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 5 AREA VIII (CLUSTER 3)

Project number: 22-00002B

Sixth Edition July 2020

Preface

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

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

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

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

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

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

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

TABLE OF CONTENTS

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

| Warranty | 23 |
|--------------------------------------|--|
| Liability of the Contractor | 23 |
| Termination for Other Causes | 23 |
| Dayworks | 23 |
| Program of Work | 24 |
| Instructions, Inspections and Audits | 24 |
| Advance Payment | 24 |
| Progress Payments | 24 |
| Operating and Maintenance Manuals | 24 |
| V. Special Conditions of Contract | 26 |
| VI. Specifications | 28 |
| - | |
| _ | |
| | |
| | Warranty Liability of the Contractor Termination for Other Causes Dayworks Program of Work Instructions, Inspections and Audits Advance Payment Progress Payments Operating and Maintenance Manuals V. Special Conditions of Contract VI. Specifications VII. Drawings 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



BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE & CONSULTANCY

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

February 17, 2022

Invitation to Bid

| No - | Project No. | Project Name | Location | Amount | Durati on Cal. Days | Office | Source Fund |
|------|----------------|--|----------------------------|---------------|---------------------------|---------------------------|---|
| Ви | ildings - | - Small B | | | | | |
| 1 | 22- 00002B | Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 5 / Area VIII (Cluster 3) | Kailigayahan , Fairview | 4,390,415.05 | 60 | Engineering Department | Engineering Department- Continuing Appropriation |
| 2 | 22- 00036 | Proposed Rehabilitation of Comfort Rooms (DepEd Building B) at Goodwill Elementary School | Bagbag | 1,502,623.78 | 60 | Engineering Department | Special Education Fund |
| 3 | 22- 00037 | Proposed Construction of Perimeter Fence and Rehabilitation of Gates and Guard House at Bistekville 1 at Barangay Payatas | Payatas | 1,990,571.27 | 90 | Engineering Department | Engineering Department- Continuing Appropriation |
| 4 | 22- 00038 | Proposed Rehabilitation of 6th Floor and Upper Deck Ceiling and Waterproofing of Roof deck at Civic Building F at Quezon City Hall Compound | Central | 5,864,452.20 | 90 | Engineering Department | Engineering Department |
| 5 | 22- 00039 | Proposed Construction of Waiting Sheds for Various Quezon City Bus Stops (Quezon City Hall Bus Augmentation Program) | Various Barangays | 7,125,752.82 | 180 | Engineering Department | Engineering Department- Continuing Appropriation |
| 6 | 22- 00040 | Proposed Construction of Three (3) storey Multi- Purpose Building at Barangay Manresa | Manresa | 9,702,527.91 | 180 | Engineering Department | Engineering Department |
| 7 | 22- 00041 | Proposed Renovation of Office of the City Mayor, Third Floor Main Building, QC Hall Compound at Barangay Central | Central | 13,510,259.60 | 180 | Engineering Department | Engineering Department |
| 8 | 22- 00042 | Proposed Construction of Three (3) storey Multi- Purpose Building at Barangay Vasra | Vasra | 17,261,582.72 | 210 | Engineering Department | OCM-20% CDF |
| 9 | 22- 00043 | Proposed Construction of Three (3) storey with Roof Deck Multi-Purpose Building at Barangay Bagumbayan | Bagumbayan | 23,868,555,52 | 270 | Engineering Department | OCM-20% CDF |
| 10 | 22- 00044 | Proposed Construction of Multi-Purpose Building (at Madjaas Street) at Barangay Payatas B (Phase 2) | Payatas | 27,173,801.07 | 210 | Engineering Department | OCM-20% CDF |

| 11 | 22- 00045 | Proposed Construction of Four (4) storey with Deck Quezon City Schools Division Office Multi- Purpose Building at Barangay Sto. Cristo | Sto. Cristo | 50,395,670.16 | 330 | Engineering Department | OCM-20% CDF |
|-----|--------------|---|--------------------|----------------|-----|--|--|
| 12 | 22- 00046 | Proposed Construction of Four (4) storey with Roof Deck Barangay Hall at Barangay Greater Lagro | Greater Lagro | 59,282,536.60 | 360 | Engineering Department | Engineering Department |
| 13 | 22- 00047 | Proposed Construction of four (4) storey Multi- Purpose Building (Evacuation Center, Offices and Volleyball Court) at Barangay Sta. Lucia | Sta. Lucia | 76,318,551.21 | 330 | Engineering Department | OCM-20% CDF |
| 14 | 22- 00048 | Proposed Construction of Housing No. 17 (Wright Park) Phase 1 | Bagong Silangan | 106,575,757.08 | 360 | Engineering Department | Housing Community Development Resettlement Dept. |
| Flo | od Con | trol – Small B | | | | | |
| 15 | 22- 00049 | Proposed Construction of Reinforced Concrete Canal at Sampaguita Creek (Sitio Pugot) in Barangay Payatas | Payatas | 26,207,918.10 | 210 | Engineering Department | OCM-20% CDF |
| 16 | 22- 00050 | Proposed Construction of Reinforced Concrete Canal at Creek (Pocalari Compound) | Bagong Silangan | 47,192,576.14 | 270 | Engineering Department | OCM-20% CDF |
| Pai | rks – Sn | nall B | | | | | |
| 17 | 22- 00051 | Proposed Improvement of Blue Ridge B Park at Comets Loop Street | Blue Ridge B | 6,221,182.85 | 135 | Parks Development & Admin. Dept. | Engineering Department |
| 18 | 22- 00052 | Proposed Improvement of North Olympus Park at Bethel Street, North Olympus Subdivision | Kaligayahan | 7,232,959.22 | 135 | Parks Development & Admin. Dept. | Engineering Department |
| 19 | 22- 00053 | Proposed Improvement of Tandang Sora Shrine at Banlat Road | Tandang Sora | 23,499,139.15 | 300 | Parks Development & Admin, Dept. | Engineering Department |
| Ro | ads – Sr | nall B | | | | | |
| 20 | 22- 00054 | Proposed Rehabilitation of Drainage at Children's Museum and Library, Inc. (CMLI) and Nego-Eskwela Compound in Barangay Project 6 | Project 6 | 2,424,449.10 | 90 | Engineering Dept. | OCM-20% CDF |
| 21 | 22- 00055 | Proposed Rehabilitation (Surface Improvement) of Champaca Street | Sauyo | 3,337,874.58 | 30 | Engineering Dept. | OCM-20% CDF |

| 22 | 22- 00056 | Proposed Rehabilitation of Road and Drainage at Namappa Block 3 HOA | Batasan Hills | 3,721,205.18 | 90 | Engineering Dept. | OCM-20% CDF |
|----|--------------|---|------------------|--------------|----|----------------------|----------------|
|----|--------------|---|------------------|--------------|----|----------------------|----------------|

- The QUEZON CITY LOCAL GOVERNMENT, through funding source of various years
 intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to
 payments under the contract for the above stated Projects. Bids received in excess of the ABC
 shall be automatically rejected at bid opening.
- The QUEZON CITY LOCAL GOVERNMENT now invites bids for the above Procurement Project. Completion of the Works is required as stated above. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- Bidding will be conducted through open competitive bidding procedures using nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. – 5:00 p.m.
- 5. A complete set of Bidding Documents may be acquired by interested bidders on 18 February 2022 (Friday) from given address and website/s below and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.

STANDARD RATES:

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

The following are the requirements for purchase of Bidding Documents;

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

It must be duly received by the BAC Secretariat at 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound on or before February 28, 2022 - 5:00PM.

 The QC-BAC-INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference¹ on February 28, 2022 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) which shall be open to prospective bidders.

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

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

- Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before March 16, 2022 – 9:00AM. Late bids shall not be accepted.
- All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
- Bid opening shall be on March 16, 2022 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

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

ATTY, DOMINIC B. GARCIA

OIC, Procurement Department 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound Elliptical Road, Barangay Central Diliman, Quezon City. Tel. No. (02)8988-4242 loc. 8506/8710 Email Add: bacinfra.procurement@quezoncity.gov.ph

Website: www.quezoncity.gov.ph

12. You may visit the following websites:

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

By:

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

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED CONSTRUCTION OF HANDWASHING FACILITY AND REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 AREA VIII (CLUSTER 3), with Project Identification Number 22-00002B.

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

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

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for 2022 in the amount of Four Million Three Hundred Ninety Thousand Four Hundred Fifteen Pesos & 05/100 Ctvs. (P 4,390,415.05).
- 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 February 28, 2022, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

15. Bid Security

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

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

| ITB Clause | | | | | | |
|------------|---|---|--------------------------------------|--------------------------|--|--|
| 5.2 | For this purpose, similar contracts shall refer to contracts which have the same major categories of work. | | | | | |
| 7.1 | Subcontracting is not allowed. | | | | | |
| 10.3 | No additional contractor license or permit is required In addition, eligible bidders shall qualify or comply with the following: | | | | | |
| | 1. Bidd | lers with valid Philipp | ine Contractors Accred | itation Board (PCAB) | | |
| | Тур | e | | | | |
| | F | Building - Small B | | | | |
| 10.4 | The m followi | <u>-</u> | rience requirements for | or key personnel are the | | |
| | PRO | POSED REHABILI | TATION OF BISTEI CENTER | KVILLE II DAY CARE | | |
| | Qnty. | Key Personnel | General Experience | Relevant Experience | | |
| | 1 | Project Engineer | 3 years | 3 years | | |
| | 1 | DPWH duly accredite Materials Engineer | ed 3 years | 3 years | | |
| | 1 | Safety Officer | 3 years | 3 years | | |
| | 1 | Foreman | 3 years | 3 years | | |
| | 6 | Skilled Worker | 3 years | 3 years | | |
| | 1 | Driver | 3 years | 3 years | | |
| | 13 | Laborer | 1 year | 3 months | | |
| | PR | | LITATION OF SAPA ER AT SECOND FLO | MANAI DAY CARE OOR | | |
| | Qnty. | Key Personnel | General Experience | Relevant Experience | | |
| | 1 | Project Engineer | 3 years | 3 years | | |
| | | | | | | |

| 1 | DPWH duly accredite Materials Engineer | d 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 |
| 0 | Laborer | 1 year | 3 months |
| PRO | POSED CONSTRUCT REHABILITATION | | SHING FACILITY AND Y CARE CENTER |
| Qnty. | Key Personnel | General Experience | Relevant Experience |
| 1 | Project Engineer | 3 years | 3 years |
| 1 | DPWH duly accredite Materials Engineer | d 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 |
| 11 | Laborer | 1 year | 3 months |
| PI | ROPOSED REHABIL | ITATION OF SITIO CENTER | KISLAP DAY CARE |
| Qnty. | Key Personnel | General Experience | Relevant Experience |
| 1 | Project Engineer | 3 years | 3 years |
| 1 | DPWH duly accredite Materials Engineer | d 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 | | |
|------|---|--|--|--|--|
| | 8 Laborer | 1 year | 3 months | | |
| | In addition, the bidder in notarized stating that the for for the project until its com | oregoing personnel shall personnel shall personnel shall person. Please see attack | perform work exclusive ned bid forms. | | |
| 10.5 | The minimum major equipr | ment requirements are the | following: | | |
| | PROPOSED REHABIL | ITATION OF BISTEK CENTER | VILLE II DAY CARE | | |
| | Equipment | Capacity | Number of Units | | |
| | Bar Cutter Elf Truck Welding Machine | | 1 1 1 | | |
| | Power Tools Minor Tools Cut-Off Machine | | as needed as needed as needed | | |
| | PROPOSED REHABILITATION OF SAPAMANAI DAY CARE CENTER AT SECOND FLOOR | | | | |
| | Equipment | Capacity | Number of Units | | |
| | Elf Truck Scaffolding Power Tools Minor Tools Cut-Off Machine | | as needed as needed as needed as needed | | |
| | PROPOSED CONSTRUC REHABILITATIO | CTION OF HAND WAS N OF FAIRVIEW DAY | | | |
| | Equipment | Capacity | Number of Units | | |
| | Elf Truck Scaffolding Power Tools Minor Tools Cut-Off Machine | | as needed as needed as needed as needed | | |

| | PROPOSED REHABILITATION OF SITIO KISLAP DAY CARE CENTER | | | |
|------|---|---|-----------------------------|--|
| | Equipment | Capacity | Number of Units | |
| | Elf Truck Scaffolding | | 1 as needed | |
| | Power Tools | | as needed | |
| | Minor Tools | | as needed | |
| | notarized stating that th | r must execute an affidav e foregoing equipment shal pletion. Please see attached l | l be used exclusively for | |
| 12 | [Insert Value Engineerin | g clause if allowed.] | | |
| 15.1 | 1 | in the form of a Bid Securing lowing forms and amounts: | g Declaration with project | |
| | a) The amount of not less than Php 87,808.30 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or | | | |
| | | not less than Php 219,520.7 ABC if bid security is in Sure | = | |
| 19.2 | Partial bid is not allowe | d. The infrastructure project e divided into sub-lots for | is packaged in a single lot | |
| 20 | No additional requirement | | | |
| 21 | Additional Contract Do 1. Construction Schedu | ocuments relevant to the Prole and S-curve, | oject as required: | |
| | 2. Manpower Schedule, | | | |
| | 3. Construction Method | , | | |
| | 4. Equipment Utilizatio 5. PERT/CPM or othe | n Scneaule, er acceptable tools of proje | ect scheduling shall he | |
| | | ion of Technical Proposal. | or seneading, sidii be | |

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 Ouezon City

CITY ENGINEERING DEPARTMENT



Civic Center Building B. Quezon City Hall Compound, Elliptical Road Dilimen, Central 1300 Quezon City Trunk line: 463 2 8988 4242

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF BISTERVILLE II DAYCARE

CENTER

LOCATION: BARANGAY KALIGAYAHAN, DISTRICT 5, 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 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 menner 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 Demonitization (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.
 - ri. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not enymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- 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.
- 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 mainteined 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, radings and proper signages.
- Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period
- Upon completion of the work, the temporary facilities shall be demolished. hauled-out and disposed property.
- Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties
 - ii. The medical room shall be provided in waterproof, it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 - The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
 - Additional safety precautions shall be provided in the observance of pandemic Protocols set-forth by the government shall be strictly followed
- Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents
- m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

- A. All grades, lines, levets and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B. Removal / demolstion of existing structures shall be done in accordance to safety procedures
- C. All excevations shall be made to grade as indicated in the plans. Whenever water is encountered in the excevation process, it shall be removed by pumping, care being taken that the suncounding soil particles are not disturbed or removed.

III. CIVIL / STRUCTURAL WORKS

A. MASONRY

- Masonry Units (CHB):
 - i. 103mm thick for all interior walls and 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 walts 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 decimed required to assure a stabilized wall due to height & other considerations.

b. Sand.

S-1 washed, clean and greenish in color.

c. Mortar:

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

d Plaster bond:

Apply plaster bond to alt wall area

B. WATERPROOFING

a. Waterproofing:

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

b Testing:

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

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

IV. ARCHITECTURAL WORKS

A. TILE WORKS

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

8. PROVISION OF CABINET

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

Ç. FABRICATED DOORS & WINDOWS

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

D. PAINTING WORKS

- All primers, thansers 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 covening requisite for protection of floors, walls, aluminum, glass, finishes and other works.

- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- Q. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes ordinances and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- 8 Supply, installation and testing of the following:
 - 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 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.
 - 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 simited to connection to existing storm drainage, submittals, shop drawings pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes
- G In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided
- H. Where the Contractor proposes to use an item of equipment other then that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- I Equipment catalogue and manufacturer's specifications must be submitted for examination and dateils 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 end accessories shall be delivered to the Site in a new condition, properly packed and protected against demage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- Any items suffering from damage during manufacture, or in transit, or on site whitst instorage 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 debns.
- 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 satisfactority within the requirements of this Specification and local regulations.
- O. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R 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 fanishes 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 retested at the appropriate test pressure.
- The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U Drainage pipe shall be tested by filling the pipe with 3m, of water higher than the test section and wait for 15 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 affects 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 steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers. NPS 2-1/2 (DN 55) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed, faster inserts to forms and install reinforcing bars through openings at top of inserts.

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

F PANELBOARDS

- F.1 Fabricate and test panelboards according to IEEE 344 to withstand salamic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Flactrical Systems" respectively
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - F.2.1 Rated for environmental conditions at installed location.
 - Indoor Ory and Clean Locations: NEMA 250, Type 1.
 - ii. Outdoor Locations: NEMA 250, Type 3R.
 - Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stanless, steet.
 - Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
 - indoor Locations Subject to Dust, Falling Det, and Dripping.
 Noncompsive Liquids: NEMA 250, Type 5 or Type 12
 - F.2.2 Front. Secured to box with concealed frim clamps. For surface-mounted fronts, match box dimensions, for flush-mounted fronts, overlap box.
 - F.2.3 Hinged Front Cover. Entire front frim hinged to box and with standard door within hinged trim cover.
 - F 2.4 Skirt for Surface-Mounted Panetboards: Same gage and finish as panetboard front with flanges for attachment to panetboard, wall and ceiling or floor.
 - F.2.5 Gutter Extension and Barrier. Same gage and finish as parielboard enclosure; integral with enclosure today. Arrange to isolate individual panel sactions.

- F.2.6 Finshes:
 - Panels and Trim: Steel and gatvanized steel, factory finished immediately after cleaning and prefreating with manufacturer's standard two-cost, baked-on finish consisting of prime cost and thermoselling topcost
 - Back Boxes: Galvanized steel Same finish as penels and frm.
 - Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components
- F 2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent profective 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.

MICAÑ A. VERANO Planning and Programming Division VAW JOCKLYN A. NAONG Planning and Programming Division



Republic of the Philippines Quezon City

CITY ENGINEERING DEPARTMENT

Chris Genner Building & Queston City Hall Compound, Elliptical Road
Dill men, Central 1100 Queston City
Trunkling: +69 2 8988 4242



TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED CONSTLICTION OF HANDWASHING FACILITY AND REHABILITATION

OF FAIRVIEW DAYCARE CENTER

LOCATION : BARANGAY FAIRVIEW, DISTRICT 5, QUEZON CITY ,

GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and stendards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- b Drawings specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- c Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- d Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- 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 struct accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- g Alt equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- Mobilization and Demobilization (if applicable)
 - Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly removal and site dean-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, workmantike 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
 - j All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
 - ii Temporary factities shall be provided and maintained including sanitary factities and first aid stations.

- iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
- Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demokshed, hautedout and disposed properly
- Adequate construction satety and health protection shall be provided at all times during the
 execution of work to both workers and property.
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties
 - The medical room shall be provided in waterproof; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 - III. The location of the medical room and any other emangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
 - iv. Additional selety precautions shall be provided in the observance of pandemic Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

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

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

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

concrete is placed, embedded Items shall have been inspected and tested for concrete aggregates and other materials shall have been done

c. Materials

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C = 150).
- ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, attaine, organic materials or other substances that may be deleterous to concrete or steet
- Iu. Fine aggregates shall be beach or river sand conforming to ASTM C33. "Specification for Concrete Aggregates" Sand particle shall be course, sharp, clear, free from sait, dust, loam, dirt and all foreign matters.
- iv Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear specing between reinforcing bars or between reinforcing bars and forms.

Proportioning and Mixing.

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

Cement : Sand : Gravel

- Class 'A" 1:2.3
- Class "B" 1:2:4
- Class "C" 1 : 2 ½
- Concrete modure to be used for concrete shall conform with the structural requirements.
- iii. Mixing ~ concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

e. Forms

- . General Forms shall be used whelever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be waterproof plywood and form lumber.
- Cleaning of Forms before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material
- iii Removal of Forms forms shall be removed in a manner which will prevent demage 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 Reinforcement:

Steel reinforcement shell be provided as indicated, together with all necessary wire lines, chairs, spacer supported and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scale, oil grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such mainner 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 shell be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- ii. Placing concrete shall be worked readily into the comers and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed. The discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- iii Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- iv. Consolidation of Concrete concrete shall be consolidated with the eid of mechanical vibrating equipment and supplemented by the hand speding and tamping. Vibrators shall not be inserted into lower cursed that have commenced initialisel, 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 speding and temping 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 morter 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 wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent bosing.

i. Finishino

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

B. MASONRY

- a. Masonry Units (CHB).
 - 100mm thick for all interior walls and 125mm thick for all exterior walls unless otherwise indicated.
 - Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required
 - iii. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of 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 Morter:

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

d. Plaster bond:

Apply plaster bond to all wall area.

C. THERMAL AND MOISTURE PROTECTION

1. VAPOR BARRIER

 Vapor barrier shall be placement of 8mit Polyethylene sheet prior to pouring of concrete for foundation members, slabs-on-fill and slabs-on-grade

D. ROOFING WORKS

- a. Corrugated galvanized iron (G.I.) sheets, including plain aluminum sheets for roofing accessories shall be cold-rolled meeting ASTM A-153 and with spelter coating of zinc of not less than 0.381 kg/sq m. (1.25 ounce/sq.ft.) conforming to ASTM A-525 or pns 67:1985. Unless otherwise specified or shown on Plans, roofing sheets shall be gauge 26 (0.48mm thick) and provided in long span sizes to minimize end laps. Sheets shall weigh not less than 3.74 kg/sq.m. and shall be marked or stamped showing the gauge, size amount of zinc coating, brand end name of manufacturer. Test specimens shall stand being bent through 180 degrees flat on itself without fracture of the base metal and without liaking of the zinc coating.
- b. Ridge/hip rolls, valleys, flashing and counter flashings, gutters and downspouls, whenever required, shall be fabricated from plain G I sheets. Ridge/hip rolls, flashings and counter flashings shall be gauge 26. Valleys, gutters and downspouls shall be gauge 24 unless otherwise specified on Plans. Wire basket strainers shall be galvanized, gauge 24.

Roof ventilators, whenever required shall be fabricated from gauge 26 plain G.I sheets and constructed to the dimensions and details shown on Plans.

c The roofing shall be secured to the purlins with min. 2 ½" max. 3" tong Tek screws. Provide all-purpose sealant under the fasteners. 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 the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.

- d. Polycarbonate roofing and sunbreakers shall be covered with 6mm thick Rib-type polycerbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Provide all-purpose sealant under the fasteners. Ridge rolls, hip rolls and valleys to be used shall be those competible 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.
- e. 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 comugations of the roofing sheets to prevent water from standing around the lasteners.
- Provide 6mm thick thermal insulation with single-side aluminum foil prior to fastering
 of roofing sheets to serve as thermal protection.

E. METAL FABRICATION

a. Materials:

- Steel and Iron. If not specified otherwise, use standard mill-finished structural steel shapes or bar Iron in comptiance with AISC Specifications for Design. Fabrication and Erection of Structural Steel for buildings.
- Boffs, Nufs, 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.
- Metal Purlins. High grade galvanized steel with minimum tensile strength of 275 MPa, 1 4mm in thickness or approved equal.

b. Fabrication.

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

c. Metal Surfaces.

Surfaces shall be clean and free from all scale, flake, rust and rust pitting; well-formed and finished to shape and size, with sherp lines, angle and smooth surface. Shearing and punching shall leave clean true lines and surfaces. Weld or rivet permanent connections. Weld and tlush 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 countersurit, screwed up tight and threads nicked to prevent loopening.

d Construction:

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

e Welding

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

IV. ARCHITECTURAL WORKS

A. WALLS AND FLOOR FINISHES.

- a. 300mm x 300mm Homogenous Tiles including tite adhesive.
- b 400mm x 400mm Homogenous Tiles including tile adhesive.
- 50mm Concrete Topping for Tries
- 6mm thick Fiber Cement Board on Metal Stude (double wall)
- Plastering Guide/G/coves

B. CEILING FINISHES

- a. 6mm thick Fiber Cement Board including Metal Framing.
- 600mm x 600m Accustic Board including Metal Framing.

C. PAINTING WORKS

- f. 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.
- All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- j. All surfaces including mesonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; mesonry wall shall be treated with Neutralizer
- k. All exposed finish heroware, lighting fixtures and accessories, glass and the like shall be adequately projected 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 pager.

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 submittats, shop drawings, piping, water meters, valves, tribbs, 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 Spil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fillings, valves, cleanout, drains, etc. Complete and operational
 - B 4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
- C Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.

- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- 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 materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- This shall include all information necessary to ascertain the equipment comply with this
 specification and drawings. Data and sales catalogue of a general fiature 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 whits in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary littings and pipework shall be deaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure degrande of debris.
- O Cleaning and flustwing shall be carried out in sections as the installation becomes completed.
- P The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- O. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. 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 fmishes 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-fested at the appropriate test pressure.
- The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency
- U Drainage pipe shall be tested by filling the pipe with 3m, of weter higher than the test section end wait for 15 mm, then check for leakage at every joints

- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 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 smillar 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 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 831.9 for building services piping.

VI. ELECTRICAL WORKS

- 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.
- When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

F. PANELBOARDS

- F.1 Fabricate and test panel boards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2 Englosures Flush, Surface, Flush- and surface-mounted cabinets
 - F 2.1 Rated for environmental conditions at installed location.
 - Indoor Ory and Clean Locations: NEMA 250, Type 1.
 - ii Quidoor Locations: NEMA 250, Type 3R.
 - iii. Kitchen and Wesh-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 frim 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 penelboard, wall, and cailing 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 26 Finishes:
 - Panets 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.
 - ij Back Boxes. Galvanized steel Same finish as panels and trim
 - Fungus Proofing. Permanent fungicidal treatment for overcurrent protective devices and other components.
- F 2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
 - F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
 - F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors: bonded to box.
 - F 4.3 Neutral Bus 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

Prepared by:

VERBEL JEROME A. MAPIL

Planning & Programming Division

Checked by:

tanning & Programming Division



Republic of the Philippines Quezon City

CITY ENGINEERING DEPARTMENT



Crew Center Building B, Quezon City Hall Compound, Elliptical Road
Dillman, Control (100 Quezon City
Frunk Sec: +63 2 8988 4242

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF SAPAMANAI DAY CARE CENTER AT SECOND FLOOR <

LOCATION: BARANGAY FAIRVIEW, DISTRICT 5, QUEZON CITY

I. GENERAL REQUIREMENTS

- a. Compty with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom
- b. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply
- 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 tho 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, 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, expenenced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.

- Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers end property.
 - i A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical dulies.
 - 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.
 - in. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations sultable 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.
- k. Necessary protections to the adjacent property shall be provided to evoid untoward incidents / accidents.
- Final cleaning of the work shall be employed prior to the linal inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.
- B. Removal / demolition of existing structures shall be done in accordance to safety procedures
- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.
- D. All backfills shall be placed in layers not exceeding to 150mm; in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.
- E. Excavation shall be shored and braced by members of suitable sizes where necessary to prevent danger to persons, injurious caving or erosions. Shoring bracing and sheathing shall be removed, as the excavations are backfilled, in a manner such as to prevent injurious caving. The contractor shall keep all excavations free from water while construction is in progress.

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 breekage. 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 therein, 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.
- Malerials

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C = 150)
- ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
- iii, Fine aggregates shall be beach or river sand conforming to ASTM C33. "Specification for Concrete Aggregates". Sand particle shall be course, sharp, clean free from sall, dust, loam, dirt and all foreign matters.
- iv. Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.

d. Proportioning and Mixing

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

Cement: Sand, Gravel

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

B. Forms

- i. General Forms shall be used whatever necessary to contine the concrete and shape if to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be 1/2" waterproof plywood and form lumber.
- ii. Cleaning of Forms before placing the concrete, the contect surfaces of the (ormed hall be cleaned of encrustations of morter, the grout or other foreign material.
- nii Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approvat. Any repairs of surface imperfections shall be formed at once and sixing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

f Placing Reinforcement.

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

g. Conveying and Placing Concrete:

- i. Conveying concrete shall be conveyed from mover 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 reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- iii Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- iv. Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand speding 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 speding and tamping 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 is 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.
- ii Moist Curing The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

i Fmishing

- i Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with ptywood, 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 cament 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 laid on a prepared foundation consisting of sub-grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated

B. MASONRY

Masonry Units (CHB):

100mm thick for all interior walls and 150 mm thick for all exterior walls unless
otherwise indicated.

- Use 400 osi 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 & linter beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.

b Sand:

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

ç Mortan

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

d. Plaster bond

Apply plaster bond to all wall area.

C. ROOFING WORKS

- a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compabble with the Ga. 24 pre-painted G.E. no-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" sing 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 mesonry walls such as property line friewalls, 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 walt. All fasteners shall be placed at the top of the consignations of the roofing sheets to prevent water from standing around the fasteners.

WATERPROOFING

Waterproofing:

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

b. Testing:

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

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

IV. ARCHITECTURAL WORKS

A. CEILING FINISHES

a. 6mm Fiber Cement Board including Metal Framing

B. FABRICATED DOORS & WINDOWS

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

C. 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, subbed and pokshed; masonry wall shall be treated with Neutralizer
- f. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B. Supply, installation and testing of the following:
 - B.1 Potable water supply system complete in all respects including but not limited to submittats, 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 timited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
 - B.4 Storm drainage system complete an all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, grains, 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 ellocated 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 escertain 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 extangement 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 manufecturer'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 escertain the equapment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed; and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris
- O Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable lest 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 ducta are closed. Also test shall be carried out prior to false callings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the systems 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. Instalt building ettechments within concrete clabs 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; faster 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 slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

VI. ELECTRICAL WORKS

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

F PANELBOARDS

- F.1 Fabricate and test panel boards according to IEEE 344 to withstend seismic forces defined in Division 16 Sections 16073 and 16074 "Hengers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- Fig. 2 Enclosures. Flush, Surface, Flush- and surface-mounted cabinets.
 - F.2.1 Rated for environmental conditions at installed location
 - Indoor Dry and Clean Locations: NEMA 250, Type 1.
 - Outdoor Locations: NEMA 250, Type 3R.
 - Kitchen and Wash-Down Areas. NEMA 250, Type 4X, stainless steel
 - Other Wet or Damp Indoor Locations: NEMA 250, Type 4

- y 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 Penel boards: Same gage and finish as panel board front with franges 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. Assange 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 thermogenting topocat.
 - ii. Back Boxes: Galvanized steel Same finish as panels and trim.
 - Fungus Proofing Permanent fungicidal freetment for overcurrent protective devices and other components.
- F.2.7 Directory Card: Inside panel board door mounted in transparent card holder metal frame with transparent protective cover.
- F 3 Incoming Mains Location: Top or Bottom.
- F 4 Phase, Neutral, and Ground Buses.
 - F.4.1 Material. Hard-drawn copper, 98 percent conductivity
 - F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box
 - F 4.3 Neutral Bus. 100 percent of phase bus 4 Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

CHRISTIAN A. CLEOFE Planning and Programming Divison. JOCEENN A NAONG Planning and Programming Division

Page 9 of 9



Republic of the Philippines Quezon City

CITY ENGINEERING DEPARTMENT



Civic Center Building B, Quezon City Hall Compound. Elliptical Road
D#rham. Central 1100 Quezon City
Trunk line: +63 2 8988 4242

TECHNICAL SPECIFICATIONS

QUEZON CITY BARANGAY PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF SITIO KISLAP DAY CARE CENTER >

LOCATION: BARANGAY FAIRVIEW, DISTRICT 5, 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 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 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 accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent expenenced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- j Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and properly.
 - 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.
 - 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 pandamic.
 Protocols set-forth by the government shall be skrictly followed.
- k 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, tevels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistences shall be reported before commencing to work.
- B. Removal / demolition of existing structures shall be done in accordance to safety procedures
- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.
- D. All back@is shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

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

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C = 150).
- ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkeline, organic materials or other substances that may be detectious 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, foam, dirt and all foreign matters.
- iv Coarse aggregates shall be either natural gravel or crushed rock conforming to the 'Specifications' for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear specing between reinforcing bars or between rollnforcing 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 Gravet

- 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.
- Mixing concrete shall be machine mixed. Mixing shall begin within 30 minutes
 after the cement has been added to the aggregates.

e. Forms

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

Steel reinforcement shall be provided as indicated, together with all necessary wire tires, chairs, spacer supported and other devices necessary to install and secure the reinforcement 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, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

Gorrveying and Placing Concrete

- Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients.
 There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- iii. Placing concrete shall be worked readily into the corners and angles of the forms and asound 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 tateral movement specified.
- III. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- iv. Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set, and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- v. Placing Concrete through reinforcement in placing concrete through reinforcement, care shall be taken that no segregation of the coarse eggregate occurs. On the bottom of beams and 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 wet by covering with burlap plastic or other approved materiels 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 detects 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.
- iii. Concrete Slabs on Fill. The concrete stabs on fill shall be taid 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

- Mesonry Units (CHB):
 - 100mm thick for all interior walls and lexterior walls unless otherwise indicated.
 - ir 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 stab unless otherwise indicated on plans. Provide stiffener columns & fintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.

b. Sand:

S-1, washed, clean and greenish in color

Mortar.

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

d. Plaster band:

Apply plaster bond to all wall area.

C. ROOFING WORKS

- a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing shoets as shown on the plans. The roofing shalt be secured to the purions with min. 2 ½ max. 3' long TeX 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 be riveted to 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 purline with min. 2 ½' max. 3' tong Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lep the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- Alt roofing sheets adjacent to concrete hollow block and other masonry wells such as properly line frewalls, shall be provided with Gauge 26 pre-painted plain G.F. 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.

D. WATERPROOFING

a Waterproofing:

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

b Testing:

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

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

IV. ARCHITECTURAL WORKS A. TILE WORKS

- a. Both broken and unbroken old tiles must be chip-off
- b. Surface should be smoothen 8, clean.
- Ceramic lifes shall be soaked in clean water prior to installation.
- d. Lay the tires true to profile as specified in the plan.

B. PROVISION OF CABINET

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

C. FABRICATED DOORS & WINDOWS

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

D. PAINTING WORKS

- All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- Application shall be as per paint Manufecturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished, masonry wall shall be treated with Neutralizer
- All exposed (nish hardware, lighting fixtures and expessiones, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules regulations and requirements of the utility companies (as applicable).
- B. Supply, installation and testing of the following
 - 8.1 Potable water supply system complete in all respects including out 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.
 - 9.3 Soil waste and vent system complete in all respect including but not limited to connection to oxisting 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 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.
- 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 contemination 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 riems suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All senitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N All Installed pipelines shall be flushed through with water, roddled 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 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.

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 stringert apply.
- C All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes
- D. Executé 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.

PETÉ ANDRE S. IMATONG

Planning and Programming Division

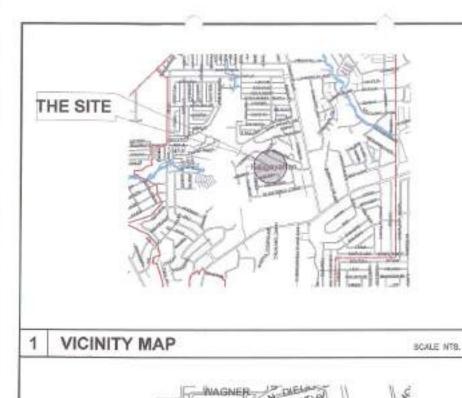
JOCELYN A NAONG

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.]



SITE DEVELOPMENT PLAN

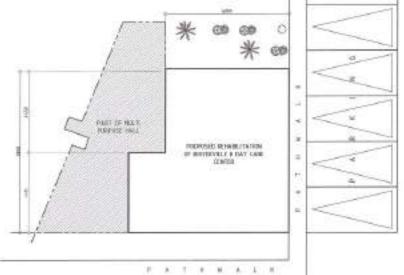


TABLE OF CONTENTS

| | ARCHITECTURAL |
|--------|-----------------------------------|
| Alf-01 | VICINITY MAP |
| | LIDICATION PLAN |
| | PERSPECTIVE |
| AR-02 | FLOOR PLAN |
| | REPLECTED CELLING PLAN |
| A#-00 | FRONT BUSWATION |
| | CROSS SECTION THRU WOW |
| | LETTERING DETAILS |
| | LONG/FUDINAL SECTION THRU "B"-"S" |
| AN-45 | SCHEDULE OF DOORS |
| | STEEL CABINET DETALS |
| | COUNTERTOP DETAILS |
| | PLUMBING |
| PL-01 | GENERAL NOTES |
| | PLUMBING LAYOUT |
| | ELECTRICAL |
| EL-01 | GENERAL NOTES |
| | LETIEND AND SYMBOLS |
| | MISCELLANEOUS DETAILS |
| 61,413 | ELECTRICAL LAYOUT |
| | MECHANICAL |
| NE(r) | GENERAL NOTES |
| | PLEXIBLE CONNECTION DETAIL |
| | |
| | MECHANICAL LAYOUT |

PIPE BLEEVE DETAILS

ME-02 MECHANICAL LAYOUT

PEFFICERARY DRAWN FIRE INSULATION DET

SCHEDULE OF ARRICOMOTTON UNIT



2 LOCATION MAP SCALE NTS 3 PERSPECTIVE SCALE 1.150M



THE SITE

Rapubliks og Pilpinin Lungsod og Queson CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF BISTERVILLE II DAY CARE CENTER

PROJECTETITLE

ESONTION MANAGENY NALIGIATIVE DESTRICT Y, QUESTIN CITY



ENGR, LUD S. DEL ROSARIB

ENGR IBANAN R. VERZOSA, JR.

RECOMMENDING WYROCH.

HON, MA, JOSEFINA G, BELMONTE

CETT MARCH

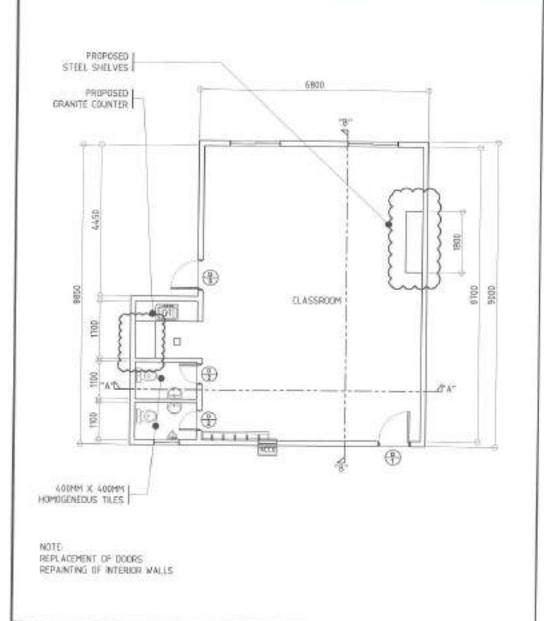
APPROVIDED BY

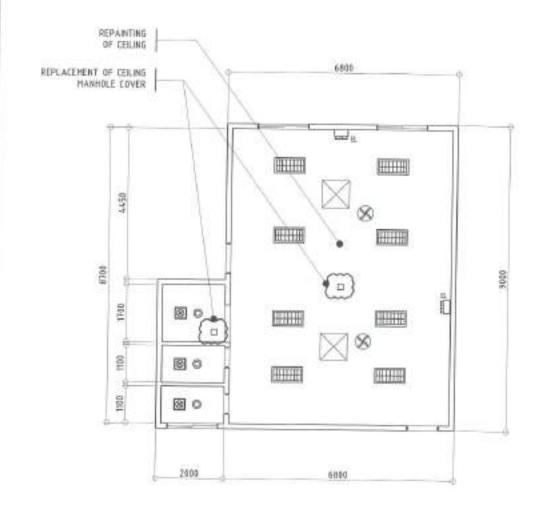
VICENTY PRIP EDITION MAP REPORTED THE

SHIGHT CONTENT.

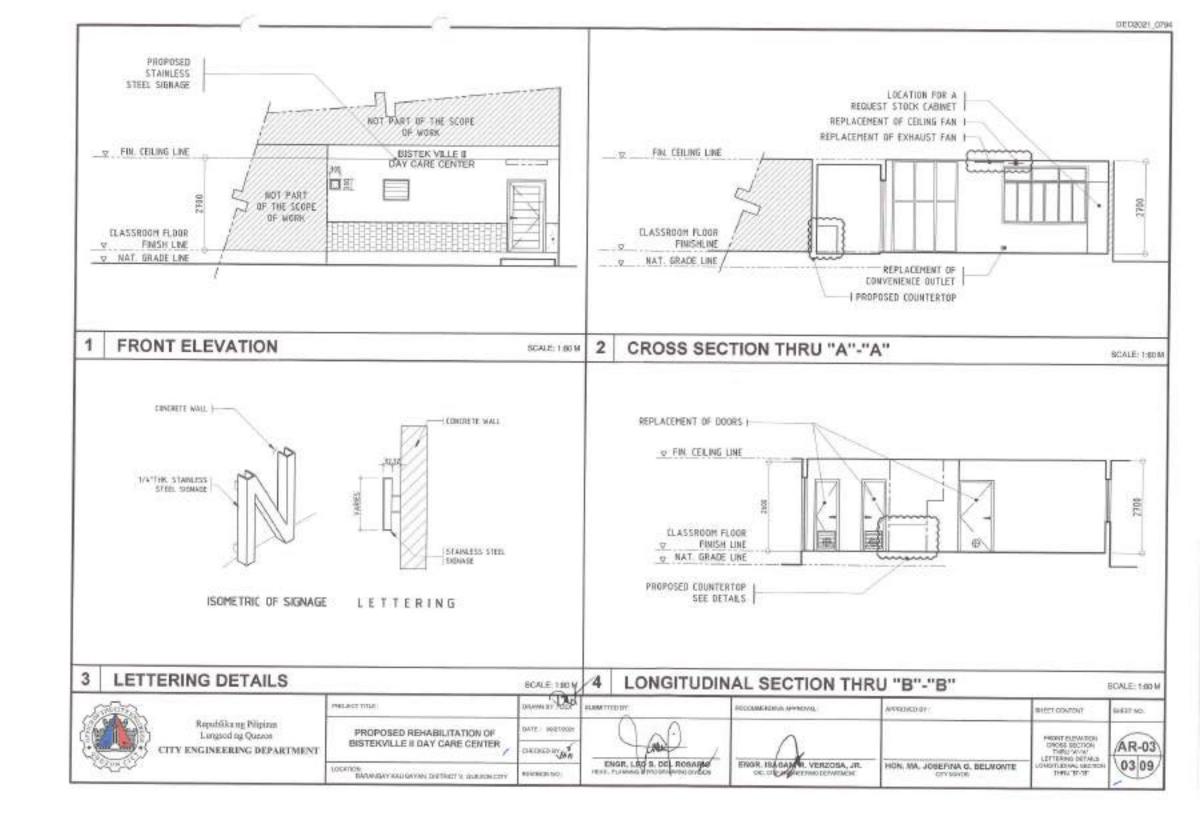
AR-01 01 09

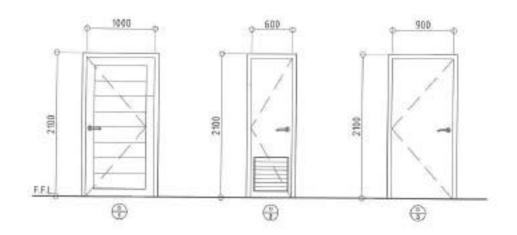
SHEET NO.





FLOOR PLAN REFLECTED CEILING PLAN SHALEYIJOM SCALE: 1:80 M DISSAMEN DES PROJECT TITLE **GARACTIVE BY** ROOMBING APPROVIS APPROVED BY THEFT CONTENT SHEETHE Republika ng Pilipinas DATE: SHOTHER PROPOSED REHABILITATION OF Lungsoding Quason BISTERVILLE II DAY CARE CENTER AR-02 CITY ENGINEERING DEPARTMENT DECKE W T PLOOR PLAN REPLECTED CELLING PLAN ENDR. LEG S. BEL ROSARSE 02 09 LOGATON BARANGAY WALISIAYAN, DIRTRICTY, GUCZDINGTY EROR ISACON III. VERZOSA, JR. HOW. MA. JOSEFINA G. BELMONTE PENNSON NO. DEVENOORS

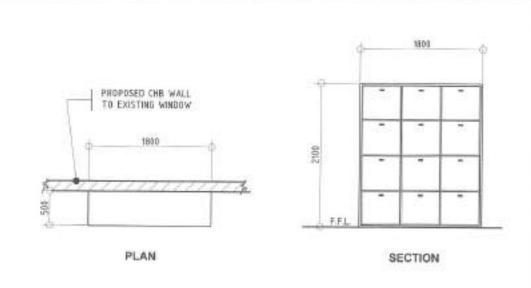


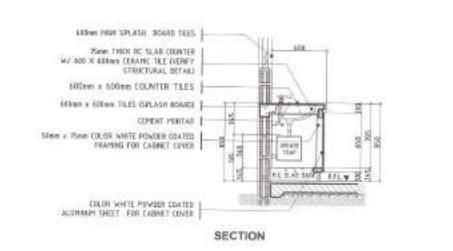


| NAME | 3 | ⊕ | 1 |
|-------------|-----------------------------------|-----------------------------------|--|
| NO. OF SETS | 17 | ž | 1 |
| DESCRIPTION | METAL PLUSH DOOR | PVC BOOR WITH LOUVER | 4MM THC GLASS ON ALUMNUM FRAME SLIDING DOOR |
| LOCATION | CLASSROOM | TOLET | CLASSROOM |
| HARDWARE | STAINLESS LEVER TYPE DOOR KNOG | STAIMLESS LEVER TYPE DOOR KNOB | GTAINLESS LEVER TYPE OGGR KNOB |

1 SCHEDULE OF DOORS

SCALE: 1:40 M





ACTRICACO OV



SOME THOM 3 COUNTERTOP DETAILS

BCALE: N.T.S.

SHICCT ME

Republika ng Pilipinas Lungsod ng Queson CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF BISTEKVILLE II DAY CARE CENTER CHOSED BY A BINNESSAY GUIDAYAN, DESTRICT Y, QUEZONOTY HENRISMAN.

ENGR. LEO S. EEL ROSARID

ENGR. ISASIANE, VEHZOBA, JR.

BCHELLE OF DOORS.
STES, CARRIET OF TALS
COMPETITOR DETAILS
COMPETITOR DETAILS

seen covitain

AR-04 DET DETAILS DET CETAILS D4 09

- 1. All EXPERSION WORKS WHALL BEDONE IN ACCORDINGS BITH THE PROVINGING OF THE LATEST EDITION OF THE INSUPPOSE BLECTRICK, CODE, THE LANS AND GROWNINGS OF THE LOCKL CODE INVOICES ALTHORITIES AND THE REQUIREMENTS OF THE LOCAL POSSER MAI TELEPHONE: UTILITY COMPRIME
- 2. THE CONTRACTOR SHALL REQUIRE ALL PORMETS AND FAY ALL PERSTROQUESD FOR THE WORK AND SHALL PLASSEN THE ORBER THROUGH THE EXCERNING, PIVAL CENTRICATES OF SUSCITION, INSPECTION AND APPROVAL PROBLEMOTER. GOVERNMENT AUTHORITIES FOR EXHIPLETION OF HERIK
- All triggedoed drawled circulate gradules. Put consolints and province described installation shall be set in propried an CORESULT ICLANSIE EVENY TOR MILLINETEN
- 4. PRAIL BOXES SHIPLY BY PROVIDED BY THE CONTRACTOR SHIPLEWAY PROVIDENCY TO VACUATIVE SHIPLE PLANTS ON IF THESE. APENOR INDICATED ON THE PLANS. BIZING OF ALL PLANSMESS SHILL ML COMPLIED DAZED ON THE CODE VEGLARISHENDS. SLEMET SHOP DAMANGE TO THE ENGREES FOR APPROVAL PRIOR TO FASSION DO FIGH OF PLALIBORES SHALL BE APPROVED BY THE ARCHITECTRINGSMENT AND MUST BE REPLECTED ON THE "ASHBULT" PLANT
- IL. HELPONICE CUTLETS, AND SWY TOHER SHIPE, HE ENCLINE HIS TIPE WITH PARKELLES GLOTS FOR 250 Y.
- 8. PROVIDE GROUND FALET GURRANT INTERRUPTER GROUNT INTERRUPTE FOR LOADS HARRIED "GROU" ON THE PLAN.
- F. ALL WETHLING CONDUCTS, CHRINETS AND SICLIPMENT SHALL BE PROPERLY CHOUNTED AND BOADSD.
- A. UNLISE OTHERWISE HOTED, HOWITHIS HEIGHT FOR WALL MOUNTED DEVICES BANK! HE AS FOLLOWS

RECEPTACLE CUTLET - 100 MIS AFF, HISHER ABOVE MORKESS COLNTRE)

TELEPHONE DUTLET - 300 HM APP GRIV OUTLET - 300 MW MFF

LIGHTING GOVERN - 1690 RM AND PANELSICARD - 1008 NR ACC

- E. PEFER TO MODIFIED, FUNDING ME HIRE PROTECTION DEVAMINGS FOR ENTIRES AND LOCATIONS OF EQUIPMENT AS WELL. AS THEIR CONTROL SECURIOSS AS SPECIFIED AND ON SHOWLUNDER THEIR RESPECTIVE SECTIONS.
- THE ALL MATERIALS TO BE USED SHALL BE OF THE SEST CLAUTY. GRAVE HER AS SPECIFIED.
- 11. THE LINCONDERVISION OF CONTINUE ARE REPORTED TO PRESENT GENERAL LAYOUT AND WHOM DUTLINE TERRORIPTION OF THE REQUEST BUT DO NOT NECESSARIL I RESCATEDESCRISED ACTUAL LOCKTONS, LEWIS AND DISTINGUES OF THE EXSENSENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADMISTMENT AT THE JOSSIES AS LOCATION, DISCOVERS AND LEVELS ARE GONDRING OF ACTUM, FIR LIS CONDITIONS.
- 13. MAY DECREPANCY SETWEDS THE FOUR AND IMPORTANCING SHALL BY DECIDENT TO THE ATTENDATOR THE ENGINEER FOR CLARFIDATION OF CHICAGO
- 13. ALL LIGHTNO WELGOWENERGE DUTLET ORIQUITS IS ALL BE 3.5.30. MILL THIRD 2.00 CHEST WHILL BE ASSOCIATED WITH THE SECOND PROPERTY OF THE RESIDENCE OF WAR THILL BY 1 5 SQ. MR COPPUT WIFE, ALL WIFES AND CASES/ SHALL BY DOLDS COSMIT AS FOLLOWS.

LINE 1-RED LINE 2 - YELLOW RELITERAL - HARTE ORDUSE-MARKS

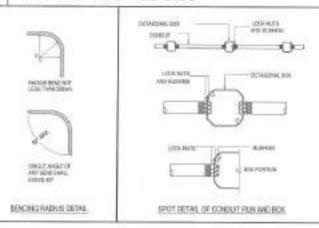
16 RODER WIRE BUTTERS BULLOSING SHILL BE FASSIONED ERCHITETUM SHIPTONESS SEPTIMONES. HARMAN WORK OF THE WIDER BURFACE STEEL

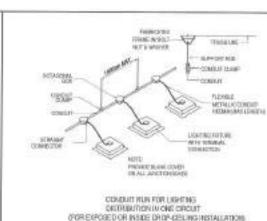
UP TO HOLLIDRIC IDEAD MIS GA LEPANYTED WITH METAL HRISING SPOKE AND TOROGHT OVER 192,40 WW BUT NOT CHER 467.50 OA 14 PAINTED HITTH WETAL PRIMER GROWN AND TOROGHT OVER 487 30 VAN BUT 1801 OVER 749 VAN OA 12 PAINTED WITH WETAL IMMER SPORY AND TOROCAT CHES THE UNI OA 10 PICKTED INTH METAL PRIMER EPONY AND TOPOCHT

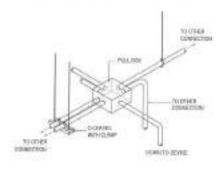
- THE ALL RECTYCOL WORKS HERE IN ORLL BE EXECUTED BY EXPERIENCED AN ORDER THE DIRECT SUPERABORION A FULL THE LEGISLED ELECTRICAL. INVARIGER AND A DULY ADDRESS TED SLECTRICAL CONTRACTOR BY PCAST WORLD RIVEL. BE NEATLY FLACED, SECURIE, I PARTHIED AND PROPERLY INVIDED.
- HE. THE OF SOMICE SYNAMES SHAULTE STROLE PHACE, THIS WIFE FLUG GROUND. SE HERTZ 2004 KC SCHAMIS.
- 17. CONCUTS WHO CASE SHALL THERE HE BORE THROTTHE BOLEVALENT OF YOUR CLARITER BEING HEAVY ONE RUN. ALL CONTROL SHALL BE FILD WAS 9Y USING HYDRALLIC BRIDGERS. MINIMUM RETERMS MUST BE IN ACCORDANCE. TO THE COOK REQUIREMENTS.
- 18. LPDN COMPLETON OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTANCE TEST AND PURCHOWLITY TEST SHILL BE PRIFE CREEKO BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DRIVALE ON FORME APPROVED. BY THE QUEZONOTIVE EXCEMENTED DEPRETURENT DEPRETURENT OF DECEMBER OF DECEMBER OF SUBSTRICTS OF SUBSTRICTS. SHALL HOT BE WORE THAN I CHAIR COMMUNICATION DISCUSSING RESERVICE DIVILL HOT DISSED 2 GHAS

| | 300mm x 1200mm (EI) tube in Troffer Figure | 6 | Circuit Homerun | |
|----------------|---|-----|----------------------|--|
| 0 | 6" Roand Surface Philight (case) | 200 | Circuit Breeker | |
| 8 | 192mm x 192mm Calling Mounted Enhanced Fair | = | Grounding | |
| \square_n | Energiacy Light, Evenhead | 29 | Lighting/Power Panel | |
| S _o | One Gang Switch | | | |

LEGEND & SYMBOLS







PROFER CONDUIT LINGUIT MIRELL BOX

GROWNING DOMESTICKS TOTAL PLANE REPORT NAMED WHILE. DESCRIPTION OF THE PARTY OF THE C FOR GROUND VIEW ONGLIAN Indopporus DOWNSTON OF THE MORD WOOD METH, CONSULT CONSTRUCTIONS AETHER COMMON TO A SWINGSON HOLD DRIVEN HER REPORTED. TO BE A GORDAD COMMUNITY THROUGHOUS BONDED RACEWAY TERMINATION FOR SHEET METAL

PENDONNO.

