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 4 AREA XXIV

Project number: 21-00171

Sixth Edition July 2020

Preface

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

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

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

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

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

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

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

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	ı III. Bid Data Sheet	16
Section	IV. General Conditions of Contract	21
1.	Scope of Contract	22
2.	Sectional Completion of Works	22
3.	Possession of Site	
4.	The Contractor's Obligations	22
5.	Performance Security	22
6.	Site Investigation Reports	23

7.	Warranty	23
8.	Liability of the Contractor	23
9.	Termination for Other Causes	23
10.	Dayworks	23
11.	Program of Work	24
12.	Instructions, Inspections and Audits	24
13.	Advance Payment	24
14.	Progress Payments	24
15.	Operating and Maintenance Manuals	24
Section	V. Special Conditions of Contract	26
Section	VI. Specifications	28
Section	VII. Drawings	30
	VIII. Bill of Quantities	
	IX. Checklist of Technical and Financial Documents	

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 AND AWARDS COMMITTEE FOR INFRASTRACTU



BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE & CONSULTANCY

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

November 15, 2021

Invitation to Bid

No	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
Bui	ildings – S	Small B					
1	21- 00156	Proposed Construction of Hand Washing Facility and Rehabilitation of Waterline System at Krus Na Ligas Elementary School (Simon Building)	Krus Na Ligas	1,136,052.36	60	Engineering Department	Special Education Fund
2	21- 00157	Proposed Construction of Hand Washing Facility at Payatas C Elementary School	Payatas	1,278,401.32	60	Engineering Department	Special Education Fund
3	21- 00158	Proposed Construction of Hand Washing Facility at Main Building of Balara High School	Pansol	1,282,912.05	60	Engineering Department	Special Education Fund
4	21- 00159	Proposed Rehabilitation of Day Care Center at District 3 / Area XIII and XIV	Claro, Silangan & East Kamias	1,458,079.64	45	Engineering Department	Engineering - SB No. 1
5	21- 00160	Proposed Construction of Hand Washing Facility and Rehabilitation of Waterline System at Ramon Magsaysay High School Belmonte Building)	Pinagkaisahan	1,731,551.85	90	Engineering Department	Special Education Fund
6	21- 00161	Proposed Construction of Hand Washing Facility and Rehabilitation of Waterline at Bagong Pag-Asa Elementary School (SB Building)	Bagong Pag- Asa	1,801,334.79	60	Engineering Department	Special Education Fund
7	21- 00162	Proposed Rehabilitation of Milagrosa Daycare Center and Livelihood Center	Milagrosa	2,198,687.07	75	Engineering Department	Engineering - SB No. 1
8	21- 00163	Proposed Construction of Hand Washing Facility and Rehabilitation of Comfort Rooms and Waterline System at Aguinaldo Elementary School (Estrada Building)	San Roque	2,296,791.86	120	Engineering Department	Special Education Fund
9	21- 00164	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 5)	Payatas	2,871,590.18	60	Engineering Department	Engineering - SB No. 1
10	21- 00165	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 3 / Area XV	Matandang Balara & Pansol	3,027,863.77	60	Engineering Department	Engineering - SB No. 1

11	21- 00166	Proposed Construction of Hand Washing Facility and Rehabilitation of Comfort Rooms and Waterline System at Maligaya Elementary School (Vargas Building)	Pasong Putik	3,565,679.65	90	Engineering Department	Special Education Fund
12	21- 00167	Proposed Construction of Hand Washing Facility and Rehabilitation of Comfort Rooms and Waterline System at San Francisco High School (SB Building)	Ramon Magsaysay	4,900,074.64	60	Engineering Department	Special Educution Fund
13	21- 00168	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 3 / Area XVI and XVIII	Villa Maria Clara, Bagumbuhay, Bayanihan, Escopa 3, Marilag	5,527,209.52	90	Engineering Department	Engineering - SB No. i
14	21- 00169	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XIX	Kamuning. Obrero, Paligsahan, Roxas & South Triangle	7,108,186.57	60	Engineering Department	Engineering - SB No. 1
15	21- 00170	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XXIII	Old Capitol Site, San Vicente & U.P. Campus	8,767,692.58	90	Engineering Department	Engineering - SB No. 1
16	21- 00171	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XXIV	Central, Krus Na Ligas & Pinyahan	8,801,647.54	60	Engineering Department	Engineering - SB No. 1
17	21- 00172	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 1)	Bagong Silangan	8,899,769.12	90	Engineering Department	Engineering - SB No. I
18	21- 00173	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XX	Horseshoe, Immaculate Concepcion, Kaunlaran, Pinagkaisahan & San Martin De Porres	9,342,308.35	60	Engineering Department	Engineering - SB No. 1
19	21- 00174	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 4)	Holy Spirit	9,513,555.66	90	Engineering Department	Engineering - SB No. 1
20	21- 00175	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 4 / Area XXII	Tatalon, Don Manuel, Doña Aurora, Doña Imelda, Doña Josefa, San Isidro Galas, Santol & Sto. Niño	11,988,174.41	90	Engineering Department	Engineering - SB No. 1
21	21- 00176	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 3)	Balonbato & Sangandaan	14,755,919.20	90	Engineering Department	Engineering - SB No. 1

22	21- 00177	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 2 Area VII (Cluster 2)	Batasan Hills	17,576,527.83	90	Engineering Department	Engineering - SB No. 1
----	--------------	---	---------------	---------------	----	---------------------------	---------------------------

- The QUEZON CITY LOCAL GOVERNMENT, through funding source of various years
 intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to
 payments under the contract for the above stated Projects. Bids received in excess of the ABC
 shall be automatically rejected at bid opening.
- 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 16 November 2021 (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 Documen (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	
	A 30.00000000000000000000000000000000000	

The following are the requirements for purchase of Bidding Documents;

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

It must be duly received by the BAC Secretariat at 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound on or before November 23, 2021 - 5:00PM.

 The QC-BAC-INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference¹ on November 24, 2021 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.

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

- Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before December 6, 2021 – 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 December 6, 2021 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

- 10. The Quezon City Local Government reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 11. For further information, please refer to:

ATTY, DOMINIC B. GARCIA

OIC, Procurement Department 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound Elliptical Road, Barangay Central Diliman, Quezon City. Tel. No. (02)8988-4242 loc. 8506/8710

Email Add: bacinfra.procurement@quezoncity.gov.ph

Website: www.quezoncity.gov.ph

You may visit the following websites:

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

By:

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

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.

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF DAY CARE CENTER AT DISTRICT 4 AREA XXIV, with Project Identification Number 21-00171.

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

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

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for 2021 in the amount of Eight Million Eight Hundred One Thousand Six Hundred Forty-Seven Pesos & 54/100 Ctvs. (P 8,801,647.54).
- 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 November 24, 2021, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

15. Bid Security

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

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause					
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.				
7.1	Subcor	ntracting is not allow	ed.		
10.3	No add	itional contractor lice	nse or permit is require	ed	
	In addi	tion, eligible bidders s	shall qualify or comply	with the following:	
	1. Bidd	ers with valid Philippi	ne Contractors Accred	itation Board (PCAB)	
	Тур	e			
	E	Building - Small B			
10.4	The m followi		ence requirements for	or key personnel are the	
			TION OF HAND WAS OF KABALITANG DA	SHING FACILITY AND AY CARE CENTER	
	Qnty.	Key Personnel	General Experience	Relevant Experience	
	1	Project Engineer	3 years	3 years	
	1	Safety Officer	3 years	3 years	
	1	Foreman	3 years	3 years	
	7	Skilled Worker	3 years	3 years	
	1	Driver	3 years	3 years	
	7	Laborer	1 year	3 months	
	PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF KNL-CDO DAY CARE CENTER				
	1	Project Engineer	3 years	3 years	
	1	Safety Officer	3 years	3 years	
	1	Foreman	3 years	3 years	
	5	Skilled Worker	3 years	3 years	
	1	Driver	3 years	3 years	

6	Laborer	1 year	3 months
			WASHING FACILITY AND
J	REHABILITATION OF SI	TIO LAMBA	AK DAY CARE CENTER
1	Project Engineer	3 years	3 years
1	DPWH duly accredited Materials Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
7	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
6	Laborer	1 year	3 months
	PROPOSED REHABILIT		FORESTRY DAY CARE
		CENTER	
1	Project Engineer	3 years	3 years
1	DPWH duly accredited Materials Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
8	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
9	Laborer	1 year	3 months
	PROPOSED REHABILIT	CATION OF I	PINYAHAN DAY CARE
		CENTER	
1	Project Engineer	3 years	3 years
1	DPWH duly accredited Materials Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
5	Skilled Worker	3 years	3 years

	1 Dr	iver	3 years	3 years
	3 Lab	oorer	1 year	3 months
	notarized statin	g that the foregoin		of undertaking duly form work exclusively bid forms.
10.5	The minimum n	najor equipment rec	quirements are the foll	owing:
			OF HAND WASHIN ABALITANG DAY (NG FACILITY AND CARE CENTER
	Equipment		Capacity	Number of Units
	Elf Truck Scaffolding Power Tools Minor Tools	ONSTRUCTION	OF HAND WASHIN	as needed as needed as needed as needed
			KNL-CDO DAY CA	
	Equipment		Capacity	Number of Units
	Elf Truck Scaffolding Power Tools Minor Tools			as needed as needed as needed
			OF HAND WASHIN TO LAMBAK DAY	NG FACILITY AND CARE CENTER
	Equipment		Capacity	Number of Units
	Elf Truck Scaffolding Power Tools Minor Tools			as needed as needed as needed
	PROPOSI		TION OF FORESTI CENTER	RY DAY CARE
	Equipment		Capacity	Number of Units
	Elf Truck Scaffolding Power Tools Minor Tools			as needed as needed as needed

	PROPOSED REHABILITATION OF PINYAHAN DAY CARE CENTER			
	Equipment	Capacity	Number of Units	
	Welding Machine Elf Truck Power Tools		1 1 as needed	
	notarized stating that the	must execute an affidav foregoing equipment shal etion. Please see attached b	l be used exclusively for	
12	[Insert Value Engineering		y	
15.1	The bid security shall be in number, or any of the follo	the form of a Bid Securing owing forms and amounts:	Declaration with project	
	a) The amount of not less than Php 176,032.95 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or			
		ess than Php 440,082.38 or security is in Surety Bond.		
19.2	Partial bid is not allowed.	The infrastructure project idivided into sub-lots for	is packaged in a single lot	
20	No additional requirement.			
21	Additional Contract Documents relevant to the Project as required: 1. Construction Schedule and S-curve,			
	2. Manpower Schedule,			
	3. Construction Methods,4. Equipment Utilization			
		acceptable tools of proje	ect scheduling, shall be	
	included in the submissio		or sometimes, similar pe	

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

- 3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
 - 3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.
- 11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 60 calendar days
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: [list here the required site investigation reports.]
7.2	[Select one, delete the other.]
	[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:] Fifteen (15) years.
	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is thirty (30) days The date by which "as built" drawings are required as part of final payment
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

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

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



Republic of the Philippines Quezon City

CITY ENGINEERING DEPARTMENT



Cow, Center Building B. Quezon City Hall Compound, Elliptical Read-Diliman, Central 1100 Quezon City Frunk Bing: +63-2 8986-4747

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND

REHABILITATION OF KABALITANG DAY CARE CENTER >

LOCATION:

BARANGAY KRUS NA LIGAS, DISTRICT 4, QUEZON CITY/

GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- b. Orawings specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply
- Should there be any change(a) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- d. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / inspection shall be conducted to validate the scope of works. No extra
 compensation and extension of time shall be given due to negligence or inadvertence
- f. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as 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.
 - ii. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- Execute work in strict eccordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- Temporary Faculties 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.
- 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 austain loads to be carned 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.
 - i A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
 - ii. The medical room shall be provided in waterproof; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 - iii The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
 - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents
- m Final dearing of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface of 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 shell be verified as indicated on the plans and details. Any discrepencies or inconsistencies shall be reported before commencing to work.
- 6. Removel / demolition of existing structures shall be done in accordance to safety procedures.

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

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

d. Materials

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C = 150).
- Water used in mixing concrete shall be clean and free from other injunous amounts
 of oits, acids, alkaline, organic materials or other substances that may be
 deleterious to concrete or steet.
- iii. Fine aggregates shall be beach or over 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.
- iv. Coarse aggregates shall be either natural grave? 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 disnersions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.

d Proportioning and Mixing.

i. Proportioning and mixing of concrete shall conform to the requirements for Remi-405 of the standard specification with the following proportions:

Cement: Sand, Gravel

- Ctass 'A" 1 , 2 | 3
 Ctass 'B" 1 : 2 | 4
 Ctass 'C" 1 : 2 ½
- Concrete mixture to be used for concrete shall conform with the structural requirements.
- jii. Mixing concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

e. Forms

- General Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or morter from the concrete. Forms shall be % waterproof plywood and form lumber.
- Cleaning of Forms before placing the concrete, the contact surfaces of the formed half 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 siring shall be started as soon as the surface is sufficiently hard to permit it without further damage.

Placing Reinforcement:

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

g. Conveying and Placing Concrete

- i. Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- ii Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- и. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred end 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 slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

h Curing

- 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 wat by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

i. Finishmo

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

B. MASONRY WORKS

 Masonry Units (CHB)
 100mm thick for all intenor walls and 150mm thick for all exterior walls unless otherwise indicated Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.

Where full height watts 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 well due to height & other considerations.

b. Sand;

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

Mortar.

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

Plaster bond

Apply plaster bond to all wall area.

C. METAL WORKS

Description

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

b. Reference Standards

Compty with the latest edulor of the following as applicable, unless otherwise spacified or modified.

- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). 1978
 Specification for the Design, Fabrication and Eraction of Structural Steel for Buildings. Code of Standard Practice for Steel Buildings and Bridges;
 Specification for Architecturally Exposed Structural Steel.
- AMERICAN WELDING SOCIETY (AWS). Standard Welding Symbols A2,066; Standard Welding Code D1 1-1973 (Rev 1-73 & 2-74) (To govern if in conflict with AISC)
- RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCR8J): Specification for Structural Joists using ASTM A-325-76s Bolts.
- STRUCTURAL STEEL PAINTING COUNCIL (SSPC) Painting Manual, Vol. 1; Good Painting Practice, Painting Manual, Vol. 2; Systems and Specifications

c. Source Quality Control

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

d. Product Delivery, Handling and Storage

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

Protection

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

f. Field Quality Control

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

g. Materials

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

- s) STEEL AND fRON: If not specified otherwise, use standard millfinished structural steel shapes or bar iron incompliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for Buildings.
- b) BOLTS, NUTS, STUDS AND RIVETS: ASTM A 307 & A 325
- SCREWS, Fed. Spec. FF-S-85, Fed. Spec. FF-S-92, and Fed. Spec. FF-S-111

h. Fabrication

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

Meesurements

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

i. Metal Surfaces

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

k. Construction.

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

Shop Fabrication

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

m. Submittals

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

Delivery and Storage

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

Welding

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

p. Metal Purlins

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

D. ROOFING WORKS

- a. The roof shall be covered with Ga 24 pre-painted G.I rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purions with min- 2 ¼" max. 3' long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted Git, 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.
- 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.1. 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.

ARCHITECTURAL WORKS r۷.

A. WALLS AND FLOOR FINISHES

- a. 600mm x 600mm Norskid Homogeneous Tiles including ble adhesive
- b. 50mm concrete Topping with Plain Cement Finish
- 50mm Concrete Topping for Titles
 400mm x 400mm Ceramic Wall Titles
- Urinal partition including stainless steel support and accessories
- f. Plastering Guide/ Grooves

B. CEILING FINISHES

12mm thk Fiber Coment Board including framing and accessories

C. DOORS & WINDOWS.

Follow as per approved plan and specifications.

D. PAINTING WORKS

- All pnmers, thinners and pully, also waterproofing for internal and external application shall be the same brand as the specified material
- Application shall be as per paint Manufacturers specification and recommendation.
- Provide all drop cloth and other covering requisite for protection of floors walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's instructions and Specifications.
- 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 accessiones, 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 steins 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 meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
 - 8.3 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.
- 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.
- 6 In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- M. 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

Page 8 of 11

- 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 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 exection 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 All installed pipelines shall be flushed through with water, rodded 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 drainage system to show that it is functioning satisfactority within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide surtable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- The Sanitary Contractor must carry out any additional feets required by the end-user and/or approving agency.
- U Dramage 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 filting 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 toops, expansion bends, 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 steel. Install additional attachments at concentrated loads, including valves flanges, and strainers, NPS.

- 2-1/2 (DN 65) and targer and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bers 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 alopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping

VI. ELECTRICAL WORKS

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

F PANELBOARDS

- F 1 Fabricate and test panel boards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2 Englosures: Flush, Surface, Flush- and surface-mounted cabinets
 - F 2.1 Rated for environmental conditions at installed location.
 - j Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - ii. Outdeor Locations: NEMA 250, Type 3R
 - iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
 - iv Other Wet or Damp Indoor Locations: NEMA 250, Type 4
 - Indoor Locations Subject to Dust, Falling Dirt, and Dripping.
 Noncorrosive Equids: 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, evenlap box
 - F 2.3 Hinged Front Cover. Entire front trim hinged to box and with standard door within hanged trim cover.
 - F.2.4 Skirt for Surface-Mounted Panel boards. Same gage and finish as panel board front with flanges for attachment to panel board, wall, and ceiling or floor.
 - F.2.5 Gutter Extension and Barrier Same gage and finish as panel board andosure: integral with enclosure body. Arrange to isolate individual panel sections.
 - F 2.6 Finishes:
 - i Panels and Thm: Steel and galvenized steel, 'actory finished immediately after cleaning and pretreating with manufacturer's

- standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
- ii. Back Boxos. Galvanized steel Same finish as panels and trim.
- iii Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- F.2.7 Overctory Card: Inside panel board door, mounted in transparent card holder metal frame with transparent protective cover.
- F 3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
 - F,4.1 Material. Hard-drawn copper, 98 percent conductivity.
 - F.4.2 Equipment Ground Bus. Adequate for feeder and branch-circuit equipment grounding conductors, bonded to box
 - F.4.3 Neutral Bus: 100 percent of phase bus 4 Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

CARMINA KAY A BURAGGANAN Planning and Programming Division

JOGENYNA, NAONG A



Republic of the Philippines Ouezon City

CITY ENGINEERING DEPARTMENT



Owe Center Building B, Quezon City Hall Compound, Elliptical Road Oliman, Central 1200 Quezon City Trunk line: +63 2 8988 4242

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND

REHABILITATION OF KNL-CDQ DAY CARE CENTER >

LOCATION:

BARANGAY KRUS NA LIGAS, DISTRICT 4, QUEZON CITY

GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom
- 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 progress of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence
- f The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as detective.
- g. All equipment and installations shall meet or exceed minimum requirements of the standards and codes
- Mobilization and Demobilization (if applicable).
 - i. Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site: establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - ii. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, remove and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j Temporary Facilities and Utilities
 - 4. 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 roadways shall be constructed and maintened to sustain loads to be carried on them during the entire construction period.
- VI Upon completion of the work, the temporary facilities shall be demotished, hauledout and disposed property.
- Adequate construction safety and heath 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 edjacent property shall be provided to avoid untoward incidents / accidents.
- m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plane and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B. Removal / demolition of existing sauctures shall be done in accordance to salety procedures.

III. CIVIL / STRUCTURAL WORKS

A. METAL WORKS

a. Description

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

Reference Standards

Comply with the tatest edition of the following as applicable, unless otherwise specified or modified.

 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 1978: Specification for the Design, Fabrication and Erection of Structural Steet for Buildings. Code of Standard Practice for Steel Buildings and Bridges; Specification for Architecturally Exposed Structural Steel.

- AMERICAN WELDING SOCIETY (AWS): Standard Welding Symbols A2.068: Standard Welding Code D1 1-1973 (Rev 1-73 & 2-74) (To govern if in conflict with AISC)
- RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ). Specification for Structural Joists using ASTM A-325-76s Bolts
- SYRUCTURAL STEEL PAINTING COUNCIL (SSPC): Painting Manual, Vol. 1; Good Painting Practice, Painting Manual, Vol. 2; Systems and Specifications.

Source Quality Control

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

d. Product Delivery, Handling and Storage

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

Protection.

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

f. Field Quality Control

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

g. Materials

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

- a) STEEL AND IRON: If not specified otherwise, use standard millfinished structural steel shapes or bar iron incompliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for Buildings.
- b) BOLTS, NUTS, STUDS AND RIVETS: ASTM A 307 & A 325
- c) SCREWS: Fed. Spec. FF-S-85, Fed. Spec. FF-S-92, and Fed. Spec. FF-S-111

h. Fabrication

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

Measurements

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

Metal Surfaces

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

k Construction

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

Shop Fabrication

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

m. Submittals

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

Delivery and Storage

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

Welding

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

p. Metal Purlins

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

ARCHITECTURAL WORKS IV.

A. WALLS AND FLOOR FINISHES

- 8. 600mm x 600mm Nonskid Homogeneous Tites including tile adhesive.
- 50mm concrete Lopping with Plain Cement Finish.
- c. 50mm Concrete Topping for Tiles
 d. 400mm x 400mm Ceramic Wall Tiles

- Urinal partition including stainless steel support and accessories
- f. Plastering Guide/ Grooves

B. CEILING FINISHES

12mm this Fiber Cement Board including framing and accessories.

C. DOOR\$ & WINDOWS

Follow as per approved plan and specifications.

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, alumnum, glass, faishes and other works
- All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- Alt surfaçes including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and potished, masonry wall shall be treated with Neutralizer
- 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 starns and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

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

- 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 tayout 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 exemination 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 calalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water rodded when necessary to ensure clearance of debris.
- 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.
- 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 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 felse 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.
- The Spinitary 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 filting 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 treedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bonds, and similar units.
- Z Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including 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 bars through openings at top of inserts.
- BB Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

VI. ELECTRICAL WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules regulations and requirements of the utility companies (as applicable).
- B. Drawings, specifications, codes and stendards 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 gractices 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 paniel boards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - F.2.1 Rated for environmental conditions at installed location.
 - Indoor Dry and Clean Locations: NEMA 250, Type 1
 - ii. Outdoor Locations, NEMA 250, Type 3R.
 - iii. Kachan 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 Noncompsive 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 hanged to box and with standard door within hinged trim cover.

- F 2.4 Skirt for Surface-Mounted Panel boards: Same gage and finish as panel board front with flanges for attachment to panel board, wall, and calling or floor.
- F.2.5 Gutter Extension and Barrier Same gage and finish as panel board enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
- F.2.6 Finishes:
 - 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 topocal.
 - ii. 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 panel board door, mounted in transparent card holder metal frame with transparent protective cover
- F.3 Incoming Mains Location. Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
 - F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
 - F.4.2 Equipment Ground Bus; Adequate for feader 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.

CARMINA KAYA FURAGGANAN Planning and Programming Division

JOCEKYN & NAONG J Planning and Programming Division



Replublika ng Pilipinas Lungsod ng Quezon

CITY ENGINEERING DEPARTMENT

STH 6TH 7TH Floors, QC Civic Center Building '&''
Telephone Nos 8988-4242 Local 8538



PROJECT TITLE :

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF SITIO LAMBAK DAY CARE CENTER

LOCATION BARANGAY KRUS NA LIGAS, DISTRICT 4, 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 ensing 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 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 competent workmen. Provide a competent experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- 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.
- 5 Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the emire construction period.
- Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - 1 A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
 - The medical room shall be provided with waterproofing, it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 - 3 The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site.
 - 4 Additional safety precautions shall be provided in the event of a pandomic. 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, Materials Engineer, Safety Officer/Practitioner (as required) and project driver.
 - Construction safety materials shall consist of safety net, fire extinguisher and safety signage and posters
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents? accidents.
- M. Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepances 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, ferices, structures, old pavernents, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract.
 - Removal and/or demolition of existing structures shall be done in accordance to safety procedures.
- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.

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

Trenches or foundation pits for structures or structure footings shell 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 boltoms 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, togs, 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 culven 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 backlift. The surplus materials shall be disposed of in such manner as not to obstruct the stream or otherwise impair the efficiency or appearance of the structure. No excavated materials shall be deposited at any time so as to endanger the partly finished structure.

All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted by westing, temping 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 Termioide Concentrate working solution at the rate of 8 liters per linear meter.
 - Drenching When soll 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 titers per square meter.

III. CIVIL / STRUCTURAL WORKS

A. ROOFING WORKS

- 1. The roof shall be covered with Ga. 24 pre-painted G.), rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purties with min, 2 % max. 3' long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.1 rib-type roofing sheets. They shall be riveted to 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 ½ max. 3° long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall sep the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- 3. All roofing sheets adjacent to concrete hollow block and other masonry walls such as properly tine firewalls, shall be provided with Gauge 26 pre-painted plain GI Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners. Materials:
 - a. Steel and Iron, if not specified otherwise, use standard mill-finished structural steel shapes or bar iron in compliance with ALSC Specifications for Design, Fabrication and Erection of Structural Steel for buildings.
 - Boits, Nuts, Studs and Rivels ASTM A 307 and A 325.

- Screws, Fed. Spec FF-S-85, Fed. Spec FF-S-92, and Fed. Spec. FF-S-111.
- d. Metal Purlins. High grade galvanized stool with minimum (ensite strength of 275 MPa 1.4mm in thickness or approved equal

B. METAL FABRICATION

Maleriais

- Steel and Iron. If not specified otherwise, use standard mill-finished structural steel shapes or bar iron in compliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for buildings.
- f Balls Nuts, Studs and Rivets, ASTM A 307 and A 325.
- Screws Fed Spec FF-S-85, Fed. Spec FF-S-92, and Fed. Spec. FF-S-111.
- h Metal Purlins. High grade galvanized steel with minimum tensile strength of 275 MPa 1 4mm in thickness or approved equal

Eabrication.

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

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 langle and smooth surface. Shearing and punching shall leave clean true lines and surfaces. Weld or rivet permanent connections. Weld and flush rivals 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 soosening.

4. Construction:

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

Welding:

Use welding electrode E70xx and parform 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 tile adhesive
- 2 S0mm concrete Topping with Plain Cement Finish

B. WALL FINISHES

- 300mm x 300mm Homogeneous Tiles including tile achesive
- 2. 400mm x 400mm Homogeneous Tiles including tile adhesive
- 50mm concrete Topping with Plain Cement Finish.

C. PAINTING WORKS

- Paint Materials. All types of peint 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
 - Exterior Masonry Wall (plain cement plastered finish to be painted)
 - 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish.
 - Interior Masonry Wall (plain cament plastered finish to be painted).
 - 1 coat skim coating, 1 coat primer, 2 coats latex paint finish.
 - d. Interior Dry Wall
 - 1 coat primer, 2 coats latex paint finish.
 - e. Ceiling Boards
 - 1 coal primer, 2 coals latex paint finish.
 - f. Slab Soffit
 - i 1 coal primer, 2 coals latex paint finish.
 - g. Metal / Steel Surfaces
 - 1 cost 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. Neit holes, cracks or defects shall be carefully puttied after the first coal, matching the color of paint.

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

Concrete and masonry surfaces shall be coated with concrete neutralizer and allowed to dry before any painting primer coat is applied. When surface is direct 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, rack 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 hardware will be fitted and removed or protected prior to painting and vernishing works.
- Application. Paints when applied by brush shall become non-fluid, thick shough to lay down as adequate film of wet paint. Brush marks shall have flawed out after application of paint.

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

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

- ii. Application shall be as per paint Manufacturer's specification and recommendation.
- iii. Provide all thop cloth and other covering requisite for protection of foors, walls, aluminum, glass, finishes and other works.
- w. Alt applications and methods used shall study follow the Manufacturer's Instructions and Specifications.
- v All surfaces including masonry wall shall be thoroughly cleaned, publicd, sanopapered, rubbed and polished: masonry wall shall be treated with Neutralizer.
- vi. All exposed finish hardware, lighting fodures and accessories, glass and the tike shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

D. DOORS & WINDOWS

Follow as per approved plan and specifications.

E. FABRICATED MATERIALS

Follow as per approved plan and specifications

F. LETTERINGS

Follow as per approved plan and specifications

V. SANITARY / PLUMBING WORKS

- A Compty 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 festing of the following:
 - Poteble water supply system complete in all respects including but not limited to submittals, slrop drawings, piping, water meters, valves, bibbs, insufation, all accessores required for complete and operational of the system.
 - Water service connections including but not timited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
 - Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
 - 4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings pipes, fittings, valves, cleanout drains, etc. Complete and operational
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes
- G. In selecting makes and types of equipment, the Contractor shall ascertain that fecilities for proper maintenance, repair and replacement are provided.
- 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 structural weakening due to handling, adverse weather or other orcumstances and, as far as practicable they shall be kept in the packing cases or under approved protective coverings until required for use.
- E. Any items suffering from damage during manufacture, or in transit, or on site whilst its 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.
- Cleaning and flushing shall be carned out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated curing 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 and-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 ριφιής systems, to permit freedom of movement between pipe anchors, 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 slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges and strainers, NPS 2-1/2 (DN 65) and targer 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 riserts.
- 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 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, collagonal and square boxes; conduit fittings, such as couplings, tocknots and bushings and other electrical materials needed to complete the conduit roughingin work of this project.
- All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark
- 3 Alt works throughout shall be executed in the best practice in a workmantike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer.
- 4. The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
- 5. All lighting fixtures and temps are as specified and listed on lighting fixture schedule.
- 6. All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
- All auxiliary systems such as telephone and intercom system, time clock system, fire alarm system and public address/hurse's call/paging system installations shall be done in accordance with the approved design.
- Upon completion of the electrical construction work, the contractor shall provide all
 test equipment and personnel and to submit written copies of all test results.
- 9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

B. WIRES AND WIRING DEVICES.

- This Item shall consist of the furnishing and installation of all wires and wiring devices
 consisting of electric wires and cables, wall switches, convenience receptacles, heavy
 duty receptacles and other devices shown on the approved Plans but not mentioned
 in these specifications
- 2. Wires and 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 apacified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts. All wires shall be copper, soft drawn and annealed, smooth and of cylindrical form and shall be centrally located inside the insulation.
- 3. Conductors or wires shall not be drawn in condults until after the cement plaster is dry and the condults are thoroughly cleaned and free from dirt and moisture. In drawing wires into conduits, sufficient slack shall be allowed to permit easy connections for fixtures, switches, receptacles and other wiring devices without the use of additional splices.
- 4. All conductors of convenience outlets and lighting branch circuit homerons shall be wired with a minimum of 3.5 mm in size. Circuit homerons to panel boards shall not be smaller than 3.5 mm but all homerons to panel board more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size.

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

RALPHOREGOR M. MANALO

Planning and Programming Division

JOCELÝN Ř. NAONG

Planning and Programming Division



Republic of the Philippines Quezon City

CITY ENGINEERING DEPARTMENT



Civic Center Building B, Quezon City Hell Compound, Elliptical Road
Dillman, Central 1100 Quezon City
Trunk line: +63 2 8988 4242

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF FORESTRY DAYCARE,

CENTER

LOCATION : BARANGAY CENTRAL, DISTRICT 4, QUEZON CITY

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
- 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 morth. 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.
- 1. 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
- Mobilization and Demobilization (if applicable)
 - i Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the sile; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - ii Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- i Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike mainner by competent workman. Provide a competent experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- 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 sanifary 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.
- V. 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 demotished, 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.
 - i A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
 - ii. The medical room shall be provided in waterproof; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 - iii. The tocation 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 amployed 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, tevels and dimensions shall be verified as indicated on the plans and details. Any discrepances or inconsistencies shall be reported before commencing to work.
- B Removal / demotition 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.
- All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

UI. CML/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 or other damage shall be rejected.

b. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

Materials

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C = 150).
- iii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
- iii Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be course, sharp clean free from salt, dust, loam, dirt and all foreign matters.
- iv. Coarse aggregates shall be either natural gravet or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of eggregates 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 targer than three fourths (3/4) of the minimum clear specing 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 ½
- Concrete mixture to be used for concrete shall conform with the structural requirements.
- III. Mixing concrete shall be mechine mixed. Mixing shall begin within 30 minutes after the coment has been added to the aggregates.

e. Farms

- 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 contemination with materials caving from adjacent, excevated 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 light to prevent loss or morter from the concrete. Forms shall be ½' waterproof plywood and form lumber.
- ii Cleaning of Forms before placing the concrete, the contact surfaces of the formed half 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.

Placing Remorcement:

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. All reinforcement, when placed, shall be free from loose, flaky

rust and scale, oil greese, 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 lies. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

g. Conveying and Placing Concrete:

- i. Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- Placing concrete shall be worked readily into the corners 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) meters and consequently segregation is reduced to a minimum near forms or embedded items or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into honzontal layers not exceeding 30 centimeters in depth within the maximum taleral movement specified.
- iii Time interval between mixing end 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 temping. 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 temping and vibrators shall not be used.
- Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cament-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 total
 conditions.
- Moist Curing The surface of the concrete shall be kept continuously wat by covering with buriap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

Finishing

- Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.
- ii. Concrete Stabs on Fill. The concrete stabs 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 stab 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.

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:

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

c Mortar:

One part "Portland" coment 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

C. METAL WORK

a. Description

Metal works shall conform to the approved plans and to the Standard Specifications

B. Reference Standards

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

- AMÉRICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 1978: Specification for the Design, Fabrication and Erection of Structural Steel for Buildings. Code of Standard Practice for Steel Buildings and Bridges; Specification for Architecturally Exposed Structural Steel.
- AMERICAN WELDING SOCIETY (AWS): Standard Welding Symbols A2,068; Standard Welding Code D1 1-1973 (Rev 1-73 & 2-74) (To govern if In conflict with AISC)
- RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ): Specification for Structural Joists using ASTM A-325-76s Bolts.
- STRUCTURAL STEEL PAINTING COUNCIL (SSPC): Painting Manual, Vol. 1; Good Painting Practice, Painting Manual, Vol. 2, Systems and Specifications.

Source Quality Control

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

d. Product Delivery, Handling and Storage

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

e. Protection

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

f. Field Quality Control

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

e. Materials

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

- STEEL AND IRON: If not specified otherwise, use standard millfinished structural steel shapes or bar iron incompliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for Buildings.
- BOLTS, NUTS, STUDS AND RIVETS: ASTM A 307 & A 325.
- SCREWS: Fed. Spec. FF-S-85, Fed. Spec. FF-S-92, and Fed. Spec. FF-S-111

h. Fabrication

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

1. Measurements

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

j. Metal Surfaces

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

k. Construction

Thickness of metals and details of assembly and supports shall give ample strength and stiffness for the minimum loads specified or indicated.

Joints exposed to weather shall be formed to exclude water.

Shop Fabrication

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

m. Submittals

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

n. Qualification of Welders.

In accordance with AWS D1.1 with procedures, materials and equipment of the type required for the work.

Delivery and Storage

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

Welding

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

q. Metal Purlins

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

D. ROOFING WORKS

- a. The roof shall be covered with Ga 24 pre-painted G1 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 purios with min. 2 ½1 max. 31 long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

E WATERPROOFING

a. Waterproofing.

