# PHILIPPINE BIDDING DOCUMENTS

# Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 / AREA VIII (CLUSTER 1)

Project number: 22-00030

Sixth Edition July 2020

#### **Preface**

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

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

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

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

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

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

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

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# Glossary of Terms, Abbreviations, and Acronyms

**ABC** – Approved Budget for the Contract.

**ARCC** – Allowable Range of Contract Cost.

**BAC** – Bids and Awards Committee.

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

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

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

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**CDA** – Cooperative Development Authority.

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

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

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

**CPI** – Consumer Price Index.

**DOLE** – Department of Labor and Employment.

**DTI** – Department of Trade and Industry.

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

**GFI** – Government Financial Institution.

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

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

**GOP** – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC - Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PCAB** – Philippine Contractors Accreditation Board.

**PhilGEPS** - Philippine Government Electronic Procurement System.

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

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**UN** – United Nations.

#### Section I. Invitation to Bid

#### **Notes on the Invitation to Bid**

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

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

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

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



# REPUBLIC OF THE PHILIPPINES QUEZON CITY GOVERNMENT BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE &



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

February 8, 2022

#### Invitation to Bid

No +	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
Ви	ildings -	- Small B					
1	21- 00157B	Proposed Construction of Hand Washing Facility at Payatas C Elementary School	Payatas	1,278,401.32	60	Engineering Dept	Special Education Fund
2	22- 00020	Proposed Upgrading of Electrical System at San Vicente Elementary School	San Vicente	1,520,269.09	90	Engineering Dept.	Special Education Fund
3	22- 00021	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area V and VI	Balingasa, Manresa and Sta. Tersita	1,935,806.59	60	Engineering Dept.	Engineering Department
4	22- 00022	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area IV	Mariblo and Talayan	3,338,152.13	75	Engineering Dept.	Engineering Department
5	22- 00023	Proposed Rehabilitation of Electrical System at Diosdado P. Macapagal Elementary School	Tatalon	3,363,516.00	90	Engineering Dept.	Special Education Fund
6	22- 00024	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area I	Bagong Pag-Asa, Project 6 and Sto. Cristo	3,881,427.69	90	Engineering Dept.	Engineering Department
7	22- 00025	Proposed Rehabilitation of Electrical System at Pugad Lawin High School	Bahay Toro	4,405,341.15	120	Engineering Dept.	Special Education Fund
8	22- 00026	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area II	Bahay Toro, Katipunan and San Antonio	6,205,275.26	90	Engineering Dept.	Engineering Department
9	22- 00027	Proposed Rehabilitation of of SDEC Building at Barangay Milagrosa	Milagrosa	6,375,076.19	120	Engineering Dept.	Engineering Department
10	22- 00028	Proposed Rehabilitation of Electrical System at Pura V. Kalaw Elementary School	Milagrosa	6,421,965.23	120	Engineering Dept.	Special Education Fund
11	22- 00029	Proposed Construction of Hand Washing Facility and Rehabilitation of Day Care Center at District 1 Area III	Bungad, Nayon Kanluran, Paltok, Sta. Cruz and Veterans Village	9,489,328.13	90	Engineering Dept.	Engineering Department

12	22- 00030	Proposed Rehabilitation of Day Care Center at District 5 / Area VIII (Cluster 1)	Greater Lagro, Fairview and North Fairview	9,857,947.75	90	Engineering Dept	Engineering Department
13	22- 00031	Proposed Construction of Additional two (2) storey and Improvement of Existing two (2) storey Kaunla Multi-Purpose Livelihood Center, Barangay Kaunlaran, Quezon City		24,800,293.60	270	Engineering Dept.	20% CDF
Flo	od Con	trol – Small B					
14	22- 00032	Proposed Rehabilitation of Alley and Construction of Reinforced Concrete Retaining Wall at Odelco Riverside	San Bartolome	9,364,427.28	150	Engineering Dept.	Local Disaster Risk Reduction and Management Fund
Ro	ads – Si	mall B				•	
18	22- 00033	Proposed Rehabilitation of Manhole Covers and Surface Improvement at M. Agoncillo Street	Novaliches Proper	1,262,339.58	60	Engineering Dept.	20% CDF
19	22- 00034	Proposed Rehabilitation of Road and Drainage at Tandoc Property Urban HOA, Inc.	Gulod	1,619,893.25	90	Engineering Dept.	20% CDF
19	22- 00035	Proposed Rehabilitation (Surface Improvement) at Camarin Avenue	Kaligayahan	2,716,606.23	20	Engineering Dept.	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 9 February 2022 (Wednesday) from given address and website/s below and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.

#### STANDARD RATES:

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

The following are the requirements for purchase of Bidding Documents;

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

It must be duly received by the BAC Secretariat at 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound on or before February 16, 2022 - 5:00PM.

 The QC- BAC- INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference<sup>1</sup> on February 17, 2022 at 10:00 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) which shall be open to prospective bidders.

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

- Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before March 2, 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 2, 2022 10:00 AM at 2<sup>nd</sup> 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.

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.

#### 11. For further information, please refer to:

#### ATTY. DOMINIC B. GARCIA

OIC, Procurement Department 2<sup>nd</sup> 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: <a href="https://quezoncity.gov.ph/public-notices/procurement/">https://quezoncity.gov.ph/public-notices/procurement/</a>

By:

Chairman, BAC-Infra and Consultancy

## Section II. Instructions to Bidders

#### **Notes on the Instructions to Bidders**

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

#### 1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 / AREA VIII (CLUSTER 1), with Project Identification Number 22-00030.

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

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

#### 2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for 2022 in the amount of Nine Million Eight Hundred Fifty-Seven Thousand Nine Hundred Forty-Seven Pesos & 75/100 Ctvs. (P 9,857,947.75).
- 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 17, 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	Subcontra	cting is not allow	ved.		
10.3	No additional contractor license or permit is required				
	In addition	, eligible bidders	shall qualify or comply	with the following:	
	1. Bidders v	with valid Philipp	oine Contractors Accredi	itation Board (PCAB)	
	Type				
	Build	ling - Small B			
10.4	The minin following:	num work expe	rience requirements fo	or key personnel are the	
	PROP		LITATION OF GREA LAGRO II DAY CARI		
	Qnty. K	ey Personnel	General Experience	Relevant Experience	
	1 Pı	oject Engineer	3 years	3 years	
		WH duly accredit terials Engineer	ed 3 years	3 years	
	1 S	afety Officer	3 years	3 years	
	1	Foreman	3 years	3 years	
	16 S	killed Worker	3 years	3 years	
	1	Driver	3 years	3 years	
	8	Laborer	1 year	3 months	
	PROPOSED REHABILITATION OF NAMAPA DAY CARE CENTER				
	Qnty. K	Ley Personnel	General Experience	Relevant Experience	
	1 Pr	oject Engineer	3 years	3 years	
	1 S	afety Officer	3 years	3 years	

1	Foreman	3 years	3 years
6	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
5	Laborer	1 year	3 months
PR	OPOSED REHABIL	ITATION OF AVON	DAY CARE CENTER
Qnty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
6	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
8	Laborer	1 year	3 months
PRO	OPOSED REHABILI	TATION OF MMTC	DAY CARE CENTER
Qnty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years
1	DPWH duly accredite Materials Engineer	ed 3 years	3 years
1	Safety Officer	3 years	3 years
1	Foreman	3 years	3 years
6	Skilled Worker	3 years	3 years
1	Driver	3 years	3 years
4	Laborer	1 year	3 months
PR	OPOSED REHABIL	ITATION OF SITIO CENTER	URLINA DAY CARE
Qnty.	Key Personnel	General Experience	Relevant Experience
1	Project Engineer	3 years	3 years

•				
	1	DPWH duly accredited Materials Engineer	3 years	3 years
	1	Safety Officer	3 years	3 years
	1	Foreman	3 years	3 years
	8	Skilled Worker	3 years	3 years
	1	Driver	3 years	3 years
	15	Laborer	1 year	3 months
	notar		oing personnel shal	avit of undertaking duly l perform work exclusively ched bid forms.
10.5	The n	ninimum major equipment	requirements are th	e following:
	P	ROPOSED REHABILIT GREATER LAC	ATION OF GREA GRO II DAY CAR	
	Equip	oment	Capacity	Number of Units
	Powe Minor	ruck olding or Tools r Tools <b>DPOSED REHABILITAT</b>	TON OF NAMAP	1 as needed as needed as needed A DAY CARE CENTER
	Equip		Capacity	Number of Units
	Equip	ment	Сараспу	Number of Office
	Powe	ruck olding r Tools r Tools		as needed as needed as needed
	PR	ROPOSED REHABILITA	ATION OF AVON	DAY CARE CENTER
	Equip	oment	Capacity	Number of Units
	Powe	ruck olding r Tools r Tools		as needed as needed as needed

	PROPOSED REHABI	LITATION OF MMTC D	DAY CARE CENTER
	Equipment	Capacity	Number of Units
	Bar Cutter Elf Truck		1 1
	Welding Machine		1
	Power Tools		as needed
	Minor Tools		as needed
	Cut-Off Machine		as needed
	PROPOSED REHABILITATION OF SITIO URLINA DAY CARE CENTER		
	Equipment	Capacity	Number of Units
	Elf Truck		1
	Scaffolding		as needed
	Power Tools		as needed
	Minor Tools		as needed
12	notarized stating that the	must execute an affidav foregoing equipment shal etion. Please see attached b clause if allowed.]	l be used exclusively for
15.1	The bid security shall be in number, or any of the follows:	a the form of a Bid Securing owing forms and amounts:	g Declaration with project
	a) The amount of not less than Php 197,158.96 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		
		less than Php 492,897.39 or I security is in Surety Bond.	-
19.2		The infrastructure project in divided into sub-lots for ward.	1 0
20	No additional requirement		
21	Additional Contract Doct 1. Construction Schedule	uments relevant to the Pro	oject as required:
	2. Manpower Schedule,		
	3. Construction Methods		
	4. Equipment Utilization		
		acceptable tools of proje	ect scheduling, shall 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 90 calendar days
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: [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
15.2	payment  The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

# Section VI. Specifications

#### **Notes on Specifications**

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

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

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

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

#### Sample Clause: Equivalency of Standards and Codes

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

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

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



# Republic of the Philippines Quezon City

#### CITY ENGINEERING DEPARTMENT



Civic Center Building B. Quezon City Hall Compound, Elliptical Road Diliman, Central 1,100 Quezon City Fronkling: +63 2,8988,4242

# TECHNICAL SPECIFICATIONS QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF AVON DAY CARE CENTER >

LOCATION: BARANGAY NORTH FAIRVIEW, DISTRICT 5, QUEZON CITY

#### I. GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall beer 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.
- e. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- f. The quality of materials shall be of the best grace of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- g All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- h. Mobilization and Demobilization (if applicable)
  - Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
  - Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not enymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workman Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- Temporary Facilities and Utilities
  - All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.

- Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- iii Temporary util-ties shall be sufficiently provided until the completion of the project such as water power and communication.
- Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
- V Temporary roadways shall be constructed and maintained to sustem loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demolished, hauledout and disposed 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, if could be a building or room designated and used exclusively for the purpose and have a foor area of at least 15 square meters and a glazed window area of at least 2 square meters.
  - iii The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents
- Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

#### II. SITE WORKS

- A. All grades, knee, 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.

#### (II). CIVIL / STRUCTURAL WORKS

#### A. CONCRETE WORK

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

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

## Proportioning and Mixing

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

Cement : Sand : Gravel

Class 'A' - 1: 2: 3
 Class 'B' - 1: 2: 4
 Class 'C' - 1: 2 %

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

#### e. Forms

- i. General Forms shall be used whatever necessary to confine the concrete and shape 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 morter from the concrete. Forms shall be waterproof plywood and form lumber.
- Cleaning of Forms before placing the concrete, the contact surfaces of the formed half be cleaned of encrustations of mortar, the grout or other foreign material
- iii. Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and arring 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.

g. Conveying and Placing Concrete:

- i Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- ii Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- iii. Time interval between mixing and placing. Concrete shall be pieced before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- iv. Consolidation of Concrete = concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- v Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and 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 Cunng

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

#### i. Finishing

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

## B. MASONRY WORKS

a. Masonry Units (CHB);

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

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

Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiftener columns & limitel 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, clear, and greenish in color.

#### c. Mortar.

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

#### d. Pläster bond:

Apply plaster bond to all well area.

#### C. METAL WORKS

a. Description

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

#### Reference Standards.

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

- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 1978.
   Specification for the Design, Fabrication and Erection of Structural Steel for Buildings. Code of Standard Practice for Steel Buildings and Bridges; Specification for Architecturally Exposed Structural Steel
- AMERICAN WELDING SOCIETY (AWS): Standard Welding Symbols A2 058; Standard Welding Code D1 1-1973 (Rev 1-73 & 2-74) (To govern if in conflict with AISC)
- RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ): Specification for Structural Joints using ASTM A-325-76s Bolts.
- STRUCTURAL STEEL PAINTING COUNCIL (SSPC): Painting Manual, Vol. 1; Good Painting Practice, Painting Manual, Vol. 2; Systems and Specifications.

## Source Quality Control

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

## d. Product Delivery, Handling and Storage

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

#### e. Protection

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

## Field Quality Control.

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

## g. Materials

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

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

## h. Fabrication

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

#### Measurements

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

## Metal Surfaces

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

#### k. Construction

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

## I. Shop Fabrication

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

#### m. Submittate

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

## Delivery and Storage

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

## o. Welding

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

## p. Metal Purlins

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

## ROOFING WORKS

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

#### ARCHITECTURAL WORKS IV.

#### A. WALLS AND FLOOR FINISHES

- 50mm Concrete Topping for Tiles
   400mm x 400mm Non-skid Homogeneous Tiles including tile adhesive
- 600mm x 600mm Non-skid Homogeneous Tiles including tile adhesive.
- d. 400mm x 400mm Non-skid Homogeneous Wall Tiles

## B. CEILING FINISHES

a. 6mm this Fuber Cement Board including framing and accessores.

## C. DOORS & WINDOWS

Follow as per approved plan and specifications.

## O. PAINTING WORKS

 All primers, thinners and putty, also waterproofing for internal and external application. shall be the same brand as the specified material.

- Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of 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 surfeces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer
- f. Ali 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. Alt 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.
  - 6.1 Potable water supply system complete in all respects including out not limited to submittels, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.
  - B.2 Water service connections including but not limited to water meters. float valves. Any and all other works involve in providing the complete operation of the water supply system.
  - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittets, 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, submittate, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational
- C Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnal.
- D. Alt 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 ancess 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 Confractor 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 exemination and details shall be submitted for approval before any equipment is to be ordered.

- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales 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 of under approved protective coverings until required for use.
- t. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost
- M. All senitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceitings 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 system horizontalty. Each section shall comprise pipework and titting 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. Instell 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 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; faster inserts to forms and install reinforcing bars through openings at top of inserts.

- BB Install hangers and supports so that piping live and dead loads and stresses from movement with not be transmitted to connected equipment.
- CC, install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME 831.9 for building services piping.

#### VI. ELECTRICAL WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable)
- 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 tabel 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 IEEF 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
  - F 2.1 Rated for environmental conditions at installed location.
    - i. Indoor Dry and Clean Locations: NEMA 250, Type 1
    - Outdoor Locations: NEMA 250, Type 3R.
    - Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steal.
    - iv Other Wet or Damp Indoor Locations NEMA 250, Type 4.
    - v Indoor Locations Subject to Dust Falling Dirt, and Dripping Nancorreave Liquids. NEMA 250, Type 5 or Type 12.
  - F 2.2 Front: Secured to box with concealed time clamps. For surface-mounted tronts, match box dimensions; for flush-mounted fronts, overlap box.
  - F 2.3 Hinged Front Cover: Enlire front from hinged to pox and with standard door within hinged trim cover.
  - F 2.4 Skirt for Surface-Mounted Panel boards: Same gage and finish as panel board front with flanges for attachment to panel board walf, and ceiling or front.
  - F.2.5 Gutter Extension and Darrier Same gage and finish as panel board enclosure, integral with unclosure body. Arrange to isolate individual panel sections.

#### F.2.6 Finishes

- i Panels and Term. 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 topocat.
- Back Boxes. Galvanized steet Same finish as panels and trim.

- iii Fungus Proofing: Permanent (ungicidal treatment for overcurrent protective devices and other components.
- F 2.7 Directory Card: Inside panel board door, mounted in transperent 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-orduit equipment grounding conductors; bonded to box
  - F 4.3 Neutral Bus: 100 percent of phase bus 4 Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

CARMINA KANA, PURAGGANAN Planning and Programming Division

JOCELAN ANAONG A
Planning and Programming Division



## Republic of the Philippines Ouezon City

## CITY ENGINEERING DEPARTMENT



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## TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF GREATER LAGRO I AND GREATER

LAGRO II DAY CARE CENTER

LOCATION: BARANGAY GREATER LAGRO, 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 ansing 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 properly of the Government.
- Site venfication / inspection shall be conducted to validate the scope of works. No extra
  compensation and extension of time shall be given due to negligence or inadvariance.
- 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 Al! 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 disessembly, 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.
  - Temporary facilities shall be provided and maintained including sanifary facilities and tirst aid stations.
  - Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
  - Temporary enclosure shall be provided within the construction site with adequate guard lights, ravings 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 demotished, hauted-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.
  - The medical room shall be provided at 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.
  - tii 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 untowerd-incidents? accidents
- in. 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.

#### (I. 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 / demotition of existing structures shall be done in accordance to safety procedures.

## III. CIVIL / STRUCTURAL WORKS

#### A. CONCRETE WORK

a. Delivery, Storage and Handling: All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.

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

#### c. Materiats

- 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 situatine, organic materials or other substances that may be deleterious to concrete or stee!.
- iii Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates" Sand particle shall be course, sharp, clean free from salt, dust, loam, dirt and all foreign matters.
- iv. Coerse 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 targer 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.

#### 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%

- ii. Concrete mixture to be used for concrete shall conform with the structural requirements
- ini. 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 withstend the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently light to prevent loss or mortar from the concrete. Forms shall be ½1 waterproof plywood and form lumber.
- ii. Cleaning of Forms before placing the concrete, the contact surfaces of the formed half be cleaned of encrustations of mortar the grout or other foreign material.
- ni Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and sizing 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, liaky 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 tres. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

## g. Conveying and Placing Concrete.

- i Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- ii Placing concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to sogregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) maters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- iii. Time interval between mixing and placing. Concrete shall be placed before initial sot 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 commerced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- v. Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

## h Curing

- i General All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.
- ii. Moist Curing The surface of the concrete shall be kept continuously well by covering with burlep plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

## i. Finishing

- i. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for manor defects which can be easily repaired with patching with cement morter, or can be grounded to a smooth surface to remove all joint marks of the form works.
- Concrete Slabs on Fill. The concrete slabs on fill shall be faid 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. WATERPROOFING

#### Waterproofing:

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

#### b. Testing:

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

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

## IV. ARCHITECTURAL WORKS

## A. TILE WORKS

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

## B. PROVISION OF CABINET

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

#### 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 Manufacturer's specification and recommendation.
- Provide all-drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works
- 4 All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications
- All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished: masonry wall shall be treated with Neutralizer.
- f. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- g. All other surfaces endangered by stains and paint marks should be taped and obvered 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 finited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.
  - B.2 Weter 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.
  - 6.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational
  - B.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes fittings, valves, cleanout, drains, etc. Complete and operational
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F Physical sizes of all plant and equipment are to be similable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.

- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstend 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.
- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U. Drainage pipe shall be tested by filling the pipe with 3m, of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.
- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/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 stabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; faster, inserts to forms and install reinforcing bars through openings at top of inserts.
- BB tristall hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC Instell 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 tabel shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

#### F. PANELBOARDS

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

## F.2.6 Finishes:

- Panels and Trim: Steel and galvanized steel, factory finished immediately after deaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat
- Beck Boxes: Calvanized 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-discuit equipment grounding conductors; bended to box.
- F.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL tisted as suitable for nonlinear loads.

