORES, WRRE, GUTTERIS, ENGLOSIDRE, SWILL BE FARMELYTED FREE WAXMENN WRITH OF THE WREET SUBFACE FIELD. INF TO INCLUSING 152-40 KM. GA 15 PAINTEE WITH	IN STREET, WITH THICKNEER AS FEELDWIN			08		GANG SWITCH EPLACEMENT)	0	DUPLEX CONVEN (FOR REPLACEM			
	OVER 487.30 MILIBUT NOT OVER 162 MM QA 12 PAINTED	WITH METAL FREMER EPORY AND TORODAT WITH METAL FREMER EPORY AND TORODAT WITH MITAL FREMER EPORY AND TURODAT			108		GANG SWITCH REPLACEMENT)	ен» Ф	GROUND FAULT (FOR REPLACEM	and the second second second second	UPTER	
	III. ALL ELECTRICAL WORKE HOTEN GNALL BE EXECUTED BY EXPERIEN ELECTRICAL INCOMMUNICANE A DUALY ACCREDITED ELECTRICAL COM FRATERIC AND PROPERTY.	CED MEN UNDER THE DIRECT SUPERVISION OF A FULL-TIME			08	SWITCH (FAN)			AIRCON OUTLET (FOR REPLACEM	ENT)		
FRIENED 16. TYPE OF SERVICE ENTRANCE ENGLI BE REVELE-PHASE. THROWINE FLUE GROUND, REVERTZ, 2007 AC ROBBIN.					ø		ECEPTACLE WITH LED BULB REPLACEMENT)	1	PANEL BOARD	JARD		
17. CONSULTS IN NO CASE SHALL THERE HE MORE THREE HOUSE THREE HOUSEART OF YOUR GUARTER BENDE IN ANY CHE RURE ALL CONDUCT BENDE THRUE HE RELD MADE IN USING HYDREVILE DENDERS, INHIBUDE HENDING RECIDENCE THE IN ACCORDINGS TO THE CODE RECIDENCE INTO					B	CEILING (ADDIT	3 FAN IONAL)	-	TROFFER TYPE I TUBE LIGHT (FO			
	IN UPON COMPLETION OF ELECTRICAL CONSTRUCTION INCREMINSULATION THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORT OSPARTMENT REPRESENTATIVE. THE OROUND REARDANCE FOR EL OROUND RESISTANCE SHALL NOT EXCEED 2 CHINE.	CO IN DETAILS ON FORMD APPROVED BY THE BIEZON CITY I	DIVERSION OF THE OWNER OWN									
1	GENERAL NOTES		SCALE	NIS.	3 LE	GEND	AND SYMBOLS			B	CALE NT	
3		mentti urte i	SHAMIN PIN	sistemp	1) 		HETTERATION APPROVAL.	Arrestato ker		MART CONTUR	Part No.	
Sel la	CTTY ENGINEERING DEPARTMENT	PROPOSED REHABILITATION OF PINGKIAN III ZONE 2 DAY CARE CENTER	SATE: CANADA D-EDRED FR JAN		1000	5.	-N			OTHERAL NOTEE MIRCELLAVECIUE DEFALIE LINDING AND RYMHOLE	/EL-	
5	xe.x	LICENTRY SERVICE HIS DESIGN A SAME	ROWING NO.		R. LENG S. DEL R		ENOR. ISROAM VERZOSA, JR ING OTVOLVEZIMACEMMINE	HON. NA. J	COSEFINA G. BELMONTE		00	

LPP

CKT

1

2

3

4 SPARE

COMPUTATION :

T + 15.85 AMP.

+0.2017 +0.2017)

LOCATION: GROUND FLOOR

LIGHTING OUTLET

CONVENIENCE OUTLET

I DRP ARCONDERING UNIT

LUAD DESCRIPTEN

27.09

\$38

230

2.50

220

NA-

1050 8.45

540

2760

A0.81

2.35

12:00

OVER CURRENT PROTECTION

AN 32mm (J PVC PIPE

\$250 34.00

MAN PERDER:

.61

20

30

:30

30

MOUNTING: MERMIL RECEIPED WITH GRAFT POWDERED.

612E 0*

GROOMD REE

WPER:

-3.5mm¹ The infoldance with

USE : 46AT, 2P, 230V MOULDED CASE CIRCUIT BREAKER IN NEMA 1

Dorrent FUE CREALINE WAY Deven PHILE COPPLE WAY 2 Dorrent TW CREALINE WAY D. Secon THEW COPPLE WAY

Cannit

2.0mm

USE 12 - 8.0mm* THHN & 1-6.5mm* TW GROUND WIRE

CONTED PINISH WITH MLR. TO-TERMINIAL BLOCK FOR SOLID

HERE COPPLE MEET OF SCHOOL PACE AND

DOMOLITIS -

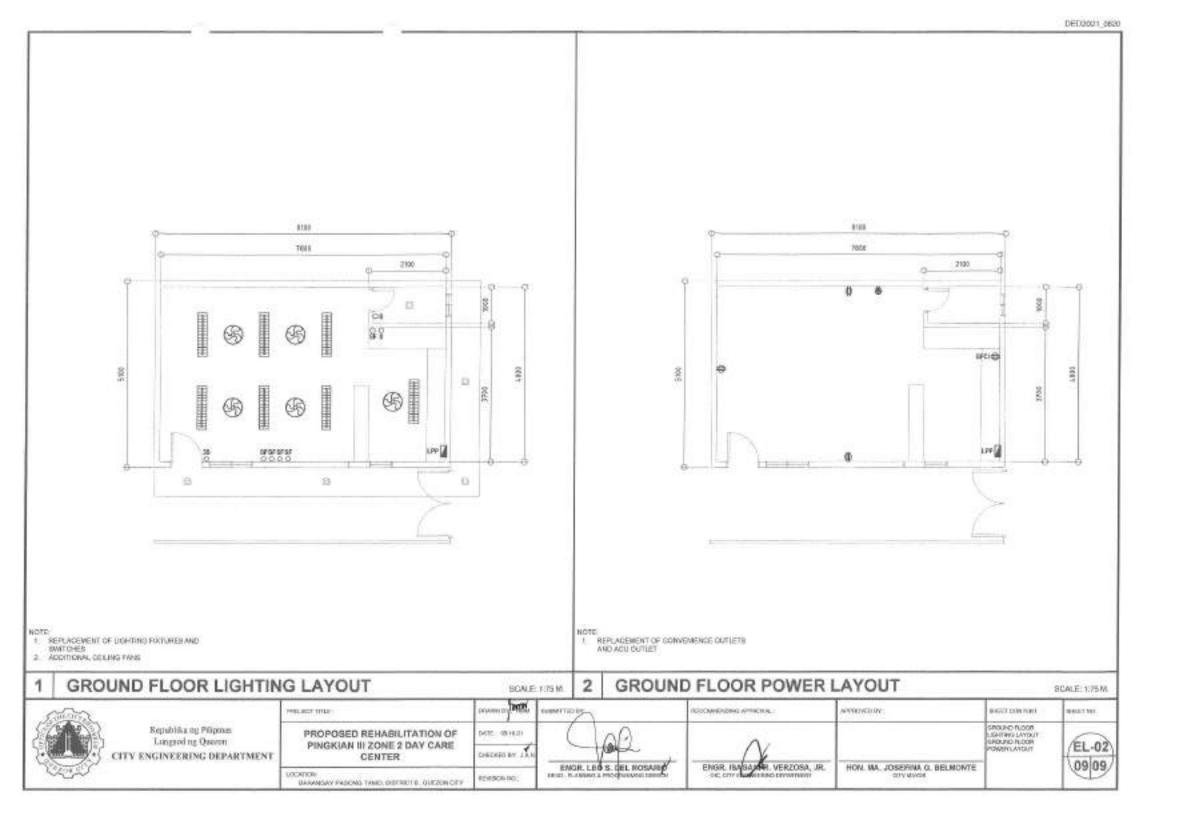
W. Kenne P.C. PHT

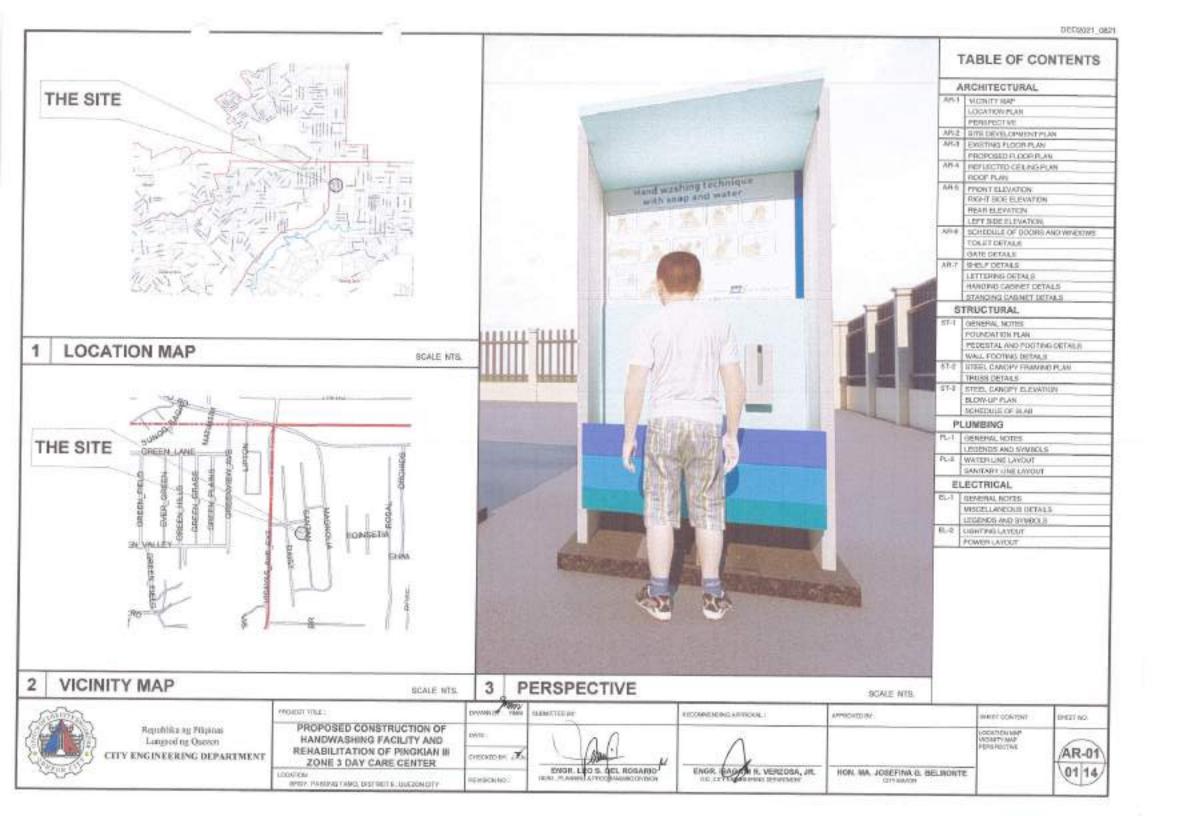
TH 25mmil PWC PPE

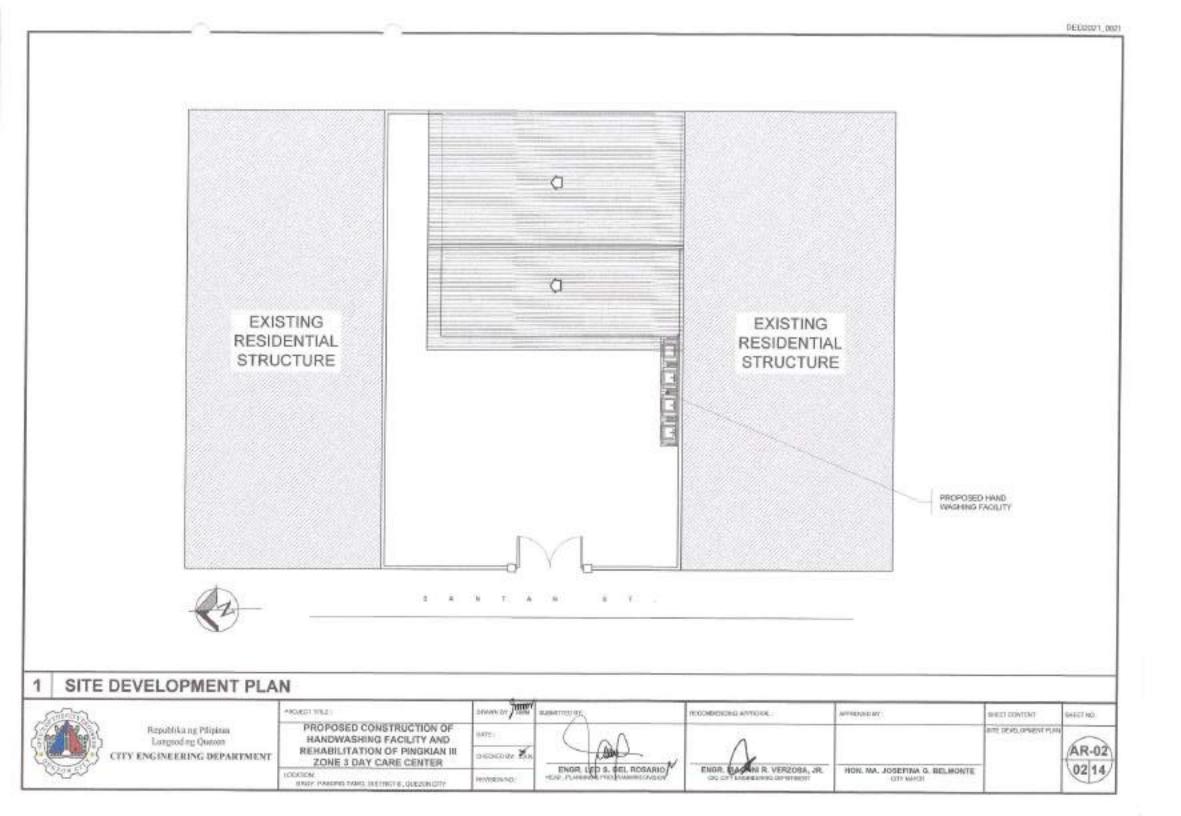
SCALE NTS.

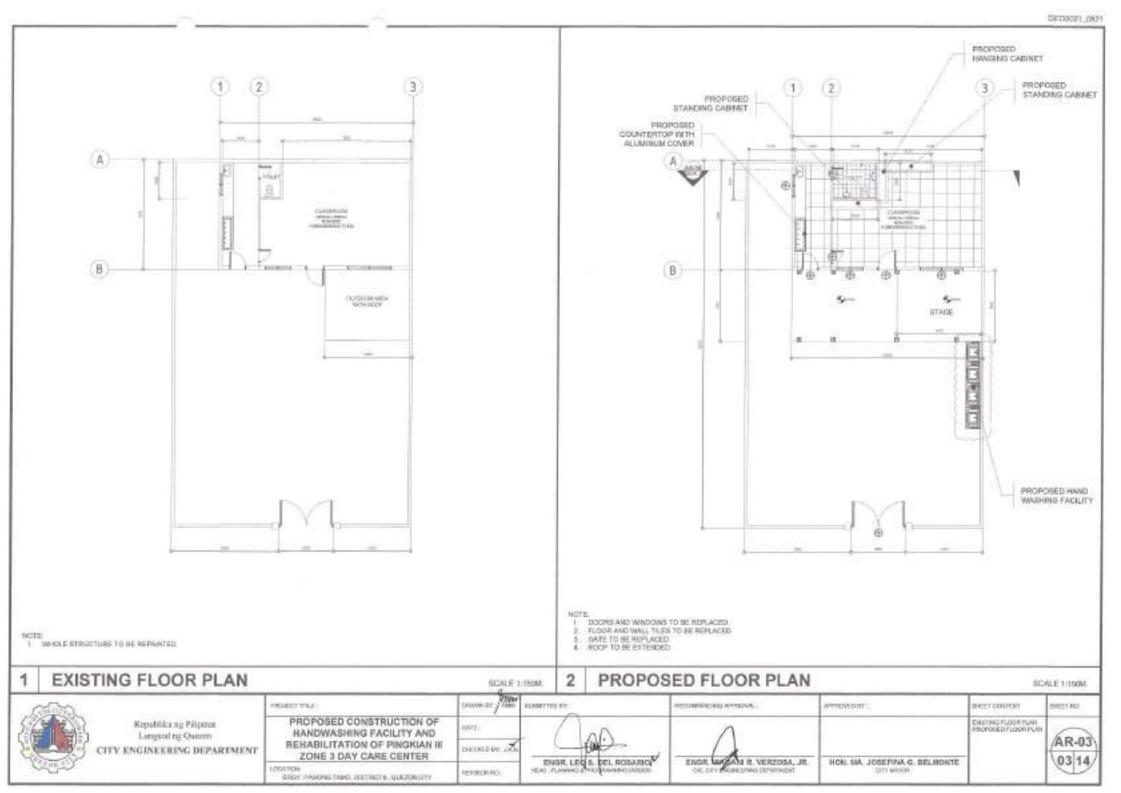
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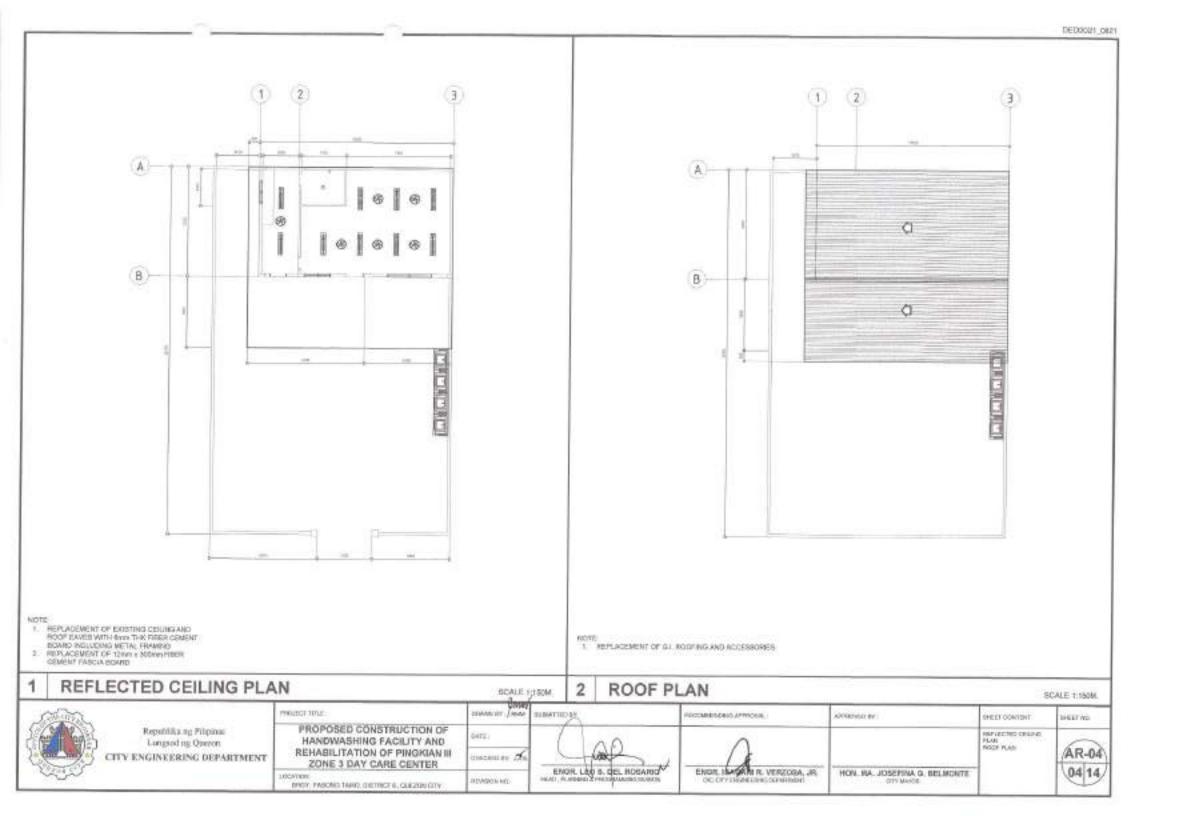
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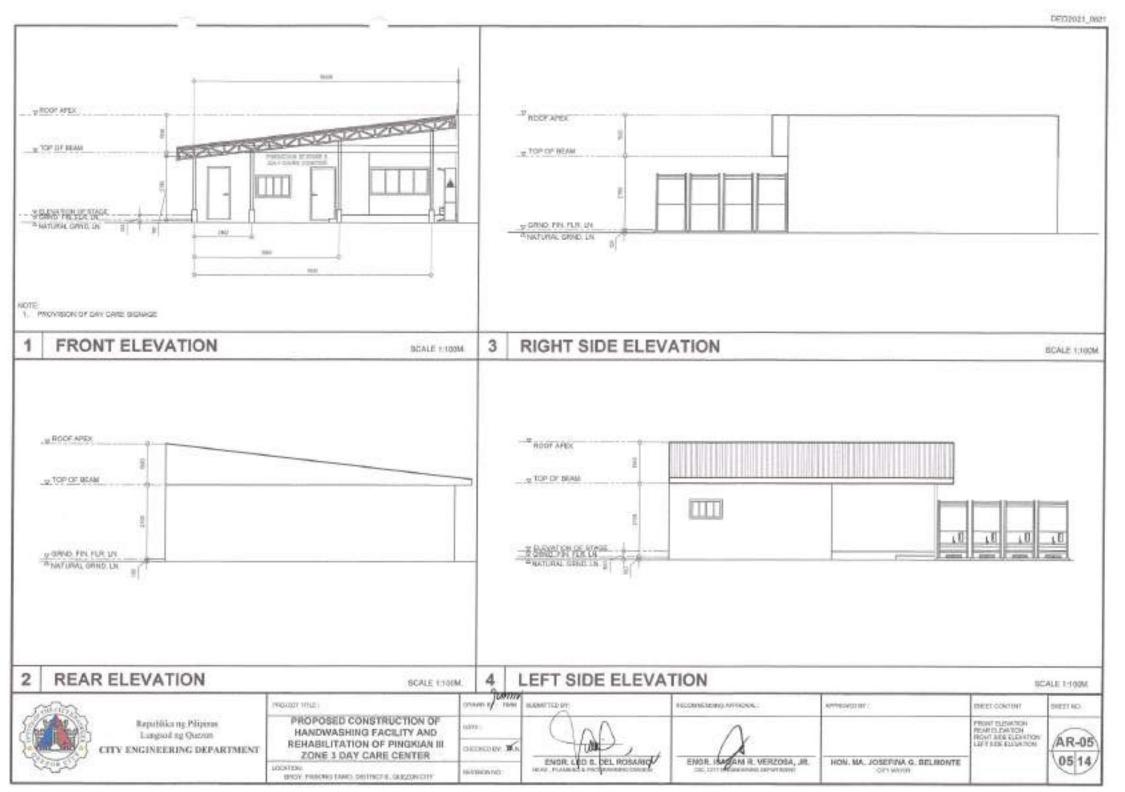