MISCELLANEOUS DETAILS

SOME NTS



Republika ng Pilipinas Lungsood ng Quanon

GENERAL NOTES

CITY ENGINEERING DEPARTMENT

PROJECT TITLE

PROPOSED REHABILITATION OF BISTERVILLE II DAY CARE CENTER

SCALE NTS

DOCATED: DAGAMDAY KALIDAYAM, DISTRICT V. CLEZON OTY



SHEWSTER BY

ENGR. NEO S. DEL BOSABIO



COOMMENDING ARRIGORY

HOM, MA. JOSEFINA G. BELMONTE

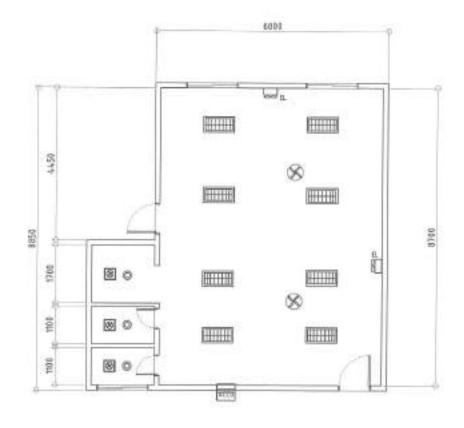
APPROVISO BY

DICHOS AND GHAROLS MISCRIANICUS. DETAILS

WHENT CONTINUE

EL-01 06 09

SHEET NO.



MOTE

- . REPLACE ALL EXHAUST FAN
- * REPLACE ALL CEILING ORBIT FAN
- * REPLACE TWINLIGHT EMERGENCY LIGHT
- . REPLACE ALL LIGHTING FIXTURES

1 ELECTRICAL LAYOUT

SCALE NYS

энеет соктент



Republika ng Pilipinas Langsod ng Queson CITY ENGINEERING DEPARTMENT

| PROJECT TIME: | CRAWKBY, DOX |
|-------------------------------|-----------------------|
| PROPOSED REHABILITATI | ON OF DEED WATER |
| BISTERVILLE II DAY CARE | SENTER / CHECKEN WELL |
| LOCICION DATABLEMY CHETRET V. | DATEDROFF APPROVED |

| AUBITTURE. | - |
|------------|--------------------|
| (| 100 |
| 1 | - delate |
| - | LEG S. DEL ROSARRO |

| 1 | |
|------------------------|---------|
| ENGR. ISAGASI R. VERZO | SA, JR. |

PERCORPER DIRECTORS.

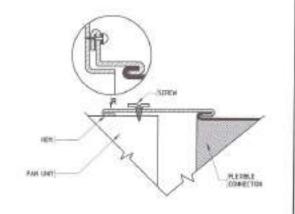
| | STROMER'S PALOD |
|-------------------------------|-----------------|
| HOW, WA. JOSEPHNA G. BELMONTE | |

APPROPRIEST BY

EL-02 07 09

DETTAG

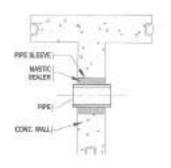
- 1. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PSME CODE AND THE RULES AND REGULATIONS OF QUEZON CITY.
- THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS.
- 3. THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER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

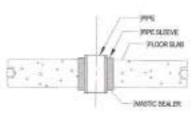


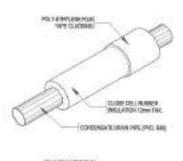
| - - | COLINE HOLATED ARCHITECHING BIST |
|----------------|----------------------------------|
| 0 | ERRYROIT DESIGNATION |
| Actu | THE CREMES EQUIDATING VINEL |
| 113 | FAR COLUMN |
| -€ | Harv to |
| -0 | 11.00V 30VH |
| -RP | REPORT FOR |
| | AND DOCUME CONDESSING WAT |

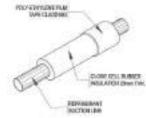
FLEXIBLE CONNECTION DET.

LEGEND AND SYMBOLS BOALENIS









GENERAL NOTES

PIPE SLEEVE DETAILS DIAMET I BOOKED

NOOSMIIDORG APPROVA.

YELLSYCHTEN

5

SCALE NTS

SCALE NTS DIA LITTER

ME-01

Republika ng Plipinas Lungsoil ng Queson CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF BISTEKVILLE II DAY CARE CENTER /

LISCHTER: EMPANIONY KALIENYANI DISTRICT V. GLEZON CITY

PRODUCTIONS

онооние! PERSONNO.

DATE: - IMMERSOR

ENGR. LINO & DEL ROSARIO

ENBR. ISABANAR, VERZOSA, JR.

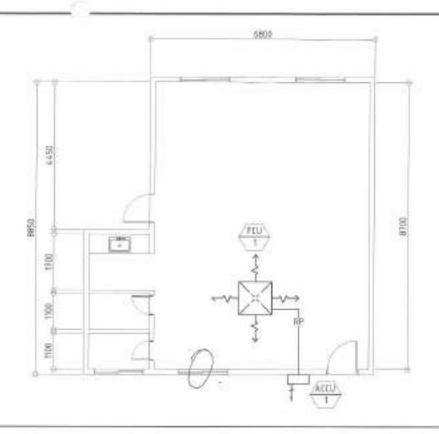
HON, MA. JOSEFINA G. BELMONTE

REFRIGERANT/ DRAIN PIPE

INSULATION DETAILS

GENERAL NOTES FLEXIBLE CONNECTION DETAILS LEGENO & SYMBOLS PLESTER DELATS REFTROEPANTI DRAIN PPE DETAILS

SHEET DONORS



MECHANICAL LAYOUT

SCALE,1:80 WETERS

SPLIT TYPE AIR-CONDITIONER - AIR-COOLED CONDENSING UNITS

| DESIGNATION | LOCATION QUANTITY | | COOLING CAPACITY | | AIR CIRCULATION | | POWER INPUT | ELECTRICAL SUPPLY | | REFRIGERANT PIPE | | DRAIN PIPE | REMARKS | |
|----------------|-------------------|----------|------------------|--------|-----------------|------------------|-------------|-------------------|-------|------------------|-------------|------------|---------|---|
| OUTDOOR INDOOR | | QUANTITY | HP | BTU/HR | INDOOR, | OUTDOOR, outs | WATTS | VOLTS | PHASE | HERTZ | LIQUID, cum | GAS, cum | | FAN COIL UNIT SHALL BE |
| ACCU FCU | GROUND FLOOR | 1 SET | 2.5 | 24,000 | 14 - 20 | 460 | 2.22 | 230.0 | 12 | 60.0 | 9.525 | 19.05 | 32 mm | CEILING CASSETTE TYPE CONTRACTOR SUPPLY AND INSTALL |

SCHEDULE OF AIR CONDITION UNIT



Republika ng Pilipinas Langsoding Quezon CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF BISTERVILLE II DAY CARE CENTER LODG/FOR BAPANDAY KALISAYAN, DISTRICT V. CAULISIN CITY

PROJECT WALL

OVER) ONITIONS DECEMBER 1 REVERSINGS:

DOMESTIC STREET

ENGR. LEGS. DEL ROSARIO

ENOR ISAGAR R. VERZOSA, JR.

ANDREW SHOPMAKER

HON, MA. JOSEPHA O. BELHOWTE

ACTRIOVED BY:

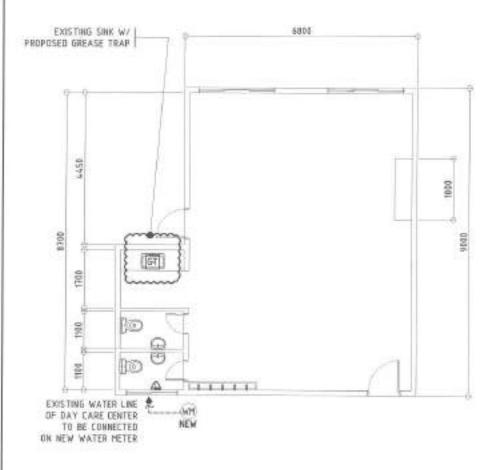
MEDIANICAL LAYOUT SCHEDULE OF AIR

SHEET CONTINUE

ME-02 CONDITIONUME 09 09

SHEET MIL

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



NOTE

- PROPOSED INSTALLATION OF NEW SEPARATE WATER METER FOR DAYCARE CENTER ONLY
- REPLACEMENT OF ALL PLOMBING FIXTURES
- REPLACEMENT OF HANDWASHING FAUCETS.

PLUMBING LAYOUT

1 GENERAL NOTES

Reguldika ng Pilipnas Lingsod ng Quezon CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF BISTERVILLE II DAY CARE CENTER OF CHECKER WAS DECIDED WAS DECID

ENGR. LIGO S. DEL ROGARIAS
HELO. PLOCANOS PROCEDIOS

ENGR. ISAGANG, VERZOSA, JR.
OE. O'NOS PECTAGLISMAN

APPROVED BY | BREET CONTENT SPEET NO.

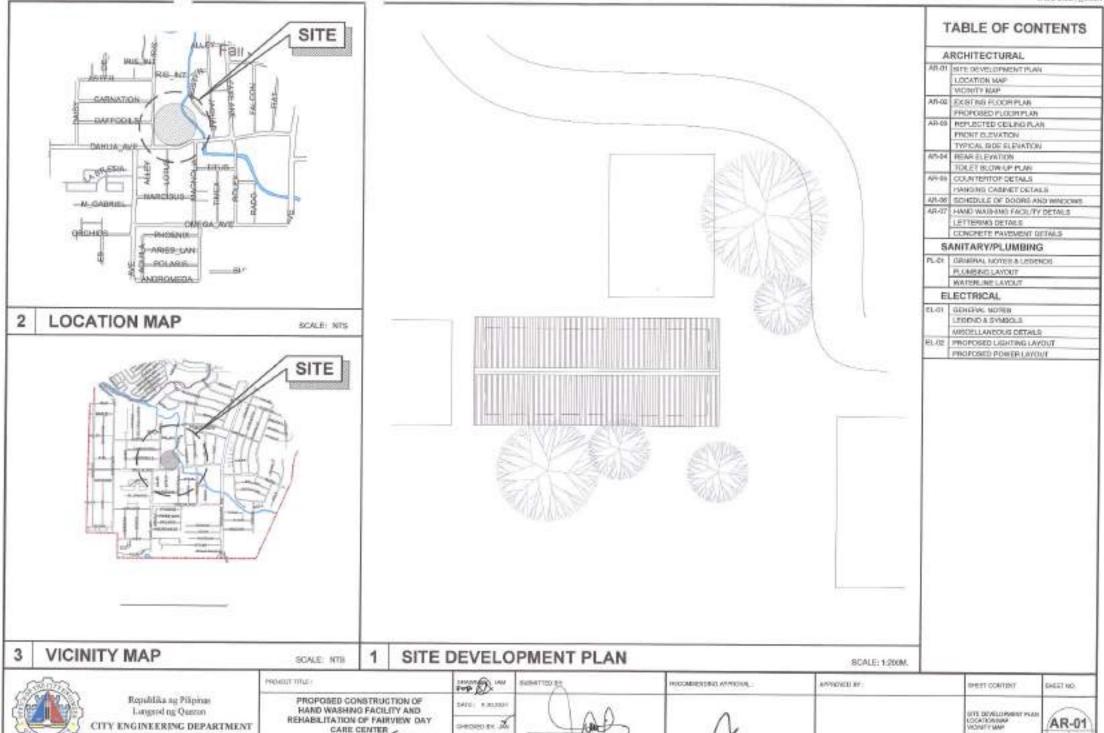
HON, MA, JOSEFINA G. BELMONTE

PLIMBNG USSOUT

PL-01 05 09

SCALE: 1:100 METERS

01 10



ENGR. LEG S. DEL ROBARIO

ROYSON HO.

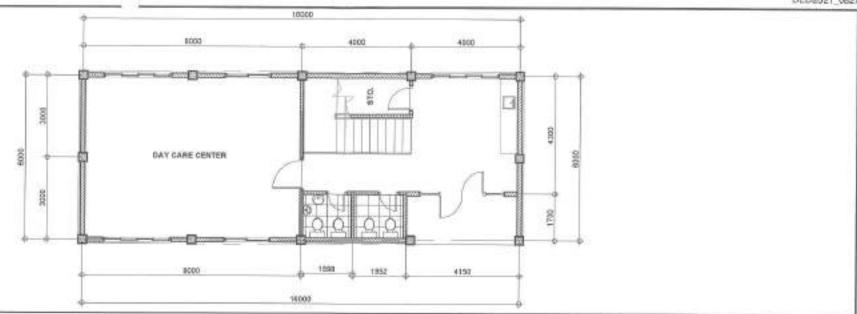
SESSATERY

BROT, FWINGEN, DISTRICT'S, QUEZONOTY

ENGR. ISA GARRIER R. VERZOSA, JR.

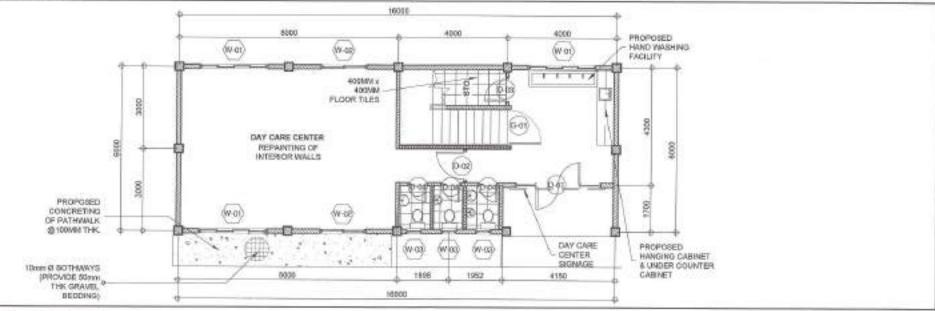
HON, MA, JOSEFINA G, BELMONTE

STYMMON, GICSONGTV



1 EXISTING FLOOR PLAN

BOALE 1:100M.



1 PROPOSED FLOOR PLAN

SCALE: 1:100M

SCALE: 1:100M.

SHIRT CONTINUE



Republika ng Pilipinse Lungsod ng Queeen CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF HAND WASHING PACILITY AND REHABILITATION OF FARVIEW DAY GARE CENTER



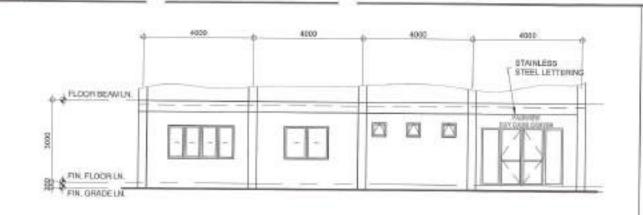


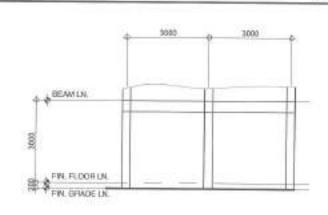


HOW MA. JOSEPHA G. BELMONTE

LITHOUSE SEEDINGTO



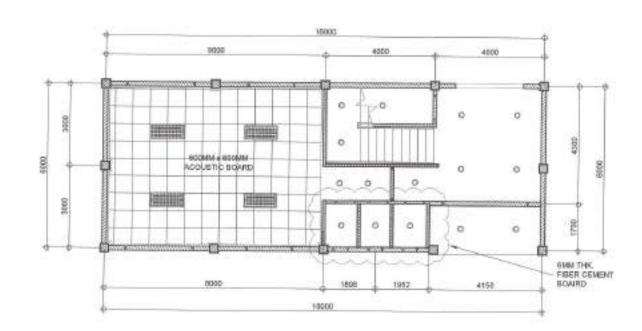




2 FRONT ELEVATION

3 TYPICAL SIDE ELEVATION

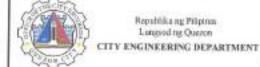
SCALE: 1:100M



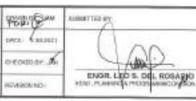
1 REFLECTED CEILING PLAN

SCALE: 1:100M

INVESTIGENTIAN



PROPOSED CONSTRUCTION OF HAND WASHING PACILITY AND REHABILITATION OF FARVIEW DAY CARE CENTER



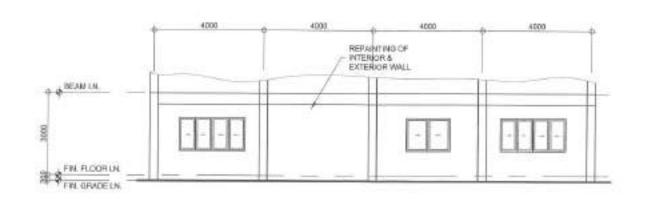


HON, MA. JOSETINA G. BELMONTE

DETYMAYOR, GUESOWOTY

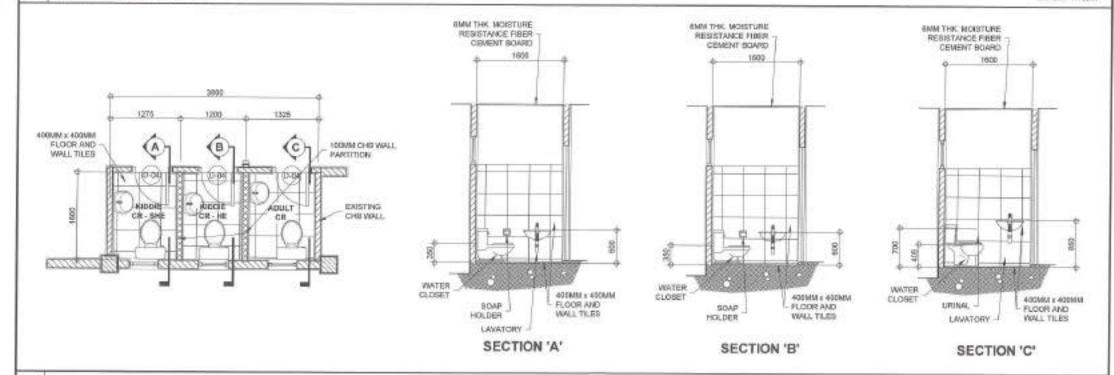


WRITING.



2 REAR ELEVATION

SCALE: 1:100W.



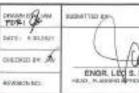
1 TOILET BLOW-UP PLAN

SCALE: 1:100M.

THURSD 13340



| PROF | GBED CONSTRUCTION OF |
|---------|--------------------------|
| HANG | WASHING FACILITY AND |
| REPLABI | LITATION OF FAIRVIEW DAY |
| | CARE CENTER |





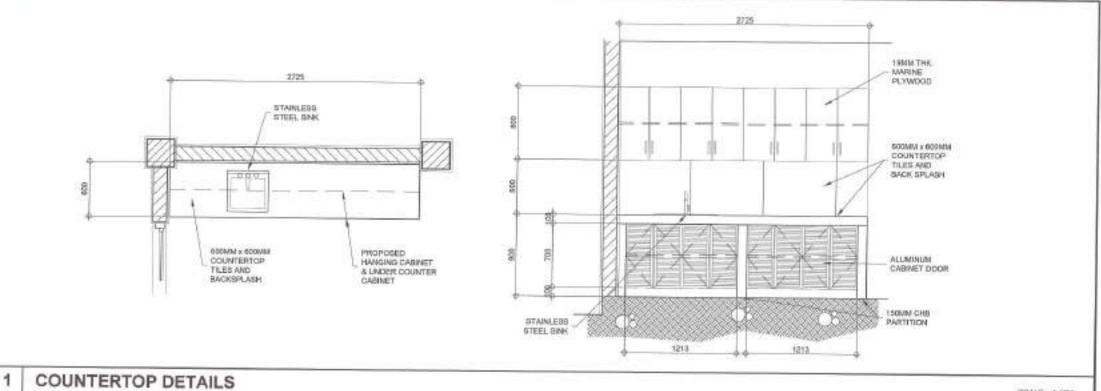
| HOOON | MENDERO APPROVAL: |
|-------|------------------------|
| | Λ |
| E | GR. GAMER VERZORA, JR. |

| | TOLET BLOW-IP PLAN |
|---|---|
| ON. WA, JOSEFINA S. BELMONTE GITY WAYOR, GLEZONORY | 200000000000000000000000000000000000000 |

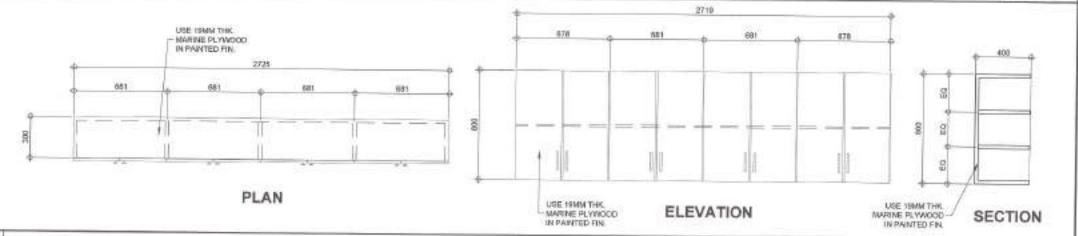
APPRINCE BY

AR-04 04 10

DARRET NO.



SCALE: 130W.



HANGING CABINET DETAILS

SCALE: 1:20M.

CALLEREN

OFFICE CONTENT



Republika ng Pilipinas Lungs od ng Queeen CITY ENGINEERING DEPARTMENT

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF FAIRVIEW DAY CARE CENTER **LOCATION**

BROY, PARINEW, DETRICTS, GLEENIGTY

PROJECT TITLE:

DERNING THE WAR DATE: 13MJHS1 CHECKED BY A REVENOUNCE:

SUBMITTED SIX ENOR, LEG S. DEL ROBARDO



APPROVED BY

EXTY MARRIE GARGON CRY.

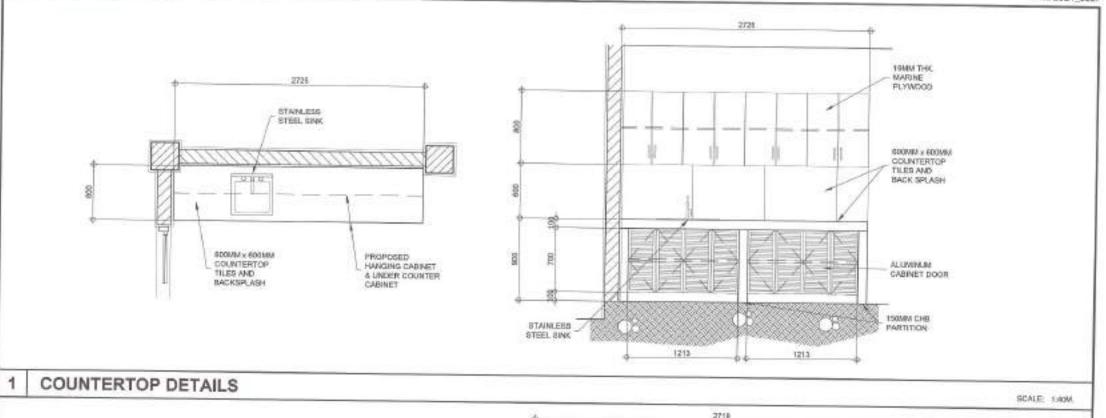
пестаменому измосии...

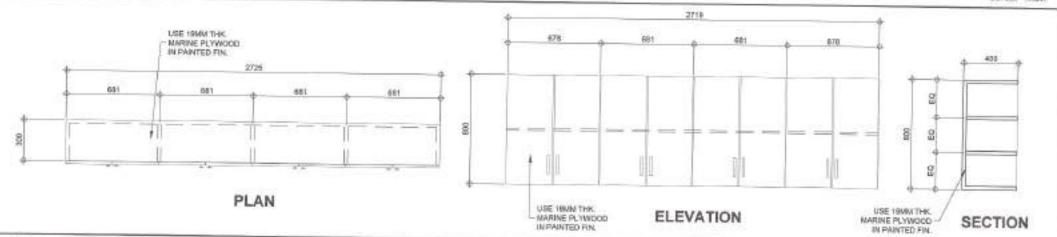
CONTENTO DETAILS HARRIST DETAILS HON, MA. JOSEFINA G. BELMONTE

J.OP. AR-05 05 10

OWNER

'E! 2M JA.C





HANGING CABINET DETAILS

5CALE: 1:20M.