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

F. Testing:

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

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

IV. ARCHITECTURAL WORKS

A. WALLS AND FLOOR FINISHES

- 600mm x 600mm Homogeneous Floor Tiles including tile adhesive
- 50mm Concrete Topping for Tiles
- c. 300mm x 300mm Homogeneous Floor and Wall Tiles

B. CEILING FINISHES

a 6mm thick Fiber Cement Board Including Metal Framing

C. DOORS & WINDOWS

Follow as per approved plan and specifications

D. PAINTING WORKS

- All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material
- Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of (loors, walls, aluminum, glass, finishes and other works.
- All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- All surfaces including mesonry wall shall be thoroughly cleaned, puthed, sandpapered, subbed and polished, masonry wall shall be treated with Neutralizer
- f. All exposed firmsh hardware, lighting fixtures and accessories, glass and the like shall be adequately profested so that these are not stamed 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, didinances, and requisitions of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).

- B. Supply, installation and testing of the following.
 - B 1 Potable water supply system complete in all respects including but not limited to submittels, 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, littings, valves, cleanout, drains, etc. Complete and operational.
 - B.4 Storm drainage system complete in all respect including but not fimited to connection to existing storm drainage, submittels, shop drawings, pipes. fillings, valves, clearout, 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 secentain 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 délivered 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 covenings 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 senitary fittings and pipework shall be deaned after installation and keep them in a new condition
- All metalled pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- Q. Cleaning and flushing shall be carried out in sections as the installation becomes completed

- P. The Contractor shall carry out hydrautic 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 instalted and shall be completed before chases in 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. Orainage 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 bends, 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 steal. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and targer and at changes in direction of piping. Install concrete inserts before concrete is placed fasten inserts to forms and install reinforcing bare through openings at top of inserts.
- 9B, Install hangers and supports so that piping live and deed loads and stresses from movement will not be transmitted to connected equipment
- CC Install hangers and supports to provide Indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

VI. ELECTRICAL WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable)
- B. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- D Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanilke 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 FEEE 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
 - ii. Outdoor Locations: NEMA 250, Type 3R.
 - iii Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
 - iv Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
 - Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
 - F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
 - F.2.3 Hinged Front Cover. Entire front trim hinged to box and with standard door within hinged trim cover.
 - F.2.4 Skirt for Surface-Mounted Penelboards. Same gage and finish as panelboard front with lianges for attachment to penelboard, wall, and ceiting or floor.
 - F.2.5 Gutter Extension and Barner: Same gage and finish 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 steal Same finish as panels and frim.
 - It. Fungus Proofing. Permanent fungicidal treatment (or overcurrent protective devices and other components.
 - F.2.7 Directory Card. Inside panelboard door, mounted in fransparent card holder metal frame with transparent protective cover.
- # 3 Incoming Mains Location Top or Boltom.
- 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; bended 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 leads.

VERGEL JEROME A. MAPILI Planning and Programming Division

JOCELYN A. NAONG
Planning and Programming Division



Republic of the Philippines Quezon City

CITY ENGINEERING DEPARTMENT



Civic Center Building B. Quezor, Crty Half Compound, Elliptical Road Diliman, Control 1100 Quezon City Trunk line: +63 2 8988 4242

PROJECT NAME: LOCATION:

PROPOSED REHABILITATION OF PINYAHAN DAYCARE CENTER BARANGAY PINYAHAN, DISTRICT 4, QUEZON CITY

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

GENERAL REQUIREMENTS.

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- 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 progress of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / inspection shall be conducted to validate the scope of works. No extra
 compensation and extension of time shall be given due to negligence or inadvertence.
- f The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as 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 office 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.
- Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- 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.

- II. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- iii. Temporary utilities shall be sufficiently provided until the completion of the project such as weter, 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 entire construction period.
- vi Upon completion of the work, the temporary facilities shall be demolished, hautedout 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 Aids shall be employed permanently on the site who shall be engaged solely from medical dubes
 - 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
- 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 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.
- 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 backfilts shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

III. CIVIL / STRUCTURAL WORKS

A. ROOFING WORKS

The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purious with min. 2 ½" max. 3" fong Tek sorews. Ridge rolfs, hip rolls and valleys to be used shall be those compatible with the Gs. 24 pre-painted G.I. rib-type roofing sheets. They shall say 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 purims with min. 2 ½° max. 3° long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall tep the roofing sheets at least 250mm. The noge rolls, hip rolls and valleys shall be inveted to the roofing sheets.
- c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain Gif, 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.

B. WATERPROOFING

a Waterpropfing:

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

b Testing:

Test waterproofed area by sevenly-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. PAINTING WORKS

- All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- 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.
- d. 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 firesh 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.
- 9 All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules regulations and requirements of the utility companies (as applicable).
- B. Supply installation and testing of the following.

- 8.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all eccessories required for complete and operational of the system.
- B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
- B.3 Soit 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, submittats, 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 personnal.
- O. 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 apace 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 errangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional meterials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for exemination and deteils shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shell 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 satisfactionly within the requirements of this Specification and local regulations.

- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U Drainage pipe shall be tested by filling the pipe with 3m of water higher than the test section and wart for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by draiding 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 bends, and similar units
- Z Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- 88. 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 provide deflections allowed by ASME B31.9 for building services piping

VI. ELECTRICAL WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- D Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent 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 18 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 Reled for environmental conditions at installed location.
 - Indoor Dry and Clean Locations. NEMA 250, Type 1.
 - Outdoor Locations: NEMA 250, Type 3R.
 - Kitchen and Wesh-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 Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
 - F 2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
 - F 2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
 - F 2.4 Skirt for Surface-Mounted Panelboards Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
 - F 2.5 Gutter Extension and Barrier. Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
 - F.2.6 Finishes
 - Panels and Trim: Steel and gelvanized steel, factory finished immediately after cleaning and prefreating with manufacturer's stenderd two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
 - ii Back Boxes: Galvanized steel Same finish as panels and fnm.
 - Fungus Proofing: Permanent fungicidal treatment for overcurrent profective 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.
 - Adequate for feeder and branch-circuit F.42 Equipment Ground Bus equipment grounding conductors; bonded to box.
 - Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: F.4.3 Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

Checked by:

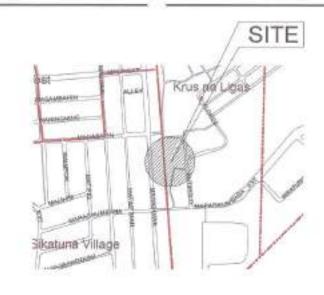
Prepared by:

VÈRGEL JERQME A. MAPILI Planning and Programming Division

JOCELYN A. NAONG Planning and Programming Division

Section VII. Drawings

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



VICINITY MAP

NOT TO SCALE:





TABLE OF CONTENTS

	ARCHITECTURAL
	LDCATCH NO
Alles	VICINETY NOW
	PERMITTER
AE-0Z	SITE DEVELOPMENT PLAN
-	FLOOR PLAN
AR-03	REPLECTED CELLING PLAN
0.1555	ROOF PLAN
Allida	PROME SLEWATION
200	REAR ELEXATION
	LEFT SIDE ELECTIVE
	RIGHT BIOC CLEANTIGH
A8-83	CROSS SECTION
22.67	LONGITUDINAL SECTION
AR-05	SCHEDULE OF SUCH
	DECRY OF FLAN OF SNORTH COLMER
ARGE	AND HANDING CHIRWY
	UNDER COUNTER AND HANDONG CARRIET IS:
	S'EANDING CHRART DETAIL
AR-DE	TOILET DETAILS
raree .	LETTERNIC DETAILS
A8-09	ELINATION OF FRACE
Sec. at	DETAIL OF BROSPLASS
	STRUCTURAL
	LHIOLE SIRK POWEARLE
5741	HAME ANSHERS STALL PLAN
	ELINATIONS A SECTION
	PLUMBING / SANITARY
1921	GENERAL NOTES & LEGENSS
PLOT	SECURD FLOOR SANDARY LINE
PL-GZ	SHOWER FORM WASHINGTOWN
	ELECTRICAL
	SENION NOTES
esat	LESGING AND SYMPLOX
2001	MIS CELLAMETORS DETAILS
	TUONAL GRETTEG LAYOUT
FR-CUT	SANCEST SANCE DESCRIPTION AND ADDRESS.

EXISTING POWERLANCE

PROPOSED LIGHTING LAYOUT PROPOSED POWER LAYOUT

LOCATION MAP

NOT TO SCALE

PERSPECTIVE

DATE: 700001

SCALE: 1.80M

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROJECT TITLE

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF KABALITANG

DAY CARE CENTER

CHECKED BY HEVISION NO: BARANGAY KRUS NA LIGAS, DISTRICT 4 QUEZON CITY-

DRAWN BY: DIC SUBMITTED BY:

ENGR, LIJO S. DEL ROSARIO HORNO DEMANDOPER DEMAND, CHE

ENGR. ISANOW R. VERZOSA, JR.

RECOMMENDING APPROVAL:

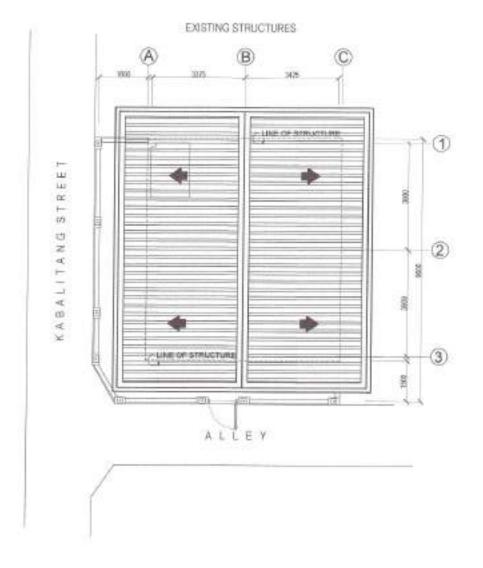
APPROVED BY:

HON, MA JOSEFINA G BELMONTE CITY MOVOR

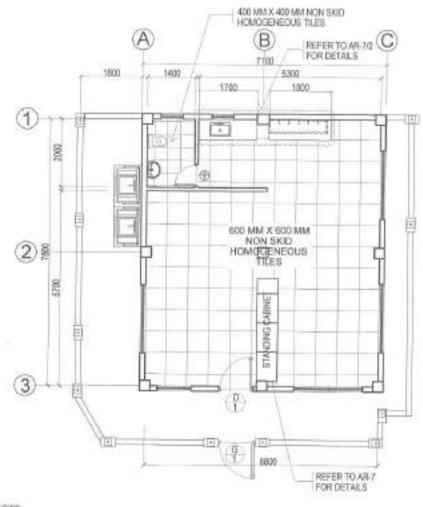
MONITY MAP LOCKTION WAP PERSPECTIVE. AR-01 01 15

SHEET NO.

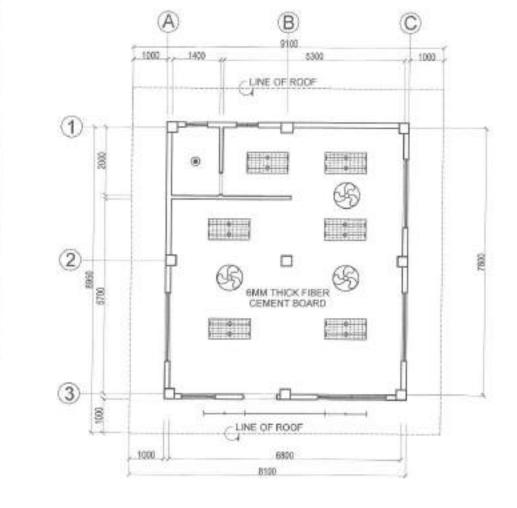
SHEET CONTENT



SITE DEVELOPMENT PLAN SCALE 180M DOWNERS COOK SUBMITTED BY PROJECT TITLE RECOMMENDING APPROVAL: APPROVED BY: SHEET CONTENT SHEET NO. PROPOSED CONSTRUCTION OF Republika ng Plipinas DATE: 208/21 Lungsoding Quezon HAND WASHING FACILITY AND AR-02 REHABILITATION OF KABALITANG CITY ENGINEERING DEPARTMENT CHECKED BY: BITE DEVELOPMENT PLAN DAY CARE CENTER EVGR US GANI R. VERZOSA, JR. ENGR. LEG S. DEL ROSARIO 02 15 HON, MA JOSEFINA & BELMONTE LOCATION: BARANGAY KIRLIS NA LIGAS, DISTRICT 4 GUEZCHI CITY, BEVISION NO.:



- WHOLE STRUCTURE TO BE REPAINTED.
- 2. FLOOR AND WALL TILES TO BE REPLACED. 3. CONSTRUCTION OF HAND WASHING FACILITIES.
- 4. ALL PLUMBING FIXTURES TO BE REPLACED.



1. EXISTING CEILING TO BE REPLACED

FLOOR PLAN

SCALE: 1:80M

REFLECTED CEILING PLAN

SCALE 180M

SHEET HO.

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF KABALITANG

DAY CARE CENTER/ LDCATION: BARANGAY KRUS NA LIGAS, DISTRICT 4 QUEZON CITY PROFISION NO.

DRAWNBY, DX C BUBWITTED BY:

DATE: TORUS John T

ENGR. LEG S. DEL ROSANO

ENGR. ISAMANI R. VERZOSA, JR.

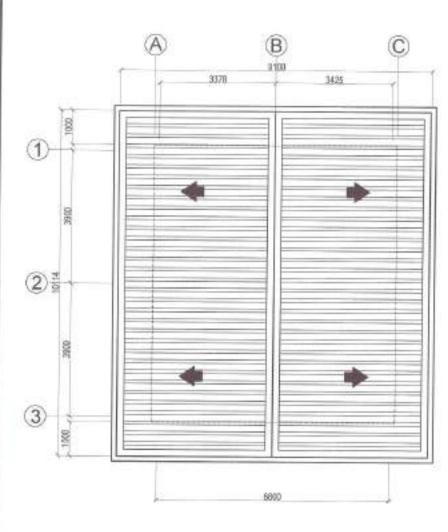
RECOMMENDING APPROVAL

HON, MA JOSEFINA G BELMONTE CITY MANUAL

APPROVED BY :

LEFT SIDE ELEVATION AR-03 TOHT SER ELEVATION LONGITU DINAL 03 15 BECTION DROSS SECTION

BHEET CONTENT:

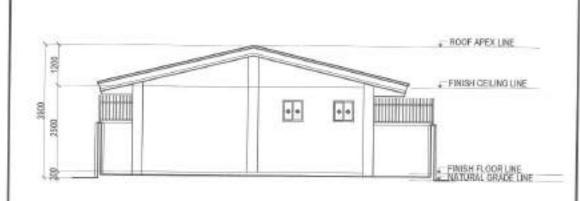


1. ROOFING AND ACCESSORIES TO BE REPLACED.



FRONT ELEVATION

SCALE 1:80M



APPROVED BY:

- ROOFING AND ACCESSORIES TO BE REPLACED.
 EXTERIOR WALL TO BE REPAINTED.

ROOF PLAN

Republika ng Pilipinas Lungsod ng Quezon

BCALE: 180M PROJECT TITLE:

REAR ELEVATION

SCALE: 1:80M SHEET NO.

SHIDET CONTENT

CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF KABALITANG DAY CARE CENTER LOCATION BARANGAY NIPUS NA LIGASI, DISTRICT 4 GLIEZON GITY

DRAWWEN DX SUBMITTED BY: DATE: 70921 CHECKED BY: BENISON NO.

ENGR. LEO S. DEL ROSARIO

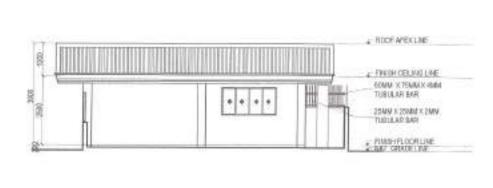
ENGR. ISAGANI R. VIIRZOBA, JR.

RECOMMENDING APPROVAL:

FRONT EVENTOR REAR ELEWITON HON, MA JOSEFINA G BELMONTE OTHERS.

AR-04 04 15





RODEAPDOLINE FINSH CIBUNG LINE SUMM X 25MM X 6MM TIMULERRAR 25MH × 25MM × 25MH TUBULUR BAR MAT DEBUTE TIME

1. ROOFING AND ACCESSORIES TO BE REPLACED. 2. EXTERIOR WALL TO BE REPAINTED.

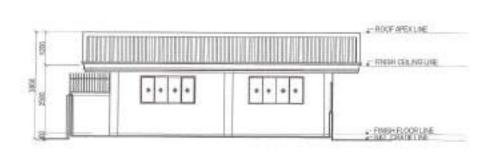
LEFT SIDE ELEVATION

1. ROOFINS AND ACCESSORIES TO BE REPLACED. 2. EXTERIOR WALL TO BE REPAIRTED.

SCALE: 1:100M

LONGITUDINAL SECTION

SCALE 1:100M



ROOF APEXLINE HINSH CELLING LINE

1. ROOFING AND ACCESSORIES TO BE REPLACED.

2. EXTERIOR WALL TO BE REPAINTED.

ROOFING AND ACCESSORIES TO BE REPLACED.
 EXTERIOR WALL TO BE REPAINTED.

RIGHT SIDE ELEVATION

SCALE: 1:100W

CROSS SECTION

SCALE: 1:100M

SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE !

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF KABALITANG

DAY CARE CENTER > LOCATION: BARANDAY KRUS NA LIBAS, DISTRICT 4 QUEZON CITY

DRAWN BY: DIX GUNNITED BY: DATE: 7/28/21

CHECKED BY REPUBLICAN NO.:

AN ENGR. LEG S. DEL ROSANTO

ENGR. IEARON R. VERZOSA, JR.

REDOMNENDING APPROVAL:

HON: MA JOSEFINA G BELMONTE CLAINWAN

APPROVED BY :

LEFT SIDE ILLEWITON GHT DIDE ELEWITO LONGITUDINAL SECTION CHOSS-BECTION

SHEET CONTENT

AR-05 05 15

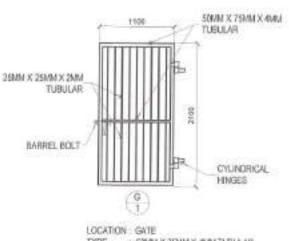


LOCATION: MUNDOOR PANEL DOOR

SET 1.1



LOCATION: TOLET PVC DOOR 11



TYPE 500M X 75MM X 40M TUBULAR

29MM X 29MM X 2MM TUBULAR

SHEET CONTENT

SET 1.1

SCHEDULE OF DOORS

SCALE: 1:40M



Republika ng Pilipinas Lungsoding Queron CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF KABALITANG DAY CARE CENTER LOCATION: BARANGAY KRUS NA LIGAS, DISTRICT 4 QUEZON CITY

ENGR. LEG S. DEL ROSARIO

CRAWN BY DX SUBMITTED BY:

DATE: 70921

CHECKED BY:

REVISION NO.:

ENGR SAMAM R. VERZOSA, JR.

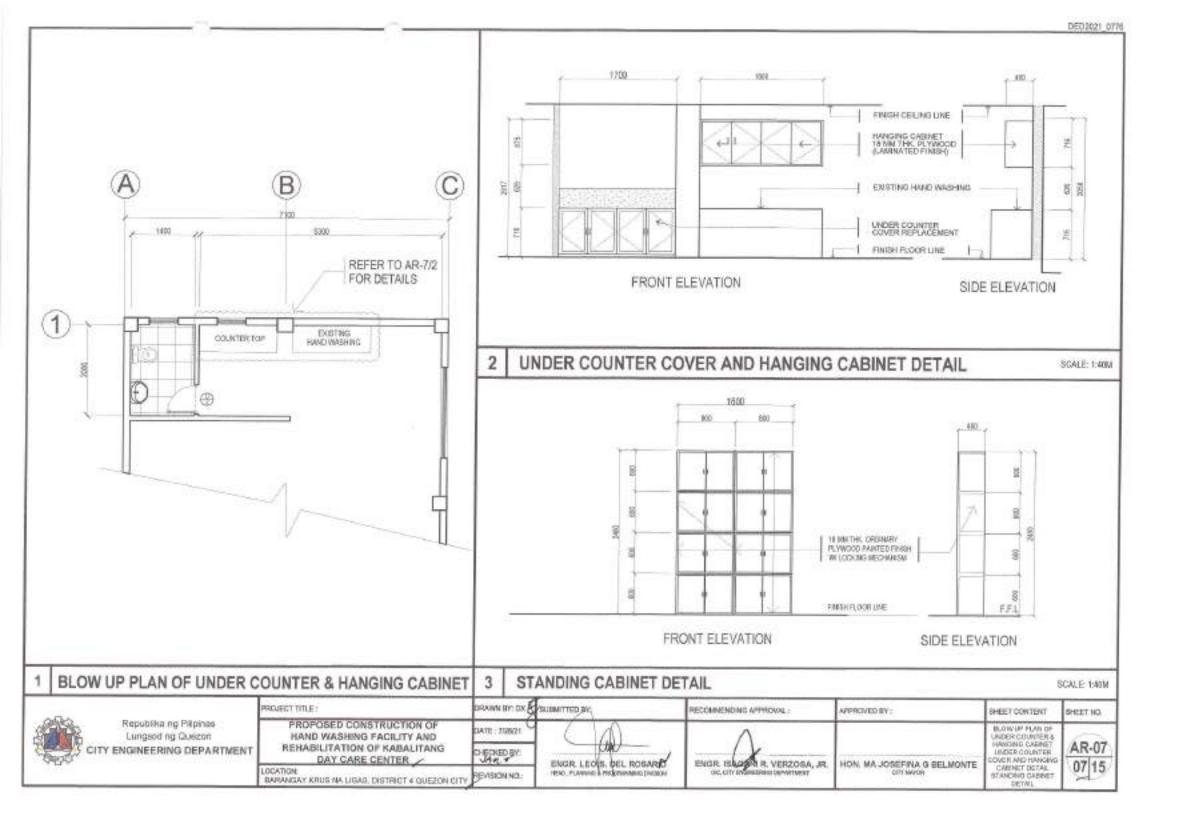
RECOMMENDING APPROVAL:

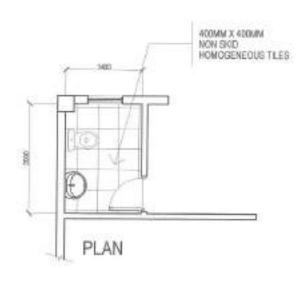
NO-EDULE OF DOORS HON. MA JOSEFINA G BELMONTE

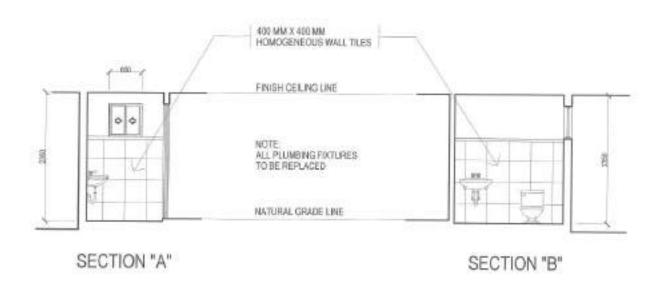
APPROVED BY:

AR-06

SHEET NO.

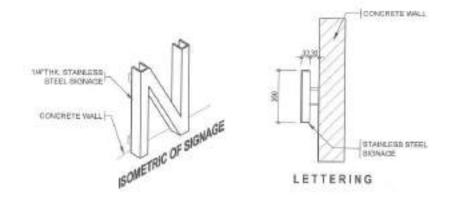






1 TOILET DETAIL

SCALE 1:50M



2 LETTERING DETAILS

SCALE: NTS

SHEET NO:



PROJECT TIBLE:	DRAWN BY: DX	визметтро еу:	
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND	DATE: //08/21		
REHABILITATION OF KABALITANG DAY CARE CENTER/	D-ECKED IOU	ENOD LED	
LOCATION; BARANGAY KRUS NA LIGAS, DISTRICT 4 QUEZON CITY,	BEVISION NO.	HEADT, PLANNING	

+	- / \ -
╛	(100)
٦	LIMO -
1	ENGR. LEG S. DEL ROSARIO HAD RAMINGATED MINISTRADO

1	1
I	FROM INCOMES VEDTOSA IN
ı	OC, CITY SECURENCE CHARACTERS

RECOMMENDING APPROVAL:

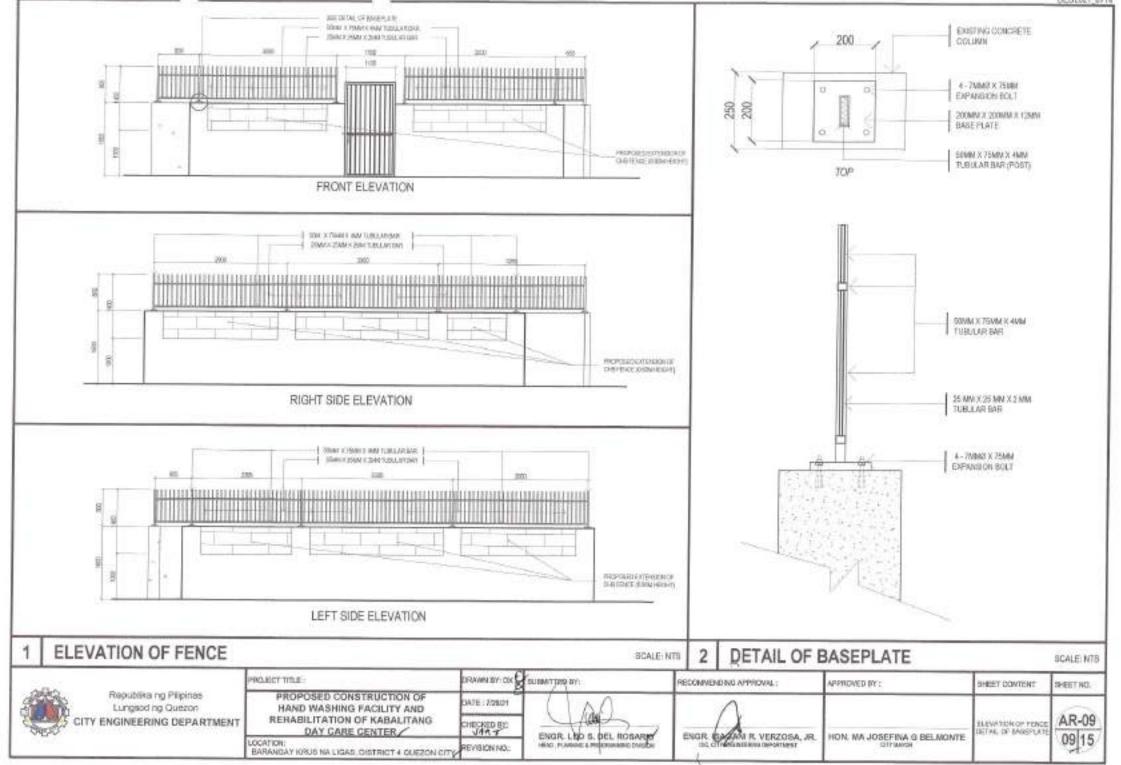
NT

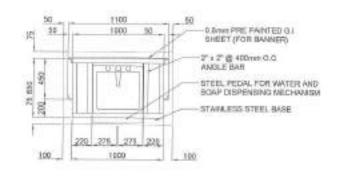
APPROVED BY:

DETALF TOLET DETAL OF GONAGE 08 15

SHEET CONTENT







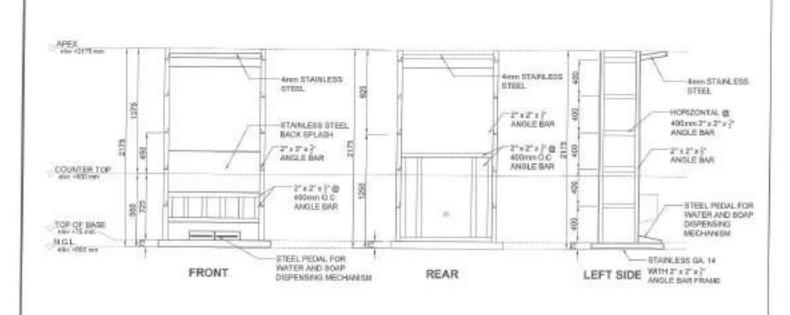
PLAN

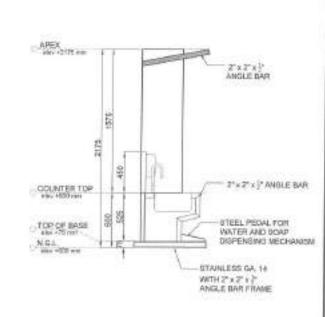
2 x 2 @ 400 mm 0.0 ANGLE BAR

ROOF PLAN

1 SINGLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE 1/30HB





2 ELEVATIONS

SCALE: 130182 3

RECONNENDING APPROVAL:

TYPICAL SECTION

APPROVED BY:

SCALE: 1:30nes BHEET NO.

Republika ng Plipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REMABILITATION OF KABALITANG CHECKED BY LAW CHECKED BY LOCATION:

BARANGAY KRUS NA LUBAS, DISTRICT 4 GUEZON CITY, BEVISION NG.:

BARANGAY KRUS NA LUBAS, DISTRICT 4 GUEZON CITY, BEVISION NG.:

ENGR. LEG S. DEL ROSARIO

ENGR. ISANARI R. VERZOSA, JR.

HON, MA JOSEFINA G BELMONTE

GTHANGS

ST-01 10 15

SHEET CONTENT

If All planting having and incomedia forested leaver studies command to the incomerce of the studies of National Physics (Code, the rate out application of boal authorities constrained the size analogo-alliest at least all bear particularly to proceed out by less processes also and and whose against in

A The planting tupor is any diagrament is pure, changes not does referred to company according printing if it not intermed to show the actual stimulation of the pipes and forces, is the steak plant at this egyand fallent that he collaborates and above indicated. Any obsession will report a proper count for it relation with

Effectiviting collectivities of widely although the elected and assessed be not whole name.

(Pyro dyl) to be attended it another reviews a new returner speciment about

5 Mileton state for complete states that shallow the profits distributed by the

If Propositioning Wiles and server are he and home, not account styles of \$1 miles passesses.

If I to rection of between appears of Magazine are virus in over-allerine's specification

in dust for familiar district four insulations of any contraction provided with pullment cover page. In red total floor districts accept at from the proofer and service under our put; and to mallic

#Attackground C1 ages in that metallish oil staffin provide with the JS book of potential in coming accompanions. principal Montagets contact in the or explicit

\$1 Process and least and part paint for your of each two morns which as request.

25 for the page and the of page and page and in page 25 are the same and be assumed as a page 45 U.S.

18 Person gate reduced residuates pupply from to factories.

18.96 had harbor street street (on principle Parks (or how recombine service regional

H. It industral transfer is between your of live an order approved startle accorded with an insuface or warm. AND POSTORES OF MANAGEMENT

H + 450 mm for 12 mm Cland Scott

Fire Billion to be \$2 mm (Figure about).

Minimized the draft on Flores SIGN IX prices of remain extent.

Shift passed made best will one tigher have be apriled pays solve in 20 to higher been the sales pays.

Will be a property of the prop Matter Plattack or Registered Souther Engages. Any decreptional closed in plan shallow collect to his rams passes.

PRINTINGS AND OTHER LEGEND

NO:	FLOOR DRAIN ROOF DRAIN
NIC LAV	SHOWER WATER CLOSES LAWATORY
MRI WS	UNIVAL KITCHEN SINK
80	SULDING DRAW
000	CELLING CLEAVOUT

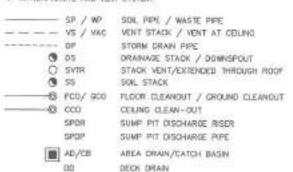
PLOCHICATOURS DLEANOUT

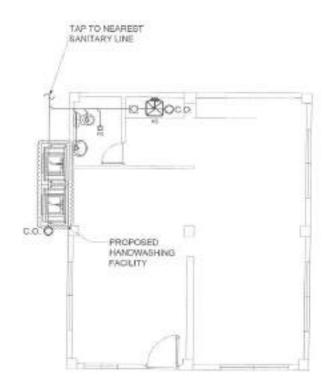
DOWNSPORT

new DAMMETER SHOWER CRAIN -CB CATCH BASIN READ-CILE

> DRECTION OF FLOW GREASE TRAFF

I DEWERYWASTE AND VEVI SYSTEM:





GENERAL NOTES & LEGENDS

GROUND FLOOR SANITARY LINE LAYOUT

SCALE: 1.00M

SHEETING



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE:

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

BARANGAY KRUS NA LIGAS, DISTRICT 4 QUEZON CITY

DRIVING THE BUSINETED BY

DATE: 70390H CHECKED BY: 440 T REVISION NO. ENGR. LED S. DEL ROSARGO

HEND, PLANANC & IMEDITARINA DISCRETE

RECOMMENDING APPROVAL

ENGR. ISAMAIR, VERZOSA, JR. DICLETY ROOMWHERE DEPARTMENT

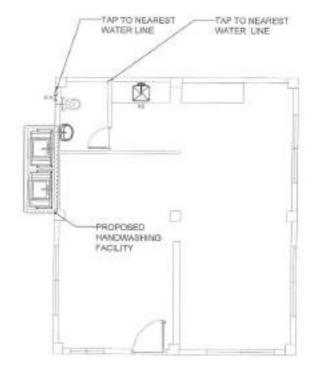
CITY MAYOR

APPROVED BY:

DENERAL NOTES & LEGENDS HON, MA JOSEFINA G BELMONTE

SHEET CONTENT

PL-01 11 15 BROUND FLOOR SANITARY LINE



GROUND FLOOR WATER LINE LAYOUT

SCALE: 199M

SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

ı	PROJECT TITLE :
Ì	PROPOSED CONSTR
ı	HAND WASHING FA
1	REHABILITATION OF
1	DAY CARE CE

n	CCY WILE:	
_	PROPOSED CONSTRUCTION OF	
	HAND WASHING FACILITY AND	
	REHABILITATION OF KABALITANG	
	DAY CARE CENTER /	

LOCATION: BARANDAY KINUS NA LIGAS, DISTRICT 4 QUEZON CITY.

And	(lal
	And

DRAWN BY: OX SUBMITTED BY:

DATE: NOAZE

CHECKED BY:

REVISION NO.

1	Λ
1	-//
1	ENGR. HANDANIR. VERZOSA.