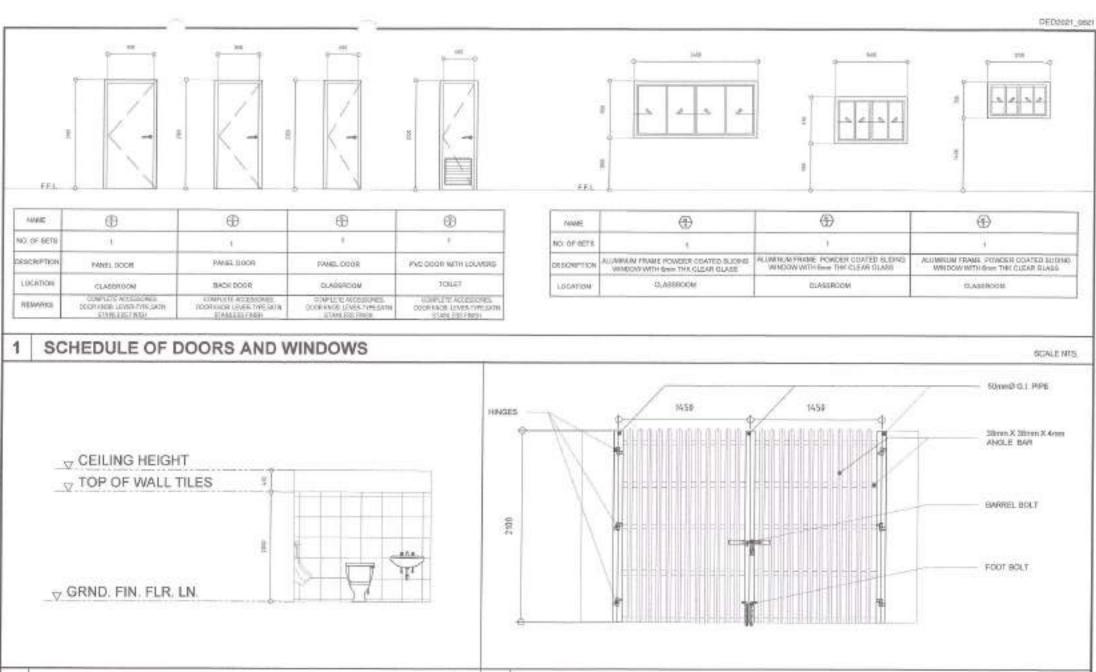




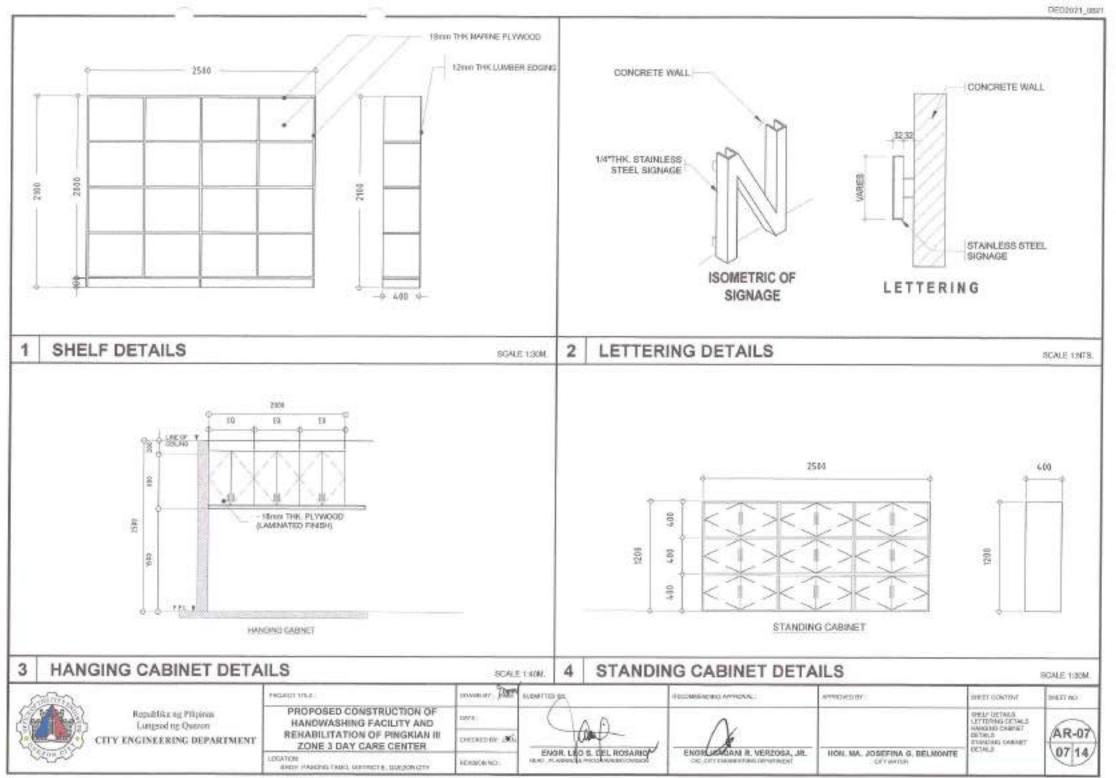


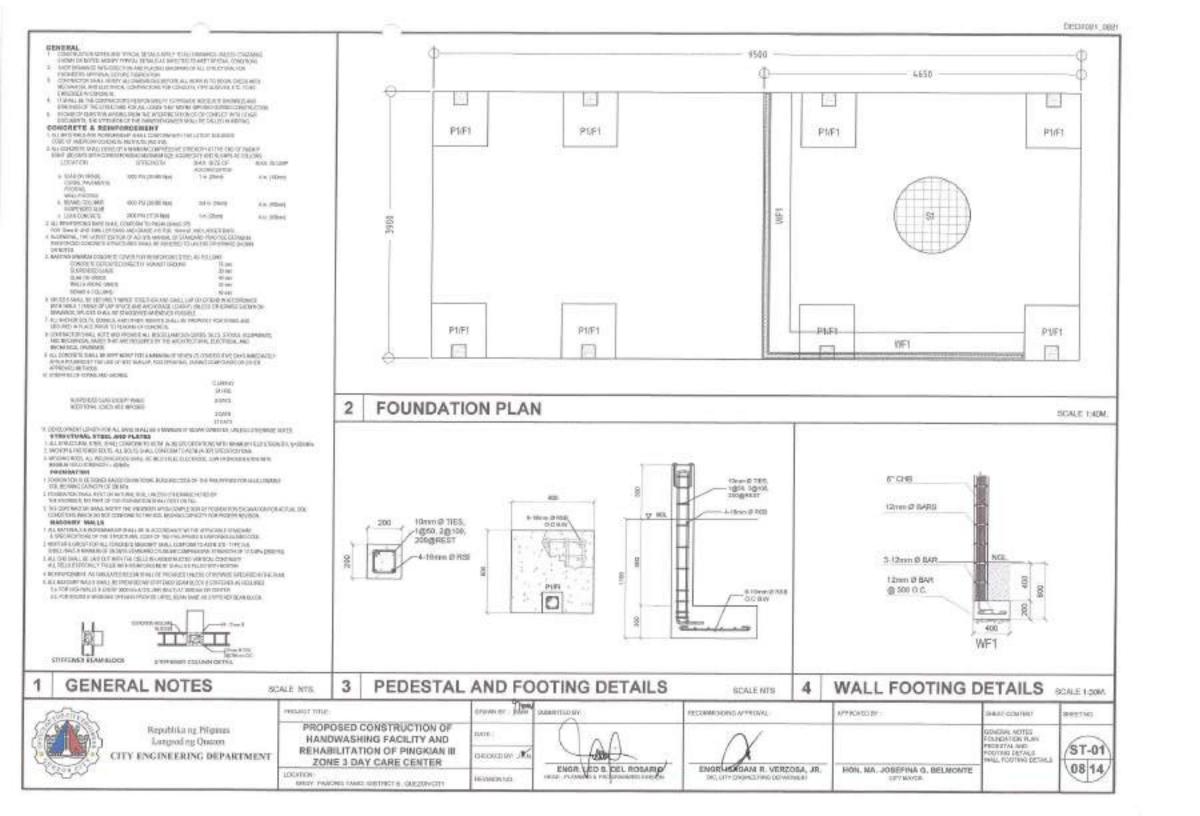


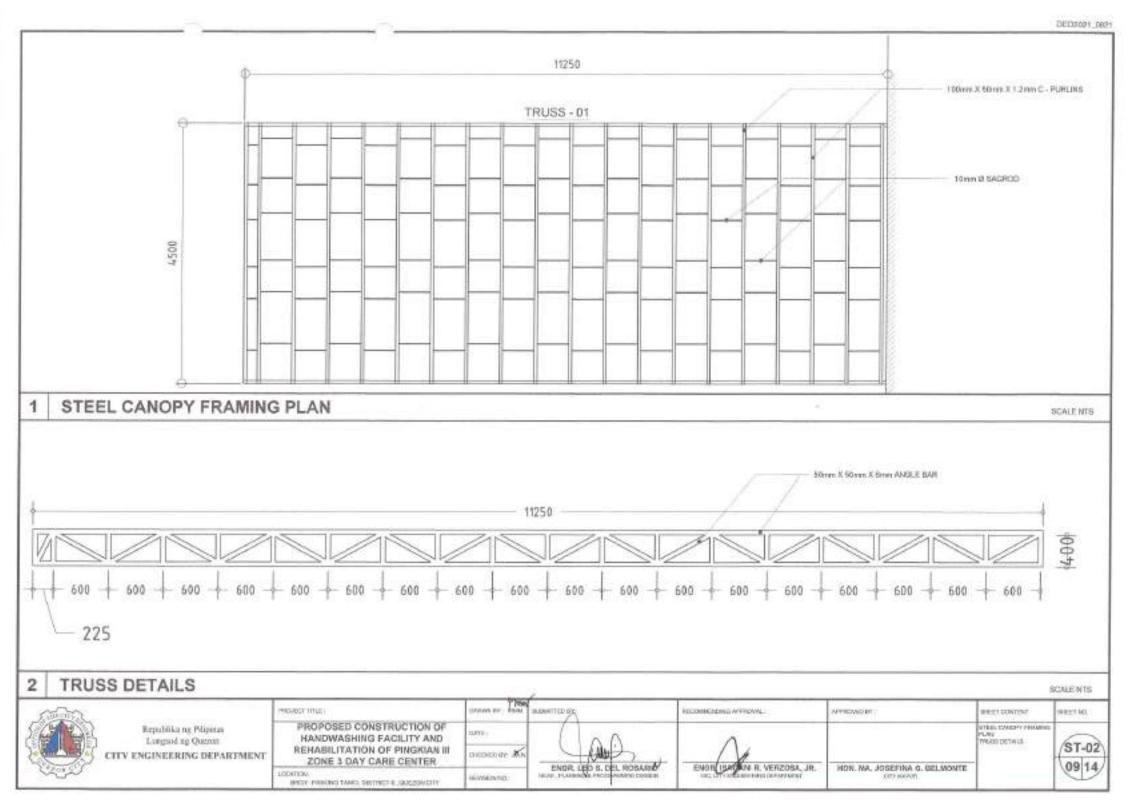


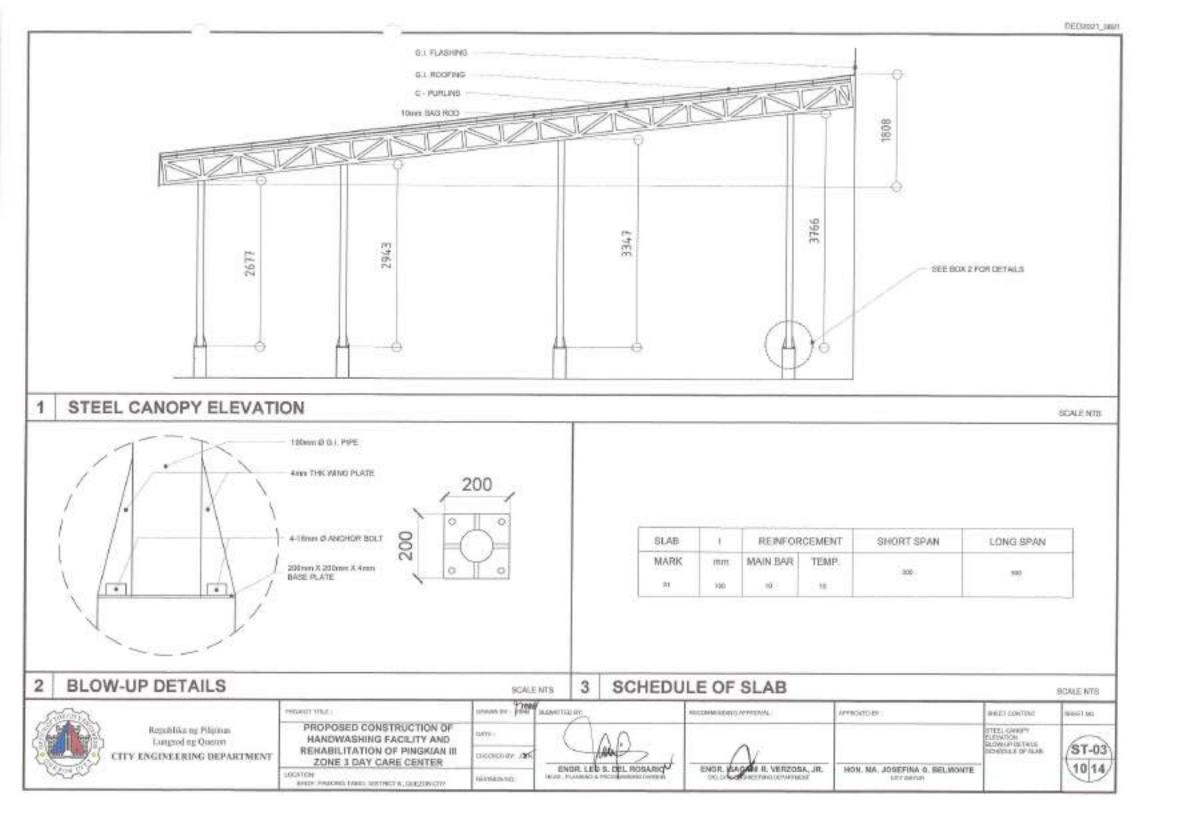






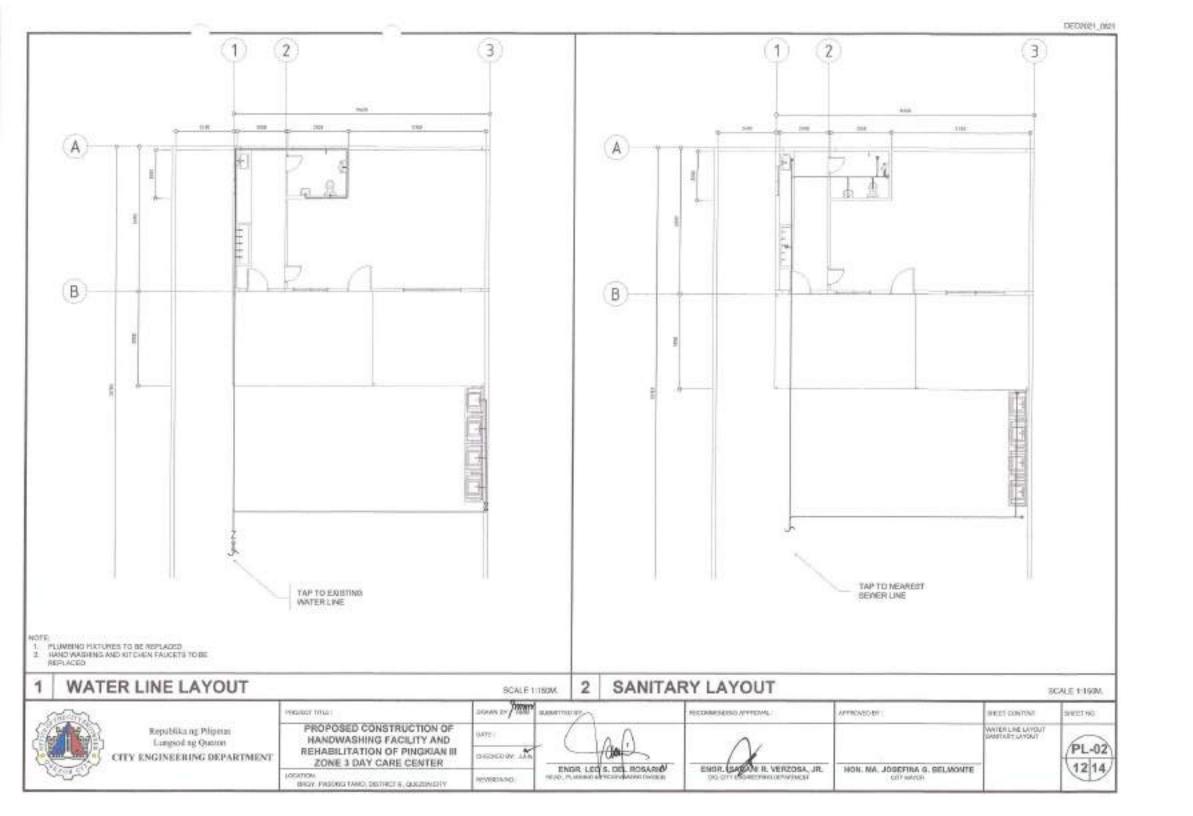






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S.	CITY ENGINEERING DEPARTMENT	HANDWASHING FACILITY AND REHABILITATION OF PINGKIAN III ZONE 3 DAY CARE CENTER			ENGRUSERNA R. VERZOBA, JR.		EFINA G. BELMONTE	PIDENC VIEL SAMEOUR	PL-01 11 14
,So		PROPOSED CONSTRUCTION OF	Graves or Table anore	niegy	RECOMMONDING APPROVAL:	APPROVED BY :		THE REPORT OF THE	SHEET NO.
1	GENERAL NOTES		SCALE NTS	2 LEGE	ND AND SYMBOLS			6	SCALE NTS.
	 4 Pipes shall not be embedded in structural members unless oth 5 Minimum slope for horizontal server lines shall be 7% and for d 6 Proposed ptumbing utilities shall conform with the actual locator 7 Connection of litures to pipes and fittings shall be according to 8 All door drains shall be verted individually. 9 All clean out femdes shall be fush-mounted to wall and shall be lines on grade and series and tablect contact with soil shall be p jute right thoroughly scaled in tax or apphal. 11 Provide vert stack and vert pipe thru root of cast iron service 12 All cast iron pipes shall be of approved quality and G.I. pipes if standard weight. 13 Provide gate valves to all water supply lines to futures. 14 All not water lines shall be provided with proper insulation whe 15 All individual branches to fotunes or group of litures and/or ex- vertical pipe extensions of itimetistics as shown. # = 300 mm for 12 mm @ and larger IK All hose tobbits shall be 18 mm @ (34f' @) unless otherwise ind 17 lister pipe of applic tark is 50 mm higher than the sighten gipe vi- NAII planting works and manner of continuction shall be under Nature Planter or Registered Sanitary Engineer. Any discrepance 	rain lines shall be 5%. an, depth and insert elevation of all existing pipes/utility amanutacturet's specifications. e provided with polished cover caps. Do not install floo covided with two (2) costs of protective tar covering an weight as required. for when distribution lines shall be Schedule 40/U.S. se exposed. pipments shall be provided with air chambers or capp liceted.	r cloan outs scoopt at d urappod with ed	RD SHO WC LAV URI KS BD DD CCO FCO DS mm Ø SHD CB MH A ES	ROOF DRAIN SHOWER WATER CLOSET LAWATORY URINAL KITCHEN SINK BUILDING DRAIN DECK DRAIN CEILING CLEANOUT FLOOR/GROUND CLEANOUT DOWNSPOUT millimator IMM DIAMETER SHOWER DRAIN CATCH BASIN MANHOLE DIRECTION OF FLOW GREASE TRAP		CHECK VALVE BUILDING SEWER BUILDING DRAIN WASTE LINE AREA DRAIN TOATH FLOOR DRAIN DRAIETER WASTE LINE WATER LINE GATE VALVE DESK DRAIN CLEANOUT PIPE DOWN PIPE DP MILLINETER GATE VALVE AREA DRAIN / CATO WATER CLOBET LAWATORY MANHOLE HOSE BBO STORM DRAIN LINE VENT AROVE CELLI CONDRETE PIPE / F VENT THRU ROOF DIRECTION OF FLO	REASIN RG ENF. CONC. PIPE WIRLOPE	
	2 The plantiting layout is only diagrammatic: pipes, cleancuts as possible. It is not intended to show the actual dimension of the pi and flatures shall be installed as and where indicated. Any reloca other trades. 3 The plantiting contractor shall verify all existing utilities at the site.	pes and futures in the drawing but all the pipes tion will require proper execution in relation with		I. FIXTUR FD	ES AND OTHER LEGEND		UNION PATENT		
	1 All plumbing works and materials indicated herein shall be con National Plambing Code, the rules and regulations of local auth utility companies and the provisions of the land doveloper when	orities concernent, the rules and regulations of local							



BCALE NTS

SCALE NRB.