THE WOOD THE



Republika ng Připina Lungsod ng Quezou CITY ENGINEERING DEPARTMENT

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

BROW FARRIEW, DISTRICT & GLEZONICITY

LOUVEDAY

CHANNEL WA 100,00 STN0 Outcomes As PERVISION NO.

SLEWITTED BY-ENGR. LEG S. DEL ROSARIO



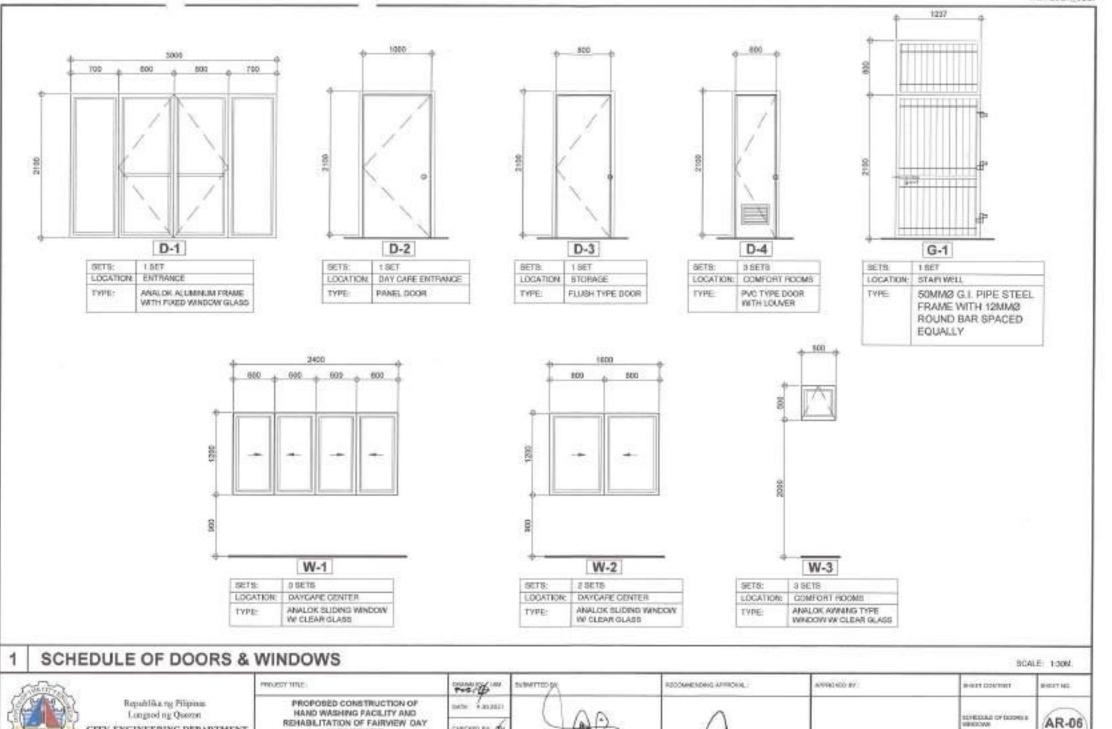
PECCERATIFICAND APPRICIAL

DO, APENTON DETRICE HANGING CAMBOT DETRIC HON, MA. JOSEPHNA G. RELINONTE OTT MAKER, GUIDEN CITY

AR-05 05 10

писстко.

06 10



ENGR. LED S. DEL ROSARIO

ENGR. BARNNI R. VERZOSA, JR.

HON, MA, JOSEFINA G, BELMONTE CITY MAYOR - GUESON CITY

REHABILITATION OF FAIRVIEW DAY

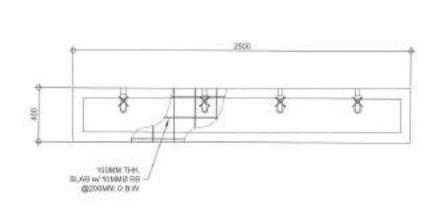
CARE CENTER

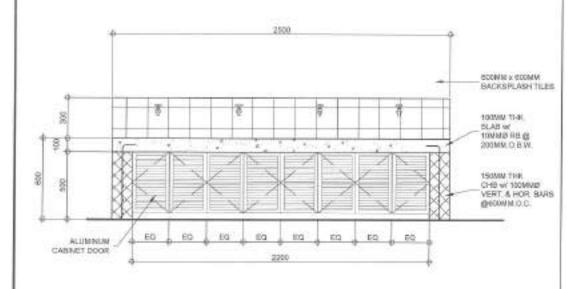
BROY, EXERCEN, DISTRICT N, QUEZONICTY

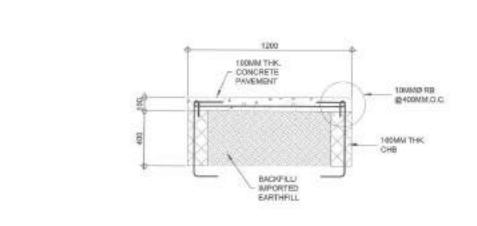
снескей ен. Жи

Apreson No.:

CITY ENGINEERING DEPARTMENT

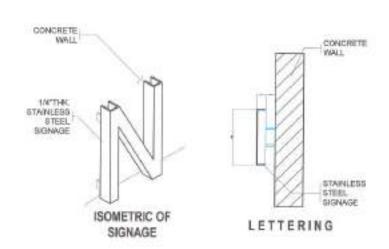






3 CONCRETE PAVEMENT DETAILS

SCALE 100M



amenda ex

HAND WASHING FACILITY DETAILS

SCALIE: 1:20%

LETTERINGS DETAILS

SCALE: NTS

DEST CONTENT

Republika ng Pilipinas Lungsod ng Quaxan CITY ENGINEERING DEPARTMENT PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF FAIRVIEW DAY GARE CENTER

SHOP, FARTYEW, IS ETHICT IN QUEZONICHY

DATE OF THE STATE OF THE STATE

ENOR. LEO S. DEL ROSANDA



RODOWERS APPROVAL

HON, NA, JOSEFINA B, BELMONTE

EFYMNOLOGICAL DECINORY

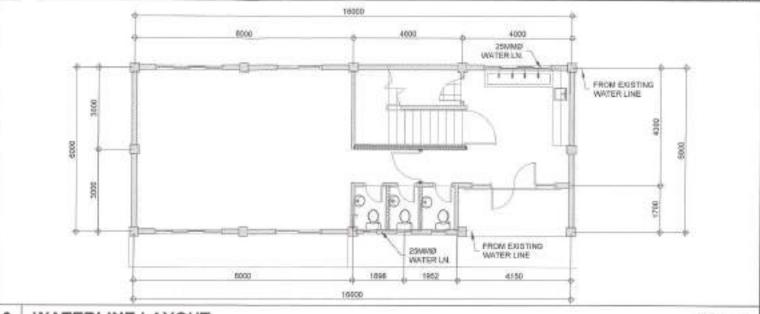
AR-07 07 10

CHECT NO.

GENERAL NOTES:

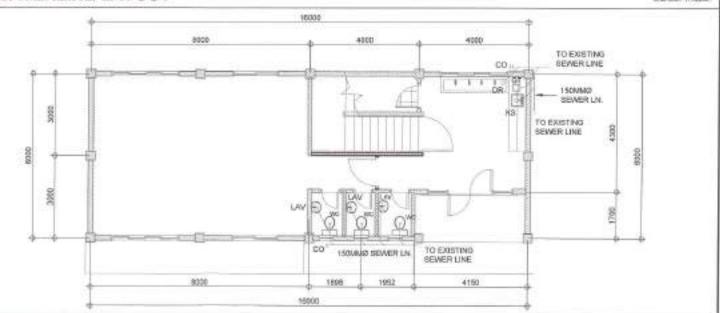
- 1. All plumbing sorts and materials indipated have sorted by compiler to the provisions of the latest edition. of Natural Planting Code, the rules and regulations of look sufranties concerned, the rules and regulations of local utility comparises and the possistens of the lead developer when wal where
- The planting by suit is only degranments; pipos, electrons and check valves shall be consessed as much as possible. It is not intended to show the actual all research of the piper and fatures in the drawing. that all the pipes and flatures whall be installed as and where indicated. Are relocation will require proper execution in relation with other tesies.
- The plumbing contractor shall varify all existing utilities at the site and shall coordinate this wark with other insies.
- Pipes shall not be entertial in structural mentions unions otherwise specified or allowed.
- Minimum alogo for hardcontal power lines shall be I'W and for drain lines shall be 5%.
- Proposed plumbing utilities shall confirm with the actual booksh, depth and invert elevation of all existing appointables.
- Correction of fintures to object and fittings shall be expecting to correlate each specifications.
- All foot drains shall be verted individually.
- All clean out terrules stad be flush-incusted to well and shall be provided with potential sever open. Do not install floor other; outs existed at lines on grade and service gross not subject to helf is:
- 10. All underground G.1, pipes in direct context with soil shall be provided with two (2) costs of protective for covering and ungoed with jule staff, thoroughly acalved in far or expirely.
- Proxide want stock and want pipe thre mail of cost into sent to weight an required.
- 12. All sost from pipes shall be of approved quality and GJ, pipes for water denitories lines shall be School so 40 U.S. standard weight.
- Provide gate velves to all water supply fines to futures.
- 14. All hit water lines shall be provided with peopur insulation where exposed.
- 15 Af Individual transfer to Situres or group of France and/or equipments affect to provided with versheribers prospeed vertical pips extensions of directains as drawn.
 - H = 400 mm for 19 mm Ø end larger
 - H = 300 race for 12 mm (F and smaller
- All hope biblis shall be 19 min @ (3/1" (3) shares otherwise indicated.
- Insist pipe of suptic test is 50 into higher than the sigher pipe which is 10 mm higher than the outlat pipe.
- All pluriting works setd menser of construction shall be under the direct supervision of an ignit and duly I bernied Minister Plantiser or Registered Sonite y Engineer. Any decorporates found in your shall be notified to the same person

| 3 66 | GREAGETRAP |
|----------|----------------------------------|
| -4- | UNION PATERT |
| | CHBCICVAEVE |
| Asi. | SURDING SOWER |
| 60 | BUILDING DISKIN |
| ft. | WASTELINE |
| 401100 | AREA DRAIN / CATCH BASIV |
| 10 | FLOOR DRAW |
| | DOMETER |
| | MURETE LINE |
| | MATERIANE |
| | GATE WALVE |
| 00- | DECK DRAIN |
| 133 | CLEANOUT |
| | PREDOWN |
| | FIRE UP |
| deli | MULMETER |
| W. | GATE WICKE |
| O | AREA DRAWLI GATCH BASIN |
| Mr | MATER CLOSET |
| Life | LAUKTORY |
| MH | MANHOLE |
| 18. | HOSE BBIL |
| _ | STORM DRAWLINE |
| | VEHTUNE |
| 640 | VEHT ABOVE CEICING |
| DF (HDP) | CONCRETE RIPE / HENT, OCHO, PAPE |
| 100 | VEMT THRU ROOF |
| 0 | DESCRION OF PLOW/ BLOPE |



WATERLINE LAYOUT

BCALE: 1:300M



GENERAL NOTES & LEGEND

SANITARY LINE LAYOUT

SCALE: 1: 100M SHEET NO.



Republika ng Pilipinas Lungsod ng Quaron CITY ENGINEERING DEPARTMENT STULL LOWER

PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF FAIRVIEW DAY GARE CENTER

SPOY, FARNEW, ISSURED & GLESTINGST

TOTA OF DALES STATE DECREE OF THE

REWISHON NO

ENGR. L'EC S. DEL ROBARIÓ IDIO, FLAM NOS PROSPINISCENDOS



RECOMMENDING APPROVAL.

BEHERAL ROTTER LAST

HON, NA, JOSEFINA G. BELMONTE DITH WATCH, GLECOHOLY

APPROVED BY:

LIBORACIE WATERLINE LAVOUT SANTARII (AM LAVOUT

тизгиод тавея



GENERAL NOTES:

- II.J. ELECTRICAL VIDENCE BANA, SE CONC. IN ACCORDANCE WITH THE IMPOSSION OF THE LATEST EXPLOYED. ISSUREDA, DODE THE WAS ASSOCIATIONED OF THE LOCAL CODE ENTORGIAGO AUTHORITIES AND THE RECORDING AS THE LOCKLE NOWER AND TELEPHONE LITELY COMMANY.
- 8. THE CONTRACTOR SHALL SETLINE A LL PERSON HAVE ALL THAN REQUIRED FOR THE VERSON ALL THIRD, RESPONDED DWER FACUUM FIRE ENGINEERS, FRAC COMPROVED OF SCIENCIA, IMPROVEMENTAL AND PROVED ON THE PROPERTY OF SCIENCIA AND PROPERTY GOVERNMENT HUTHORN BISHOR COMPLETEDS OF MORE.
- 2. Aut exercises revision carciars made of the compute and the particles introduced with automorphism. Et also discontinger CONTROL CLUMPS SVEW TO MICHAETER
- 4 PRILIFORD BALLER WOYCEDEY THE CONTRICTOR WINNERS RECOSSARY TO PROJUST HIS SYMP FROM IT THEIR ARE NOT INDICATED INVITATIONAL PLACEMENT IN THE LIBERT WHALL BY TORREST AND DATES OF THE CODE WILL WHATE IT. 609NF OHER CRAINFER TO THE INSTRUMENTON APPROVAL PREPATO PREPATOR LEGISTON OF PLEUSIPER WAY, NO APPROVED BY THE ENCHOLOGY PRODUCTS AND MAD AND ADD FOR STATE (SO THE MADE IN THAT
- 8. ALL POWER OUTLIETS: JOHN WITCHES BALL SE DECKNOWN TYPE WITH INVOICE, 9,015 DOD 2501
- 8. PROVING SPECIAL PARTY CORRESPONDED TO A DESCRIPTION OF THE CASE OF THE PARTY CASE
- F. ALE NET WILLIO CONDUCTS, OWENETS AND COLUMN DATE WALL BE PROPERLY GROUNDED AND ROYCEST.
- II LIN DOCUMENOS METED ACIAMAN FORMAN ANALAMANTE TRAVERSI NALAMENTA PARA PROTECTION PROCESSOR ANALAMAN ANALAMAN

RECEPTACLE OUTLIT - 300 NW AVY JOSENN JACKS WORKING COLUMNS. CONTRACTOR - WARREST PARTITIONS . HERSEN APP

- PRINTED TO RECOVARION, PLANSING ANY PIPE PROTECTION DEVANINGS FOR ENTHING HIS LOCATIONS OF SUSPINIOR AS INCL. AS THEIR CONTROL BUSINESS IN TRECH SE AND OR SHOWN LANSER THEIR SECRETARE SECTIONS.
- TO ALL WASCINGS TO BE USED BY MULLING THE BEST QUALITY. UNIVERSITIAN REPORTED.
- 1. THE DRAWNERS ARE INTERPRETATIONS ARE INTERESTED FOR THE BASE OF A SALE AND THE PROJECT BUT TOTALD RECEIVABLE VIRGINATED BY CHARLES ACTUAL TOCK TORK LEVEL, AND DREAKEDS OF THE SQUIPMENT THE CONCRECTOR OF HERMAN RECORDERS TO MAKE WASH ASSAURTMENT AT THE JOSSESS OF DON'T DEL DISCHARGE. MOTOR KAR COVERNO BY ACT IN THE DOMOROUS
- III. ANY EXCEPTANCE RETVESS THE FLARS AND SPECIFICATIONS SHALL BE DROUGHT TO THE ATTENDOSOF THE SAMERAKK FOR CLARK DATION OCCUPA-
- II. AL LIGHTEG RED CORRECCEDITAT DECETE EN LISTE DE LEUR DEVINT COPPERADE LEURS C'HERNE HEIDE. WHEN REST TO WELL BY THE THE TO ME TO SEE THE STATE OF THE THE THE THE THE THE THE TO THE TO THE TOTAL OWN.

Life Freeze Lair of Vittings REVISAL DIRECT GNOLED GREEN

15 KOREK WIRE, GALTERNI, ENGLOSIERE BRAIA DE TRADFIGHTED FREMENDE, WITH THOMESIA REPOLLEMEN WARMANIETH OF THE WOLDT BURNING BYOLD

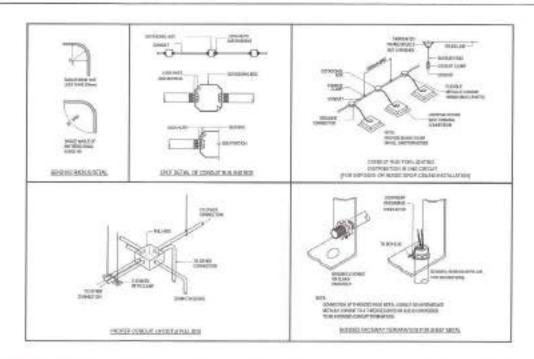
OF TO RECLUDING 10140 MM DA TRANSFED WITH MITSLAND REPORT AND TOPONS OVER 100.40 AM RET HOT OVER 467.00 TA TO AMERICANT HARTEL PRIMER BYOSP AND TO ACOUST DVBH 40 CAD BM BAT 1001 DV6 K 150 IMB DATE PARKED WITH WEIGH, PRIMER BYORF AND TORGOT. DAMESTIC AND ISA KONAMPED WITH METAL PRIMETHER DOOR AND TOROGAT

- HE ALL RESTRICTED AS ROOMS HEREIN THALL BE EXCOUNCE OF EXPERIENCED MEANURESHING CREEK PLANSFARMAN FOR FAUL THE LIGHTED GLECTRICAL CHEMISTY AND A DULT NO REPORTED HEIGHT FROM LEGISLATIVE TERMS FOR YORK SHALL SE HEATLY PLACED SCENARLY PARTENED NAC PROPERLY REMINED.
- H. THE OF SERVICE SETS WERE SHOULD STREET HAVE TWO SHELT SERVICE SHOULD SERVICE SERVICE CONTRACT.
- 17. CONCURRENCE CARRIENAL THERE BE ROPE THAN THE EQUILABILITY OF YOUR QUARTER OF CHE ANY ONE FIRE ALL CONCURSIONS WALL BE PRODUBLE BY USING WORKLIST BOARDING MANAGED DAY BY DURING HE EVACORDINGS. TO THE GOOD REQUIREMENTS.
- 15 OF DESCRIPTION OF EXCISION CONSTRUCTION WORK INSULATION PROBLEM WITH INSULATION PROPERTY AND THE REAL PROPERTY AND THE PROBLEM PROPERTY AND THE PROPERTY AND BCPDFORMED OF THE CONTINCTOR INCLUMED THE REPALATION TO DE REPALATION DE CETALACOR CARRANTECION. BY NO SUBSECTIVE REQUIREMENT OF VARIABLE PROPERTY OF THE WASHINGTON FOR VARIABLE OF THE VARIAB MAKEN NOT BE INCHESTANCE OF AN A CHARGE CONTRACTOR OF CONTRACT RESISTANCE SHALL NOT EXCECUT DEADS.

| -0- | 150MM6 LED BULB 18WAFTS |
|--------|--|
| | 2X18MATTS TROFFOR LIGHT, 1200MM X 600MM RECESSED TYPE |
| 0 | LED PW LIGHT RECESSED TYPE 18W/TS |
| ge. | SINGLE POLE SWITCH (LIGHTS) |
| 25404 | TWO POLE SWITCH (LIGHTS) |
| 25oo/* | THREE FOLE SWITCH (LIGHTS) |
| Ф | DUPLEX CONNENDE OUTLET |
| | FWEL BOWD |
| (m) | HOVE BUY CROUT BROWER |
| qqqo | MALL FAM |

LEGEND AND SYMBOLS

SCALE NTS



GENERAL NOTES

BCALE: NTS:

MISCELLANEOUS DETAILS

SCALE: NTS BHESTHE



Republika ng Piliptous Longood ng Quanton CITY ENGINEERING DEPARTMENT PROJECT TITLE:

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

DRICK, PARANGON, GRETTINGS E GREETENCHTY

FOR CA DATE: YOSHER

REVISION NO.

DECEMBER IN THE

DWGTTED OT ENGR. LEG S. DEL ROGARIO

ENGR. ISAGAN R. VERZOGA, JR. OC OFF PERSONS OF WITHOUT

PROCESSION APPROVAL.

HON, MA, JOSEPHA G, BELMONTE

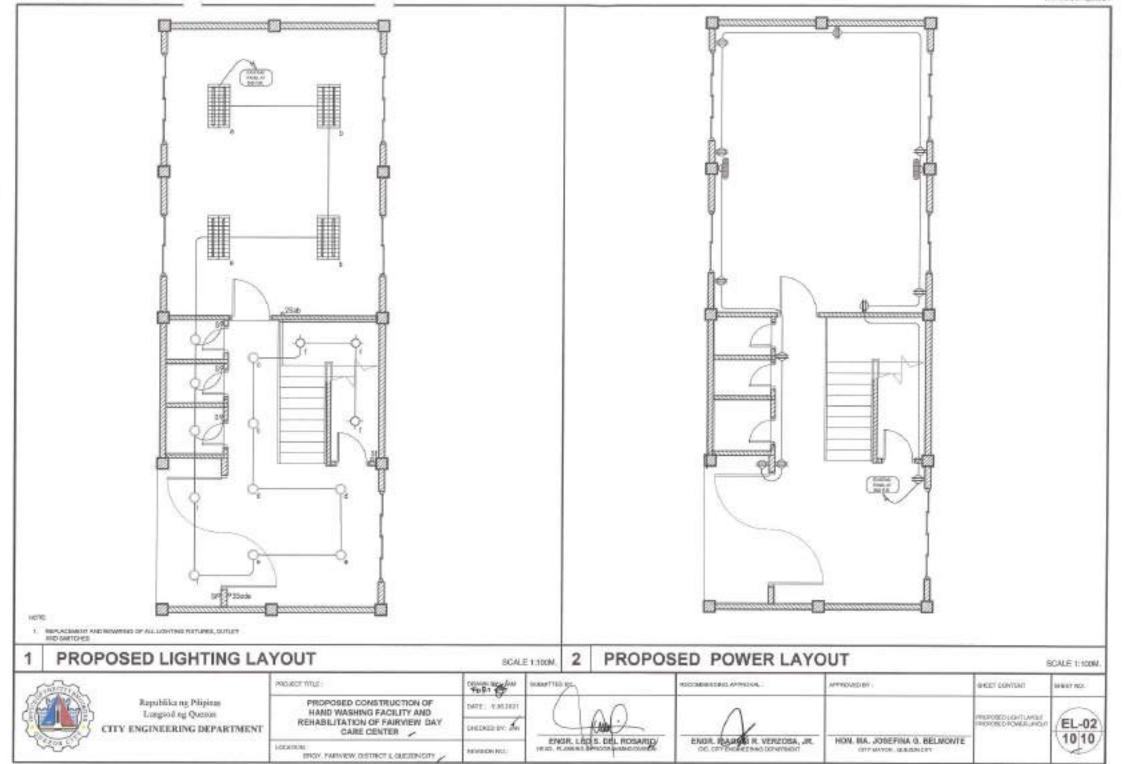
CITY WAYNER, CHIESCH CITY

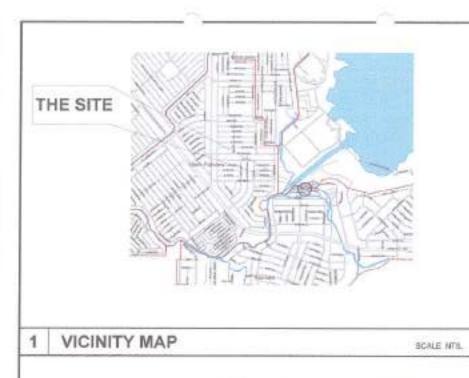
APPROVED BY

GENERAL HOTES UNDEND & SPINSOUS MINOR, LANGOUG DETALK

BHEST CONTINUE







ARCHITECTURAL ART VICINITYMAP LOCATION PLAN SITE DEVELOPMENT PLAN APPER SECOND FLOOR FLAN (EXTERNO) RECOND PLOCE PLAN (PROPOSED). AFET ROOF PLAY REFLECTED CE LINGUILAN ARIA FRONT BUSYATION REAR ELEVATION LEFT SIDIT BLEVATION LONGITUOINAL SECTION THRU A ARK | SOHODULE OF DOORS SCHEDULE OF WHICKE LETTERING DETAUS PLUMBING PL-1 DENERAL NOTES PLUMBING LATIOUT ELECTRICAL EL-1. GENERAL NOTES CEORGIO AND BYMBOLS BCHEOULE OF LOADS ALC: SEEGN DIAGRAM MIRCELLANDONS DETAILS: FLG. LICHTING LAYOUT POWER LAYOUT

TABLE OF CONTENTS



-4

LOCATION MAP

SCALE NTS

3 SITE DEVELOPMENT PLAN

SCALE 1:150M.

residences

6.00 METER WIDE ROAD

Republika ng Pilipinas Langsod ng Garzon CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF SAPAMANAI DAY CARE CENTER AT SECOND FLOOR