KHENNETT E. CHAN

Planning and Programming Division

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# Republic of the Philippines Ouezon City

## CITY ENGINEERING DEPARTMENT



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## TECHNICAL SPECIFICATIONS

QUEZON CITY BARANGAY PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF MMTC 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 venification / 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).
  - Mobifization 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 enymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.

- Execute work in strict accordance with the best practices of the trades in a thorough, substantial workmanlike manner by competent 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 stendard for the required types.
  - Temporery facilities shell be provided and maintened including senitary facilities and first aid stations
  - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
  - Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
  - Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
  - Upon completion of the work, the temporary facilities shall be demotished. heuled-out and disposed properly.
- k Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
  - A fully trained Medical Aids 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.
  - iv Additional safety precautions shall be provided in the observance of pandemic. Profocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent properly shall be provided to avoid unfoward incidents / accidents
- m. Final clearang 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 deaning and maintenance program.

#### II. SITE WORKS

- A. All grades, tines, levels and dimensions shall be verified as indicated on the plans and deteils. Any discrepencies or inconsistencies shall be reported before commencing to work.
- B. Removal / demolition of existing structures shalf 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 tayers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

## III. CIVIL / STRUCTURAL WORKS

## A. MASONRY

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

#### b. Sand:

S-1, washed, clean and greenish in color

#### c. Mortan

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

#### B. ROOFING WORKS

- a. The roof shall be covered with Ga 24 pre-painted G.I. no-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min 2 ½" max 3" long Tek screws. Ridge rolls hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The cooling shall be secured to the purties with min\_2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall tap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as properly line firewalls, shall be provided with Gauge 26 pre-painted plain G to 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.

## C. 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 Teating:

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. Caramic tiles shall be soaked in clean water prior to installation.
- d. Lay the tiles true to profile as specified in the plan.

#### B. PROVISION OF CABINET

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

#### C. FABRICATED DOORS & WINDOWS

All doors and windows must be in approved quanty 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 Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass finishes and other works.
- All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications
- All surfaces including masonry wall shall be thoroughly cleaned, puttled, sandpapered, rubbed and posished, masonry wall shall be treated with Neutralizer
- All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that those are not stained with paint and other painting materials prior to painting works.
- g. All other surfaces endangered by starns and paint marks should be taped and covered with oraft paper

## V. SANITARY / PLUMBING WORKS

- A. Compty with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B. Supply, installation and testing of the following
  - 8.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters valves bibbs insulation, ail accessories required for complete and operational of the system.
  - B 2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system

- 8.3 Soil waste and vanil system complete in all respect including but not limited to connection to existing sewer, submittats, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational
- 8.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves cleanout, drains, etc. Complete and operational
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work,
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- M. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation recessitates 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 melenals and equipment's required by the system at no additional cost.
- Equipment calalogue 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. Date 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.
- Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- Cleaning and flushing shall be carried out in sections as the installation becomes completed
- P The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.

- R Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in wells end ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be retested at the appropriate test pressure.
- The Sanifary Contractor must carry out any additional tests required by the end-user and/or approving agency
- U. Oramage pipe shall be feeted by filling the pipe with 3m, of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.
- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within fimits and under conditions indicated eccording to ASCE/SEL7.
- Y Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units
- Z Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and targer 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.
- B8. 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 sipe slopes and to not exceed maximum pipe deflections allowed by ASME 831.9 for building services piping.

#### VI. ELECTRICAL WORKS

- A. Comply with the current applicable codes, promances, 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 tredes 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 laber shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

## F. PANELBOARDS

F.1 Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.

- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
  - F 2.1 Rated for environmental conditions at installed location.
    - i. Indoor Dry and Clean Locations: NEMA 250, Type 1.
    - Outdoor Locations: NEMA 250, Type 3R.
    - Kitchen and Wash-Down Areas: NEMA 250, Type 4X stainless steel
    - iv Other Wet or Damp Indoor Locations: NEMA 250, Type 4
    - Indear Locations Subject to Dust Falling Dirt, and Dripping Noncompsive Liquids. NEMA 250, Type 5 or Type 12.
  - F.2.2 Front: Secured to box with concealed frim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
  - F.2.3 Hinged Front Cover: Entire front trim hanged to box and with standard door within hinged trim cover.
  - F.2.4 Skirt for Surface-Mounted Panelboards. Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
  - F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure, integral with enclosure body. Arrange to isolate individual panel sections
  - F.2.6 Finishes
    - Panets and Trim. Steel and galvanized steel, factory firmshed immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
    - Back Boxes Galvanized steal Seme finish as panels and frim.
    - Fungus Proofing: Permanent fungicidal treatment for overcurrent profective devices and other components.
  - F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover
- F.3 Incoming Mains Location: Top or Bottom
- F.4 Phase, Neutral, and Ground Buses
  - F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
  - 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 ponlinear loads.

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Planning and Programining Division

JOCEKAN AGNAONG

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# Republic of the Philippines Quezon (ity

## CITY ENGINEERING DEPARTMENT



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## **TECHNICAL SPECIFICATIONS**

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF NAMAPA DAY CARE CENTER

LOCATION: BARANGAY NORTH 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.
- 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 the standards and codes
- Mobilization and Demobilization (if applicable)
  - Mobilization shall include eli 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.
  - 4. 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 menner by competent workman Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- Temporary Facilities and Utilities
  - i All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types

- ii Temporary facilities shall be provided and maintained including sanifary facilities and first aid stations.
- iii Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- Temporary enclosure shall be provided within the construction sits with adequate guard tights, realings and proper signages.
- Yemporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demolished, hauledout and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
  - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged sofely 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 atrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - jv 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 properly shall be provided to avoid untowerd 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, leve's 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 / demolston of existing structures shall be done in accordance to safety procedures.

#### III. CIVIL / STRUCTURAL WORKS

## A. CONCRETE WORK

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

- 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 oits, acids, alkaline, organic materials or other substances that may be defeterious to concrete or steel.
- iii. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be course, sharp-clean free from salt, dust, loam, did and all foreign matters.
- iv Coarse aggregates shall be either natural grave) or crushed rock conforming to the 'Specifications' for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.

## d. Proportioning and Mixing.

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

Cement : Send : 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
- 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 end shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or morter from the concrete. Forms shall be W waterproof plywood and form lumber.
- Cleaning of Forms before placing the concrete, the contact surfaces of the formed half be cleaned of encrustations of mortar, the grout or other foreign material
- iii. Removal of Forms forms shall be removed in a manner which will prevent demage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and arring 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, flaky rust and scale, oil greese clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and lies. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

g Conveying and Placing Concrete:

- i Conveying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- iii. 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) maters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively competed into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- in. 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 spacing 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 wibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- v. Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of peams and stabs, 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 well by covering with burlap plashs or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing

#### Finishing

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

## B. MASONRY WORKS

Mesonry Units (CHB)\*
 100mm thick for all interior walls and 150mm thick for all exterior walls unless otherwise indicated

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

Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provido stiffener columns & lintel beams as specified in the structurel 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 send and water

## d Piester bond:

Apply plaster bond to all wall area

#### C. METAL WORKS

Description

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

#### Reference Standards

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

- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 1978: Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, Code of Standard Practice for Steel Buildings and Bridges, Specification for Architecturally Exposed Structural Steel
- AMERICAN WELDING SOCIETY (AWS): Standard Welding Symbols A2,058; Standard Welding Code D1 1-1973 (Rev 1-73 & 2-74) (To govern if in conflict with AISC)
- RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ): Specification for Structural Joists using ASTM A-325-76s Bolts.
- STRUCTURAL STEEL PAINTING COUNCIL (SSPC): Painting Manual Vol. 1. Good Painting Practice, Painting Manual, Vol. 2; Systems and Specifications

## Source Quality Control

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

## d. Product Delivery, Handling and Storage

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

#### e Protection

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

## f. Field Quality Control

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

## o. Materials

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

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

## h. Fabrication

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

#### i. Measurements

Before fabrication, provide necessary field measurements and verify all measurements

## Metal Surfaces

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

## k. Construction.

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

Joints exposed to weather shall be formed to exclude water

## Shop Fabrication

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

#### m Submittals

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

## n. Delivery and Storage

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

#### 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 lack weld exposed to connections.) Grind smooth visible weld in finished installation.

#### p. Metal Purlins

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

#### D. ROOFING WORKS

- a The roof shall be covered with Ga. 24 pre-painted Gil. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purtins with mir. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted Gil. nb-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. All roofing sheets adjacent to concrete hollow block and other mesonry walls such as property line firewells, 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 coofing sheets to prevent water from standing around the fasteners.

## IV. ARCHITECTURAL WORKS

## A. WALLS AND FLOOR FINISHES

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

## B. CEILING FINISHES

a. 6mm this Fiber Cement Board including framing and accessories

#### C. DOORS & WINDOWS

a. Follow as per approved plan and specifications.

## D. PAINTING WORKS

- All pomers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material
- Application shall be as per paint Manufacturer's specification and recommendation.

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

#### V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B. Supply, installation and testing of the following:
  - B.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.
  - B.2 Water service connections including but not limited to water meters, fixed valves. Any and all other works involve in providing the complete operation of the water supply system.
  - B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, velves, cleenout, 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.
- Hi. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.

- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural waskening 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 debns.
- Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactority within the requirements of this Specification and local regulations.
- Q The Contractor shall provide 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 renge for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the proework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency
- U. Orainage pipe shall be tested by fitting 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.
- Will trainage pressure pipe shall be hydraulic tested at minimum pressure 50 psl
- X Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEL7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units
- Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA Install building attachments within concrete slabs or attach to structural 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 poing. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- BB triskall 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. Orawings, 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 mitials 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 "Hangers and Supports 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 Dry and Clean Locations, NEMA 250, Type 1
    - vi. 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
    - Indoor Locations Subject to Dust Fatting 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 tynged trim cover.
  - F.2.4 Skirt for Surface-Mounted Panel boards: Same gags and finish as panel board front with flanges for attachment to panel board, wall, and ceiling or floor.
  - F.2.5 Gutter Extension and Barrier: Same gage and finish as panel board enclosure, integral with enclosure body. Arrange to isolate individual panel sections.

#### F.2.6 Finishes:

- Panels and Trim Steel and galvanized steel, factory finished immediately after cleaning and pretiesting with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topocat.
- Back Boxes: Galvanized steel Same finish as panels and trim.

- III Fungus Proofing. Permanent fungicidal treatment for overcurrent protective devices and other components
- F.2.7 Directory Card: Inside panel board door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Too 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 bax.
  - F.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus Neutral bus rated 200 percent of phase bus and Ut. listed as suitable for nonlinear loads.

CARMINA KAYA) HURAGGANAN Planning and Pregramming Division Davi JOCELYN ACNAONG Planning and Programming Division



# Republic of the Philippines Quezon City

## CITY ENGINEERING DEPARTMENT



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## **TECHNICAL SPECIFICATIONS**

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED REHABILITATION OF SITIO URLINA DAY CARE

CENTER

LOCATION: BARANGAY FAIRVIEW, DISTRICT 5, QUEZON CITY

#### I. GENERAL REQUIREMENTS

- a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations ordinances and standards without notice shall bear all cost arising therefrom.
- 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 poverning regulations, notify the implementing agency.
- d. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- Site verification / Inspection shall be conducted to validate the scope of works. No extra
  compensation and extension of time shall be given due to negligence or inadvertence
- f. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- g. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- h. Mobilization and Demobilization (if applicable)
  - Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
  - ii Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for his contract.
- Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike marker by competent workman. Provide a competent experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.

## j Temporary Facilities and Utilities

- i All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
- ii Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations
- Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication
- iv Temporary endosure shall be provided within the construction site with adequate quard lights, reilings 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 demalished, haufedout and disposed property.
- k Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
  - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duites
  - In 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 grazed window area of at least 2 square meters.
  - iii The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - Additional safety precautions shall be provided in the observance of pandemic Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent property shalf 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 until of work and shall be of condition expected for a building cleaning and maintenance program

## II. SITE WORKS

- 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 eccordance to safety procedures
- C. All excavations shall be made to grade as indicated in the pians. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.
- All beadfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, samping and rolling.
- 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 a progress.

### III. CIVIL / STRUCTURAL WORKS

#### A. CONCRETE WORK

- a. Detivery, Storage, and Handling, All materials shall be so delivered, slored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be dolivered 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 herem, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

#### Materials

- Cement for concrete shall contain to the requirements of specifications for Portland Cement (ASTM C = 150).
- iv. Weder 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 perficle shall be course, sharp, clean free from said 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 tivel fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars end forms.

## 5 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
- ii Consider 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 coveril has been added to the aggregates.

### e Forms

i General – Forms shall be used whatever necessary to confine the concrete and shape if to the required kines, 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.

- ii Cléaning of Forms before placing the concrete the contact surfaces of the formed half be cleaned of encrustations of mortar, the grout or other foreign material.
- Mi Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

### f Placing Reinforcement

Steel reinforcement shall be provided as indicated, together with all necessary wire tires, chairs, spacer supported and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scare, cit grease, clay and other coating and foreign substances that would reduce or dealtroy 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. Convoying concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segragation, or loss of ingradients. 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 readify into the corners and angles of the forms and around all reinforcement and imbodded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms ac that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embodded items, or olsowhere 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.
- Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and perfore 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 inscrited into lower cursed that have commenced initial set, and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by worators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- v Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of bearns and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same coment-sand ratios as used in congrete shall be first deposited to cover the surfaces.

## h Сигид

- General All concrete shall be maist 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 buriap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing

## i Finishing

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

#### B. MASONRY

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

#### b Sandi

S-1, washed, clean and greenish in color

#### c. Mortar

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

d Plaster bond:

Apply plaster bond to all wall area

#### C. ROOFING WORKS

- a. The roof shall be covered with Ga. 24 pro-painted G.I inb-type roofing sheets as shown on the plans. The roofing shall be secured to the pullins with min-2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls, and valleys to be used shall be those compatible with the Ga-24 pre-painted G.I rib-type roofing sheets. They shall be riveted to the roofing sheets at least 25/lmin. The ridge rolls, hip tolis and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rio-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min-2 ½" max-3" long. Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveled to the coting sheets.
- All reading sheets adjacent to concrete hollow block and other masonry waits such as property line frewalls, shall be provided with Gauge 25 pre-painted plain G.I. Freshing to extend to the top and over to the other side of the wall. All tasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from stending around the fasteners.

#### IV. ARCHITECTURAL WORKS

#### A. TILE WORKS

- a. Both broken and unbroken old tiles must be ohip-off
- b Surface should be smoother & clean.
- Homogeneous lites shall be soaked in clean water prior to installation.
- di Lay the bles true to profile as specified in the plan.

#### B. PROVISION OF CABINET

- a. Good Lumber must be 21 x 2" x 10" for support frames and main frames.
- b. 18mm thick Plywood must be used.
- Countertog must be finished with 200mm x 300mm Tites.

#### C FABRICATED DOORS & WINDOWS.

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

#### D. PAINTING WORKS

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

#### V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinarioss, and regulations of the authority of authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- B Supply, installation and teating of the following.
  - B.1 Potable water supply system complete in all respects including but not limited to submittals, shop grawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete end operational of the system.
  - B.2 Water service connections including but not limited to water meters, flost valves. Any and all other works involve in providing the complete operation of the water supply system.
  - 8.3 Soft waste and vent system complete in all respect including but not fimited to connection to existing sewer submittals, shop drawings, pipes fittings, valves, cleanout, drains, etc. Complete and operational
  - 8.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage submittals, shop drawings, pipes fittings, valves, cleanous drains, etc. Complete and operational.

- C. Winkmanship 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 meat 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 setecting makes and types of equipment, the Contractor shall ascertain that facilibes for proper maintenance, repair and replacement are provided.
- Where the Contractor proposes to use an item of equipment other than that specified or detailed to the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination
  and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost
- M. All sanitary fittings and pipework shall be cleaned after installation and keep themin a new condition.
- N. Att installed pipelines shall be flushed through with water, rouded when necessary to ensure clearance of debris.
- Cleaning and flushing shall be carried out in sections as the installation becomes completed
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning 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 festing of pipework. The test pump shall be filled with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydrautic tests shall be carried out as the pipework is instalted and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- The Sanitary Contractor must carry out any additional tests required by the end-user end/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. Dramage pressure pipe shall be nythaulic tested at minimum pressure 50 psi
- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity toads 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 truiting 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. Postall concrete inserts before concrete is placed, faster inserts to forms and install reinforcing bars through openings at top of inserts.
- 8B. Install mangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equapment.
- 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 copes 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 tabel shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

### F. PANELBOARDS

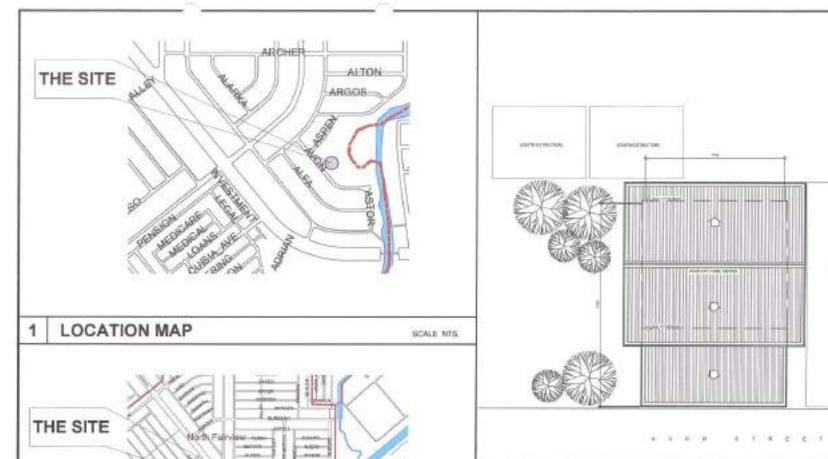
- F.1 Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 15073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively
- F.2 Enclosures Flush, Surface, Flush, and surface-mounted cabinets
  - F.2.1 Rated for environmental conditions at installed location
    - Indoor Dry and Clean Locations NEMA 250 Type 1
    - Outdoor Locations NEMA 250, Type 3R.
    - Kitchen and Wash-Down Areas. NEMA 250, Type 4X, stainless steal.

- 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.
- Fig. 5 From Secured to box with concealed from clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, even ap 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 fianges for attachment to panelboard, walk, and cesting or floor.
- F.2.5 Gutter Extens-on and Barrier Same gage and finish as panelboard enclosure integrat with enclosure body. Arrange to isolate individual panel sections.
- F.2.5 Finishes:
  - i Panels and Trim: Steel and galvenized steel, factory finished immediately after cleaning and pretreating with manufacturer's stendard two-coat, baked-on fin-sh consisting of prime coat and thermosetting topcoss.
  - 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 pane/board door, mounted in fransparont 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: Hand-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 Division TOORLYN'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.]



Reprovint treatment

Deliver constant

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**ARCHITECTURAL** AR-1 VICINITY MAP LOCATION PLAN BITE DEVELOPMENT PLAN ARIO FLOOR PLAN (EXSTING) FLOOR PLAN (PROPOSICI) AR-S REFLECTED CEILING PLAN ROOF PLAN AR-4 FRONT ELEVATION RIGHT BIOG BLEVATION READ ELEVATION SECTION THRU W AFFS - RICHEDULE OF DOORS AND WINDOWS AND LETTERING CETALS HANGING CASIVET DETAILS UNDER COUNTER CARNET DETAILS ARY TYPICAL GRILLER DETAILS REDDY HAND WARRING DETACLS GATE AND FENCE DETAILS STRUCTURAL ST-1 DENERAL NOTES CANOFY ROOF PRAYENC PLAN

> CONCRETE STAIRS DETAILS. PLUMBING

PL-1 GENERAL NOTER AND LEGENDS GREAGE TRAP DETAILS CATCH BASIN / AREA DRAIN DETAILS. SEPTIC TANK DETAILS WATER LINE LAYOUT KEDDY HAND WASHING DITIALS

CANORY TRUSS DETAILS

ELECTRICAL

EL-1 GENERAL NOTES LEGENOS AND SYMBOLIS MISCRI LANGOUS DETAILS EL 2 PANEL SCARG DIAGRAM SCHEDULE OF LOADS SITE DEVELOPMENT PLAN SINGLE LINE DIAGRAM SERVICE ENTRANCE OFFICE ELG LIGHTING LAYOUT (EXISTING) POWER LAYOUT (EXISTING) EL-4 LICHTING LAYOUT (PROPOSICE) POWER LAYOUT (PRUPOSED)

VICINITY MAP

SCALE NYS.