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EL-01 13 14

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CONDUCT NAME PORTUGATION OF CONDUCT OF THE DEPORTUGATION OF CONDUCT OF THE DEPORTUGATION OF T

10034-0.04

DETAIL OF BORDING SHORE

- 1. ALL SUSCINICAL WORKS SHALL BE SOME IN ACCORDANCE WITH THE PROVIDENCY OF THE LATEST EDITEMENT THE PRIME PLECTRICAL CODE. THE LAWS AND ORDINANCES OF THE LOOK, CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOOK, POINTER AND TELEVISION. UTILITY COMPARE.
- 1. THE CONTRACTOR MAN, 35 CLUBE ALL FERRITINAND PAY ALL FEEL REQUEED FOR THE WORK AND SHALL RUBINESH THE OWNER THEOREM. THE ENGINEERS, KING, CRATHERATIS OF RELETINEAS INSPECTION AND APPROVAL FROM PROPER GOVERNMENT ALTHOUTER FOR COMPLETION IN-WORK.
- 8 ALL CMEEDOCO BRANCH DIRECTES SHALL RE INVIDUATION AND FOR EXPERIENCEMENTAL ATION BRACLINE MC SURVEXIED IN CONCURT DUALPET. EVERY TOO REIMETERS
- a PLAL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER RECEISARY TO FACE/TATE WIRE PULLING EVEN IF THESE WENCH. INDEATED ON THE FLAME, SIZING OF ALL PULLEDARE 24-WULDE CORPUTED BASED ON THE CODE AND REPORTED MANY THEP THE WARDS TO THE ENGINEER FOR APPROVAL PRICE TO FARR CATION LOCATION OF PULLBOXED BHALL BE ARPROVED BY THE ARCHITECTRINICALEUR ARCHITECTRINICALEUR THE REFLECTED ON THE WARNELT PLAN.
- 5. ALL POWER CUTLETS AND SWITCHES MIALL BE DROUNDING TYPE WITH PRIVALEL SLOTS FOR 290 V.
- 8. PROVIDE DECUND RWLT GURRENT INTERRUPTER GROUT BREAKEN FOR LOADS MARKED "GFCP" ON THE ALMI.
- 7. HAL MY TALLS, COMPARING, CARRIETS AND DOLLARS FOR IT MAKES BE PROPERLY DISCHARCED AND INCIDED.
- 8. UNLESS OF VERWISE WITHER INCLUSING VERSION FOR WALL MOUNTED DRIVESS BHALL BE AS FOLLOWS.

RECEPTAGLE OUTLET - 300 MH APT - HOMM ABOVE WORKING COUNTER. TELEPHONE DUTLET - 300 NM AFF CATVIDUTLET + 300 MM AFF LIGHTING SWITCH - 1400 MM AFF PRIMUSIONE- 1003464 AFE

- IN REPERT TO MSCHAWICK, PLUMBING AND PREPRICTION DRAMINGS POLINATINGS AND LOCATIONS OF ECONOMICAL ASTREES CONTINUE. LEQUENCES AS SPECIFIED AND ON EXCINE UNDER THEIR REPECTIVE SECTION.
- 10. ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SHEEFED.
- 11. THE DRAWINGS AND SPECIFICATIONS ARE INTERCED TO PREDENT GENERAL LAYOUT AND BROAD OUT, INSPECT RETTO, OF THE PROJECT BUT DO HOT RECEISABLY WEIGHTED DESCREED ACTUAL LOCATIONS, LEVEL AND DRITANCES OF THE EQUIPMENT. THE CONTRACTOR 8I HEREBY RECARDED TO MAKE BUCK ADJUSTMENT AT THE JOBSTE AS USCATION, DISTANCES AND LEVELS ARE SOMETIMED BY ACTUAL RELO CONDITIONS.
- 12. Any Discrete Aug Interest the PLAVE AND SPECIFICATIONS (\$14), IN INCOMPTING THE ATTRINGS OF THE ENGINEER FOR CLARIFICATION DECISION.
- 12 ALL USHTING AND COMMENDING OUTLIT CREDITS SHALL BE 25 SO, MM, THINK'S COPPER WRITUNLESS CIVERWISE INSTEE MINIMUM SEE CF. INST SHALL BE \$550, WA COPPER WATE ALL WATES AND GAILED SHALL BE ODLOF COEPED AS FOLLOWS

				_						-
	LINE 1-6020 LINE 2-VELLOW MENTRIAL-WHITE CORDOND-OREEN				- 20	SINGLE GANG SWITCH (FOR REPLACEMENT)	1010101	TROFFER TYPE TUBE LIGHT (FO	WITH 1X18W LE	DIT)
	14. BOXES WRE SUTTING ENCLOSURE SYML BE FRANCATED FROM MARKING WOTH OF THE WEEKT SURFACE STEEL				Sec.	TWO GANG SWITCH (FOR REPLACEMENT)		T5, 28WATTS LI (ADDITIONAL)	D TUBE LIGHT	
	CAVER THE 40 MM BUT NOT CAVER 45C30 SAT 14 PAINTED OVER 45C30 RATE AVAILABLE TO CAVER 45C30 RATE AVAILABLE TO CAVER AVAILABLE AVAILABLE TO CAVER AVAILABLE TO CAVER AVAILABLE TO CAVER A	HETAL PRIME REPORT AND TOPODAT WITH METAL PRIME REPORT AND TOPODAT WITH METAL PRIME REPORT AND TOPODAT WITH METAL PRIME REPORT AND TOPODAT			94	THREE GANG SWITCH (FOR REPLACEMENT)	B	CELUNG FAN (FOR REPLACEMENT)		
	 ALL ELECTRICAL VICEORS HEREINGHALL BE EXECUTED BY ESPERIEN ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONT CONTROL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTROL OF CONTROL	CED MEN UNDER THE DIRECT EMPERATION OF A FULL TIME C			- 04	SELECTOR SWITCH (CEILING FAN)	Φ	DUPLEX CONVER (FOR REPLACEM		
	PARTICULO AND PROPERTY PROBATED 18 TYPE DE SERVICE ENTRANCE AMALL ME AMULE PROBE, TREMERS PLUE BREAMEL, 60146472, 2004 of BERRIAL					E27 RECEPTACLE WITH LED BULE (FOR REPLACEMENT)	(<u>)</u>) DUPLEX CONVENIENCE OUTLET (ADDITIONAL)		
	11. COMENTS IN NO CARE STALL THERE BE MORE THAN THE SOUVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN ALL CONDUCT BENDS MALL BE FIELD INDER BY VISING HYDRAULC BENDERS, MANIMUM SENDING MORE BE IN ACCORDANCE TO THE CODE REGULER/MENTS.					WALL LAMP (ADDITIONAL)		PANEL BOARD		
	18 UPOH COMPLETOR OF ELECTRICK, CONSTRUCTION WORK, RELEASE THE CONTRACTOR INCLUENCED THE INSTALLATION TO BE REPORT ORIVINT NEW TREPRESENTATIVE. THE GROUND RESISTANCE FOR ELE ORIVINT NEW RESISTANCE DAWL, NOT EXCEED 2 CHM3.	ED IN DETAILS ON FORMS APPROVED BY THE GLIEDON CITY IN	HOPPERFORM		\oplus	GLOBE BULB (ADDITIONAL)				
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	(1607)	FICULOT TITLE	DOWNER TO MUT 10.85	mite av		resonnexers armony	APPROVED BY .		INTER CONTENT	1
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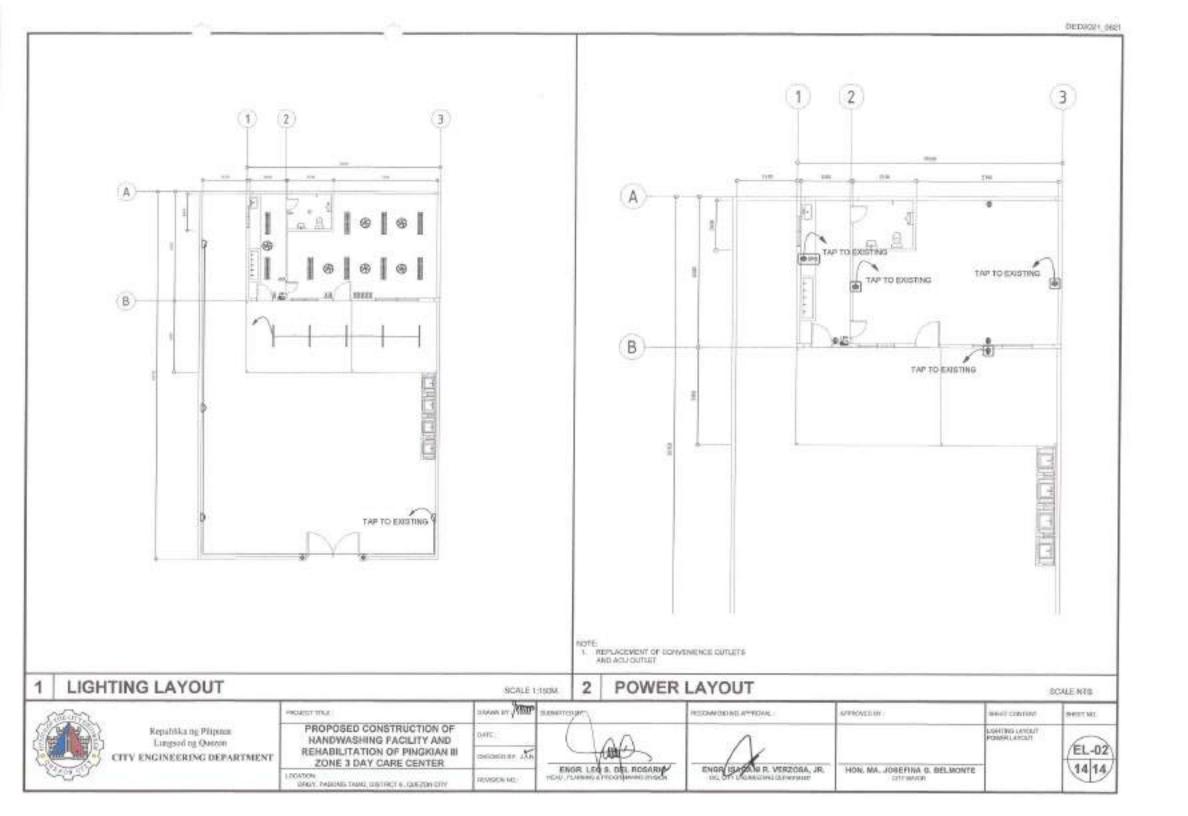
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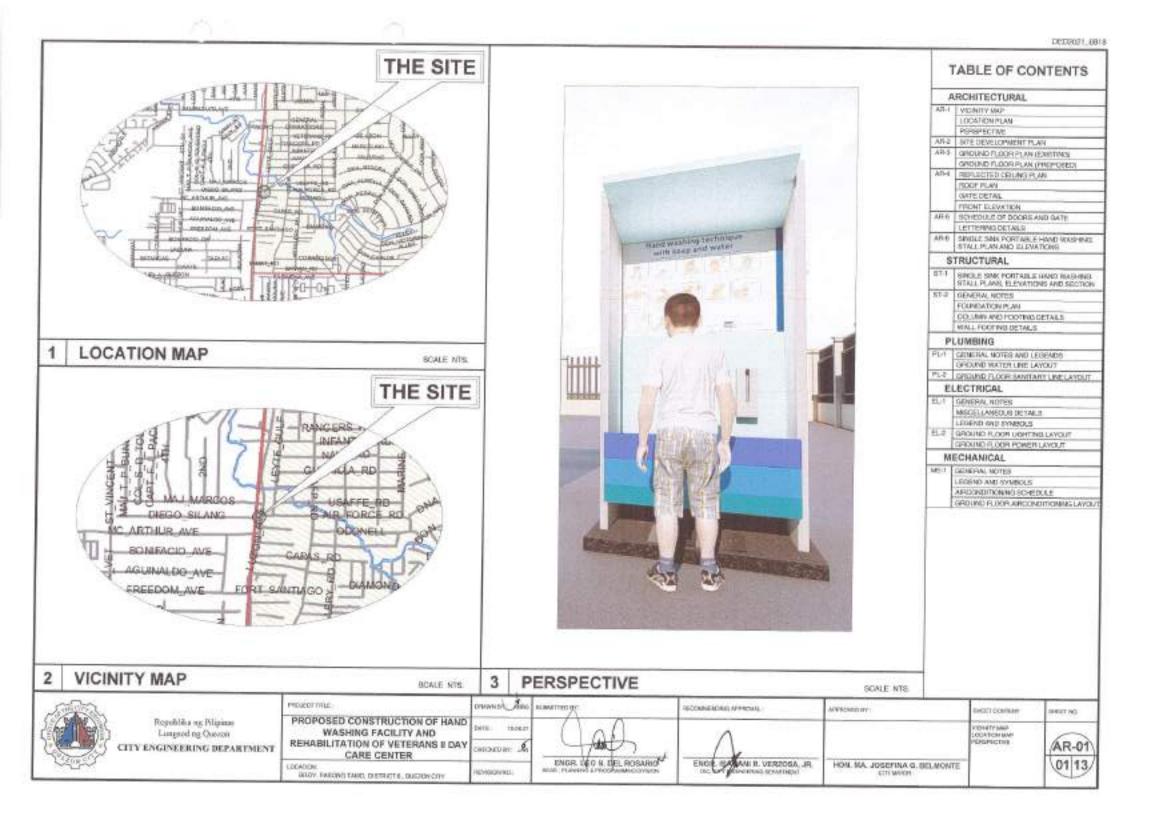
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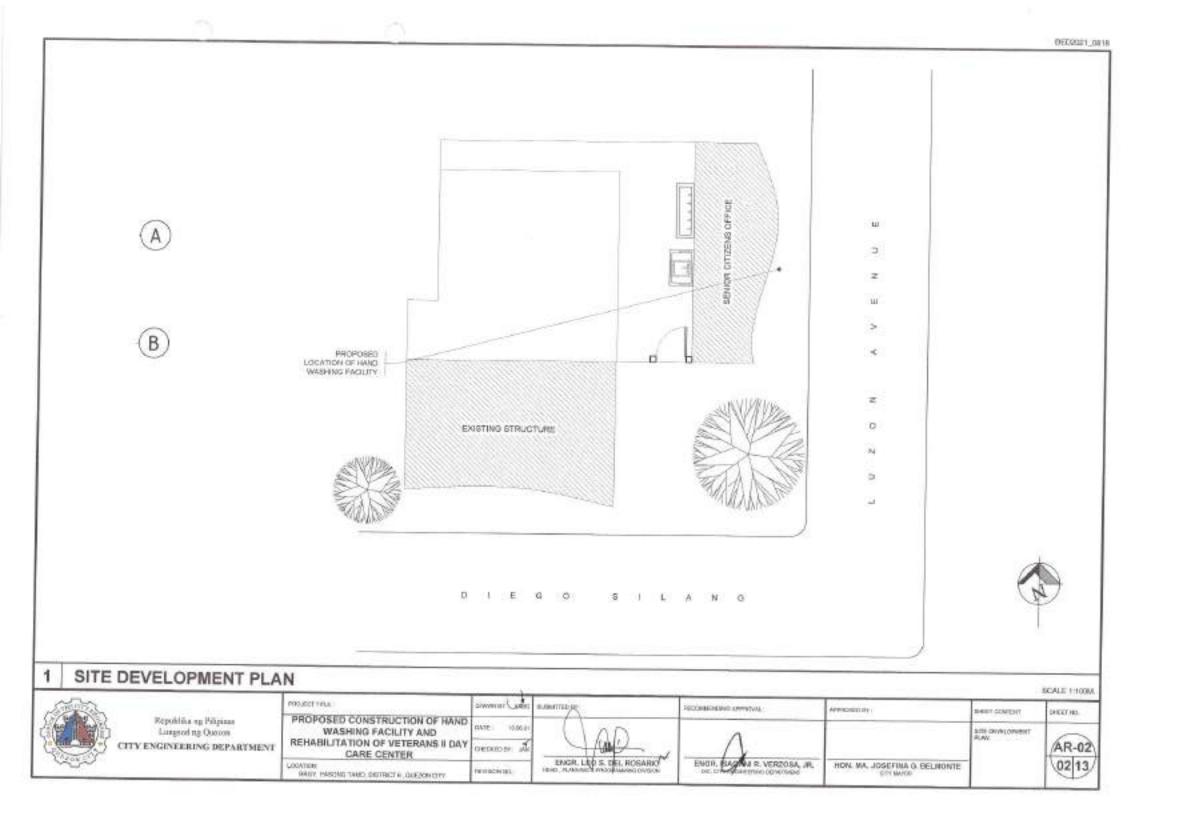
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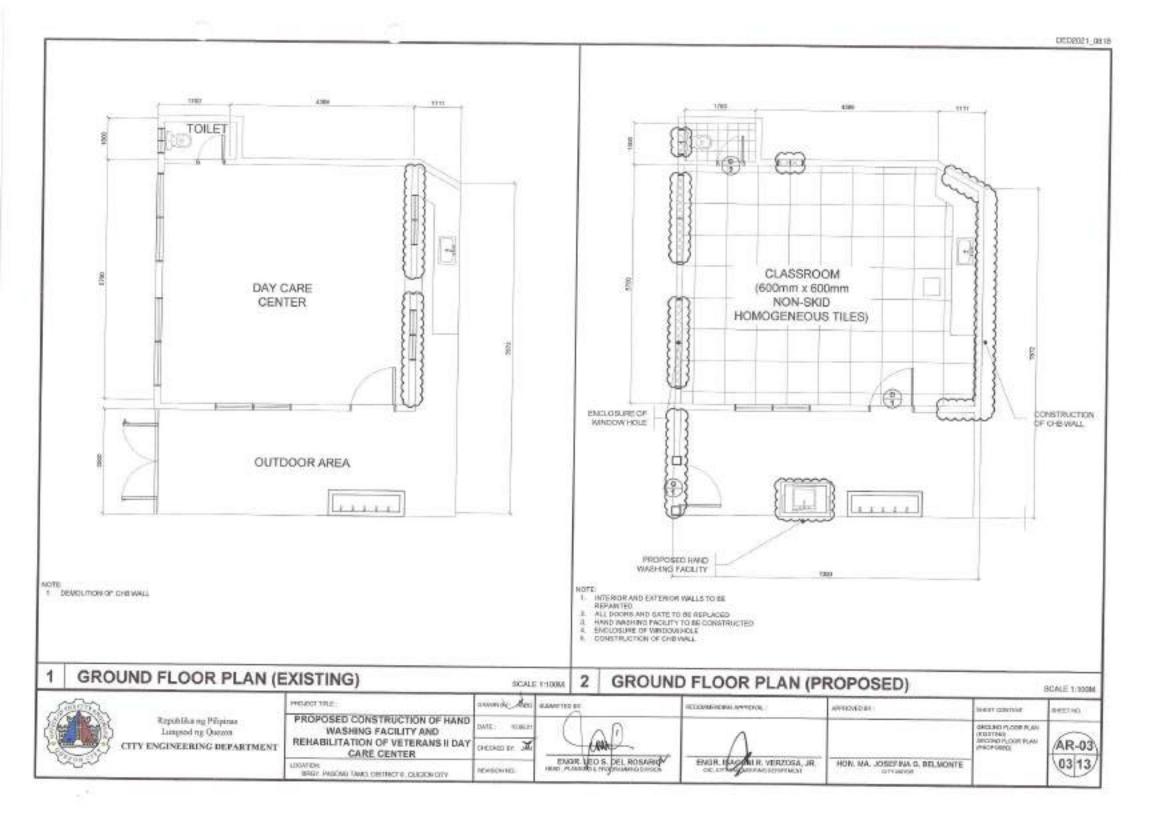
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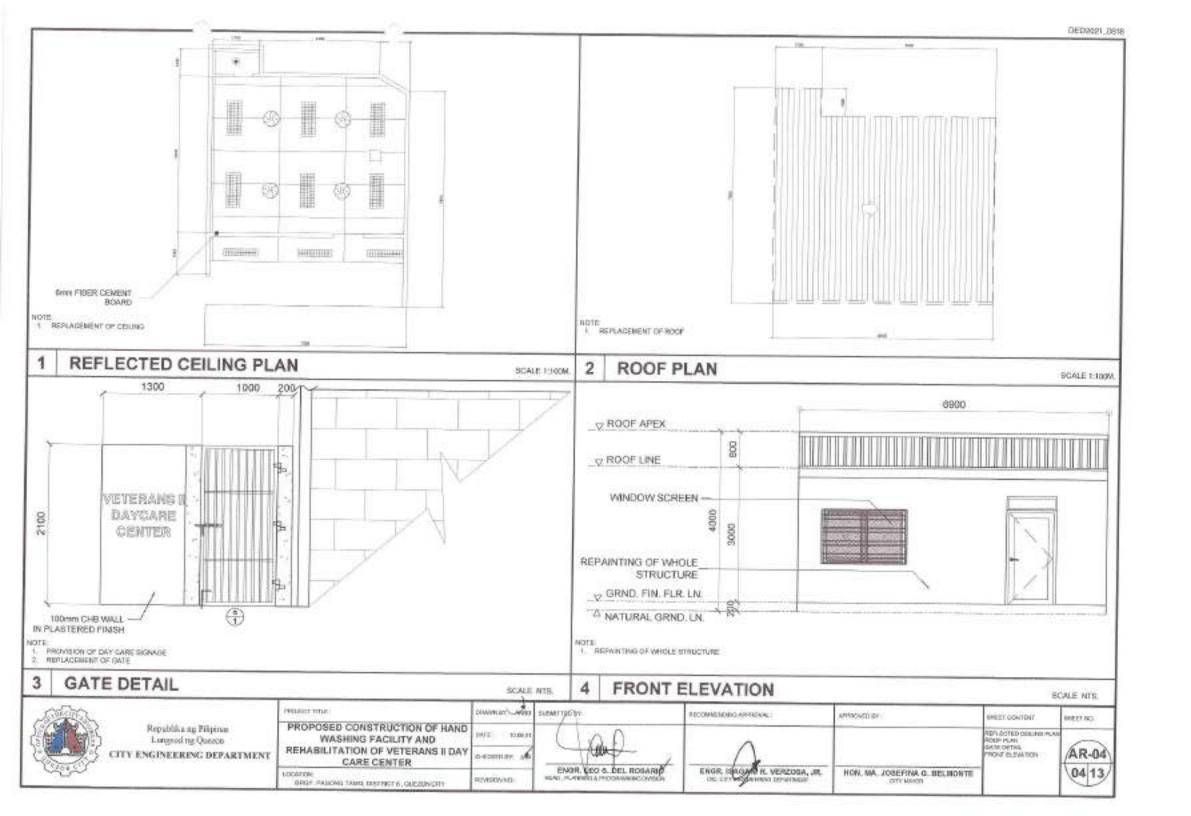
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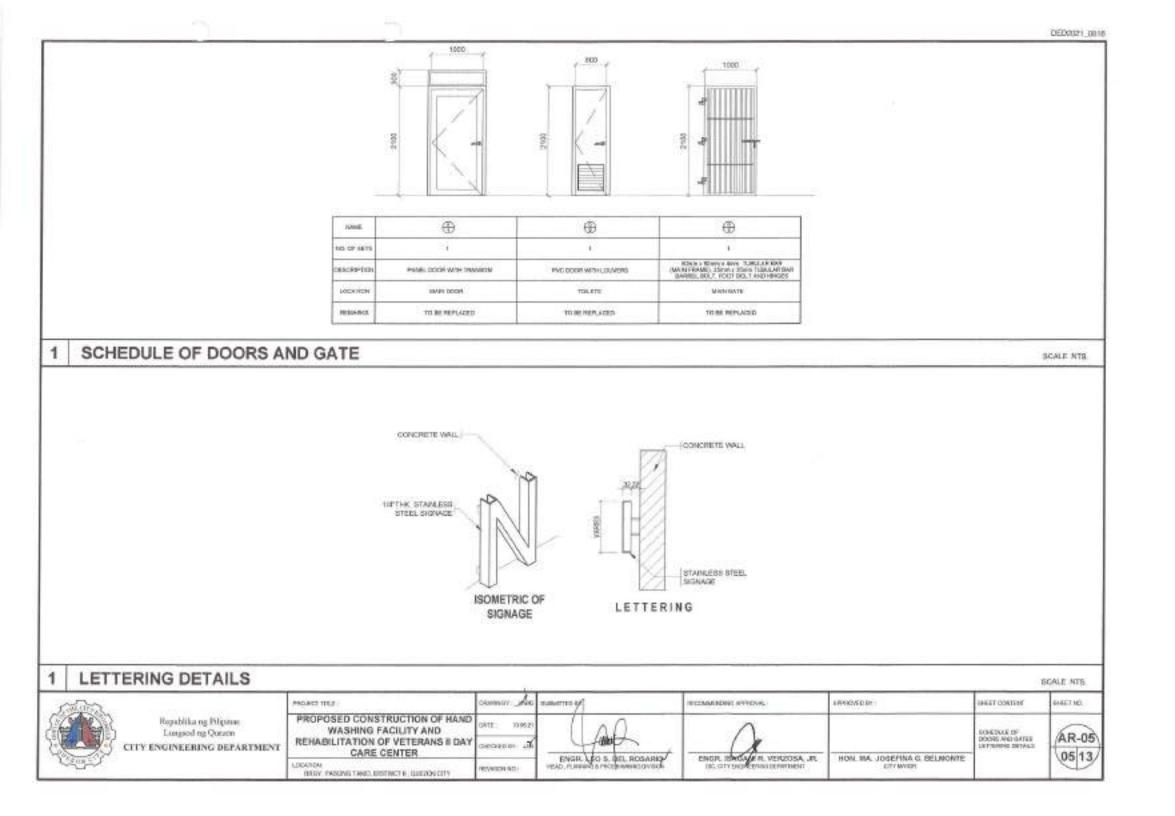