RECOMMENDING APPROVAL

HON, MA JOSEFINA G BELMONTE

APPROVED BY:

ORGUND FLOOR WATER LINE LAYOUT

SHEET CONTENT

PL-02 12 15

- AL ELECTRICAL MOVES SHALL BE BOILD IN DOCUMENTO THE PROVISIONS OF THE LANGER REPTING OF THE PHEAPINE ELECTRICAL CODE, THE LANGER HIG OF BRANCES OF THE LOCAL CODE ENFORCES AUTHORITIES AND THE REQUIREMENTO OF THE LOCAL POWER AND TRESPHONE LITELY COMPANY.
- 2 THE COMPACTOR SHILL SECIRE ALL PRINCES AND FAVYALL FIELD REQUIRED FOR THE WORK AND SHILL PLANSED HE COWNER THROUGH THE CHOICEPS, FISH, CORTERIANS OF ELECTRICAL RESPECTION AND REPROVAL HIGH PROPERTIES CONTRIBUTED FOR COMPLETION OF BUSIN.
- ALL EMBRODED BRANCH DIRECTES SHALL BE PICCOMPUTE AND POR EXPOSED INSTALLATION SHALL BE SMY ON MC SUPPORTED BY CONDUIT CLAWAS ENERGY TO BRANCE 1989
- 4. PLAL BOYES SHALL BE PROVIDED BY THE CONTRACTOR WIFER HENCESSMY TO PACULATE WIFE PLALMOCHERS THESE ARE NOT RESEARCH ON THE PLANE. INCRESS OF ALL PLALMOSES SHALL BE CORPORED GASED ON THE CODE SELECTIONARY SUBMIT SHAP (PARAMEST TO THE PROPERTY FOR APPROVED BY THE ARCHITECTEMBED WASHAUST BE PETECTED BY THE TRAME.) PLAN.
- S. ALL POWER GUTLETS AND SWITCHES SHALL BE DROUNDING TYPE WITH PAULUSE SLOTS FOR SMY.
- 8 PROVIDE GROUND FAULT CLERENT INTO REPORT ER CIRCULT BREWEST FOR LOADS WARRED TOTO" ON THE PURE.
- 7. ALL METALLIC COMBUTTY, CABMETT AND EXEMPENT SHALL BE PROPORTLY SHOURDED AND SONDED.
- 6. VIREES DEVERWAS NOTED, MOUNTING HEIGHT FOR WALL BOUNTED DEVICES HALL BE ASSOLDING

RESEMANTE CITLET - 300 MM APT , 150 MM 480 VIL WORKING COLLIGER LIGHTING OWN CH - 100 MM APT PAYRESCHIO - 100 MM APT

- METER TOMOCHARGAL PLIABERO AND FRE PROTECTION GRAWAGE FOR HATTING MID LOCATIONS OF EQUIPMONT ADMICS AN THER CONTROL SEQUENCES.
 AS OFFICIALD AND CRESHOWN DESCRIPTIONS SECTIONS.
- WE ALL MATERIALS TO BE USED SHALL BE OF THE SELECTIONLY, WINNESS WAS SPECIFED.
- III. THE DRAWNISH AND SPECIFICATIONS ARE INTOXICS TO PRESENT SCIEDAL LAYOUT AND BROWN CULTURED SCIENCING OF THE PROJECT BUT DO NOT ABCORDANCY RESOURCE SCIENCE ACTUAL LOCATIONS, LEVEL AND DETAILED OF THE COMPACT THE CONTINUED IS HEARIN REQUIRED TO MAKE MUCH ADALESTMENT AT THE CONTINUED AS A DISCREPANCE AND LOCATION, DETAILED AND LOCATION, DELD CONTINUED AS A DISCREPANCE OF THE CONTINUED AND CONTINUED AS A DISCREPANCE OF THE CONTINUED AND CONTINUED AS A DISCREPANCE OF THE CONT
- 12. ARY DECREPANCY DETRICTS THE PLANS AND SPECIFICATIONS SHALL BE EXCUSED TO THE ATTENDED OF THE ANDMEDITION OF METAL STREET, AND THE PLANS AND SPECIFICATION OF THE ADMEDITION OF THE ANDMEDITION OF THE ADMEDITION OF THE ADMEDITATION OF THE ADMEDITION OF THE ADMEDITION OF THE ADMEDITATION OF THE ADMEDITION OF THE ADMEDITATION OF THE ADMEDITATION OF THE
- 12 ALL OFFIND AND CONVENENCE CUTEST CITIZETS SHALL BE 15 SQ NM. THAN 2 COPPER WAS LAKESS OFFERINDE NOTICE MINIMUM DESCRIPTION AND CARLES SHALL BE COLDINATION OF POLICIES.

LINE 1-RED LINE 1-YELLOW NEUTRAL-WHITE OROUND CREEK

14 BOYES, WINE, OUTTERS, ENCIORING SHALL BY TABRICATED INSMHEIFER, WITH THIS MESS AS FOLLOWS.

MICHABLE WOTH OF THE WIDEST SUSFICE STEEL

UP TO INCLUDENCE YES REMAND.

OVER 155 ROMA BUT NOT CHIST BELIEF.

GA 19 PAINTED WITH METAL PRIMER EPOXY AND TOPOCAL GA 19 PAINTED WITH BETAL PRIMED EPOXY AND TOPOCAL

OVER ASSUREM BUT NOT OVER NEIMA

GA 13 PAINTED WITH METAL PHINEH EPOUP AND TOPOGRE

OVER TILLIAN

GA 18 PAINTED WITH MCTAL PRIMOR EPONY AND TOPODAT

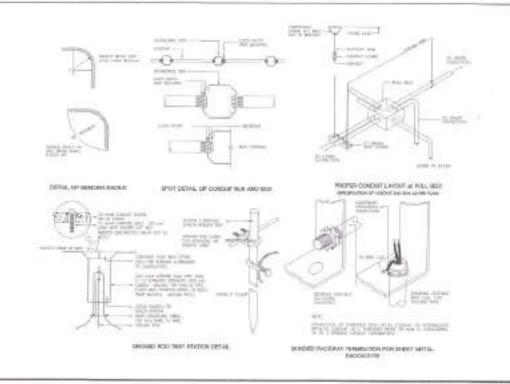
- ALL ELECTRICAL WORKS REPEAL BALL SE EXECUTED BY EXPERIENCED HAVE A THE OPERAT SUPPLYSION OF A FULL THE LICENSED FLECTRICAL ENERGY AND A FULLY SOCKESTED ELECTRICAL CONTRACTOR BY PORE SYDERS WANT DE MOTOR ACED, BIOLOGY, MISTENES AND PROPERLY FRANCED.
- 18. THPE OF SERVICE ENTRANCE SHALL BE SHALLE PAVAIR, TWO WEE PLANDROLLED, MINEREZ 2007 ACTIVISMENT.
- CONDUTTERVIND CASE SHALL THERE BE MORE THAN THE COLUMNIST OF FOR QUARTER SENSE SHALV (ME FLM. 4); CONDUT SENSESSHILL BE I'VE DAMOS.
 SYLVERIS HYDRALLO BE NEEDS, MINIMAN BEACHES HARDES BASINESS TO THE CODE RECORDINARYS.
- 18. UPON CONFILETION OF ELECTRICAL CONSTRUCTION NORK, INSULATION RESISTANCE TEST AND FUNCTIONALTY TEST SHALL BE FER CRIME) BY THE SOMEWANTON REQUISION OF THE INSTALLATION TO BE REPORTED IN DETAIL A DIFFERENCE THAN SO IN BE QUIZZON STYLD CONSTRUCTION OF THE REPRESENDATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT DESIRED THAN SO IN BECOME COMMUNICATION OF THAN SO IN BECAUSE OF THAN SO IN BECAUSE OF THE CONTROL OF THAN SO IN BECAUSE OF THAN SO IN BECAUSE OF THE CONTROL OF THE CONTR

LOCATION

0	Digitis Convenience Outlet	8	Orbit Fair with Soluctor Switzh
•	World (ED Prigt	S.	One Going Sellah
	1200mm x 600mm LED table in Troffer Falture	S2,	Two Gung Switzs
	Notifier Till LEO Tube Box Type Lighting Finlane	S1,	Time Geng Switch
簽	64v LED Light Bulb in Plantic Receptority	100,	Altiture Dudet

2 LEGENDS AND SYMBOLS

BCALE: NTB



GENERAL NOTES

SCALE: NTS

DRAWN IN: DX SUBMITTED-10:

CONNECTION DETAILS

SCALE-NTS

SHEETING.

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE :

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

BARANGAY KRUS NA LIGAS, DISTRICT 4 QUEZON CIT

CHECKED BY:

REVISION NO.:

ENGR. LEG S. DEL ROSARIO

RECOMMENDING APPROVAL

ENGRESSA JR. VERZOSA JR.

A. JR. HON. WA JOSEFINA G BELMONTE

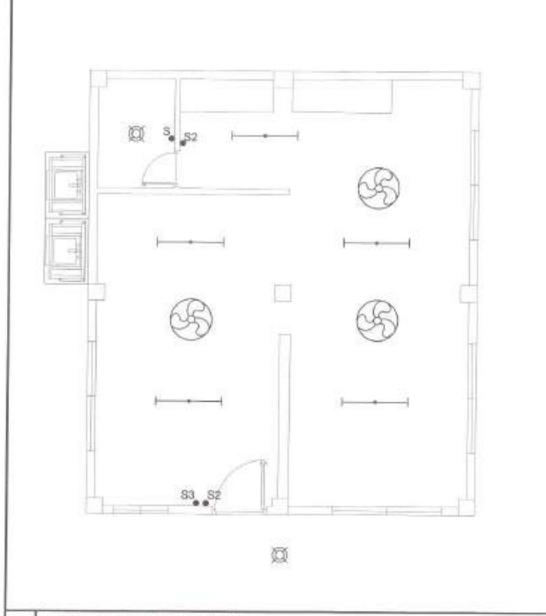
APPROVED BY:

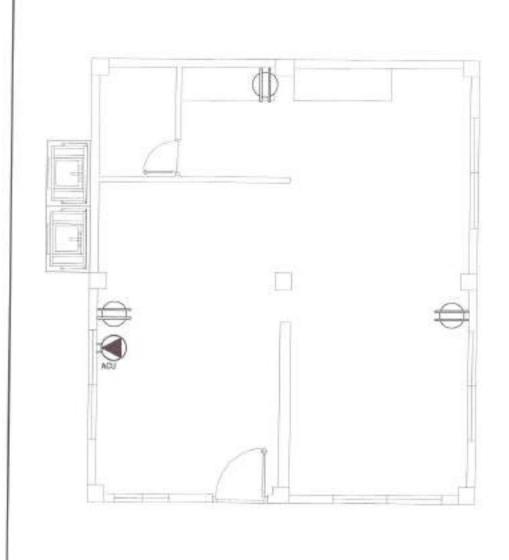
GENERAL NOTES LEGGINO AND SYMBOLIS WISCRELANDOUS OFFICES

SHEET CONTENT

EL-01







EXISTING LIGHTING LAYOUT

SCALE 1.50M

DRAWN BY DX SUBMITTED BY

EXISTING POWER LAYOUT

SCALE 1:50M

SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon Y ENGINEERING DEPARTMENT PROJECT TITLE:

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

SHECKED BY: LOCATION: BARANGAY KRUS NA LIGAS, DISTRICT 4 QUEZON CITY REPARTMENT NO.:

DATE: 72821

ENGR. LEG S. DEL ROSARIO

ENGR-HAGANI R. VERZOSA, JR.

RECOMMENDING APPROVAL

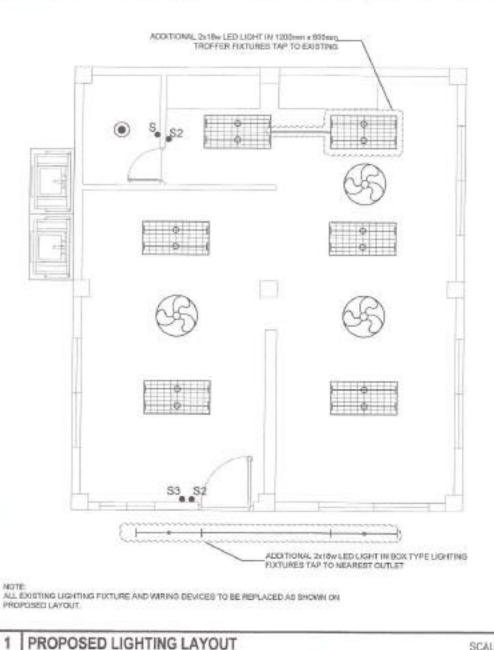
HON, MA JOSEFINA G BELMONTE

APPROVED BY:

EXETING LAYOUT EXETING POWER LAYOUT

SHEET CONTENT





SCALE: 1:50M

PROPOSED POWER LAYOUT

ALL EXISTING WINNIG DEVICES TO BE REPLACED AS SHOWN ON PROPOSED LAYOUT.

SCALE: 1:50M

SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

HON, MA JOSEFINA G BELMONTE

CETY MUZOR

APPROVED BY:

PROPOSED LIGHTING LAYOUT PROPOSED POWER LAYOUT

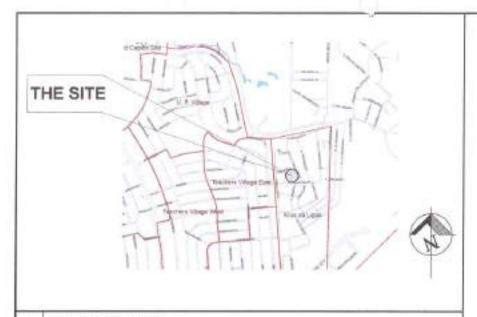
SHEET CONTENT

EL-03 15 15

DRAWN BY: 0X SUBWITTED BY: PROJECT TITLE: PROPOSED CONSTRUCTION OF DATE: 7/28/25 HAND WASHING FACILITY AND REHABILITATION OF KABALITANG CHECKED BY: DAY CARE CENTER ENGR. LEG 8. DEL ROBARIO LOCATION: REVISION NO.: BARANSAY KRUSINA LIGAS, DISTRICT 4 QUEZON CITY

ENGR. ISANONI R. VERZOSA, JR.

RECOMMENDING APPROVAL



VICINITY MAP

SCALE NTS.





TABLE OF CONTENTS

A	RCHITECTURAL
AR-1.	VICINITY MAP
	COCATIONPLAN
	PERIPECTIVE
AB2	SITE DEVELOPMENT PLAN
	FLOOR PLAN (DOSTING)
AR-a	FLOOR PLAN(PROPOSED)
	REPLECTED CEILING PLAY
NR4	ERONE ELEVATION
	REAR ELEVATION
	LEFT SIDE ELEWITON
Albert	PROPERTINATION
Alten.	ORDES SECTION THRU-A
	LONGFILOWAL SECTION THRU-8
	STEEL DATE AND PENCE DETAILS
	STANDAND LODG DETAILS
AB-6	SCHEDULE OF DOORS
	SCHEDULE OF WHIDOWS
AR-T	SACLE SHIC PORTHOLE HAND AND RECEIVE
	MARKET MAK CONTROLS INVESTIGATIONS WAS INCIDENTATIONS
S	TRUCTURAL
aT-t	SRIGHT THE POTT OF THE PARTY OF

ARREST SHEE PORTAGE HAND NOTHING ELEVATION

PLUMBING

GENERAL NOTES LEGENE AND GYMBOLE PLIMBNII LAVOUT GREASE TRAP DETAIL

ELECTRICAL

FLAT GENERAL HOTES LEISERIO AND SYRBOLS MISCELLANGOUS DETAILS SCHEDULE OF LOADS EXISTING POWER LAYOUT EXISTING POWER LAYOUT PROPOSED POWER LAYOUT PROPOSED POWER LAYOUT

SHEET CONTRACT

LOCATION MAP

BCALE NTS.

PERPECTIVE

BUBARTIED BY

SCALE NTS.

APPROVED BY

Acpoblika ng Pitipinas Longsoding Quaron CITY ENGINEERING DEPARTMENT PROJECT TITLE PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF KNL-CDD DAYCARE CENTER /

BRIGH KRUS NX LIGAS, DISTRICT 4 CURZONICTY.

DATE: 06.14.29 creckmin A renimboles.

promise file

ENGRALEO S. DEL ROSARIO

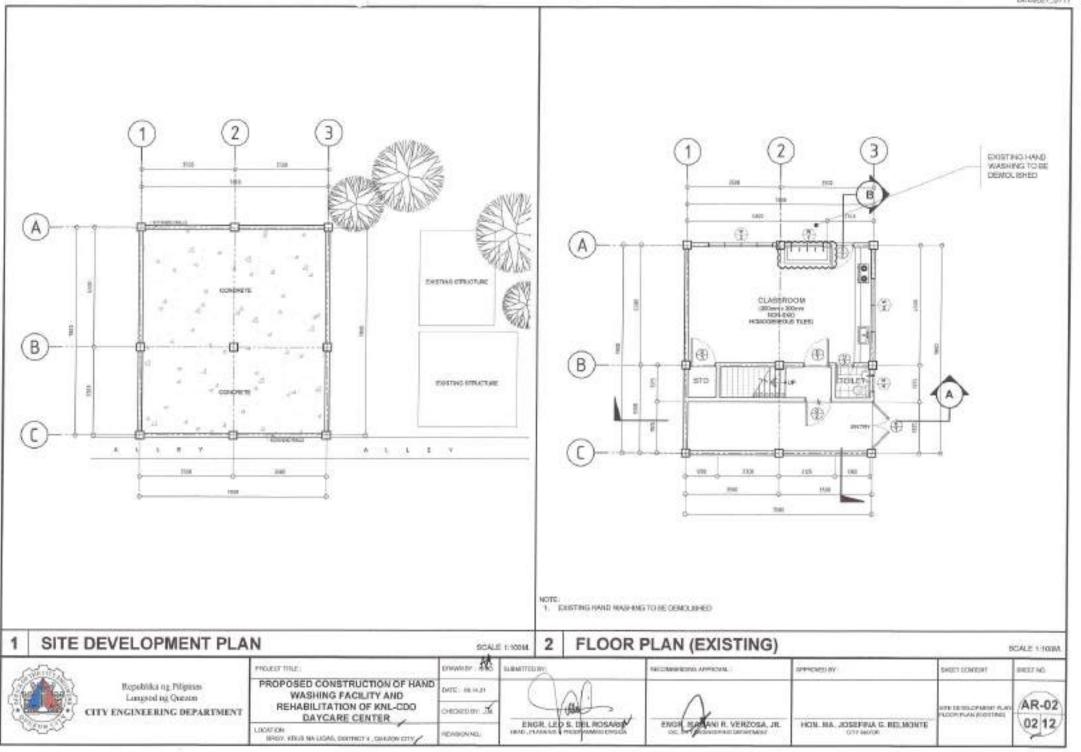
ENGR. ISSEANI R. VERZOSA, JR.

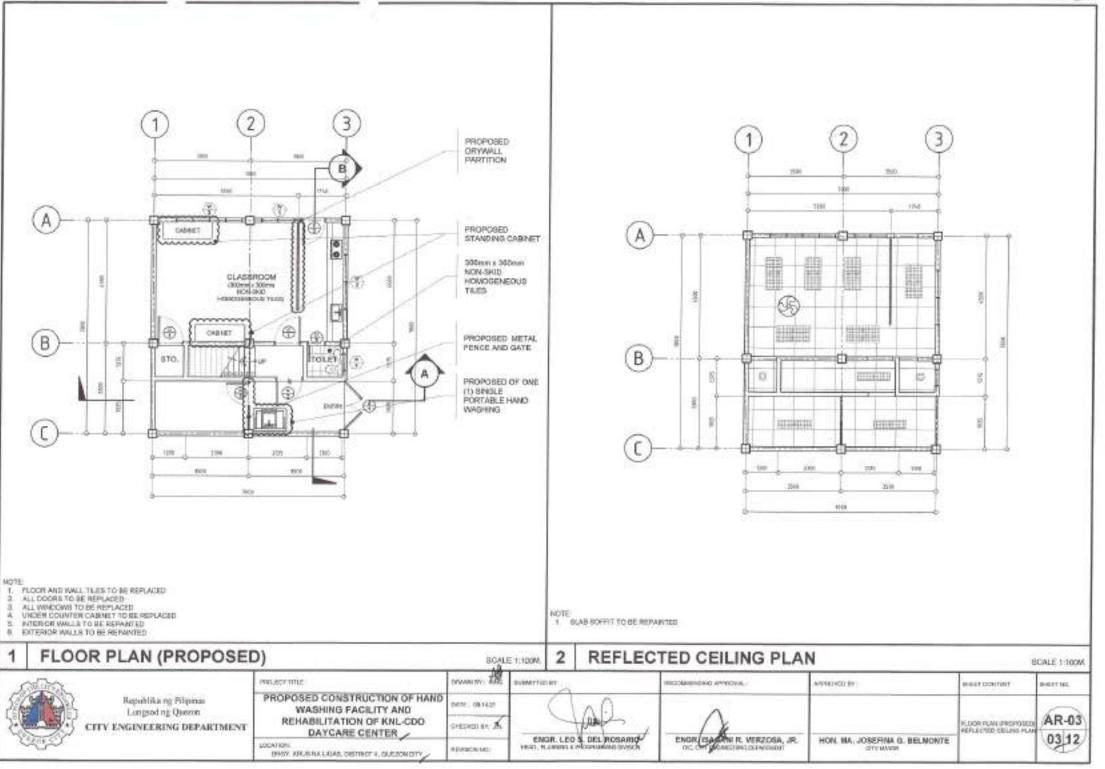
PECOMIENDAD APPROVIS.

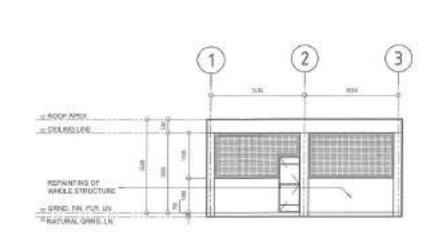
PERSPECTIVE HON, MA, JOSEFINA O, BELMONTE

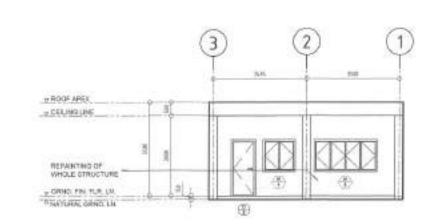
AR-01 01 12

BHREF NO.





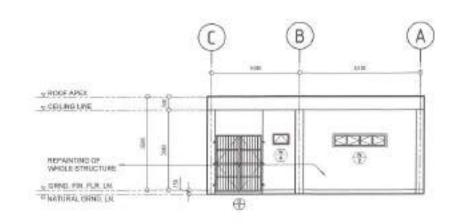


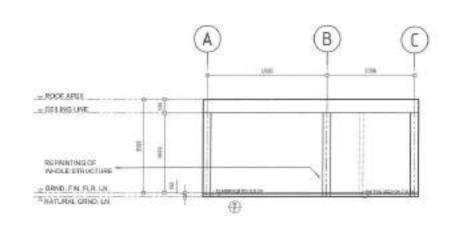


FRONT ELEVATION

REAR ELEVATION

SCIALE HISOM.





AMERICAN ST.

RIGHT SIDE ELEVATION

LEFT SIDE ELEVATION BCALE 1:100M DANGER PER CURATTER SO.

SCALE 1/199M DESCRIPTION.

BEST CONTROL

Republika ng Phyrian Langued ng Quezon CITY ENGINEERING DEPARTMENT PROJECT YOLK: PROPOSED CONSTRUCTION OF HAND SW15 : 0K1425 WASHING FACILITY AND REHABILITATION OF KNL-CDO OCCUPATION AND DAYCARE CENTER DOCUMENT REVIOUS IN

BROY KRUSHI LIGAS DETRICT L QUEXNICTY

ENGR. LEGO S. DEL ROSARIO

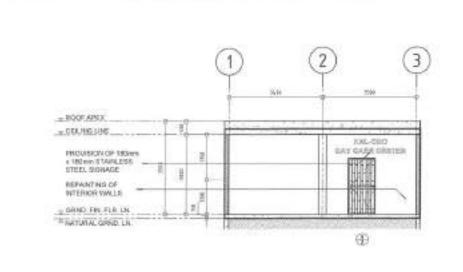
ENGIL ISANAM R. VERZOSA, JR.

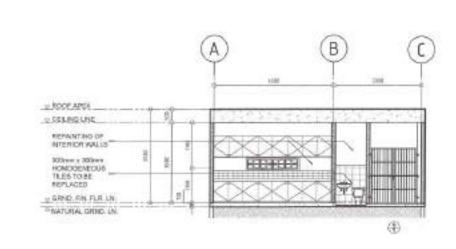
PETUMENTAL SASTEMATER

WORTH STREET WINNESS STRAUGH PERLINGS STRAUGH WINNESS STRAUGH HON, MA. JOSEFINA G. BELMONTE

CITY WHON

AR-04 04 12



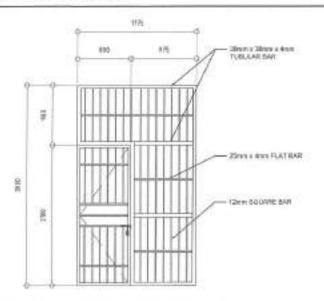


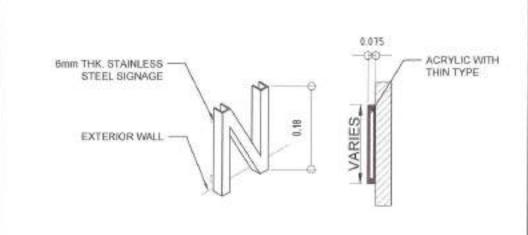
1 CROSS SECTION THRU-A

BCALE 1.100M

LONGITUDINAL SECTION THRU-B

SCALE 1300M





APPROVED BY

3 STEEL GATE AND FENCE DETAILS

SCALE 1 YOM.

STANDARD LOGO DETAILS

RECOMMENDACI APPRICATE.

SCALE NYS.

Republika ng Pilipinas Langard ng Quizon CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND
REHABILITATION OF KNL-CDO
DAYCARE CENTER

OWNER
BOAY ON SHA MAND DISTRICTS GLECKNOTY

DAVINERY AS SUMMERS OF CHARLES AND CHARLES

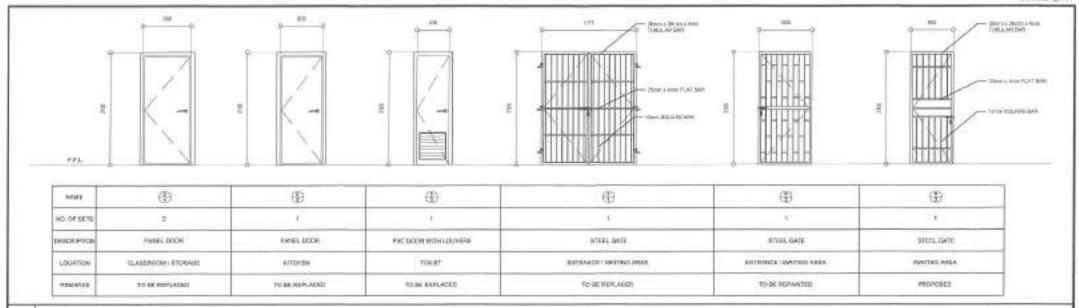
ENGR. LEO S. DEL ROSARIO



GROSS SECTION THRUS TH

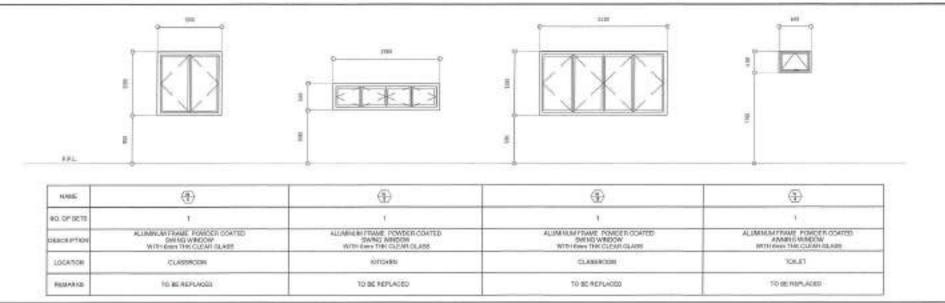
SHEET CONTRACT

AR-05



1 SCHEDULE OF DOORS

SCALE 1:50M.



2 SCHEDULE OF WINDOWS

BEALE 150M.



Republika ng Pliginin Langsod ng Quezon CPTY ENGINEERING DEPARTMENT

PROGRATIVIE:	11/9
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND	1140
REHABILITATION OF KNL-CDO DAYCARE CENTER	(B)
LOCATION AND VISUOUS HONG VISITED A CARCING OF	tes



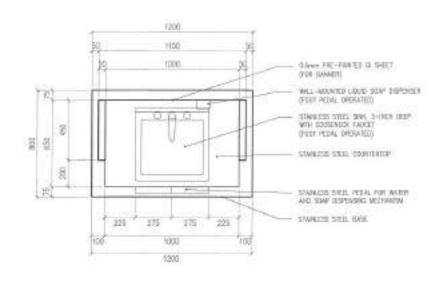
16	CD:
	34+3:
100	No.

PESSAMENERO APPICANO.	APPROVED AT
Δ	1100 111
ENGH ISASANI R. VERZOSA, JR.	31074, 504, 3

7000	
	SCHOOLLY OF DODGE
HON, MA. JOSEFINA D. BELMONTE	

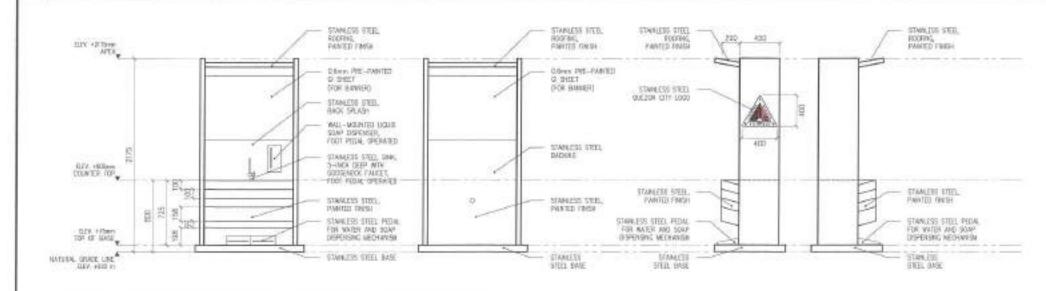
RHERT CONTENE

AR-06 06 12



1 SINGLE SINK PORTABLE HAND WASHING PLAN

SCALE 120 M



2 SINGLE SINK PORTABLE HAND WASHING ELEVATIONS

SCALE 190 M



Republicang Priprose
Lingsod og Queson
CITY ENGINEERING DEPARTMENT

PROJECT YOUR	DIMMEN -
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND	DATE: OLIVE
REHABILITATION OF KNL-CDO DAYCARE CENTER /	CHEMINE IN
DISCATION BRIDE NA LISAS, DISTRICT 4, QUEZONICITY /	HERMONIA:

1	MANUTAL NO.
1	(\m
1	ENGR. LEG S. DEL ROSARIO

1		
V		
MANIE	R. VERG	R. A805
	Manie	MM R. VER

RECOMMENDAG APPROVING

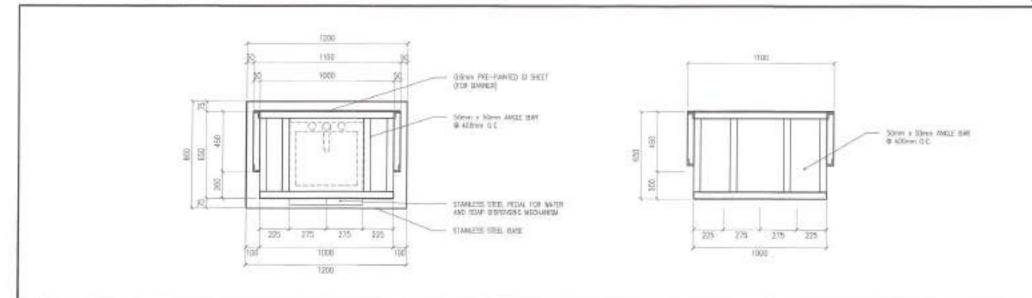
HON, MA, JOSEFINA G, SELMONTE

HON, MA, JOSEFINA G, SELMONTE

SHEET CONTENT

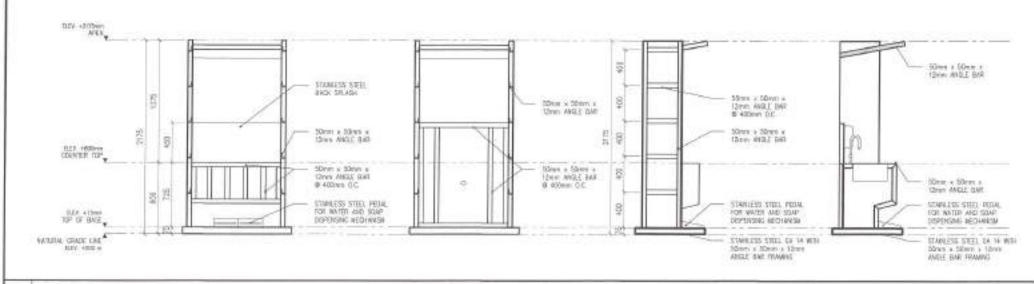
WERDWED AT





1 SINGLE SINK PORTABLE HAND WASHING PLAN

SCALE 1:20 M



2 SINGLE SINK PORTABLE HAND WASHING ELEVATIONS

SCALE 1.20 M



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

TRUSCH TIME	semmin fac
PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND	(A72 - 96 (4.2)
REHABILITATION OF KNL-CDO DAYCARE CENTER	оношь 🖈
CONTON BRIGH KIND WALLIGHT DISTRICT & QUEZON CITY	PEVERNING:



	1
ERZOSA, JR.	-
ERZOSA, JR.	-

2015-101	
HON, MA. JOSEFINA S. BELMONTE	Securi Sen PORTAB HANCI WASHING PLAN SHELL SEN PORTAB HANCI WASHING BLEVATERRIS

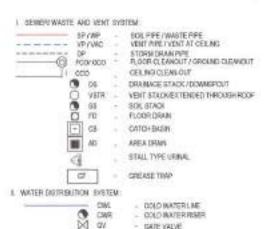
SHEET CONTROL

ST-01 08 12

- 1. ALL THE PLUMB HOISANITHY: WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE PHILIPPINE PLUMBING CODE. THE NATIONAL BUILDING CODE, RULES AND REGULATION OF QUEZON CITY 2. COORDINATE THE DRAWINGS INTHIOTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED THE ENDRY ARCH SHALL BE NOTIFIED. IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN. 1. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS, ANY RISLOCATION. REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE METH. PROPAPPROVAL OF THE ENGINEER OR ARCHITECT. 4. PROPOSED SANTARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERTIGLEVATION OF ALL EXISTING STRUCTURES. AND PIPES AS VERBIED BY THE COMPACTOR. 8. ALL SLOPES FOR HORSZONTAL DRAINAGE SHALL MUNTAIN THINNY UNLESS OTHERWISE SPECIFIED. 6. SUES OF WATER SUPPLY PIPES TO FUTURES SHALL BE MIACOORCANDS. WITH THE MANUFACTURERS INSTRUCTION. POINT AND WATER LINE SERVICE CONNECTING POINT.
- 7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEMERLINE OFFLUENT DISPOSAL. #. ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY ILUSHED WID
- CREMFECTIO WITH LIQUID CHOLORING OR HYDROCHLORICE SOLUTION. 8. ALL MATER PIPES IS-WALLINE HYDROIS TATIONALY TESTED TO A PRESSURE
- 1-10 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
- 16. ALL SANTARY AND STORM DRAINIGE PIPES SHALL BE HYDROSTATICALLY TESTED AT LEAST 10.0 MTS. HEAD TO ENSURE THAT THE SYSTEM ARE
- 11. AU, DIMENSIONS ARE IN METERS AND AU, RIFES SCIES ARE IN MILLIMETER UNLESS OTHERWISE SPECIFICIAL
- 12. ALL PIPES HOICKTED ON PLANS RETER TO PIPES INSIDE DIAMETER.