STREET, SURFFICE METERS IN OLIGINATIVE

DE ONTO TRUETO

AT CHECKTO PA JA

REVERSINO





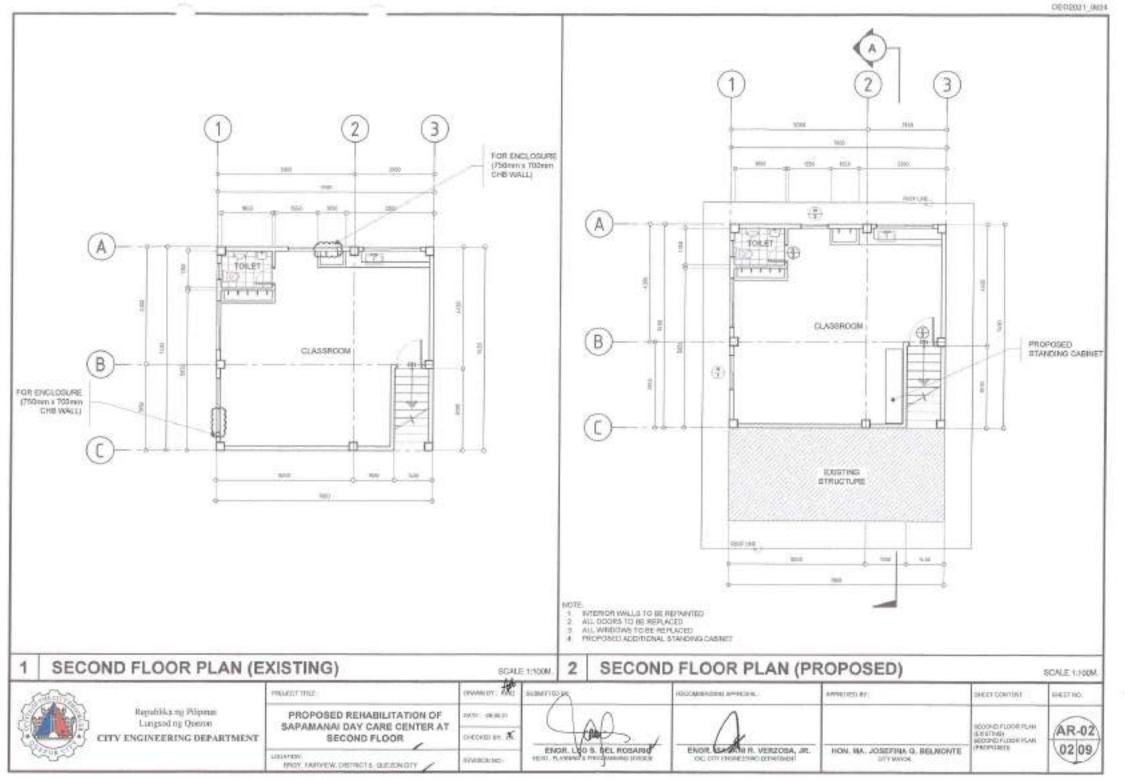
PEDGEMONDHAN APPROVAL:

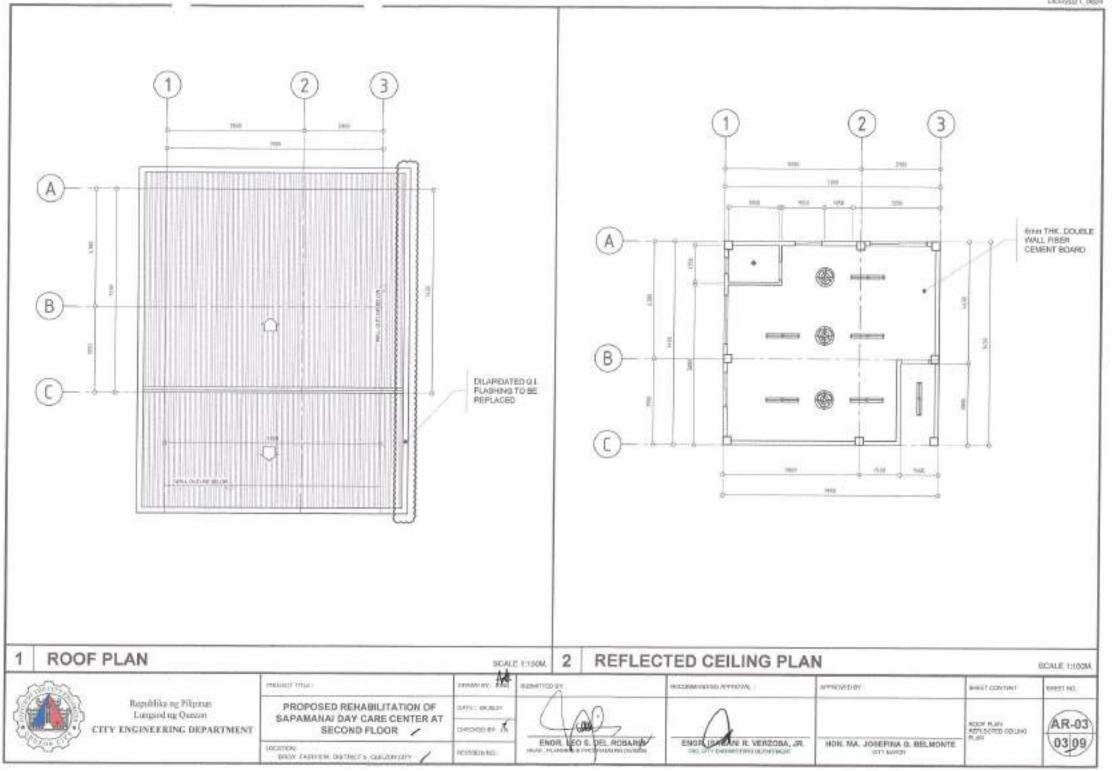
HON, MA. JOSEFINA G. BELHONTE
GTVANON

THEF WOO TENNS

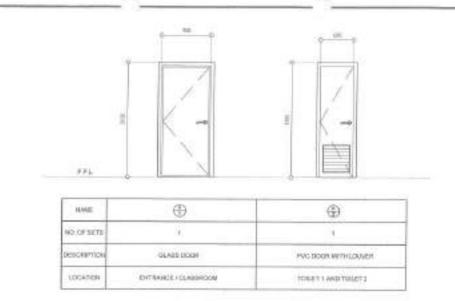
AR-01

HEET NO.

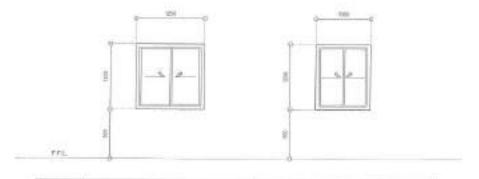




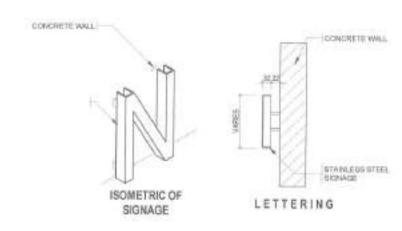




1 SCHEDULE OF DOORS



| SEAMS | (1) | ⊕ |
|-------------|---|---|
| RECOFERED | | |
| Discription | ACLIBIALISH FRAME ROWDER CONTEST SLIZZAND PRINDOW WITH New THY SLIZZANGLASS | ALLIMINUM FORMS: POWOER CONTEST BLISHIS WHISTON WITH BINN THE CLEAR GLASS |
| SCOATER | CLASSROOM | REPORTER / HAND WASHING AREA |



2 SCHEDULE OF WINDOWS

SCALE 1:50M

LETTERING DETAILS

SCALE 150M.

Republika ng Pilipinan Lungsod ng Quaxen CELY ENGENEERING DEPARTMENT PROPOSED REHABILITATION OF SAPAMANAI DAY CARE CENTER AT SECOND FLOOR

DROY, FAFRICW, DRITHET'S , DURANIEST /

ENGR. LEG S DEL ROSANSO

ENGRAL GAM R. VERZORA, JR.

PESCHARTING AND APPROPRIES.

HOW MA. JOSEPHAN G. BELMONTE

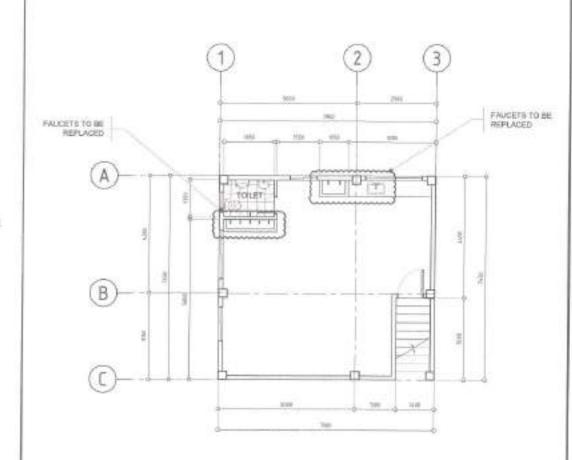
APPROVIDENT

SCHEDULE OF ECONE SCHEDULE OF WARCOME LETTERHOLD SCHED

SHEET CONTENT

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

LOCKSON



GENERAL NOTES

SCALE NOS.

PLUMBING LAYOUT

SCALE NTS,

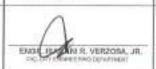
PL-01

Republika ng Plipinas Langsind ng Quanan CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF SAPAMANAI DAY CARE CENTER AT SECOND FLOOR

BADY PARKETS DATESTS DEFENDED

DATE BEST AND SHOP THE BY THE





SCOWNERSHIE APPROVAL

HON, NA, JOSEFINA S, BELMONTE

PERCYCLES.

ADVOTAL HOTES DOEND AND SYMBOLE

DARLINGS COMPANY

- ALL ELECTRICAL, MORSO BHALL DE DONE SE ACCORDANCE WANT THE PROJECTION OF THE LATEST SECTION OF THE PROJECTION OF THE PROJECTI
- THE CONTROLTER SHIPL BECOME ALL PREPARTS MET HIT ALL PIECE REQUIRED FOR THE WORK AND SHALL FEMALES THE OWNERS THE CONTROL FOR COMPUTE OF THE PROPERTY BUSINESSES, HERSOTTON AND APPROVAL FROM PROPER CONTRIBUTED THE PROPERTY OF COMPUTE ON ITS WORK.
- ALL EMPLOYED DEVANCE CRICATS SHALL BE PAY CONDUITS AND FOR EXPONED STRUCKLATOR IS ALL ITS INC GLARACTED BY CONDUIT CLAMPS EVERY TO MILLING TOT
- PALISHED BALL IN PROTECT WE GOTTHICTORY EXPLISIONATE OF FOLLAST BRIEF PALISO EVEL IN THESE HIS BOTH DESCRIPTION OF THE PLANS. SOTHER OF ALL PALISODES SHALL BE COMMUTED BRIEFOON THE COCK PROLUMENTS. SUBJECT SHOP DEVELOPED TO THE SPOTMENT FOR APPROVAL, PRIOR TO PROJECTION OF DELECTION OF PALISONS SHALL BE APPROVED OF THE APPLICATIONS AND REAL HE RESIDENCE ON THE "REQUEST" RUN.
- E. ALL POWER OUTLETS AND ENVIOLES SHALL BE SPOLIFESHED TYPE SITTLE PARALLEL SUCTE FOR 2001.
- 8. PROVOS GROUND FRUIT OURSENT INTOSSUPTOS GROUNT BEGINS FOR LOUDS WARRED GROW THE PLAN.
- 2 ALL METALLIC CONSULTS, CASHE TO ARC INQUIRMENT TOWARD, SE PROPRIES Y GROUNDED MAY INCREME!
- 8. URLING CHIEFWARE HOTED, ROLLETING HEIGHT FOR HALL HOUNTED DOVICES IN VAL. 85 AS FOLLOWS:

RECEPTABLE OUTLEY - 300 MR APP , IT SOME ABOVE WORKENS COVERED.

TELEPHONE OUTLET - MICHINATH

CATY OUTLET - BIG ME AFF LESHTING SWITCH - SAID ME AFF

FRANK HOMEO - 1800 NEW ART

- METER TO ASSOCIATED, PULMERS ARE THE PROTECTION DRAWINGS FOR HASHING AND LOCKTORS OF EDAMENT AS HELD.
 All THEIR COSTROL, REQUIREDS AS OFFICIFIED AND OR SHOWN USED THEIR RESPECTIVE SECTIONS.
- DV. ALL RATIONALS TO HE LIBER WAS LIKE OF THE BEST COULTY; SHOULD NOW AS SAGESTED.
- 11. THE DRAWINGS AND SPECIFICATIONS ARE INTEREST TO PROCEST OCCUPANT, CAPOUT AND DROWN OUT, MACESTONISTICS THE PROJECT SHIP DO NOT RESIDENANCE WAS A TERRORISED ACTUAL, LOCATIONS, LOVEL AND DETENÇES OF THE EXPERT THE CONTRACTOR IS HEREBY SOCIATION TO MINISTER AND CONTRACTOR IS HEREBY SOCIATION.
 THE PROJECT AND CONTRACTOR IS HEREBY SOCIATION TO MINISTER SHOP ADMINISTRATION AT THE ADMINISTRATION OF THE ADMIN
- 12 AWERSTRAND WITHOUTH RUNK AND OPECANATIONS DIVILLUE DROUGHT TO THE ATTOMICS OF THE ENGINEER FOR SUMMISSION WITHOUTH
- 13 ALL DONTHER REP COMMERCES SUITET CIRCUITS SHALL MESS SO, MIR. THANKS COPPER WIRE HAS DEFINED RETTER MEMORI DZE OF WIRE SHALL BE 13 SE, MIR COPPER WIRE, ALL WIRES AND CARLLES SHALL BE COLOR COOSD AS POLICIONS.

LINEY - DED LINES - VELLOW NULTRIC - DHITE HROUND - CHEEN

16. BOXES WERE SUITERIN ENGLOSIVE SHALL BY IMPRICATED FROM STEEL WITH THORIESS AS FOLLOWS ANXIOLISTING THE RICEST SUPPLIES STEEL.

UP TO HICLUDING HEARING TWEN 18240 MM BUT HOT DIVER 467.06 TWEN 48Y.20 MM BUT HOT DIVER 752 MM

DAMES THE MAN.

OR TRAFFED WITH HETAL PRIMER SPORT AND TOPODAT DA 14 PARTIES WITH METAL PRIMER SPORT AND TOPODAT DA 12 PARTIES WITH METAL PRIMER SPORT AND TOPODAT DA 12 PARTIES WITH METAL PRIMER SPORT AND TOPODAT

- 10. ALL ELECTRICAL WORKE HEREN SHILL HE ERCLITED BY CONTRINCIONER LINEAR THE DIRECT ELEVANDED FOR FILL TAKE LICEASED ELECTRICAL SHOWIET AND A DILLY ACCUSED ELECTRICAL CONTRACTOR BY POAR, WORKE BHALL BE DEATLY PLACED, SECURELY FAR THEIR AND PROPERTY HISTHED.
- 16. TWY OF BEHALD BY NAVIGE BY ALL BE BY BUT PHYSIC, THE WIRE PLUS OF DUBY, WE HERTZ, SEV AC NOWING.
- ADMORTS IN HOUSE, SHALL THERE BE MORE THAN THE EXPLANATION OF YOUR QUARTER BRIDGS IN ANY OW, BUILDINGS OF YOUR PLANT BY THE ADMORDING TO THE COST MICH.
- 10. LIFON COMPLETED DE DISCONCIA, CONSTRUCTION NORM, HOLLETICA DESIGNANCE TEST AND FUNCTIONALITY TEST ENAL, SE PERFORMIC DE THE COLLETACTUR RECURSIO OF THE SECTAL LIFEON TO DE REPORTED HISTORICA DISCONCIA DE PORTE MATERIALIS. DY THE OLICIDA SITY EXPRESIONALIS DEPARTMENT REPRESENTATIVE. THE ORDINAD PROSPANCE FOR LICETRICAL SITYEMS. SHALL NOT DE RESIST THAN I ORDIN COMPUNE CONTRACTOR PROSPANCE SHELL NOT EXCRETE ORDINA.

| -0- | 150WW# LED BULB 18 WATTS |
|----------|-------------------------------------|
| | ZXIAW TROFFER LIGHT |
| | 15 LED 1200MM 28 WATTS |
| Ф | DUPLEX CONVENIENCE OUTLET: |
| 0 | ACU OUTLET |
| | PANEL BOARD |
| °8 | ONE GANG SMITCH(LIGHTS) |
| °Jw3Sabe | THREE WAY THREE GANG SWITCH(LIGHTS) |
| D88 | SELECTOR SWITCH(FAN) |
| (a) | HOME RUN GROUT BREAKER |

LEGEND & SYMBOLS

SCALE NTS.

PANEL: DP-DCC

LOCATION: DAY CARE CENTER (EXCERNIG PAREL)

| CKT | LOAD DESCRIPTION VOL | VOLTS | VOLT | EDAD | | SIZE OF | |
|-----|---------------------------------------|---------|--------|--------|--------------------|---|----------------|
| NO. | | William | AMPERE | AMPERE | | WIRES | CONDUITS |
| 3 | II - LIGHTING OUTLET + 3 - CREIT FAIN | 238 | 1800. | 6.57 | 20 AT 2P, 90 LT ON | 2 - 3.5nm² THRN WIFE & 1-3.5mm² TM (Q) WRS: | WZSrm@(2) PVO |
| 2 | 5-DUPLEX CONVENIENCE CURLEY | 238 | 800 | 3.91 | 20 AT 2P, DOLT ON | 2 - 3.5mm* THIN WEE & 1-0.5mm* TW (5); WHE | H2bred (2) PVD |
| 3 | 1-ACH OUTLET | 230 | 1940 | 8.0 | 30 AT 2P, BOLT ON | 2-55mm*THHYWRE & 1-25mm*TW (C) WRE | H25mif()) PVS |
| 4 | 1-ACU OUTLET | 290 | 1941 | 68 | 30 AT 2P, BOLT ON | 2 - 5.5min*THEN WIRE & 1-0.5mm*TW (S) WIRE | |
| -1 | TOTAL | | 5630 | 24.48 | | | |

COMPUTATION :

IT = (3790/230 V)+(8.0 x 25%)

IT = 26.48 AMPERES

OVER CURRENT PROTECTION:

USE: 40 AT, 2P CB BOLT-ON

MAIN FREEDER:

APPROVED BY

USE: 2 - 8.0mm² THHN WIRE & 1 - 5.5mm² TW GROUND WIRE IN 25mm® PVC PIPE

1 GENERAL NOTES

BOALE NITE

3 SCHEDULE OF LOADS

BCALE NTS.



Republika ng Pilipinas Langard ng Quezon

CITY ENGINEERING DEPARTMENT

PROJECT TOLE :

PROPOSED REHABILITATION OF SAPAMANAI DAY CARE CENTER AT SECOND FLOOR

 ONTE ONDE

REVISED NO.

ENGR. LED B. SEL ROBASION

ENOR ASAMAN R. VERZOBA, JR.