SITE DEVELOPMENT PLAN

SCALE NTS

APPROVED BY

Republika ng Pilipines Lunused na Queen CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF AVON DAY CARE CENTER / MORNON

BROY, MORTH FARMEN, DISTRICT'S GUESON DITY /

PROJECT TITLE:

DELVISOR OF THE DATE - 08/08/01 оножене Ж PENISON NO.



ENGR. RAGANI R. VERZOSA, JR. DO. DEN EN PREZIMO DESMENSIE

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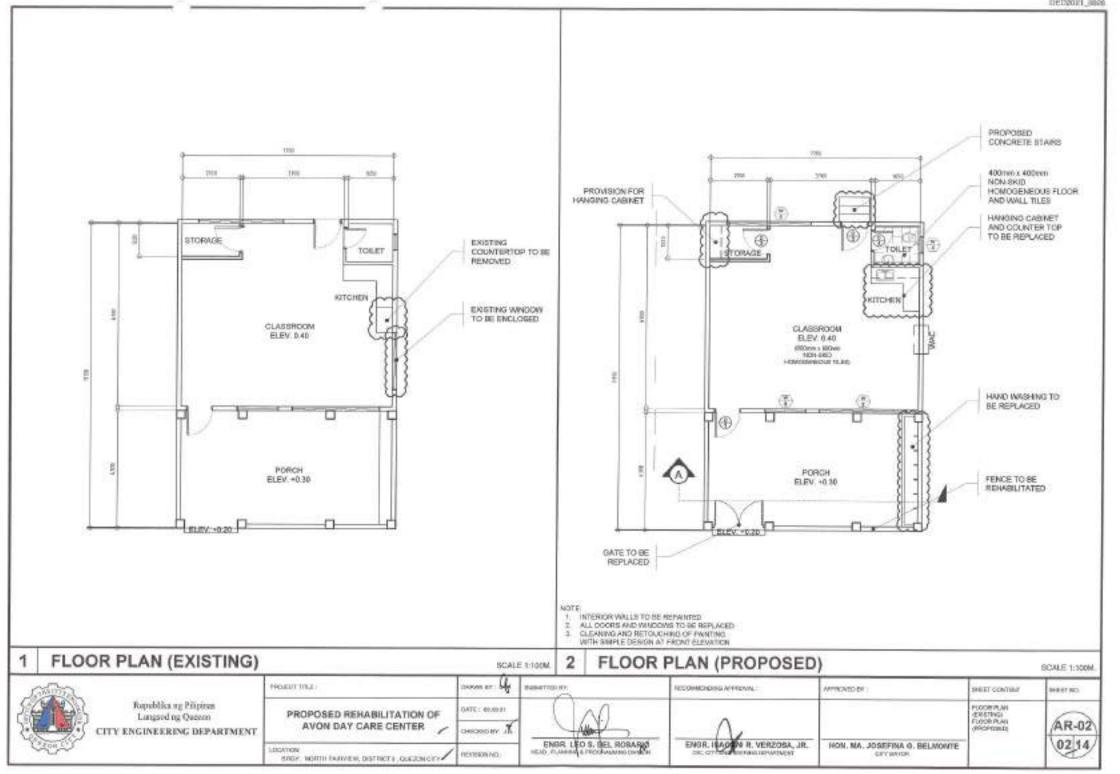
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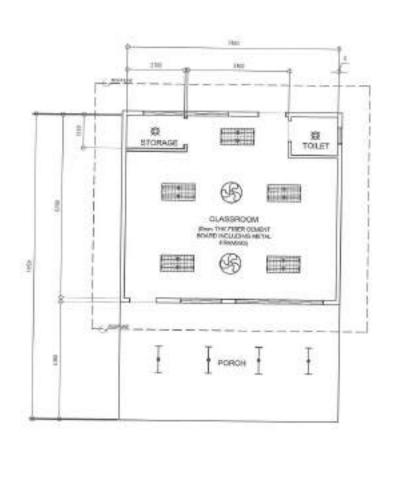
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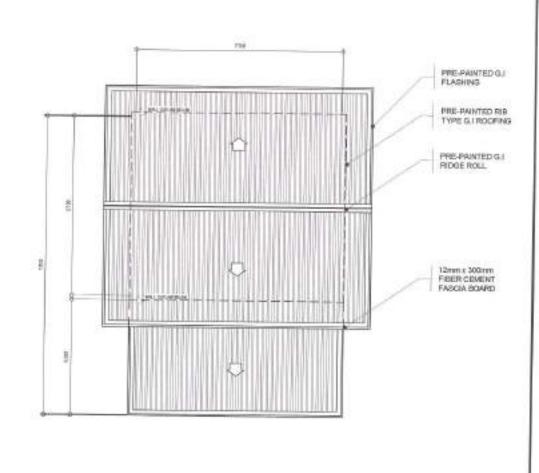
SHEET CONTENT.



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REFLECTED CEILING PLAN

SCALE 1:100M. 2 ROOF PLAN

1. ROOFING AND ACCESSORIES TO BE REPLACED.

SCALE 1:100M.

Republika ng Pilipinas Langsod ng Queson CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF AVON DAY CARE CENTER

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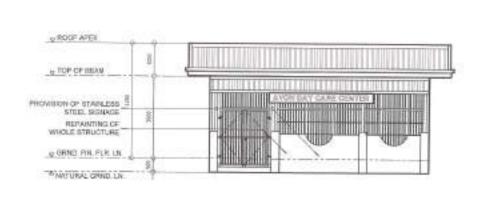
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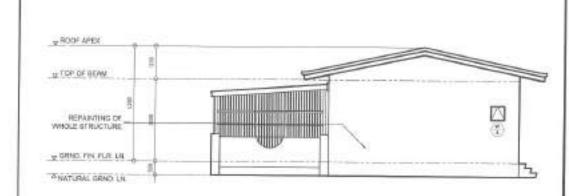
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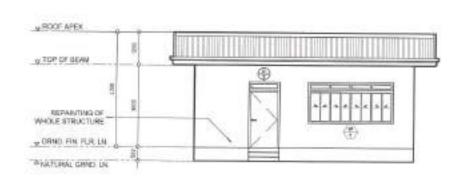


FRONT ELEVATION

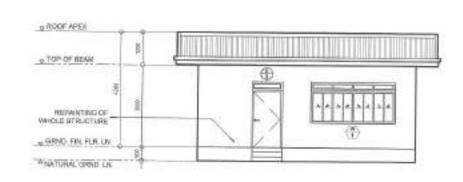
SCALE 1/100M.

RIGHT SIDE ELEVATION

80ALE 1:100M.



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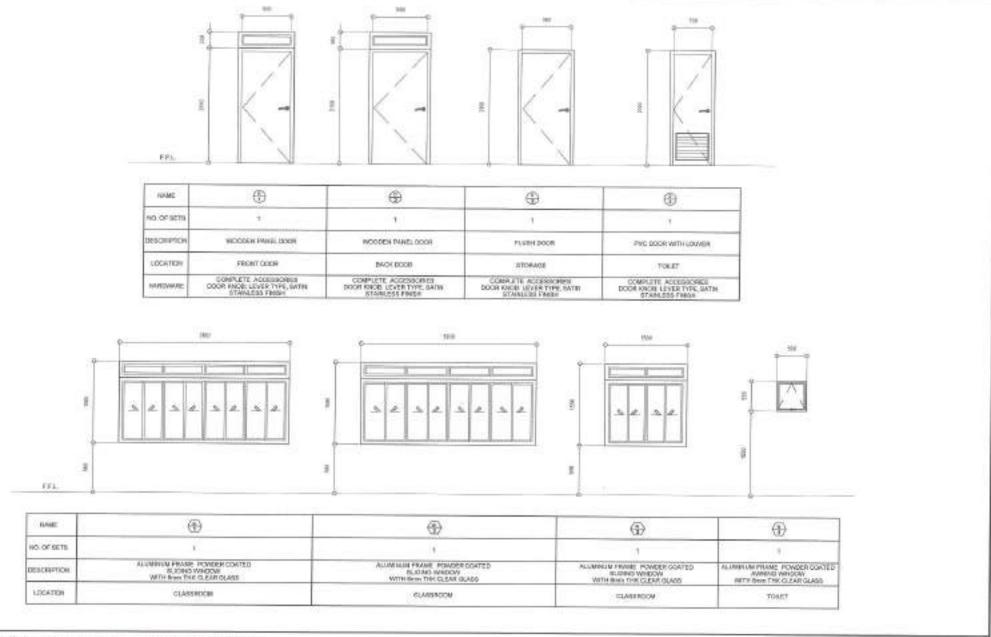
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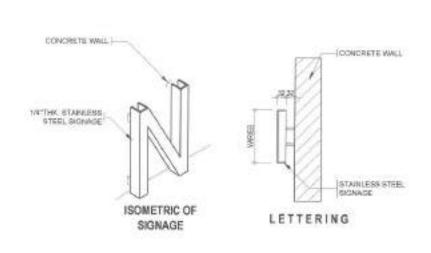
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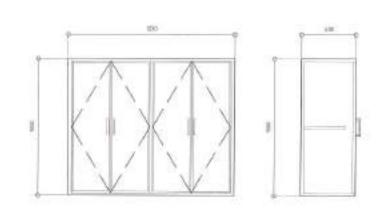
RECTOR THRU W HOW MA. JOSEPHA G. BELMONTE

PRONT ELEVATION RIGHT SIDE ELEVATION AR-04







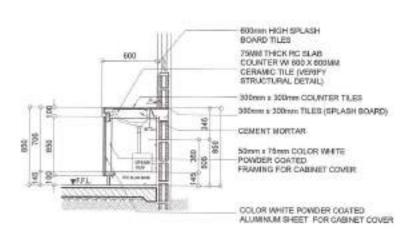


LETTERING DETAILS

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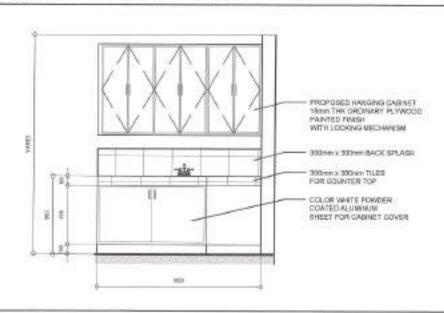
2 HANGING CABINET DETAILS

SCALE 1:30M.



PROBERT TITLE

LOCATION



APPROVED BY

## 3 UNDER COUNTER CABINET DETAILS

SCALE 1:30M.



Republika ng Pilipinas Lungsod ng Queen CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF AVON DAY CARE CENTER

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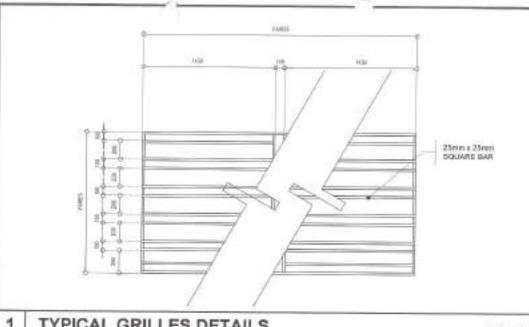
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HON. MA. JOSEFINA O. BELMONTE

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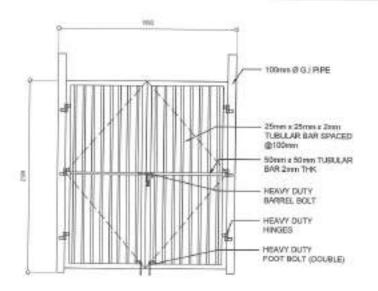
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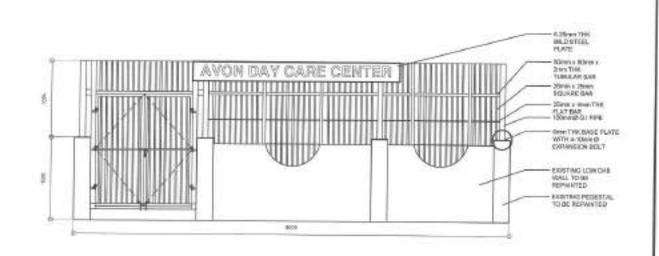
TYPICAL GRILLES DETAILS

SCALE LOOM.

KIDDY HAND WASHING DETAILS

SCALE 1:30M





## **GATE AND FENCE DETAILS**

SCALE 1:50M SHITTING.

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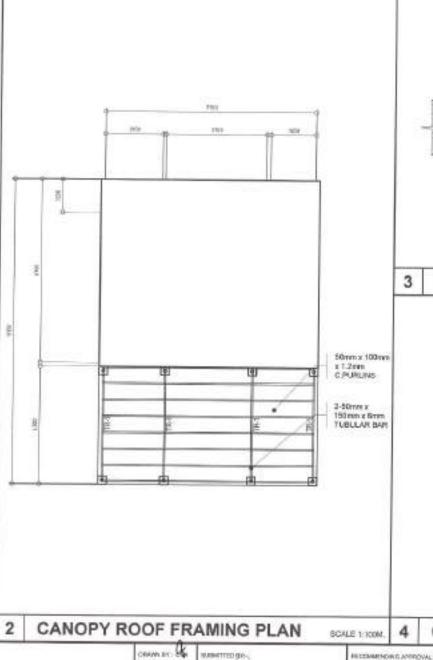
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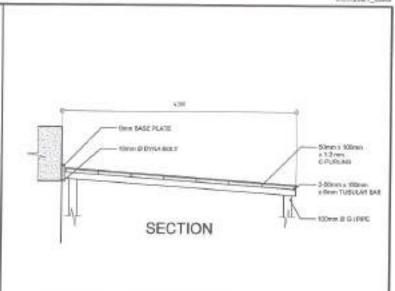
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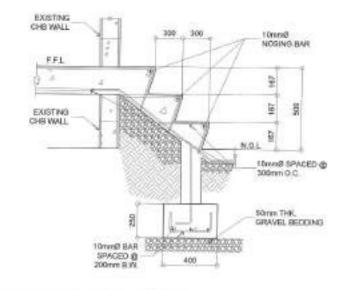
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SCALE 150M



## CONCRETE STAIRS DETAILS

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Republika ng Pilipenas Lungsod ng Queeon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF AVON DAY CARE CENTER

BROY, MORTH FARMER, DUTNICTA, QUEDON CITY!

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ENGR. LEO S. DEL ROBANO
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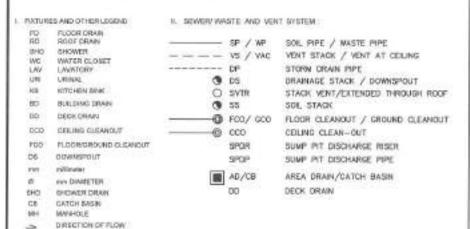


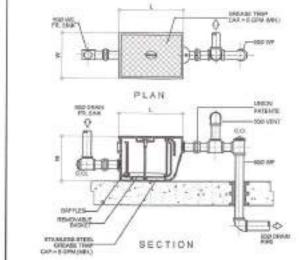
- 1. All plurating works and metrorism indicated benote shall be compliant to the provisions of the ratest edition of fluctuating Code, the same and segments of local. mafforfiles concerned. The rules and regulations of local stifty companies and the provisions of the land developes when real school specialisis.
- If the planting is you'll by very degree wells, pages, observab and shart solves shall be conqueind as much as possible. It is not interested to show the extra disservant of the piper and fictions to the change for all the coins and fictions chall be included as and whose included. Any extension will regular proper proper proper to achieve in making with
- 3 The planting contractor shall write all existing utilities at the absent shall constitute the work with other beater.
- A Pipos of sell not be enthedded in abustanel scandors unless otherwise specified or allowed.
- 6 Milliarrum dope for its sportal sever less shall be 1% and for shain lines shall be 5%.
- 6 Proposed planning affilies shall confirm with the united lessales, depth and invest planeters of all unding pipealutilises.
- If Core action of feduration open, and fittings shall be according to manufacturar's specificalisms.
- 8 All Roor driens shall be verted individuals.
- 9 All clean cut forming shall be Signif-document to unell and shall be provided with polarized occurs days. No not invest fock them outs invest at time on greate and common
- 49 All and exposured GLI pipers in direct contact with and what has provided with two (2) coats of protective for counting and wrapped with pine youth the country and wrapped with pine youth the country and coats of protective for country and wrapped with pine youth the country and coats of protective for country and wrapped with pine youth the country and coats of protective for country and wrapped with pine youth the country and coats of the coats for or septent.
- If I Provide work stack and sent pipe thre read of coat than earlies aways as required.
- 12 All cost transplace shall be of approved quality and G.I. paper for water claims, don lines also be School as 4.8 (J.E. absolute weight).
- 12 Provide gate valves to all water supply lines to fictives.
- 18 65 hat water lims shall be provided will proper insolution aftern evidened.
- 35 Al intividual transmiss to Returns or group of faciums analize appreciate shall be prouded with all characters or capped vertical pipe extensions of disservation as:
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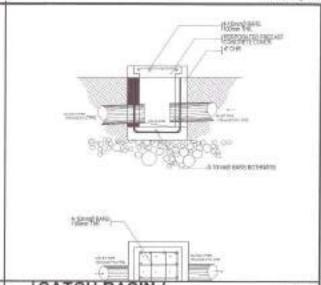
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- 18 All fema biblioushed by 19 was O (SAT O), or less otherwise indicated
- 17 Well place of securic facilities SR renn higher than the spakery place values in 20 min higher than the cubblishes.
- 18.60 planting werks and market of constructor shall be under the direct reposition of an abia and duly located Master Flatter or Registered Seatlery Engineer. Any discrepancies found in plan shall be expliced to be expreperatur.



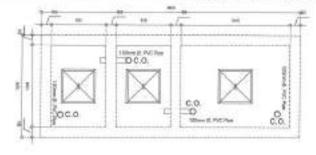


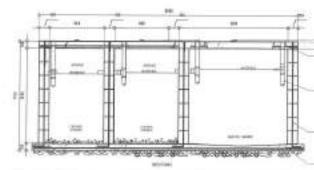


2 GREASE TRAP DETAILS

BOALE-ATE

BCALE: NTS.





12 mm of STD, GPD, CRAB BAR. MOUNTED ON CONG. COVER. 12 mm @ STWIDARD GRACE REBARD SPACED #4 30 N O C 8 W

4" Ø PVC BREXTHES AND INLESPARE EMBEDDED TO CHE SEPTIC TANK WALLS OVERTICAL SEPTIC TARR PLANS

6" THIS CHE SEPTIC DANK WALL WITH 10 year 8" REBARD SPACED & 100m FOR VER, REBARD & @ EVERY 3 LAYER

12 rain 8 STD, GRO, REBARS SPACED @ 130 M 0.C.8 W.