BOALE NTS:

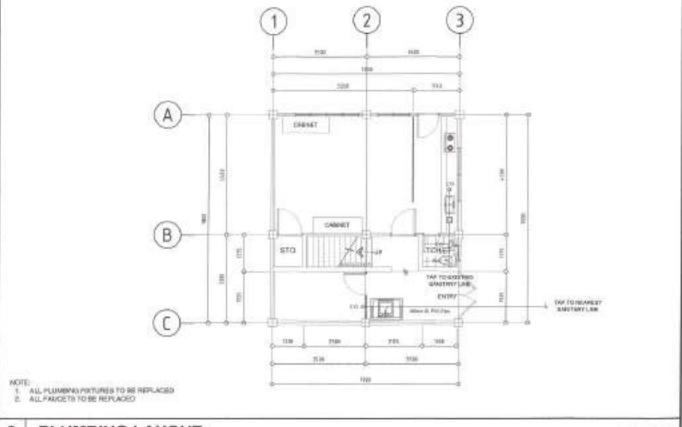


- DATE VALVE

- CHECK WASTE

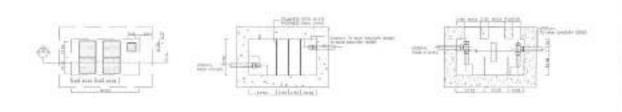
MATERIMETER

- BALDONY DRAIN



PLUMBING LAYOUT

SCALE 1:100M.



LEGEND AND SYMBOLS

CV.

BD

(M) West

SCALE NTS.

GREASE TRAP DETAILS

SCALE NTS. ERRETTES.



Republika ng Pilipinas Langeod ng Quecon CITY ENGINEERING DEPARTMENT DULL LOOKEN PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF KNL-CDO DAYCARE CENTER ,

BROT: KHUS NA LELAS, SISTRICT + . QUEZON CITY,

LOCATION

Same Su BUTE: 00:421 DECKED BY MA REVISION NO.:

ENGR LEN S. DEL ROSARIO

ENGR. ISAGAM R. VERZOSA, JR.

RECOMMENDAS APPROVAL

HON MA. JOSEFINA G. BELMONTE GITY MARKET

RAMINADRE

SERVER AND ENGINEERS PLOMENS LICYOUT DESIGNE TANK DECIMALS

MEET CONTENT

PL-01 09 12

- 1. ALL BLECTRICAL MORKS SHALL BE DONE IN ACCORDANCE WITH THE PREVIOUS OF THE LATEST SOFTION OF THE PREJETTING ELECTRICAL CODE. THE LAWS AND OFENSIANCES OF THE LOCKLIDGUE BIFORDING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE. WITH IT COMPANY
- 1. THE CONTRACTOR SHALL DECLINE ALL PERMITS AND FAV ALL FIELD REQUIRES FOR THE WORK AND BUILD FIRSTED THE OWNER THROUGH THE ENCHARGE THE CERTIFICATES OF SUBCTRICAL REPORTION AND APPYORAL PROMPTION REQUIREMENT AUTHORITIES FOR COMPLETEN OF MORE.
- 1. ALL BARDOS BRACK CACATE SHALL BY PAC CONDUCTS AND FOR CONDUCTOR SHALL BY DATE OF SIX SUPPORTED BY CONDUCT CLAMPS IN DRIVE. TOTAL METCHS
- PULL BOOKS SHALL BE PROMOSE BY THE CONTRACTOR WHENEVER RECSISARY TO FAC LITATE WAS FULLING PLEM IF THERE ARE NOT RESCATED ON THE PLANS, STRUCTURAL PLACESTRALL DE CONFESTIO SAISE ON THE CODE PEQUADARTITS SUBMIT SAISE DAMAGE TO THE EXCHAPS FOR APPROVA. PRIOR TO PASSICATION, LOCATION OF PULLBOIRES SHALL BE APPROVED BY THE AND INTELESSABLES AND MUST BE REPLECTED ON THE WIGHLIST FLAN.
- ALL POWER OUTLETS. AND SWITCHES SHALL BE SHOUND NO TYPE WITH FINANCIES ISLOTS FOR 230 V.
- 8. PROVIDE GROUND FAULY CLIRICIAN INTERPREPTING CREATER FOR LIGHTS MARKET TOP OF ON THE PLANE.
- ALL MITTELLO COMPLETE, CHIEAETE AND DOLIFACIOT SHALL DE PROPERTY VIDOLADED AND DENDED.
- 3. UNUSS (THERWISE NOTED MISHING REIGHT FOR WALL MOUNTED BEVIOUS SHALL BE AS FOLLOWS:

RECEPTAGLE OUTLET - 300 MW AFF . 158MW ABOVE WORKING COUNTER.

LIGHTING-SWITCH | 1400 MM 8FF

PARELISSAND - 1800 SWAFF

- REFER TO MEDIAN EAU PLUMBING AND PITE PROTECTION DRAWINGS FOR HATBIDS AND LICATIONS OF EQUIPMENT AS MISS AS THEIR CONTROL SEQUENCES. AS SPECIFIED AND OR SHOWN LADER THEIR RESPECTIVE SECTIONS.
- 10. ALL NATISTALS TO BE USED SHALL BE OF THE BEST QUALITY, BRAND HOW AS SPECIFIED.
- 11. THE DRIVANCE AND SPECIFIC ARCAS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BYOAD DUTUMD/DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARLY INDICATED BY ACTUAL LOCATIONS, LENS, AND IDETANCES OF THE EGUPTION, THE CONTRACTOR IS HEREBY REQUIRED TO MAKE BLOH AGAJETWENT AT THE JORNITE AS LOCATION, DISTANCES AND LOVELS ARE DOVERNED BY ACTUAL PIELD GOADITIONS.
- 15. ANY DISCREPANCY SETWED) THE PLANS AND EXPORPCIATIONS SHALL SE PROLIGHT TO THE ATTENTION OF THE ENGINEER FOR CLIMPTICATION DECISION.
- 15. ALLEGING AND CONVENIENCE CUTLET CIPCUITS SHALLED ISSO, MAY THINK IN COPPER WAS LINCOID OTHERWISE HOTED, MANAGED SOFT MIRE SHALL BE \$5.90, MM, COPPER WIFE, ALL WIFES AND CABLES SHALL BE COLOR-CODED AS FOLLOWS.

LINE 1-RED

LNE 1 - YELLOW

NSJTRAL MHITE

GROOMS - GROOM

14 BOXES, WRIE, OUTSERS, ENGLOSISES SHILL BE FARRICATED FROM STEEL WITH THICKNESS AS ROLLOWS.

MODBUM WIDTH OF THE WIDEST SUPFACE STEEL

UP TO INCLUDING 152-40 HM

GA 16 PRINTED HITH METAL PRINER EFORY AND TOPODIT

CHEM 152.40 MM BUT NOT OVER 457.50 OVER 457.36 MINISUT NUT OVER 752 MM. GALLY FAUNTED HITTH METRIC PRIMER EPONY AND TO POONT GA 12 FAINTED HITH METAL PRINCIP EPOXY AND TOPOCHT

OVER 162 MHz

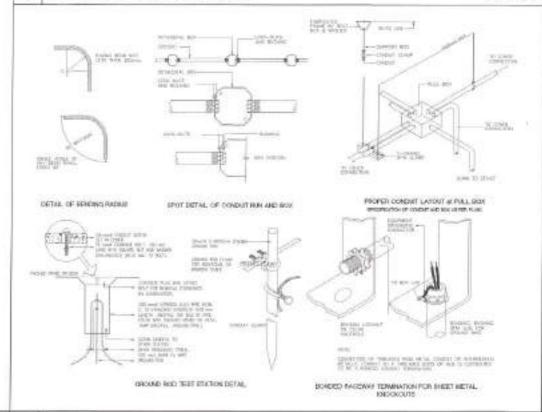
DA 16 PAINTED WITH METAL PRINGS SPUKY AND TOPOGRE

- IS ALL RECTRICAL WERRS HEREN WHALL WE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A RULL THE LICENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY POAR WORKS SHILL BE WENTLY PLACED, SECURBLY (WITENED AND PROPRIL)
- 16. TYPE OF SERVICE ENTRANCE SHALL BE SHALLE PHATE. TWO HIRD PLUS GROUND, 46 HERTZ, 2001 AC HOMAN.
- 17. DONOUTS IN NO CASE BUILL THERE BE MORE THAN THE COUNTRIEN OF YOUR COMPREY ABYOUT IN ANY ONE RUM, ALL CONDUIT REVISE SHALL BY FREID INDICE. BY USING WYORKALD REMODERS ARREADING BADGING NACIONAL IN ACCORDANCE TO THE CODE REQUIREMENTS.
- 18. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTINGS TEST AND FUNCTIONALITY TEST WALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE QUESTINGTY ENGINEERING DEPARTMENT REPRESENTATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SAVE, NOT BY MORE THAN 5 OHMS COMMUNICATION GROUNDING RESISTANCE SAVE NOTEXOLED 2 DHAM.

\Leftrightarrow	Duples Convenience Outlet	(8)	Orbit Fan with Selector Switch	
анета	1200mm x 300mm LEO tabe in Trofter Flature	s,	One Gang Switch	
	1000ers s (00 eer LED labe is Traffer Fisture	82,	Two Gang Switch	
	1st Rev TB LED Tube Box Type Lighing Flower	83,	Three Gorg Switch	
00	14w LED Light Bulb in Plastic Receptacle	0 - 0	Wall Mounted Enhant Fam	

LEGEND AND SYMBOLS

BCALE MYS



Widewood in

GENERAL NOTES

SCALE NTS CHANGE AL

CONNECTION DETAILS

SCALE NIS SEED INC.

Republika ng Pilipinas Languoding Quezon CTTY ENGINEERING DEPARTMENT PROJECT TITLE PROPOSED CONSTRUCTION OF HAND DESCRIPTION OF THE WASHING FACILITY AND REHABILITATION OF KNL-CDO F. verapose: DAYCARE CENTER ON WORKS

MROY, KIRUS NA UDAS, DISTRICT 4, QUEXONCITY

manuffer or ENGR. LEO S. DEL ROSARIO

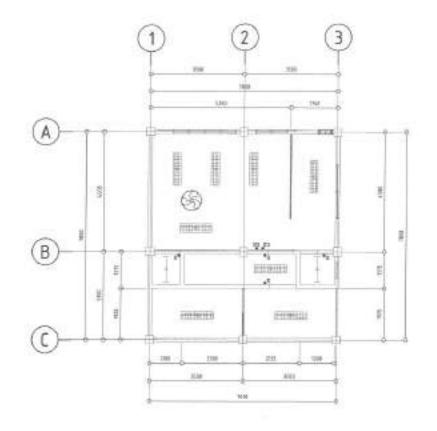
PERCENTIFICATION OF STREET, ALL

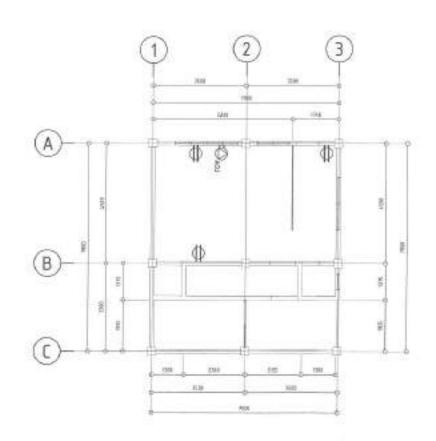
ENGR BARRON R. VERZOGA JR.

ECCENT AND CHARVES IS CONNECTION DESNUE HON, NA, JOSEPHA G, BELMONTE

MEET LOWIENT

EL-01 10 12





EXISTING LIGHTING LAYOUT

BCALE 1:100M.

EXISTING POWER LAYOUT

SCALE 1-100M.

DATE OF

Republika ng Pikpinus Langsoding Quezon CITY ENGINEERING DEPARTMENT

ESHAMILE STATE PRODUCT TITLE PROPOSED CONSTRUCTION OF HAND 15 et 20 et in WASHING FACILITY AND REHABILITATION OF KNL-CDO DECKED BY ME DAYCARE CENTER: LOCATION SHOW, NIFUS HA LIGAS, DISTRICT 4, QUICZON CITY. PERSONAL!

ENGR. LEG S. DEL ROSARIO

ENGR. BAROUR, VERZOSA JR.

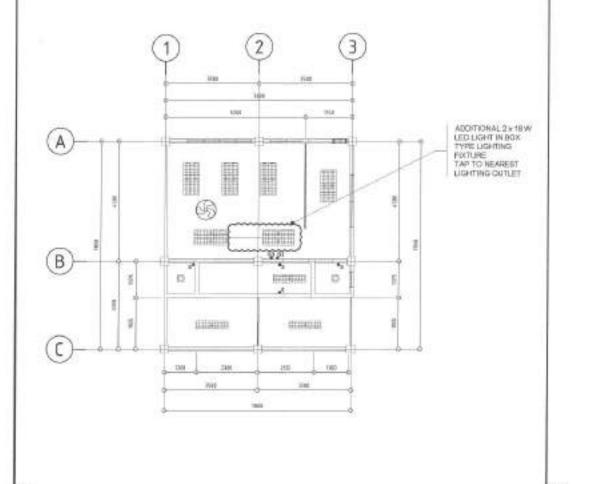
RECOMMERCIAL REPORTED

ARRIGHED BY

ROPOSES LISTING LAYOUF PROPOSES POWER LAYOUT HON, MA, JOSEPHA G. BELMONTE

EL-02 11 12

INSTITUTE TO LEGAL



APPROVED BY

NOTE:
ALL EXISTING LIGHTING FOTURE AND WINNIG DEVICES TO BE REPLACED AS GHORN OR PROPOSED LANGUE.

NOTE:
ALL DESTING WINNIG DEVICES TO BE REPLACED AN SHOWNON PROPOSED LICEOUT.

1 PROPOSED LIGHTING LAYOUT

SCALE 1:100M

NUMBER OF STREET

commun. Bill

PROPOSED POWER LAYOUT

AVOTEN SHIDAWARCOM

BCALE 1:100M.

Republika ng Pitpinas Lungsod ng Queson CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF HAND
WASHING FACILITY AND
REHABILITATION OF KNL-COO
DAYCARE CENTER

DOCTOR
HERY SELS MUCAS, OSSIBLIT & DUEZN CITY

ENGR. LEO & DEL ROGASIO 1930 PARRIEL HASSINGSON TORSON ENGR. RAGAN R. VERZOSA, JR. GC. DITY OF MERINGIEN WINDS

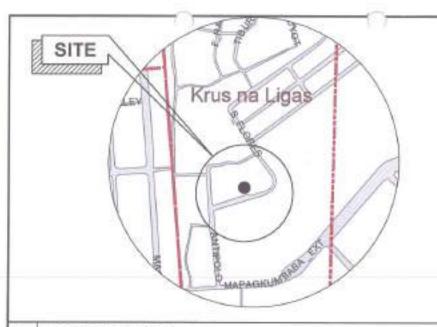
HON. MA, JOSEFRIA G. BELINOWTE

OTYMATIS

OTYMATIS

SHEET CONTENT

EL-03 12 12



LOCATION MAP

SCALE: NTS

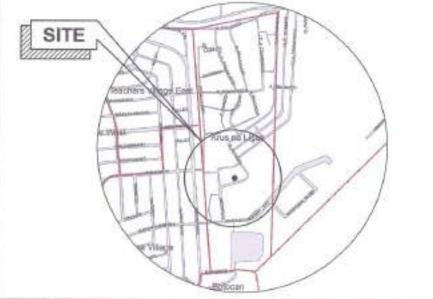




TABLE OF CONTENTS

ARCHITECTURAL ABJU LOCATION MAP VICTORITY MAP PERBPECTNE ARIZE SETE DEVOLOPMENT PLAN ARIS CONSTINUE FLOOR PLAN PROPOSED FLOOR PLAN ARH REPLECTED CELLISIPLAN ARIA PRONT ELEVATION DATE DETAILS ROOFPLAN AR-E LETTERONS DETAILS SCHEDULE OF DOORS AND WINDOWS APA7 SHADLE SINK PORTABLE HAND WASHING STALL PLAN AND ELEVATIONS

STRUCTURAL

ST-1 SIGNLE SINC PORTABLE HAND WIGHING STALL PLAY AND ELEWINGHIS SECTION

PLUMBING

PL-1 GENERAL HOTES LECENOS AND GYMBOLS WATER SINE LAYOUT SANETARY LINE LAYOUT

ELECTRICAL

EX-1 GENERAL MOYER MISCELLANEDUS DETAILS LEGENDS AND SYMBOLIS BLG LIGHTING LAYOUT POWER LAYOUT

VICINITY MAP PERSPECTIVE SCALE: NTS SCALE:NTB

PENYSBON YOU.



Republika ng Pilipinas Langsteding Queron CITY ENGINEERING DEPARTMENT PHEAREST TYPES

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF

LOGATION

SITIO LAMBAK DAY CARE CENTER

BROW, HALLS WE LIGHTE DIRECT & MARROW COTY



ENGR. LEG S. DEL HOSARD

ENGY, ISANA R. VERZOSA, JR.

HISCHROOMS APPROVA.

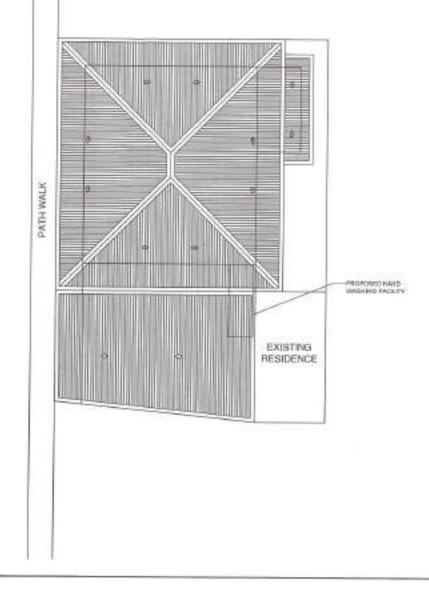
HON, NA. JOSEFINA G. BELMONTE CETTAGENCY DOCUMENTS

APPROVIDED IN

THE PROPERTY PROBERTY SHEET NO. WCBNTY SHP LOCATION NAP PERSPECTIVE

AR-1 01 11





SITE DEVELOPMENT PLAN

SCALE: 1:75M BRITAS

Republika ng Pilipinas Lungsoding Quezon CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF

S.FLORES ROAD

SITIO LAMBAK DAY CARE CENTER socimos: BROW REALBASE LISTAL DESTRUCT & GUISTON OTH

DOWNERS OF THE PARTY OF THE PAR DATE: 0:40,000 DEDNESS # REMINORHO.

ENGR. LEO S. DEL ROSANIA/ PEO. P. AMERICA PRODUCES DATES

ENGA ISANAN R. VERZOSA, JR.

ASCOUNTERDING WITHOUGH

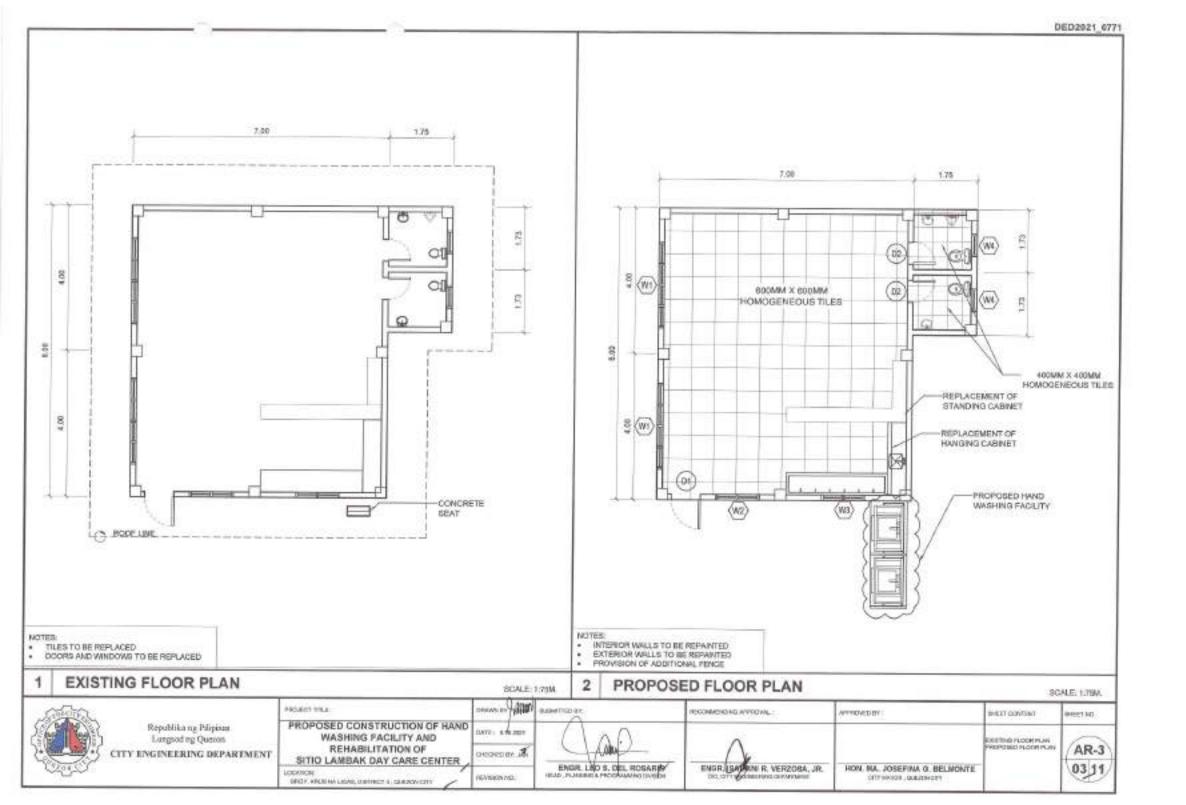
HON, MA, JOSEFINA O, BELMONTE OTY MAYOR, GREATMORY

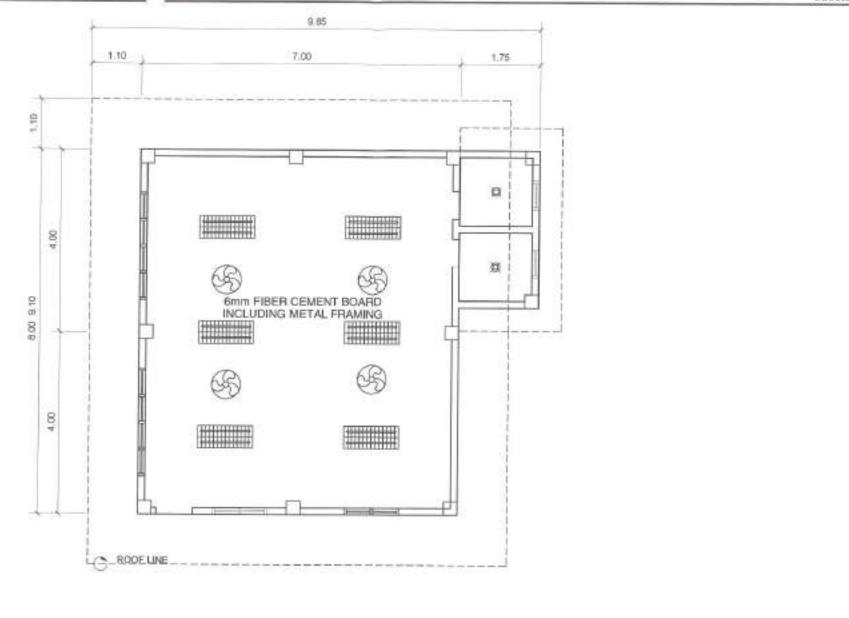
APPROVED ME:

SEFE DEHELOPMENT PLAN

TVETNOO TEBER

AR-2 02 11

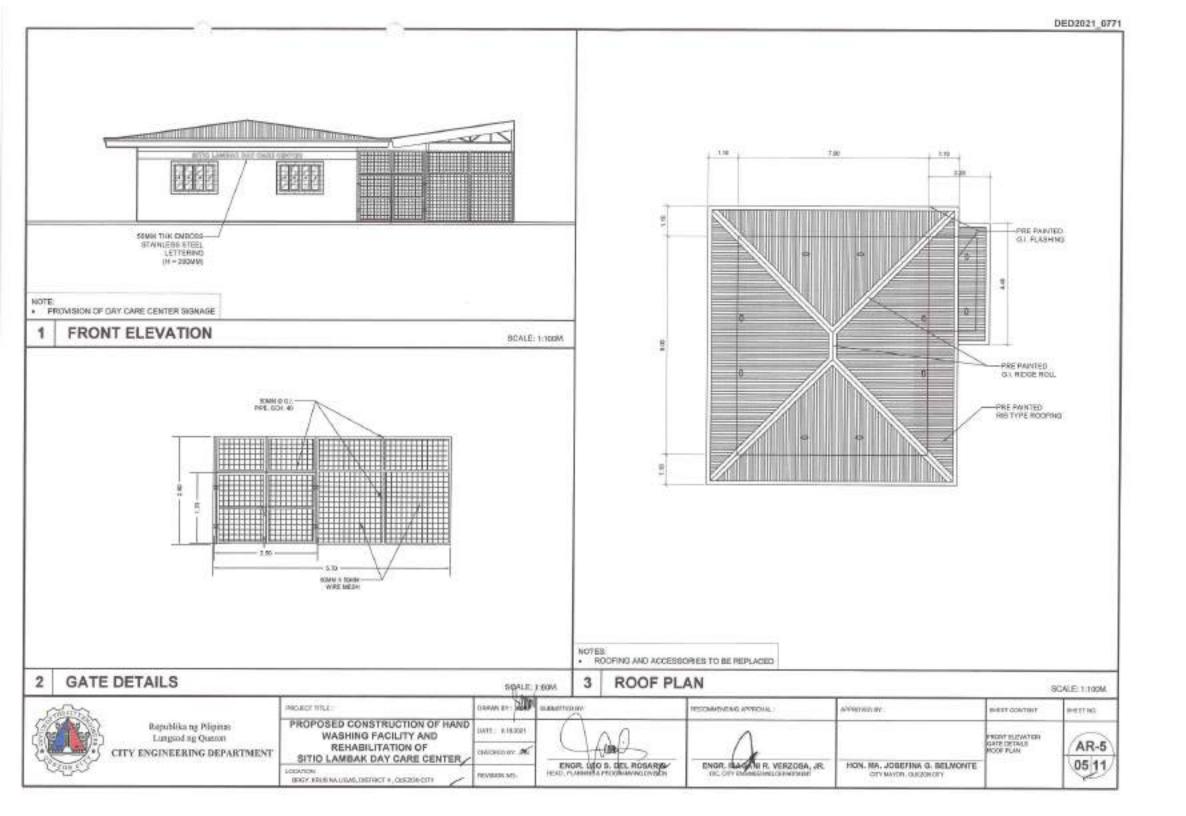


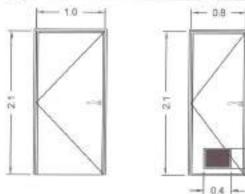


NOTES:

CELLING TO BE REPLACED

REFLECTED CEILING PLAN SCALE: 1:60M. HEAVES BY THE PROJECT TRUE MANUFACTURE BY ANDREWS APPROVAL AMMONTO DE SHEET SCHITTENT. SHEETING. PROPOSED CONSTRUCTION OF HAND Republika ng Pilipinas DATE - 9.163001 WASHING FACILITY AND Langsoding Quexon INFLECTED CEILING FLAS AR-4 REHABILITATION OF CITY ENGINEERING DEPARTMENT DEDUDE: N SITIO LAMBAK DAY CARE CENTER EWOR, LEO S. DEL ROSARTO ENGRUSA CAM R. VERZOSA, JR. 04 11 HOW, MA, JOSEFINA G. BELMONTE KEY BON NO. CITY MAYOR, DURIDECTY BRIDE HEAR HA LIGHT, DISTRICT 4 , QUEZON GITY





		5 W. S.
	0-1	17-2
LOCATION	DAY CARE CENTER	CR
BRECIFICATIONS	SAMING TYPE, FLUSH HOLLOW CORE DOOR, PAINTED RINBH (OTTEN WHITE)	SWING TYPE, PVC DOOR, WITH 400sm x 300sm LOUVER, PAINTED FIMSH (RETTEN WHITE)
HARDWARE / GLAZING	COMPLETE ACCESSORIES. DOOR KNOB: LEVER TYPE, SATIN STAINLESS FINISH	COMPLETE ACCESSORIES. DOOR KNOS LEVER TYPE, SATIN STAINLESS FINISH
NO OF SETS	1	2

CONCRETE WALL

STANLESS STEEL

SIGNAGE

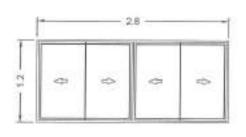
LETTERING

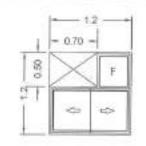
1 SCHEDULE OF DOORS

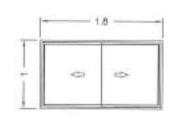
SCALE: 1:50M

3 LETTERING DETAILS

SCALE:NTS







-	0.5	
0	M	
0	V N	

STYNOYED BY

	W1	W-2	943	W4
LOCATION	DAY CARE CENTER	DAY CARE CENTER	DAY CARE CENTER	CR
SPECIFICATIONS	BLIDHIG WINDOW, SHIP THE CLEAR TEMPERED GLASS ON WHITE COLDR POWDER ALUMINUM FRAMES	SLIDNIS WINDOW, BINN THE CLEAR TEMPERED GLASS ON WHITE COLOR POWDER ALLWINUM FRAMES	SLIDING WINDOW, 6km THK CLEAR TEMPERED GLASS ON WHITE COLOR POWDER ALLMINUM PRAMES	AWNING WINDOW, 6vm THK CLEAR TEMPERED GLASS ON WHITE COLOR POWDER COATED ALVMINUM FRAMES
HARDWARE / GLAZING	COMPLETE ACCESSORIES	COMPLETE ACCESSORIES.	COMPLETE ACCESSORIES.	COMPLETE ACCESSORIES.
NO DESETS	2	1	1	2

2 SCHEDULE OF WINDOWS

SCALE: 1:50M.

SHEET NO.

SHEET CONTENT



Republika ng Pišpinas Langsod ng Quizzin CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF

WASHING FACILITY AND REHABILITATION OF SITIO LAMBAK DAY CARE CENTER

SPICK KYLENIA LIGAR, CHETHICS A, CARSOVOTTI

	SECOND ST. SEC.
N OF HAND	DA15 - 0.16.001
OF E CENTER /	oscore or In
	NUMBER NO.

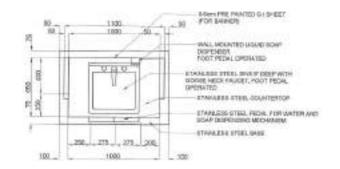
1	7		22	
1		20		
1	- 1	100	17	
		1,1294	22	
ENGR	LEG	S. DE	L ROSV	dist

	1		
	11		
e word	ISSUEN R	VERZOS	A . 160

GODBNG SORGE SAFRESON,

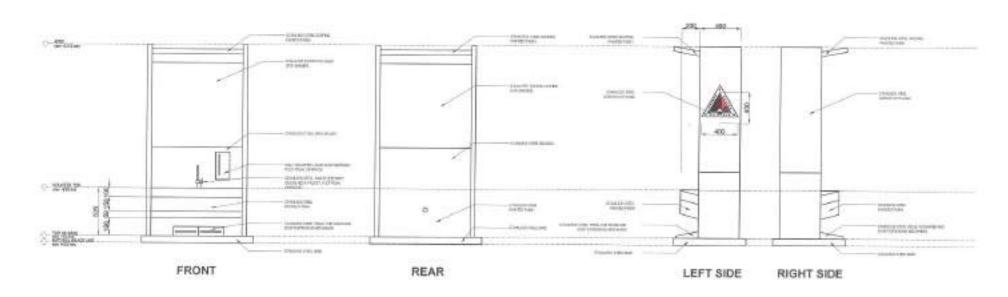
HON, MA, JOSEFINA G, BELHONTE
OTT RAPON, MARINE OTV

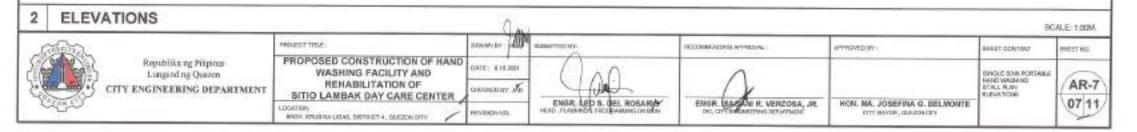
AR-6 06 11

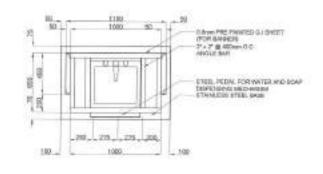


1 SINGLE SINK PORTABLE HAND WASHING STALL PLAN

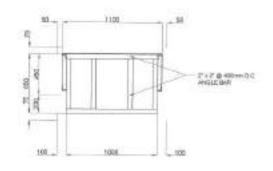
SCALE: 1:30M.







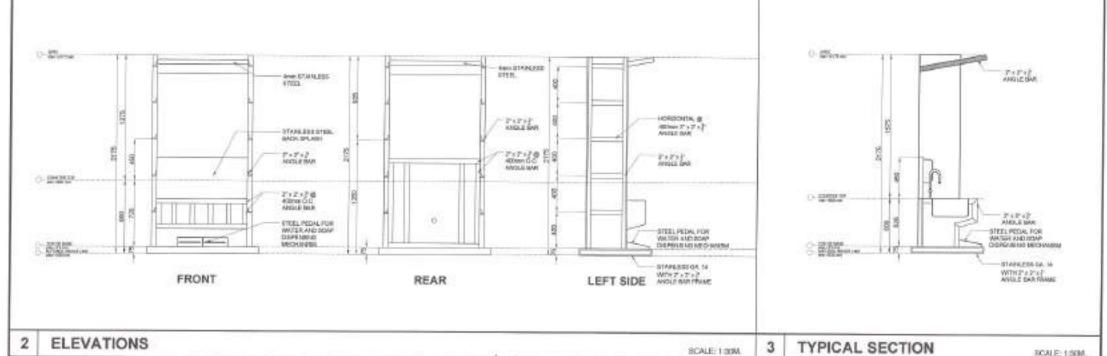
PLAN



ROOF PLAN

SINGLE SINK PORTABLE HAND WASHING STALL PLAN

SCALE: 1:00M



Republika ng Pilipinas Langsoding Queston CITY ENGINEERING DEPARTMENT

PROJECT TITLE PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF SITIO LAMBAK DAY CARE CENTER . incerton

truski bri DATE SIR OWN очения Ж WOVEDOWN OF BROV KRURNS LIGHT, DRIVERT 4, QUIDON OTV

HOOM

SUBSCINIO PT ENGR. LEO S. DEL ROSARIO

AVORTW GROCKHOOST ENGRANDISANI R. VERZOSA, JR.

SHOLE SHAR FORTABLE HAND WASHING STALL PLAN SLEWITONS TYPICAL SECTIONS HON, MA. JOSEFINA G. BELMONTE OTT REPORT GERZON DEV

APPENDING.

ST-1 08 11

BRICTAD.