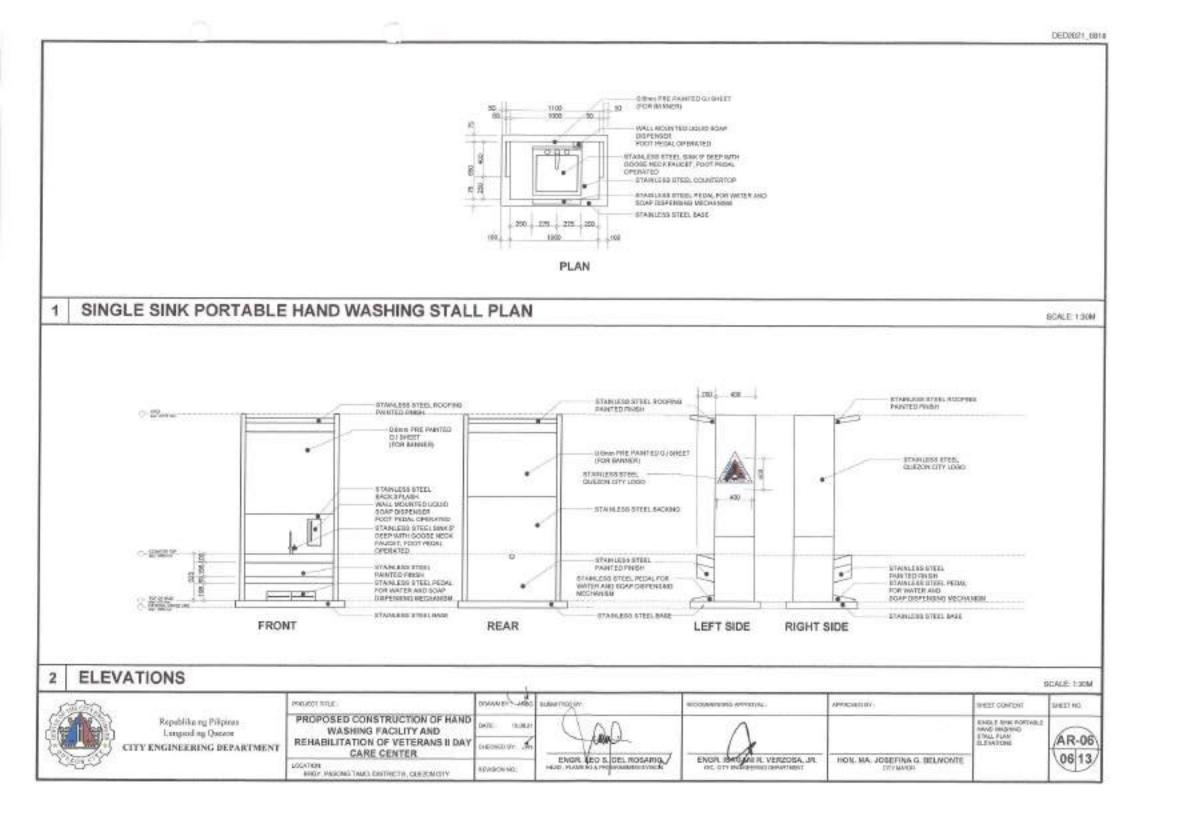


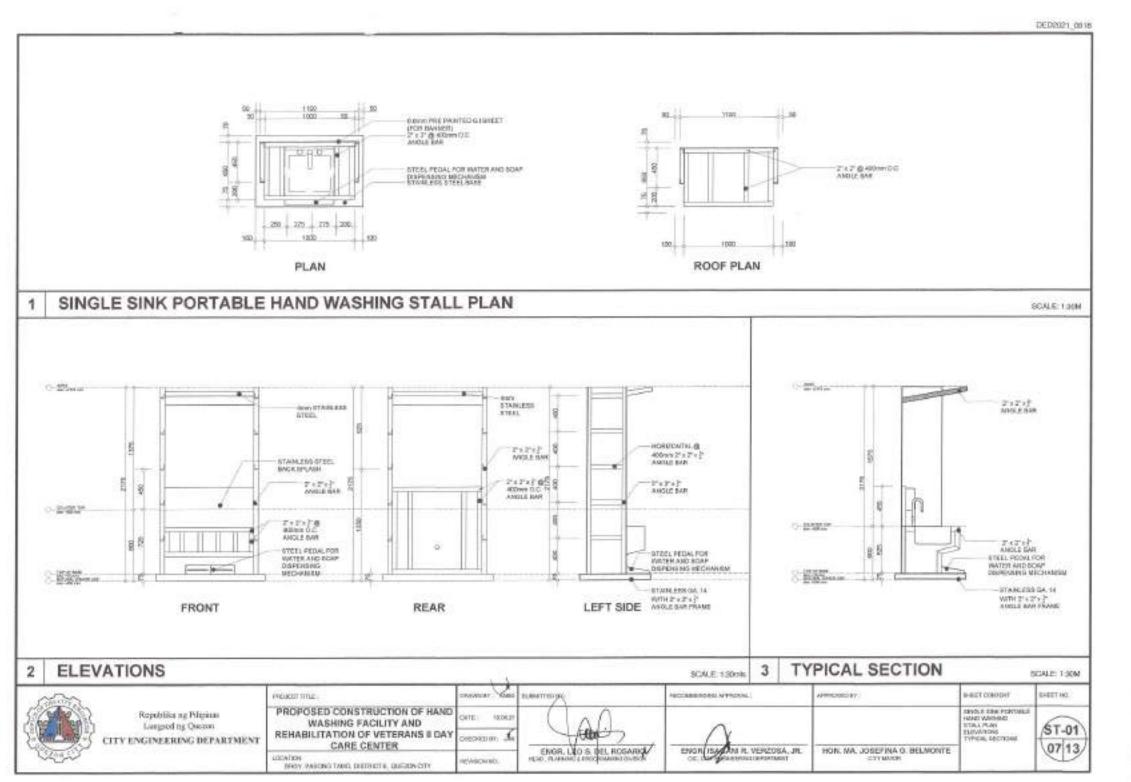








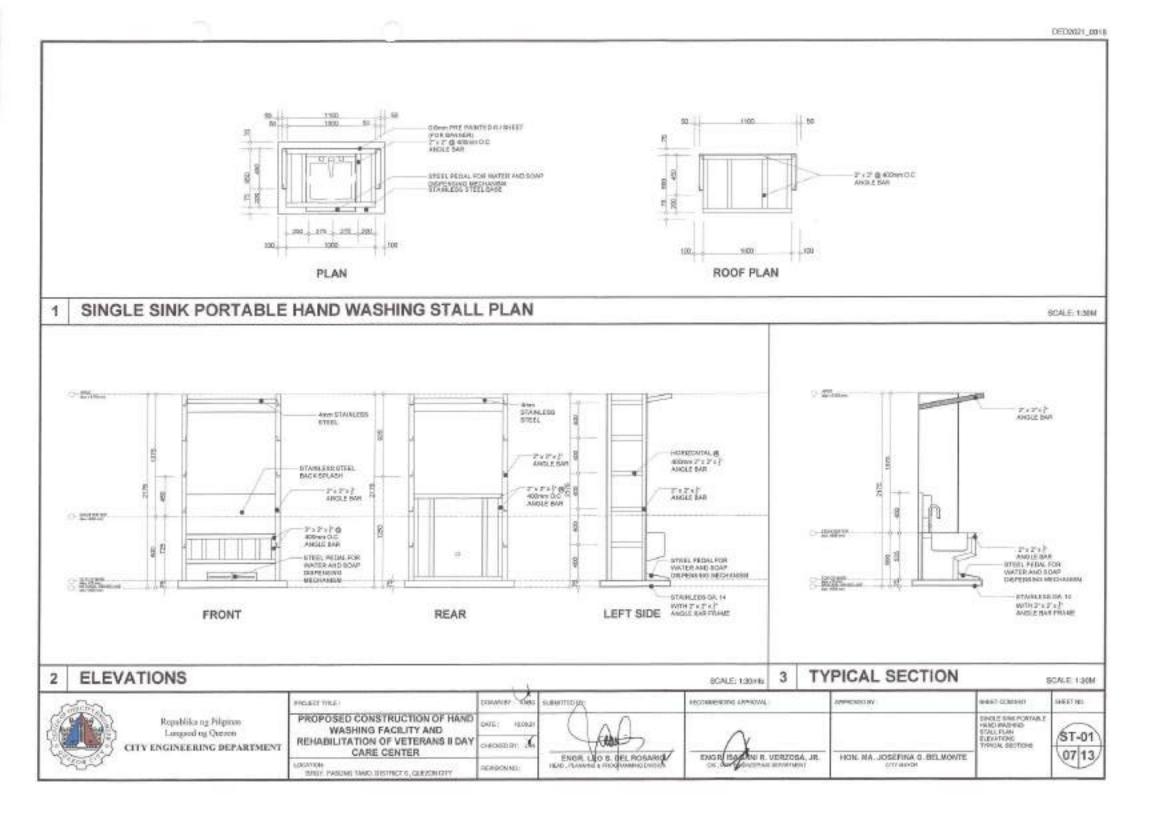


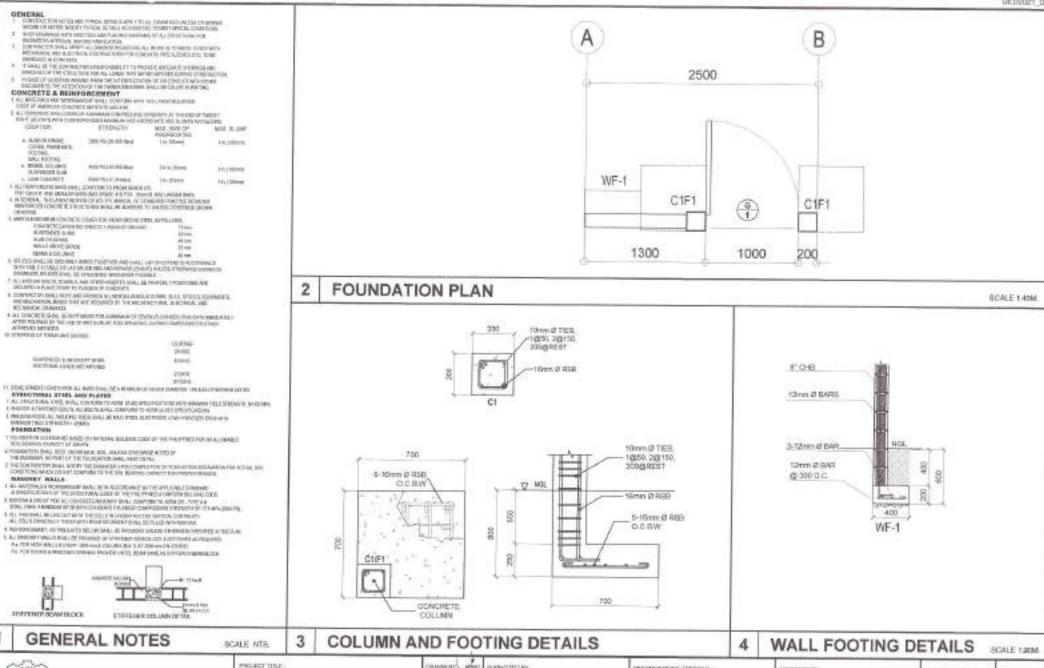


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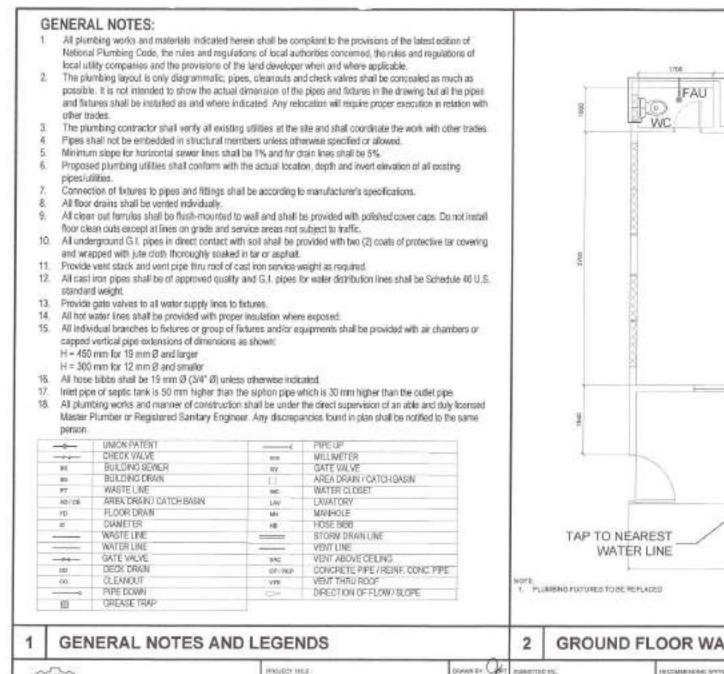
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PROPOSED CONSTRUCTION OF HAND

WASHING FACILITY AND

REHABILITATION OF VETERANS II DAY

CARE CENTER

HIN'S RANCING TAMO, DISTRICT R. GLEZOW CITY

LOCKINGS.

DATE:

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ENGR. LEG. S. DEL ROSARIO

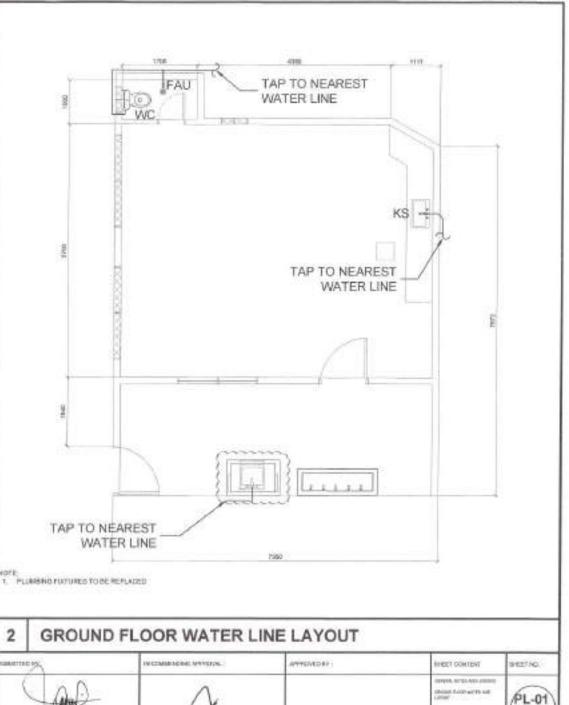
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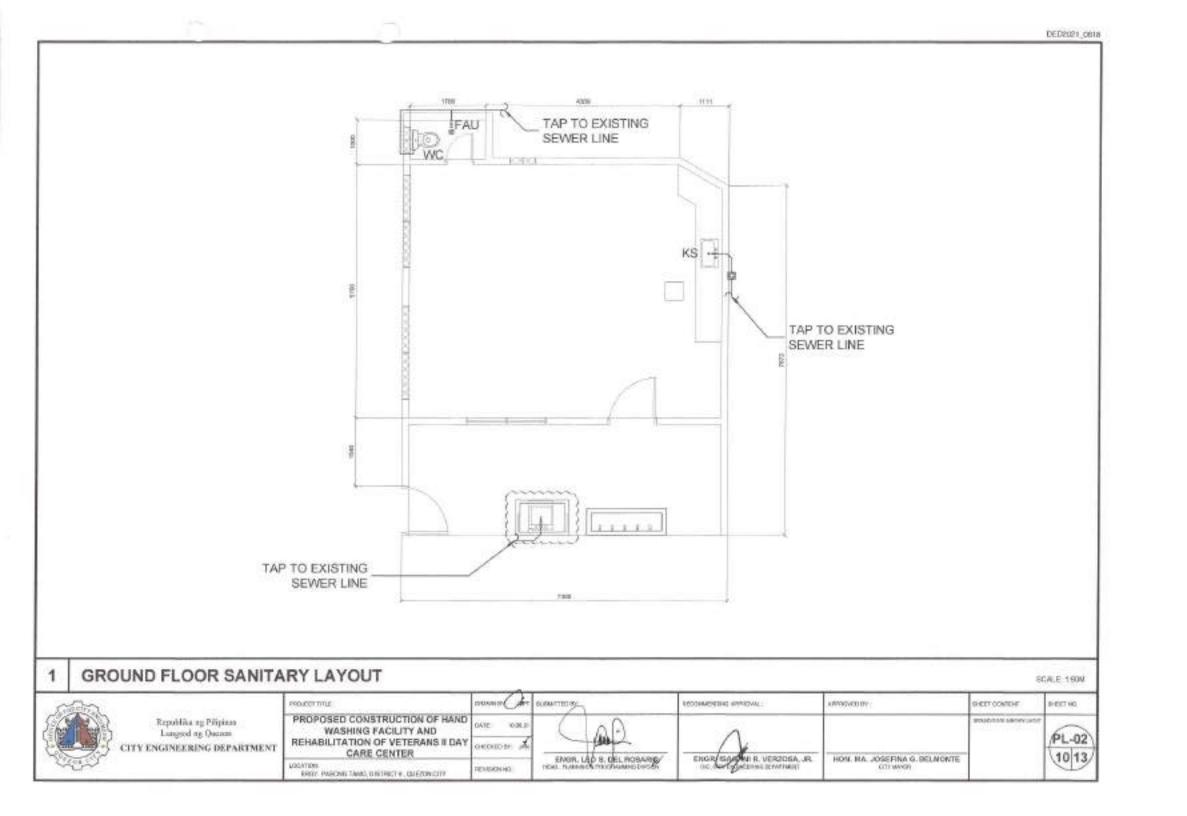
CITY ENGINEERING DEPARTMENT



ENGIL ISEGUITE VERZOSA, JR.