RECEDIMENDING APPROVAL

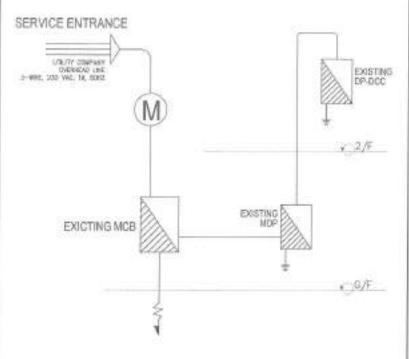
NON, MA. JOSEPHA O. BELMONTE

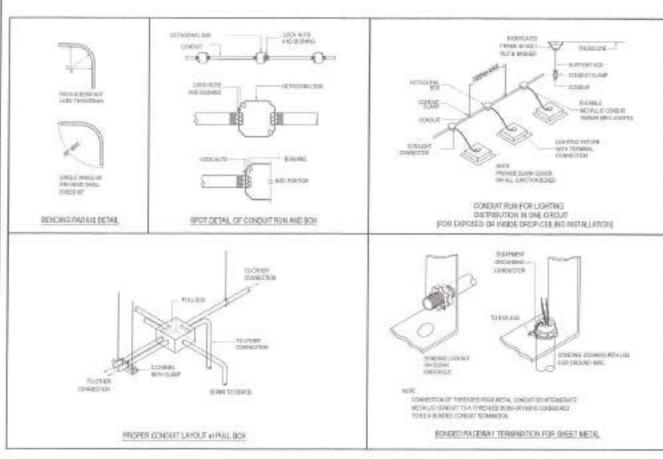
DENETHE NOTES LEGISTER AND THINKS IN ROSERVALE OF LOSER

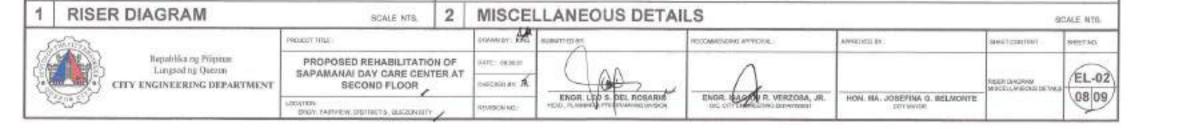
DALLANDO LITANI

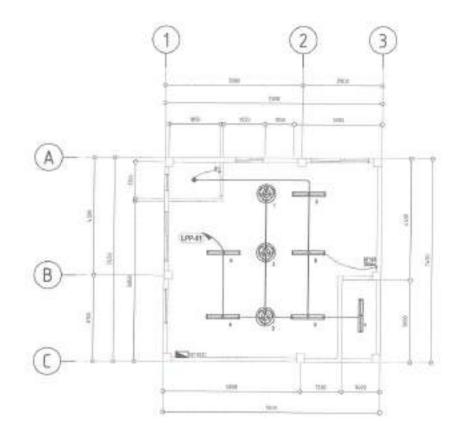
MAIN: 40 AT, 2P IN NEMA 1 ENCLOSURE

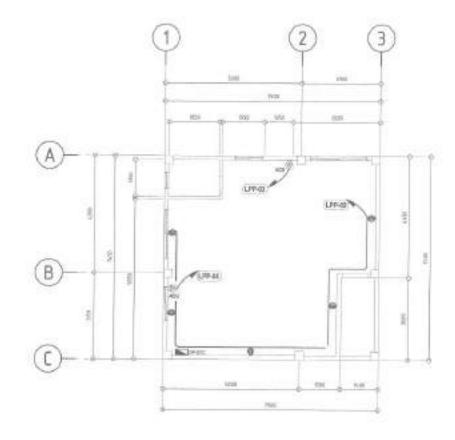


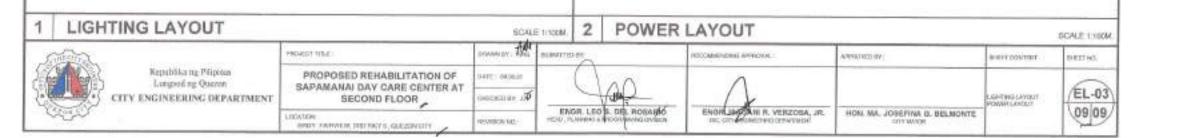


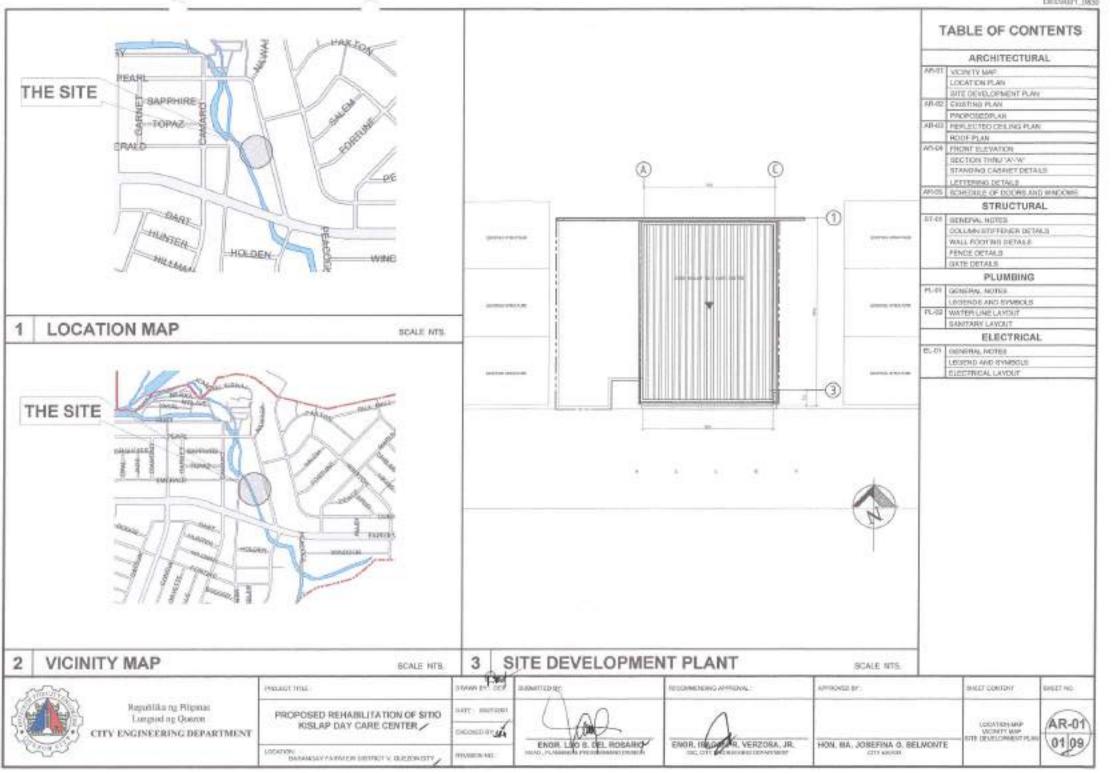


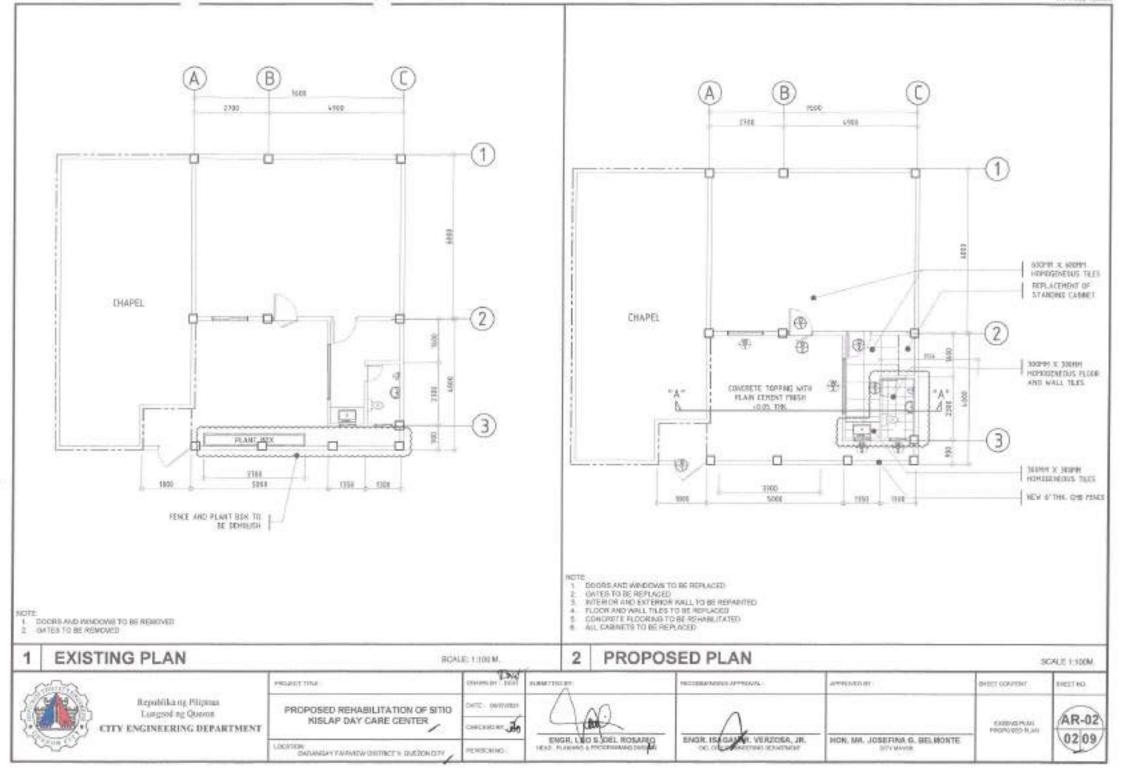


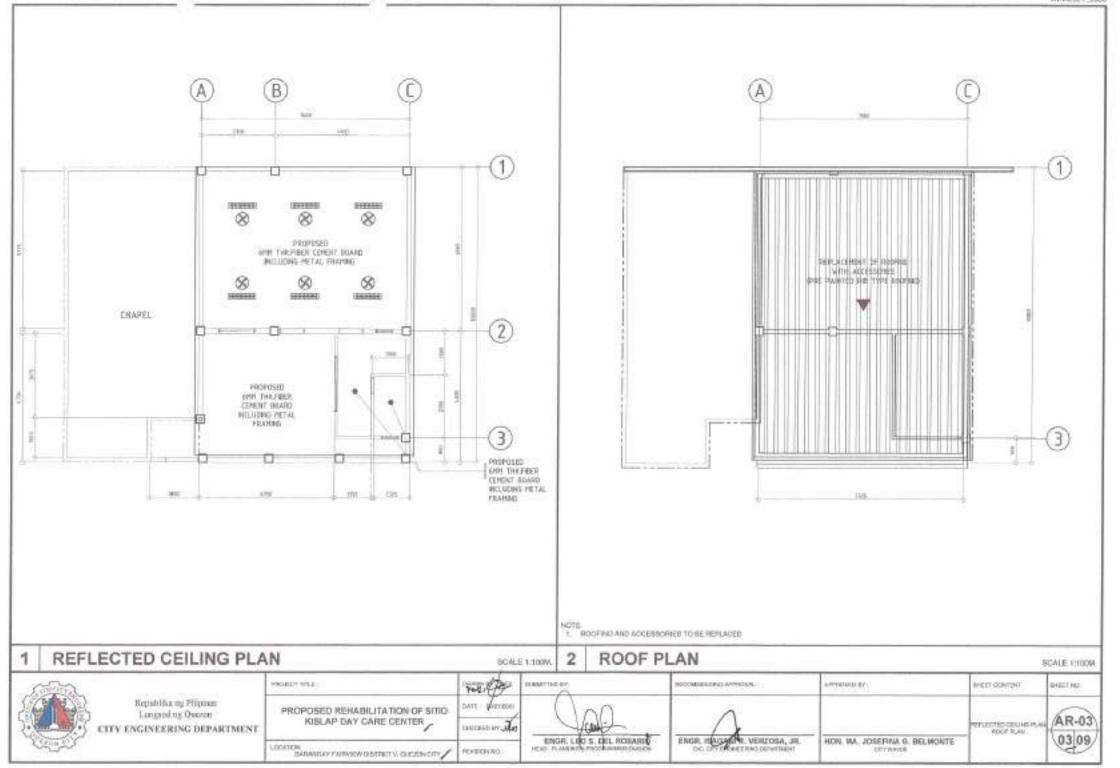


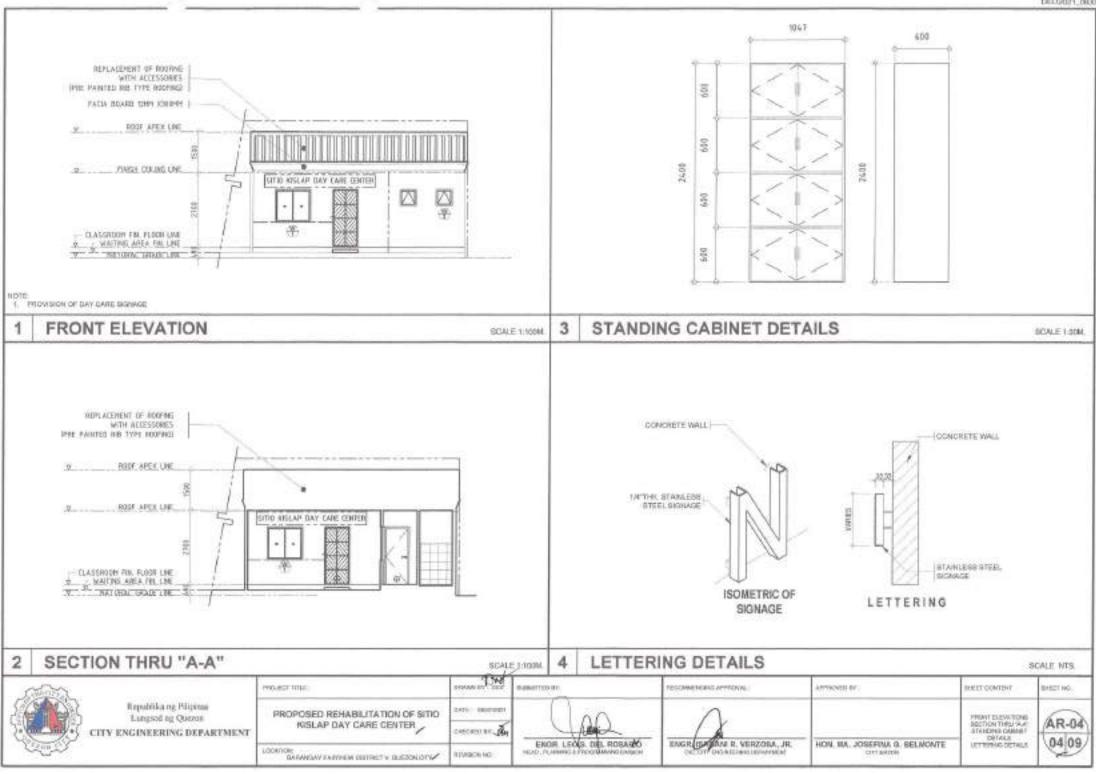


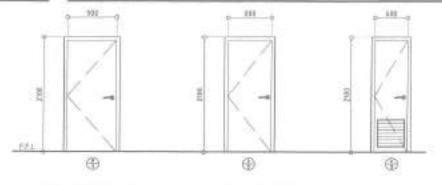




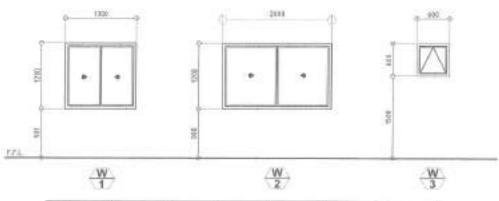








| IMME | (1) | 0 | ⊕ |
|-------------|------------------------------------|----------------------------------|----------------------------------|
| HO, 07 SETS | (d | 27 | 31 |
| DESCRIPTION | PANEL COORS | FAMEL 20028 | FVC DOER WY LOUVER |
| COCATEN | (LASSRIKI) | KIYDHEK | 704.67 |
| HANDWAFE | STAIMLESS LEVEN TYPE DOOR HARDS | STABLESS LEVER TYPE DEEP HASE | STANKESS LEVER TYPE DOOR NAME |



| ww. | *** | • • • • • • • • • • • • • • • • • • • | 9 |
|---------------|-------------|---------------------------------------|--------|
| WO. OF SETS | 1 | 31. | 1.7 |
| BESCRIPTION . | SUDNE WROOM | SURING WINDOW | AWNE |
| LOCATION | CLASSROOM | киснек | TOILET |
| HAROWARE | | | |

1 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:50M.



Republika ng Pilipinas Lungsid ng Queson CITY ENGINEERING DEPARTMENT

| 1 | District Hast |
|---|--|
| | PROPOSED REHABILITATION OF SITIO KISLAP DAY CARE CENTER |
| | LOCATON DATAMENT FARMAN THRITTEN CANADONICS / |

| | DAVING ON THE | iu |
|---|-----------------|----|
| 5 | DATE DISTORTE | Ī |
| | CHECKED BY JA | Ì, |
| 7 | HIMODORE | , |

| | 9 | | |
|------|--------|-------|---------|
| - 0 | 1 | 00 | 10 |
| 1 | 10 | (the | 1 |
| make | B > 66 | e net | BORABIO |

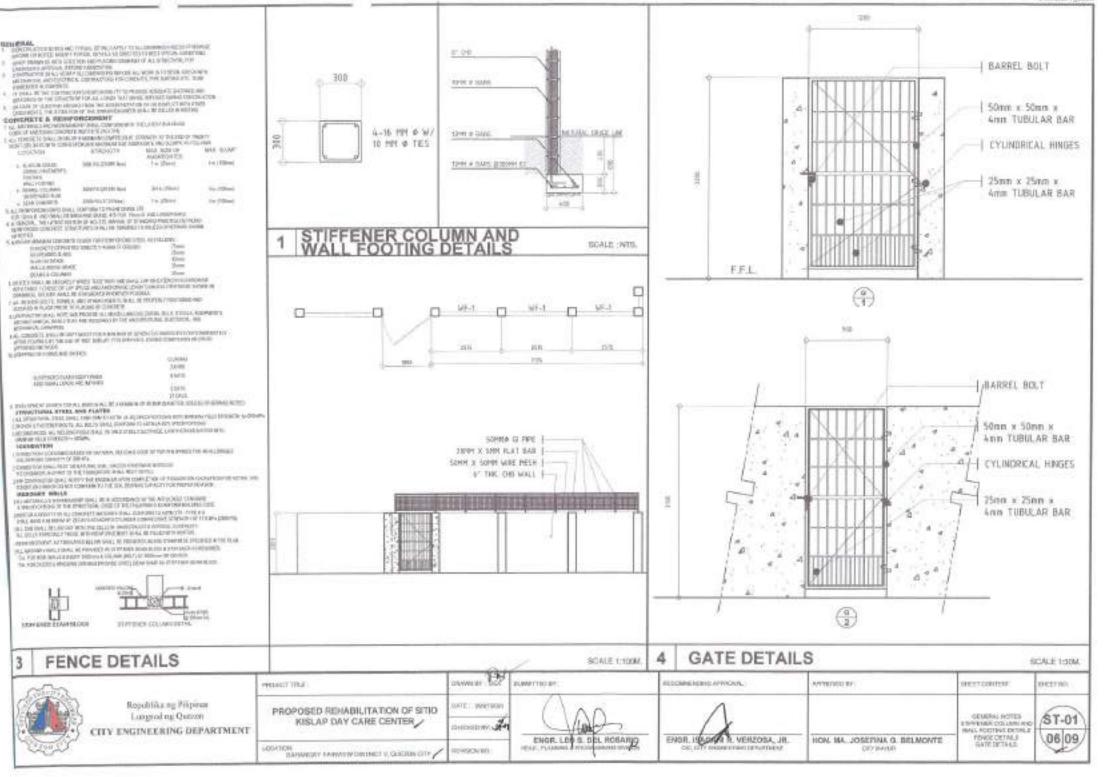
| ACCIONACIDORGI APPROXIN, I |
|-------------------------------|
| 2 |
| ENDR. IMAGINO R. VERZOSA, JR. |

| | SCHEDULE MICH |
|-------------------------------|------------------|
| HON, MA. JOSEFINA G. BELMONTE | - And I |

APPROXICE BY

AR-05

PARTIMOD TERMS



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

PROJECT TITLE

PROPOSED REHABILITATION OF SITIO

GAPANGAY FARTHER OBSERVE OLEGANOTY

KISLAP DAY CARE CENTER

FIXTURES AND OTHER LEGEND

| FD RD | FLOOR DRAIN ROOF DRAIN | | | | | |
|----------|---------------------------|--|--|--|--|--|
| SHO | | | | | | |
| 411.11 | WATER CLOSET | | | | | |
| LAV | | | | | | |
| URI | URINAL | | | | | |
| KS | KITCHEN SINK | | | | | |
| BD | BUILDING DRAIN | | | | | |
| 00 | DECK DRAIN | | | | | |
| 000 | CEILING CLEANOUT | | | | | |
| FCO | FLOOR/GROUND CLEANOUT | | | | | |
| DB | DOWNSPOUT | | | | | |
| mm | milimeter | | | | | |
| a | mm DIAMETER | | | | | |
| SHD | SHOWER DRAIN | | | | | |
| CB | CATCH BASIN | | | | | |
| MH | MANHOLE | | | | | |
| - % | DIRECTION OF FLOW | | | | | |
| | GREASE TRAP | | | | | |

| - | UNION PATENT |
|----------|---------------------------------|
| | CHECK WILVE |
| 86 | BUILDING SEWER |
| -81 | BUILDING DRAIN |
| 99. | WASTE DNE |
| ADVIS. | AREX ORAIN / CATCH BASIN |
| 111 | FLOOR DRAIN |
| | DAWETER |
| | WASTE LINE |
| _ | WATERCONE |
| - | GATE VALVE |
| 00 | DECK DRAIN |
| -00 | CLEANGUT |
| | PPE DOWN |
| - | PPEUP |
| 10 | MILIMETER |
| Ge | GATE VALVE |
| | AREA DRAIN / CATCH BASIN |
| WE | WATER CLOSET |
| Ukr. | DOWNTORY |
| 364 | MANHOLE |
| 140 | HCGE BIBB |
| - | STORM DRAIN LINE |
| _ | VENT UNE |
| NRC | VENT ABOVE CELLING |
| DV / NOP | CONCRETE PIPE / REINF CONC PIPE |
| 119 | VENT THRU ROOF |
| 54 | DIRECTION OF FLOW I BLUPE |

GENERAL NOTES

BOALE NEED

LEGEND AND SYMBOLS

SCALE NTS. BENEFIT NO.

Republika ng Pilipinas Lungsod my Queens CITY ENGINEERING DEPARTMENT

SATE - DOSTROOM

HEORED BY

BARAST TREETO

ENGR. LED S. DEL ROSANG

ENGR. GAMAN R. VERZOSA, JR.

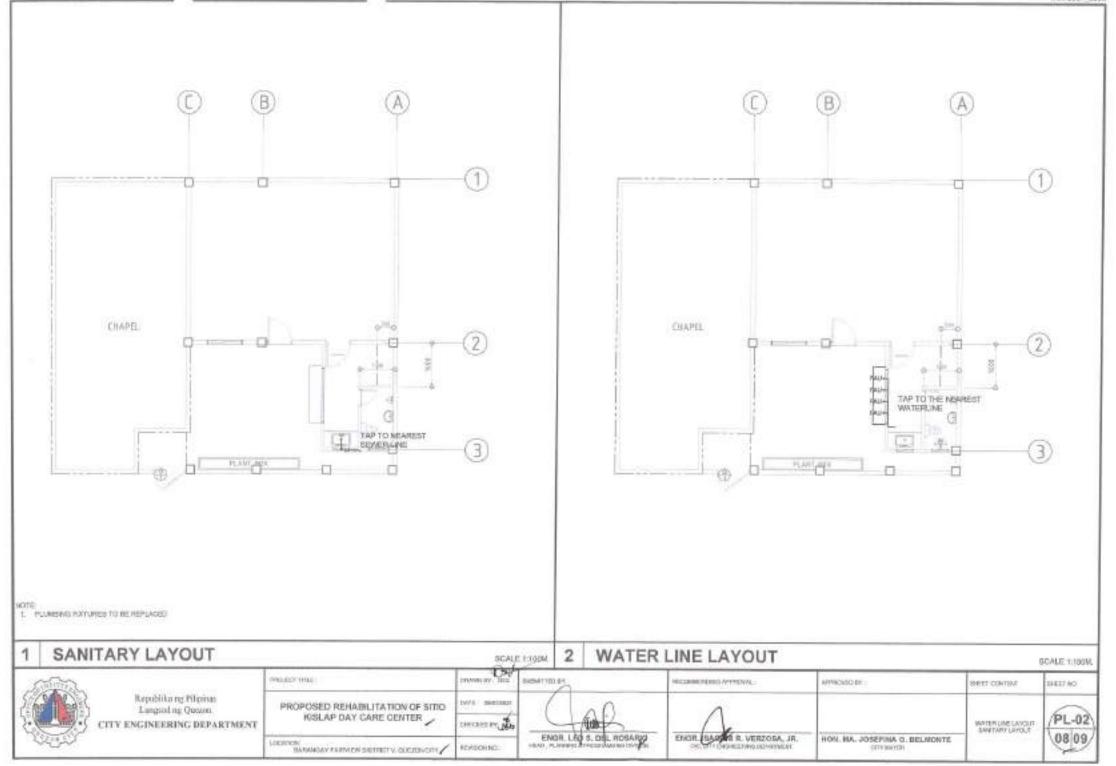
AND CHANGE SERVING NAMED OF STREET

HON, MA. JOSEFINA G. BELMONTE OTT MAYOR

APPROXIMENT:

PL-01

DESTRUCTION TERMS



- 6 BILL ELECTRON, WORKS SHALL BE SONE IN ACCORDANCE WITH THE PROJECTES OF THE LATEST SOTION OF THE BILL POSE. SUSCITION, CODE. THE LIMIT AND OPENINGES OF THE LOCAL CODE DISTRICTION AUTHORITIES AND THE REQUIREMENTS OF THE LOGAL POWER AND TELEPHONE UPLITY COMPANY.
- 3. THE CONTRACTOR BHILL SECURE ALL MIRROR IS AND PAY BUT PRES REQUIRED FOR THE WORK AND SHALL FURNISH THE CONSIST THROUGH THE ENGINEERS. HIRAL CENTRICATES OF FLORENCIA. REPRESENTAND APPROVAL FROM PROBLES SOWNERSHAM AUTHORITIES FOR COMPOUNDINGS MORE
- MULTIMERCOST STANCH CINCUITS CHALL BY THIS DOLIGIETH AND FOR EMPORTURE WITH THE MANUAL BY THE SUFFICIENCY. CONDUST CLAMPS (TVDRY 700 M LIMETURE)
- 4 FILL BOX 6 BHILL BE PROVIDED BY THE CONTRACTOR WHE REVER NECESSARY TO PACULTATE WHE PALLING EVEN IF THESE ARE NOT RESIDENCE ON THE PLANS. SERVING OF ALL PLANS SHALL BE CONSUMED IN THE COSS REQUIREMENTS. ILLINET SHOT DIVENIES TO THE SUBMEER FOR APPROVAL PRIOR TO PREPIOUS GOOD ONLY PLUSOKS SHALL BE APPROVED BY THE AND-ITECTION OFFICE AND WHET HE PERSONED ON THE THE BUILD PLAN.
- ALL POWER OUTLETS. AND SWITCHES SHALL BE GROUNDING THAN WITH ANNAULE, BLOTS FOR COLV.
- PROVIDE GROUND PAILS CLAREFUL RETERMAPTER GROUT BYDAMES FOR LOADS MARKED SHOT ON THE PLAN.
- ALL METALLIS CONDUITS, CASHICTS AND EQUITMENT SHALL BE PROPURE? GROLINGED AND ROTHORDS
- 8 UNLIES OTHERWISE NOTED, MODRITHO HEART FOR WILL NORTH DOWNESS SHALL BE ASSYSTANCE.

RECEPTAGLE CURRENT - NO MAI AVV. 155MIT ABOVE RESIDENCE COLLEGES TELEPHONE DUTCET - 300 MBEAPF DATY OUTLET + 300 links APP. DONTING SWITCH - 1400 WM AFF PRINCIPOWAD - HISOMWARF

- E. REFER TO DECHARGA, PLUMBER AND THE PROTECTION DISCHARGE FOR PATHOLIC DOCUMENT OF SOURWEST AS WILL AS THEIR COMPRO, SEGUENCES AS SPECIFIED AND OF ENDING LINCOID THAIR RESPECTIVE SECTIONS.
- FE. ALL MATERIALS TO BE LIGHT ID-ALL ISSUED FOR THE BEST OLDS MY. BRAND MYSS AS DANCED IN
- 11. THE DRIVANGE AND EVECTOR TERM ARE INTEREST TO PRESENT GENERAL ENTERT AND ERROR OUTLINE DESCRIPTION OF THE PROJECT BUT DO NOT INDESSARE Y INDION TO DESCRIBED ACTUAL LOCATIONS, LIEVES AND DETARCES OF THE EQUIPMENT. THE CONTRACTOR IS HUMBEY INCUSTED TO MAKE SUCH ADALETMENT AT THE JOSOFF HE LOCATION DECIMINES AND LEGISLA AND SIDVERNED BY ACTUAL PELLICOADTIONS.
- 12. MY DISCREPANCY INTRIBUTED THE PLANS AND DESCRIPTIONS BHALL IS BROUGHT TO THE ATTENTION OF THE CHICAGES FOR
- 13. AUL USFITING AND CONVENIENCE DUTLET CIRCLITE SHALL BE 3.9 AUL SHALL COPREY WAS LINLARS OTHERWISE WORD. SHARLAN RICE OF MIRE SHALL WE SEED MAY COPPER WHICH ALL WINES HIS GRIDES EVALUED COLOR-CODED AS FOLLOWS.

LEE THEO LIBERT HILLIAM NEUTHAL - WHITE OFFICIAL CHEEKS

14 BORES, WHE GUITTERS ENGLOSISE GHALL BE FARRICATED FROM EIGER WITH THOORIGINA AS POLICIONS

WAVENUM WETH OF THE WIDE OF BUFFACE STEEL

HP TO INCLUSING 152,40 MM

GA 15/TAMPED WITH HE THE PRIMER SPORY AND TORSOW?

CREEK 152-40 HAM BUT NOT CHARGE 457-30.

THE SEPARATED MICHIGAN PROPERTY AND SCHOOL TO GR. SZ PRINTED WITH METAL PRIMER EPEKT AND TOPOGAT.

CHES (SO 30 MM BUT NOT CHES TO ME CHES NO MM

GA 10 PARKTED WITH METAL PREMIDE EPOXY AND TOPCOST.

12. ALLIGUECTRIAN, WORKS INFRENDANCE IN EXPECTED BY EXPENSIONED WEST LINES THE DIRECT GLYCONIDANCE A FILLY THE DESTRUCTION OF THE PROPERTY AND A DIVEY ADDRESS TED ELECTRICAL CONTINUES OF PANE WORKS IN-HALDS MEANLY PLACED, DECURELY FARTENED AND PROPRIET PARCHED

- HE TYPE OF DETYCE SHYWHES SHALL SE SHOULD PHASE. TWO HISS PLUS CHEARS, JOHNSON SINV ACKNOWNS.
- 17. CORRUNTE WHO CARE SHALL THERE BE MORE THAN THE GOLFALERY OF ROUN QUARTER MINES MANY ONE HOW ALL CONDUCT. SENSE WALL BE FIGLD WAS BY LISTING HYDRIVIA'S BEISSING WHICH A HISTORY WAS IN ACCOMMON TO THE CODE. RECURRENTS.
- 18. UPON CONFESTION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESIDENCE TEST AND PLACED WALL TO SURL, INC. PERFORMED BY THE CONTRACTOR PACLEDYS OF THE INSTALLATION TO SE SEPONDED MISSISHED DEVENOUS APPROXIMATION THE GUEZON OTTY ENGREDZENG GEPANTRIENT REPRESENTATIVE, THE ORIGINAL RESIDENCE FOR IT, POTROM, DESIDENCE HALL NOT BE MORE THAN SID-MAIL DOMM, INCATION GROWNERS RESISTANCE SHALL NOT EXCEDED ONCE.

TROFFER TYPE WITH 1X18W LED TUBE LIGHT (FOR REPLACEMET)

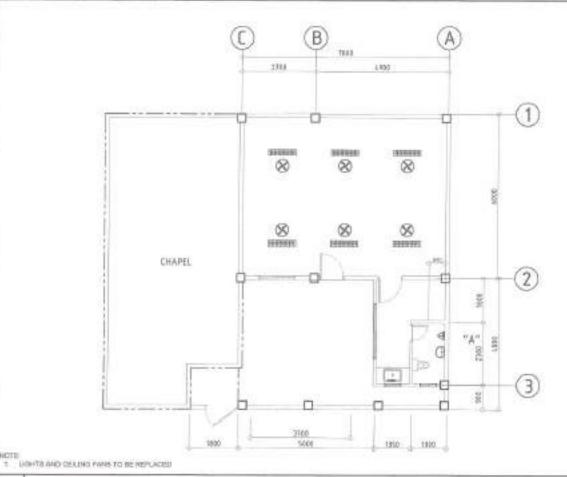


CEILING FAN (FOR REPLACEMENT)

E27 RECEPTACLE WITH LED BULB (FOR REPLACEMENT)

2 LEGEND AND SYMBOLS

SCALE NTIL



GENERAL NOTES

SCALE NITS.