DISTRIBUTION TIMES

4. We sharing worsy and materials indicated formic medition conditions the positions after past about statement Practices (Visit and Englished Annies and Englished Annies Annies and Englished Annies Ann

If Through Body dept. (1.3-19) (Region (1.00), pgcs. I devends not stock other shallner considerate not an possible 1.6 not timester in since the copy of consistent of the place and interes in the coverigible and heapting. And the control to a transferred and amount existent long reacodor will require purpose and our will not be trained.

If To colorating contractor shall seek, at sampling all the at the observable parallel known with other trans-

& Plant that not be serial destinated in an according to the extreme perfect to above?

A life inside charge for happy contribution than a marker the score provides code on the

If Proposed alleviating alleviar plant confinements the social resolution staget amounts alreaded after accompanion to

If Connection of Excylet is place untillings what we according to accomplished upwerfulners

If the track is said a long to a property the back of

If it may not be out and further received to self-and short be provided with political level legal. Directional from their representation only provided in contraction of the self-and street in the provided provided in contraction of the self-and street in the provided provided in contraction of the self-and street in the provided provided in contraction of the self-and street in the provided provided in contraction of the self-and street in the self-and s

18.18 interprined 5.1 give in 8 stroyter with self-stell local stroyte to 20 code strate for averaged washed with july state from principles consistently or region.

15 Process and relative and year the restoration sensor weighted reports.

12 AS and you place that he of agreemed grafts and CV (specify many flot between and be Schools AV). Should engel.

15/horse jury cares to all what apply their tributes.

14A/1 lemailer lane and his provide number with respect

\$5.00 code dual transfere la littera se group di littera autilio acciprocia traffici possibili del mediator a capsal na fod plan estempero di direptoro sa sinale.

the distance to 10 smillest legal

10 - Bill one for City will and another

TRUST troop lattice straff for TR even (F)(APT (E) unique offer time indicated

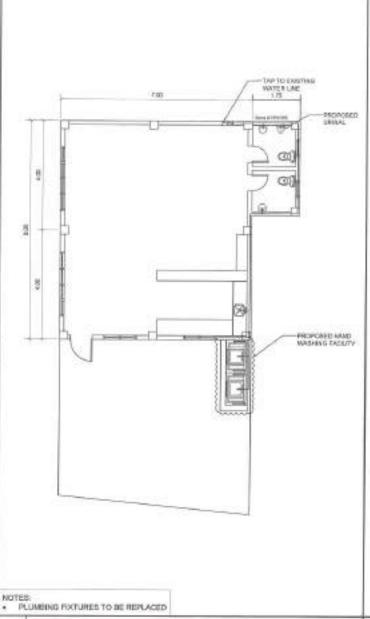
If the late of super-best of Cores agriculture the operation which can represent a war pur-

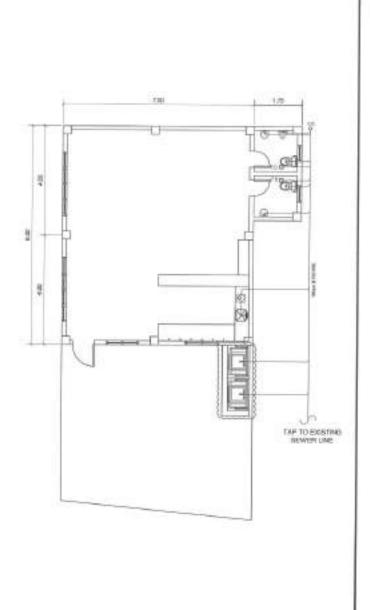
Wild pluming some and marrier of contractors shall be under to do not appreciate of Mathematical States Provide or Polystein I having Agreem Any Descriptional States pluming planted to reduct the large systems.

1 GENERAL NOTES

SCALE: NTS

FIXTURE	ES WAD OTHER LESSIND	-+-	TWENTHAMM
80	FLDOR DRAIN	- makelone	CHEOKARDE
ato	ROOF DRAW	76	WWW.CONG.SEMEN
5340		96	WWT04010090
-		- 61	WASTE INC.
WG	WATER CLOSET	360+19	APEA OPARITOCIOLIBRISE
LAW	LAWATORY	19	FLOOR DEWN
GHI.	URINA		CHARTEK
KB	HITCHEN SINK	-	WASTELAE
		_	WURETHE AND THE
80	BUILDING DIVIN	- 10	DECKURNI
60	DECK DRAW	10	DESSOR
		- 10	PETON
000	CELLING CLEAVOUT	-	PERIO
PEGG	PLEGRAGINOUND CLEANOUT	400	OCUMPER.
Leader	FUNITHINDONE SECRICAL	000	DATE WALVE
DS.	DOWNSPOUT	- 3	ARSA DRAWL/CARCHIDADH
200	The contract contract	191	WATERCLOSET
bents.	relianie	(40)	TYPESONA
		- 100	WASSE
28	INTERNATIONAL CONTRACTOR	100	HOSC BIBB
gHp.	SHOWER DRAW	-	SUSPECIALITY
4115			NOW THE
CR	CATCH BASIN	1982	CONSIDER FIRE CHESTS COSC THE
MH	AWNHOLE	00,000	SERVING THE PROPERTY CORD. THE
-20	DIRECTION OF FLOW	199	DRECTION OF FLOW / SLOPE
-			SHED FOR FOR FEDERAL GENTE.
0	SREAGE TRAP		





LEGENDS AND SYMBOLS

SCALE NTS

WATER LINE LAYOUT

SCALE: 1:100WL

PERCENTINUOS APPROVAL

SANITARY LINE LAYOUT

DITY WAYDY, SHEETS OTY

KEROVED BY

SCALE: 1:100M.

Republika ng Pilipinas Langood ng Quaxon CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF

SITIO LAMBAK DAY CARE CENTER
LOGICOR
HIGH RELEGIELLOSAL DEPTRICT 4, DESCRICTY

ND DATE: \$16,001

ENGR. LEG S. DEL ROSARIGL

ENGR. RANGER R. VERZOSA, JR.

HON, MA, JOSEPINA G. BELINDNITE

HON, MA, JOSEPINA G. BELINDNITE

SHOW TO CARRYTHMS

PL-1 09 11

- 1. ALL BLECTRICAL WORKS SHALL BE COSE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILPRIS IS SCHOOL. THE LAWS AND GROSS ANDER OF THE LIDEAL CODE REPORTING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE
- 2. THE CONTRACTOR WALL RECIPIE ALL PERMITS AND PAY ALL FEED REQUIRED FOR THE WORK AND BRAIL FURBRINTHE CRIMEN THROUGH THE ENGINEERS. PHIAL CONTINUATED OF GLECKICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPUTED OF
- 3. ALL SHIBSOOD SWARCH CRICKITS SHALL BE THIS CONDUTTS AND FOR EXPOSED SISTALLATION SHALL BE INC. SEPPORTED BY CONDUIT CLAMPS.
- 4 PHIL BOYES THALL BE PROVIDED BY THE CONTINCTOR SHEEKEN RECEIGERY TO PROJURG FACE WAR PAULING EVEN IT THESE AND HOP INDICATED ON THE PLANS, RESIST OF ALL PILLBORES SHALL BE COMPUTED MARKS ON THE CODE REQUIREMENTS. SUBMIT SHOT DRIVINGS TO THE DRIBBER FOR APPROVAL PRICE TO PARRICATION LOCATION OF PHILOGRED GUAL, SE APPROVED BY THE ARCHITECTURE REPORTED HIGH BE REPLECTED ON THE YEARSON PLAN.
- IL. ALL POWER OUTSETS AND ENTITIES SHALL BE SHOUNDING TYPE WITH HAUSLING ALDER HOW ZNOW.
- 6. PROVIDE BROUND FAULT CURRENT INTERREPTER CIRCUIT BROADS FOR LOADS IMPRIED "WITH ON THE PLAN.
- 7. BUT METALLIC CONDUITS, CARMETS AND EQUIPMENT SHALL BE PROPERLY GROWNED AND SONORD.
- 6. UNLASS CYMBRASIS REPTS MOUSTING HEIGHT FOR WALL MICENTED DEVICES BHALL BE AS FOLLOWS.

RECEPTION OF OUTLET + 300 NW AFF , HOMM NEONS WORKERS COURTED TELEPHONE CHITLE? - SOCIETA OF DATY OUTLIET - 200 MM AFF LIGHTING INVITOR - HOLIMANIANS PANELBILARD - 1805 AND AFT

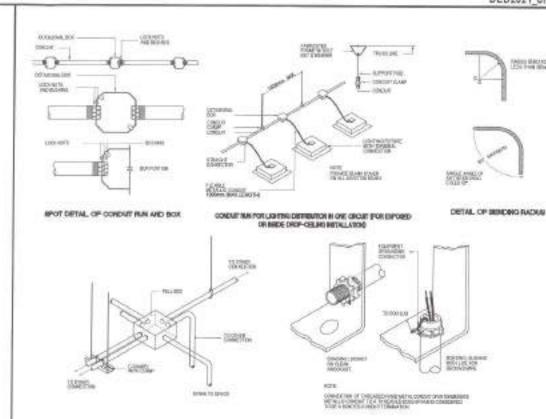
- 8. REPER TO MECHANICAL PLUMBING ANY PIRE PROTECTION CRAMINUS FOR RATINGS AND LOCATIONS OF EGGIPMENT AS VIEW AS THEIR CONTROL. SECURENCES AS SPECIFIED AND OR SHOWS UNDER THEIR RESPONTING GEOTICIES.
- TEL ALL WATERIALS TO BE USED SHALL BE OF THE BEST QUALITY, WAYS VEH AS SPECIFICS.
- 11. THE DEVANCE AND EPECPICATIONS ARE INTENDED TO PRESENT SENERAL DAYOUT AND BROAD OUTLINED EXCHIPTION OF THE PROJECT BUY DO NOT ARCEDIANCE Y INDICATION SCHOOL ACTUAL LOCALISMS, LEVEL AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS REPROFE REQUIRED TO MAKE SUCH ADJUSTMENT AT THE JOSEPHS AS LICATION, DISTINCED AND LEVELS ARE GOVERNOUS VACTURE PIELD CONDITIONS.
- TO ANY DISCREPANCY SETWEEN THE PLANS AND SPECIFICATIONS SHALL BE INCOME? TO THE AFTERTION OF THE DISCREPANCE CLASSICATION
- TS. ALL LIGHTING AND DOWNOLENCE CUTLET CINCLISTS SHALL BE 3.5 RQ. HIST. THIRK, 2 COPPOR WHE UNLESS CHICKNESS ACTED, MINISTER MINISTER CHICAGO. WHICE HALL BY 2 8 SQ. MM. COPPER WHIC ALL WHITE AND CARLES SHALL BY COLOR CODED AS POLICIMS.

LINE 1-RED MARK 2 - VALUE ON HENTENAL-WHITE GROWING - GREEN

14 BOXES, SWIE, SUTTERS, DISLOSURE SHALL BY PREPRICATED FROM STITES WITH THICKNESS AS POLICIAIS. AUCUMEN WIDTH OF THE WORKST SURFACE STEEL.

SP TO RECUIPERS 625 spreads OA 16 PARTED WITH NETAL PRIMER GROSS AND TOPOCHI OVER 192 40 HIM BUT NOT OVER 407.30 DA 14 PARTED WITH METAL PRIMER BRORY AND TOPODAT COURSE WITH SIX MAN WITH FACT COVER THE MAN GA 12 PARTIES WITH WETAL PRIMER SPECKY AND TOPODET CUES 762 lists GA 18 PAINTED WITH METAL PRIMER SPONY AND POPULAT

- 19. ALL ELECTRICAL WORKS (CREEK SHALL BE EXSCUTED BY EXPERIENCES MEN UNDER THE DIRECT SUPERVISION OF A PULL-TIME LICENSES. ELECTRICAL INVESTIGAT AND A BULY ACCREDITED ELECTRICAL SCHIFFACTOR BY PICAR, WORKS SHALL RENEATLY PLACED, SEQURELY FASTENED AND PROPERLY PROFINED.
- THE TYPE OF SERVICE CITERANCE SHALL BE CAROLS PHASE. TWO-MISE PLUS GROUND, INTHERTY, THY ACHOMINAL
- TO CONDUCTS IN NO CASE SHALL THERE BE WORS THAN THE EQUIVALENT OF FOUR QUARTER SENDS IN ANY ONE THIN ALL CONDUCT BEINGS IN HALL BE. HILD MADE BY LITTING HYTRALIC SENDEND, INVENTIGE SENDING PACKET BY IN ACCORDANCE TO THE CODE RETURNINGS TO
- 15. UPON DOMPLETION OF ELECTRICAL CONSTRUCTION MORE, RESULATION RESISTANCE TEXT AND PLACTICINALITY TEXT SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPRICATE BY THE DIRECTION OF TREDITORIES. DEPARTMENT REPRESENTATIVE. THE SPOUND RESISTANCE FOR SUBSTRICAL SYSTEMS SHALL NOT BEINGRE FRANCISCHER, COMMINICATION GROWING RESISTANCE SHALL NOT EXCEED FORMS.



MISCELLANEOUS DETAILS

SCALE: NTS

- SINGLE GANG SWITCH -98 (FOR REPLACEMENT)
- TWO GANG SWITCH 2006 (FOR REPLACEMENT)
- E27 RECEPTACLE WITH LED BULB 0 (FDR REPLACEMENT)
- BOX TYPE WITH 1X18W LED TUBE LIGHT (FOR REPLACEMENT)
 - BOX TYPE WITH 1X18W LED TUBE LIGHT (ADDITIONAL)

LEGENDS AND SYMBOLS



TOFFER TYPE WITH 2X18W LED TUBE LIGHT (FOR REPLACEMENT)

DIRECTOR THERE

POEMES AND SYMBOLE



ADDITIONAL CEILING FAN

- DUPLEX CONVENIENCE OUTLET (FOR REPLACEMENT)
- ACU OUTLET (FOR REPLACEMENT)
- PANEL BOARD

GENERAL NOTES



Republika ng Pilipinas Longa od rag Quazzen CITY ENGINEERING DEPARTMENT PROJECT TIME: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND

REHABILITATION OF SITIO LAMBAK DAY CARE CENTER

LOCATION: BRICK RESIDENCES SETTING A CHESCHIOTE

HAMMER DATE: B.FE.MER CHICKERY IN HINDSONO-

ENGR. LIED 8. DEL ROSANNO

ANDRESS MEDICAL PROPERTY AND A STREET, AND A ENGRUBGOAN R. VERZOGA, JR.

WYTHOUGH BY

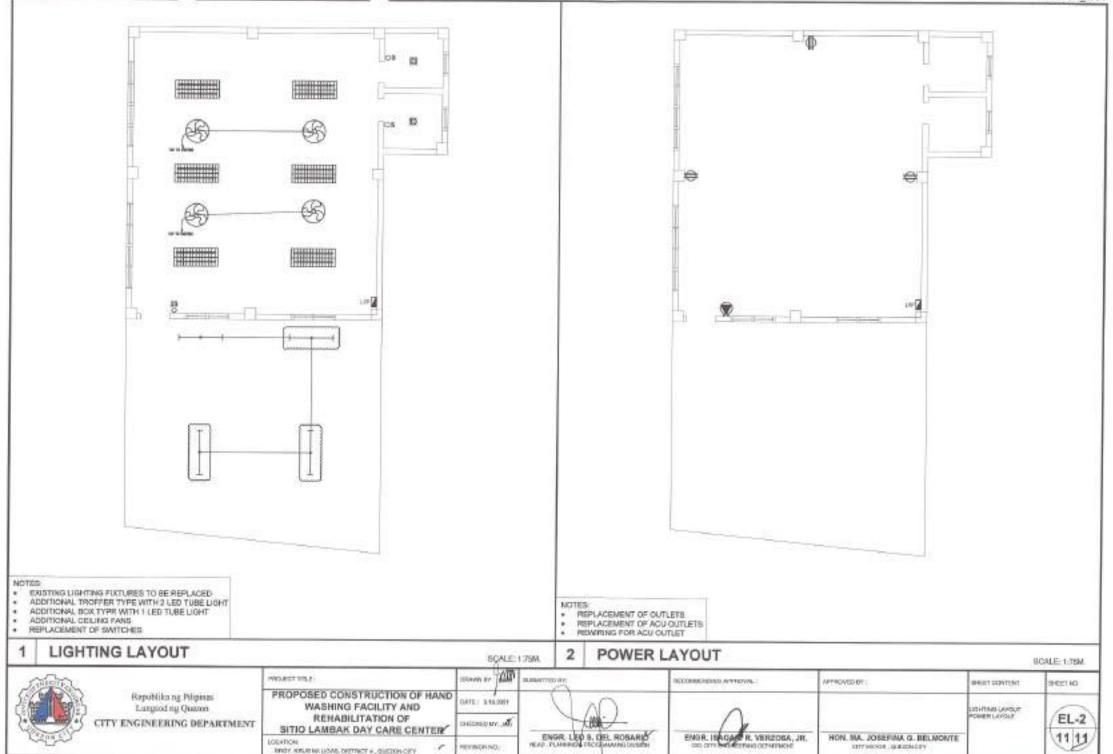
HON, MA, JOSEFINA G. BELMONTE COTT MAJORE, DESCRIPTION COTT

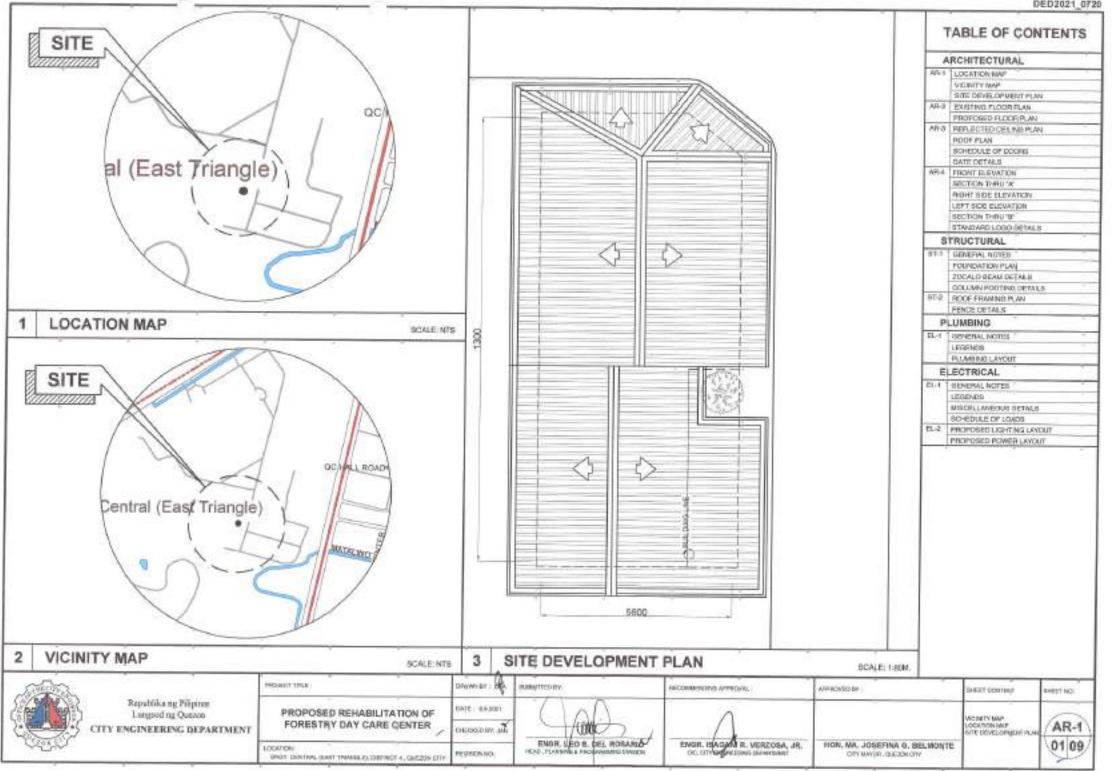
SHEETING

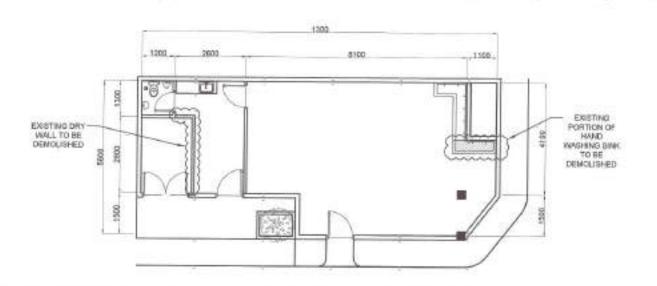
EL-1 10 11

SCALE: NTS



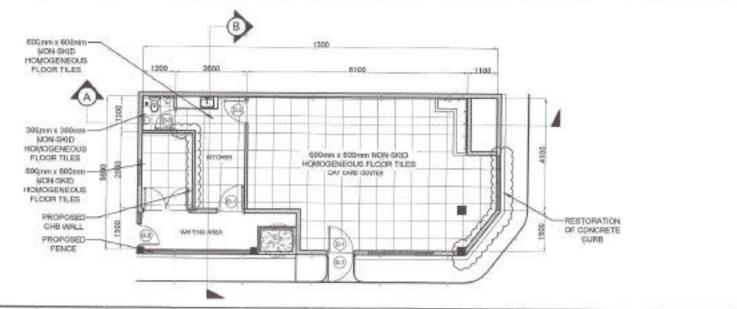






EXISTING FLOOR PLAN

BCALE: 1:100W.



- WHOLE STRUCTURE TO BE REPAINTED
- DOORS TO BE REPLACED
- GATE AND FENCE TO BE CONSTRUCTED

PROPOSED FLOOR PLAN

BCALE: 1:100M. HERT NO.

THEFT KOOK TESHE



Republika ng Pilipinas Lungsoding Quezon CITY ENGINEERING DEPARTMENT PROJECT TIME: PROPOSED REHABILITATION OF FORESTRY DAY CARE CENTER

DRGP CONTRACTIONS TRAMBUS, DISTRICT 4 , DUTTON CITY



DATE: BRAKES

CHECKSON IN . IN

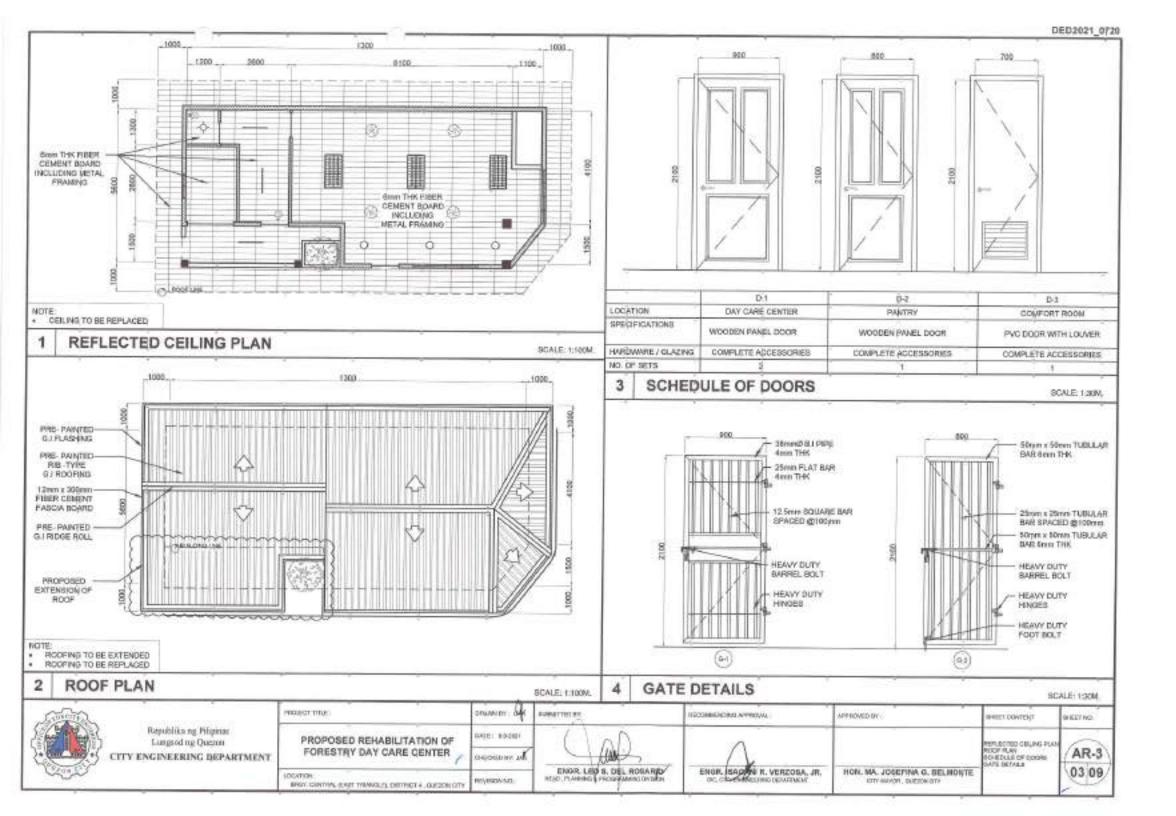
RESISTANT IN

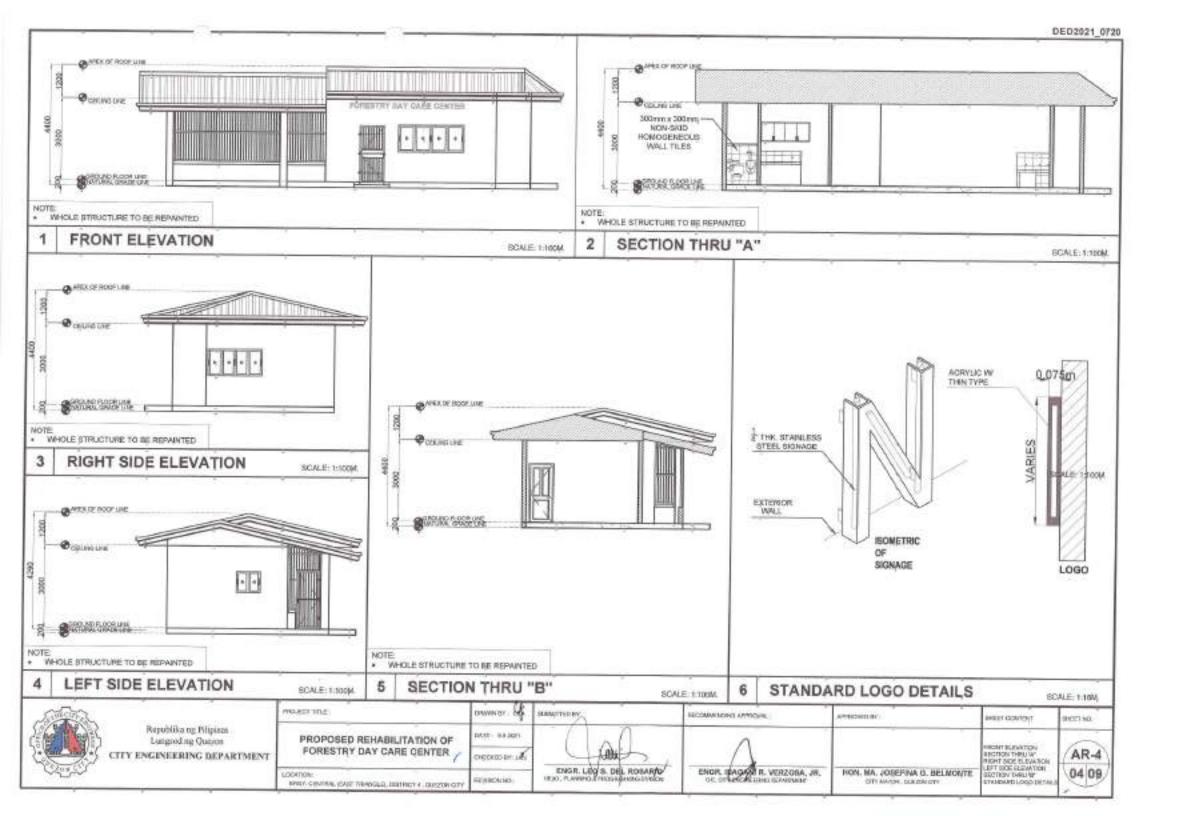
RECOVARE NEWS APPROVIAL	#590HD 0Y:
ENGR. ISAGLANDE, VERZOGA, JR. DE. STYLINGESHO STATIONS	HON, MA. J

PROPOSED PLOOSEPLAN HON, MA. JOSEFINA G. BELMONTE

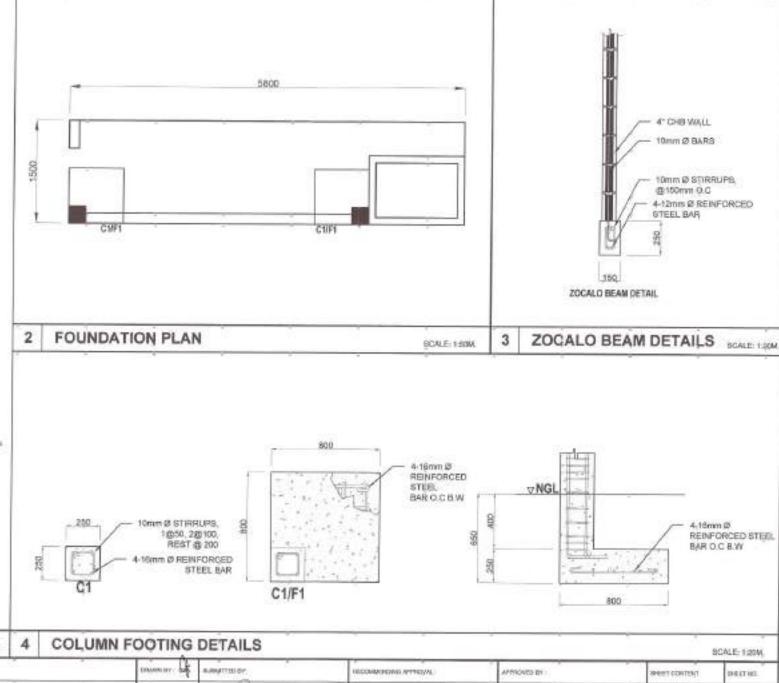
COTT BAZON DIJE 2000 COTT

AR-2 02 09





GENERAL ECHRICAGO PROPRIATA SE LA CARRA DE LA CARRA PARA LOS CARRAS CARAS CARRAS CARRAS CARRAS CARRAS CARRAS CARRAS CARRAS CARRAS CARRAS SHOWN DISACTED MICELY TYPICAL DEWAS AS DISCUSD TO MET SHOOK CONSTRONS. I. THEP DISWROOM WITH ETECTION AND FLAUNG DISGRAPHIC NUMBER OF AN ARM EXPRESS APPRIOR DEFOR TALKSTON TO A STORY A STORY OF THE PROPERTY OF THE PROPE NEGATION, AND RECEIVED CONTRACTORS FOR CHARGING FIFT BLEVES FIT TO SE EXPERIENCE INCOMPRESE TO SHALL BE THE CONSTRUCTORS RESPONDBUTT TO PROMP IN COLUMN SHOPS CO. ERICLE OF THE WHILE WAS PURISHED AND THE WORLDWISE CONTRACTOR. BOOKE OF CHARGE PROPER REPRESENTATION OF CHARGE STREET, THE STERMAN OF THE OTHER DESCRIPTION OF GONCRETE & REINFORCEMENT ALL REPORT OF THE PROPERTY OF CORE OF ANGROWING MODIFIED METALTS INCOME. SI ALL CONCRETE IN HILL COVERED Y INTERPREDICTAMENTAL EXPERIENCE AT THE ENGLY TWENTY. BROWN (18) DATE WITH COMPLARABILITIES BEXABOUR RELACCION FOR ACCUPANT AND ILLINGAS FOLLOWS. LOCATION \$7989G7H BWA: DOE OF MICK TILLING ASSOCIATES. # SURFERENCE 2011/10/2019 1994 1.0 (Direct SAMEL PROMOTES FOOTING. **EWLIFOCIERS** B- READS, COLLEGE SURFERSON NUMBER 40035-00106-946 Still (Seed) BILL CHEMO # DOWNSONCHETT 1 pt 425ress H1.(160m) THAT REMADDING DWS DWALL CONFORM TO PROBLEM DWG. FOR time (I. AND BALLER BARCANES STORE) HER BARCANESS 4 STORTERS, THE LITEST SOFT AND ADMIT MANAGES STREET, CONTRACTOR STREET, CONTRACTOR STREET, STREET, STREET, AND ADMITS SO ADMITS A MINIMAD INVANCED CONCRETE COVER FOR MENTOR DISCRETAL AS FOLLOWS. CONCRETE SERVISITED DIRECTLY AGAINST GROUPE: 70 persi INVESTIGATION OF THE PARTY OF T 2100 ISJAHOHOMON 40 km WHAT ABOVE GOVER 29 809 SECRETARIA DOCUMENTO BY CEY BIJLE IN APLIANCE PRINCE TO COMPLETE WID SHOULD FOR DETERMINISTERANCE WITH TABLE 1 (TABLE OF LAP SYLCE KID AND HORSE LARGEST LARGEST THROUGH BY CANADA SPWYNGS, SPLIES SHALL BE SCALLERED INFRAVERPOISSICP. TALL INDIVIDUALS, \$395LB, AND STIGHT BROWN AND IN PROPERTY RESPONSABLE. INTO PROTECTION PROPERTY AND A TOP AND AND ADMINISTRA IL DOMENACION SHALL NOTE AND PROVIDE ALL HISCOLANDOLS CORRES DALA WHICH, HOLPHRICH. NO MEDICAL PART AND RESIDENCE AND AN ARMAD STATEMENT WITH THE WORLDOOM OWN MECHANICAL OFFICIALS. A SECONOMICO TROUGO O WELLERAY FOR BRANCH CONSTRUCTION OF STREET APPROVED INCTIONS or progress or rossessed occurs. DONORSTE. CURRE **Emisperior** 31165 SUSPENSED SLAS ENCEPT MILES ECHYS! PETERTAL COLUMNS WALLS 10405 KONN 21.04019 IS DEVELOPINED LONGISH FOR ALL MARKS SHELL HE A MINISTER OF GLEAR DANKETER LINESS STATEBOOK NATION. STRUCTURAL STREET AND PLATER HIL STRUCTURAL BYOLD IN ALL KONFORM FOR ARTHUR, HIS SPECIFICACIONS WITH MINAMENTED STRUCTURE OF A SERVICE OF THE SERVICE OF TH T ANCHOR & PASTEMER ROLTS, ALL BOLTS SHILL DISPOSED TO ROTS (E-RET) IN CONCURS. A WELDING FORE, ALL WELDING FIGURE BY MICH STREET, CLESSFORE, LON-14/DOCCH ETWIN (87) PROMOTERALS DESIGNED SASED ON NATIONAL BUILDING CODE OF THE HILLIPPORT HOLIZON MALESMAN. BOIL BEARING OWNERS OF DESIGNA 2 FOUNDATION SIGNAL HEAT GREEN VALUE AND LIGHTED THE BROOMSTON OF THE POUNDATION OF IT THE CONTENTED BAND WOTCH THE DAMNED SPER CONFIDENCE OF PRINCIPAL ROWARDS FOR ACTUAL SOC. CONDITIONS WHEN CONTRICONFORM TO THE AGE ASMAND GROUNT FOR MINY STORING ON HARDNIET WALLS CHAINATERAN & PORMANDER INNA REMINISTRATION PROPRIESTINGNOS A DESCRIPTION OF THE STRUCTURE, COSE OF THE THEORY SEAL MATHEMALISCING COME. 2 MORTAR'S GROUT FIRE HIS CONCRETE IMAGENEY SHALL CONFORM TO RETACHE THE RIS. THE REPORT OF THE PROPERTY OF If ALL DRIVE (IN), RECURS OUT WITH THE OBJUST HUROSTRUCTED HUROSAL COSTS NOTICE ALL CELLS EMPEDIA DE THORE NOTA HARMEDICAMENT DANS DE PLOTA DEPUNDATION. A PRINCIPALISMENT AS TABLESTED BOLOW HALL BY WISOCOCKA JOST OTHERWOOD IN THE FILM. E ALL MARDINY WALLS SHALL SE PROVIDED WIST IT LIKEN SEAMING DE A SE PRIMITERAL SE SAME. SA FOR BONDALIS REPORT HER MY ROCKING BOLT AT 2005 YOUR CHOOSESS. TO FOR SURER'S WINDOWS DRY MY PERMIT CHEST, BOM AND ALST STOPPING HAM BLOCK. **GENERAL NOTES** SCALE: NTS





Republika ng Pilipinas Lungsod ng Quaren

CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF FORESTRY DAY CARE CENTER

1990 CONTRAL PAST TRAVELD, USTRICT 4, QUILDIN OF

mountains:

HOOKNOW

DATE: SAMEN
CHICARD NET AND
CHICARD NET AND
CHICARD NET AND

REVENOUND:

ENOR, LED S. DEL ROSARIÓ

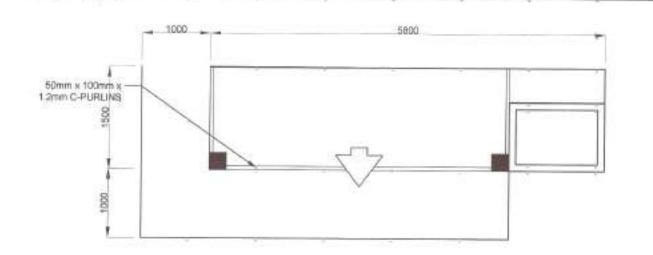
ENGR. ISAGASE R. VERZOSA, JR.