HOM, WA, JOSEFFNA G, BELINONTE

CITY MUDE





- 1. ALL SUSCEPTICAL WORKS SAINLI BE DONE IN KOORDANCE NEW THE PREVIDENCE OF THE LATERT COTIESH OF THE PREVIDENCE. ILLECTRICAL CODE: THE LASS AND OPDIMINOR OF THE LADAL CODE ENVIRONG AUTOMETED AND THE RESUMEMENTS OF THE LOCK, POWER AND TALEFHORE LOTATIVE DOMINIES.
- 3. THE CONTRACTOR BHALL GEOLRE ALL REPORTS AND TWY ALL FEED RECEIVED FOR THE MORE AND THAN, FURNELIN THE CREAT THE SUCH THE INVALIGNESS FILM, CENTRICATES OF INJECTICAL INDIRECTION AND APPROVAL FROM INCODE IN COVERIMENT AUTHORITES FOR COMPLETION OF NORS.
- 3 ALL MARKONS INVACIONALITY INVLUE FOR CONDUCT AND FOR DATOSED INVALLATION SHALL MILLING SUPPORT DEPT COMPLET CLAMPE EVERY 720 MILLINETER.
- 4 POLL BORDS SHALL BE PROVIDED BY THE CONTRACTOR WIREBUILT IN DRIVING WIRE PULLING YORK IF THINK INTERNOT INDICATED ON THE PLANE, SIZING OF ALL PALLOWES SINCL BE CONFUTED BASED ON THE CODE REDURINGUES. SUBAT SHOP DRIVING TO THE EXCLUSION FOR APPROVAL PRIOR TO MARINETON LOCATION OF MALAGER FINAL INF APPRINED BY THE ARCHITECTIONGNEER AND MUST BE REPLECIBLE ON THE RE-BULLY PLAN.
- IL. ALL PERMER DUTUETS, AND EWITCHED SHALL BE ORDARISHS TYPE WITH FRAMULE, SLOTS FOR 308 V.
- E. PROVIDE DROUGHD FALLET CLARENT EXTERELY THE CIRCLET EPIEADIS FOR LODGE WARDED "OFO" ON THE PLAN.
- AU, METALDO CONDUTE, OXENETS AND EXAMINENT WAY, BE PROPERTY DROUGDED AND DONORIS.
- II LAUGE OTHERWISE INCIDED, MICHINE HEIGHT FOR WALL MOUNTED DEVICES STRULINE AS FOLLOWS:

RECEPTACLE OUTLET + 100 MM AVY . HIGHM REDAE WORKING COLUMERS TREATHORN CRUTCHT - SOO HAN APP OATV-BOTLET - 900 MH APP LODITORS BHITCH - 1000 MR APP PANELBLARD - THEO NER SPE-

9. REFER TO RECHARGE. RUNNING INF FIRE PROTECTION DRIVINGS FOR RETINGS INST CONTENT OF RELIPINET VEHICLE. AS THEFT CONTROL BEOLENCES AS SPECIFIED AND OR SHORM UNDER THE R RESPECTIVE SOUTIONS.

- 18. ALL SECTIONALS TO BE UNITED INVESTIGATED BY CP. THE INITY CLAUSTY. INVESTIGATION OF INVESTIGATION
- 17. THE ORIGINAL AND IPEDRICATED IS AN INTERED TO PRESENT SHARES. LAYOUT AND REDAD CUTURE ORDER PROVOF THE PROJECT BUT DO NOT INCODERING VIENCIATE/DESIGNED ACTUAL LIDEATICHE, MAD DISTANCED OF THE INSUMARY, THE CONTRACTOR IN HERCEY EXAMPLE TO MAKE JUCH ADJUSTMENT AT THE JOSOTE AS LOCATOR DISTANCES. AND LEVILS AND OCKERNED BY ACTUR. FIELD CONSTRAINT.
- 12. ANY DISCREPANCY RETAILS THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DISCREER FOR CLARFICKT DR (25C) INC.
- 13. AU, CENTING AND CONVENENCE OUT IT CREDITE DAILS IN LIVING ADD. THANKING CONTROL WARE UP ADD. OTHER ADD. ROTTED. VANDALINE OF WARE SHALL BE 3.5 50 MM. COPPER MARE ALL WARES AND CABLED SHALL BE OCLORODORD AN POLICOME.

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14. INCOME, MARE, DUTTENE, SHELKOS JRC SHELL, ER: FRANKLATECHNICAL STED, WITH THORNESS 45 YOLLONG. INVATIVATION THE WEET DURINGS STREET

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GA12 PARTED NITH METAL PRIMA EPOIN AND TOPOORT GA HEIMARTED INTHINCING PRIMIR BRORY AND TOPODAT 15. ALL ELECTRICAL WORKS HEREIN CHALL BE EXECUTED BY EXPERIMENTED MENUADRY THE DIRECT SUPERVISION OF A

- FULL-THAT LIGENSED GLECTRICK. ENGINEER AND A DELY ACCREDITED ELECTRICAL CONTRACTOR BY POLA. WORK RHALL INF NEATLY PLACED, REDURELY INSTEAD AND PROPERLY INSPECIA
- 16. TVH OF SHARE ENTRANCE SHULL BE SHOLD PHONE, TWO WEE FULL GROUND, 10 HERTZ SOV IC HOWING.
- 17 CONDUCTS IN HER CASE SHIELD THE RELEASED THRAT THE ECLEVAL BY/CONFECTATION COMPANY OF ACCURATE CONTROL THREAD THREAD AND THE ADDRESS AND THE ADDRESS AND ADDRESS TO THE CODE FEIDUREMENTS.

18. UPOH COMPLETION OF ELECTRICAL CONSTRUCTION/WORK, HELLATION RESISTANCE TEET AND PLACEDONALITY THEY INVAL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETALS ON FORMS APPROVED IN THE CURCEN OTY EXECUTIONS CERVICE HIS CERVICE HER THE PRESENCE THE DROUGH RESISTANCE FOR ELECTRICAL SYSTEMS. SHALL NOT BE HORE THAN 5 CHIER, COMMUNICATION SECURIDING ADDITION DRIVE INVESTIGATED 2 CHIER.

GENERAL NOTES

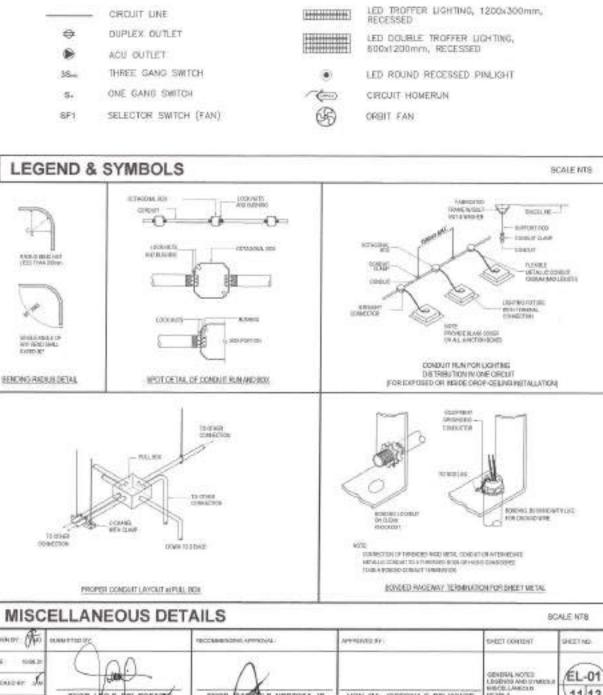


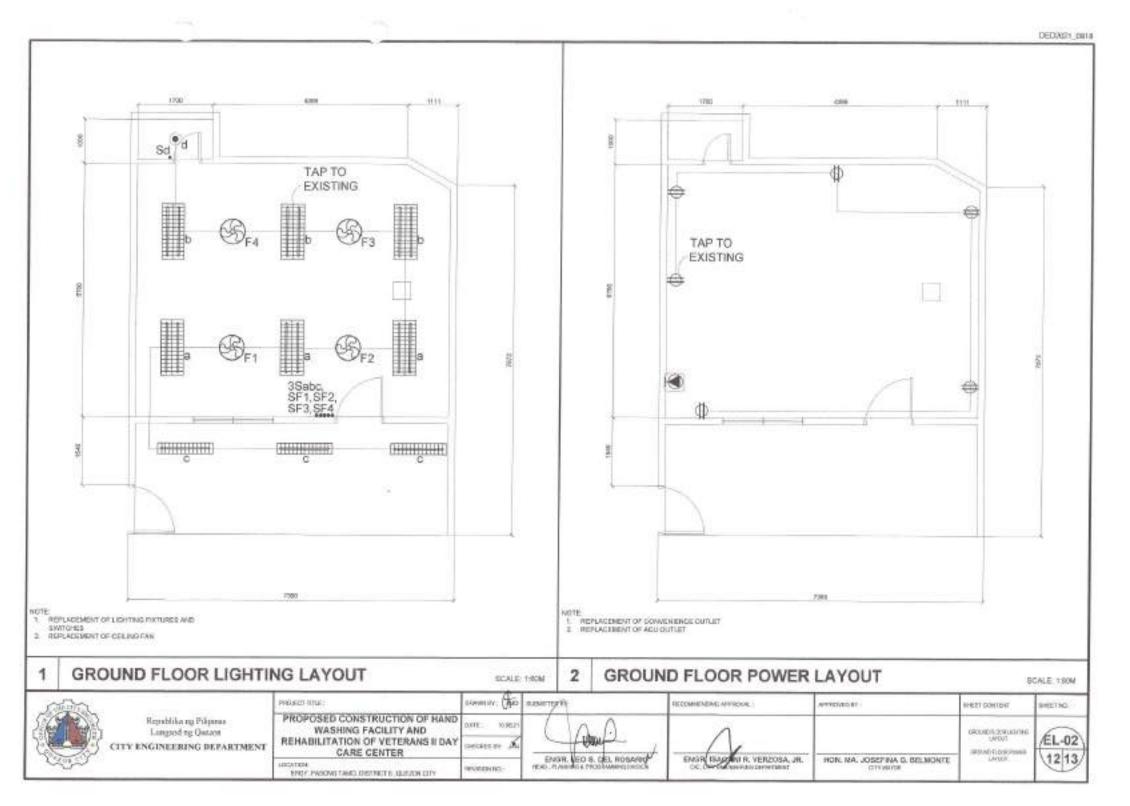
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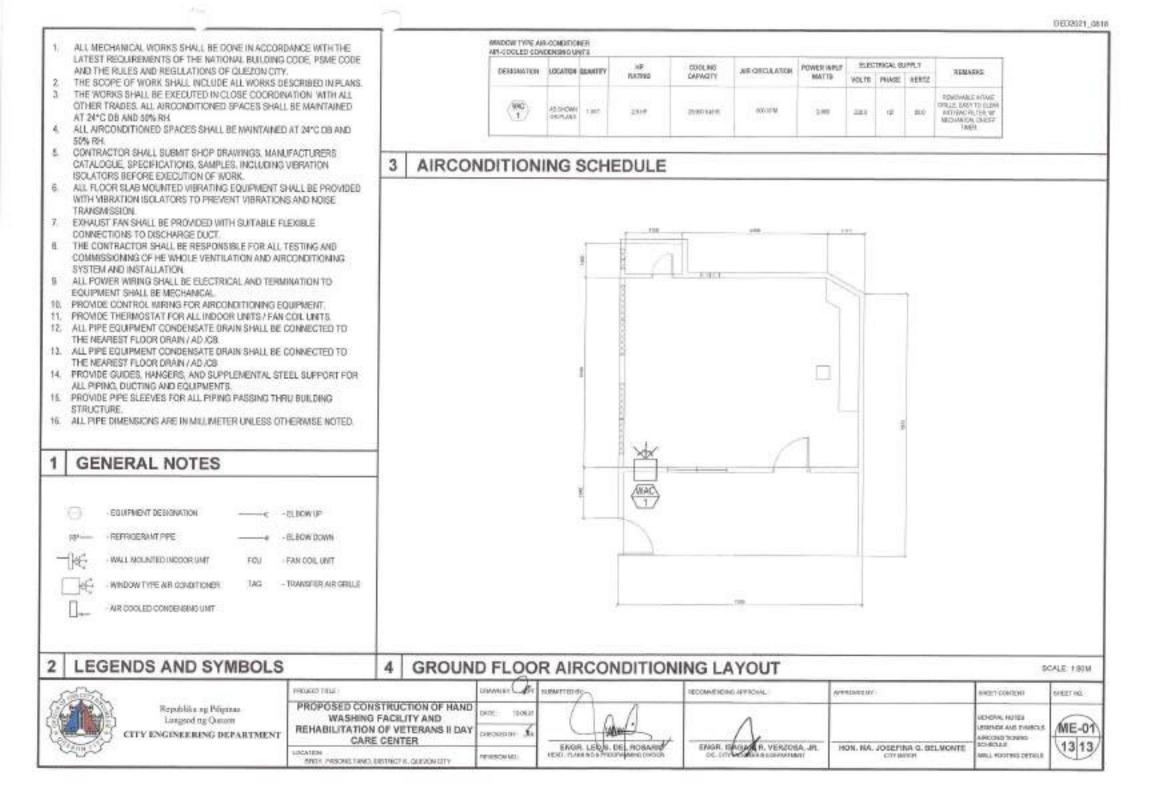
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Notes on the Bill of Quantities

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 HAND WASHING FACILITY AND REHABILITATION OF DAY CARE CENTER AT DISTRICT 6 / AREA XII

LOCATION : BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00009

DURATION : Seventy Five (75) Calendar Days

BREAKDOWN OF COST

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
NO.	PINGKIAN I DAY CARE CENTER				
Ι	GENERAL REQUIREMENTS				
П	CONSTRUCTION OF HAND WASHING FACILITY				
Ш	REHABILITATION OF DAY CARE CENTER				
	PINGKIAN III ZONE 3 DAY CARE CENTER				•
I	GENERAL REQUIREMENTS				
П	CONSTRUCTION OF HAND WASHING FACILITY				
Ш	REHABILITATION OF DAY CARE CENTER				
IV	REHABILITATION OF STAGE				
	PINGKIAN III ZONE 2 DAY CARE CENTER				
Ι	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	CENTERVILLE DAY CARE CENTER				
I	GENERAL REQUIREMENTS				
П	CONSTRUCTION OF HAND WASHING FACILITY				
Ш	REHABILITATION OF DAY CARE CENTER				
	VETERANS II DAY CARE CENTER				
Ι	GENERAL REQUIREMENTS				
П	CONSTRUCTION OF HAND WASHING FACILITY				
Ш	REHABILITATION OF DAY CARE CENTER				

TOTAL COST P

	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
LUMP SUM BID IN WORE	DS :				
Contractor :					

Bid Form Page 3 of 3

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF PINGKIAN 1 DAY CARE CENTER

LOCATION : BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00009

SCOPE OF WORK :

- GENERAL REQUIREMENTS include temporary enclosure, billboard, scaffolding, construction safety & health and clearing, hauling and disposal of construction materials and debris.
- II CONSTRUCTION OF HAND WASHING FACILITY.
- a Installation of single sink portable hand washing facility.
- b Site Works include chipping of concrete for sanitary / plumbing works.
- c Civil / Structural Works include restoration of concrete for sanitary / plumbing works.
- d Sanitary / Plumbing Works include installation of roughing-ins, fixtures and accessories.
- III REHABILITATION OF DAY CARE CENTER.
- a Site Works include removal works, cleaning and clearing for painting preparation, earthworks and termite treatment.
- b Civil / Structural Works include concrete works, masonry works, metal works and roofing works.
- C Architectural Works include floor finishes, wall finishes, ceiling finishes, painting works, installation of doors and windows, fabricated materials and letterings.
- d Sanitary / Plumbing Works include installation of roughing-ins, fixtures and accessories.
- e Electrical Works include installation of roughing-ins, wirings, devices and fixtures.
- VII All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
Ι	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	₽
	Clearing, Hauling and Disposal of Construction Materials and Debris	4	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	37	sq.m.		
	Temporary Enclosure Around the Construction Area (h= 2.4m)	20	l.m.		
				DIRECT COST I	₽
	CONSTRUCTION OF HAND WASHING FACILITY				
А	HAND WASHING FACILITY				
	Single Sink Portable Hand Washing Facility	2	unit	₽	₽
				MATERIALS COST-A	₽
				LABOR COST-A	
				DIRECT COST-A	₽
В	SITE WORKS				
	Removal Works				
	Chipping of Concrete (Sanitary / Plumbing Works)	2	sq.m.	₽	₽
				DIRECT COST-B	P
С	CIVIL / STRUCTURAL WORKS				
	Masonry Works				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Restoration of Concrete (Sanitary / Plumbing Works)	2	sq.m.	₽	₽
				MATERIALS COST-C	₽
				LABOR COST-C	
				DIRECT COST-C	₽
D	SANITARY / PLUMBING WORKS				
D	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC with Hub		piece	₽ 	
	50mm Ø, P-Trap	2	piece		₽
	50mm Ø, 1/8 Bend	2	piece		
	100mm Ø x 50mm Ø, Wye	7	-		
	50mm Ø, Cleanout with Adapter	1	piece piece		
	Waterline System	1	piece		
	Roughing-Ins 20mm Ø, Pipe PPR		nicoc		
	20mm Ø, Pipe PPR 20mm Ø, Elbow	2	piece		
		4	piece		
	20mm Ø, Coupling 20mm Ø, Tee Equal	2	piece		
	Miscellaneous & Consumables	2	piece		
	400cc Solvent Cement				
	All-Around Sealant	1	can		
		1	can		
	Hacksaw Blade	1	piece		
	Teflon Tape	1	roll		
	Waste Cloth	1	kg		
				MATERIALS COST-D	ŧ
				LABOR COST-D	
				DIRECT COST-D	P
					_
				MATERIALS COST II	P
				LABOR COST II	
				DIRECT COST II	₽
III	REHABILITATION OF DAY CARE CENTER				
A	SITE WORKS				
~	Removal Works				
	Removal of Dilapidated Door	2	set	₽	₽
	Removal of Dilapidated Window	9	sq.m.		
	Removal of Dilapidated Gate	1	set		
	Removal of Tiles	33	sq.m.		
	Removal of Countertop	2	sq.m.		
	Removal of Ceiling	78	sq.m.		
	Removal of Roofing and Accessories	82	sq.m.		
	Removal of Water Closet	1	set		<u> </u>
	Removal of Urinal	1	set		
	Removal of Lavatory	1	set		
	Removal of Wall	5	sq.m.		
		5	99.00	1	