PROPOSED REHABILITATION OF AVON DAY CARE CENTER

BROY, NORTH VARYEN, DISTRICT S. QUESTING FY

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ENGR. LIED S. DEL ROSARIO

SEPTIC TANK DETAIL



ECOMMENDING APPROVAL

EDDATE

HON, MA, JOSEFINA G, BELMONTE

**CEY MAYOR** 

MPROVIDER:

SCHOOL NOTES AND PREASE TRAPTECIALS CONHINA CHAH YOUR EPYTIC TANK DETINUE

NAME OF TAXABLE



ON TERRE

SCALE: NTS

## **GENERAL NOTES & LEGENDS**

Republika ng Pilipinas

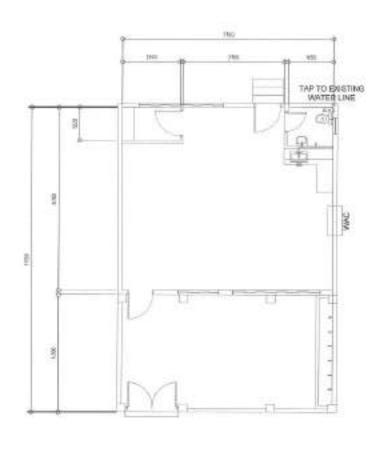
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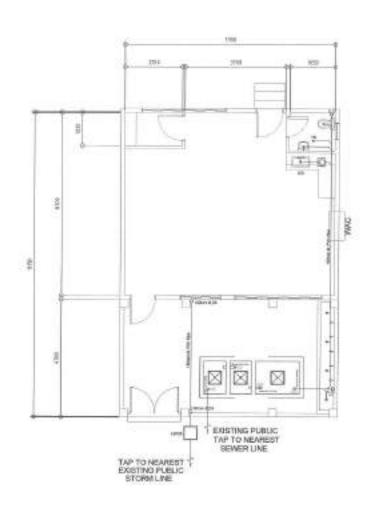
CITY ENGINEERING DEPARTMENT

## PROMETT TITLE:

## DESCRIPT: MA

ENVERTANCE:





WATER LINE LAYOUT

SCALE THOMA

STORM/SEWER LINE LAYOUT RECOMPENDED APPROVIDE:

SCALE 1:100M SHEET NO.

SHEET CONTENT

Republika ng Pilipinas Lungsod ag Quation CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF

BROY, MISTER EWINNEW, DISTRICTS, QUEZONISTY &

PROJECT TITLE:

DATE: ORDER AVON DAY CARE CENTER DE NE STRONG REMSON NO.



CHOR CONTRACTOR R. VERZOSA, JR.

WATER LINE LINGUT STORMS SOWER LINE LICHOLT HOW MA. JOSEPINA G. BELMONTE STUMMEN

APPROXIMENT.

PL-02 10 14

- AL BLECTRICAL WORKS SHALL BE CODE BY ACCOMPANIE WITH THE PROPERTY OF THE LATEST EDITION OF THE PROPERTY. ELECTRICAL DIDD. THE LAND WISD ORDINANCES OF THE LOCAL CODE EMPORCHIC AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE LITELTY COMPAUN
- 2. THE CONTRACTOR ZHALL SECURE ALL PERMITS AND PAY ALL PIETS REQUIRED FOR THE WORK AND ISSUE, PLATMENTING CREET THROUGH THE ENGINEERS. KNAL GERTING ATES OF ELECTRICAL PROPORTION AND APPROVAL FROM PROPER GOVERNACHT AUTHOR/TIES FOR COMPLETION OF WORK.
- 3. ALL EMPRISONS BRANCH CRACUITS SHALL BY PAYL CONDUCTS AND FOR EXPOSED INSTRULATION IS NULL BE BIG SUPPORTING BY CONDUIT CLAMPS EVERY YOURS METERS
- 4. FULL BOXES SHALL BY PROVIDED BY THE CONTRACTOR MARKET VER INCOMMAN TO PRODUTE WAR IN LUND EVEN AT THESE ARE BOT HONOATED ON THE PLANS. SIZING OF AU. PULLBONES SHALL BE CONFUTED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVING PRICE TO PARRICH/TO LOCATION OF PLAUSINGS SHALL BY APPROVING THE ARCHITECTERGREEN AND MUST BE REPLECTED ON THE WOLBILLT PLAN.
- 5. AU POWER DUTLETS AND SWITCHES BI-AU BE SKIDURGERS TYPE SETH PURRUAL BUSIN POR SET V
- 4. PROVICE DAYLED ALLEY CURRENT SUPPRESSED CROCK TORRESPOND CACCAMBRIES CACCAM
- ALL RETALLIC CONDUCTS, CARRIETS AND EQUIPMENT SHALL BE PROPERLY GROUPDED AND BOXBED.
- 3. URLESS STREPWISE NOTED, INSURTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BY AS FOLLOWS:

RECEPTAGLE OUTSUIT - 300 MW AFF ; 190MW NEWS INSPRING ISSUITS A TRUSPHONE DUTLET . MOHALOW CATY OUTLET - 300 MM APP LISHTING DWITCH - TICK MW APP

- III. REPRIT TO RECOVERED A LIMBORO AND PARE PROTECTION DEMANDER FOR INTEGER AND LOCATIONS OF FOURTHFUL AS WAY, AS THEIR CONTROL SEQUENCES AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.
- SO ALL WATERWAY TO BE USED WHILL BE OF THE BEST QUILITY, WAND REWAR IN CO.
- III. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND GROUP OUTLINED ESCRIPTION OF THE PROJECT BUT DO NOT INDICASEARLY INDICATE DESCRIBED ACTUAL LOCATIONS, LEVEL AND DISTRICTS OF THE EDUPMENT. THE CONTRACTOR IS HERBEY REQUIRED TO MAKE SUCH ADJUSTMENT AT THE JOBSTE AS LOCATION, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- 12. ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS WHALE BROUGHT TO THE ATTENTION OF THE SYGNEST FOR CLARFIGATION CHOISION.
- 15. ALL DOTTING AND CONVENIENCE DUTLET CROUTS SHALL BE 3.5 BO MM. THAN SCOTTER MINE UPLESS OTHERWISE NOTICE. MINIMARIES FOR SPECIAL DE 25 DO MINI COPPER MINE, ALL WINES AND CARLES SHALL BE COLOR DOCED AS POLLOWS

LINE 1: RED LINE 2 - YELLOW NEUTRAL-IMATE SROUND - GREEN

PARKETSCARD - 1990 NW AVE

14. BOXES, IMPS, GUTTEPS, EVELOSUPE SHALL BE TAGRES/TEE FROM STEEL MITH THEIR ESTAS FOLLOWS. MAXIMUM WOTHOF THE MICH IT SURPAGE LITER.

UP TO RECUIDING HIS ARRIVE GA 15 PAINTED WITH METAL PRIMER EPONY AND TOPOGAT DVGR 102 AD MAY BUT NOT OWER MET W GA SERVICED WITH ME TALL PRIMER EPOST AND TOPODET DAMES AND TOWN TRUTHOUT DAVER AND HAVE GA SZ PARMIED WITH HE TAL PRIMER EPORT AND TOPODAT OVER REMM SA 19 FAMILIO WITH ME TAL PRINCIS EPOINT AND TOPODAT

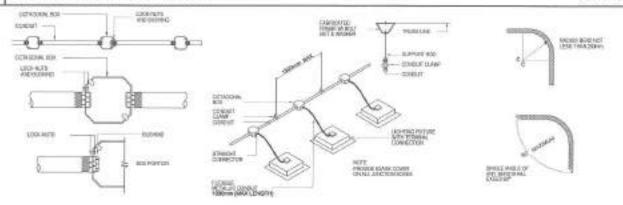
13. ALL ELECTRICAL MORKS HORES DIRECTION OF EXPERIENCED RELIGIOUS THE ORECT SUPERABONOY A PLAL TIME. LIGENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PGAD MOREO SHALL BE NEATHY PLACED, SECURELY PARTERED WAS PROPERLY. PRINCIPED.

- 16. TYPE OF SERVICE ENTRANCE SHOULDE STROLE PLASE. TWO WIFE PLUS GROUND, SEHERRE, 2009 ACTIONISM.
- IT. CONDUTE IN NO CASE SHALL THERE IS: MORE THAN THE COLUMBENT OF FOLENCIARTER SPACE IN AN ONE RAIN ALL COMOLIT BEYOR SHALL BE FIELD INDEED IN JURIO HYDRAULIC BEHERHOL MINERAL RESIDENCIANA MOST REVIACOSPERACE TO THE CODE.
- 16. LPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULA TOWNSBUTANCE TEST AND FUNCTIONALTY TEST SHALL RE-PERFORMED BY THE CONTRACTOR RECUSSIVE OF THE RISTALLATION TO BE REPORTED IN DETAILS BY FOREIGNED BY THE DUEZZIN CÎTY ENGREGRESI DEPARTEMINI REPARTEMINI PER REGULDI PERMANDE POR REPORDE, BITATRAM BANCE ROT RE WORSE THINK IS DHAWS. COMMUNICATION GROWNING RESISTANCE SHILL NOT EXCESS 2 OHNS.

<b>1</b> 0	ACU DUSK	9	Orbit Farr with Selector Switch	
0	Duplex Convenience Outlet	5.	One Gong System	
	1200mm x 600mm LED tabe in Troffer Fishere	52,	Two Gang Switch	
	1x18w Til LED Tube Bax Type Lighting Floture	53,	Three Gang Switch	
300	14w LED Light Bulb in Plastic Receptacle			

## 2 LEGEND AND SYMBOLS

SCALE NTS.

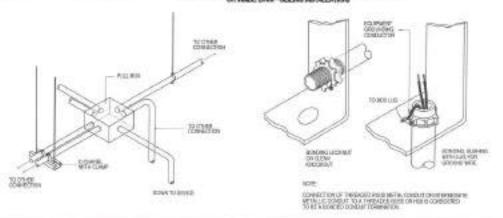


#### SPOT DETAIL OF CONDUIT HIM AND BOX

#### CONDUIT HUM FOR LIGHTING DISTRIBUTION IN ONE CINCUIT PYON EXPONED. OR NINCE DROP-CELING MICHLATIONS

APPROVED BY

DETAIL OF BENDING RADIUS



## **GENERAL NOTES**

SCALE MIS.

## MISCELLANEOUS DETAILS

SCALE NTB. SHEET NO.



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

PROPOSED REHABILITATION OF AVON DAY CARE CENTER

BROY, NORTH PARTY EM, LISTING FS, QUEZENGES

somer: Wi

HEWISESSING!

MOTE | 80,00,81 A MAGNETHE ENGR. LED S. DEL ROSARIO

BURNATTION BY



RECOMMENDATION APPROVAL.

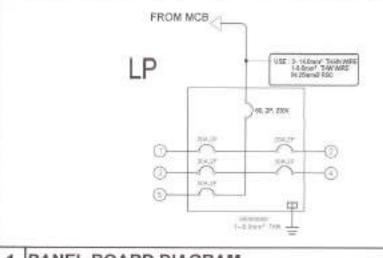
ENGR. ISAOSNI R. VERZOSA, JR. DIO, OTH ENGINEERING DEPARTMENT

SERVERAL MOTES EGENER AND WYMES I MINICHLAWROLD DETAILS

HON, MA, JOSEFINA G, BELMONTE

DESTRUCTION TEND

EL-01



PANEL 6	ANE III	4		_				WMH	SOAT, 300	Mr. 25, 230VA	V		
*****	particular and	10	MB:	-	BATRIC	-	- 1	WEN CLIMBER	NT PROTECTS	THOSE	Tournamer -		put
EFFO.	OCSCRPTION	LG	6.6.	1/4	T	A.	. 82	2.8		Titre	BIELOL MAR	926	707
9	INVESTMENT COUNTRY	11		1100	290	4.76	30	306	1	100101	2-3-5 mm <sup>2</sup> 34(48 + 1-2-0=(=) T(A(Z))	30	ryc
3	сомитивнох одтъет		5.	1000	280	4.70	20	300	(8)	80(3:0N	315xx*2444+ 120xx*1600	in	ne
9	E-CERING MM			E00	230	346	30	100	1	80(1/0N	0-1.50m/ 1995+ 1-2.0mm/ TWG	20	790
+	ACM DUTLEY			94	230	1.00	30	180	2	40056H	2-5 Smm* (1486+ 3-8 Dente* (1496)	28	tve
3	Spekie			200	29	4.91	58	100		WITT-ON			
	TOTAL			3820		2443							
OGN/PU1	ATTEN $I_1 = \frac{5420}{230} + (8 \times 250)$ $I_2 = 26.63 \times$ $I_3 = 276.63 \times 135.8$				HEDE	dist, sins		na Droet Histria	41.				

1425mm@35C

RECORMINENS APPROVAL

ENGR. REGISSE H. VERZOSA, JR.

ARRIGHED BY

HON, MA. JOSEFINA G. BELMONTE

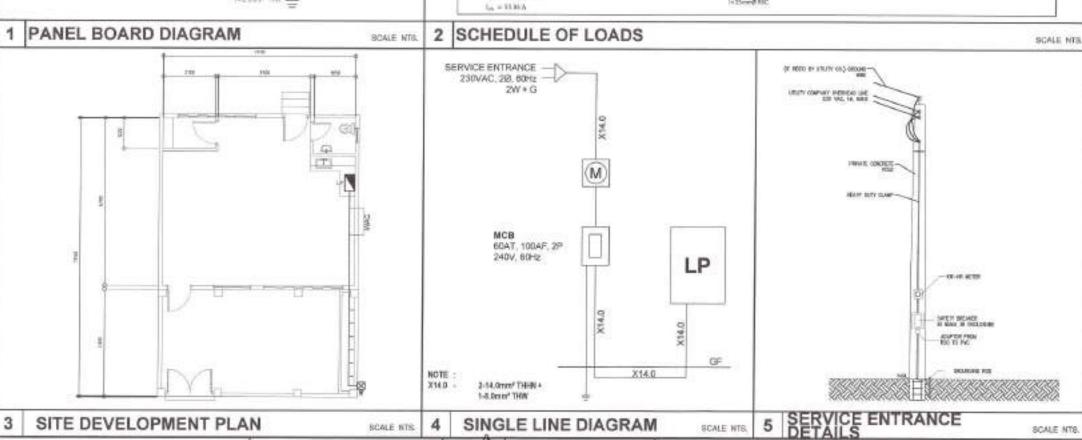
TASTINCO TESHS

BUATED

FAVEL BOWED DIALPHAN SO FEDULE OF LOADS SITE DEVELOPMENT PLAN SINGLE LINE DIASPAM BEFORE EMPORICE

DHEET NO.

EL-02



ENOR LED S. DEL HOSARIO

SHAME TO BE

DATE: DROBUST

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HICKNOW NO

PROJECT THAT:

PROPOSED REHABILITATION OF

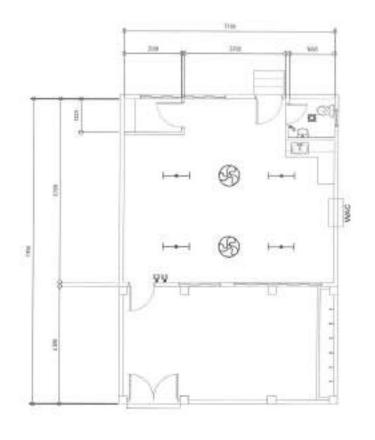
DRGY, NORTH WHITEW, GRITHUT S, QUEZON CITY

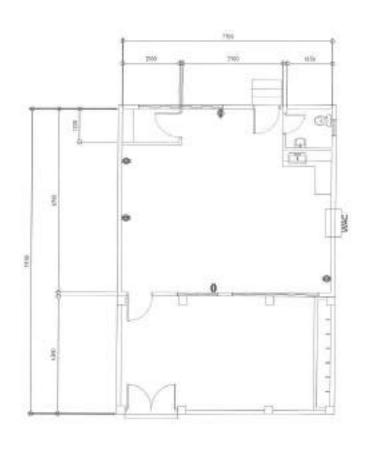
AVON DAY CARE CENTER

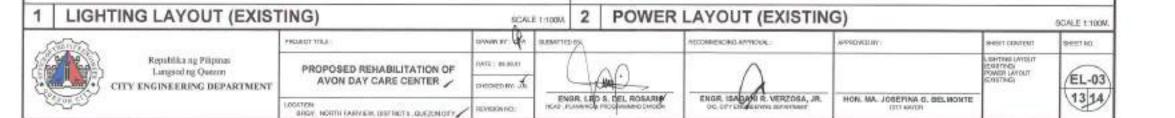
Republika ng Pilipitas:

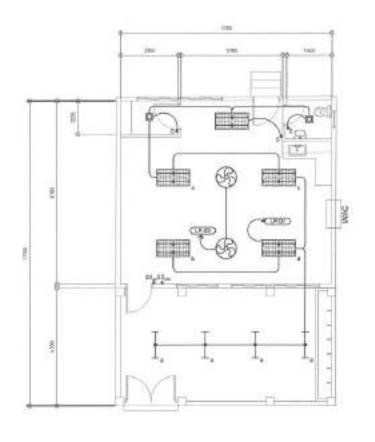
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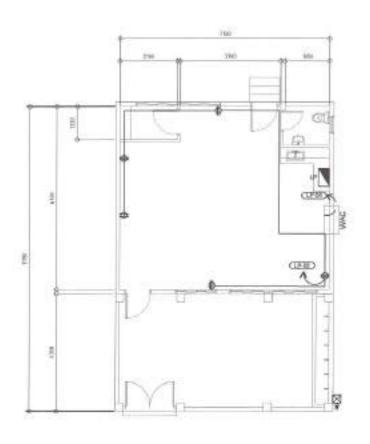
CITY ENGINEERING DEPARTMENT













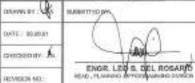
SCALE 1:100M.

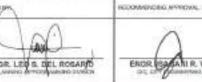
POWER LAYOUT (PROPOSED)

SCALE LITORNI.

SPREET NO.

Republika ng Pilipinas Langsoding Quezon CITY ENGINEERING DEPARTMENT PROJECTIME PROPOSED REHABILITATION OF AVON DAY CARE CENTER BROX NORTH-ANNUAR DISTRICTS DECIDABLY





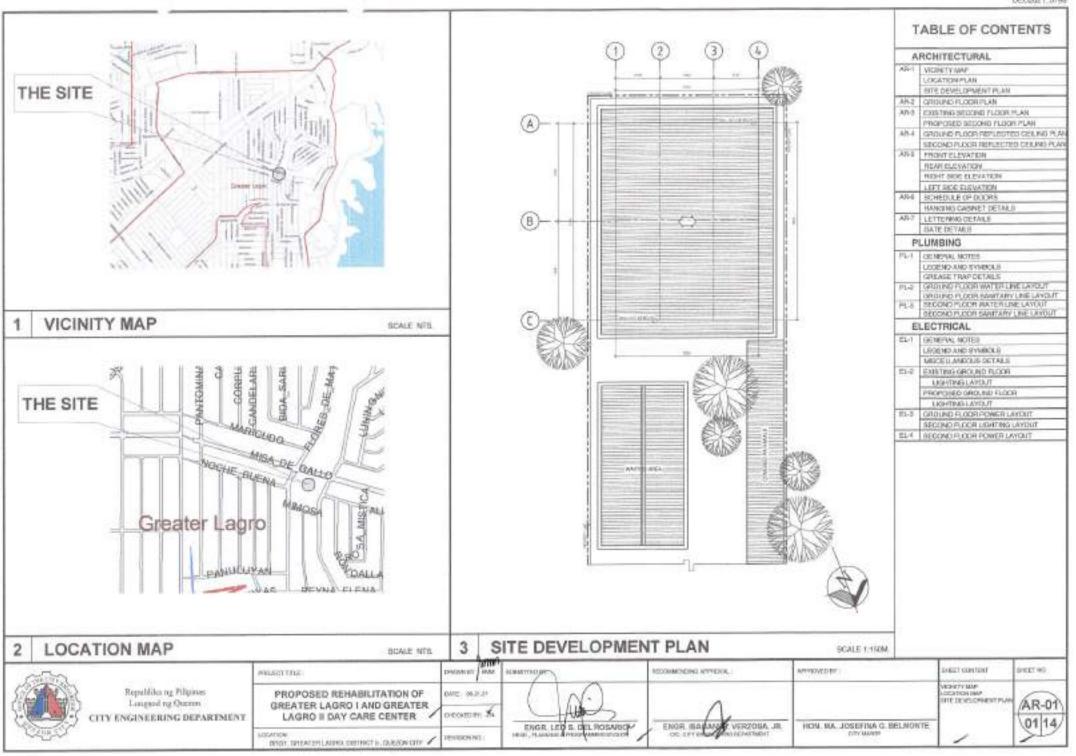


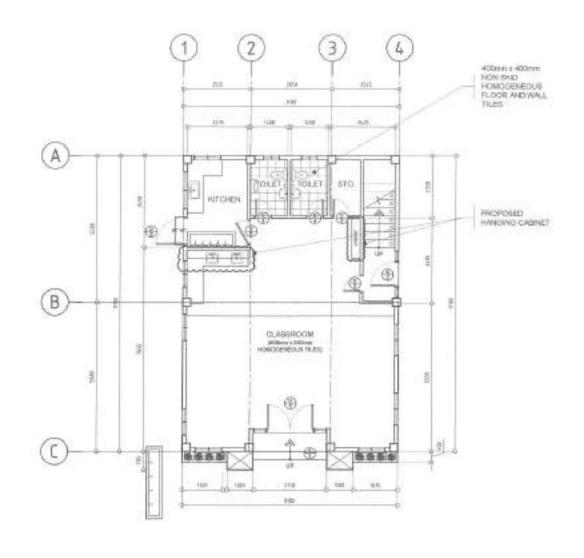
LIGHTHIS LAYOUT PROPERBIO) POWER LAYOUT PROPERBIO) HON, MA. JOSEFINA G. BELFIONTE GET MYON

ASSESSMENT :

EL-04 14 14

TRETIFOR TESTS





MOTE.