U BURNAL HOTELS PRAIRIEMTON PLAN 2004A DECHA GETALLI COLLEN PROTESS BURNAL

HON, MA. JOSEPINA G. BELMONTE

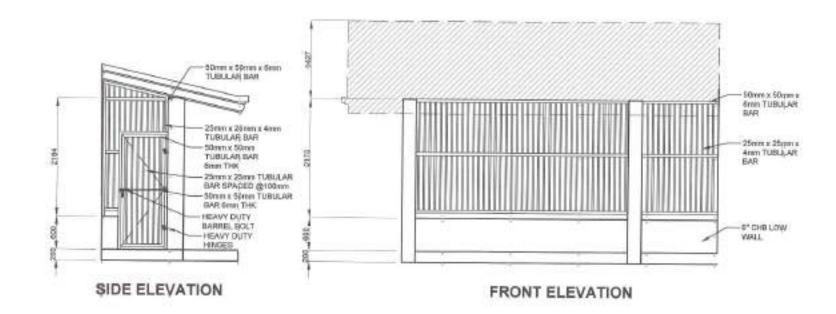
CRYMMON, DIEDECTY

ST-1 05 09



ROOF FRAMING PLAN

SCALE: 1:50W.



FENCE DETAILS

BCALE: 1:50M DEED NO.



Republika ng Pitipinas Lungsoding Quayon CITY ENGINEERING DEPARTMENT PROJECT TITLE: PROPOSED REHABILITATION OF FORESTRY DAY CARE GENTER

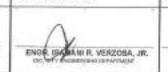
SMOY OBSTRUCT EAST TRANSPORT OF GREEN STATE

SUDDETTIED OF DEDUDM A ENGR. LEO S. DEL ROSARIO/

numm V

DATE: HARRIS

FENSION NO.:



EDODAND/GNG ATTROYIL

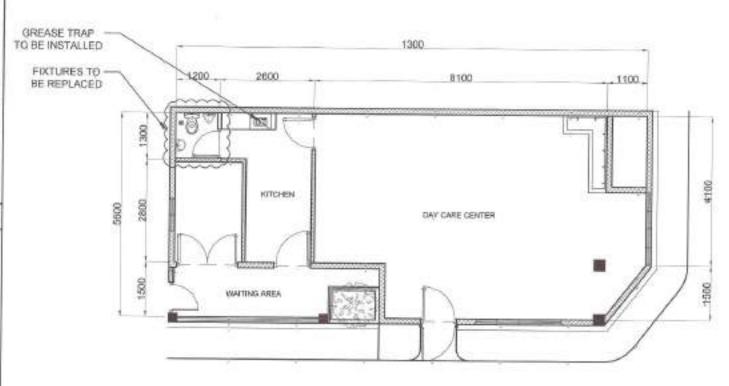
APPROVED BY: WHEN CONTENT POOF FRANKSON FLAM FRANK ORTAGE HON, MA. JOSEFINA Q. BELMONTE STEPANSON, BURISHOTS

ST-2 06 09

- ALL THE PILLINGING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE PHILIPPINE PLUMBING CODE, THE NATIONAL BUILDING CODE PLUES AND REGULATION OF QUEZON CITY. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED THE ENGRAPHICH SHALL BE NOT FIELD IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS, ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRICE APPROVAL OF THE ENGINEER OR ARCHITECT. PROPOSED SANITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL AND PIPES AS VERIFIED BY THE CONTRACTOR.
- LOCATION, DEPTH, AND INVESTIBLE VATION OF ALL EXISTING STRUCTURES ALL SLOPES FOR HORSZONFAL CRAINAGE SHALL MAINTAIN 19. MIN. UNLESS
- OTHERWISE SPECIFIED.
- SIZES OF WATER SUPPLY PIPER TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
- THE COMPACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POWT AND WATER LINE SERVICE CONNECTING POINT
- ALL WATER PIPE AND WATER TAKES SHALL BE THOROUGHLY FLUSHED AND DISINFECTED WITH LIGHT CHOLORINE OR HYDROCHLORDE SOLUTION.
- ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO A PRESSURE 1-1/2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
- ALL SANITARY AND STORM CRAININGE PIPES SHALL BE HYDROSTATICALLY TEBTED AT LEAST 3.0 MTS. HEAD TO BUSINE THAT THE SYSTEM ARE
- ALL DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIMETER. UNLESS OTHERWISE SPECIFIED.
- ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DAMETER.

GENERAL NOTES





LEGENDS AND SYMBOLS

PLUMBING LAYOUT

SCALE 1:75M DETTHE



Republika ng Pilipinas Lungsod ng Quaron.

CITY ENGINEERING DEPARTMENT

F	PROP	OSED	REH	ABILIT	ATION OF
	FORE	STRY	DAY	CARE	CENTER

STOCK CONTRAL CASE THANGLISL INSTRUCT & CONTRACTOR

MOUNT THE

CHERNOT UN DATE: BOJOSE CHECOGORDIAN: JOH ENGR. LED S. DEL ROSARIO PERMISSION NO.





TEGENOS AND EVANOUS. HON, MA. JOSEFINA G. BELMONTE

CITY MAYOR: QUEZON CITY

BHEET CONTINUE

APPROVED BY

PL-1 07 09

GENERAL NOTES:

- ALI ELECTRICAL REPORT SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATERT CONTION OF THE PHALLERING. BLACTRICAL CODE. THE LAWS AND DISCHARACES OF THE LOCAL CODE IMPORTING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER RIST TELET-LORE, LITELY CORPORE.
- THE COMMACTOR IN-RELIEF RICHE ALL PERMITS AND SAY ALL RESIRROLISES FOR WORK AND SHILL PLEASE THE OWNER THROUGH THE SYSTEMSE FIRST, CONTRICATES OF ELECTRICAL RESPECTION AND APPROVAL PROMETED SCHOOL WORLD AUTHORITIES FOR COMPLETION OF SIGNS.
- AULEMBROODS BRANCH CHROLITS SHALL HE PAY CONDUITS AND FOR EXPOSITS MATELLATION SHALL HE HE SUPPORTED BY CONDUIT CHAPMS OVERY TO MULLIMETER
- PALL ROSES SHALL RE PROVIDED BY THE CONTRACTOR WARRANCE INCORRENCY TO FACULTATE WITE PALLING DYNAS THESE. ARE NOT RECORDED ON THE DOCE REQUIREMENTS. SHALL BY CHAPLED TO THE DOCE REQUIREMENTS. SHALL BY SHAP CHAPMENT TO THE ENGINEERY OF AN AREA TO PARRICULAR, FROM TO PARRICULAR, COCATION OF BALLINGS. APPROVIDED OF THE AREA TO PARRICULAR OF THE AREA TO PARRICULAR OF THE AREA TO THE AREA TO PARRICULAR OF THE AREA TO THE ARE
- 8. ALL POWER OUTLETS WAS INVIDENCE SHALL BE GROUNDING THRE WITH PARALLEL SUCHS FOR 200 V.
- II. ALL METALLIC CONDUITS, CHRINETS AND ROLLEGISTERY (SHILL REPROPERLY GROUNDSD AND SONCES.
- 7. JARLESS OTHERWISE NOTED, MIGLINITING HEIGHT FOR WALL MOUNTED DEWOES GHALL BE AS FOLLOWS.

RECEITACLE OUTLET - 300 MB AFF , (1806M ABOVE WOEKNO CO DATER LIGHTNE SIRTON - 1400 MM AFF FRIELDOURD - 1600 MM AFF

- HEFER TO MECHANION, PLEASING AND FIRE PROTECTION DIVININGS FOR TATINGS WID LOCATIONS OF SOLIFMENT AS WILL
 AND THEIR CONTROL SEQUENCES AS EPROPHED AND DISSIMON LIABILITY THEIR RESPECTIVE DECIDIANS.
- 6. ALL MATERIALS TO BE USED SHALL BE OF THE BOST CLIMITY. SAME SWAR SPECIFICS.
- THE DRAWNESS AND IMPROVIDENCE WAS INTENDED TO PRESENT MINISTRA, LAYOUT AND IMPORT CULTURE DESCRIPTION OF THE PROJECT BUT DO NOT MINISTRANCE INSECTION DESCRIPTION ACTUAL LOSS FOREL WAS AND CONTRACTOR OF THE EQUIPMENT. THE CONTRACTOR IS REMIETE PROJECTED TO MAKE SUCH ACTUAL TIMES AT THE JUSTICE BY LOSS FOR A MINISTRACTOR.
- ANY CREPROVADY RETWEEN THE PLANS AND INFORMACIONS SIMIL, RESPONDENT TO THE ATTENTION OF THE ENGINEER HOW CLAMPHICATION RECEION.
- 12. ALL LIGHTING WIS CONVENIENCE QUILLET ORGANIS SHILL BE 3.5 SQ ABS, THEN COMPRIS WIRE URLESS CONDITIONS NOTICE HERMAN SIZE OF MORE SHALL, SK 3.6 KD, MA. CONFON WHILE, HELD BRESS WAS DARK STRANK AN OXORICORD AS YOU GAVE.

LINE 2 - TELLOW CROWN D - GREEN

 SORES, WHIL GUTTERS, ENGLISHER SHALL HE FRENCHTED PROMOTED. NETH THORSESS AS FOLLOWS WOORAGE HISTHOT THE WIDGST SURVINES STORE.

UP TO MICHORISE YES ROME.

SAY IN PRINCED WITH METTAL PRIMER BROOK AND TOPOGRAY

OWER JEST IS MAN BUTTANT OVER YES THE

OWER JEST IS MAN BUTTANT OVER YES MAN

OWER JEST IS MAN BUTTANT OVER YES MAN

OWER YES MAN BUTTANT OVER YES MAN

OWER YES MAN BUTTANT OVER YES MAN

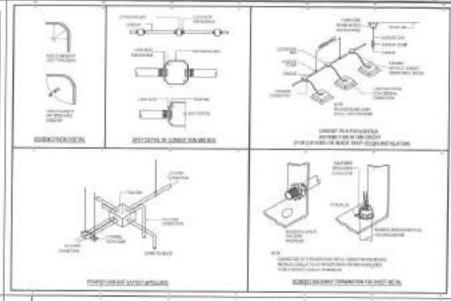
OWER YES MAN BUTTANT OVER YES MAN TOPOGRAY

OWER YES MAN TO

ALL ELECTRICAL WORKS HERELY DHALL BE EXECUTED BY EXPERIENCED MEYLAGER THE IDENCT SUPPLYMENT OF A
FULL-TIES LIGHTED SELECTRICAL. BIND HERE AND A DELY ADDRESTED ELECTRICAL CONTRACTOR BY POSE WORKS GIVEL
BY NOATH FILADED, SECURELY VANTHIED AND PROPRIET TRUSPED.

- THE OF SEPHICE ENTRANCE GHALL ME SPACES PHARES, TWO-WIFE PLUS GROUND, NO HERTE, 250V ACHOMBUN.
- TO CONDUCTOR WAS CASE SHALL THOSE BY HERE THAN THE HISTORICENT OF FOUR GUARTET BOYES IN ANY ONE BLACK ALL CONDUCT SENCE SHALL SE FISI, DINDE BY USING HISPARKED BENCHME, MINISTRANDING MACHININGS IN ACCOMMISS. YO THE COLD REQUIREMENTS.
- 18. UPON CONFIDENCE FOR PRINCIPAL CONSTRUCTION HIGHS, RELIATION RESOURCE TEXT AND PLACTIONALTY TEXT DIALL. BE REPORTED IN CONTRACT ON PORCE APPROVED BY THE SUCCOUNTY DESCRIPTION OF THE PROVED BY THE SUCCOUNTY DISSIBILITY DISSIBILIT

0	18WATTS PRAJORT
φ-	18WATTS LED BULB
	2X18W RECESSED TROFFER THE
_	TS, ZHWATTS LED TUBE LIGHT
16	SPACE CAND SMOCH (LIGHTS)
2500	TWO GANC SWEETH (LIGHTS)
Ster	THREE GANG SWITCH (LIGHTS)
m*	SELECTOR SWITCH (FAM)
Ф	DUPLEX CONVENIENCE DUTLET
9	CELING FAN
厚	EXHAUST FAN
	PANEL BOARD



2 LEGENDS

SCALE: NTB

MISCELLANEOUS DETAILS

SCALE NTS

PP (DAYCARE)

			-				CRI	CUTT BREAT	KEN :	Wi	RES AND CONDUI			
OKT.NO.	LOAD DESCRIPTION	VOLT	POWER	POWER	POWER	POWER.	POWER	WER CURRENT (AMPERE)	AT	AF	p	UNGRND	GROUND	MMS
									TAHAN	TW	TYPE			
1	3 - TROFFER, 4 - PINLIGHT, 3 - TS, 4 - C.FAN, 2 - E.FAN	230	2307	10.08	20	50	32	2 · 3.5 mm²	1 - 3.5cm²	20 mm Ø PVC				
2	6 - CONVENIENCE GUTLET	230	1080	4.70	30	50	2	2 - 3.5 mmF	1 - 3.5mm ²	20 mm @ PVC				
TO	TAL CONNECTED LOAD		3567	14.73		-								

CIRCUIT PROTECTION COMPUTATION:

It = (3387 / 230 V) * 125%

1-18,41 ampere

OVER CURRENT PROTECTION:

USE: 60 AT, 2P CB BOLT-ON

MAIN FEEDER:

USE: 2-14mm² THHN WIRE & 1 - 8.0mm² TW GROUND WIRE IN 25mm Ø IMC TYPE

1 GENERAL NOTES

SCALE: MTS

LOAD SCHEDULE

BOALE:NTS



Republika ng Pilipinas Lungsod ng Queson TTV ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF FORESTRY DAY CARE GENTER

BROT CONTINUE HAST THROCKING DISTRICT & CONCROSSIONS

SATE TO BOWN

OF CHICKEON IN

DRAWNER

RESERVANCE.

ENGR. LED S. DEL ROSANIO

ENGR. ISAGANAR, VERZOSA, JR.

HICZNAMINONO APPROVAL

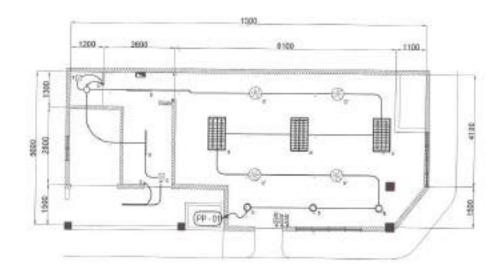
HON, MA. JOSEPINA O. BELMONTE OTT MARIA, GLEXIGOTT

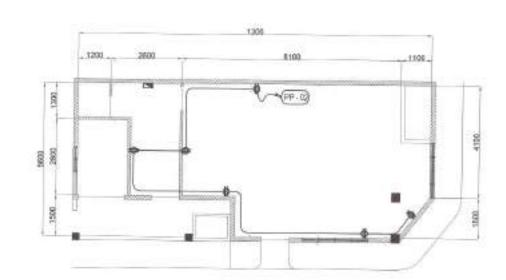
APPROVED BY:

DENERAL NOTES LEGINES MINUSCLAMBOUS DETAILS LOAD SCHOOLS

SHEET CONTENT.

EL-01 08 09





PROPOSED LIGHTING LAYOUT

SCALE 1:100M.

CHANNETY COM

PROPOSED POWER LAYOUT

THE PROPERTY AND ASSESSED.

SCALE 1:100ML 0.617.00

SHEET CONTENT

Republika og Pilipinas Lungseding Quezon CITY ENGINEERING BEPARTMENT PROPOSED REHABILITATION OF FORESTRY DAY CARE CENTER

PRESENT TITLE:

DATE: BOJON OHIOHIDAL WH LIXAYEN BIGV. CONTRAL GAST TRANSLEL CIETRICT 4 . GURZON GTV Ніумскую:

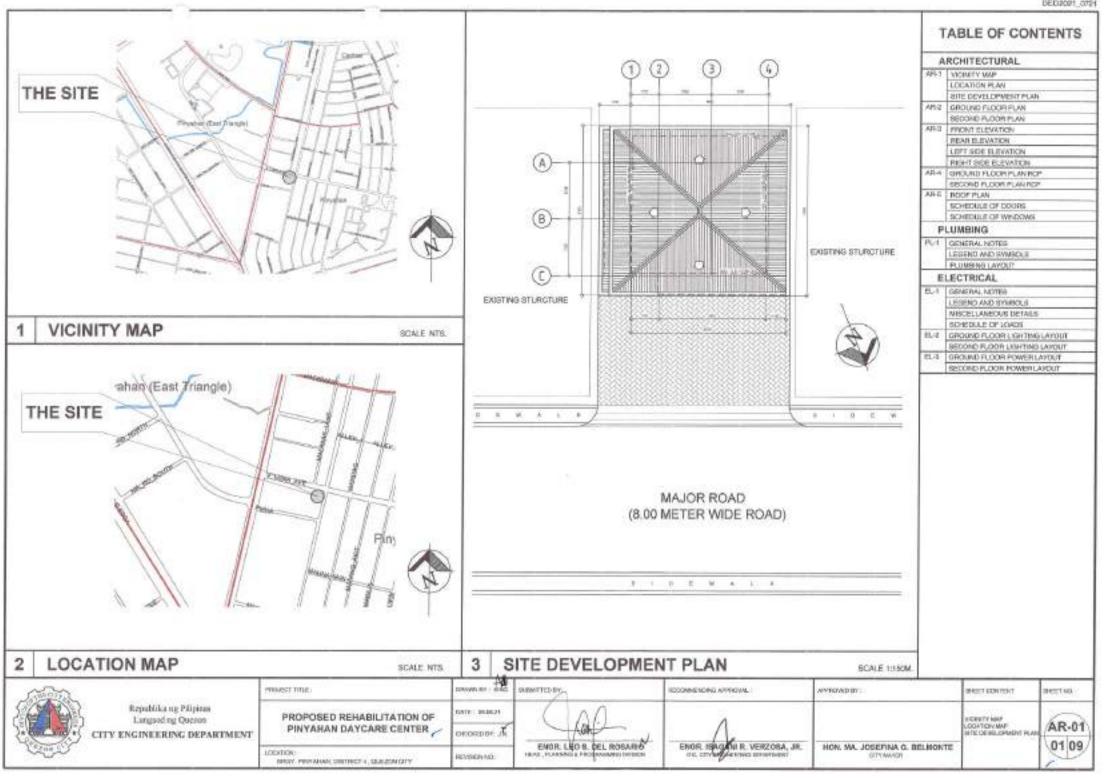


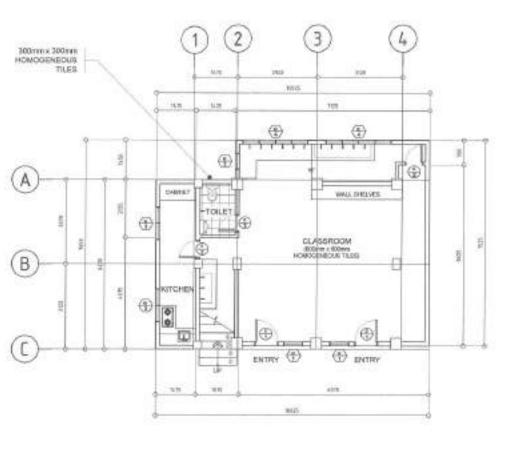
ENGR. ISAGAN R. VERZOBA, JR.

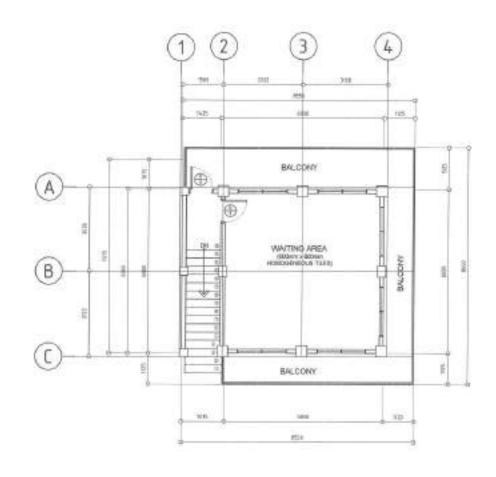
PROPOSED LIGHTING LAYOUT PROPOSED ROWER LAYOUT HON, MA, JOSEFINA O, BELINONTE CITY MAYOR, SUBJON CITY

ANTHONEO BY

EL-02 09 09







- 1. PLOOF TILES INCLUDING STARS THES TO BE
- WALL TILEB AT TORIET TO BE REPLACED.
- ALL DOORS TO BE REPLACED
- ALL WINDOWS TO BE REPLACED. 5. ALL COUNTER TOP TILES TO BE REPLACED.
- REPLACED

GROUND FLOOR PLAN

SCALE 1:100M.

DOWNER TO

PERMIT

SECOND FLOOR PLAN

1. FLOOR TILES AND STARITLES TO BE

Z ALL DOORS TO BE REPLACED

SCALE 1: 100M. SHEET NO.

Republika ng Pilipina: Langsoiling Quazon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF PINYAHAN DAYCARE CENTER

PROJECT TITLE:

DECEMBER A REWISCHING: BOOK PRIVANING DISTRICT A CLEZISVICTY



REPLACED

	1
	Λ
SARSO (HIGH)	ENGR. ISING NE R. U

RECOMMENDING APPROVISE

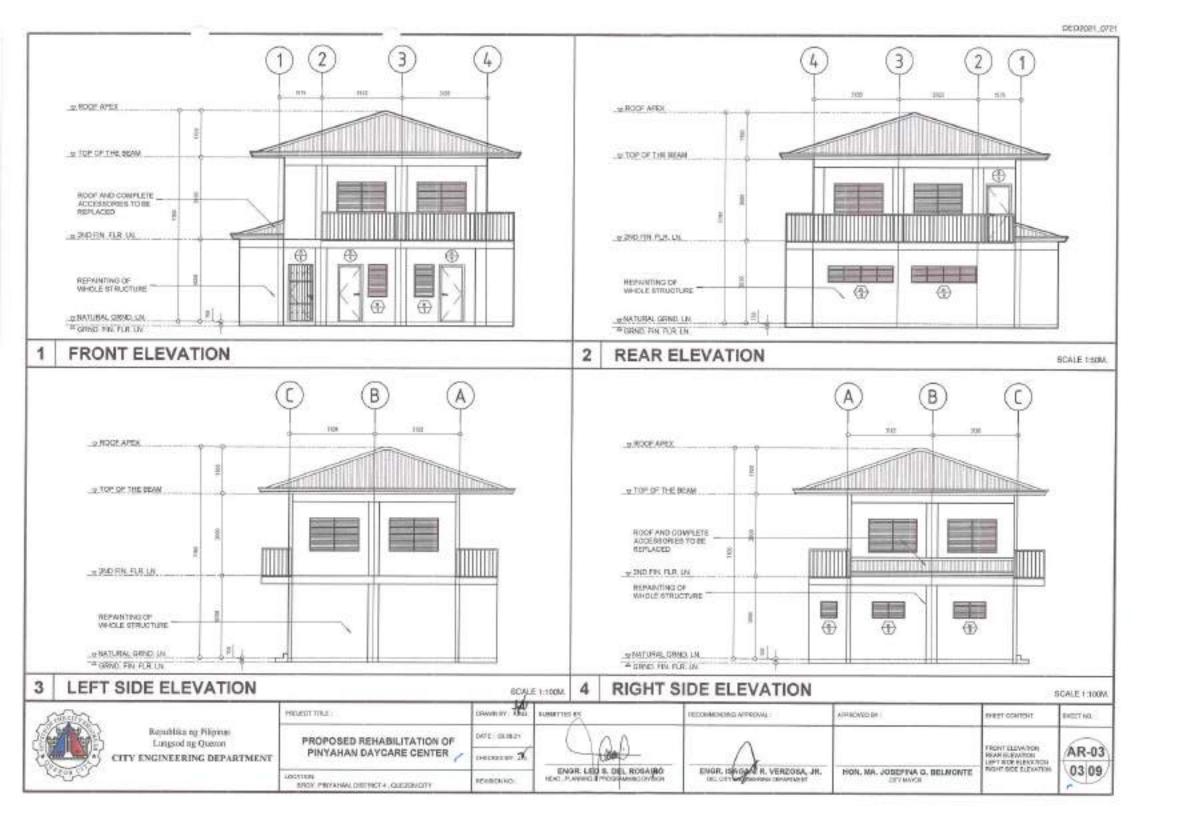
/ERZOSA, JR. DESCRIPTION

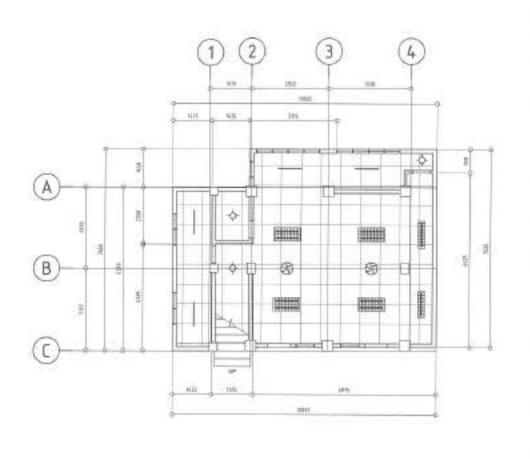
GROUND FLOOR PLAN 6800MD FLOOR PLAN HON, MA. JOSEFINA G. BELBIONTE GTY MATCH

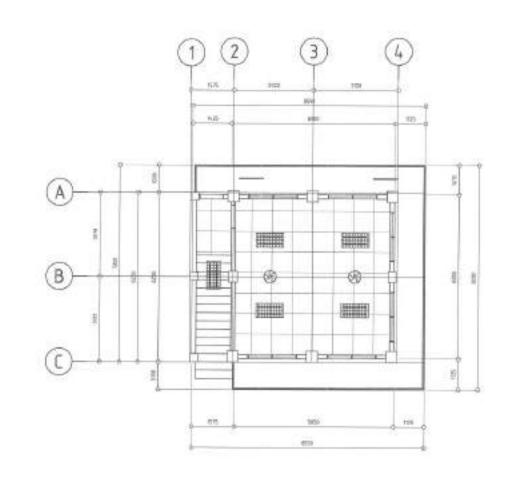
SHIET COSTESS

EPROVIDIO:

AR-02 02 09







NOTE: 1. CHUNG AND COMPLETE ACCESSORES TO BE NOTE

1. CELING AND COMPLETE ACCESSORIES TO BE REPLACED

GROUND FLOOR REFLECTED CEILING PLAN

SECOND FLOOR REFLECTED CEILING PLAN

SCALE 1:100M SHITTING.

Republika ng Pilipinas Langsod ag Quezon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF PINYAHAN DAYCARE CENTER /

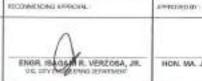
BROY, PRIVATIVE DISTRICT + , QUESTINGTY

PROJECT TITLE

DOWNER HAD pATE: ESCRIPT AL SERBORGE REVESOR NO

SCALE 1:100M.

ENOR LED'S, DEL ROSARIQU

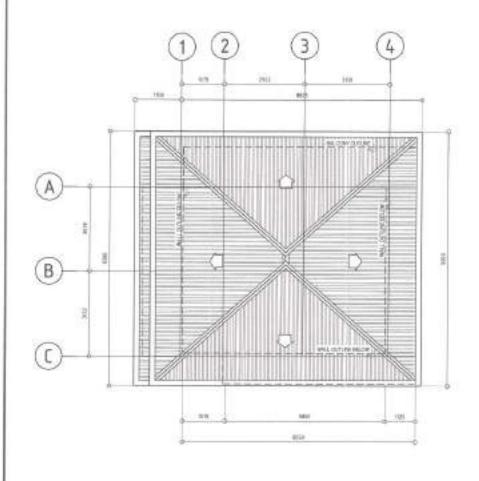


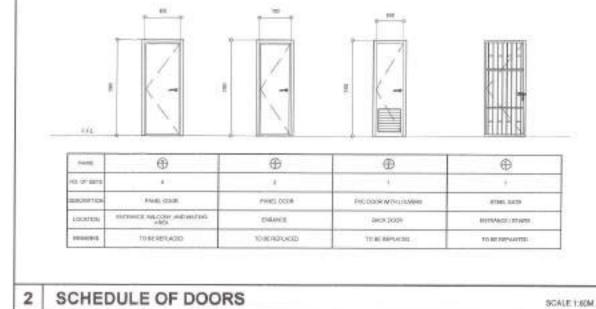
RECOVERNORS REPROVAL

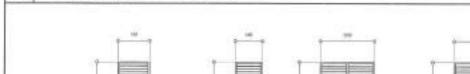
MINOURE PLACE
REPLECTED COLLING PLAN
REPLECTE HON, MA. JOSEFINA G. BELMONTE **QTYMUTOR**

типноэтсэне

AR-04 04 09







1488	0	⊕	0	(D)	
NO OF MEN	4	4	1	7.	
BURNING SURENCES CONTR.		NUMBER PORCE STATES ALCOHOMICON	ALMORDE PONDE PONDER COATRO ANCIONE MARCON	ALLERS SCHOOLS POSSESS COVERS ALLERS WAS COM-	
LOCATION	(EARPROON	AND AND BUT STOLE	stom	rent Assess dept.	
attacker.	THEFTON	TO BE SEPARAL	THAT SIPLACES	104040cm	

#29KDHED 691

1. KITCHEN ROOF WITH COMPLETE ACCESSIONES. TO BE REPLACED

ROOF PLAN

SCALE 1:100M.

REMINDENCY.

SCHEDULE OF WINDOWS 3

SCALE 1 BOW. DESCRIPTION.

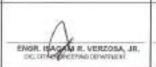
Republika ng Pitipinas Lungsod ag Quezon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF PINYAHAN DAYCARE CENTER /

SRGY, PRYSHWILDSTRICT 4, GLESSWOTT

PRODUCTIONS

DEWNERS CONT THE COTTRACTOR DATE DESERTE CHECKEDER IN

ENGR. LEG 8. DEL ROSANIO



RECOMMENDAYO, APPROVIS.

ROOF PLAN SCHEDULE OF WINDOWS HON, MA. JOSEFINA G. BELMONTE

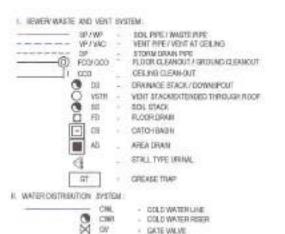
THEIT CONTRACT

AR-05 05 09

- ALT THE PLIMBING/SANTARY WORKS SIGLICED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE PRILIPPINE PLIMBING. CODE, THE WITCHAL BUILDING CODE, BURSEAND REGULATION OF QUEZON CITY.
- COORDINATE THE DRAWNIGS WITH OTHER HILLARD DRAWNIGS AND SPECIFICATION REQUIRED. THE ENGRY ARCH. SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THERE IN
- ALL RIPES SHALL BE INSTALLED AS INDICATED ON PLANS, ANY RELIGIBATION REQUIRED FIRST PROPER EXECUTION OF OTHER THADES SHALL BE WITH INDICA APPRICAL OF THE ENGALER OR ADDITION.
- MRDPDSED SANITARY UTILITIES SHALL BE DOMPORED TO THE ACTUM, LDCATION, DEPTH, AND INVESTIGLEVATION OF ALLEXISTING STRUCTURES AND PRES AS VERRIED BY THE CONTRACTOR.
- ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN YN MRIL UNLESSE DTHERMISE SPECIFIED.
- BZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCOMMONDE INTH THE WANGEACTURER'S INSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING LITELITIES AT SITE AND DOORDWATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
- ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY FILLSHED AND DISINFECTED WITH LIQUID CHOLDRINE OR HYDROCHLORIDE SOLUTION.
- ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO A PRESSURE.
 I-V2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
- ALL SANITARY AND STORM DRAWINGS RIPES SHALL SE HYDROGITATIONALLY TESTED AT LEAST 30 MTS. HEAD 10 ENSURE THAT THE SYSTEM ARE WASTED TITISHT.
- ALL DIVENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIUETER UNLESS OTHERWISE SPECIFIED.
- 12. ALL PIPES INDICATED DN PLANS REFER TO PIPES INSIDE DAMETER.

1 GENERAL NOTES

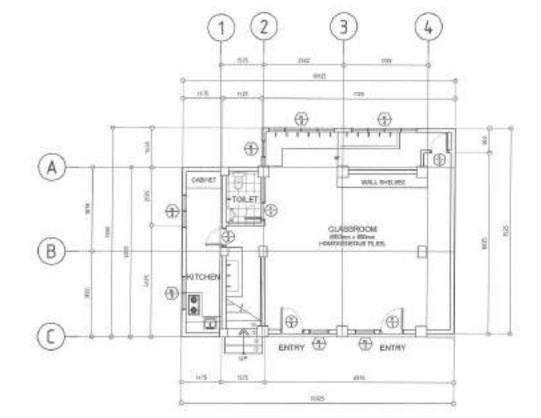
SCALE NTS.



+ DREDK YALVE

- STATEST METERS

- BALCONY DRAIN



Language .

- 1. ALL PLUMBING FIXTURES TO BE REPLACED.
- 2. ALL PAUCETS TO SE REPLACED

2 LEGEND AND SYMBOLS

U O

(N) WHI

O 10

SCALE NTS.