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Excavation for Structures	4	cu.m		
	Backfill and Compaction	4	cu.m		
				Subtotal	₽
	Termite Treatment	2	gal	₽	₽
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
				MATERIALS COST-A	₽
				LABOR COST-A	
				DIRECT COST-A	
в	CIVIL / STRUCTURAL WORKS				
	Concrete Works				
	On-Site Mix Concrete, 21 Mpa, 3/4" Gravel @ 28 Days	2	cu.m	₽	₽
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	10mm Ø Column	215	kg		
	12mm Ø Wall Footing	48	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	16mm Ø Footing	140	kg		
	16mm Ø Column	110	kg		
	Formworks				
	Wall Footing	5	sq.m		
	Footing	3	sq.m		
	Column	12	sq.m		
	Masonry Works				
	100mm CHB Wall Laying, including mortar, reinforcement	29	sq.m		
	and two-face plastering				
	Metal Works				
	Gate				
	12mm Square Bar	15	kg		
	50mm Ø X 2mm Round Bar	14	kg		
	38mm Ø Barrel Bolt	1	set		
	Cylindrical Hinge, Heavy Duty	3	piece		
	Window Screen				
	Stainless Steel Mosquito Screen with Complete Framing	9	sq.m		
	Miscellaneous & Consumables				
	Acetylene Tank (Refill)	1	tank		
	Cut Off Blade	5	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	1	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-painted G.I. Rib Type Roofing	101	sq.m.		
	Pre-painted G.I. End Flashing	43	l.m.		
	Pre-Painted G.I.Ridge Roll	14	l.m.		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	12mm x 300mm Fiber Cement Fascia Board	43	l.m.		
	6mm Thk One-sided Aluminum Foil Thermal Insulation	101	sq.m.		
	Tekscrew	171	piece		
	Blind Rivets	217	piece		
	Silicon Sealant	5	tube		
				MATERIALS COST-B	P
				LABOR COST-B	
				DIRECT COST-B	P
С	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping Preparation of Tile Works	38	sq.m	₽	₽
	300mm x 300mm Non-Skid Homogeneous Tiles	2	sq.m		
	400mm x 400mm Non-Skid Homogeneous Tiles	37	sq.m		
	Wall Finishes				
	300mm x 300mm Homogeneous Tiles	15	sq.m		
	Ceiling Finishes				
	6mm thk Fiber Cement Board including Metal Framing	96	sq.m		
				Materials Cost	P
				Labor Cost	
				Subtotal	₽
	Installation of Doors				
	D1 - (0.90m x 2.10m) Swing Type Panel Door Painted Finish	1	set	₽	₽
	D2 - (0.60m x 2.10m) Swing Type PVC Door	1	set		
	Painted Finish (Kitten White) w/ 400mm X 300mm Louver				
	D3 - (0.80m x 2.10m) Swing Type Flush Hollow Core Painted Finish	1	set		
	Door jamb				
	D1 - (0.90m x 2.10m) Swing Type Panel Door Painted Finish	1	set		
	D3 - (0.80m x 2.10m) Swing Type Flush Hollow Core Door	1	set		
	Hardware and Accessories				
	Door Hinges, Heavy Duty, Stainless	9	set		
	Door Knob, Lever Type, Stainless	3	set		
	Installation of Windows				
	W1 -(1.40m x 1.20m) Sliding Window, 6mm Thk,	5	set		
	Clear Tempered Glass White Color Powder Coated Aluminum				
	Frame with Complete Accessories				
	W2 -(0.90m x 1.20m) Sliding Window, 6mm Thk,	1	set		
	Clear Tempered Glass White Color Powder Coated Aluminum				
	Frame with Complete Accessories				
	W3 -(0.50m x 0.50m) Awning Window, 6mm Thk,	1	set		
	Clear Tempered Glass White Color Powder Coated Aluminum				
	Frame with Complete Accessories				
	W4 -(1.40m x 1.20m) Sliding Window, 6mm Thk,	1	set		
	Clear Tempered Glass White Color Powder Coated Aluminum	•			
	Frame with Complete Accessories				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)	42	sq.m	₽	₽
	Flat Latex Paint Finish				
	Ceiling	96	sq.m		
	Interior Wall	104	sq.m		
	Epoxy Enamel Paint Finish (Metal Surfaces)	2	sq.m		
	Fabricated Materials				
	Standing Cabinet (Day Care Center)	6	sq.m		
	Countertop	3	l.m.		
	Letterings				
	200mm Stainless Steel Lettering	22	set		
	"PINGKIAN I DAY CARE CENTER"				
				Material Cost	₽
				Labor Cost	
				Subtotal	₽
	Cleaning and Re-Touching of Painting with Simple Design	69	sq.m	₽	ŧ
				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 with Hub	3	piece	₽	₽
	75 mm Ø, PVC Pipe with Hub	5	piece		
	100mm Ø, PVC Pipe with Hub	3	piece		
	50mm Ø, P-Trap	5	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	19	piece		
	75mm Ø, 1/8 Bend	3	piece		
	100mm Ø, 1/8 Bend	3	piece		
	75mm Ø, 1/4 Bend	3	piece		
	75mm Ø x 50mm Ø, Tee	2	piece		
	75mm Ø x 75mm Ø, Tee	2	piece		
	100mm Ø x 75mm Ø, Tee	4	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	1	piece		
	100mm Ø, Cleanout with Adapter	2	piece		
	50 mm Ø No Hub Coupling	2	piece		

				TOTAL COST
Waterline System				
Roughing-Ins				
20mm Ø, PPR Pipe	5	piece		
20mm Ø, Elbow	15	piece		
20mm Ø, Coupling	5	piece		
20mm Ø, Tee Equal	6	piece		
20mm Ø, Female Threaded, Elbow	4	piece		
Valves and Appurtenances				
20mmØ PPR Gate Valve	1	piece		
20mm Ø Check Valve	1	piece		
Fixtures				
Bidet with Complete Accessories, Stainless (Water Efficient)	1	set		
Floor Drain, 100mm x 100mm, Stainless		piece		
Grease Trap, 5GPM, Stainless		set		
		set		
		set		
		set		
Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water		set		
		set		
		-		
Accessories				
Angle Valve, Single Way, Stainless Steel	2	piece		
Miscellaneous & Consumables				
400cc Solvent Cement	3	can		
		+ ·		
-				
			MATERIALS COST-D	₽
			1	•
				₽
			DIRECT COST-D	I
ELECTRICAL WORKS				
	+			
	25	piece	₽	₽
		-		<u> </u>
		· ·		
	20	niece		
		-		
		-		
	20mm Ø, Tee Equal 20mm Ø, Female Threaded, Elbow Valves and Appurtenances 20mmØ PPR Gate Valve 20mmØ Check Valve Fixtures Bidet with Complete Accessories, Stainless (Water Efficient) Floor Drain, 100mm x 100mm, Stainless Grease Trap, 5GPM, Stainless Hose Bibb, Lever-Type, Stainless, Heavy-Duty (Water Efficient) Kitchen Faucet Lever Type, Stainless (Water Efficient) Kitchen Sink, Single Tub, Stainless Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient) Kitchen Sink, Single Tub, Stainless Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient) Lavatory, Wall-Hung Water Closet, Kiddy, Tank-Type (Water Efficient) Soap Holder, Ceramic Tissue Holder, Ceramic Urinal, Flush Valve-Type, Kiddy (Water Efficient) Accessories Angle Valve, Single Way, Stainless Steel Angle Valve, Two Way, Stainless Steel Flexible Hose, Stainless Steel	20mm Ø, Tee Equal 6 20mm Ø, Female Threaded, Elbow 4 Valves and Appurtenances 1 20mm Ø PPR Gate Valve 1 20mm Ø Check Valve 1 Fixtures 1 Bidet with Complete Accessories, Stainless (Water Efficient) 1 Floor Drain, 100mm x 100mm, Stainless 2 Grease Trap, 5GPM, Stainless, Heavy-Duty (Water Efficient) 3 Kitchen Faucet Lever Type, Stainless (Water Efficient) 1 Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient) 1 Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient) 1 Lavatory, Wall-Hung 1 Water Closet, Kiddy, Tank-Type (Water Efficient) 1 Soap Holder, Ceramic 1 Urinal, Flush Valve-Type, Klainless Steel 2 Angle Valve, Single Way, Stainless Steel 1 Flexible Hose, Stainless Steel 3 Miscellaneous & Consumables 2 400cc Solvent Cement 3 411 2 Waste Cloth 2 ELECTRICAL WORKS 2 Roughing-ins 2 20mmØ PVC Pipe <td>20mm Ø, Tee Equal 6 piece 20mm Ø, Female Threaded, Elbow 4 piece Valves and Appurtenances 1 piece 20mm Ø PPR Gate Valve 1 piece 20mm Ø Check Valve 1 piece Fixtures 1 set Bidet with Complete Accessories, Stainless (Water Efficient) 1 set Floor Drain, 100mm x 100mm, Stainless 2 piece Grease Trap, 5GPM, Stainless, Heavy-Duty (Water Efficient) 3 set Hose Bibb, Lever-Type, Stainless, Heavy-Duty (Water Efficient) 1 set Lavatory Faucet, LeverType, Stainless, Heavy-Duty (Water Efficient) 1 set Lavatory, Wall-Hung 1 set set Water Closet, Kiddy, Tank-Type (Water Efficient) 1 set Water Closet, Kiddy, Tank-Type (Water Efficient) 1 set Accessories </td> <td>20mm Ø, Tee Equal 6 piece 20mm Ø, Female Threaded, Elbow 4 piece 20mm Ø PR Gate Valve 1 piece 20mm Ø Check Valve 1 piece 20mm Ø Check Valve 1 piece 20mm Ø Check Valve 1 piece Bidet with Complete Accessories, Stainless (Water Efficient) 1 set Floor Drain, 100mm x 100mm, Stainless 2 piece Grease Trap, 5GPM, Stainless (Water Efficient) 3 set Hose Bibb, Lever-Type, Stainless (Water Efficient) 1 set Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient) 1 set Lavatory, Wall-Hung 1 set set Lavatory, Wall-Hung 1 set set Vater Closet, Kiddy, Tank-Type (Water Efficient) 1 set set Soap Holder, Ceramic 1 set set set Urinal, Flush Valve-Type, Kiddy (Water Efficient) 1 set set Angle Valve, Single Way, Stainless Steel 2 piece set Miscellaneous & Consumables </td>	20mm Ø, Tee Equal 6 piece 20mm Ø, Female Threaded, Elbow 4 piece Valves and Appurtenances 1 piece 20mm Ø PPR Gate Valve 1 piece 20mm Ø Check Valve 1 piece Fixtures 1 set Bidet with Complete Accessories, Stainless (Water Efficient) 1 set Floor Drain, 100mm x 100mm, Stainless 2 piece Grease Trap, 5GPM, Stainless, Heavy-Duty (Water Efficient) 3 set Hose Bibb, Lever-Type, Stainless, Heavy-Duty (Water Efficient) 1 set Lavatory Faucet, LeverType, Stainless, Heavy-Duty (Water Efficient) 1 set Lavatory, Wall-Hung 1 set set Water Closet, Kiddy, Tank-Type (Water Efficient) 1 set Water Closet, Kiddy, Tank-Type (Water Efficient) 1 set Accessories	20mm Ø, Tee Equal 6 piece 20mm Ø, Female Threaded, Elbow 4 piece 20mm Ø PR Gate Valve 1 piece 20mm Ø Check Valve 1 piece 20mm Ø Check Valve 1 piece 20mm Ø Check Valve 1 piece Bidet with Complete Accessories, Stainless (Water Efficient) 1 set Floor Drain, 100mm x 100mm, Stainless 2 piece Grease Trap, 5GPM, Stainless (Water Efficient) 3 set Hose Bibb, Lever-Type, Stainless (Water Efficient) 1 set Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient) 1 set Lavatory, Wall-Hung 1 set set Lavatory, Wall-Hung 1 set set Vater Closet, Kiddy, Tank-Type (Water Efficient) 1 set set Soap Holder, Ceramic 1 set set set Urinal, Flush Valve-Type, Kiddy (Water Efficient) 1 set set Angle Valve, Single Way, Stainless Steel 2 piece set Miscellaneous & Consumables

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	50mm x 100mm PVC Utility Box	9	piece		
	100mm x 100mm PVC Junction Box with Cover	13	piece		
	Wires and Cables				
	3.5mm ² THHN Wire	160	l.m.		
	Lighting Fixtures (Energy Efficient)				
	18W LED Bulb	1	piece		
	E27 Receptacle	1	piece		
	300mm x 1200mm, 1 x 18w LED, Troffer Type,	8	set		
	with Complete Accessories				
	Wiring Devices and Other Fixtures				
	Aircon Outlet, Multipurpose outlet 250V/20A	1	set		
	Ground Fault Circuit Interrupter Outlet 250V/20A	1	set		
	Orbit Fan with Selector Switch	4	set		
	Outlet with Grounding, Two-Gang	4	set		
	Switch with Plate and Cover, One-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	₽
				MATERIALS COST III	₽
				LABOR COST III	
				DIRECT COST III	₽

ITEM NO.		& SCOPE OF WORKS	TOTAL COST
- = =	GENERAL REQUIREMENTS CONSTRUCTION OF HAND WASHING FACILITY REHABILITATION OF DAY CARE CENTER		₽
	E: Overf	TOTAL DIRECT COST ead, Contingencies and Miscellaneous Expenses (OCM) Profit VAT TOTAL ESTIMATED COST	

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT : PROPOSED REHABILITATION OF PINGKIAN III ZON E 2 DAY CARE CENTER

LOCATION : BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00009

SCOPE OF WORK :

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

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	P
	Clearing, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	31	sq.m.		
	Temporary Enclosure Around the Construction Area (h= 2.4m)	13	l.m.		
				DIRECT COST I	₽
11	SITE WORKS				
	Removal Works				
	Removal of Dilapidated Door	2	set	₽	₽
	Removal of Dilapidated Gate	1	set		
	Removal of Dilapidated Window	5	sq.m.		
	Removal of Tiles	45	sq.m.		
	Removal of Ceiling	60	sq.m.		
	Removal of Roofing and Accessories	62	sq.m.		
	Removal of Water Closet	1	set		
	Removal of Lavatory	1	set		
	Removal of Urinal	1	set		
	Removal of Hanging Cabinet	1	sq.m.		
	Cleaning and Clearing for Painting Preparation	111	sq.m.		
				DIRECT COST II	₽
	CIVIL / STRUCTURAL WORKS				-
	Masonry Works				
	100mm CHB Wall Laying, including mortar, reinforcement and two-face plastering Metal Works	2	sq.m	₽	P

NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Gate				
	12mm Square Bar	38	kg		
	50mm Ø X 4mm Round Bar	78	kg		
	38mm Ø Barrel Bolt	1	set		
	38mmØ Double Foot Bolt	1	set		
	Cylindrical Hinge, Heavy Duty	6	piece		
	Window Screen				
	Stainless Steel Mosquito Screen with Complete Framing	4	sq.m		
	Miscellaneous & Consumables				
	Acetylene Tank (Refill)	1	tank		
	Cut Off Blade	5	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	1	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-painted G.I. Rib Type Roofing	65	sq.m.		
	Pre-painted G.I. End Flashing	26	I.m.		
	Pre-Painted G.I.Ridge Roll	10	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	26	I.m.		
	6mm Thk One-sided Aluminum Foil Thermal Insulation	65	sq.m.		
	Tekscrew	108	piece		
	Blind Rivets	132	piece		
	Silicon Sealant	5	tube		
	Glicon Gediant	5		MATERIALS COST III	₽
				LABOR COST III	1
				DIRECT COST III	₽
					-
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping Preparation of Tile Works	31		₽	
			SO III		7
			sq.m	Г	P
	300mm x 300mm Non-Skid Homogeneous Tiles	3	sq.m		P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles				P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes	3 29	sq.m sq.m		P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles	3	sq.m		
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works	3 29 8	sq.m sq.m sq.m		
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles	3 29	sq.m sq.m		
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works	3 29 8	sq.m sq.m sq.m	Materials Cost	
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works	3 29 8	sq.m sq.m sq.m	Materials Cost Labor Cost	P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works	3 29 8	sq.m sq.m sq.m	Materials Cost	
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works	3 29 8	sq.m sq.m sq.m	Materials Cost Labor Cost	P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works 6mm thk Fiber Cement Board including Metal Framing	3 29 8 63 63	sq.m sq.m sq.m sq.m	Materials Cost Labor Cost Subtotal	P P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works 6mm thk Fiber Cement Board including Metal Framing 6mm thk Fiber Cement Board including Metal Framing Installation of Doors D1 - (0.80m x 2.10m) Swing Type Panel Door Painted Finish	3 29 8 63 	sq.m sq.m sq.m sq.m	Materials Cost Labor Cost	P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works 6mm thk Fiber Cement Board including Metal Framing 6mm thk Fiber Cement Board including Metal Framing 1 Installation of Doors D1 - (0.80m x 2.10m) Swing Type Panel Door Painted Finish D2 - (0.60m x 2.10m) Swing Type PVC Door	3 29 8 63 63	sq.m sq.m sq.m sq.m	Materials Cost Labor Cost Subtotal	P P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works 6mm thk Fiber Cement Board including Metal Framing 6mm thk Fiber Cement Board including Metal Framing 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 29 8 63 	sq.m sq.m sq.m sq.m	Materials Cost Labor Cost Subtotal	P P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works 6mm thk Fiber Cement Board including Metal Framing 6mm thk Fiber Cement Board including Metal Framing 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 29 8 63 	sq.m sq.m sq.m sq.m sq.m sq.m	Materials Cost Labor Cost Subtotal	P P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works 6mm thk Fiber Cement Board including Metal Framing 6mm thk Fiber Cement Board including Metal Framing 1 1 1 1 1 1 1 1 1 1 1 2 2 1 0.80m x 2.10m) Swing Type Panel Door Painted Finish D2 - (0.60m x 2.10m) Swing Type PVC Door Painted Finish (Kitten White) w/ 400mm X 300mm Louver Door jamb D1 - (0.80m x 2.10m) Swing Type Panel Door	3 29 8 63 	sq.m sq.m sq.m sq.m	Materials Cost Labor Cost Subtotal	P P
	300mm x 300mm Non-Skid Homogeneous Tiles 600mm x 600mm Non-Skid Homogeneous Tiles Wall Finishes 300mm x 300mm Homogeneous Tiles Ceiling Works 6mm thk Fiber Cement Board including Metal Framing 6mm thk Fiber Cement Board including Metal Framing 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 29 8 63 	sq.m sq.m sq.m sq.m sq.m sq.m	Materials Cost Labor Cost Subtotal	P P

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Installation of Windows	1			
	W1 -(1.20m x 1.20m) Sliding Window, 6mm Thk,	2	set		
	Clear Tempered Glass White Color Powder Coated Aluminum				
	Frame with Complete Accessories				
	W2 -(0.60m x 0.40m) Awning Window, 6mm Thk,	1	set		
	Clear Tempered Glass White Color Powder Coated Aluminum				
	Frame with Complete Accessories				
				Materials Cost	P
				Labor Cost	
				Subtotal	₽
	Painting Works				
	Flat Latex Paint Finish				
	Ceiling	63	sq.m	₽	₽
	Interior Wall	75	sq.m		
	Epoxy Enamel Paint Finish (Metal Surfaces)	2	sq.m		
	Fabricated Materials				
	Hanging Cabinet	3	sq.m		
	Standing Cabinet (Day Care Center)	5	sq.m		
	Under Counter Cover (Aluminum)	3	l.m.		
	Letterings				
	200mm Stainless Steel Lettering	29	set		
	"PINGKIAN III ZONE 2 DAY CARE CENTER"				
				Material Cost	₽
				Labor Cost	
				Subtotal	₽
	Cleaning and Re-touching of Painting with Simple Design	42	sq.m	₽	₽
				Subtotal	₽
				MATERIALS COST IV	₽
				LABOR COST IV	
				DIRECT COST IV	₽
۷	SANITARY / PLUMBING WORKS				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	2	piece	₽	₽
	75 mm Ø, PVC Pipe with Hub	4	piece		
	100mm Ø, PVC Pipe with Hub	3	piece		
	50mm Ø, P-Trap	4	piece		
	75mm Ø, P-Trap	1	piece piece		
	Form Ø 1/9 Band		DIECE	1	1
	50mm Ø, 1/8 Bend	19			
	75mm Ø, 1/8 Bend	5	piece		
	75mm Ø, 1/8 Bend 75mm Ø, 1/4 Bend	5 2	piece piece		
	75mm Ø, 1/8 Bend 75mm Ø, 1/4 Bend 75mm Ø x 50mm Ø, Tee	5 2 2	piece piece piece		
	75mm Ø, 1/8 Bend 75mm Ø, 1/4 Bend	5 2	piece piece		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	100mm Ø x 75mm Ø, Wye	1	piece		
	50mm Ø, Cleanout with Adapter	1	piece		
	100mm Ø, Cleanout with Adapter	1	piece		
	50mm Ø No Hub Coupling	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	3	piece		
	20mm Ø, Elbow	11	piece		
	20mm Ø, Coupling	3	piece		
	20mm Ø, Tee Equal	7	piece		
	20mm Ø, Female Threaded, Tee	7	piece		
	Valves and Appurtenances				
	20mm Ø Gate Valve, PPR	1	piece		
	20mm Ø Check Valve	1	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm, Stainless	1	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever Type, Stainless, Heavy Duty (Water Efficient)	6	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy-Duty (Water Efficient)	1	set		
	Lavatory, Faucet, Lever Type, Stainless Heavy Duty (Water Efficient)	1	set		
	Lavatory, Kiddy, Wall Hung	1	set		
	Soap Holder, Ceramic	1	set		
	Tissue Holder, Ceramic	1	set		
	Urinal, Flush Valve-Type, Kiddy(Water Efficient)	1	set		
	Water Closet, Tank-Type, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single Way, Stainless Steel	3	piece		
	Angle Valve, Two Way, Stainless Steel	1	piece		
	Flexible Hose, Stainless Steel	4	piece		
	Miscellaneous & Consumables		P.000		
	400cc Solvent Cement	3	can		
	All Around Sealant	3	can		
	Hacksaw Blade	2	piece		<u> </u>
	Teflon Tape	2	roll		<u> </u>
	Waste Cloth	2	kg		
				MATERIALS COST V	₽
		1		LABOR COST V	•
				DIRECT COST V	₽
VI	ELECTRICAL WORKS				
	Roughing-ins				
	20mmØ PVC Pipe	25	piece	₽	ŧ
	25mmØ PVC Pipe	25	piece		
	32mmØ PVC Pipe	6	piece		
	15mmØ PVC Flexible Hose	80	l.m.		
_	Fittings and Accessories				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	20mmØ PVC Adaptor	30	piece		
	20mmØ PVC Locknut & Bushing	30	piece		
	25mmØ PVC Adaptor	30	piece		
	25mmØ PVC Locknut & Bushing	30	piece		
	32mmØ PVC Adaptor	2	piece		
	32mmØ PVC Elbow	2	piece		
	32mmØ PVC Locknut & Bushing	2	piece		
	50mm x 100mm PVC Utility Box	12	piece		
	100mm x 100mm PVC Junction Box with Cover	15	piece		
	Wires and Cables				
	3.5mm ² THHN Wire	320	l.m.		
	5.5mm ² THHN Wire	60	l.m.		
	8.0mm ² THHN Wire	40	l.m.		
	2.0mm ² TW Wire	160	l.m.		
	3.5mm ² TW Wire	30	l.m.		
	5.5mm ² TW Wire	20	l.m.		
	Lighting Fixtures (Energy Efficient)	20			
	18W LED Bulb	5	set		
	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete	Ŭ			
	Accessories	7	set		
	E27 Receptacle	5	set		
	Wiring Devices and Other Fixtures	_			
	Aircon Outlet, Multipurpose outlet 250V/20A	1	set		
	Ground Fault Circuit Interrupter Outlet 250V/20A	1	set		
	Orbit Fan with Selector Switch	5	set		
	Outlet with Grounding, Two Gang	3	set		
	Switch with Plate and Cover, One Gang	2	set		
	Switch with Plate and Cover, Three Gang	1	set		
	Panelboard				
	LPP				
	Main: 40AT, 100AF, 2P, 230V, 25 KAIC, MCCB	1	ass.		
	Branches: 2-30AT, 2P, 230V, BOLT-ON				
	2-20AT, 2P, 230V, BOLT-ON				
	Enclosure: Recessed NEMA 1 w/ Ground Terminals				
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Electrical Tape	6	roll		
	Hacksaw Blade	2	piece		
	Torch with Butane	1	set		
				MATERIALS COST VI	₽
				LABOR COST VI	•
				DIRECT COST VI	₽