3. RITERIOR WALLS TO BE REPARTED

2. ALL GOORS TO BE REPLACED.

11 PROFOGED HANGING CARNETS 4. REPLACEMENT OF GATE+1

1 GROUND FLOOR PLAN (PROPOSED)

BCALE 1:100M

Republika ng Pilipinan Laugasol ng Quason CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF GREATER LAGRO I AND GREATER LAGRO II DAY CARE CENTER

995Y, SHICKTER LAGRO, GREENET'S - BUEZDWORY

DECRESA A

SEQUITMENT

Davies (1990)

ENGR. LED S. DEL ROSARID

ENGR BANNS R VERZOSA JR. OK. SITTO METHOLOGISTA

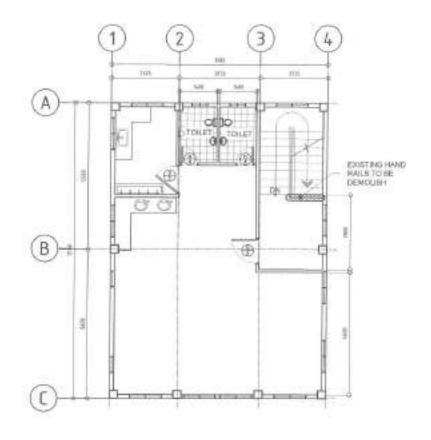
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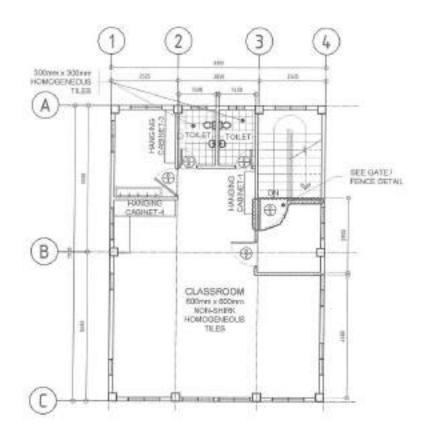
HOW MA JOSEFFUS G, BELMONTE

TVETTHEED YES HE

APPROVED BY

AR-02 02 14





CHIPPING OF EXISTING FLOOR AND WALL TILES.

1 DISPENSION EXISTING FLOOR AND PARENTS. 2 REMOVAL OF RECORD FLOOR HAND MALENCE.

- INTERIOR IVALLS TO BE REPAINTED ALL DOORS TO BE REPLACED
- STAIR TILES TO BE REPLACED
- PROPOSED GATE
- HAND WASHING FAUDETS TO BE REPLACED. CONSTRUCTION OF HANDING CARNETS.

## EXISTING SECOND FLOOR PLAN

SCALE 1:100M

## PROPOSED SECOND FLOOR PLAN

BCALE 1:100M. DRITHE

BREET COWER

PLRN PROPORESI (RESSES FLOOR PLAN)

Ropoblika ng Pilipinas Longsoding Quezen CITY ENGINEERING DEPARTMENT MOVEDLUTE: PROPOSED REHABILITATION OF

GREATER LAGRO I AND GREATER LAGRO II DAY CARE CENTER /

BHOY DREATER LAWYO, DISTRICT & DISCRIPTORY



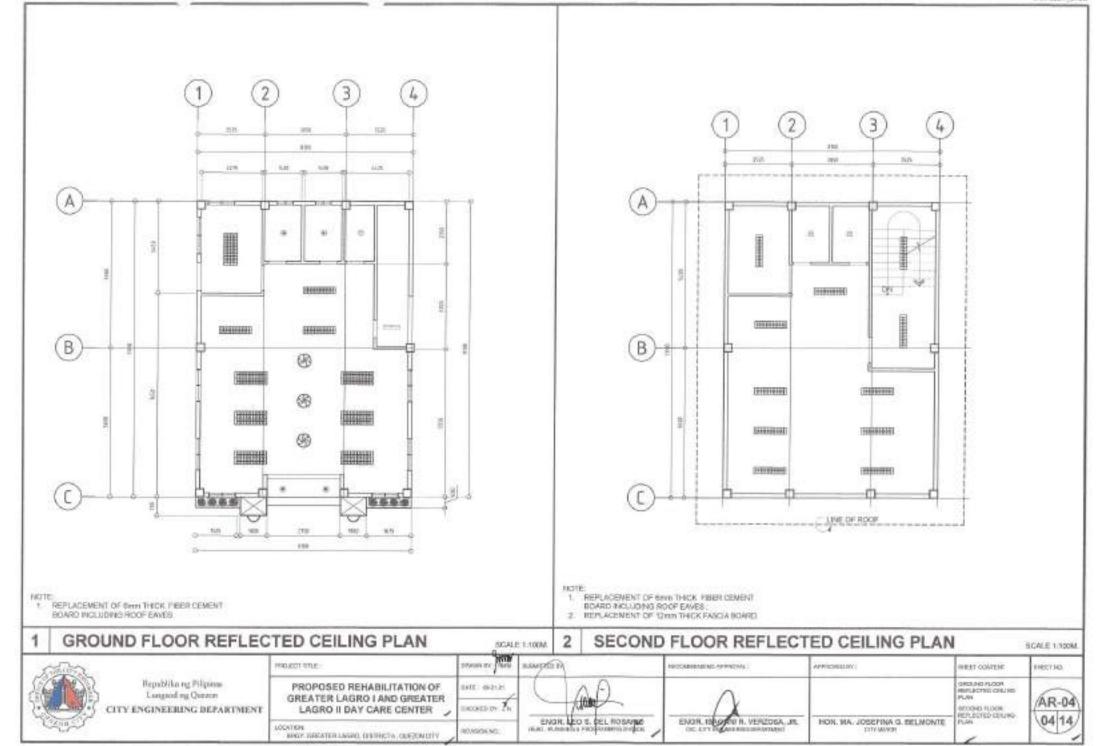
ENGR. BAGONI R. VERZOSA, JR.

PECOMIENDAG APPROVA

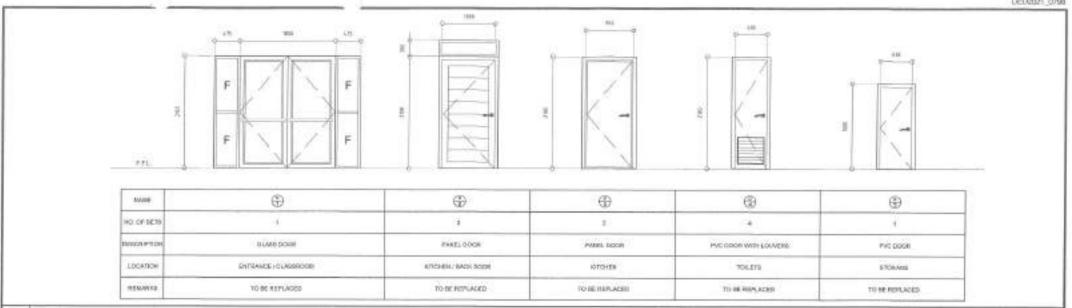
HON, MA, JOSEFINA G, BELMONTE

WESCHIED IN



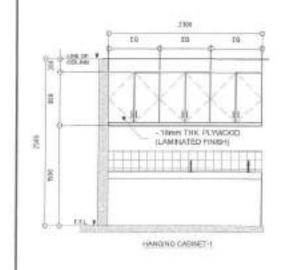


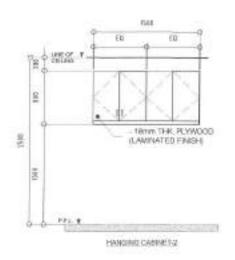


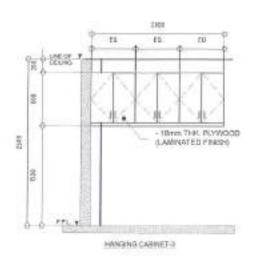


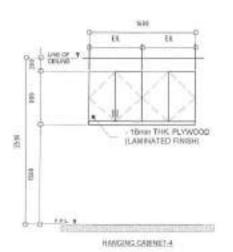
## 1 SCHEDULE OF DOORS

SCALE 1:40M









SHEET CONTENT

## 2 HANGING CABINET DETAILS

SCALE 150M FHEET HO

Bapablika ng Pripana Languad ng Quesos CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF GREATER LAGRO I AND GREATER LAGRO II DAY CARE CENTER

BROY GREATERLAGRO, ENTRICT'S GLEZONOTY

DATE: BIZES

ORCORD DE SA

ENGR. LEO S. DEL ROSANDA HALL PLANSAGE PERMANANA LINCO

interprite.

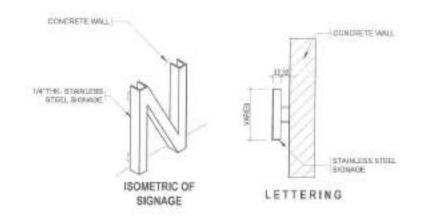
ENON ISALAFA VERZOGA, JR.

AND PHY CARROLL BROOM

HON, WA. JOSEFINA G. BELMONTE

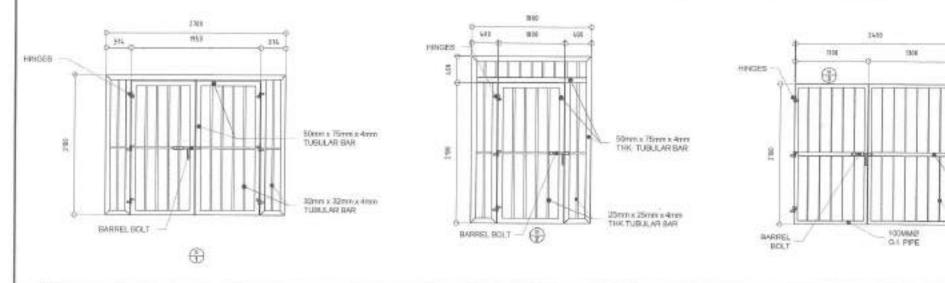
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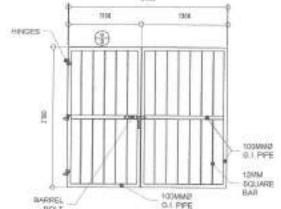
AR-06



## LETTERING DETAILS

SCALE NTS





APPYENDED IN

## **GATE DETAILS**

SCALE 140M.

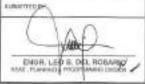
SHEET CONTON



FROMO! TITLE: PROPOSED REHABILITATION OF GREATER LAGRO I AND GREATER LAGRO II DAY CARE CENTER >

RROY, ORGATER LAGRO, DISTRICTS, DUCKEN DITY

DOMESTIC DATE: DAZER HESSER IN A SEMESTRAD.



^	
ENSR. ISJSAN VERZOSA, JR.	

DECOMBODING APPROVAL

LETTERING DETAILS DATE DETAILS HON, HA. JOSEPHA G. BELMONTE

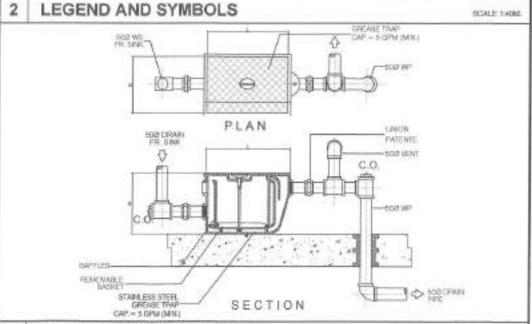


DEETING.

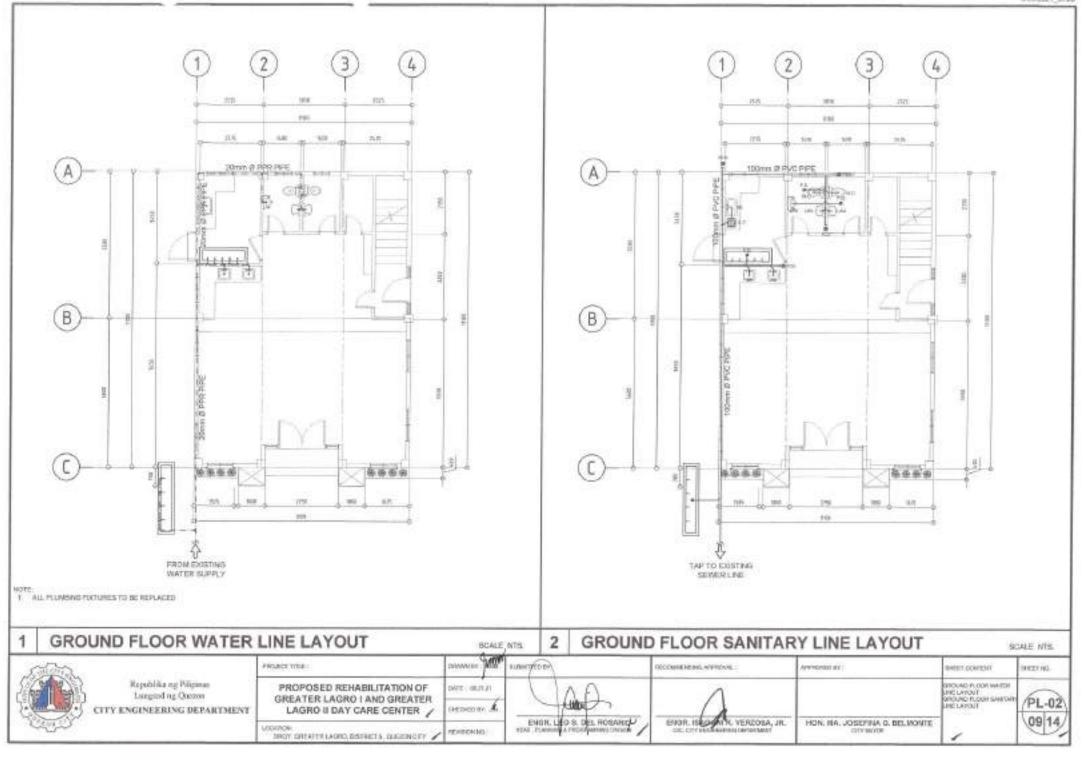
- 1 All plumbing works and materials indicated herein shall be compliant to the provisions of the latest adition of National Plumbing Code, the rules and regulations of local authorises concerned, the rules and regulations of local utility companies and the provisions of the land developer when and where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

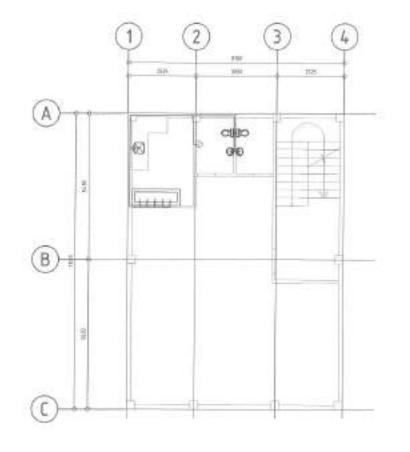
FIRTURE	SEANO OTHER LEGEND
FD RD	FLOOR DRAIN ROOF DRAIN
BHO.	BHOWER
WC	WATER CLOSET
LAW	LAVATORY
니티	URPAL
958	KITCHEN BINK
80	BUILDING DRAIN
00	DECK DRAW
000	CBL949 CLEANOUT
FEO	FLOOR/GROUND CLEANOUT
09	COMMISPOUT
rym)	collector
ø	INTO EVANETER
860	SHOWER DRIVIN
0.00	CATCH BASIN
1414	MANHOLE
	DIRECTION OF FLOW
0	GREASETHAP

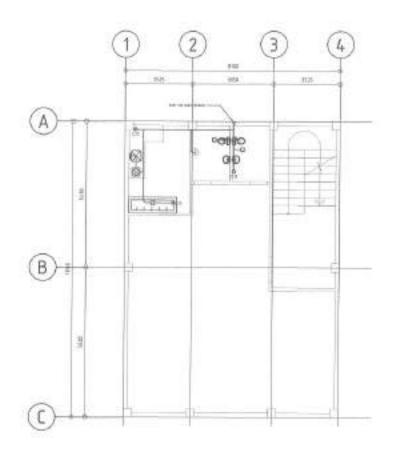
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94.	BLIS DING SERVER
10	BUILDING DIVIN
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40100	REEK DEWING CATCH BASIN
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	WASTE LINE
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	GATE VALVE
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50	CLEMONT
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teri.	MICHEET
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E .	WATER GLIBET
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4	HOSE BIBS
and the same	STORN DRAW DIE
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AC .	VENT ABOVE DOMAG
1.00	CONCRETE PIPE (REHE DONG PIPE
200	VEST THRU ROOF
di.	DRECTION OF FLOW FILLIPPE











NOTE:

1. ALL PLUMBING PIXTURES TO BE REPLACED.

1 SECOND FLOOR WATER LINE LAYOUT

SCALE NTS.

SECOND FLOOR SANITARY LINE LAYOUT

APPROVED:

BCALE NTS.

DHEETY CONTENT

Republika ng Pilipinas Langsod ng Quason CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF GREATER LAGRO I AND GREATER LAGRO II DAY CARE CENTER

GREATER LAGRO I AND GREATER
LAGRO II DAY CARE CENTER

JUDANEN
INCY GREATER LAGRO, DETRICAL GLEDINGTY

December #

ENGR LED S. DEL ROSANDI

ENSR INGE AN R. VERZOSA, JR.

PECCHMINENG APPROVIL:

BECOMO FLOOR HARTEN LINE LANGUE BEDINGO PLOOR SANTINED BEDING LANGUE HON, MA. JOSEPHIA G. BPLINONTE

PL-03

- 4. BUT BUTCHEAU WORKS SHALL BE 1956 IN ACCORDANCE WITH THE PREVIOUS OF THE LATEST SOURCE THE RHUPING. BLECTRICAL CODE, THE LANS AND DECOMMENT OF THE LUCKL CODE REPORCESS ACTION (ALL THE MICE RESIDENCE OF THE LOCKLY POWER AND TELEPHONE LITTLET COMPANY
- 2. THE CONTRACTOR CHAIR, DECIDE ALL PRIMERS AND PAY ALL PRIME BY CLARK FOR THE SCHICK ARE SHALL PLRISH THE DIFFER THROUGH THE ENGINEERS. FIRM, CERTIFICATES OF ELECTRICAL INSPECTION AND ARTHORIS. FROM PROFISA SOVERHIBEST AUTHORITIES FOR COMPLETED/OF WORK
- 8. ALCOHOLD MAKE-DROUGH BAKE & PACKETIN WILLIAM ROCKED HISTORIAN HAVE BY BATCHER BY CONDUCT CLAMPS EVERY PROVIDE LANCEST
- 4. PISE SCHOOL REPROJECTIVE THE COMMISSION INFRIENCES SAFETY TO PROJECTIVE WIRE TRUBBLE DESIGNATIONS. WIE HOT RESOURCE ON THE PLANE. SIGNED OF ALL PLALEDRES SHALL HE COMPUTED BASES ON THE COOK REQUIREMENTS. SUBMIT SHOP SROWINGS TO THE SHORIEST FOR APPROVAL PRIOR TO PARRICK DOV. LOCATER OF PALLBORIES WALL BE APPROXIDES THE ARCHITECTES COMER AND MUST BE REPLECTED ON THE DISCRECT PLAN.
- AU POWER DUTLETS AND SWYCHES SHALL BE GROUNDING TYPE WITH WALLES SLOTS FOR JULY.
- PROVIDE DROUGD PALLY CARREST INTERRUPTER CINCUIT SREWICH FOR LOADS MARKED SPOT ON THE FLAM.
- 1. ALL METALLIC CONCURS. CHRISTIS AND EQUIPMENT INVALIDE PROPERT GROUNDED AND BONDED.
- 8. VALUES CONTRACTED MODELS OF THE WALL MODARITH DEVICES BANGERS AND THE ARPEST ONE

RECEPTAGLE OUTLEY - 100 MH AFF, ISSUIN ABOUR WORKED COUNTRY.