ELECTRICAL LAYOUT

BCALE 1:100ML ON THE

Republika ng Pilipena. Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROMEET TITLE

PROPOSED REHABILITATION OF SITIO KISLAP DAY CARE CENTER

LOCATION SARANGAY PARTNICK DISTRICT V. GLICZGNOTV

DATE: BIRITYESE DHOODEN A

DA NEBBYON

ENOR LEGIS DEL ROBATIO

HEDDRING METERNAL

ENGR. IBA DATA R. VERZOBA, JIL

APPROVED BY

ODIDAY NOTES DELIDE AND DYMBOLD HOHMMA LEYOUT HON, MA, JOSEFINA G. BELMONTE DITT ROVOR

THETT CONTENT

EL-01 09 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 HANDWASHING FACILITY AND REHABILITATION

OF DAY CARE CENTER AT DISTRICT 5 / AREA VIII (CLUSTER 3)

LOCATION : BARANGAY KALIGAYAHAN AND FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00002B

DURATION: Sixty (60) Calendar Days

BREAKDOWN OF COST

| ITEM NO. | ITEM OF WORK (DESCRIPTION) | MATERIALS COST | LABOR COST | INDIRECT COST | AGGREGATE COST |
|-------------|--|-------------------|------------|---------------|-------------------|
| | BISTEKVILLE II DAYCARE CENTER, BRGY | . KALIGAYAHAN | | | |
| I | GENERAL REQUIREMENTS | | | | |
| II | SITE WORKS | | | | |
| III | CIVIL / STRUCTURAL WORKS | | | | |
| IV | ARCHITECTURAL WORKS | | | | |
| V | SANITARY / PLUMBING WORKS | | | | |
| VI | ELECTRICAL WORKS | | | | |
| VII | MECHANICAL WORKS | | | | |
| | SAPAMANAI DAYCARE CENTER, BRGY. FA | AIRVIEW | | | |
| I | GENERAL REQUIREMENTS | | | | |
| II | SITE WORKS | | | | |
| III | CIVIL / STRUCTURAL WORKS | | | | |
| IV | ARCHITECTURAL WORKS | | | | |
| V | SANITARY / PLUMBING WORKS | | | | |
| VI | ELECTRICAL WORKS | | | | |
| | FAIRVIEW DAYCARE CENTER, BRGY. FAIR | RVIEW | | | |
| I | GENERAL REQUIREMENTS | | | | |
| II | CONSTRUCTION OF HAND WASHING FACILITY | | | | |
| III | REHABILITATION OF FAIRVIEW DAY CARE CENTER | | | | |
| | SITIO KISLAP DAYCARE CENTER, BRGY. F | AIRVIEW | | | |
| I | GENERAL REQUIREMENTS | | | | |
| П | SITE WORKS | | | | |
| III | CIVIL / STRUCTURAL WORKS | | | | |
| IV | ARCHITECTURAL WORKS | | | | |
| V | SANITARY / PLUMBING WORKS | | | | |
| VI | ELECTRICAL WORKS | | | | |

| LUMP SUM BID IN WORDS |) <u>:</u> | | |
|-----------------------|------------|--|--|
| | | | |

TOTAL COST P

Bid Form Page 3 of 3

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF SAPAMANAI DAY CARE CENTER AT SECOND FLOOR

LOCATION : BARANGAY FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00002B

SCOPE OF WORKS:

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

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|-------------------|------------|
| I | GENERAL REQUIREMENTS | | | | |
| | Billboard | 1 | unit | ₱ | ₱ |
| | Clearing, Hauling and Disposal of Construction Materials and Debris | 1 | t.l. | | |
| | Construction Safety and Health Equipment | 1 | unit | | |
| | Scaffolding (Rental) | 62 | sq.m | | |
| | | | | DIRECT COST I | ₽ |
| II | SITE WORKS | | | | |
| | Demolition/Removal Works | | | | |
| | Removal of Ceiling | 59 | sq.m | ₱ | ₱ |
| | Removal of G.I. Flashing | 10 | l.m. | | |
| | Removal of Existing Doors | 2 | set | | |
| | Removal of Windows | 3 | sq.m | | |
| | Cleaning and Clearing for Painting Preparation | 148 | sq.m. | | |
| | | | | DIRECT COST II | ₽ |
| III | CIVIL WORKS / STRUCTURAL WORKS | | | | |
| | Masonry Works | | | | |
| | 150mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering | 2 | sq.m | ₽ | ₱ |
| | Roofing Works | | | | |
| | Pre-painted G.I. End Flashing | 20 | l.m. | | |
| | | | | MATERIAL COST III | ₱ |
| | | | | LABOR COST III | |
| | | | | DIRECT COST III | P |
| IV | ARCHITECTURAL WORKS | | | | |
| | Ceiling Finishes | | | | |
| | 6mm Fiber Cement Board including Metal Framing | 62 | sq.m. | ₱ | ₱ |
| | Fabricated Materials | | | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|----------------|------------|
| | Standing Cabinet | 2 | sq.m. | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | Installation of Doors | | | | |
| | D1 - (0.9m x 2.1m) Wooden Panel Door | 1 | set | ₽ | ₱ |
| | D-2 - (0.6m x 2.1m) PVC Door with Louver | 1 | set | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|---|-----|-------|------------------|------------|
| | Hardware and Accessories | | | | |
| | Door Hinge, Heavy Duty, Stainless | 6 | piece | | |
| | Door Knob, Lever-Type, Heavy Duty, Stainless | 2 | piece | | |
| | Installation of Windows | | | | |
| | W1 - (1.2m x 1.25m) Sliding Window on Aluminum Powder Coated Framing | 1 | set | | |
| | W2 - (1.2m x 1m) Sliding Window on Aluminum Powder Coated Framing | 1 | set | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | Painting Works | | | | |
| | Flat Latex Paint Finish | | | | |
| | Interior Walls | 94 | sq.m | ₽ | ₽ |
| | Ceiling | 62 | sq.m | | |
| | Letterings | | | | |
| | 200mm Stainless Steel Lettering | 22 | set | | |
| | "SAPAMANAI DAY CARE CENTER" | | | | |
| | | | | Materials Cost | ₽ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | | | | Jubiotai | |
| | | | | MATERIAL COST IV | ₽ |
| | | | | LABOR COST IV | |
| | | | | DIRECT COST IV | ₽ |
| V | SANITARY/PLUMBING WORKS | | | | |
| • | Plumbing Fixtures | | | | |
| | Hose Bibb, Stainless, Heavy Duty (Water Efficient) | 8 | piece | ₽ | ₽ |
| | Kitchen Sink Faucet, Lever Type, Stainless Heavy Duty (Water Efficient) | 1 | set | | |
| | Miscellaneous | | | | |
| | 400cc Solvent Cement | 1 | can | | |
| | All Around Sealant | 1 | can | | |
| | Teflon Tape | 3 | roll | | |
| | Waste Cloth | 1 | kg | | |
| | | | | MATERIAL COST V | P |
| | | | | LABOR COST V | |
| | | | | DIRECT COST V | ₽ |
| VI | ELECTRICAL WORKS | | | | |
| | Roughing-ins | | | | |
| | 16mm x 16mm x 2.44m Rectangular PVC Moulding | 18 | piece | ₽ | ₽ |
| | Fittings and Accessories | | | | |
| | 50mm x 100mm PVC Utility Box | 2 | piece | | |
| | 100mm x 100mm PVC Octagonal Junction Box | 1 | piece | | |
| | Wires and Cables | | 1200 | | |
| | 3.5mm² THHN Wire | 2 | roll | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|-----------|------------|
| | 5.5mm² THHN Wire | 1 | roll | | |
| | 3.5mm² TW Wire | 2 | roll | | |
| | Lighting Fixtures (Energy Efficient) | | | | |
| | 18W 150mmØ LED Bulb | 1 | piece | | |
| | 300mm x 1200mm Surface Mounted Box Type Lighting Fixture with 1- | 6 | set | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|------------------|------------|
| | Wiring Devices | | | | |
| | Ceiling Fan with Selector Switch | 3 | piece | | |
| | Outlet with Grounding, One-Gang, for ACU | 2 | piece | | |
| | Outlet with Grounding , Two-Gang | 5 | piece | | |
| | Switch w/ Plate & Cover, One Gang | 1 | piece | | |
| | Switch w/ Plate & Cover, Three Gang | 1 | piece | | |
| | Pipe Hangers & Supports | | | | |
| | Horizontal Layout of Pipe | 44 | l.m. | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 1 | can | | |
| | All Around Sealant | 1 | can | | |
| | Electrical Tape | 10 | roll | | |
| | GI Tie Wire, Ga. 16 (for Wire/Cable Pulling) | 1 | kg | | |
| | Hacksaw Blade | 2 | piece | | |
| | Masking Tape | 1 | piece | | |
| | Pulling Lubricant | 1 | can | | |
| | Rubber Tape | 2 | roll | | |
| | Torch with Butane | 2 | set | | |
| | | | | MATERIAL COST VI | ₱ |
| | | | | LABOR COST VI | |
| | | | | DIRECT COST VI | ₽ |
| | | | | | |

SUMMARY

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | AMOUNT |
|------------|--|--------|
| | GENERAL REQUIREMENTS SITE WORKS CIVIL WORKS / STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY/PLUMBING WORKS ELECTRICAL WORKS | P |
| NOTE: | Strictly enforce health protocols relative to the latest Overhead, Contingencies and Miscellaneous Expenses (OCM) applicable DPWH memorandum Profit VAT | ₽ |
| | TOTAL ESTIMATED COST | ₽ |

(Building Construction/Rehabilitation Project)

PROJECT_TITLE: PROPOSED REHABILITATION OF SITIO KISLAP DAY CARE CENTER

LOCATION : BARANGAY FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00002B

SCOPE OF WORK:

- 1. General Requirements include temporary enclosure, billboard, construction safety and health, scaffolding, and clearing, hauling and disposal of construction materials and debris.
- 2. Site Works include removal works, clearing and cleaning for painting preparation, and earthworks.
- 3. Civil Works include concrete works, masonry works, moisture protection, metal works, and roofing works.
- 4. Architectural Works include installation of floor finishes, wall finishes, ceiling finishes, installation of doors and windows, fabricated materials, painting works, and letterings.
- 5. Plumbing / Sanitary 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 | ₱ | ₱ |
| | Clearing, Hauling and Disposal of Construction Materials and Debris | 2 | t.l. | | |
| | Scaffolding (Rental) | 120 | sq.m. | | |
| | Construction Safety and Health | 1 | unit | | |
| | Temporary Enclosure Around the Construction Area (h=2.4) | 40 | l.m. | | |
| | | | | DIRECT COST I | ₱ |
| | | | | | |
| II | SITE WORKS | | | | |
| | Removal Works | | | | |
| | Removal of CHB Fence | 19 | sq.m | ₱ | ₽ P |
| | Removal of Dilapidated Tiles | 77 | sq.m | | |
| | Removal of Ceiling | 89 | sq.m | | |
| | Removal of Cabinet | 3 | sq.m | | |
| | Removal of Doors and Gate | 5 | set | | |
| | Removal of Windows | 5 | sq.m | | |
| | Removal of Plant Box | 1 | cu.m. | | |
| | Removal of Water Closet | 1 | pece | | |
| | Removal of Lavatory and Faucet | 6 | pece | | |
| | Removal of Urinal | 1 | pece | | |
| | Removal of Kitchen Sink | 1 | piece | | |
| | Chipping of Concrete (Plumbing Works and Slab) | 33 | sq.m. | | |
| | Clearing and Cleaning for Painting Preparation | 196 | sq.m. | | |
| | Site Clearing and Preparation | 3 | sq.m. | | |
| | Excavation for Structures | 3 | cu.m. | | |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|-------------------------------------|------|-------|----------------|------------|
| | | | | Subtotal | ₱ |
| | | | | | |
| | Gravel Bedding | 3 | cu.m. | ₽ | ₽ |
| | | | | Materials Cost | ₽ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | | | | | |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|---|------|-------|-------------------|------------|
| | Backfill and Compaction | 1 | cu.m. | ₽ | ₱ |
| | | | | Subtotal | ₽ |
| | | | | | |
| | | | | MATERIALS COST II | ₽ |
| | | | | LABOR COST II | |
| | | | | DIRECT COST II | ₽ |
| III | CIVIL/STRUCTURAL WORKS | | | | |
| | Concrete Works | | | | |
| | On-Site Mix Concrete, 28 Mpa, 3/4" Gravel @ 28 days | | | | |
| | Wall Footing | 1 | cu.m. | ₽ | ₽ |
| | Column | 1 | cu.m. | | |
| | Reinforcing Steel Bars | | | | |
| | Grade 40 Reinforcing Steel Bars including #16 G.I. Tie | | | | |
| | Wire | | | | |
| | 10mm Ø Column | 47 | kg | | |
| | 12mm Ø Wall Footing | 45 | kg | | |
| | Grade 60 Reinforcing Steel Bars including #16 G.I. Tie Wire | | | | |
| | 16mm Ø Column | 70 | kg | | |
| | Formworks | | | | |
| | Column | 6 | sq.m. | | |
| | Scaffolding and Shoring | | | | |
| | Column | 10 | l.m. | | |
| | Masonry Works | | | | |
| | 150 CHB Wall Laying, including Mortar, Reinforcement | 21 | sq.m. | | |
| | Restoration of Concrete (Plumbing Works) | 2 | sq.m. | | |
| | Plastering of Column | 12 | sq.m. | | |
| | Moisture Protection | | | | |
| | Cementitious Capillary Type Waterproofing | 5 | sq.m. | | |
| | Metal Works | | | | |
| | Gate | | | | |
| | 50mm x 50mm x 4mm Tubular Bar | 85 | kg | | |
| | 25mm x 25mm x 4mm Tubular Bar | 366 | kg | | |
| | 38mm Ø Barrel Bolt | 2 | set | | |
| | Cylindrical Hinges, Heavy Duty | 6 | set | | |
| | Perimete Fence | | | | |
| | 50mm Ø GI Pipe Sch 20 | 97 | kg | | |
| | 20mm x 5mm Flat Bar | 24 | kg | | |
| | 50mm x 50mm Wire Mesh | 8 | sq.m. | | |
| | Miscellaneous | | | | |
| | Acetylene Tank (Refill) | 1 | tank | | |
| | Assorted Metal Drill Bit | 5 | piece | | |
| | Cut Off Blade | 2 | piece | | |
| | Grinding Disc for Metal | 5 | piece | | |
| | Oxygen Tank (Refill) | 2 | tank | | |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|--|------|-------|-----------|------------|
| | Welding Rod | 1 | box | | |
| | Roofing Works | | | | |
| | Pre-Painted Rib Type G.I. Roofing | 140 | sq.m. | | |
| | Pre-Painted G.I. Flashing | 19 | l.m. | | |
| | 12mm x 300mm Fiber Cement Fascia Board | 9 | l.m. | | |
| | 6mm thk One-Sided Aluminum Foil Thermal Insulation | 140 | sq.m. | | |
| | Tekscrew | 700 | piece | | |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|--|------|-------|--------------------|------------|
| | Blind Rivets | 12 | piece | | |
| | Silicon Sealant | 5 | tube | | |
| | | | | MATERIALS COST III | ₱ |
| | | | | LABOR COST III | |
| | | | | DIRECT COST III | P |
| | | | | | |
| IV | ARCHITECTURAL WORKS | | | | |
| | Floor Finishes | | | | |
| | 50mm Concrete Topping with Plain Cement Finish | 33 | sq.m. | ₽ | ₱ |
| | 300mm x 300mm Non-Skid Homogeneous Floor Tiles | 5 | sq.m. | | |
| | 600mm x 600mm Non-Skid Homogeneous Floor Tiles | 63 | sq.m. | | |
| | Floor Topping Preparation for Tile Works | 70 | sq.m. | | |
| | Wall Finishes | | | | |
| | 300mm x 300mm Homogeneous Wall Tiles | 12 | sq.m. | | |
| | Countertop Finishes | | | | |
| | 300mm x 300mm Non-Skid Homogeneous Floor Tiles | 2 | sq.m. | | |
| | Ceiling Finishes | | | | |
| | 6mm Thk Fiber Cement Board Including Metal | 93 | sq.m. | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | | | | | |
| | Installation of Doors | | | | |
| | D1 - (0.9m x 2.10m) Wooden Panel Door | 1 | set | ₱ | ₱ |
| | D2 - (0.8m x 2.10m) Wooden Panel Door | 1 | set | | |
| | D3 - (0.60m x 2.10m) PVC Door with Louver | 1 | set | | |
| | Door Jambs | | | | |
| | Wooden Jambs | | | | |
| | D1 - (0.9m x 2.10m) Panel Door Wooden Jamb | 1 | set | | |
| | D2 - (0.8m x 2.10m) Panel Door Wooden Jamb | 1 | set | | |
| | Hardwares and Accessories | | | | |
| | Door Hinges, Heavy Duty, Stainless | 9 | set | | |
| | Door Knob, Lever Type, Stainless | 3 | set | | |
| | Installation of Windows | | | | |
| | W1-(1.3m x 1.2m) Sliding Window on Powder Coated | 1 | set | | |
| | W2-(2.0m x 1.2m) Sliding Window on Powder Coated | 1 | set | | |
| | W3-(0.6m x 0.6m) Awning Window on Powder Coated | 2 | set | | |
| | | | | Materials Cost | |
| | | | | Labor Cost | ₱ |
| | | | | Subtotal | P |
| | Painting Works | | | | |
| | Epoxy Enamel Paint Finish (Steel Members) | 41 | sq.m. | ₽ | ₽ |
| | Elastomeric Paint Finish (Exterior Walls) | 89 | sq.m. | | |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|-------------------------------------|------|-------|-----------|------------|
| | Flat Latex Paint Finish | | | | |
| | Interior Walls | 101 | sq.m. | | |
| | Ceiling | 108 | sq.m. | | |
| | Fabricated Materials | | | | |
| | Hanging Cabinet | 1 | sq.m. | | |
| | Under Counter Cabinet | 1 | l.m. | | |
| | Standing Cabinet | 1 | l.m. | | |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|--|--------|----------------|-------------------|------------|
| | Letterings | | | | |
| | 200mm Stainless Steel Lettering "SITIO KISLAP DAY | 24 | set | | |
| | · · · · | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | | | | | |
| | Cleaning and Re-Touching of Paint with Simple Design | 13 | sq.m. | ₽ | ₱ |
| | | | | Subtotal | ₽ |
| | | | | | |
| | | | | MATERIALS COST IV | ₽ |
| | | | | LABOR COST IV | |
| | | | | DIRECT COST IV | ₽ |
| V | PLUMBING/SANITARY WORKS | | | | |
| V | Sanitary Line/Storm Drainage System | | | | |
| | Roughing-ins | | | | |
| | 50mm Ø PVC Pipe with Hub | 4 | piece | ₽ | ₽ |
| | 50mm Ø x 50mm Ø Wye | | piece | F | Г |
| | 50mm Ø x 50mm Ø PVC 1/4 Bend | 1 | • | | |
| | 50mm Ø x 50mm Ø PVC 1/4 Bend | 3 | piece | | |
| | 50mm Ø PVC Cleanout | 2 | piece piece | | |
| | 50mm Ø PVC P-Trap | 4 | • | | |
| | Waterline System | 1 | piece | | |
| | Roughing-ins | | | | |
| | 20mm Ø PPR Pipe | 0 | nicoo | | |
| | 20mm Ø x 20mm Ø Tee Equal | 8 | piece piece | | |
| | 20mm Ø 90° Elbow | 6 7 | • | | |
| | 20mm Ø Coupling | 3 | piece piece | | |
| | | 3 | piece | | |
| | Pidet Hoovy Duty Steinless Steel (Mater Efficient) | 1 | oot | | |
| | Bidet, Heavy-Duty, Stainless Steel (Water Efficient) Floor Drain, 100mm x 100mm Stainless Steel | 1 | set | | |
| | Grease Trap, 5GPM, Heavy Duty, with Accessories | 1 | piece | | |
| | Hose Bibb, Heavy Duty (Water Efficient) | 4 | set | | |
| | Kitchen Sink, Single Tub, Stainless | 1 | piece piece | | |
| | Kitchen Sink, Single Tub, Starriess Kitchen Sink Faucet, Lever Type (Water Efficient) | 1 | piece | | |
| | Lavatory, Wall Hung, Kiddy | 1 | set | | |
| | Lavatory, Wall Hullg, Niddy Lavatory Faucet, Lever-type, Stainless Steel (Water | 1 | ૩ ૯ા | | |
| | Efficient) | 1 | piece | | |
| | Water Closet, Tank Type, Kiddy (Water Efficient) | 1 | set | | |
| | Accessories & Hardwares | | | | |
| | Angle Valve, Single-Way, Stainless | 4 | piece | | |
| | Angle Valve, Two-Way, Stainless | 1 | piece | | |
| | Flexible Hose, Stainless | 5 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 2 | can | | |
| | All Purpose Sealant | 2 | can | | |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|-------------------------------------|------|-------|------------------|------------|
| | Hacksaw Blade | 3 | piece | | |
| | Teflon Tape | 4 | roll | | |
| | Waste Cloth | 2 | kg | | |
| | | | | MATERIALS COST V | ₱ |
| | | | | LABOR COST V | |
| | | | | DIRECT COST V | ₱ |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|--|------|-------|-------------------|------------|
| | | | | | |
| VI | ELECTRICAL WORKS | | | | |
| | Lighting and Power System | | | | |
| | Roughing-ins | | | | |
| | 3/8" Rectangular PVC Moulding | 40 | piece | ₱ | ₱ |
| | Fittings & Accessories | | | | |
| | 4" x 4" Metal Junction Box with cover | 5 | piece | | |
| | 4" x 2" metal utility box | 5 | piece | | |
| | 4" x 4" metal square box | 5 | piece | | |
| | Wires and Cables | | | | |
| | 3.5mm² THHN Wire | 1 | roll | | |
| | 2.0mm ² THW Wire | 40 | l.m. | | |
| | Lighting Fixtures (Energy Efficient) | | | | |
| | T8, 18w LED Tube Light | 6 | piece | | |
| | Wiring Devices and Other Fixtures | | | | |
| | Ceiling Orbit Fan with Selector Switch | 6 | set | | |
| | Outlet with Gounding , One-Gang | 3 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 1 | can | | |
| | All Around Sealant | 2 | tube | | |
| | General Purpose Construction Adhesive | 5 | tube | | |
| | Electrical Tape | 1 | roll | | |
| | Hacksaw Blade | 2 | piece | | |
| | Masking Tape | 1 | roll | | |
| | Rubber Tape | 1 | roll | | |
| | | | | MATERIALS COST VI | ₽ |
| | | | | LABOR COST VI | |
| | | | | DIRECT COST VI | ₽ |
| | | | | | |

SUMMARY

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | TOTAL COST | | | |
|------------|-------------------------------------|------------|--|--|--|
| | OFNEDAL DEGLIDEMENTO | | | | |
| l | GENERAL REQUIREMENTS | ₽ | | | |
| Ш | SITE WORKS | | | | |
| Ш | CIVIL/STRUCTURAL WORKS | | | | |
| IV | ARCHITECTURAL WORKS | | | | |
| V | PLUMBING/SANITARY WORKS | | | | |
| VI | ELECTRICAL WORKS | | | | |
| | | | | | |
| NOT | E: | | | | |
| | TOTAL DIRECT COST | | | | |

| ITEM NO. | WORK DESCRIPTION AND SCOPE OF WORKS | QTY. | UNIT | UNIT COST | TOTAL COST |
|-------------|---|---------|------|---|------------|
| | Strictly enforce health protocols relative to the latest applicable DPWH memorandum | Miscell | | erhead, Contingencies and d Consumables Expenses (OCM) Profit VAT | |
| | | | тс | OTAL ESTIMATED COST | P |

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF BISTEKVILLE II DAY CARE CENTER

LOCATION: BARANGAY KALIGAYAHAN, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00002B

SCOPE OF WORKS:

- I. General Requirements include billboard, cleaning, hauling and disposal of construction materials and debris, construction safety and health scaffolding, and temporary enclosure around the construction area.
- II. Site Works include removal works, cleaning and clearing for painting preparation, layout and staking, and site clearing and preparation.
- III. Civil/Structural Works include masonry works, and moisture protection.
- IV. Architectural Works includes installation of floor, wall and ceiling finishes, doors and door jambs, fabricated materials, painting works and letterings.
- V. Sanitary/Plumbing Works include installation of roughing-ins, equipment, fixtures and accessories.
- VI. Electrical Works include installation of devices and fixtures.
- VII. Mechanical Works include installation of rounging ins, equipment and accessories.
- VIII. 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 |
|------------|---|-----|-------|---|----------------|------------|
| ı | 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) | 22 | sq.m. | | | |
| | Temporary Enclosure Around the Construction Area (h=2.4m) | 7 | l.m. | | | |
| | | | | | DIRECT COST I | ₽ |
| II | SITE WORKS | | | | | |
| | Removal / Demolition of Existing Structure | | | | | |
| | Removal of Existing Tiles | 2 | sq.m. | ₽ | | ₱ |
| | Removal of Existing Window | 2 | sq.m. | | | |
| | Removal of Existing Door and Door Jambs | 4 | set | | | |
| | Removal of Existing Water Closet | 2 | unit | | | |
| | Removal of Existing Lavatory | 2 | unit | | | |
| | Chipping of Concrete (Sanitary/Plumbing Works) | 13 | sq.m. | | | |
| | Cleaning and Clearing for Painting Preparation | 84 | sq.m. | | | |
| | | | | ! | DIRECT COST II | ₱ |
| III | CIVIL WORKS / STRUCTURAL WORKS | | | | | |
| | Masonry Works | | | | | |
| | 150mm CHB Laying including Mortar, Reinforcement and Two-Face | 2 | sq.m | ₽ | | ₽ |
| | Plastering | | | | | |
| | Restoration of Concrete Floor (Sanitary/Plumbing Works) | 14 | cu.m. | | | |
| | Plastering of Door Opening | 2 | sq.m. | | | |
| | Moisture Protection | | | | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|---|-----|-------|--------------------|------------|
| | Cementitious Capillary Type Waterproofing | 2 | sq.m. | | |
| | | | | 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 | | | | |
| | 400mm x 400mm Non-skid Homogeneous Tiles (Comfort Rooms) | 5 | sq.m. | ₽ | ₽ |
| | Floor Topping for Preparation of Tile Works | 5 | sq.m. | | |
| | Wall Finishes | | | | |
| | 400mm x 400mm Homogeneous Tiles (Comfort Rooms) | 4 | sq.m. | | |
| | Ceiling Finishes | | | | |
| | 6mm thk Fiber Cement Board Ceiling for manhole cover | 1 | sq.m. | | |
| | Fabricated Materials | | | | |
| | Steel Shelves | 1.8 | l.m. | | |
| | Granite Countertop | 2 | l.m. | | |
| | Lettering | | | | |
| | 200mm Stainless Steel Signage | 26 | set | | |
| | "BISTEKVILLE II DAYCARE CENTER" | | | | |
| | | | | Materials Cost | ₽ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | | | | | |
| | Installation of Doors | | | | |
| | Doors | | | | |
| | D1 - (1.0m x 2.10m) Swing Type Metal Door | 1 | set | ₽ | ₽ |
| | D2 - (0.60m x 2.10m) PVC Door with Louver | 2 | set | | |
| | D3 - (0.90m x 2.10m) 6mm thk Clear Glass Door Aluminum Framed | 1 | set | | |
| | Door | ' | 361 | | |
| | Door Jambs | | | | |
| | D1 - (1.0m x 2.10m) Swing Type Metal Door | 1 | set | | |
| | Hardwares and Accessories | | | | |
| | Door Hinge, Heavy Duty, Stainless | 9 | set | | |
| | Door Knob, Lever Type, Stainless | 3 | set | | |
| | | | | Materials Cost | ₽ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | | | | | |
| | Painting Works | | | | |
| | Latex Paint Finish | | | | |
| | Ceiling | 63 | sq.m | ₽ | ₽ |
| | Interior Walls | 103 | sq.m | | |
| | | | | Materials Cost | ₽ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | | | | | |
| | | | | MATERIALS COST IV | ₽ |
| | | | | LABOR COST IV | |
| | | | | DIRECT COST IV | ₽ |
| ٧ | SANITARY / PLUMBING WORKS | | | | |
| | Sewer Line / Storm Drainage System | | | | |
| | PVC Roughing-Ins | | | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|-------------------------------------|-----|-------|-----------|------------|
| | 50mm Ø PVC Pipe with Hub | 12 | piece | ₱ | ₱ |
| | Waterline System | | | | |
| | PPR Roughing-Ins | | | | |
| | 20mm Ø PPR Pipe | 10 | piece | | |
| | 25mm Ø PPR Pipe | 10 | piece | | |
| | 32mm Ø PPR Pipe | 5 | piece | | |
| | 25mm Ø x 25mm Ø PPR 90° Elbow | 4 | piece | | |
| | 32mm Ø x 32mm Ø PPR 90° Elbow | 4 | piece | | |
| | 32mm Ø x 25mm Ø PPR Reducer | 3 | piece | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|---|-----|-------|-------------------|------------|
| | Valves and Appurtenances | | | | |
| | 32mm Ø PPR Gate Valve | 2 | piece | | |
| | 32mm Ø Water Meter | 1 | piece | | |
| | Plumbing Fixtures | | - | | |
| | Bidet, Heavy Duty Stainless (Water Efficient) | 2 | set | | |
| | Floor Drain, 100mm x 100mm , Stainless | 3 | piece | | |
| | Grease Trap, Stainless, 5GPM | 1 | set | | |
| | Hose Bibb, Heavy Duty (Water Efficient) | 5 | set | | |
| | Lavatory Wall Hung, Kiddy | 2 | set | | |
| | Lavatory Faucet, Lever-type Heavy Duty Stainless Steel (Water Efficient) | 2 | set | | |
| | Urinal, Flush Type, Kiddy (Water Efficient) | 1 | set | | |
| | Water Closet, Tank Type, Kiddy, (Water Efficient) | 2 | set | | |
| | Accessories & Hardwares | | | | |
| | Angle Valve, Stainless Single Way | 2 | piece | | |
| | Angle Valve, Stainless Two Way | 2 | piece | | |
| | Flexible Hose, Stainless | 4 | piece | | |
| | Soap Dispenser, Stainless | 2 | piece | | |
| | Tissue Holder, Stainless | 2 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 2 | can | | |
| | All-Around Sealant | 3 | can | | |
| | Hacksaw Blade | 3 | piece | | |
| | Teflon Tape | 7 | roll | | |
| | Waste Cloth | 2 | kg | | |
| | | | | MATERIALS COST V | ₽ |
| | | | | LABOR COST V | |
| | | | | DIRECT COST V | ₽ |
| | | | | | |
| VI | ELECTRICAL WORKS | | | | |
| | Devices and Lighting Fixtures | | | | |
| | 6" Ø Round Surface Pinlight (case) | 3 | piece | ₽ | ₱ |
| | Emergency Light, Twinhead | 2 | piece | | |
| | 300mm x 1200mm, 1 x 18w LED, Troffer Type, w/ complete accessories, recessed type | 8 | set | | |
| | Ceiling mounted Exhaust fan | 3 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | All around Sealant | 1 | tube | | |
| | Electrical Tape | 1 | roll | | |
| | Hacksaw Blade | 2 | piece | | |
| | Masking Tape | 1 | roll | | |
| | Rubber Tape | 1 | roll | | |
| | | | | MATERIALS COST VI | ₱ |
| | | | | LABOR COST VI | |
| | | | | DIRECT COST VI | ₱ |
| | | | | | |
| VII | MECHANICAL WORKS | | | | |
| | Refrigerant Pipe System | | | | |
| | 10mm Ø Copper Coil Tubing | 9 | l.m. | ₽ | ₱ |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|-----------|------------|
| | 20mm Ø Copper Coil Tubing | 9 | l.m. | | |
| | 10mm Ø x 20mm thick Rubber Foam Insulation | 9 | l.m. | | |
| | 20mm Ø x 20mm thick Rubber Foam Insulation | 9 | l.m. | | |
| | Condensate Water Drainage System | | | | |
| | 32mm Ø x 3m uPVC Pipe | 4 | piece | | |
| | 32mm Ø x 12mm thick Rubber Foam Insulation | 12 | l.m. | | |
| | 32mm Ø 90° uPVC Pipe Elbow | 8 | piece | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|--------------------|------------|
| | 32mm Ø x 25mm Ø uPVC Pipe Coupling Reducer | 1 | piece | | |
| | | | | Materials Cost | ₽ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | Equipment and Accessories | | | | |
| | SACU 1 - Ceiling Cassette Type Fan Coil Unit, 2.0TR 2.22kW, 9.52mm Ø Liquid Pipe & 19.05mm Ø Gas Pipe, 32mm Ø Drain Pipe | 1 | unit | ₽ | ₽ |
| | | | | Materials Cost | |
| | | | | Labor Cost | |
| | | | | Subtotal | |
| | Pipe Hangers and Supports | | | | |
| | Condensate Water Drainage System Support | 12 | l.m. | ₽ | ₽ |
| | Refrigerant Pipe System Support (150mm Ø U-Bolt) | 9 | l.m. | | |
| | ACCU Support | 1 | unit | | |
| | Vibration Isolator | 4 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Pipe Solvent Cement | 1 | can | | |
| | 25mm wide x 50m long Polyethylene Tape | 2 | roll | | |
| | Brazing Rod (10pcs/box) | 1 | box | | |
| | Waste Cloth | 1 | kg | | |
| | | | | Materials Cost | ₽ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | | | | MATERIALS COST VII | P |
| | | | | LABOR COST VII | |
| | | | | DIRECT COST VII | P |
| | | | | | |

SUMMARY

| ITEM NO | WORK DESCRIPTION & SCOPE OF WORKS | TOTAL COST |
|------------|--|------------|
| | GENERAL REQUIREMENTS SITE WORKS CIVIL WORKS / STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY / PLUMBING WORKS ELECTRICAL WORKS MECHANICAL WORKS | ₽ |
| Note: | TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit | ₽ |

| ITEM NO | WORK DESCRIPTION AND | SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|---|----------------|-----|------|-------------------|------------|
| , | enforce health protocol relative to the applicable DPWH Memorandum. | | | | VAT | |
| | | | | тот | AL ESTIMATED COST | ₽ |

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED CONSTRUCTION OF HAND WASHING FACILITY AND REHABILITATION OF

FAIRVIEW DAYCARE CENTER

LOCATION : BARANGAY FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00002B

SCOPE OF WORKS:

I GENERAL REQUIREMENTS

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

II CONSTRUCTION OF HANDWASHING FACILITY

- 1. Construction of Handwashing Facility.
- 2. Site Works include demolition/removal works.
- 3. Civil Works include restoration of concrete.
- 4. Sanitary/Plumbing Works include installation of roughing-ins and accessories.

III REHABILITATION OF FAIRVIEW DAYCARE CENTER

- 1. Site Works include demolition/removal works, cleaning and clearing for painting preparation, layout and staking and earthworks.
- 2. Civil/Structural works include concrete works, masonry works, metal works and roofing works.
- Architectural Works include floor finishes, wall finishes, ceiling finishes, installation of doors and windows, painting works fabricated materials.
- 4. Sanitary/Plumbing Works include installation of roughing-ins, fixtures and accessories.
- 5. Electrical Works include installation of roughing-ins, wiring, devices, fixtures and accessories and replacement of panelboard enclosure.

IV TESTING AND COMMISSIONING

1. All necessary testing and commissioning shall be performed in accordance to standards.

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|---|-----|-------|---------------|------------|
| I | GENERAL REQUIREMENTS | | | | |
| | Billboard | 1 | unit | P | ₱ |
| | Clearing, Hauling and Disposal of Construction Materials and Debris | 2 | t.l. | | |
| | Construction Safety and Health | 1 | unit | | |
| | Scaffolding (Rental) | 84 | sq.m. | | |
| | Temporary Enclosure Around the Construction Area (h=2.4m) | 38 | l.m. | | |
| | | | | DIRECT COST I | ₱ |
| | | | | | |
| II | CONSTRUCTION OF HANDWASHING FACILITY | | | | |
| Α | Kiddy Countertop with Undercounter Cabinet (Aluminum) | 1 | unit | ₱ | ₱ |
| | | | | DIRECT COST I | ₱ |
| | | | | | |
| В | SITE WORKS | | | | |
| | Demolition / Removal Works | | | | |
| | Chipping of Concrete (Plumbing Works) | 10 | sq.m. | ₱ | ₱ |
| | | | | Direct Cost B | ₽ |
| | | | | | |
| С | CIVIL WORKS | | | | |
| | Restoration of Concrete (Plumbing Works) | 10 | sq.m. | P | ₱ |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|-------------------------------------|-----|------|------------------|------------|
| | | | | 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 System | | | | |
| | 50mm Ø PVC Pipe with Hub | 2 | piece | ₽ | ₽ |
| | 50mm Ø x 50mm Ø Tee | 1 | piece | | |
| | 50mm Ø x 50mm Ø 1/4 Bend | 1 | piece | | |
| | 50mm Ø Coupling | 2 | piece | | |
| | 50mm Ø Cleanout | 1 | piece | | |
| | Water Line System | | | | |
| | 20mm Ø PPR Pipe, PN 16 | 2 | piece | | |
| | 20mm Ø x 20mm Ø PPR Tee Equal | 3 | piece | | |
| | 20mm Ø PPR Elbow | 1 | piece | | |
| | 20mm Ø PPR Union Patente | 1 | piece | | |
| | 20mm Ø, Female Tee, Threaded | 4 | piece | | |
| | 20mm Ø PPR Coupling | 2 | piece | | |
| | 20mm Ø PPR Male Adaptor | 1 | piece | | |
| | Valves and Appurtenances | | | | |
| | 20mm Ø PPR Gate Valve | 1 | piece | | |
| | Fixtures | | | | |
| | Hose Bibb, Lever-type, Stainless, Heavy-Duty (Water Efficient) | 4 | set | | |
| | Miscellaneous and Consumables | | | | |
| | 400cc Solvent Cement | 2 | can | | |
| | All Around Sealant | 2 | can | | |
| | Hacksaw Blade | 3 | piece | | |
| | Teflon Tape | 5 | roll | | |
| | Waste Cloth | 1 | kg | | |
| | | | | Materials Cost D | ₽ |
| | | | | Labor Cost D | |
| | | | | Direct Cost D | ₽ |
| | | | | | |
| | | | | MATERIAL COST II | ₽ |
| | | | | LABOR COST II | |
| | | | | DIRECT COST II | ₽ |
| | | | | | |
| Ш | REHABILITATION OF FAIRVIEW DAYCARE CENTER | | | | |
| Α | SITE WORKS | | | | |
| | Demolition / Removal Works | | | | |
| | Demolition of Existing CHB Wall | 16 | sq.m. | ₽ | ₽ |
| | Removal of Ceiling | 48 | sq.m. | | |
| | Removal of Doors | 5 | set | | |
| | Removal of Windows | 13 | sq.m. | | |
| | Removal of Tiles | 28 | sq.m. | | |
| | Removal of Plumbing Fixtures | | | | |
| | Water Closet | 4 | set | | |
| | Urinal | 1 | set | | |
| | Lavatory | 1 | set | | |
| | Chipping of Concrete (Electrical Works) | 5 | sq.m. | | |
| | Layout and Staking | 16 | sq.m. | | |
| | Backfill and Compaction | 4 | cu.m. | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|----------------|------------|
| | Cleaning and Clearing for Painting Preparation | 390 | sq.m. | | |
| | | | | Subtotal | ₱ |
| | | | | | |
| | Gravel Bedding | 2 | cu.m | ₱ | ₱ |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|----------|------------------|------------|
| | | | | Materials Cost A | ₽ |
| | | | | Labor Cost A | Г |
| | | | | Direct Cost A | ₽ |
| | | | | Direct Cost A | Г |
| В | CIVIL / STRUCTURAL WORKS | | | | |
| | Concrete Works | | | | |
| | On-Site Mix Concrete, 21 MPa, 3/4" Gravel, @ 28 days | | | | |
| | Slab on Fill | 2 | cu.m. | ₽ | ₽ |
| | Reinforcing Bars | | | | |
| | Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16 | | | | |
| | 10mm Ø Reinforcing Steel Bar | | | | |
| | Slab on Fill | 62 | kg | | |
| | Masonry Works | 02 | 9 | | |
| | 100mm CHB Laying including Mortar, Reinforcement and Two- Face Plastering | 46 | sq.m. | | |
| | Metal Works | | | | |
| | Steel Gate (G1) | | | | |
| | 50mm Ø G.I. Pipe Sch. 40 | 72 | kg | | |
| | 12mm thk Square Bar | 60 | kg | | |
| | 20mm Ø Barrel Bolt | 1 | set | | |
| | 20mm Ø Foot Bolt | 1 | set | | |
| | 50mm Ø Pillow Block Hinge | 3 | piece | | |
| | Miscellaneous & Consumables | | | | |
| | Acetylene Tank Refill | 1 | tank | | |
| | Assorted Metal Drill Bit | 5 | piece | | |
| | Cut Off Blade | 5 | piece | | |
| | Grinding Disc Metal | 5 | piece | | |
| | Oxygen Tank Refill | 1 | tank | | |
| | Welding Rod | 1 | box | | |
| | | | | Materials Cost B | ₽ |
| | | | | Labor Cost B | |
| | | | | Direct Cost B | ₽ |
| С | ARCHITECTURAL WORKS | | | | |
| _ | Floor Finishes | 1 | | | |
| | 400mm x 400mm Non-Skid Homogeneous Floor Tiles | 13 | sq.m. | ₽ | ₽ |
| | Floor Topping for Preparation of Tile Works | 13 | sq.m. | <u> </u> | |
| | Wall Finishes | 1 . | 79 | | |
| | 400mm x 400mm Homogeneous Wall Tiles | 13 | sq.m. | | |
| | Ceiling Finishes | | - 1 | | |
| | 6mm thk Fiber Cement Board including Metal Framing | 7 | sq.m. | | |
| | 600mm x 600mm Acoustic Board including Metal Framing | 51 | sq.m. | | |
| | Countertop Finishes | 1 | <u> </u> | | |
| | 300mm x 300mm Homogeneous Tiles | 2 | sq.m. | | |
| | | 1 | <u>'</u> | Materials Cost | ₽ |
| | | 1 | | Labor Cost | |
| | | | | Subtotal | ₽ |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|------|-----------|------------|
| | | | | | |
| | Installation of Doors | | | | |
| | D1 - (3.0m x 2.1m) Two-Leaf Door with Side Light | 1 | set | ₱ | ₱ |
| | D2 - (1.0m x 2.1m) Solid Panel Door | 1 | set | | |
| | D3 - (0.8m x 2.1m) Flush Door | 1 | set | | |
| | D4 - (0.6m x 2.1m) PVC Door with Louver | 3 | set | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|-------|------------------|------------|
| | Door Jambs | | | | |
| | D2 - (1.0m x 2.1m) Panel Door | 1 | set | | |
| | D3 - (0.8m x 2.1m) Panel Door | 1 | set | | |
| | Hardware and Accessories | | | | |
| | Door Knob, Lever Type, Stainless | 5 | piece | | |
| | Door Hinge, Heavy Duty, Stainless | 15 | piece | | |
| | Installation of Windows | | | | |
| | W1 - 2.4m x 1.2m Glass on Aluminum Frame Sliding Window | 3 | set | | |
| | W2 - 1.6m x 1.2m Glass on Aluminum Frame Sliding Window | 2 | set | | |
| | W3 - 0.5m x 0.5m Glass on Aluminum Frame Awning Window | 3 | set | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₱ |
| | | | | | |
| | Painting Works | | | | |
| | Epoxy Enamel Paint Finish (Steel Members) | 5 | sq.m. | ₱ | ₽ |
| | Flat Latex Paint Finish | | | | |
| | Interior Wall | 301 | sq.m. | | |
| | Ceiling | 7 | sq.m. | | |
| | | | | Materials Cost | ₱ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | | | | | |
| | Letterings | | | | |
| | 200mm Stainless Steel Letterings "FAIRVIEW DAYCARE CENTER" | 21 | set | ₱ | P |
| | Fabrication Works | | | | |
| | Aluminum Cover (Undercounter Cabinet) | 2.7 | I.m. | | |
| | Hanging Cabinet | 2.7 | l.m. | | |
| | | | | Materials Cost | ₽ |
| | | | | Labor Cost | |
| | | | | Subtotal | ₽ |
| | | | | | |
| | | 1 | | Materials Cost C | ₽ |
| | | 1 | | Labor Cost C | |
| | | 1 | | Direct Cost C | ₽ |
| | | | | | |
| D | SANITARY / PLUMBING WORKS | | | | |
| | Sewer Line and Storm Drainage System | | | | |
| | 50mm Ø PVC Pipe with Hub | 5 | piece | ₽ | ₽ |
| | 75mm Ø PVC Pipe with Hub | 3 | piece | | |
| | 100mm Ø PVC Pipe with Hub | 4 | piece | | |
| | 100mm Ø x 75mm Ø Wye | 3 | piece | | |
| | 50mm Ø x 50mm Ø 1/4 Bend | 9 | piece | | |
| | 75mm Ø x 75mm Ø 1/4 Bend | 3 | piece | | |
| | 100mm Ø x 50mm Ø 1/4 Bend | 6 | piece | | |
| | 75mm Ø x 75mm Ø 1/8 Bend | 3 | piece | | |
| | 50mm Ø P-Trap | 7 | piece | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|-------------------------------------|-----|-------|-----------|------------|
| | 50mm Ø Coupling | 5 | piece | | |
| | 75mm Ø Coupling | 3 | piece | | |
| | 100mm Ø Coupling | 4 | piece | | |
| | 100mm Ø Cleanout | 1 | piece | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|--|-----|--------|------------------|------------|
| | Waterline System | | | | |
| | 20mm Ø PPR Pipe, PN 16 | 5 | piece | | |
| | 20mm Ø PPR 90° Elbow | 4 | piece | | |
| | 20mm Ø PPR Tee Equal | 5 | piece | | |
| | 20mm Ø PPR Female Threaded Adaptor | 6 | piece | | |
| | 20mm Ø PPR Coupling | 5 | piece | | |
| | Fixtures | | | | |
| | Bidet with Completer Accessories, Stainless, | 3 | piece | | |
| | Heavy Duty (Water Efficient) | | | | |
| | Floor Drain, 100mm x 100mm, Stainless | 3 | piece | | |
| | Grease Trap, 5 GPM, Stainless, Heavy Duty | 1 | set | | |
| | Lavatory, Kiddie, Wall-Hung | 2 | set | | |
| | Lavatory, Wall-Hung | 1 | set | | |
| | Lavatory Faucet, Lever-type, Stainless, Heavy-Duty (Water Efficient) | 3 | set | | |
| | Kitchen Sink, Single Tub, Stainless | 1 | set | | |
| | Kitchen Sink Faucet, Lever-TypeSingle Tub, Stainless | 1 | set | | |
| | Water Closet, Kiddie, Tank Type (Water Efficient) | 2 | set | | |
| | Water Closet, Tank Type (Water Efficient) | 1 | set | | |
| | Accessories | | | | |
| | Angle Valve, One-way, Stainless Steel | 4 | piece | | |
| | Angle Valve, Two-way, Stainless Steel | 3 | piece | | |
| | Flexible Hose, Stainless Steel | 7 | piece | | |
| | Miscellaneous and Consumables | - | Proces | | |
| | 400cc Solvent Cement | 10 | can | | |
| | All Around Sealant | 5 | can | | |
| | Hacksaw Blade | 10 | piece | | |
| | Teflon Tape | 10 | roll | | |
| | Waste Cloth | 2 | kg | | |
| | ., acto 6.6 | _ | 9 | Materials Cost D | ₽ |
| | | | | Labor Cost D | - |
| | | | | Direct Cost D | ₽ |
| | | | | 200. 000. 2 | • |
| Е | ELECTRICAL WORKS | | | | |
| _ | Roughing-ins, Pipes and Fittings | | | | |
| | 20mmØ PVC Pipe | 70 | piece | ₽ | ₽ |
| | Fittings and Accessories | . • | Picce | | |
| | 20mmØ PVC Adaptor | 80 | piece | | |
| | 20mmØ PVC Locknut and Bushing | 80 | pair | | |
| | 20mmØ PVC Elbow | 11 | paii | | |
| | 50mm x 100mm PVC Utility Box | 20 | piece | | |
| | 100mm x 100mm PVC Junction Box with Cover | 20 | piece | | |
| | Wires and Cables | 20 | piece | | |
| | 3.5mm² THHN Wire | 3 | roll | | |
| | 3.5mm² TW Wire | 2 | roll | | |
| | Lighting Fixtures (Energy Efficient) | | roll | | |
| | 600mm x 1200mm, 2 x 18w LED, Troffer Type With Complete Accessories, Recessed Type | 4 | set | | |
| | 18W LED Bulb With Receptacle | 3 | set | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|---|-----|-------|-----------|------------|
| | Pinlight 150mm 18 Watts | 11 | piece | | |
| | Wiring Devices and Other Fixtures | | | | |
| | Wall Fan | 2 | set | | |
| | Weatherproof Outlet With Ground And Cover, Two-Gang | 11 | piece | | |
| | Switch with Plate & Cover, One Gang | 5 | piece | | |
| | Switch with Plate & Cover, Two Gang Switch | 1 | piece | | |
| | Switch with Plate & Cover, Three Gang Switch | 1 | piece | | |
| | Enclosure: NEMA 1 | 1 | assy | | |

| ITEM NO | WORK DESCRIPTION AND SCOPE OF WORKS | QTY | UNIT | UNIT COST | TOTAL COST |
|------------|-------------------------------------|-----|-------|-------------------|------------|
| | Pipe Hangers & Supports | | | | |
| | Horizontal layout of pipe | 20 | l.m. | | |
| | Miscellaneous & Consumables | | | | |
| | 400cc Solvent Cement | 2 | can | | |
| | All around Sealant | 2 | can | | |
| | Electrical Tape | 15 | roll | | |
| | G.I Tie Wire | 3 | kg | | |
| | Hacksaw Blade | 3 | piece | | |
| | Masking Tape | 3 | roll | | |
| | Rubber Tape | 3 | roll | | |
| | | | | Materials Cost E | ₱ |
| | | | | Labor Cost E | |
| | | | | Direct Cost E | ₱ |
| | | | | | |
| | | | | MATERIAL COST III | ₱ |
| | | | | LABOR COST III | |
| | | | | DIRECT COST III | ₱ |
| | | | | | |

SUMMARY

| ITEM NO | WOR | K DESCRIPTION & SCOPE OF WORKS | TOTAL COST | |
|------------|---|--|------------|--|
| - = = | GENERAL REQUIREMENTS CONSTRUCTION OF HANDWASHING FACILITY REHABILITATION OF FAIRVIEW DAYCARE CENTER | | | |
| | enforce health protocol relative to the applicable DPWH Memorandum. | TOTAL DIRECT COST Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit 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.

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

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

[Jurat]

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 | | CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, | TOTAL | DATE OF | TOTAL | PERCE | PERCENTAGE | |
|---|---------------------|------------|---|----------------|---|-------------------------------|---|---|-------------------------------|--------------------------|--|
| (Name of the Contract) B. EXACT PROJECT LOCATION | DATE OF CONTRACT | DURATION | PROJECT OWNER & POSTAL ADDRESS | NATURE OF WORK | INTEREST IN A 3/) and PERCENTAGE OF PARTICIPATION | CONTRACT VALUE AT AWARD | COMPLETION of ESTIMATED COMPLETION TIME | VALUE AT COMPLETION IF APPLICABLE | ACTUAL ACCOMPUSHMENT | PLANNED ACCOMPUSHMENT | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | 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 DURATION | 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 |
|---|---------------------|----------------------|-----------------------------------|----------------|---|--|--|--|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | - 6 | |
|-----------|-----|--|
| Page | 454 | |
| F 94.80/w | | |

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

| NAME OF CONTRACTOR: | 0-2 | | |
|---------------------|-----|--|--|
| DDO ISCT TITLE | | | |
| PROJECT TITLE: | | | |

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

| Page | | |
|-------|-----|--|
| 1 age | 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 | 174 | |

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

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

| KELO | | | |
|--|---|-----------------------------|----------|
| 58 | AFFIDAVIT OF UNDERTAKING | | |
| REPR | I, of legal age, Filipino, | OFFICER | OF |
| with o | office address at g been duly sworn to in accordance with law, hereby voluntary depose and state | | afte |
| лачиц | | : _to execute | this |
| | That [Name of Bidder] bidding for the (Name of Project) | | |
| | That relative to the aforementioned Project, the <u>[Name of Bidder]</u> hereby that the equipment to be use and the key personnel to be assign shall exclusive will only perform to the said project until its completion. | y undertake ly be used a | e and |
| | That I am executing this affidavit to attest to the truth of the foregoing and in c with the submission of the technical requirements for the public bidding of the | ompliance said projec | t. |
| of | IN WITNESS HEREOF, I have hereunto signed my name below thisat, | | day |
| | AFFIANT FURTHER SAYETH NAUGHT. | | |
| | Affiant | | |
| | SUBSCRIBED AND SWORN TO BEFORE ME this day of | | _ |
| affiant | | _ issued | at |
| Doc. No Page No Book N Series o | D. ; O. ; | | |

Notary Public