3 PLUMBING LAYOUT

SCALE 1:100M.



Republika ng Pilipinas Langsod ng Queson CITV ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF PINYAHAN DAYCARE CENTER

BROY, PANYAWAY DISTRICT 4, GLEZEN HETY

PROJECT TITLE:

OFFICE STATE

ENGR. LED S. BEI, ROSARID



HON, MA. JOBEFINA G. BELMONTE

DET MONO!

SHEET CONTINUE

NAME OF A CONTRACTOR

PL-01 06 09

GENERAL NOTES:

- ALL ELECTRICAL WIGHES SHALL HE COSE IN ADDORDANCE IN/OH THE PROJUBIOHS OF THE LATEST KENTON OF THE PHILIPPING. H. ECTRICAL CODE, THE LAWS AND DRIBLINGES OF THE LUCAL CODE ENFORCED AUTHORITIES AND THE REGULARMENTS OF THE LOCAL FOWER AND TELEPHONE STILLY COMPANY.
- II. THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FOOD REQUIRED FOR THE WORK AND ENALL FLIGHESH THE OWNER THROUGH THE CHOMISSING. PHIAL CERTIFICATES OF ILECTRICAL INSPECTION AND APPROVAL PROMISED GOVERNMENT AUTHORITIES FOR CONFLETION OF WORK
- 3. ALL EMBODED BRAVEN CROUTS SHALL BE INC. CONDUTS AND FOR EXPOSED INVITAL LATION SHALL BE INC. SUPPORTED BY CONDUST CLAMPS EXERY FOR MILLIANTER
- 4. HILL BOXES INVAL BE PRIVADED BY THE CONTRACTOR SASSIEVER HECESSARY TO HIGH DAYS WERE PAULING EVEN IF THOSE ARE NOT INDICATED ON THE RUANIC INDICATE OF ALL PLALIFORES SHIPL, BE COMPUTED BASED ON THE COOR RESOURCE IN. DUBIET SHOP SRAWINGS TO THE ENCAREST FOR APPROVAL PRIOR TO PARKOATION, LOCATION OF PAUL BOXES SHALL BE APPROVED BY THE ARCHITECTERORIES AND WAST BE ASSESSED IN THE "89-BELT" PLAN
- 5. ALL POWER OUTLETS, AND SINTCHES SHALL BE GROUNDED TYPE WITH PARALLEL SLICTS FOR THE V.
- 8. ALL RETALL ID CONDUCTS, CARNETS AND EQUIPMENT SHALL BE PROPERLY VISIOUNDED AND REDURED.
- F. LIFE STREET, WITH DESCRIPTION WAS A SCHOOL OF THE RESERVE OF WALL MONITOR OF VICES IN ALL ME AND ADMINISTRATION.

MRCBPTAGLE OUTLIT - 300 HM AFF , FIRMM ABOVE MORKING COUNTERS LITERATION SYNTON - 1480 MM APP PAREL BOARD - 1008 WILLIAM

- REFER TO MICHANICAL FURNISHO ASPITRIC PROTECTION DRAWINGS FOR BATHISD AND LOCKTIONS OF SCHEMBERT AS WELL. AS THESE CONTROL SECURITIONS AS EFFECTED AND OR SHOUNI UNDER THESE RESPECTIVE SECURISES.
- ALL MATERIALS TO BE USED SHALL BE OF THE BEST GUALITY. SPAND HOWAS SPECIFIED.
- 10. THE DRAWINGS AND SPECIFICATIONS ARE INTEREST TO PROJECT DESIGNAL LATOUT AND INCOME. OF THE ORDER OF THE PROJECT BUT DO NOT INSCEDEN BY RECOGNISCED FORMAL LOCATIONS, LEVEL AND EXETANCES OF THE SOURPMENT, THE CONTRACTOR IS HERREY REQUIRED TO SAVE SUCH SOURTERY AT THE JOSSEE AS JOSSEEN DISTANCES. WAS LEVELD AND GOVERNED BY ACTUAL MICLD CONDITIONS.
- II. ANY DISCREPANCE SETWEEN THE PLANS AND SPECIFICATIONS SHALL BE SHOUGHT TO THE ATTENTION OF THE ENGAGES FOR сылинсатком ресияном
- SE AU, LIGHTING AND CONVENIENCE OVILLE OROUTE SHAUL BE 38 EQ. MIR. THAN-1 COPPUR NATE URLESS EXTRACTORS NOTED HIS AUGUST OF WAR SHALL BE 1.5 TO MILE COPPER HAVE ALL WHILE AND CASE IS SHALL BE COLOR COSTS AS FOLLOWS

Less to Rest LINE S-YELLOW DROUGHT - DRIEDLY

III. BOSSA, WIRE, IULTERRIC DISCIONARI SHALL BE FARRICATED PROMITTIES, WITH THICKNESS AS POLICIES. MAXIMUM RESIDE OF THE MESEST SURPLICE STEEL

OF TO INCLUSING HE 49 MW.

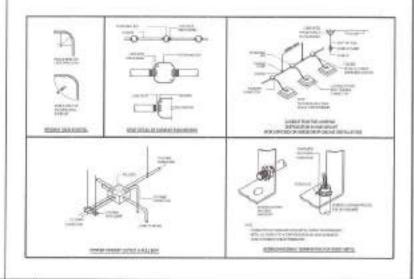
GA 16 PAINTED WITH METAL PRIMOR DROWN AND TOPOGRAT GA 14 FWENTED WITH RECTAL PRIMER EPONY AND TOPODAY

PROMOT TITLE:

OVER 182-IG MIN BUT NOT DVEN 48190 OVER 457.00 HIN BUT HOT DIVER TROMM. GA 12 PAINTED WITH METAL PRIMER BYORY AND TOPODAT. GA 10 FRRITED WITH METAL PRIMER EPOXY AND TOPOCAT

- 18. ALL BLECTRICAL VICING HEREII BAALL BE EXECUTED BY EXPERIENCED MEMOLIDES. THE DIRECT SUPERVISION OF A PULL-TIME LICENSED ELECTRICAL SINGERES AND A BULY ACCREPATED ELECTRICAL CONTRACTOR SY PCAS, VICINOS SHALL SE HEATCY PLACED, SECURELY PASTERED AND PROPERLY PINISHED.
- IS TYPE OF SERVICE ENTRANCE SHALL SE ISSUE FRASE, TWO HISE PLOS OROUGH, ISSUEDTZ, ESIVIAG HOMBAL.
- 17. COMMUTE IN NO CHEC SHALL THERE BE WORE THAN THE EQUIVALENT OF FOUR QUARTER SENSE IN ANY ONE RUN. ALL CONDUCT BENDS SHALL BE FIELD MADE BY MISHIG HYDRALD.C BEINDERS, IRRINOLD BEINDING HAD IN MISH BE IN ACCOMPANSE TO THE CODE REQUESTMENTS.
- 18. LPC4 COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESIDENCE TEST AND PUNCTURAL BY TEST SAUL. REPROPOSED BY THE CONTRACTOR RIQUENE OF THE HETALLADOR TO BE REPORTED IN DETAILS ON FORMS APPROVED. BY THE QUESCA CITY ENGINEERING DEPARTMENT REPROSENTATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SHEYEMS SHALL NOT BE WORK THAN 5 CHMS, CORMANISATION GROWING RESISTANCE SHALL NOT CHOSED 2 OH MIS.

-0-	109A7TE US PAGE
	2006# RESESSES TRUTTER THYE
	TOTAL RECESSED TREATER TYPE
-	TS, 28WATTS (42) LIGHT
47	ONE POLE SWITCH (DICHTE)
29"	TWO PIOLE SMITCH (CHOHTIC)
14	THEE MAY CHE GAME SHITCH (JOHTS)
John."	THREE MAY THREE DANG SHITCH (LIGHTS)
w'	SELECTION SINTEN (FWI)
Φ	DOWLEX CONVENIENCE COULTS
9	COLING FAN
	PANEL SOARS



LEGEND AND SYMBOLS 3 2

MISCELLANEOUS DETAILS

SCALE: NTS

PP1(EXISTING)

IST.BO.	MANDENDATION	Metr	POWIE	AMERICA (AMPLIE)	CRCSTMANAGE			WHEN MEDICANIEST.	
						AF MI		BAGRIEO	580090
-		-	-	7		17		NWW.	TW
1	8-100FER, 3-846,0. 3-10, 3-1, 500.	110	1588	529	29	50		2-1200	1-8 2000
1	A - DOWNER WACE DUTT.ET	.111	78	8.33	39	18	1	1-Sheet	1-13ner
. 4	THE TANK	118	1000	4.23	80	18	- 1	1-Steef	1-1-hims
- 11	STALL COMMETTED LEVEL	111	Trings .	15-25					

CERCUIT PROTECTION COMPARATION.

6+(9008/230V)*3ZVIII 6 = 16.37 persons

OVER CHREAT PROTECTION: LIST SO ME, THE RESERVOIT ON THE STREET

MAIN PERIOR:

USE; 2- Senior THIRR WINE & 1 - 8 Short THI GROUND WINE IN ISSUAR INC. THE JOISTING

PP2(EXISTING)

Luid 25 septem

		1000		COMMO	CHECUT MILAGES			WHILE WAS DESIGNAT.	
at wa.	LIMB BUILDING	MOST	HOWIE	(NAMARI)	41	W		LINESPEE Turker	SEE AS
1	3-100118, 3-16, 2-040	24	1000	8.07	- 18	m.	1	1-11-11	3-3-100
1	281	18	1111	- 11			T	2.00	-
	#+CONVENENCE OVERALL	1.200	1500	1.31		90	1	T. Eller d	1.3.3 Sept
- 1	TAL COMMISSION UGAD		1500	5.71					

CIRCUIT PROTECTION CONFESTATION: 6+11800/19090*128%

OVER CLERENT PROTECTION: USE BOAT SECREDITION SONSTINGS

USE 2: 14-red TRYIN WIRE & 1 - B.Devel TW CREUNE WAY IM25/will & INICTYTE (DUST NO

APPROVED BY

COTTONOTOR

GENERAL NOTES

SCHEDULE OF LOADS BOALE: NTB PLEBOTTEST DV:

SCALE:NTS COTTON



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF PINYAHAN DAYCARE CENTER ..

BROY INNYAYANI, DISTRICT 4, QUEZDIVORY

DATE COORDIT онеонолич Жи

REVISION NO.

SERVICE THE

THOR. LEG S. CIEL ROSARIO-

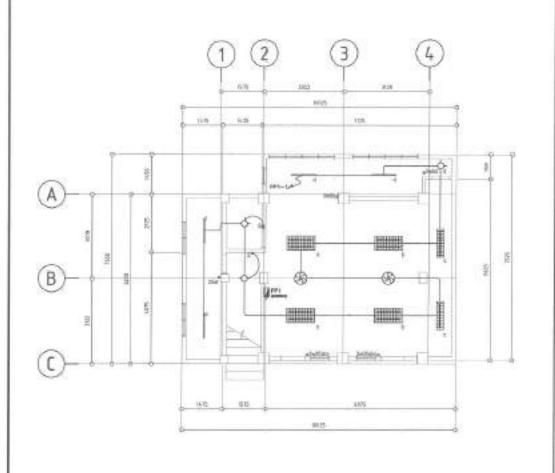
ANOTHER DRIGHTS APPROVE

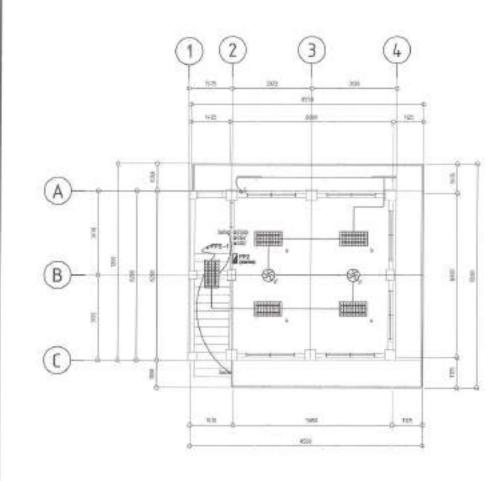
ENGR. ISAGARIR. VERZOSA, JR. HON, MA, JOSEFINA G, BELMONTE

SHORE ROTES MISCELLANEOUS MISCELLANEOUS SO-EDULE OF LIMIN

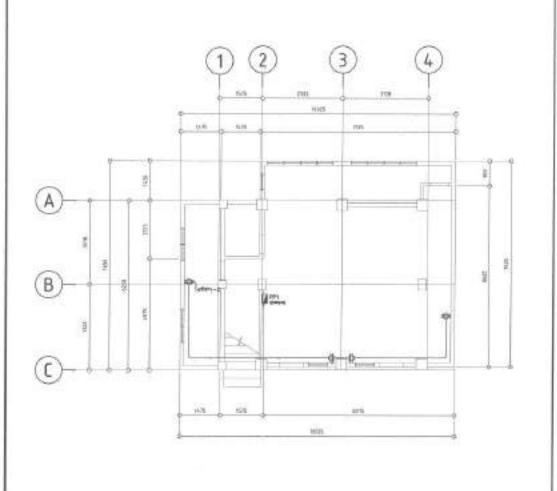
WHEN CONTRACT

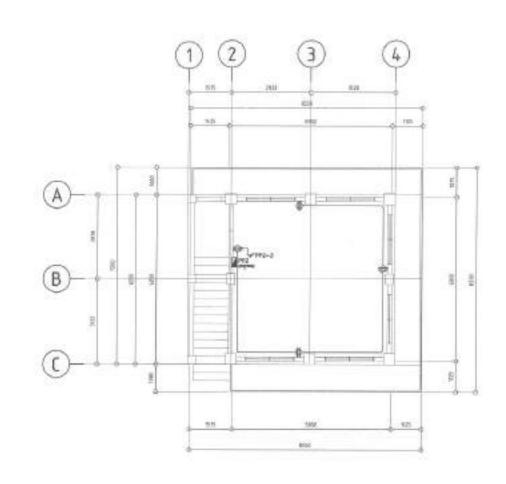
EL-01 07 09













Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

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

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

Daywork Schedule

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

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

Provisional Sums

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

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

Signature Box

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

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

PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND

REHABILITATION OF DAY CARE CENTER AT DISTRICT 4 / AREA XXIV

LOCATION : BARANGAY CENTRAL, KRUS NA LIGAS AND PINYAHAN,

DISTRICT 4, QUEZON CITY

PROJECT NO. : 21 - 00171

DURATION: Sixty (60) Calendar Days

BREAKDOWN OF COST

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I	GENERAL REQUIREMENTS				
П	SITE WORKS				
III	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	KABALITANG DAYCARE CENTER, BRGY. KRUS NA LIGAS				
I	GENERAL REQUIREMENTS				
II	CONSTRUCTION OF HANDWASHING FACILITY				
III	REHABILITATION OF DAYCARE CENTER				
	SITIO LAMBAK DAYCARE CENTER, BRGY. KRUS NA LIGAS				
ı	GENERAL REQUIREMENTS				
II	CONSTRUCTION OF HANDWASHING FACILITY				
III	REHABILITATION OF DAYCARE CENTER				
	KNL-CDO DAYCARE CENTER, BRGY. KRUS NA LIGAS				
ı	GENERAL REQUIREMENTS				
II	CONSTRUCTION OF HANDWASHING FACILITY				
III	REHABILITATION OF DAYCARE CENTER				
	PINYAHAN DAYCARE CENTER				
ı	GENERAL REQUIREMENTS				

II	SITE WORKS		
III	CIVIL / STRUCTURAL WORKS		
IV	ARCHITECTURAL WORKS		
V	SANITARY / PLUMBING WORKS		
VI	ELECTRICAL WORKS		

TOTAL COST	P
------------	---

LUMP SUM BID IN WORDS :								
Contractor :								

Bid Form Page 3 of 3

BILL OF QUANTITIES (Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF FORESTRY DAY CARE CENTER

LOCATION : BARANGAY CENTRAL, DISTRICT 4, QUEZON CITY

PROJECT NO. : 21 - 00171

SCOPE OF WORKS:

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

- Site Works include demolition/removal works, cleaning and clearing for painting preparation, layout and staking, site clearing
- 2 and preparation, excavation, gravel bedding, and backfill and compaction
- Civil/Structural works include concrete works, masonry works, moisture protection, metal works and roofing works.

 Architectural works include installation of floor finishes, wall finishes, ceiling works, installation of doors and windows, painting
- 4 works and letterings.
- 5 Sanitary/plumbing works include installation of roughing-ins, fixtures and accessories.
- 6 Electrical works include installation of roughing-ins, wirings, devices, fixtures and accessories.
- 7 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	₱	₱
	Cleaning, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	70	sq.m.		
	Temporary Enclosure Around the Construction Area (h=2.4m)	24	l.m.		
				Direct Cost I	₽
II	SITE WORKS				
	Demolition/Removal Works				
	Removal of Existing Ceiling	93	sq.m.	₽	₱
	Removal of Existing CHB Wall	1	sq.m.		
	Removal of Existing Drywall	14	sq.m.		
	Removal of Existing Handwashing	1	sq.m.		
	Removal of Existing Tiles	75	sq.m.		
	Removal of Existing Door and Door Jambs	4	set		
	Removal of Existing Windows	1	set		
	Removal of Existing Grilles	2	sq.m.		
	Removal of Existing Roof	104	sq.m.		
	Chipping of Wall for Panelboard	1	sq.m		
	Chipping of Wall for Electrical Pipes and Fixtures	2	sq.m		
	Cleaning and Clearing for Painting Preparation	395	sq.m.		
	Layout and staking	9	sq.m.		
	Site Clearing and Preparation	9	sq.m.		
	Excavation for Structures				
	Footing	1	cu.m.		
	Zocalo Beam	1	cu.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Subtotal	₱
	Gravel Bedding	1	cu.m	₱	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₽
	Backfill and Compaction	1	cu.m.		
				Subtotal	₱
				Materials Cost II	₱
				Labor Cost II	_
				Direct Cost II	₱

ITEM	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
NO		QII	UNIT	UNIT COST	TOTAL COST
III	CIVIL/STRUCTURAL WORKS				
	Concrete Works				
	On Site Mix 21 MPa, 19mm Gravel, @ 28 days				
	Column Footing	1	cu.m.	₽	₽
	Column	1	cu.m.		
	Zocalo Beam	1	cu.m.		
	Concrete Curb	5	l.m.		
	Reinforcing Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Reinforcing Steel Bar				
	10mmØ, Column	35	kg		
	10mmØ, Zocalo Beam	20	kg		
	12mmØ Reinforcing Steel Bar				
	12mmØ, Zocalo Beam	23	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Reinforcing Steel Bar				
	16mmØ, Footing	40	kg		
	16mmØ, Column	60	kg		
	Formworks				
	Column Footing	2	sq.m.		
	Column	7	sq.m.		
	Zocalo Beam	3	sq.m.		
	Scaffolding and Shoring		<u>'</u>		
	Column	7	sq.m.		
	Masonry Works		<u>'</u>		
	100mm CHB Laying including Mortar, Reinforcement	15	sq.m.		
	and Two-Face Plastering		94		
	Moisture Protection				
	Cementitious Capillary Type Waterproofing (Comfort Room)	3	sq.m.		
			34.111.		
	Metal Works Gate 1				
		26	ka		
	38mm Ø x 4mm thk BI Pipe	22	kg		
	12.5mm x 12.5mm Square Bar		kg		
	25mm x 4mm Flat Bar	5	kg		
	38mm Ø Barrel Bolt	1	piece		
	Cylindrical Hinge, Heavy Duty	3	piece		
	Metal Fence and Gate 2		_		
	50mm X 50mm x 6mm Tubular Bar	359	kg		
	25mm X 25mm x 4mm Tubular Bar	485	kg		
	38mm Ø Barrel Bolt	1	piece		1
	38mm Ø Foot Bolt (Single)	1	piece		
	Cylindrical Hinge, Heavy Duty	3	piece		
	Roof Framing				
	50mm x 100mm x 1.4mm C-Purlins	15	kg		
	Miscellaneous				

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Acetylene Tank Refill	1	tank		
	Assorted Metal Drill Bit	3	piece		
	Cut Off Blade	3	piece		
	Grinding Disc Metal	2	piece		
	Oxygen Tank Refill	1	tank		
	Welding Rod	2	box		
	Roofing works				
	Pre-painted Rib Type G.I Roofing	135	sq.m		
	Pre-painted Ridge Roll	29	l.m.		
	Pre-painted G.I Flashing	9	l.m.		
	6mm thick One-Sided Aluminum Foil Thermal Insulation	135	sq.m		
	12.5mm x 300mm Fiber Cement Fascia Board	40	l.m.		
	Silicon Sealant	3	tube		
	Tekscrew	1350	piece		
				Materials Cost III	₽
				Labor Cost III	
				Direct Cost III	₽

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	300mm x 300mm Non-skid Homogeneous Floor Tile	2	sq.m.	₱	₽
	600mm x 600mm Homogeneous Floor Tile	69	sq.m.		
	Floor Topping for Preparation of Tile Works	71	sq.m.		
	Wall Partitions and Finishes				
	300mm x 300mm Homogeneous Floor Tile (Comfort Rooms)	9	sq.m.		
	Ceiling Finishes				
	6mm thick Fiber Cement Board including Metal Framing	112	sq.m.		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	Doors				
	D1 - 0.9m x 2.1m Solid Wood Panel Door	2	set	₱	₽
	D2 - 0.8m x 2.1m Solid Wood Panel Door	1	set		
	D3 - 0.7m x 2.1m PVC Door with Louver	1	set		
	Door Jamb				
	D1 - 0.9m x 2.1m Solid Wood Panel Door	2	set		
	D2 - 0.8m x 2.1m Solid Wood Panel Door	1	set		
	Hardwares and Accessories				
	Door Hinge, Heavy Duty, Stainless	12	piece		
	Door Knob, Lever Type, Stainless	4	piece		
	Installation of Windows				
	W1 - 0.9m x 0.8m Aluminum Framed Casement Window (Powder Coated)	1	set		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Walls)	116	sq.m.	₱	₱
	Epoxy Enamel Paint Finish (Steel Fences & Roof Framing)	27	sq.m.		
	Flat Latex Paint Finish				
	Interior Walls	167	sq.m.		
	Ceiling	112	sq.m.		
	Letterings				
	250mm x 200mm Stainless Steel Lettering "FORESTRY DAYCARE CENTER"	21	set		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
					_
				Materials Cost IV	₽
			<u> </u>	Labor Cost IV	B 500.077.00
V	SANITARY/PLUMBING WORKS			Direct Cost IV	₱ 583,977.80

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	1	piece	₱	₱
	75mm Ø PVC Pipe with Hub	1	piece		
	75mm Ø x 75mm Ø PVC Wye	1	piece		
	50mm Ø x 50mm Ø PVC 1/4 Bend	1	piece		
	75mm Ø x 75mm Ø PVC 1/4 Bend	1	piece		
	75mm Ø x 75mm Ø PVC 1/8 Bend	1	piece		
	50mm Ø PVC P-Trap	2	piece		
	50mm Ø PVC Coupling	1	piece		
	75mm Ø PVC Coupling	1	piece		

ITEM	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
NO	Water Line Creaters				
	Water Line System 20mm Ø PPR Pipe, PN 16	1	niana		
	20mm Ø PPR 90° Elbow	2	piece		
			piece		
	20mm Ø PPR Female Threaded Adaptor	2	piece		
	20mm Ø PPR Coupling	1	piece		
	20mm Ø PPR End Cap	2	piece		
	Fixtures & Accessories	4			
	Bidet with Accessories, Stainless Heavy Duty	1	set		
	Floor Drain, 100mm x 100mm, Stainless	1	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Kitchen Sink, Single Tub	1	set		
	Kitchen Sink Faucet, Stainless, Heavy-Duty (Water Efficient)	1	piece		
	Lavatory, Wall-hung	1	set		
	Lavatory Faucet, Lever Type (Water Efficient)	1	piece		
	Water Closet, Tank Type (Water Efficient)	1	set		
	Accessories				
	Angle Valve, One-way, Stainless Steel	1	piece		
	Angle Valve, Two-way, Stainless Steel	1	piece		
	Flexible Hose, Stainless Steel	2	piece		
	Miscellaneous and Consumables				
	400cc Solvent Cement	1	can		
	All Around Sealant	1	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	5	roll		
	Waste Cloth	1	kg		
				Materials Cost V	₽
				Labor Cost V	
VI	ELECTRICAL WORKS			Direct Cost V	₽
	Roughing-ins, Pipes and Fittings				
	20mmØ PVC Pipe	35	piece	₱	₱
	25mmØ IMC Pipe	5	piece		
	Fittings and Accessories				
	20mmØ PVC Adaptor	70	piece		
	20mmØ PVC Locknut and Bushing	70	pair		
	20mmØ PVC Elbow	10	piece		
	25mmØ IMC Coupling	4	piece		
	25mmØ IMC Elbow	2	piece		
	25mmØ IMC Locknut and Bushing	2	pair		
	2" x 4" PVC Utility Box	17	piece		
	4" x 4" PVC Junction Box with cover	18	piece		
	Wires and Cables	1.0	PIECE		
	3.5mm² THHN Wire	2	roll		
	3.5mm² TW Wire	1			
		'	roll		
	Lighting Fixtures (Energy Efficient)		ļ		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	600mm x 1200mm, 2 x 18w LED, Troffer Type, With Complete Accessories, Recessed type	4	piece		
	18W LED Bulb With Receptacle	1	piece		
	18W LED Recessed Pinlight	3	piece		
	T5, 28W LED Tube Light	3	piece		
	Wiring Devices & Appliances				
	Exhaust Fan, Wall-Mounted, 12.0m³/min., 40Watts, 230 Volts, Single Phase, 60Hurtz.	1	unit		
	Exhaust Fan, Wall-Mounted, 8.0m³/min., 33Watts, 230 Volts, Single Phase, 60Hurtz.	1	unit		
	Orbit Fan, Heavy Duty With Selector Switch	4	piece		
	Weatherproof Outlet With Ground And Cover, Two-Gang	6	piece		
	Switch with Plate & Cover, One Gang	1	piece		
	Switch with Plate & Cover, Two Gang	1	piece		
	Switch with Plate & Cover, Three Gang	1	piece		
	Panelboard				
	PP	1	assy		
	Pipe Hangers & Supports				
	Horizontal layout of pipe	15	l.m.		
	Vertical layout of pipe	2	l.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All around Sealant	1	can		
	Electrical Tape	10	roll		
	G.I Tie Wire	3	kg		
	Hacksaw Blade	3	piece		
	Masking Tape	3	roll		
	Rubber Tape	3	roll		
				Materials Cost VI	₽
				Labor Cost VI	
				Direct Cost VI	₱

ITEM NO	WORK DESCRIPT	ION AND SCOPE OF WORKS	AMOUNT
	GENERAL REQUIREMENTS SITE WORKS CIVIL/STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY/PLUMBING WORKS ELECTRICAL WORKS		
NOTE		TOTAL DIRECT COST erhead, Contingencies and Miscellaneous 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

KABALITANG DAY CARE CENTER

LOCATION : BARANGAY KRUS NA LIGAS, DISTRICT 4, QUEZON CITY

PROJECT NO. : 21 - 00171

SCOPE OF WORK:

- General Requirements include billboard, clearing, hauling and disposal of construction materials and debris, temporary enclosure, construction safety & health and scaffolding.
- II Construction of Hand Washing Facility
- A Installation of single sink portable hand washing facility.
- B Plumbing Works include installation of waterline system, sewerline system and accessories.
- III Rehabilitation of Day Care Center
- A Site Works include removal works and cleaning/clearing for painting preparation.
- B Civil Works include masonry works, metal works and roofing works.
- Architectural Works include floor finishes, wall finishes, ceiling works, painting works, installation of doors, fabricated materials and letterings.
- D Plumbing Works include installation of waterline system, sewerline system, fixtures, hardware and accessories.
- E Electrical Works include installation of roughing-ins, wiring devices and other fixtures.
- 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
ı	GENERAL REQUIREMENTS				
	Billboard	1	unit	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	29	sq.m.		
	Temporary Enclosure around the Construction Area (H=2.4m)	28	l.m.		
				DIRECT COST I	₱
II	CONSTRUCTION OF HANDWASHING FACILITY				
Α	Hand Washing Facility				
	Single Sink Portable Hand Washing Facility	2	unit	₽	₽
				Subtotal	₱
В	Plumbing / Sanitary Works				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	2	piece	₽	₱
	100 mm Ø, PVC Pipe with Hub	2	piece		
	50mm Ø, 1/8 Bend	2	piece		
	100mm Ø, 1/8 Bend	2	piece		
	100mm Ø x 50mm Ø, Wye	2	piece		
	100mm Ø x 100mm Ø, Wye	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	2	piece		
	20mm Ø, Elbow	3	piece		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	20mm Ø, Coupling	2	piece		
	20mm Ø, Female Threaded, Tee	1	piece		
	20mm Ø, Female Adapter	1	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	roll		
	Waste Cloth	1	kg		
				Materials Cost	₱
				Labor Cost	
				Direct Cost	₱
				MATERIAL COST II	₱
				LABOR COST II	
				DIRECT COST II	₱

Q	YTÇ	UNIT	UNIT COST	TOTAL COST
Ş	92	sq.m.	₱	₱
	2	unit		
•	14	sq.m.		
	1	unit		
Ş	93	sq.m.		
(60	sq.m.		
	1	unit		
2	298	sq.m.		
			Subtotal	₱
g and Two-	17	sq.m	₽	₱
5	522	kg		
3	363	kg		
	48	kg		
6	62	kg		
3	35	kg		
	1	set		
	2	piece		
4	48	piece		
	2	tank		
	5	piece		
	5	piece		
	5	piece		
	4	tank		
	2	box		
Ş	97	sq.m		
(31	l.m.		
,	11	l.m.		
9	97	sq.m		
;	31	l.m.		
	5	tube		
	141	piece		
	172	piece		
		-	Material Cost	₽
			Labor Cost	
				₽
			211001 0031	
_				Direct Cost

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Floor Finishes				
	Floor Topping for Preparation of Tile Works	56	sq.m.	₱	₱
	600mm x 600mm Non-Skid Homogeneous Tiles	53	sq.m		
	400mm x 400mm Non-Skid Homogeneous Tiles	3	sq.m		
	Wall Finishes and Partition				
	400mm x 400mm Homogeneous Tiles	11	sq.m		
	Ceiling Works				
	6mm thk Fiber Cement Board with Complete Framing and Accessories	97	sq.m		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (0.90m x 2.10m) Swing Type Panel Door	1	set	₱	₱
	D2 - (0.60m x 2.10m) Swing Type PVC Door with Louver	1	set		
	Door jamb				
	D1 - (0.90m x 2.10m) Swing Type Panel Door	1	set		
	Hardware accessories				
	Door Hinges, Heavy Duty Stainless	6	set		
	Door Knob, Lever Type, Stainless	2	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint (Exterior Wall)	126	sq.m	₱	₱
	Epoxy Enamel Paint Finish (Steel Members)	45	sq.m		
	Flat Latex Paint Finish				
	Interior Wall	127	sq.m		
	Ceiling	97	sq.m		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Fabricated Materials				
	Aluminum Undercounter Cover	2	l.m.		
	Standing Cabinet	8	sq.m.		
	Lettering				
	Stainless Steel Signage with Neon Backlights (150mm x 150mm) "KABALITANG DAY CARE CENTER"	23	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Material Cost	₱
				Labor Cost	
				Direct Cost	₽
D	Plumbing / Sanitary 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	2	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	3	piece		
	75mm Ø, 1/8 Bend	2	piece		
	100mm Ø, 1/8 Bend	2	piece		
	75mm Ø, 1/4 Bend	3	piece		
	75mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 50mm Ø, Wye	2	piece		
	100mm Ø x 75mm Ø, Wye	2	piece		
	100mm Ø x 100mm Ø, Wye	3	piece		
	100mm Ø x 50mm Ø, Tee Reducer	1	piece		
	100mm Ø, Cleanout with Adapter	2	piece		
	Waterline System		•		
	Roughing-Ins				
	20mm Ø, PPR Pipe	2	piece		
	20mm Ø, Elbow	7	piece		
	20mm Ø, Coupling	2	piece		
	20mm Ø, Tee Equal	1	piece		
	20mm Ø, Female Threaded, Tee	2	piece		
	20mm Ø, Female Adapter	1	piece		
	25mm Ø x 20mm Ø, Reducer	1	piece		
	25mm Ø, Union Patente	1	piece		
	Valves and Appurtenances		F.000		
	20mm Ø Gate Valve, PPR	1	piece		
		1	Picce		
	Fixtures Pidet with Complete Acceptance Stainless (Mater Efficient)	4	set		
	Bidet with Complete Accessories, Stainless (Water Efficient)	1			
	Floor Drain, 100mm x 100mm, Stainless	1	set		
	Grease Trap, 5GPM, Stainless	1	set		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Kitchen Faucet Lever Type, Stainless (Water Efficient)	1	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Lavatory, Wall Hung, Kiddy	1	set		
	Lavatory Faucet Lever Type, Stainless (Water Efficient)	1	set		
	Water Closet, Tank Type w/ Accessories, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single-Way, Stainless	2	piece		
	Angle Valve, Two-Way, Stainless	1	piece		
	Flexible Hose, Stainless	3	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	2	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	1	roll		
	Waste Cloth	1	kg		
				Materials Cost	₱
				Labor Cost	
				Direct Cost	₱
Е	Electrical Works				
	Lighting and Power System				
	Roughing-ins				
	15mmØ Flexible Metallic Conduit	25	lm	₽	₽
	100mm x 100mm Metal Junction Box with cover	12	piece		
	Fittings & Accessories				
	15mmØ Angle Connector	24	piece		
	15mmØ IMC Locknut and Bushing	24	piece		
	Wires and Cables				
	3.5mm² THHN Wire	30	lm		
	2.0mm² TW Wire (Green)	15	lm		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Lighting Fixture (Energy Efficient)				
	1 x 18w LED T8 Tube Light, Box type	2	unit		
	2 x 18 LED, 600mm x 1200mm Troffer Fixture, Surface Mounted	6	unit		
	150mmØ Pinlight LED	1	unit		
	Wiring Devices				
	Orbit Fan with Selector Switch	3	unit		
	Outlet with Grounding , One-Gang, for ACU, Heavy Duty	1	piece		
	Outlet with Gounding , Two-Gang	3	piece		
	Miscellaneous & Consumables				
	Electrical Tape	5	piece		
	Hacksaw Blade	2	piece		
	Masking Tape	5	piece		
				Material Cost	₱
				Labor Cost	
				Direct Cost	₽
			ı	MATERIAL COST III	₱
				LABOR COST III	
				DIRECT COST III	₽

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS					
I II	GENERAL REQUIREMENTS CONSTRUCTION OF HANDWASHING FACILITY REHABILITATION OF DAY CARE CENTER	₽				
	E: Overhead, Contingencies and Miscellaneous Expenses (OCM) ly enforce Health Protocols relative to the tapplicable DPWH Memorandum TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit TOTAL ESTIMATED COST					

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION

OF SITIO LAMBAK DAY CARE CENTER

LOCATION : BARANGAY KRUS NA LIGAS, DISTRICT 4, QUEZON CITY

PROJECT NO. : 21 - 00171

SCOPE OF WORK:

I. General Requirements including temporary enclosure, billboard, scaffolding, construction safety and health, and clearing, hauling

- 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 Center
- 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 doors and windows, painting works and
- 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. 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	1.00	unit	₱	₱
	Clearing, Hauling and Disposal of Construction	11.00	t.l.		
	Construction Safety and Health	1.00	unit		
	Scaffolding (Rental)	64.00	sq.m.		
	Temporary Enclosure Around the Construction Area	14.00	l.m.		
				Direct Cost I	₽
II	CONSTRUCTION OF HAND WASHING FACILITY				
Α	Hand Washing Facility				
	Single Sink Portable Hand Washing Facility	2.00	unit	₱	₱
				Direct Cost A	₽
В	Site Works				
	Chipping of Floor (Plumbing / Sanitary Works)	3.00	sq.m.	₱	₱
				Direct Cost B	₽
С	Civil/ Structural Works				
	Restoration of Concrete Floor (Plumbing / Sanitary	3.00	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
D	Sanitary/ Plumbing Works				
	Sewer Line / Storm Drainage System				
	50 mm Ø, Pipe PVC	2.00	piece	₱	P
	75 mm Ø, Pipe PVC	2.00	piece		
	100mm Ø PVC Pipe	2.00	piece		
	100mm Ø x 50mm Ø, Wye	2.00	piece		
	50mm Ø, 1/8 Bend	4.00	piece		
	100mm Ø 1/8 Bend	2.00	piece		
	75mm Ø 1/4 Bend	2.00	piece		
	100mm Ø Cleanout	1.00	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Waterline				
	20mm Ø PPR Pipe	3.00	piece		
	20mm Ø Tee Equal	1.00	piece		
	20mm Ø 90 Deg Elbow	3.00	piece		
	20mm Ø Coupling	3.00	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1.00	can		
	All-Around Sealant	1.00	can		
	Hacksaw Blade	1.00	piece		
	Teflon Tape	1.00	roll		
	Waste Cloth	1.00	kg		
				Materials Cost D	₽
				Labor Cost D	
				Direct Cost D	₽
				Materials Cost II	₽
				Labor Cost II	
				Direct Cost II	₽
III	CONSTRUCTION OF HAND WASHING FACILITY				
Α	Site Works				
	Removal Works				_
	Removal of Ceiling	112.00	sq.m.	₽	₱
	Removal of Concrete Seat	1.00	sq.m.		
	Removal of Door	3.00	set		
	Removal of Lavatory	2.00	sq.m.		
	Removal of Tiles	93.00	sq.m.		
	Removal of Roofing and Accessories	125.00	sq.m.		
	Removal of Urinal	1.00	set		
	Removal of Window	12.00	sq.m.		
	Removal of Water Closet	2.00	set		
	Chipping of Floor (Plumbing and Electrical Works)	5.00	sq.m.		
	Clearing and Cleaning for Painting Preparation	165.00	sq.m.		
				Subtotal	₱
	Termite Treatment	4.00	gol	₽	P
	remine freatment	4.00	gal	Materials Cost	P
					Г
				Labor Cost	Ð
				Subtotal	P
				Materials Cost A	₽
				Labor Cost A	1
				Direct Cost A	₽
В	Civil/ Structural Works			Direct Cost A	1
	Masonry Works				
	Restoration of Concrete (Plumbing and Electrical	6.00	ea m	₽	₽
	Nestoration of Concrete (Flumbing and Electrical	6.00	sq.m.	Г	F

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Moisture Protection				
	Cementitious Capillary Type	1.00	sq.m.		
	Metal Works				
	Fence				
	50mmØ G.I. Pipe, sch. 40	153.00	kg		
	50mm x 50mm Wire Mesh	9.00	kg		
	Gate 1				
	50mmØ G.I. Pipe, sch. 40	208.00	kg		
	50mm x 50mm Wire Mesh	7.00	kg		
	Cylindrical Hinges, Heavy Duty	4.00	piece		
	38mmØ Barrel Bolt	1.00	set		
	38mmØ Foot Bolt	1.00	set		
	Miscellaneous & Consumables				
	Assorted Metal Drill Bit	5.00	piece		
	Cut Off Blade	2.00	piece		
	Grinding Disc for Metal	4.00	piece		
	Welding Rod	1.00	box		
	Roofing Works				
	Pre-painted G.I. Rib Type Roofing	132.00	sq.m.		
	Pre-painted G.I. End Flashing	54.00	sq.m.		
	Pre-painted G.I Ridgeroll	32.00	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	54.00	l.m.		
	6mm Thk One-sided Aluminum Foil Thermal	132.00	sq.m.		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Tekscrew	712.00	piece		
	Blind Rivets	320.00	piece		
	Silicon Sealant	5.00	tube		
				Materials Cost B	₱
				Labor Cost B	
				Direct Cost B	₽
С	Architectural Works				
	Floor Finishes				
	400mm x 400mm Non-Skid Homogeneous Floor	7.00	sq.m.	₱	₱
	600mm x 600mm Non-Skid Homogeneous Floor	59.00	sq.m.		
	Floor Topping For Preparation of Tiles Works	66.00	sq.m.		
	Wall Finishes				
	400mm x 400mm Homogenous Wall Tiles	31.00	sq.m.		
	Ceiling Finishes				
	6mm Thk Fiber Cement Board Including Metal	118.00	sq.m.		
	Fabricated Materials		· ·		
	Book Shelf (3.3m x 2m)	7.00	sq.m.		
	Countertop Cabinet	5.00	l.m.		
	Hanging Cabinet (2m x 1m)	2.00	sq.m.		
	Painting Works		·		
	Epoxy Enamel Paint Finish (Steel Surfaces)	24.00	sq.m.		
	Elastomeric Paint Finish (Exterior Walls)	71.00	sq.m.		
	Flat Latex Paint Finish		•		
	Interior Walls	86.00	sq.m.		
	Ceiling	118.00	sq.m.		
			- 1	Materials Cost	Ð
				Labor Cost	
				Subtotal	₽
	Painting Works			Juniotal	
	Cleaning and Re-Touching of Painting with Simple	133.00	sq.m.	₽	₽
		100.00	04	Subtotal Cost	P
	Installation of Doors			Cubicial Cool	
	D1 - (1.0m x 2.10m) Panel Door	1.00	set	₽	Ð
	D2- (0.80m x 2.10m) PVC Door with Louver	2.00	set		
	Door Jambs	2.00			
	D1 - Panel Door Wooden Jamb	1.00	set		
	Hardwares and Accessories	1.00	301		
	Door Hinges, Heavy Duty, Stainless	9.00	set		
	Door Knob, Lever Type, Stainless	3.00	set		
	Installation of Windows	5.00	361		
	W1 - (2.8m x 1.2m) Sliding Window Powder Coated	2.00	set		
	Aluminum Framed Window W2 - (1.2m x 1.2m) Sliding Window Powder Coated Aluminum Framed Window	1.00	set		
	W3 - (1.8m x 1.0m) Sliding Window Powder Coated Aluminum Framed Window	1.00	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	W4 - (0.5m x 0.6m) Awning Window Powder Coated Aluminum Framed Window	2.00	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Letterings				
	200mm Stainless Steel Lettering	24.00	set	₱	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost C	₱
				Labor Cost C	
				Direct Cost C	₱

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST		TOTAL COST
D	Sanitary/ Plumbing Works					
	Sewer Line / Storm Drainage System					
	Roughing-Ins					
	50 mm Ø, Pipe PVC	4.00	piece	₽	₽	
	75 mm Ø, Pipe PVC	2.00	piece			
	100mm Ø, Pipe PVC	4.00	piece			
	50mm Ø, P-Trap	4.00	piece			
	75mm Ø, P-Trap	2.00	piece			
	50mm Ø, 1/8 Bend	8.00	piece			
	75mm Ø, 1/8 Bend	2.00	piece			
	100mm Ø, 1/8 Bend	2.00	piece			
	75mm Ø, 1/4 Bend	2.00	piece			
	75mm Ø x 75mm Ø, Tee	2.00	piece			
	100mm Ø x 75mm Ø, Tee	2.00	piece			
	100mm Ø x 50mm Ø, Wye	6.00	piece			
	100mm Ø x 75mm Ø, Wye	2.00	piece			
	50mm Ø, Cleanout with Adapter	1.00	piece			
	100mm Ø, Cleanout with Adapter	1.00	piece			
	Waterline System	1.00	Picoc			
	Roughing-Ins					
	20mm Ø, Pipe PPR	2.00	piece			
	20mm Ø, Elbow	15.00	piece			
	20mm Ø, Coupling	2.00	piece			
	20mm Ø, Tee Equal	6.00	•			
	20mm Ø, Female Threaded, Tee		piece			
	·	6.00	piece			
	Valves and Appurtenances	0.00	-:			
	20mm Ø Gate Valve, PPR	2.00	piece			
	Fixtures					
	Bidet with Complete Accessories, Stainless (Water	2.00	set			
	Floor Drain, 100mm x 100mm Stainless Steel	2.00	set			
	Grease Trap, 5GPM, Stainless	1.00	set			
	Kitchen Sink Faucet Lever Type, Stainless (Water	1.00	set			
	Kitchen Sink, Single Tub, Stainless	1.00	set			
	Lavatory,Kiddie, Wall Hung	2.00	set			
	Lavatory Faucet Lever Type, Stainless (Water	2.00	set			
	Urinal, Kiddie, Flush Type (Water Efficient)	1.00	set			
	Water Closet (Kiddie), Tank Type w/ Accessories	2.00	set			
	Accessories					
	Angle Valve, Single-Way, Stainless	4.00	piece			
	Angle Valve, Two-Way, Stainless	2.00	piece			
	Flexible Hose, Stainless	6.00	piece			
	Miscellaneous & Consumables					
	400cc Solvent Cement	2.00	can			
	All-Around Sealant	1.00	can			
	Hacksaw Blade	2.00	piece			

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Teflon Tape	2.00	roll		
	Waste Cloth	1.00	kg		
				Materials Cost D	₱
				Labor Cost D	
				Direct Cost D	₱
Е	Electrical Works				
	Roughing-ins				
	20mmØ PVC Pipe	20.00	piece	₱	₱
	25mmØ PVC Pipe	5.00	piece		
	20mmØ PVC Flexible Hose	50.00	l.m.		
	16mm x 16mm x 2.44m Rectangular PVC Moulding	5.00	piece		
	Fittings and Accessories				
	20mmØ PVC Adaptor	50.00	piece		
	20mmØ PVC Locknut & Bushing	50.00	piece		
	50mm x 100mm PVC Utility Box	5.00	piece		
	100mm x 100mm PVC Junction Box with cover	20.00	piece		
	Wires and Cables				
	3.5mm² THHN Wire	160.00	l.m.		
	5.5mm² THHN Wire	40.00	l.m.		
	Lighting Fixtures (Energy Efficient)				
	18W LED Bulb	2.00	set		
	600mm x 1200mm, 2 x 18w LED, Troffer Type, w/complete accessories	6.00	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	E27 Receptacle	2.00	set		
	T8, 18w LED Tube light, Box type	4.00	set		
	Wiring Devices and Other Fixtures				
	Aircon Outlet, Multipurpose outlet 250V/20A	1.00	set		
	Orbit Fan with Selector Switch	4.00	set		
	Outlet with Grounding, Two Gang	3.00	set		
	Switch w/ plate & cover, Single Gang	2.00	set		
	Switch w/ plate & cover, Two Gang	1.00	set		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1.00	can		
	Electrical Tape	5.00	roll		
	Hacksaw Blade	2.00	piece		
	Torch with Butane	1.00	set		
				Materials Cost E	₱
				Labor Cost E	
				Direct Cost E	₱
				Materials Cost III	₱
				Labor Cost III	
				Direct Cost III	₱

ITEM NO	WORK DESCRIPTION AND	TOTAL COST	
I II	GENERAL REQUIREMENTS CONSTRUCTION OF HAND WASHING FACILITY REHABILITATION OF DAY CARE CENTER		₽
• NOT	E: Strictly enforce health protocols relative to the latest applicable DPWH memorandum	TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM) Profit VAT	
		TOTAL ESTIMATED COST	₽

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION

OF KNL - CDO DAY CARE CENTER

LOCATION : BARANGAY KRUS NA LIGAS, DISTRICT 4, QUEZON CITY

PROJECT NO. : 21 - 00171

SCOPE OF WORK:

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

- II CONSTRUCTION OF HAND WASHING FACILITY
- a Construction of Hand Washing Facility.
- b Sanitary / Plumbing Works include installation of roughing-ins.
- III REHABILITATION OF DAY CARE CENTER
- a Site Works include removal works and cleaning and clearing of painting preparation.
- b Civil / Structural Works include metal works.
- Architectural Works include floor finishes, wall finishes and partitions, installation of doors and windows, painting works and installation of fabricated materials
- d Sanitary / Plumbing Works include installation of roughing-ins, fixtures and accessories.
- e Electrical Works include installation of roughing-ins, wiring devices, fixtures and accessories.
- IV All necessary testing and commisioning 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)	21	sq.m.		
				DIRECT COST I	₱
II	CONSTRUCTION OF HAND WASHING FACILITY				
Α	Hand Washing Facility				
	Single Sink Portable Hand Washing Stall	1	unit	₱	₱
				Subtotal	₱
В	Sanitary / Plumbing Works				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	1	piece	₱	₱
	100 mm Ø, PVC Pipe with Hub	2	piece		
	50mm Ø, 1/8 Bend	1	piece		
	100mm Ø, 1/8 Bend	1	piece		
	100mm Ø x 50mm Ø, Wye	1	piece		
	Waterline System				
	Roughing-Ins				

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	20mm Ø, PPR Pipe	2	piece		
	20mm Ø, Elbow	3	piece		
	20mm Ø, Coupling	2	piece		
	20mm Ø, Female Adapter	1	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	roll		
	Waste Cloth	1	kg		
				Materials Cost	₽
				Labor Cost	
				Direct Cost	₽
				MATERIAL COST II	₱
				LABOR COST II	
				DIRECT COST II	₱

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
Ш	REHABILITATION OF DAY CARE CENTER				
Α	Site Works				
	Removal Works				
	Removal of Gate	4	sq.m.	₽	₱
	Removal of Doors	4	unit		
	Removal of Windows	6	sq.m.		
	Removal of Floor and Wall Tiles	45	sq.m.		
	Removal of Water Closet	1	set		
	Removal of Lavatory	1	set		
	Cleaning and Clearing for Painting Preparation	302	sq.m.		
				Material Cost A	₽
				Labor Cost A	
				Subtotal A	₽
В	Civil / Structural Works				
	Metal Works				
	Gate				
	38mm x 38mm x 4mm Tubular Bar	72	kg	₽	₽
	25mm x 4mm Flat Bar	40	kg		
	12mm Square Bar	65	kg		
	Barrel Bolt	2	set		
	Foot Bolt	2	set		
	Cylindrical Hinge, Heavy Duty, Stainless	3	piece		
	Miscellaneous		piooo		
	Acetylene Tank (Refill)	1	tank		
	Cut-Off Blade	5	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	2	tank		
		1	box		
	Welding Rod		DOX	Material Cost D	
				Material Cost B	₽
				Labor Cost B	
С	Architectural Works			Subtotal B	₽
	Floor Finishes				
				₽	₽
	Floor Topping for Preparation of Tiles	37	sq.m.	P	P
	300mm x 300mm Non-skid Homogeneous Floor Tiles	37	sq.m.		
	Wall Finishes and Partitions	40			
	300mm x 300mm Homogeneous Wall Tiles 6mm thk. Double Wall Fiber Cement Board including Metal	10	sq.m.		
	Framing	12	sq.m.		
	· ·			Material Cost	₽
				Labor Cost	
		1		Subtotal	₽
	Installation of Doors				
	Doors				
	D1-(2.10m x 0.90m) Wooden Panel Door	2	set	₽	₱

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	D2-(2.10m x 0.80m) Wooden Panel Door	1	set		
	D3-(2.10m x 0.60m) PVC Door with Louver	1	set		
	Door Jamb				
	D1-(2.10m x 0.90m) Wooden Panel Door	2	set		
	D2-(2.10m x 0.80m) Wooden Panel Door	1	set		
	Hardware and Accessories				
	Door Hinge, Heavy Duty, Stainless	12	piece		
	Door Knob, Lever Type, Stainless	4	piece		
	Installation of Windows				
	W1-(1.20m x 1.20m) Aluminum Frame Powder Coated	1	set		
	Window with 6mm thk. Clear Glass				
	W2-(2.00m x 0.50m) Aluminum Frame Powder Coated	1	set		
	Window with 6mm thk. Clear Glass				
	W3-(2.40m x 1.20m) Aluminum Frame Powder Coated	1	set		
	Window with 6mm thk. Clear Glass				
	W4-(0.60m x 0.40m) Aluminum Frame Powder Coated Awning Window with 6mm thk. Clear Glass	1	set		
				Material Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint (Exterior Wall)	160	sq.m	₱	₱
	Flat Latex Paint Finish				
	Drywall Partition	12	sq.m		
	Interior Wall	80	sq.m		
	Slab Soffit	51	sq.m		
	Epoxy Enamel Paint Finish (Steel Members)	19	sq.m		
	Fabricated Materials				
	Standing Cabinet	8	sq.m		
	Undercounter Cover (Aluminum)	5	l.m.		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Letterings				
	Stainless Steel Signage (180mm x 180mm)	19	set		
	"KNL - CDO DAY CARE CENTER"				
				Material Cost	₽
				Labor Cost	
				Subtotal	₱
				Material 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	2	piece	₽	₽
	75 mm Ø, PVC Pipe with Hub	4	piece		
	100mm Ø, PVC Pipe with Hub	3	piece		
	50mm Ø, P-Trap	2	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	3	piece		
	75mm Ø, 1/8 Bend	2	piece		
	100mm Ø, 1/8 Bend	2	piece		
	75mm Ø, 1/4 Bend	3	piece		
	75mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 50mm Ø, Wye	2	piece		
	100mm Ø x 75mm Ø, Wye	2	piece		
	100mm Ø x 100mm Ø, Wye	3	piece		
	100mm Ø x 50mm Ø, Tee Reducer	1	piece		
	100mm Ø, Cleanout with Adapter	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, PPR Pipe	2	piece		
	20mm Ø, Elbow	7	piece		
	20mm Ø, Coupling	2	piece		
	20mm Ø, Tee Equal	1	piece		
	20mm Ø, Female Threaded, Tee	2	piece		
	20mm Ø, Female Adapter	1	piece		
	25mm Ø x 20mm Ø, Reducer	1	piece		
	25mm Ø, Union Patente	1	piece		
	Valves and Appurtenances				
	20mm Ø Gate Valve, PPR	1	piece		
	Fixtures				
	Bidet with Complete Accessories, (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm, Stainless	1	set		
	Grease Trap, 5GPM, Stainless, Heavy Duty	1	set		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Kitchen Faucet Lever Type, Stainless (Water Efficient)	1	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Lavatory, Wall-Hung, Kiddy	1	set		
	Lavatory Faucet, Lever Type, Stainless (Water Efficient)	1	set		
	Water Closet, Tank Type w/ Accessories, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single-Way, Stainless	2	piece		
	Angle Valve, Two-Way, Stainless	1	piece		
	Flexible Hose, Stainless	3	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	2	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	1	roll		
	Waste Cloth	1	kg		
				Materials Cost D	₱
				Labor Cost D	
				Direct Cost D	₱
Е	Electrical Works				
	Lighting and Power System				
	Roughing-ins				
	15mmØ IMC Pipe	3	piece	₽	₱
	100mm x 100mm Metal Junction Box with cover	1	piece		
	Fittings & Accessories				
	15mmØ IMC Coupling	4	piece		
	15mmØ IMC Locknut and Bushing	4	piece		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Wires and Cables				
	3.5mm² THHN Wire	20	lm		
	2.0mm² TW Wire (Green)	10	lm		
	Lighting Fixtures (Energy Efficient)				
	14w LED Light Bulb	2	piece		
	100mmØ Plastic Receptacle	2	piece		
	1 x 18 LED,300mmx1200mm Troffer Fixture, Surface Mounte	3	unit		
	2 x 18 LED,600mmx1200mm Troffer Fixture, Surface Mounte	6	unit		
	Wiring Devices				
	Ventilating Fan				
	EF 1 - Wall Mounted Ventilation Fan	1	piece		
	100 cfm / 15 w / 230 V / 1 ф				
	Orbit Fan with Selector Switch	1	unit		
	Outlet with Grounding , One-gang, for ACU, Heavy Duty	1	piece		
	Outlet with Gounding , Two-gang	3	piece		
	Miscellaneous & Consumables				
	Electrical Tape	5	piece		
	Hacksaw Blade	2	piece		
	Masking Tape	5	piece		
				Materials Cost E	₱
				Labor Cost E	
				Direct Cost E	₱
			ı	MATERIAL COST III	₽
				LABOR COST III	
				DIRECT COST III	₱

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	TOTAL COST
- = ≡	GENERAL REQUIREMENTS CONSTRUCTION OF HAND WASHING FACILITY REHABILITATION OF DAY CARE CENTER	₽
	TOTAL DIRECT COST y enforce Health Protocols relative to the lates verhead, Contingencies and Miscellaneous Expenses (OCM) ble DPWH Memorandum. PROFIT VAT TOTAL ESTIMATED COST	

BILL OF QUANTITIES (Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF PINYAHAN DAY CARE CENTER

LOCATION : BARANGAY PINYAHAN, DISTRICT 4, QUEZON CITY

PROJECT NO. : 21 - 00171

SCOPE OF WORKS:

- General Requirements include billboard, clearing, hauling and disposal of construction materials and debris, construction safety and health equipment, scaffolding, and temporary enclosure
- II Site Works include demolition / removal works and cleaning and clearing for painting preparation
- III Civil/Structural Works include waterproofing works, and roofing works
- Architectural Works include floor finishes, wall finishes, ceiling finishes, installation of doors and windows, painting works and stainless letterings
- V Sanitary and Plumbing Works include installation of roughing-ins, fixtures and accessories
- VI Electrical Works include installation of roughing-ins, wirings, lighting fixtures, and wiring devices
- VII All necessary testing of materials and commissioning works must be performed as per standard procedures.

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
ı	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	₽
	Clearing, Hauling and Disposal of Construction Materials and Debris	2	t.l.		
	Construction Safety and Health Equipment	1	unit		
	Scaffolding (Rental)	59	sq.m.		
	Temporary Enclosure around the Construction Area (H=2.4m)	39	l.m.		
				Direct Cost I	P
II	SITE WORKS				
	Demolition / Removal Works				
	Removal of Floor and Wall Tiles	150	sq.m.	P	P
	Removal of Ceiling	145	sq.m.		
	Removal of Roofing	9	sq.m.		
	Removal of Door	7	set		
	Removal of Window	9	sq.m.		
	Removal of Water Closet	1	set		
	Removal of Urinal	1	set		
	Cleaning and Clearing for Painting Preparation	705	sq.m.		
				Direct Cost II	P
Ш	CIVIL/STRUCTURAL WORKS				
	Thermal and Waterproofing Works				
	Cementitious Capillary-type Waterproofing (Toilet)	3	sq.m.	P	P
	Roofing Works				
	Pre-painted Rib-type GI Roofing	9	sq.m.		
	Pre-painted GI Flashing	10	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	40	l.m.		
	Tekscrew	68	piece		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Silicon Sealant	3	tube		
				Materials Cost III	L
				Labor Cost III	
				Direct Cost III	P

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping for Preparation of Tiles				
	Daycare Center	71	sq.m.	P	P
	Waiting Area	38	sq.m.		
	Toilet	3	sq.m.		
	Stairs	17	sq.m.		
	300mm x 300mm Non-skid Homogeneous Floor Tiles				
	Toilet	3	sq.m.		
	Stairs	17	sq.m.		
	600mm x 600mm Non-skid Homogeneous Floor Tiles				
	Daycare Center	71	sq.m.		
	Waiting Area	38	sq.m.		
	Wall Finishes		- 4		
	300mm x 300mm Homogeneous Wall Tiles				
	Toilet	11	sq.m.		
	Counter Top	10	sq.m.		
	Ceiling Finishes	10	oq.iii.		
	6mm thick Fiber Cement Board including Metal Framing	146	sq.m.		
	Shiff thek riber dement board including wetair raining	140	34.111.	Materials Cost	P
				Labor Cost	
				Subtotal	P
	Installation of Doors			Subtotal	
	Doors				
	7.7.7	4		P	P
	D1 - 0.8m x 2.1m Wooden Panel Door	4	unit	 *	<u> </u>
	D2 - 0.7m x 2.1m Wooden Flush Door	2	unit		
	D3 - 0.6m x 2.1m PVC Door with Louver	1	unit		
	Door Jambs	4			
	D1 - 0.8m x 2.1m Wooden Door Jamb	4	unit		
	D2 - 0.7m x 2.1m Wooden Door Jamb	2	unit		
	Hardwares and Accessories		_		
	Door Knob, Lever-type, Heavy Duty, Stainless	7	unit		
	Door Hinge, Heavy Duty, Stainless	21	unit		
	Installation of Windows				
	W1 - 0.7m x 1.2m Jalousie Window on Powder Coated Aluminum Frame	2	unit		
	W2 - 0.6m x 0.6m Jalousie Window on Powder Coated Aluminum Frame	1	unit		
	W3 - 1.2m x 0.6m Jalousie Window on Powder Coated	2	unit		
	Aluminum Frame		I WITH		
	W4 - 2.4m x 0.6m Jalousie Window on Powder Coated	2	unit		
	Aluminum Frame		unit		
	Auminum rame			Materials Cost	D
				Labor Cost	
					D
				Subtotal	۲

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Painting Works				
	Elastomeric Paint Finish (Exterior Wall)	201	sq.m.	P	P
	Flat Latex Paint Finish (Interior Wall)				
	Interior Wall	354	sq.m.		
	Ceiling	146	sq.m.		
	Epoxy Enamel Paint Finish				
	Door Grilles and Gate	8	sq.m.		
	Window Grilles	23	sq.m.		
	Stair and Balcony Railings	34	sq.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Letterings				
	200mm x 250mm Stainless Steel Lettering	26	set		
	"PINYAHAN YAKAP DAYCARE CENTER"				
				Materials Cost	P
				Labor Cost	
				Subtotal	P
				Materials Cost IV	P
				Labor Cost IV	
				Direct Cost IV	P
٧	SANITARY & PLUMBING WORKS				
	Sewer Line System				
	50mm Ø PVC Pipe with Hub	1	piece	P	P
	75mm Ø PVC Pipe with Hub	1	piece		
	75mm Ø x 75mm Ø PVC Wye	1	piece		
	50mm Ø x 50mm Ø PVC 1/4 Bend	1	piece		
	75mm Ø x 75mm Ø PVC 1/4 Bend	1	piece		
	75mm Ø x 75mm Ø PVC 1/8 Bend	1	piece		
	50mm Ø PVC P-Trap	1	piece		
	50mm Ø PVC Coupling	1	piece		
	75mm Ø PVC Coupling	1	piece		
	Water Line System				
	20mm Ø PPR Pipe, PN 16	1	piece		
	20mm Ø PPR 90° Elbow	2	piece		
	20mm Ø PPR Female Threaded Adaptor	2	piece		
	20mm Ø PPR Coupling	1	piece		
	Fixtures				
	Bidet with Accessories, Stainless Heavy Duty (Water Efficient)	1	piece		
	Floor Drain, 100mm x 100mm, Stainless	3	piece		
	Hose Bibb, Lever-type, Stainless (Water Efficient)	16	unit		
	Kitchen Sink, Single Tub, Stainless	1	unit		
	Urinal, Bucket-type (Water Efficient)	1	unit		
	Water Closet, Tank Type (Water Efficient)	1	unit		
	Accessories				
	Angle Valve, One-way, Stainless Steel	1	piece		
	Angle Valve, Two-way, Stainless Steel	1	piece		
	Flexible Hose, Stainless Steel	2	piece		
	Miscellaneous and Consumables				
	400cc Solvent Cement	3	can		
	All Around Sealant	2	can		
	Hacksaw Blade	5	piece		
	Teflon Tape	10	roll		
	Waste Cloth	2	kg		
				Materials Cost V	P
				Labor Cost V	

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Direct Cost V	P
VI	ELECTRICAL WORKS				
	Pipes and Fittings				
	20mm Ø PVC Pipe	45	piece	P	P
	20mm Ø PVC Adaptor	100	piece		
	20mm Ø PVC Locknut & Bushing	100	pair		
	50mm x 100mm PVC Utility Box	25	piece		
	100mm x 100mm PVC Junction Box with Cover	25	piece		
	Wires and Cables				
	3.5mm² THHN Wire	3	roll		
	3.5mm² TW Wire	2	roll		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Lighting Fixtures (Energy Efficient)				
	600mm x 1200mm, 2 x 18w LED, Troffer, Recessed Type	9	set		
	with Complete Accessories				
	300mm x 1200mm, 1 x 18w LED, Troffer, Recessed Type	2	set		
	with Complete Accessories				
	18W LED Bulb with Receptacle	3	piece		
	T5, 28W LED Tube Light	6	piece		
	Wiring Devices				
	Orbit Fan, Heavy Duty With Selector Switch	4	piece		
	Convenience Outlet with Ground, Two-gang with Weatherproof	8	piece		
	Switch with Plate & Cover, One-Gang	3	piece		
	Switch with Plate & Cover, Two-Gang	2	piece		
	Switch Only, Three Way	10	piece		
	Switch Plate and Cover Only, One-Gang	4	piece		
	Switch Plate and Cover Only, Three-Gang	2	piece		
	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	20	l.m.		
	Miscellaneous & Consumables				
	400cc Solvent Cement	3	can		
	All around Sealant	3	can		
	Electrical Tape	10	roll		
	GI Tie Wire, Ga. 16 (for wire/cable pulling)	1	kg		
	Hacksaw Blade	5	piece		
	Masking Tape	5	piece		
	Rubber Tape	5	roll		
				Material Cost VI	P
				Labor Cost VI	
				Direct Cost VI	P

SUMMARY

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	AMOUNT
1	GENERAL REQUIREMENTS	P
II III	SITE WORKS CIVIL/STRUCTURAL WORKS	
IV V	ARCHITECTURAL WORKS SANITARY & PLUMBING WORKS	
۷I	ELECTRICAL WORKS	
Note:	TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous Expenses (OCM)	

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS			UNIT	UNIT COST	TOTAL COST
Striclly	y enforce health protocols relative to the	-		-	Profit	
latest	applicable DPWH Memorandum				VAT	
				TOTAL	ESTIMATED COST	₽

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Leg	al Do	<u>cuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	(b)	and Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
	(c)	and Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; and
	(e)	Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
Tec	chnica	l Documents
	(f)	Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy); and
	(g)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy); and
	(h)	Philippine Contractors Accreditation Board (PCAB) License; or Special PCAB License in case of Joint Ventures;
	(i)	 <u>and</u> registration for the type and cost of the contract to be bid; <u>and</u> Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
	(j)	or Original copy of Notarized Bid Securing Declaration; and Project Requirements, which shall include the following: a. Organizational chart for the contract to be bid;
		b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy);
		c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment

see attached prescribed form required by the QC - BAC for Infrastructure and Consultancy); and Original duly signed Omnibus Sworn Statement (OSS); \sqcap (k) and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder. Additional Technical Requirements: Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement • Affidavit of Undertaking for Key Personnel and Equipment (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy) ■ • Equipment Utilization Schedule Manpower Schedule Construction Schedule and S-Curve □ • PERT-CMP ☐ • Construction Methods Financial Documents (1) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and The prospective bidder's computation of Net Financial Contracting Capacity П (m) (NFCC) (please see attached prescribed form required by the QC – BAC for *Infrastructure and Consultancy*). Class "B" Documents If applicable, duly signed joint venture agreement (JVA) in accordance with \square (n) RA No. 4566 and its IRR in case the joint venture is already in existence; or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful. II. FINANCIAL COMPONENT ENVELOPE (o) Original of duly signed and accomplished Financial Bid Form; and Other documentary requirements under RA No. 9184 Original of duly signed Bid Prices in the Bill of Quantities; and П (p) (q) Duly accomplished Detailed Estimates Form, including a summary shee

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

rentals used in coming up with the Bid; and

Cash Flow by Quarter.

(r)

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

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM	
Date : Project Identification No. :	

To: [name and address of Procuring Entity]

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

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

currently based on GPPB Resolution No. 09-2020

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

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

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

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

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

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

[Jurat]

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

AFFIDAVIT

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

1. [Select one, delete the other:]

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

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

2. [Select one, delete the other:]

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

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

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. [Select one, delete the rest:]

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

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

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

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

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

N WITNESS WHEREOF, I have hereunto set my hand this _	_ day of	20	_ at
, Philippines.			

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

[Jurat]

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

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

CONTRACT AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

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

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

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

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

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

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

for:

for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

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)	
) 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 for the second offense, 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
 - 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]

NAME OF CONTRACTOR:	

PROJECT TIFLE		9220-22292	100000000000000000000000000000000000000	PROFESSOR SUPCONTACTOR TO TAKE DIGITS OF		TOTAL	PERCE	NTAGE			
[Name of the Contract] & EXACT PROJECT LOCATION	DATE OF CONTRACT	DURATION	CONTRACT PROJECT GWINER & MATURE OF WORK	INTERESTRATO CONT and PERCENTAGE OF VALUE	VALUE AT	COMPLETION OF ESTIMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPUSHMENT	PLANNED ACCOMPUSHMENT	VALUE OF OUTSTANDING WORKS (IN PHP)	
									TOTAL AMOUNT OUTSTANDING V		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page of

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

OF CONTRACT (Php)

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page___of___

NAME OF CONTRACTOR: PROJECT TITLE:

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

	4	
Page	4.04	
- W. B. W.		

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:		
DDOISCT TITLE		
PROJECT TITLE:		

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

Page	100	
1 once	OI.	

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

NAME OF CONTRACTOR:			
PROJECT TITLE:			

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

Page	of	
F HELD	474	

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

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

)	S. S.					
			AFFI	DAVIT OF	UNDI	ERTA	KING		
2012/2013	1,			of	legal	age,	Filipino,	[OFFICER	OF
REPR	ESENTA	TIVE)					1000 F2 10 10 F2		
with c	office add	ress at							after
having	been du	ly sworn	to in accord	ance with law,	hereby	volum	atary depose ar	nd state:	
	That I a	am duly aking as	authorized i evidenced by	epresentative Secretary's C	of the ertifica	[Nam te and	e of Bidder Board Resolut	to execut	e this
	That _	[Name	of Bidder	_bidding for	he (Na	me of I	Project)		
	that the	equipm	ent to be use	tioned Project and the key pe project until it	ersonne	l to be	assign shall ex	_hereby undertal clusively be used	ke and
	That I a	m execut	ing this affic	lavit to attest technical require	o the tri	uth of t	the foregoing a public bidding	and in compliance g of the said proje	ect.
of	IN WE	INESS 1	HEREOF, I	have hereum	o sign	ed my	y name belov	w this	day
	AFFIAN	T FURT	HER SAYET	H NAUGHT.					
					-		Affiant		
	SUBSC	RIBED A	ND SWOR	N TO BEFORE	ME th	is	day of		77
		in					-		
affiant	exhibit	ing to	me his/h on	er				issued	at
Doc. No									
Page N	10.1								
Book N	70.00								
eries o	f 2020								

Notary Public