TELEPHONE OUTLET: - 300 FM APT CATY CLITLET - DECIMERATE LIGHTING SHITCH - 1408 HM AIR PARESONNO - TERRISONATE

- 8. HEFRY TO RECYCLAD, PLUMBING HAY FIRST PROTECTION ON WAYOUT FOR BUTINGS HID LOOK TONE OF EQUIPMENT AS WELL. AS THE R CONTROL REGISTROSIS AS SPECIFIED AND OR SPONS LIQUED THEIR RESPECTABLESCYCLE.
- FIL ALL PHOTORNALS TO SIC LIVED GHALL BIC OF THE SIGHT GUALITY. BANKS NOWAN SPECIFIED.
- 11. THE STREAMS AND APECATIONS ARE INTRADED TO WISSENS OF META, LAYOUT AND STOKE OUT, INDICESSES FROM OF THE PROJECT BUT ON NOT RECORDERY, VIND CATED/SIGNADIA ACTUAL LIGGIFFORE LEVY, AND DISTRICTS OF THE EXAMPLET. THE CONTRACTOR IS HERCON REQUIRED TO WHILE SUCH ASSESSMENT AT THE JOSSITE AS LOCATED, DETAMESH AND LEVELS WAR OCCUPANISHED BY ACTUAL PRINT CONSTITUTE.
- 17. AIV DISOSPINIOS RETWEIN THE FLAME AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTRIBUTION OF THE INSCRIPTION CLAWFICATION DECISION.
- 13. ALL CENTRO AND CONVENIENCE CURLET CREATE BANK, SE US ELL SEL THANKS COPPUR MAIS UNLESS EMPRIMADE ACTES. WARRESTED OF WAR SHALL BE 20 ICC MR. COPPER PARE, ALL WARRESTED CARLIES SHALL BE COLUMN COSTO AS FOLLOWS:

LIVE 1-RED CHES-VELLOW NEUTRAL - WATE SPOUND-SPERM

14. BOYES WIRE OUTTERS DISCLOSUSE OWN, BE TRADELLYDOTROW STED, WIRE INFOREST AS FOLLOWS. NAVAMBE WORSHOP THE WIDEST SURFACE STEEL

OF THI IND JUDICI 102 HE NA

DVER HSZ 40 MBH BLE NOT CHEER 457.00.

CARRY NOT DESIGN BUT NOT OVER NO MAY

SA 19 FAILURE WITH MICHAE PROWN SPORY AND TOPOCKT GA 14 ANNITED INTHMETAL PRIMER EPONY AND TOPODAT GA 12 PANYED WITH METAL PRIMES EPONY MED TOROUGH

CASH THE NA GA 18 PANYTED WITH MICHAEL PRIMARE SPICILY AND TOPODAY. 15. ALL M. STITECH, WORKS INTROHONAL BE EXPOUTED BY EXPERIENCED WAY LINES FIRE DRIECT SUPERSONNEY A FILL THE LICENSES SUBCINICAL INSIDERS AND A CILE SCORESTED STECHNOL CONTRACTOR BY TOUR HORSE SHALL SC NOVEY PLACED, SECURELY INSPERIED AND PROPERCY PRESIDED.

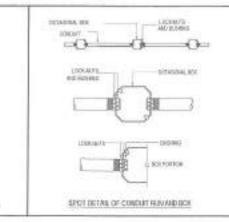
- 46. TYPE OF SORVICE CHTEWOOD GRALL BE \$3400 \$-Provide. TWO-WIRE PLUS GROUND. ON HERVE THE ACT REMEMBER.
- 17. CONDUCTS INVOCATE ENDLY THERE BE INDIRECTION THE PROPRIATE OF FOUR QUARTER SERIOS IN JUNY ONE RUN, ALL COPONY BOYES SHALL BE RELEMAND BY LISHIS INTORNULC BENERO, MINISTER BURGED AND IN INC. ACCOMMEND.
- W. UPON COMPUTEDNOT ELECTRICAL CONTRACTION SCHOOL PROXIDES SENSOR TEST AND PLACTICAL ITS TREE UNIV. BC PERFORMED BY THE COMPRECION RELUCIVE OF THE BISHALLARION TO BE REPORTED BY DETAILS DEPORTED APPROVED. BY THE GUESTIN GITY ENGINEERING OPPORTMENT RESPECIENTATIVE. THE WIGHING REMOTANCE FOR ELECTRICAL STREAM. SHALL NOT BY MORE THAN EIGHER, COMMUNICATION THROUGHOUS RESISTANCE SHALL HOT EXCEPT IT OHIO.

SHIBLE DANG SMITCH 1.30M LED TUBE LICHT (FOR REPLACEMENT) TWO CANC SWITCH TOPPEN TYPE WITH TOTAK (FO OF CHI REPLACEMENT) TUBE LIGHT (FOR REPLACEMENT) SHIRLE GANG THREE-WAY SWITCH TOPPER TYPE, WITH 2008W LED (FOR REPLACEMENT) TUBE LIGHT (FOR METLACEMENT) \$27 RECEPTABLE WITH LETS BULLS WILL LAWP (FOR REPLACEMENT) E27 RECEPTABLE WITH LED BULB ADDITIONAL OTHING FAM (FIDH REPLACEMENT) HOUND PINUSHT SUPLEX CONVENIENCE CUILEY (FOR REPLACEMENT) (FOR REPLACEMENT) SURPLY THE LIGHT ACU OUTLET (CREME) (JANCITIONAL) SLOW LED TUBE LIGHT

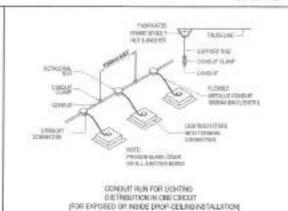
PAREL BOATO

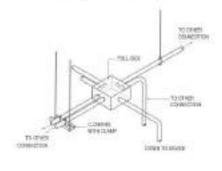
## **LEGEND & SYMBOLS**

SCALE MIS.



(FOR REPLACEMENT)





**EQUIPMENT** GROUNDING. 29400,0109 WHICH SE BORDER, BUTCHEVER LEE. TOR CONTROVER 2CF0101150000 ANGORANCE. CONCERNS OF THE AGED IN GOLDERN, EDWOLF OR HETERADINE. MCTALLO CONDUCTO A THROUGH BOSS-OFFRIRE IS CONSIGNAD. TO BE ANNABED LORES OF THE MALLOCAL BONDED BACERAY TERMINATION FOR DIEET METAL

PROFER CONDUIT LAYOUT at PULL BOX

## **GENERAL NOTES**

SCALE NTS.

## MISCELLANEOUS DETAILS

SCALE NIE mention.



Republikang Pilipinas Langueding Quazon

CITY ENGINEERING DEPARTMENT

PROJECT TITLE

PROPOSED REHABILITATION OF GREATER LAGRO I AND GREATER

BROY, GREATER LADRO, DISTRICT 6. GUESTOVOTTY

WY SENEDICINE

BEMDING RADARS DETAIL

DATE: WITH memmer de ENGR. LEG S. Dr. ROSARINA

PECCHADIONS APPROVIS

ENGR ISBLOOM R. VERZOBA, JR.

WANTED BY

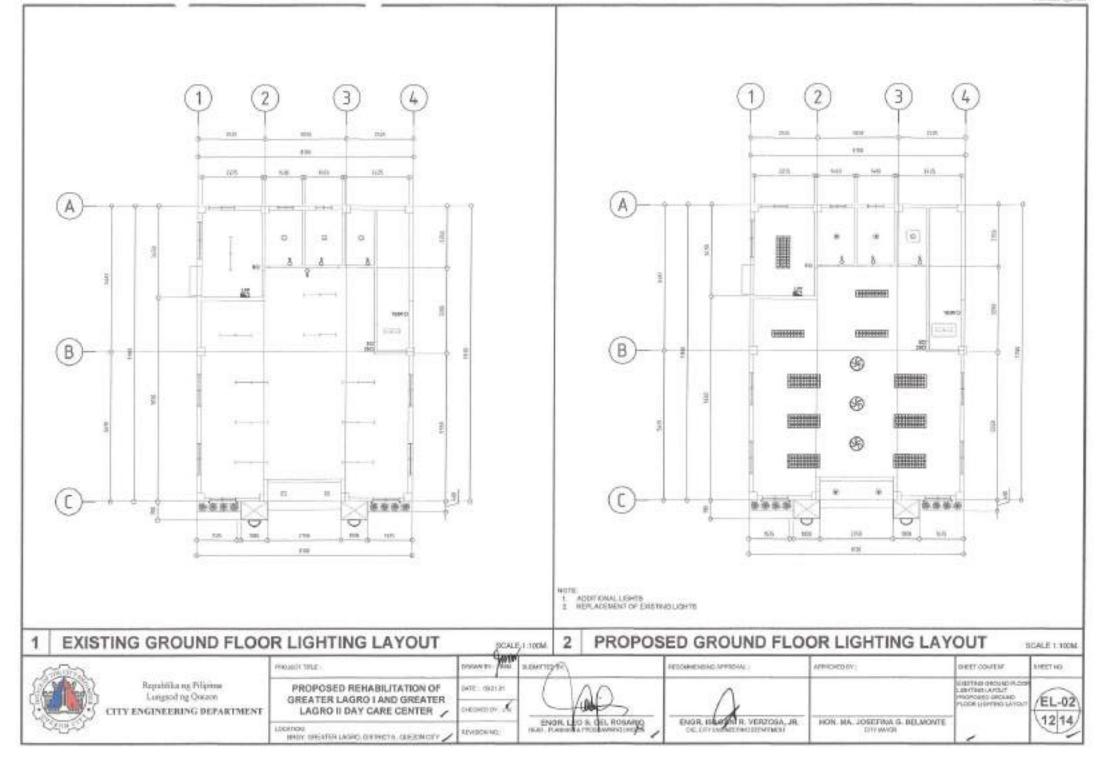
GENERAL HOYES MISCELLANGOUS DETAILS LEGGED MED STARROLS

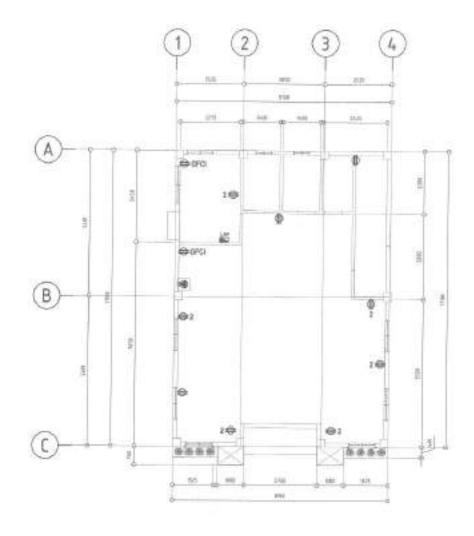
SHEET DESCRIPTORY

EL-01

LAGRO II DAY CARE CENTER /

HON, MA, JOSEFINA B, BELMONTE SEV MOOD





NOSE: 1. ACCITICNAL ARCON OUTLETS

### GROUND FLOOR POWER LAYOUT

BCALE 1.100M.



Republika ng Pilipinas Lungsod ng Quesan CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF GREATER LAGRO I AND GREATER LAGRO II DAY CARE CENTER

950Y, DESCRIPTION LADRO, DISTRICT 4, (QUEZNOTET)

LUCKYOU

R OGOSDEY M

HULDICH HO

DIMONETY AND

ENGR. LEG S. DEL ROSARIO P.

BARN THE BET

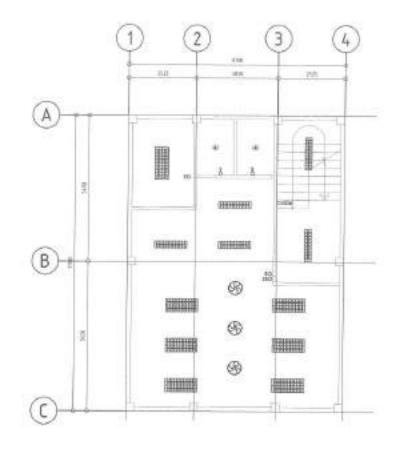
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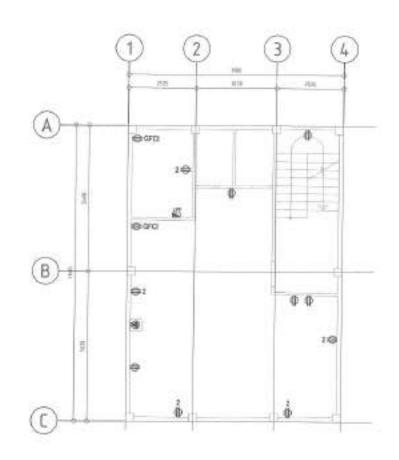
PAYORNEY DARKSHIPOOSE

HON, INA, JOSEFINA G, BELMONTE

WHICHDIST BY

SHOWAR FLOOR FORMAL LAYOUT 13 14





APPROVED BY:

## SECOND FLOOR LIGHTING LAYOUT

SECOND FLOOR POWER LAYOUT

DODANDENS AVVIOUS



Republika ng Pilipinas Language of the Contract CITY ENGINEERING DEPARTMENT PROMETRIAL PROPOSED REHABILITATION OF GREATER LAGRO I AND GREATER LAGRO II DAY CARE CENTER /

HINDY OFFINER CAGED DEFRETH GEOGRAPHY

NUMBER OF 140000 or K аривония.

DAMAGE THE

ENGR. LED S. DEL ROSARIA

BURNIST TREES, BYS.



SECOND FLOOR POWER LAYOUT

BHERT GOVITENT

EL-04 14 14

HEETING:

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ARCHITECTURAL
ARCHITECTURAL
LOCATION PLAN

AR-93 REPLECTED COLORS PLAN-ROOF PLAN AR-94 PRONT ELEVATION RES-1T GIDE ELEVATION LEFT ADDE ELEVATION

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DARNET DETALS

LETTERING DETALS

LETTERING DETALS

PLUMBING / SANITARY

LEGEND AND SYMBOLS

MIRCELLANEOUS SETALS

PL-01 SENERAL NOTES
PLANSING LAYOUT
ELECTRICAL
EL-01 GENERAL NOTES

POWER LAYOUT

MY-12 GROUND FLOOR PLAN (FROMED FLOOR PLAN (FROMED

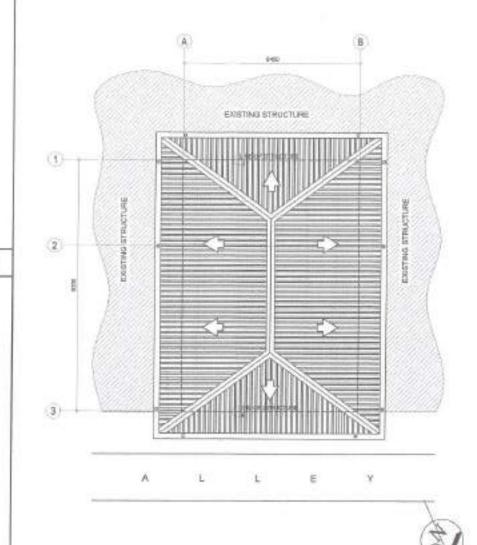


VICINITY MAP

SCALE NTS.

THE SITE





SITE DEVELOPMENT PLAN

SCALE TITION.

APPROVED IN:

Republika ng Pilipinas Langsod ng Quenan CITY ENGINEERING DEPARTMENT

LOCATION MAP

PROMET TITLE

PROPOSED REHABILITATION OF MMTC DAY CARE CENTER \_

SCALE NTS.

LICATON DATANDAY PARTYEN, SOTRICT 1, OLICIDARDIY DATE: 10,01,000

REVISION NO

CHICAGO TO





HON, MA. JOSEPHIA G. BELMONTE

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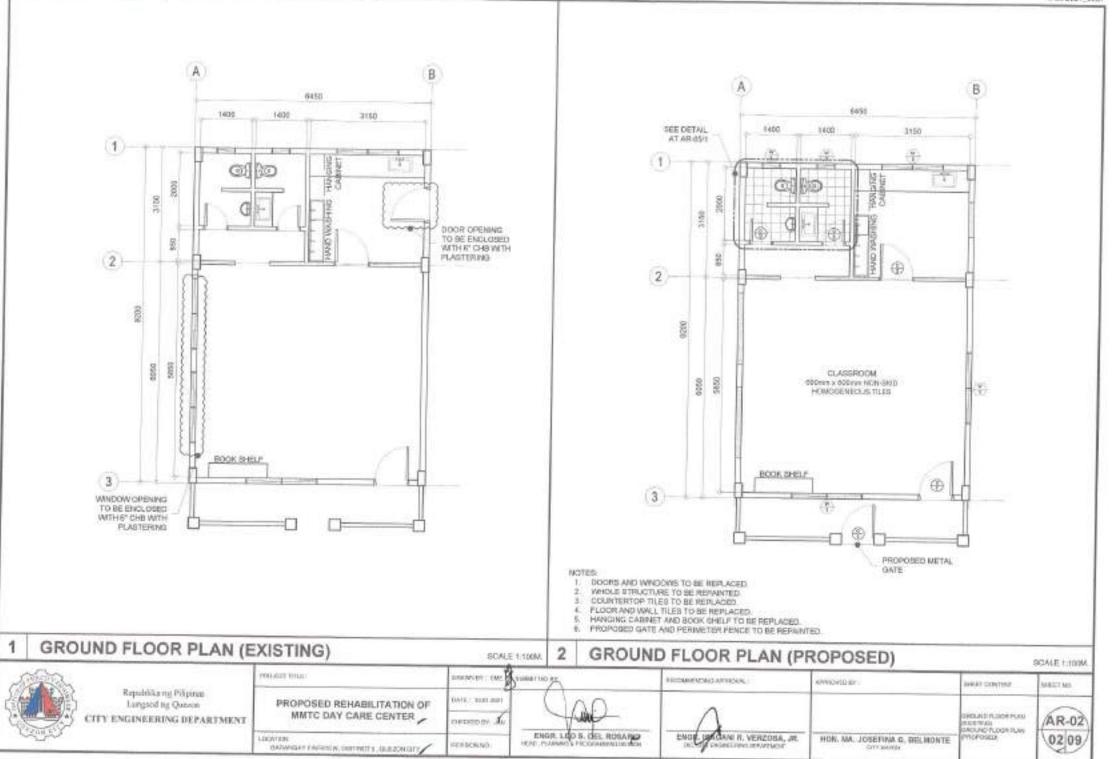
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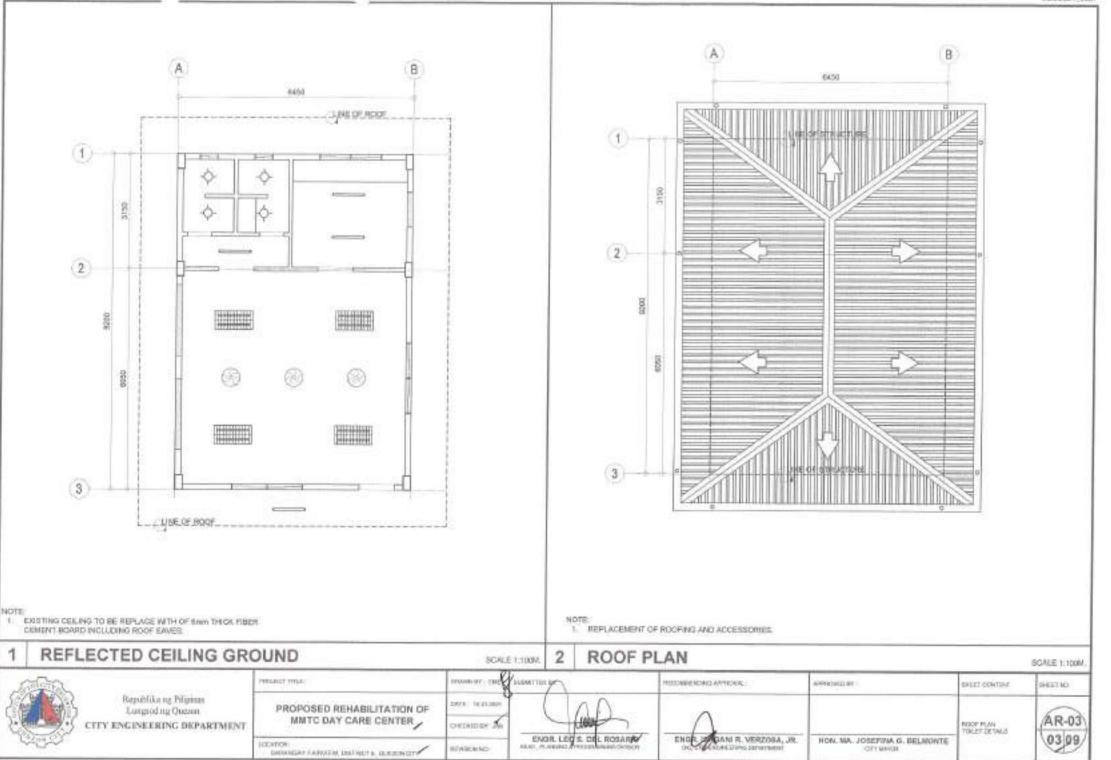
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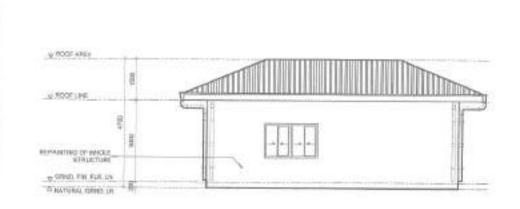
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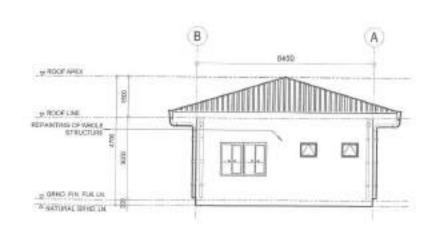