ITEM NO	WORK DESCRIPTION & SCOPE OF WO	RKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS					₽
Ш	SITE WORKS					
Ш	CIVIL / STRUCTURAL WORKS					
IV	ARCHITECTURAL WORKS					
V	SANITARY / PLUMBING WORKS					
VI	ELECTRICAL WORKS					
					TOTAL DIRECT COST	
NOT		vorbood Conting	oncios and		eous Expenses (OCM)	
NOTE	<u>-</u> : 0	renieau, conting		INISCEIIAN	Profit	
. Ctrie	the enforce Llegith Drotocole relative to the				VAT	
	ctly enforce Health Protocols relative to the est applicable DPWH Memorandum				VAI	
iate				тот	AL ESTIMATED COST	₽

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF PINGKIAN III ZONE 3 DAY CARE CENTER

LOCATION : BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00009

SCOPE OF WORK :

- I. GENERAL REQUIREMENTS
- A General Requirements include temporary enclosure, billboard, scaffolding, construction safety and health, and clearing, hauling and disposal of construction materials and debris.
- II. CONSTRUCTION OF HAND WASHING FACILITY
- A Installation of single sink portable hand washing facility.
- B Site Works include chipping of floor.
- C Civil/ Structural Works include restoration of concrete flooring.
- D Sanitary/ Plumbing Works include installation of roughing-ins, and accessories.
- **III. REHABILITATION OF DAY CARE**
- A Site Works include removal works, application of termite treatment, cleaning and clearing for painting preparation.
- B Civil/ Structural Works include masonry works, moisture protection, metal works and roofing works.
- C Architectural Works include floor finishes, wall finishes, ceiling works, installation of doors and windows, painting works, fabricated materials and letterings.
- D Sanitary/ Plumbing Works include installation of roughing-ins, equipment, fixtures and accessories.
- E Electrical Works include installation of roughing-Ins, wirings, devices, fixtures, panelboard and accessories.
- IV. REHABILITATION OF STAGE
- A Site Works include removal works and earthworks.
- B Civil/ Structural Works include concrete works, masonry works, moisture protection, metal works and roofing works.
- C Architectural Works include floor finishes and painting works.
- V. TESTING AND COMMISSIONING

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	11	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	222	sq.m.		
	Temporary Enclosure Around the Construction Area (h=2.4m)	21	l.m.		
				DIRECT COST I	₽
II	CONSTRUCTION OF HAND WASHING FACILITY				
Α	Hand Washing Facility				
	Single Sink Portable Hand Washing Stall	4	unit	P	₽
				Direct Cost A	₽
В	Site Works				
	Chipping of Floor (Plumbing / Sanitary Works)	3	sq.m.	P	₽
				Direct Cost B	₽

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
С	Civil/ Structural Works				
U	Restoration of Concrete Floor (Sanitary/ Plumbing Works)	3	sq.m.	₽	₽
	Restoration of concrete hoor (Sanitary, Flumbing Works)	0	<u> </u>	Materials Cost C	' ₽
				Labor Cost C	1
				Direct Cost C	₽
				Direct Cost C	
D	Sanitary/ Plumbing Works				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	5	piece	₽	₽
	50mm Ø, P-Trap	4	piece		
	50mm Ø, 1/8 Bend	11	piece		
	50mmØ x 50mmØ, Wye	1	piece		
	100mm Ø x 50mm Ø, Wye	1	piece		
-	50mm Ø, Cleanout with Adapter	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, Pipe PPR	4	piece		
	20mm Ø, Coupling	4	piece		
	20mm Ø, Elbow	2	piece		
	20mm Ø, Tee Equal	4	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	₽
	REHABILITATION OF DAY CARE CENTER				
A	Site Works				
	Removal Works				
	Removal of Ceiling	72	sq.m.	₽	₽
	Removal of Door	4	set		
	Removal of Masonry Wall	6	sq.m.		
	Removal of Tiles	64	sq.m.		
	Removal of Roofing and Accessories	73	sq.m.		
	Removal of Window	6	sq.m.		
	Removal of Water Closet	1	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Chipping of Floor (Plumbing and Electrical Works)	15	sq.m.		
	Clearing and Cleaning for Painting Preparation	203	sq.m.		
				Subtotal	P
	Termite Treatment	5	gal	₽	₽
				Materials Cost	P
				Labor Cost	
				Subtotal	P
				Materials Cost A	₽
				Labor Cost A	
				Direct Cost A	₽
В	Civil/ Structural Works				
	Masonry Works				
	Restoration of Concrete (Plumbing and Electrical	15	sq.m.	₽	₽
	Moisture Protection				
	Cementitious Capillary Type	1	sq.m.		
	Metal Works		•		
	Gate 1				
	50mmØ G.I. Pipe, sch. 40	61	kg		
	38mm x 38mm x 4mm Angle Bar	163	kg		
	Cylindrical Hinges, Heavy Duty	6	piece		
	38mmØ Barrel Bolt	1	set		
	38mmØ Foot Bolt	1	set		
	Miscellaneous & Consumables	•			
	Assorted Metal Drill Bit	5	piece		
	Cut Off Blade	2	piece		
	Grinding Disc for Metal	4	piece		
	Welding Rod	1	box		
	Roofing Works		DOX		
	Pre-painted G.I. Rib Type Roofing	77	sq.m.		
	Pre-painted G.I. End Flashing	37	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	37	I.m.		
	6mm Thk One-sided Aluminum Foil Thermal Insulation	77	sq.m.		
	Tekscrew	317	piece		
	Blind Rivets	187	-		
	Silicon Sealant	5	piece		
	SIIICUII Sealant	Э	tube	Materials Cost B	₽
				Labor Cost B	
				Direct Cost B	₽
				Direct Cost B	
_	A rehite sturol Marka				
С	Architectural Works				
	Floor Finishes				
	400mm x 400mm Non-Skid Homogeneous Floor Tiles	6	sq.m.	₽	P
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	62	sq.m.		
	Floor Topping For Preparation of Tiles Works	68	sq.m.		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Wall Finishes				
	400mm x 400mm Homogenous Wall Tiles	19	sq.m.		
	Ceiling Finishes		•		
	6mm Thk Fiber Cement Board Including Metal Framing	76	sq.m.		
			•	Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Installation of Doors				
	D1 - (0.9m x 2.10m) Panel Door	1	set	₽	P
	D2 - (0.8m x 2.10m) Panel Door	1	set		
	D3 - (0.6m x 2.10m) Panel Door	1	set		
	D4- (0.60m x 2.10m) PVC Door with Louver	1	set		
	Door Jambs	•			
	D1 - (0.9m x 2.10m) Panel Door	1	set		
	D2 - (0.8m x 2.10m) Panel Door	1	set		
	D3 - (0.6m x 2.10m) Panel Door	1	set		
	Hardwares and Accessories	I	561		
		12	oot		
	Door Hinges, Heavy Duty, Stainless		set		
	Door Knob, Lever Type, Stainless	4	set		
	Installation of Windows				
	W1 - (2.4m x 1.1m) Sliding Window Powder Coated Aluminum Framed Window	1	set		
	W2 - (1.4m x 0.9m) Sliding Window Powder Coated Aluminum Framed Window	1	set		
	W3 - (1.2m x 0.7m) Sliding Window Powder Coated Aluminum Framed Window	1	set		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Fabricated Materials				
	Book Shelf (2.5m x 2.1m)	6	l.m.	₽	₽
	Hanging Cabinet (2m x 0.8m)	2	sq.m.		
	Standing Cabinet (2.5m x 1.2m)	4	sq.m.		
	Countertop with Aluminum Cover	6	I.m.		
	Painting Works				
	Epoxy Enamel Paint Finish (Steel Surfaces)	14	sq.m.		
	Elastomeric Paint Finish (Exterior Walls)	95	sq.m.		
	Flat Latex Paint Finish				
	Interior Walls	43	sq.m.		
	Ceiling	76	sq.m.		
—			54	Materials Cost	₽
—				Labor Cost	·
—				Subtotal	₽
—				Gubiolai	
	Letterings				
	200mm Stainless Steel Lettering	29	set	₽	₽
				Materials Cost	₽

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL 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 Pipe PVC with Hub	2	piece	₽	₽
	75 mm Ø Pipe PVC with Hub	7	piece		
	100mm Ø, Pipe PVC with Hub	7	piece		
	50mm Ø, P-Trap	4	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	23	piece		
	75mm Ø, 1/8 Bend	5	piece		
	100mm Ø, 1/8 Bend	3	piece		
	75mm Ø, 1/4 Bend	2	piece		
	75mm Ø x 75mm Ø, Tee	2	piece		
	100mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 50mm Ø, Wye	5	piece		
	100mmØ x 75mmØ, Wye	1	piece		
	100mm Ø x 100mm Ø, Wye	1	piece		
	100mm Ø, Cleanout with Adapter	2	piece		
	50 mm Ø No Hub Coupling	2	piece		
	Waterline System	2	piece		
	Roughing-Ins				
	20mm Ø PPR Pipe	7	niana		
	20mm Ø, Elbow	12	piece		
	-		piece		
	20mm Ø, Coupling	7 9	piece		
	20mm Ø, Tee Equal	-	piece		
	20mm Ø, Female Threaded, Tee	4	piece		
	Valves and Appurtenances				
	20mm Ø Gate Valve, PPR	1	piece		
	20mm Ø Check Valve	1	piece		
	Fixtures				
	100mm x 100mm Floor Drain, Stainless	2	piece		
	Bidet with Complete Accessories, Stainless (Water Efficient)	1	set		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever-Type, Stainless, Heavy-Duty (Water	6	set		
	Kitchen Sink Faucet, Stainless, Heavy-Duty (Water Efficient)	1	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Lavatory Faucet, Lever-Type, Stainless, Heavy-Duty (Water Efficient)	1	set		
	Lavatory, Wall-Hung	1	set		
	Soap Holder, Ceramic	1	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Tissue Holder, Ceramic	1	set		
	Urinal, Kiddie, Flush Valve-Type (Water Efficient)	1	set		
	Water Closet, Tank Type w/ Accessories, Kiddie (Water	1	set		
	Accessories				
	Angle Valve, Single Way, Stainless	3	piece		
	Angle Valve, Two Way, Stainless	1	piece		
	Flexible Hose, Stainless Steel	4	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	4	can		
	All-Around Sealant	4	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	2	rolls		
	Waste Cloth	2	kgs		
				Materials Cost D	₽
				Labor Cost D	
				Direct Cost D	₽
Е	Electrical Works				
	Roughing-ins				
	20mmØ PVC Pipe	20	piece	₽	₽
	25mmØ PVC Pipe	20	piece		
	15mmØ PVC Flexible Hose	90	l.m.		
	Fittings and Accessories				
	20mmØ PVC Adaptor	40	piece		
	20mmØ PVC Locknut & Bushing	40	piece		
	25mmØ PVC Adaptor	40	piece		
	25mmØ PVC Locknut & Bushing	40	piece		
	50mm x 100mm PVC Utility Box	15	piece		
	100mm x 100mm PVC Junction Box with cover	20	piece		
	Wires and Cables				
	3.5mm ² THHN Wire	360	l.m.		
	Lighting Fixtures (Energy Efficient)				
	18W LED Bulb	1	piece		
	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories	9	piece		
	E27 Receptacle	1	piece		
	Outdoor Waterproof Pillar Light Ball Shape	2	piece		
	T8, 18w LED Tube light, Box type	5	piece		
	Wall Mounted Lighting	4	piece		
	Wiring Devices and Other Fixtures				
	Ground Fault Circuit Interrupter Outlet 250V/20A	1	set		
	Orbit Fan with Selector Switch	6	set		
	Outlet with Grounding, Two Gang	6	set		
	Switch with Plate and Cover, Single Gang	2	set		
	Switch with Plate and Cover, Two Gang	1	set		
	Switch with Plate and Cover, Three Gang	1	set		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	Electrical Tape	8	roll		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Hacksaw Blade	2	piece		
	Torch with Butane	1	set		
				Materials Cost E	₽
				Labor Cost E	
				Direct Cost E	P
				MATERIALS COST III	₽
				LABOR COST III	
				DIRECT COST III	₽
IV	REHABILITATION OF STAGE				
Α	Site Works				
	Removal Works				
	Removal of Roofing and Accessories	52	sq.m.	₽	₽
	Removal of Concrete Slab	21	sq.m.		
	Chipping of Floor (Electrical Works)	3	sq.m.		
	Layout and Staking	50	sq.m.		
	Site Clearing and Preparation	50	sq.m.		
	Excavation for Structures	7	cu.m.		
	Gravel Bedding	1	cu.m.		
	Soil Protection	9	sq.m.		
	Imported Earthfill	4	cu.m.		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Backfill and Compaction	6	cu.m.	₽	₽
				Subtotal	₽
				Materials Cost A	₽
				Labor Cost A	
				Direct Cost A	₽
В	Civil/ Structural Works				
	Concrete Works				
	On-Site Mix Concrete, 21MPa, 3/4" Gravel @ 28 days				
	Column Footing	2	cu.m.	₽	₽
	Wall Footing	2	cu.m.		
	Column Pedestal	1	cu.m.		
	Slab on Fill	2	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar including G.I. Tie				
	10mm Ø Wall Footing	11	kg		
	10mm Ø Column Pedestal	52	kg		
	10mm Ø Slab	63	kg		
	12mm Ø Wall Footing	25	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie				

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	16mm Ø Column Footing	144	kg		
	16mm Ø Column Pedestal	85	kg		
	Formworks				
	Column Footing	9	sq.m.		
	Column Pedestal	9	sq.m.		
	Slab on Fill	2	sq.m.		
	Wall Footing	6	sq.m.		
	Scaffolding and Shoring				
	Column Pedestal	2	l.m.		
	Masonry Works				
	Restoration of Concrete (Electrical Works)	3	sq.m.		
	Thermal Protection				
	Vapor Barrier	31	sq.m.		
	Metal Works				
	Steel Canopy				
	100mmø G.I. Pipe, Sch. 40	398	kg		
	200mm x 200mm x 4mm Base Plate	11	kg		
	4mm Wing Plate	9	kg		
	50mm x 6mm Angle Bar	441	kg		
	50mm x 100mm x 1.2mm C-Purlins	170	kg		
	10mmø Sagrod	45	kg		
	16mmØ x 200mm Anchor Bolt	32	piece		
	Miscellaneous & Consumables				
	Assorted Metal Drill Bit	5	piece		
	Cut Off Blade	2	piece		
	Grinding Disc for Metal	4	piece		
	Welding Rod	1	box		
	Roofing Works				
	Pre-Painted G.I. Rib Type Roofing	54	sq.m.		
	Pre-Painted G.I. End Flashing	22	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	33	I.m.		
	6mm Thk One-sided Aluminum Foil Thermal Insulation	54	sq.m.		
	Tekscrew	258	piece		
	Blind Rivets	109	piece		
	Silicon Sealant	5	tube		
	Shiton Scalan	0	1000	Materials Cost B	 ₽
				Labor Cost B	•
				Direct Cost B	₽
С	Architectural Works				
	Floor Finishes				
	Plain Cement Finish	20	sq.m.	P	₽
	Painting Works				
	Epoxy Enamel Paint Finish (Steel Surfaces)	54	sq.m.		
	Elastomeric Paint Finish (Exterior Walls)	5	sq.m.		
	× /			Materials Cost C	₽ ₽
				Labor Cost C	
				Direct Cost C	₽

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				MATERIALS COST IV	₽
				LABOR COST IV	
				DIRECT COST IV	₽

ITEM NO	WORK DESCRIPTION AND SC	TOTAL COST	
 V	GENERAL REQUIREMENTS CONSTRUCTION OF HAND WASHING FACILITY REHABILITATION OF DAY CARE CENTER REHABILITATION OF STAGE		₽
NOT •	E: Strictly enforce health protocols relative to the latest applicable DPWH memorandum Availability/ legality of the site shall be the responsibility of the end-user / barangayofficial and a requirement prior to bidding	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 CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF CENTERVILLE DAY CARE CENTER

LOCATION : BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00009

SCOPE OF WORK :

I GENERAL REQUIREMENTS

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

- II CONSTRUCTION OF HAND WASHING FACILITY
 - 1.) Supply and installation of single sink portable hand washing facility.
 - 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 works, metal works, window screen, and roofing works.
 - 3.) Architectural Works include floor, wall and ceiling finishes, painting works, installation of doors and windows, and letterings.
 - 4.) Sanitary/Plumbing Works include installation of roughing-ins, fixtures and accessories.
 - 5.) Electrical Works include installation of roughing-ins, wirings, fixtures 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
Ι	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	₽
	Clearing, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	102	sq.m.		
	Temporary Enclosure around the Construction Area (H=2.4m)	50	l.m.		
				DIRECT COST I	P
Ш	CONSTRUCTION OF HAND WASHING FACILITY				
А	Hand Washing Facility				
	Single Sink Portable Hand Washing Facility	3	unit	₽	P
				Direct Cost A	₽
В	Sanitary / Plumbing Works				
	Sanitary Line / Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	3	piece	₽	₽
	50mm Ø x 50mm Ø PVC 1/4 Bend	6	piece		
	Waterline System				
	25mm Ø PPR Pipe	5	piece		
	25mm Ø, Tee Equal	2	piece		
	25mm Ø x 25mm Ø PPR 90° Elbow	7	piece		
	25mm Ø PPR Coupling	2	piece		
	25mm Ø x 20mm Ø PPR Reducer	1	piece		
	25mm Ø, Union Patente	2	piece		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	32mm Ø x 25mm Ø PPR Reducer	1	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				
А	Site Works				
	Demolition / Removal Works				
	Chipping of Concrete (Electrical Works)	7	sq.m.	₽	₽
	Removal of Dilapidated Ceiling	32	sq.m.		
	Removal of Dilapidated Doors	2	set		
	Removal of Dilapidated Floor Drain	1	piece		
	Removal of Dilapidated Kitchen Sink	1	piece		
	Removal of Dilapidated Roofing	109	sq.m.		
	Removal of Dilapidated Tiles	32	sq.m.		
	Removal of Dilapidated Water Closet	1	piece		
	Removal of Dilapidated Windows	11	sq.m.		
	Clearing / Cleaning for Painting Preparation	393	sq.m.		
			- 1	Direct Cost A	₽
В	Civil Works / Structural Works				
_	Masonry Works				
	Restoration of Concrete (Electrical Works)	7	sq.m.	₽	₽
	Metal Works				
	Steel Gate				
	25mm x 4mm Thick Flat Bar	13	kg		
	50mmØ x 4mm Thick G.I. Pipe	9	kg		
	75mmØ x 4mm Thick G.I. Pipe	89	kg		
	50mm x 50mm x 6mmØ Wire Mesh	4	sq.m.		
	38mmØ Barrel Bolt	1	sq.m.		
	38mmØ Foot Bolt	1	set		
	Cylindrical Hinges, Heavy Duty, Stainless	6	piece		
	Steel Fence	0	Piece		
	25mm x 4mm Thick Flat Bar	64	kg		
	50mmØ x 4mm Thick G.I. Pipe	55	kg		
	75mmØ x 4mm Thick G.I. Pipe	347	kg		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	50mm x 50mm x 6mmØ Wire Mesh	31	sq.m.		
	Window Screen				
	Stainless Steel Mosquito Screen with Complete Framing	31	sq.m.		
	Miscellaneous & Consumables				
	Acetylene Tank Refill	1	tank		
	Cut Off Blade	1	piece		
	Grinding Disc Metal	1	piece		
	Oxygen tank Refill	2	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-Painted Rib-type G.I. Roofing	96	sq.m.		
	Pre-Painted G.I. End Flashing	68	l.m.		
	Pre-Painted G.I. Ridge Roll	21	l.m.		
	6mm thick One-Sided Aluminum Foil Thermal Insulation	96	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	31	I.m.		
	Blind Rivets	280	piece		
	Tekscrew	454	piece		
	Silicon Sealant	2	tube		
		<u> </u>		Material Cost B	₽
				Labor Cost B	•
				Direct Cost B	₽
				Direct Cost B	•
С	Architectural Works				
	Floor Finishes				
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	29	sq.m.	₽	₽
	300mm x 300mm Non-Skid Homogeneous Floor Tiles (Comfort Room)	3	sq.m.		
	Floor Topping for Tile Preparation	32	sq.m.		
	Wall Finishes				
	300mm x 300mm Homogeneous Wall Tiles	12	sq.m.		
	Ceiling Finishes				
	6mm Thick Fiber Cement Board including Metal Framing	32	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 Jambs				
	D1 - (2.10m x 0.90m) Panel Door	1	set		
	Hardwares and Accessories				
	Door Hinges, Heavy Duty Stainless	6	piece		
	Door Knob, Lever Type, Stainless	2	piece		
	Installation of Windows				
	W1 - (1.00m x 2.50m) Aluminum Framed Powder Coated Sliding Window	4	set		
	W2 - (0.40m x 0.50m) Aluminum Framed Powder Coated Awning Window	1	set		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Material Cost	₽
				Labor Cost	
				Subtotal	₽
	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)	68	sq.m.	₽	₽
	Epoxy Enamel Paint Finish (Steel Members)	223	sq.m.		
	Flat Latex Paint Finish				
	Interior Wall	59	sq.m.		
	Ceiling	32	sq.m.		
				Material Cost	₽
				Labor Cost	
				Subtotal	₽
	Cleaning and Re-Touching of Painting with Simple Design	67	sq.m.	P	₽
				Subtotal	₽
	Letterings				
	200mm Stainless Steel Lettering				
	"CENTERVILLE DAY CARE CENTER"	24	set	₽	₽
				Material Cost	₽
				Labor Cost	
				Subtotal	₽
				Material Cost C	₽
				Labor Cost C	
				Direct Cost C	₽
D	Sanitary / Plumbing Works				
	Sewer Line / Storm Drainage System				
	100mm Ø, PVC Pipe with Hub	5	piece	P	₽
	75mm Ø, PVC Pipe with Hub	3	piece		
	50mm Ø, PVC Pipe with Hub	5	piece		
	100mm Ø x 100mm Ø, Wye	2	piece		
	100mm Ø x 75mm Ø, Wye	2	piece		
	100mm Ø x 50mm Ø, Wye	2	piece		
	75mm Ø x 75mm Ø, Wye	1	piece		
	75mm Ø x 50mm Ø, Tee	3	piece		
	50mm Ø, 1/4 Bend	6	-		
	100mm Ø, 1/8 Bend	4	piece piece		
	75mm Ø, 1/8 Bend	3	piece		
	50mm Ø, 1/8 Bend Cleanout 100mm Ø	4	piece		
		1	piece		
	100mm Ø, P-Trap	1	piece		
	50mm Ø, P-Trap	1	piece		
	40mm Ø, P-Trap	1	piece		
	Coupling 100mm Ø	6	piece		
	Coupling 75mm Ø	3	piece		
	Waterline System				

TEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	25mm Ø, PPR Pipe	4	piece		
	25mm Ø, Tee Equal	1	piece		
	20mm Ø, Tee Equal	11	piece		
	20mm Ø, End Cap	11	piece		
	25mm Ø, 90 Deg Elbow	2	piece		
	20mm Ø, 90 Deg Elbow	24	piece		
	25mm Ø x 15mm Ø, Female Thread Tee	11	piece		
	25mm Ø, Coupling	4	piece		
	20mm Ø, Coupling	4	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, Heavy Duty with Accessories	1	set		
	Hose Bibb, Lever Type, Heavy Duty, Stainless Steel (Water	9	piece		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy Duty (Water Efficient)	1	set		
	Water Closet, Tank Type (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single-Way Stainless	1	piece		
	Angle Valve, Two-Way Stainless	1	piece		
	Flexible Hose, Stainless	2	piece		
	Miscellaneous & Consumables	2	p.000		
	400cc Solvent Cement	2	can		
	All-Around Sealant	1			
	Hacksaw Blade	3	can piece		
	Teflon Tape	3	roll		
	Waste Cloth	-			
	Waste Cloth	1	kg	Matarial Coat D	₽
				Material Cost D	
				Labor Cost D	Ð
				Direct Cost D	Г
	Electrical Works				
E					
	Roughing-ins			8	8
	20mmØ PVC Pipe	50	piece	P	₽
	Fittings and Accessories				
	20mmØ PVC Adaptor	66	piece		
	20mmØ PVC Flexible Tube	20	l.m.		
	20mmØ PVC Locknut	66	pair		
	50mm x 100mm PVC Utility Box	7	piece		
	100mm x 100mm PVC Junction Box with Cover	12	piece		
	100mm x 100mm PVC Utility Box (Pullbox)	5	piece		
	Wires and Cables				
	3.5mm ² THHN Wire	2	roll		
	3.5mm ² TW Wire	1	roll		
	Lighting Devices				
	600mm x 1200mm, 2 x 18w LED, Troffer Type, with Complete Accessories, Recessed Type	5	set		
-	T8, 18w LED Tube light	3	piece		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	T8, 18w LED Tube light, Box type	3	piece		
	100mm Ø Round Recessed Pinlight Case	1	piece		
	100mm Ø Round Recessed Pinlight LED 9W	1	piece		
	Wiring Devices and Other Fixtures				
	Orbit Fan with Selector Switch	3	set		
	Outlet with Grounding, Two Gang	4	piece		
	Switch With Plate and Cover, One Gang	1	piece		
	Switch With Plate and Cover, Three Gang	2	piece		
	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)	1	kg		
	Hacksaw Blade	5	piece		
	Masking Tape	1	roll		
	Pulling Lubricant	1	can		
	Rubber Tape	1	roll		
	Torch With Butane	3	set		
				Material Cost E	P
				Labor Cost E	
				Direct Cost E	P
				MATERIAL COST III	4
				LABOR COST III	
				DIRECT COST III	P

ITEM NO		WORK DESCRIPTION AND SCOPE OF WORKS				
	GENERAL REQUIREMEN CONSTRUCTION OF HAN REHABILITATION OF DAY	ID WASHING FACILITY	₽			
Prote appl	E: ictly enforce Health ocols relative to the latest icable DPWH norandum	TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM) Profit VAT	P			
		TOTAL ESTIMATED COST	₽			

BILL OF QUANTITIES (Building Construction/Rehabilitation Project)

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

LOCATION : BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 22 - 00009

SCOPE OF WORK :

I GENERAL REQUIREMENTS

1.) General Requirements include temporary facilities and utilities, billboard, construction safety and health, scaffolding, and clearing, hauling and disposal of construction materials and debris.

- II CONSTRUCTION OF HAND WASHING FACILITY
 - 1.) Supply and installation of single sink portable hand washing facility.

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, site clearing and preparations, layout and staking, and earthworks, cleaning and
- 2.) Civil / Structural Works include concrete works, masonry works, metal works, window screen, and roofing works.
- 3.) Architectural Works include floor, wall and ceiling finishes, painting works, installation of doors, and letterings.
- 4.) Sanitary/Plumbing Works include installation of roughing-ins, fixtures and accessories.
- 5.) Electrical Works include installation of roughing-ins, wirings, fixtures and accessories.
- 6.) Mechanical Works include installation of roughing-ins, equipment, fixtures and accessories.
- IV All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	₽
	Clearing, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	78	sq.m.		
	Temporary Enclosure around the Construction Area (H=2.4m)	30	I.m.		
				DIRECT COST I	P
11	CONSTRUCTION OF HAND WASHING FACILITY				
Α	Hand Washing Facility				
	Single Sink Portable Hand Washing Facility	1	unit	₽	₽
				Direct Cost A	P
В	Sanitary / Plumbing Works				
	Sanitary Line / Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	1	piece	₽	₽
	50mm Ø x 50mm Ø PVC 1/4 Bend	2	piece		
	Waterline System				
	25mm Ø PPR Pipe	2	piece		
	25mm Ø, Tee Equal	1	piece		
	25mm Ø x 25mm Ø PPR 90° Elbow	2	piece		
	25mm Ø PPR Coupling	2	piece		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	25mm Ø x 20mm Ø PPR Reducer	1	piece		
	25mm Ø, Union Patente	2	piece		
	32mm Ø x 25mm Ø PPR Reducer	1	piece		
	Valves & Appurtenances				
	20mm Ø PPR Gate Valve	1	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	1	piece		
	Teflon Tape	1	roll		
	Waste Cloth	1	kg		
				Material Cost B	₽
				Labor Cost B	
				Direct Cost B	₽
				MATERIAL COST II	₽
				LABOR COST II	
				DIRECT COST II	₽
Ш	REHABILITATION OF DAY CARE CENTER				
А	Site Works				
	Demolition / Removal Works				
	Chipping of Concrete (Electrical Works)	7	sq.m.	₽	P
	Demolition of CHB Wall	18	sq.m.		
	Demolition of Slab-On-Fill (Side)	1	sq.m.		
	Removal of Dilapidated Ceiling	39	sq.m.		
	Removal of Dilapidated Doors	2	set		
	Removal of Dilapidated Hose Bibb	6	piece		
	Removal of Dilapidated Kitchen Sink	1	piece		
	Removal of Dilapidated Roofing	46	sq.m.		
	Removal of Dilapidated Tiles	49	sq.m.		
	Removal of Dilapidated Water Closet	1	piece		
	Removal of Dilapidated Window	7	sq.m.		
	Clearing / Cleaning for Painting Preparation	271	sq.m.		
	Layout and Staking	9	sq.m.		
	Site Clearing and Preparation	9	sq.m.		
	Excavation for Structures	2	cu.m.		
				Subtotal	₽
	Gravel Bedding	1	cu.m.	₽	₽
	-			Material Cost	₽
				Labor Cost	
		1		Subtotal	₽
	Backfill and Compaction	2	cu.m.	₽	₽
				Subtotal	P
				20010101	
		1		Material Cost A	₽

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost A	
				Direct Cost A	₽
В	Civil Works / Structural Works				
	Concrete Works				
	On-Site Mix Concrete, 21MPa, 3/4" Gravel @ 28 days				
	Wall Footing	1	cu.m.	P	₽
	Slab-On-Fill	1	cu.m.		
	On-Site Mix Concrete, 28MPa, 3/4" Gravel @ 28 days				
	Column Footing	1	cu.m.		
	Column	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bars including G.I. Tie Wire #				
	16				
	10mmØ Slab-On-Fill	50	kg		
	10mmØ Column	17	kg		
	12mmØ Wall Footing	15	kg		
	Grade 60 Reinforcing Steel Bars including G.I. Tie Wire # 16				
	16mmØ Column Footing	32	kg		
	16mmØ Column	41	kg		
	Formworks				
	Column Footing	2	sq.m.		
	Wall Footing	2	sq.m.		
	Column	5	sq.m.		
	Scaffoldings / Shoring				
	Column	6	l.m.		
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	28	sq.m.		
	Restoration of Concrete (Electrical Works)	7	sq.m.		
	Metal Works				
	G1 (Main Gate)				
	50mm x 50mm x 4mm Tubular Bar	34	kg		
	25mm x 25mm x 4mm Tubular Bar	50	kg		
	38mmØ Barrel Bolt	1	set		
	38mmØ Foot Bolt	1	set		
	Cylindrical Hinges, Heavy Duty, Stainless	3	piece		
	Window Screen	_	1		
	Stainless Steel Mosquito Screen with Complete Framing	3	sq.m.		
	Miscellaneous & Consumables				
	Acetylene Tank Refill	1	tank		
	Cut Off Blade	1	piece		
	Grinding Disc Metal	1	piece		
	Oxygen tank Refill	1	tank		
	Welding Rod	1	box		
	Roofing Works		507		
	Pre-Painted Rib-type G.I. Roofing	51	sq.m.		
	Pre-Painted G.I. End Flashing	30	I.m.		

М Э.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	6mm thick One-Sided Aluminum Foil Thermal Insulation	51	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	15	l.m.		
	Blind Rivets	124	piece		
	Tekscrew	241	piece		
	Silicon Sealant	1	tube		
				Material Cost B	₽
				Labor Cost B	
				Direct Cost B	₽
	Architectural Works				
	Floor Finishes 600mm x 600mm Non-Skid Homogeneous Floor Tiles	49	6.9 m	₽	₽
	300mm x 300mm Non-Skid Homogeneous Floor Tiles	49	sq.m.	Г	Г
	(Comfort Room)	3	sq.m.		
	Floor Topping for Tile Preparation	52	sq.m.		
+	Wall Finishes		-		
	300mm x 300mm Homogeneous Wall Tiles	12	sq.m.		
	Ceiling Finishes				
	6mm Thick Fiber Cement Board including Metal Framing	51	sq.m.		
				Material Cost	₽
				Labor Cost	
				Subtotal	P
	Installation of Doors				
	D1 - (2.10m x 1.00m) Panel Door with Transom	1	set	₽	₽
	D2 - (2.10m x 0.60m) PVC Door with Louver	1	set		
	Door Jambs				
	D1 - (2.10m x 1.00m) Panel Door with Transom	1	set		
	Hardwares and Accessories				
	Door Hinges, Heavy Duty Stainless	6	piece		
	Door Knob, Lever Type, Stainless	2	piece		
				Material Cost	₽
				Labor Cost	
				Subtotal	₽
	Painting Works			₽	Ð
_	Elastomeric Paint Finish (Exterior Wall)	196	sq.m.		۲ ^۳
	Epoxy Enamel Paint Finish (Steel Members)	1	sq.m.		
	Flat Latex Paint Finish				
	Interior Wall	95	sq.m.		
+	Ceiling	51	sq.m.		
	Letterings	_			
	200mm Stainless Steel Lettering				
	"VETERANS II DAY CARE CENTER"	23	set		
		_		Material Cost	₽
				Labor Cost	
		_		Subtotal	₽
\downarrow		_			
				Material Cost C	₽

TEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost C	
				Direct Cost C	₽
D	Sanitary / Plumbing Works				
	Sewer Line / Storm Drainage System				
	100mm Ø, PVC Pipe with Hub	7	piece	₽	₽
	75mm Ø, PVC Pipe with Hub	3	piece		
	50mm Ø, PVC Pipe with Hub	5	piece		
	100mm Ø x 100mm Ø, Wye	2	piece		
	100mm Ø x 75mm Ø, Wye	2	piece		
	100mm Ø x 50mm Ø, Wye	2	piece		
	75mm Ø x 75mm Ø, Wye	1	piece		
	75mm Ø x 50mm Ø, Tee	3	piece		
	50mm Ø, 1/4 Bend	6	piece		
	100mm Ø, 1/8 Bend	4	piece		
	75mm Ø, 1/8 Bend	3	piece		
	50mm Ø, 1/8 Bend	4	piece		
	Cleanout 100mm Ø	1	piece		
	100mm Ø, P-Trap	1	piece		
	50mm Ø, P-Trap	1	piece		
	40mm Ø, P-Trap	1	piece		
	Coupling 100mm Ø	8	piece		
	Coupling 75mm Ø	3	piece		
	Waterline System				
	25mm Ø, PPR Pipe	3	piece		
	20mm Ø, PPR Pipe	4	piece		
	25mm Ø, Tee Equal	1	piece		
	20mm Ø, Tee Equal	8	piece		
	20mm Ø, End Cap	8	piece		
	25mm Ø, 90 Deg Elbow	3	piece		
	20mm Ø, 90 Deg Elbow	22	piece		
	25mm Ø x 15mm Ø, Female Thread Tee	8	piece		
	25mm Ø, Coupling	3	piece		
	20mm Ø, Coupling	3	piece		
	25mm Ø x 20mm Ø, Reducer	2	piece		
	Fixtures	-	piece		
	Bidet with Complete Accessories (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm Stainless Steel	1	piece		
	Grease Trap, 5GPM, Heavy Duty with Accessories	1	set		
	Hose Bibb, Lever Type, Heavy Duty, Stainless Steel (Water	6	piece		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy Duty (Water Efficient)	1	set		
	Water Closet, Tank Type, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single-Way Stainless	1	piece		
	Angle Valve, Two-Way Stainless	1	piece		
	Flexible Hose, Stainless		piece		
	Miscellaneous & Consumables	2	PIECE		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	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	₽
Е	Electrical Works				
	Roughing-ins				
	20mmØ PVC Pipe	50	piece	₽	₽
	Fittings and Accessories				
	20mmØ PVC Adaptor	56	piece		
	20mmØ PVC Flexible Tube	20	lm		
	20mmØ PVC Locknut	56	pair		
	50mm x 100mm PVC Utility Box	8	piece		
	100mm x 100mm PVC Junction Box with Cover	14	piece		
	100mm x 100mm PVC Utility Box (Pullbox)	5	piece		
	Wires and Cables				
	3.5mm ² THHN Wire	2	roll		
	5.5mm ² THHN Wire	30	Im		
	3.5mm ² TW Wire	1	roll		
	Lighting Devices				
	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete	3	set		
	Accessories, Recessed Type	5	361		
	600mm x 1200mm, 2 x 18w LED, Troffer Type, with Complete Accessories, Recessed Type	6	set		
	100mm Ø Round Recessed Pinlight Case	1	piece		
	100mm Ø Round Recessed Pinlight LED 9W	1			
	Wiring Devices and Other Fixtures	I	piece		
	Orbit Fan with Selector Switch	4	niaco		
	Outlet with Grounding, Two Gang	6	piece piece		
	Switch With Plate and Cover, One Gang	1	piece		
	Switch With Plate and Cover, Three Gang	1	-		
	Pipe Hangers & Supports	1	piece		
	Horizontal Layout of Pipe	50	lm		
	Miscellaneous & Consumables	50			
	400cc Solvent Cement	3			
			can roll		
	Electrical Tape	5			
	G.I. Tie Wire Ga. 16 (for Cable Pulling) Hacksaw Blade	1	kg		
		4	piece		
	Masking Tape		roll		
	Pulling Lubricant	1	can		
	Rubber Tape	1	roll		
	Torch With Butane	3	set	Matadal O. (E	₽
				Material Cost E	Г Г
				Labor Cost E Direct Cost E	₽

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
F	Mechanical Works				
	Airconditioning System				
	Condensate Water Drainage System				
	20mm Ø x 3m uPVC Pipe	1	piece	P	P
	20mm Ø uPVC Elbow	2	piece		
	Insulation				
	20mmØ x 12mm thick Rubber Foam Insulation	1	piece		
	Window-type Air Conditioning Unit				
	Window-Type Air Conditioning Unit, 2.50 hp, 25,500 KJ/Hr Cooling Capacity, 2,660 W, 230/1/60	1	unit		
	Pipe Hangers and Supports				
	Condensate Water Drainage System Support	1	l.m.		
	Window Type Aircon Steel Bracket	1	unit		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	50mm x 10m Duct Tape	1	roll		
	Waste Cloth	1	kg		
				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						
 	GENERAL REQUIREMEN CONSTRUCTION OF HAN REHABILITATION OF DAY	₽						
Prot appl	E: ictly enforce Health ocols relative to the latest icable DPWH norandum	TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM) Profit VAT	₽					
		TOTAL ESTIMATED COST	P					

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
- \Box (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;
 <u>or</u> 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

 \Box (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

- □ (1) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and
- (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;

<u>or</u>

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

 \Box (o) Original of duly signed and accomplished Financial Bid Form; <u>and</u>

Other documentary requirements under RA No. 9184

- \Box (p) Original of duly signed Bid Prices in the Bill of Quantities; <u>and</u>
- □ (q) Duly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; and
- \Box (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:

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

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

Name:	
Legal Capacity:	
Signature:	
Duly authorized to sign the Bid for and behalf of:	
Date:	

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

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

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

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

[Jurat]

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

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

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

AFFIDAVIT

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

1. [Select one, delete the other:]

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

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

2. [Select one, delete the other:]

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

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

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, <u>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;</u>
- 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, BAC the head the Project and the Secretariat, of 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:

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

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

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

 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

[Formal 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:

- 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.
- 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 <u>for the second offense</u>, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
- 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:
 - 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					CONTRACTOR'S BOLE (SOLE CONTINCTOR, SUBCONTINCTOR,	TOTAL	DATE OF	CONTRACT	PERC	NTAGE	
(Name of the Centract) 8. EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	PARTICIPATION	CONTRACT VALUE AT AWARD	COMPLETION or ESTIMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPUSHMENT	PLANNED ACCOMPLISHMENT	VALUE OF OUTSTANDING WORKS (IN PHP)
									TOTAL AMOUNT OUTSTANDING V		

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

NAME OF CONTRACTOR:

PROJECT TITLE: _____

PROJECT TITLE & EXACT LOCATION	MAJOR SCOPE OF WORKS & DATE STARTED	NAME AND ADDRESS OF PROJECT OWNER	CONTRACT PRICE (PHP) AS AWARDED	DATE OF SCHEDULED COMPLETION	ROLE OF BIDDER IN THE CONTRACT SOLE CONTRACTOR / SUB- CONTRACTOR/PARTNER IN A
		5			
		TOTAL AMOUNT OF CONTRACT (Php)			

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR:

PROJECT TITLE:

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE SOLE CONTRACTOR, SUBCONTRACTOR, PARTHER IN A (V) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETIO IF APPLICABI
								IT APPLICAD

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:

PROJECT TITLE:

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

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

NAME OF CONTRACTOR:

PROJECT TITLE: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:

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

NOTES:
+ CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.

> ** BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

REPUBLIC OF THE PHILIPPINES)

5. B

____) S. S.

AFFIDAVIT OF UNDERTAKING

REPRES	l, of legal age, RESENTATIVE]	Filipino,	OFFICER OR
	office address at		after
naving t	ng been duly sworn to in accordance with law, hereby volum	atary depose and st	ate:
	That I am duly authorized representative of the <u>INam</u> undertaking as evidenced by Secretary's Certificate and	e of Bidder Board Resolution.	to execute this
1	ThatIName of Bidder]bidding for the (Name of I	Project)	
	That relative to the aforementioned Project, the <u>[Nam</u> that the equipment to be use and the key personnel to be will only perform to the said project until its completion.	assign shall exclus	eby undertake ively be used and
1	That I am executing this affidavit to attest to the truth of with the submission of the technical requirements for the	the foregoing and i public bidding of	n compliance the said project.
	IN WITNESS HEREOF, I have hereunto signed my	y name below th	uis day
y	AFFIANT FURTHER SAYETH NAUGHT.		

Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this	_ day of
in	

affiant exhibiting to me his/her _____ issued at on

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

Notary Public