1 FRONT ELEVATION

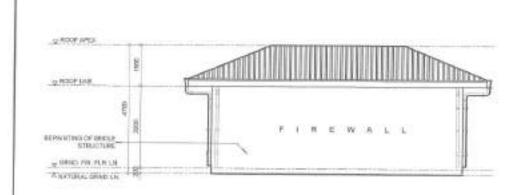
SCALE 1:100M.

RIGHT SIDE ELEVATION

BCALE 1:100M



FROMOUT VITAS:



APPROVED BY

3 REAR ELEVATION

SCALE 1:100M.

LEFT SIDE ELEVATION

RECOMMENDING APPROVAL.

SCALE 1:100M.

Republika ny Filipina Lungsod ng Quesan CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF MMTC DAY CARE CENTER

SARANDAY FAIRWILM, DISTRICT A, GLEUDAYGTY

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OFFICIONS AND BRADE

FOR THE BLADE

FOR THE BRADE

FOR

ENGR. LEO S. del. ROSAREÓ FEREL PLANMA PROCEMBROCANDOS

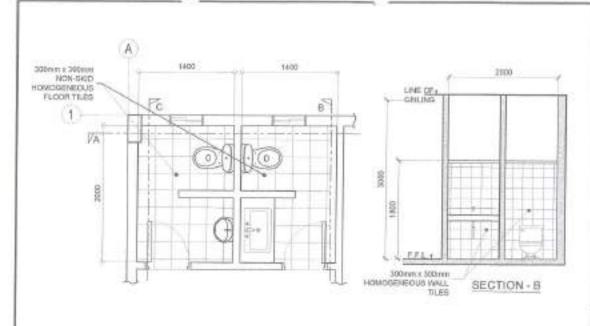


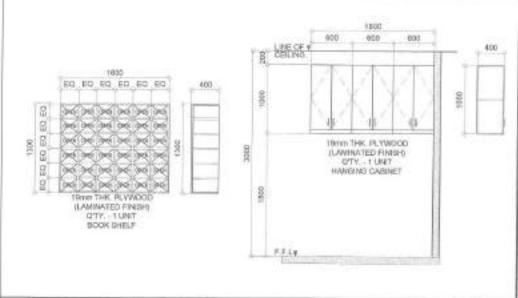
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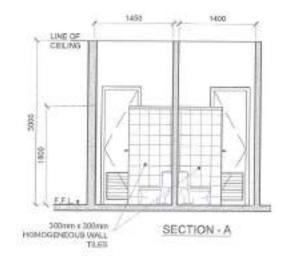
BRIEF CONTENT

AR-04 04 09

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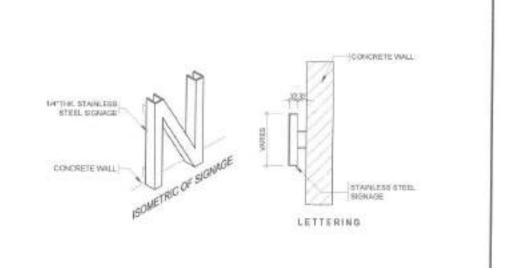








SCALE 1:50M.



### TOILET DETAILS

SCALE 150M.

#### LETTERING DETAILS

BCALE: NTS



Republika ng Pilipina Langsod ng Queson CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF MMTC DAY CARE CENTER

DAYWON'T ANY ENGINEER INSTRUCT D. OLGODOOT

LETT FORLORS



ENGR. EAD S. DEL ROSANNO TEAR FLANKICA TROOPINAME DIRECTOR

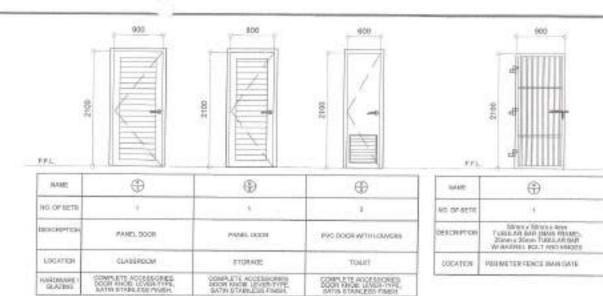


HON, MA. JOSEFINA G. BELNIONTE

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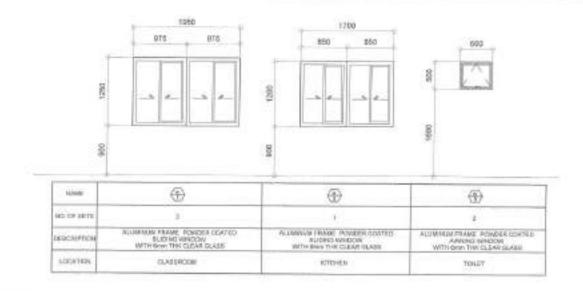


SHEET NO.



#### SCHEDULE OF DOORS AND GATE

SCALE 150M.



### 3 SCHEDULE OF WINDOWS

SCALE 1-50M



Republika ng Pilgmas Lungsod ng Queron CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF MMTC DAY CARE CENTER

SAMANSIAT PARMIEW SISTNETS - QUESTIVISTS

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ENG	III ISAN NI II. VERZOSA, JR.

SO-EDILL OF COORS
AND MAY
HON, MA. JOSEPHNA G. SELHIONTE
SO-SOLULOF WHOOKS

CITY MAYOR

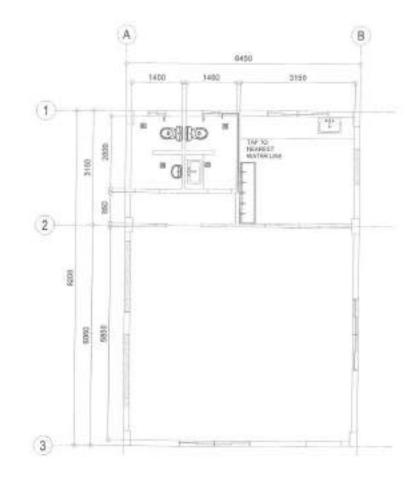
WHITE COLUMN

AR-06 06 09

TVO GUIDO FTONE

- All plumbing works and materials indicated horoin shall be compliant to the provisions of the tatest edition of National Plumbing Code, the rules and regulations of local authorities concerned, the rules and regulations of local utility companies and the provisions of the land developer when and where applicable.
- 2. The plumbing layout is only diagrammatic, pipes, cleanouts and check valves shall be conceiled 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 instalted as and where inclusted. Any relocation will require proper execution in relation with other trades.
- The plumbing contractor shall varify all existing utilities at the site and shall coordinate the work with other traces.
- 4. Pipos shall not be embedded in structural members unless otherwise specified or allowed.
- 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 sustting pipes/utilities.
- 7. Connection of flutures to pipes and fittings shall be according to manufacturer's specifications.
- B. All floor drains shall be verted individually.
  - All clean out femules shall be flush-mounted to wall and shall be provided with potished 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 far covering and verapped with jute cloth thoroughly sceked in far or exphast.
- 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 varives to all water supply lines to fixtures.
- \$4. All hot water lines shall be provided with proper insulation where exposed.
- All individual branches to fixtures or group of fixtures end/or equipments shall be provided with air chambers or capped vertical pipe extensions of dimensions as shown;
- H = 450 mm for 19 mm Ø and larger
- H = 300 mm for 12 mm Ø and smaller
- 16. All hose bibbs shall be 19 mm Ø (3/4" Ø) unless otherwise indicated.
- 17. Inlet pipe of septic tank is 50 mm higher than the siphon pipe which is 30 mm higher than the outlet pipe.
- 48. All plumbing works and manner of construction shall be under the direct supervision of an able and duly licensed Master Plumber or Registered Sanitary Engineer. Any discrepancies found in plan shall be notified to the same person.

PROJECT TIME:



#### NOTE

- 1. REPLACEMENT OF PLOMBING FOURIES.
- 2. RELAYOUT OF WATER CHE.

### 1 GENERAL NOTES

SCALE: HTS

STANDARY THE WOLLDON

PLUMBING LAYOUT

SCALE, NTS



Republika ng Pilipinan Langsad ng Guesan CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF MMTC DAY CARE CENTER

BARROOM FABRICISE BEDRET IS QUEDONICTY

DECEMBER A

REMINISH NO.

ENGR. LED S. OFL ROSAND



LANGHAM CARCIL BIRRIOGS

HON, MA. 20SEFTMA Q. BELBRONTE

CITY MAYOR

PRODUCE OF

OENBAR HOTES PLUSSAND LEYOUT

TARTHOO TERM



DATESHE

#### GENERAL NOTES:

- ALL FLECTRICAL MODES GHALL BE DONE IN LOCORDINACE WITH THE PROSESSING OF THE LEGISLE ROTTED OF THE PHILIPPINE FLECTRICAL CIZER, THE LARK WIS GROWNING FOR THE LOCAL CODE SHEDRICALD AUTHORISES HIS THE RECEMBER TO SET THE LOCAL POWER WAS TELEPHONE LATERTY COMPINY.
- 1 THE COMPACTOR SHALL INCOME ALL PRINCIPLE AND PRIVAL PEDERGOURED FOR THE WORK AND SHALL FREMENDED THE OWNERS THROUGH THE SHERBERS, FRAN, CERTIFICATION OF RESOVERAL HERMITTONIAND APPOINT, RECAMPIONED SCHOOLSHITTED AND CRETICATION OF MICH.
- ALL REMEDIES DEMONSTRUCTURE SHALL BE THE CONDUCTE REDYON EXPONED INFOLLATION WHALL BE RECEPPORTED BY CERROLIT CEARPS WHEN YOU WILLIAM TON
- BLI GODD SALE REPROCED BY THE CONTRACTOR WICHONCERNOCESSARY TO ENGLITY OWNE FALLING EMPLY THESE. ARE NOT REPORTED ON THE PLACE IS ZERO OF BLI FALLINGS SHALL BE COMPLIED USED ON THE COOK GOD DEPARTIES. SUBJECT SHOP SHOWINGS TO THE EXECUTION FOR APPROVAL PRIOR TO PREPARATION LIDORITOR PLEIGNESS SHALL BE IMPROVED BY THE ARCHITECTION OF SEARCH BASED ON THE TRANSPORT OF THE PLACE OF THE PLACE.
- B. ALL POWER DUTIETT. AND SWITCHES SHALL BE SHOUNDING THRE WITH PROJUCT, STATE FOR 28Y V.
- 8. HIGHER ORDINETRUST DIRECT INTERPRETER ORDIT MEMBER FOR LODG WARDS UPON ON THE AUG.
- ALL METALLIC COMMUTE CAMBRITE MEDICULPMENT INVAL. 98 PROPERLY GRISLACED AND BOYDED.
- 8 DRUBS O'S CRAWS NOTED, NODERTHIS HERDY FOR BALL MODIFYS DENOTES BYALL SC. AS FOLLOWS

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- INFERTO MICHARCH, PUMBERS AIF MAT PROTECTION ORWINDS FOR BUTINGS AND LIGHTINGS PROUPERT AS VEG.
   AS THREE CONTROL DEQUESTES AS DESIFIED AND OR GROWN LINGUIT DEEP REPRESENT SECTIONS.
- AX. HEL MATERIALE TO ME LIMID MAKE BE OF THE SEET GLACITY, BYAND HOW AS EPISOPESS.
- II. THE DEMANDS ARE SPECIFICATIONS ARE INTRIDUCED TO PRESENT CRISPIAL CAPCUT ALD SPECIA CULTURED EXCITATION OF THE PROJECT BUY DO NOT RECEIPMENT REPORTED HORSE DOTTON, LICATIONS, LEVEL AND DETANCED OF THE EXCITATION. THE CONTRACTOR IS HOTELY REPORTED TO ANNIE BUICH ADJUSTMENT AT THE JUSTICE AS LICATION, DETANCES WILLIAMS, JUST DOMESTICS IN ACTUAL RELIFCONDITIONS.
- AW DECREASE RETRIEVED PLANEARS PEGFICATIONS SHALL RETRICION TO THE ATTENTIONOR THE INVESTIGACION.
- ALL US MAKE AND COMMENSACE CUTLET CONCURS SHALL BY SELEC, MRY THIRKLY COPPER MINE LARGES CTYCEN MICHOLOGIC MINIMAN SES OF WIFE SHALL BE LESS MRY COPPER WINE. ALL WARES MID CARLES SHALL BY COLOR DODGE AS POLICIANS.

LINE 2 - YELLOW MILITER L - YEETE DROUMS - OWERN

 SOVES, WATE, GUTTERS, EHCLOSURS, SHALL BE: FASRICK FOR PROMITTIES, METH THICKNESS AS FELLOWS: MAKEUM WICKNESS THE WICEST SURFACE STEEL.

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  FIG. THE CAPITATE CLOCKROAL OF GRIEDER HICK DISCUSSOR PRODUCT HICKORY OF THE CONTROL CONTINUOUS BY PONE WORKERHOLD
  BE MAYIN PLACED, SECURILY INSTERED AND PROFERLY PRODUCT.
- IS. THE OF SERVICE KNOWINGS THALL BE SINGLE PLACE, INCOMING FLUX GROUND. NO HERTE 2004 ACHIOMINAL
- 13 CONDUTE BYTC CASE SHALL THERE BY SERVE THAT THE SQUARLEST OF FOLE SCARTER BEIOGN WAY CALLESS ALL CONDUTE SERVE SHALL BE FILLD INCE BY US NO HISTORIAL CHROCKER MURRAR PERCENCIPACION MUST BE STACCORDANCE TO THE CODE RECURRORSHIP.
- 18 UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORL INSELECTION RESIDENCES THAT AND PLACED WALLEY TEXT SHALL BE REPORTED BY THE CONTRACTOR WALLEST OF THE RESTRICTATION TO BE REPORTED BY THE CONTRACTOR WATCHING TO THE RESTRICT BY THE CREATER SHALL BY THE CREAT

-0-	150WMS LED BULB 18 WATTS		PANEL BOARD
	2X1BW TROFFER LIGHT	oss.	SELECTOR SWITCH (FAN)
	TELED 1200WW, 25 WATTS	*5	ONE GANG SWITCH (LIGHTS)
Φ"'	DUPLEX CONVENIENCE CUTLET (HEIGHT 1400MM)	°2Sab	TWO GAING SWITCH (LIGHTS)
© <sup>HIA</sup>	ACU OUTLET(HEIGHT HORNIN)	100	HOME RUN CIRCUIT BREAKER
		(9)	ORBIT FAN WITH SELECTOR SINTCH

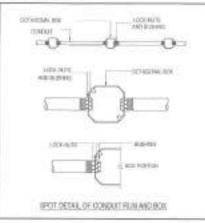
#### 2 LEGEND & SYMBOLS

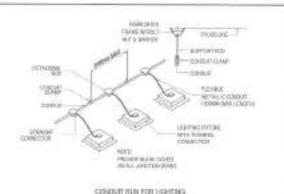
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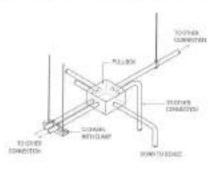




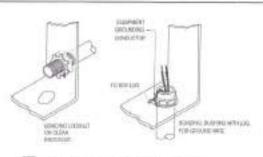


DESTRUBLISHEN IN CHECKET

FOR EIPOSED OR WISIDE DROP-CELLING INSTALLATION)



PROPER COMPLET LAYOUT # PULL ROX



SAL.

CONSTRUCTOR OF THE PROPERTY OF

BORDED RACE WAY TURNIPLATION FOR SHEET METAL.

SHEET CONTENT

### **GENERAL NOTES**

SCALE NTS

3 MISCELLANEOUS DETAILS

SCALE NTS

meet to



Republika ng Plipisan Langsod ng Quemm CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION

PROMET TRACE

PROPOSED REHABILITATION OF MMTC DAY CARE CENTER

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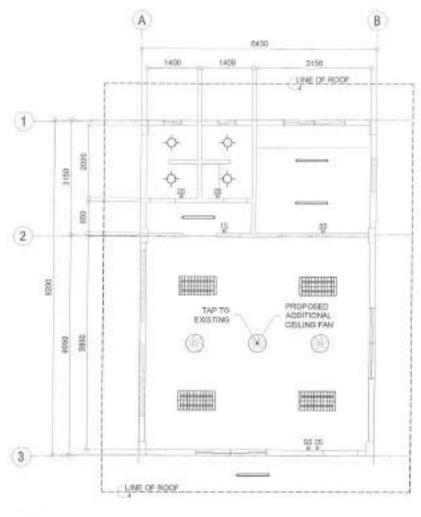
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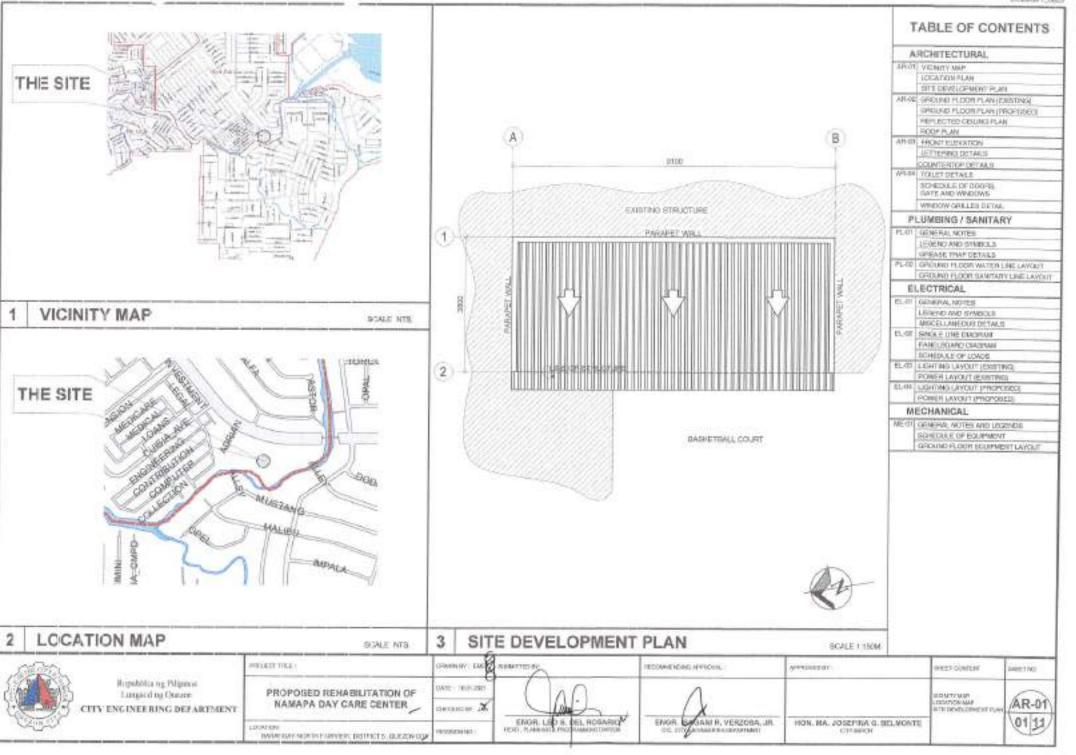


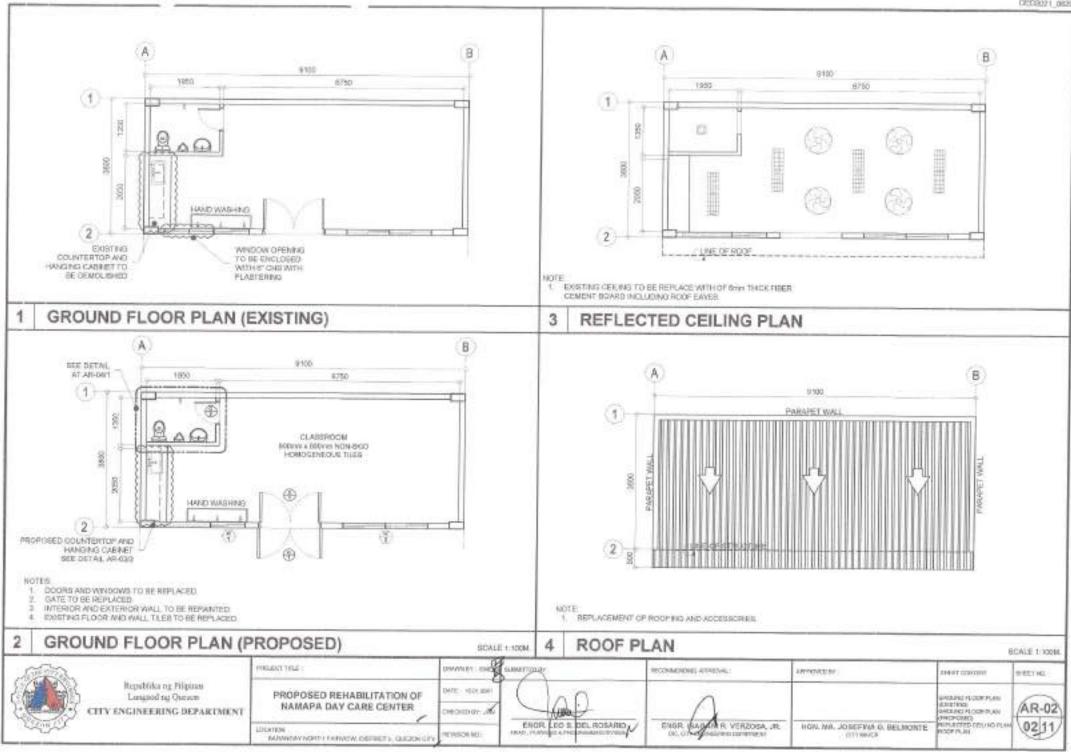


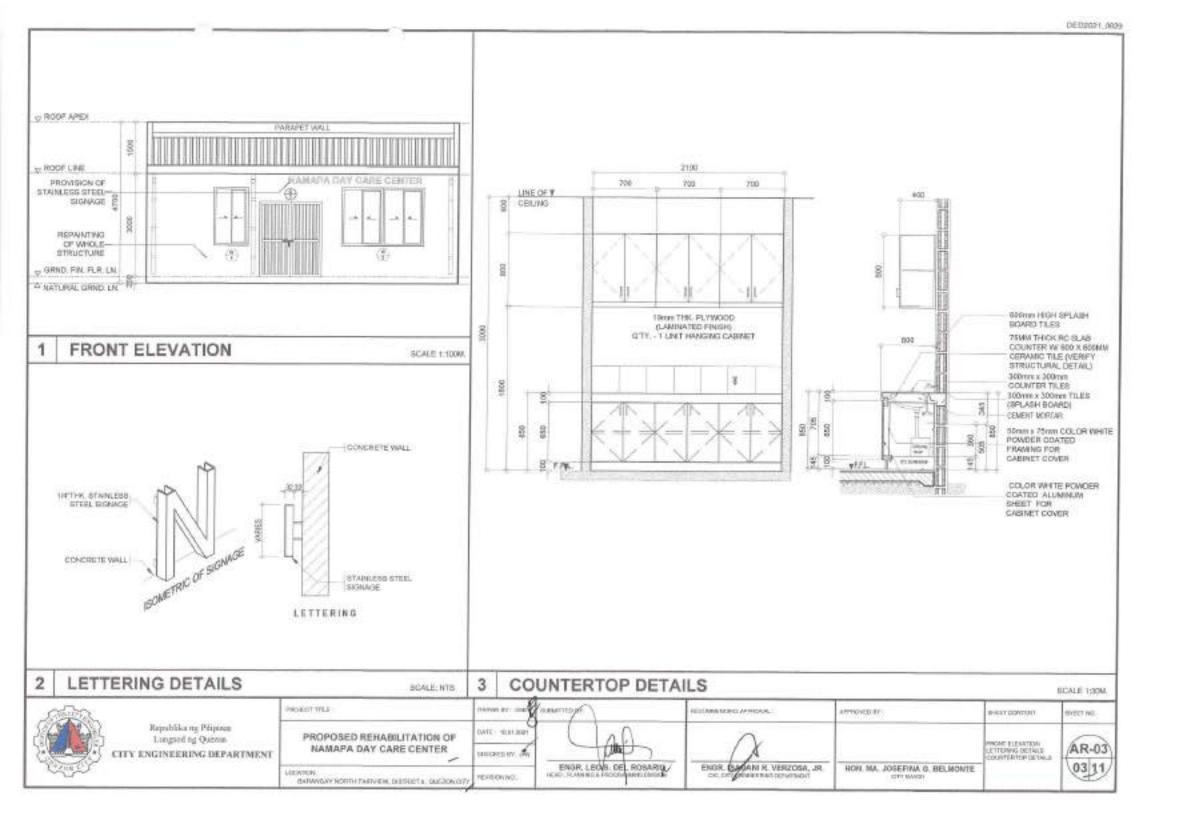
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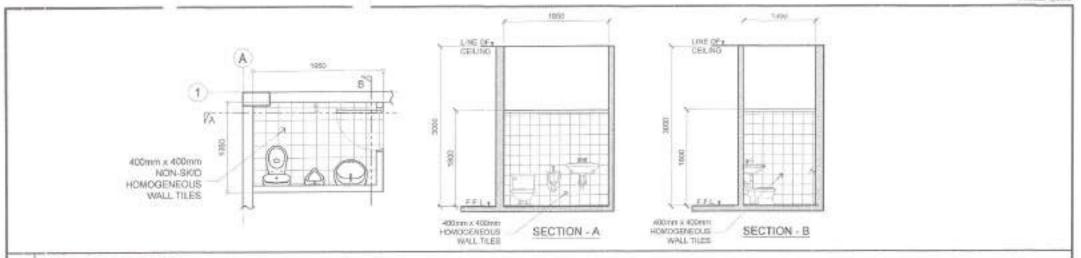
- 1. REPLACEMENT OF LIGHTING FIXTURES AND SWITCHES
- 2. REPLACEMENT OF CEILING ORBIT FAN.

#### LIGHTING LAYOUT (PROPOSED) SCALE: 1: 100M PROMET TITLE PERMITTED THE PROPERTY OF THE PERMITTED THE RECORDING NOTIFICATION. APROVEDBE: seed continu SHEETING Republika og Pispons rene baseauch PROPOSED REHABILITATION OF Langeod ng Querin EL-02 MMTC DAY CARE CENTER oeconor Ai PAROLOGICA PARAMETER PROPERTY. CITY ENGINEERING DEPARTMENT 09 09 ENGHLISA AM H. VERZOSA, JR. ENGR. LEG 8. DEL ROSARIO HON, MA. JOSEFINA G. BELMONTE HIVEDOWNE.



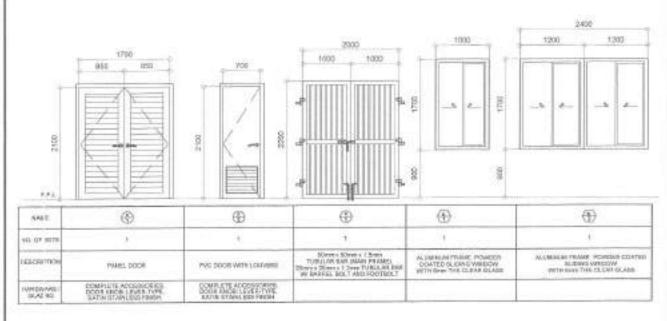


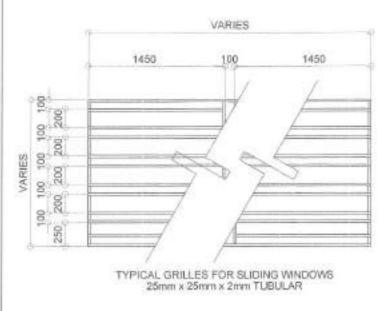




#### 1 TOILET DETAILS

SICALE: 1:40M.





### 2 SCHEDULE OF DOORS, GATE AND WINDOWS

HIGGEST TITUS

BCALE: 140M.

WINDOW GRILLES DETAIL

STITLINGUIT.

SCALE: NYS

натомия



Republika ng Pinjanie Langsod ng Quaron CHY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF NAMAPA DAY CARE CENTER

BANKSAY NOTTH PARKETS, DISTRICTS GUILDINGTH

ENGR SEASON R. VERZOSA, JR. OC. O'V plantenin province

поставления интехна

TOLET DE WALD
ECHEDIAG OF DOORS.
BATE WAS WASCONG
WANCOW SPELIES DOTAG.
HOVE WAS JOSEPHAN G. BELEFONTE

CITYMOUTH

AR-04 04 11

DRIED NO.

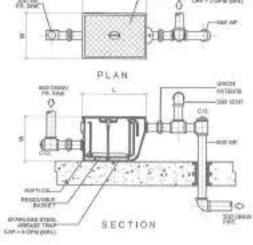
- \$ All plunding works and materials indicated hower shall be complaint to the provisions of the letter edition of National Plumbing Code, the uses and regulations of heal authorize conserved, the rules and regulations of heal-Utility companies and the provisions of the land dennique when and when applicable,
- 2 The plumbing layout is only diagrammed at pipers, disproves and check valves shall be excessived as much sepossible. It is not intended to show the actual dimension of the pipes and follows in the drawing but all the pipes. and fetures shall be installed as and of see indicated. Any relocation will require proper security or relation with other trades.
- \$ The planting contradio shall waify all coicing utilities at the site and shall conduct the woo with other trades.
- 4 Piper, shall not be enteached in structural mentions to less otherwise specified or aboved.
- If Minimum dops for had postal sever times shall be 1% and for drain times shall be 3%.
- & Proposed planning utilities shall conform with the actual issuition, digits and most obvioles of all access pipeut-littles.
- If Dymniction of flatures to pipes and filtings shall be according to executacious's specifications.
- A All Soot drains shall be vented individually
- 9 AS deen out females shall be fluid-mounted to wall and shall be provided with pointed cover caps. Do not install four door outs wood at lines on grack and makes are set rubject to traffic
- 18 All underground Q. I, pipes in direct contact with soil shall be provided with ten (2) costs of projective to covering and evapped with julia clicity thoroughly ossiked in far or septial (
- 41 Provide want stack and year pipe thru mot of cest iron service weight as required.
- 12 All sent but pipes shall be of approved quality and G.I. pipes for water challed the shall be Schedul 40 U.S. standard yought.
- 13 Provide gate vitines to all water expely investo februs.
- MLAT hot water lines shall be provided with proper insulation where expensed.
- 15 All individual trenches to fatures or group of fatures analor againment shall be provided with an charakses or copped version gips extensions of dimensions as shown:
- H = 450 em for 19 mm 8 and larger
- H = 300 mm for 12 mm (3 and smaller
- 16 At hose bibbs shall be 19 ram (\$134" \$") unless stherwise indicated.
- 17 first pipe of explicitant is 57 mm higher than the siphon pipe which is 30 mm higher has the culat pipe.
- \$8.All plumbing works and money of construction stall be order too discl supervision of an able and duly boroad. Withter Plantille or Registered Sanitary Engineer. Any discrepancies found in plan shall be notified to the come pospor.

**HODINGS** 

DARANGET NORTH FARMERS, MEDICAL B. MARCHANIST

FIXTUR	ER-AND OTHER LEGISMS	II SEVEN WA	BY DWA STE	NT SYSTEM
FD FD R-F0 WC LAV URE FS BC	PLOOR DISAN PROOF DISAN AHOWER WATER CLOSET LAWATORY URHAL KITCHEN SANC BULDING DISAN DRICK DRIVEN DRICK DISAN DRICK DRIVEN DRIVEN DRICK DRIVEN D	0	SPINE VS.PIGC UP OB SVTR SS FCO/GCS	SOIL PIPS I WALTE PIPE VEW STACK FVENT AT CELLING STONE DROWNING. DIMANNEE STACK I DOWNSPOLIT STACK VENTEXTENERS THROUGH ROSE SOIL STACK FLOOR CLEWIOUT (SHOURE CLEWIOLE)
50 DB FF a 6-C SB A	FLOORIGIBUNG CLEANOUT DOWNSPOUT millioner IN COMMETTER SHOWED ORAN CATCH SALEY MARKOLE DIRECTION OF FLOW GREAGE YEAR		coo secon secon secon Abica co	DELING CLEAN-OUT SLAW THE DISCONNESS FREE AFEA DISCONNESS FREE AFEA DISCONNESS FREE DEEX SHAM

#### LEGENDS AND SYMBOLS



WELLERING DELWATMENT

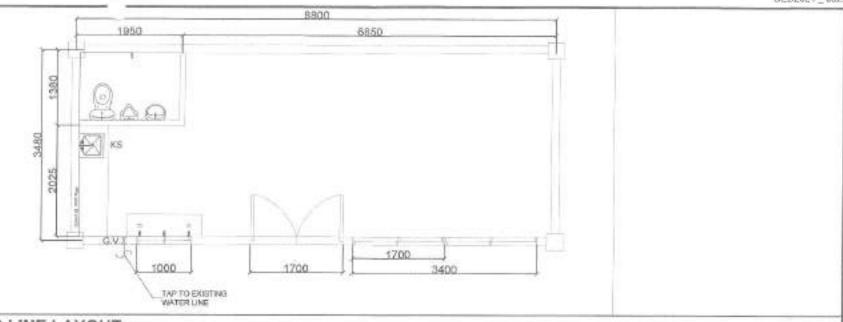
HON, MA, JOSEFINA O, BELMONTE

DETENTOR

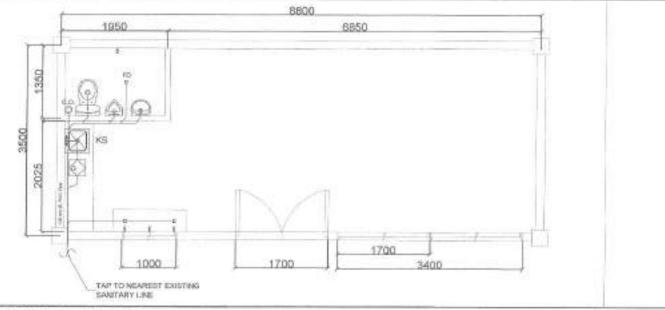
GREASE TEVE DETAIL

#### **GENERAL NOTES GREASE TRAP DETAIL** SCALE: 150 M P) DEPOSITION AS PROPERTY NAME: DESCRIPTION OF THE RECORDERENDE APPRIENTAL PER CONTROL THETHOD TERMS CONTRACTOR Republikating Pilipinas WOLTER DOM PROPOSED REHABILITATION OF CENEWL NOTEL Lanused ne Queen NAMAPA DAY CARE CENTER PL-01 CITY ENGINEERING DEPARTMENT DHECKEDAY: AND LEODINS & BYMBOLD ENGR. LEO S DEL ROSARIO ENGR. PLANTON R. VERZOSA, JR.

CHROSENSE



#### 1 GROUND FLOOR WATER LINE LAYOUT



2 GROUND FLOOR SANITARY LINE LAYOUT

SCALE HIDM

CHTTESH.



Republika ng Pilipines Lungsed ng Quesson CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF NAMAPA DAY CARE CENTER

HACKET TITLE

SHAW, SP. SAME SUMMETTELSP

SHIS: SIGILIZED

O-ECKSTORY 16

ENGR. LEG S. Del. ROSÓNIJO

4541. () MIRREL LPOLIZANJONI (LPOLIZANJONI (LPOLIZANJO

ENGR. BANN R. VERZOBA, JR.

RECORDERED APPEARA

SROUKD R UNE LIVOL HON, MA, JOSEFINA O: BELMONTE GROUND R

OTFY MAYOR DISCOLORY

APPROVED BY

GROUND RUGGE WAREN
UNE LAYOUT
GROUND RUGGE
G

THEST CONTONT

#### GENERAL NOTES:

- 1. ALL BUSINESSAL WORRES BHALL BE DONE IN ICCORDINGS WITH THE REQUISIONS OF THE LATEST FORTION OF THE PROJECTION. ELECTRICAL CODE, THE LAWS AND DEPARTMENTS OF THE LOCAL CODE OF DEPORTMENT AND THE ROOM REJECTS OF THE LOCKS POWER AND TRUSPHONE LITTLEY COMPANY
- 2. THE CONTRACTOR WHALL ISSUED ALL PERMITS AND PAY ALL PERMITS OF THE WORK AND SHALL PLANED THE WHEN THROUGH THE IDECREERS, FIRM, DEPTHECATES OF ELECTRICAL REPRESENTATION AND APPROVAL PROPERTY. DOVERNMENT AUTOMOBITES FOR COMPLETION OF MORE.
- 3. NU EMPECED BRANCH O POUT EMALL BY PMC CONDUCTS AND FOR DOROBBD BESTALLATION D-MLL BY AND SUPPORTED BY CONDUCT CLAMPS BURNING SSCIELL BURTON.
- 4. MALESCEE BRALES PROVEDED BY THE CONTROL TO RESPOND TO FACE THAT BETT PALLED EVEN IF THESE WE NOT RECORD ON THE PUNIS. WERE DIS ALL PALLEDGE WAY, HE COMPLIED ON THE COOR RECORDINGS. ILIDIAL OHIGH DEVANDAD TO THE ENGINEER FOR APPROVAL PRIOR TO PARROCATION LOCKTON OF PULLBORIS SHALL WE WITHOUGH THE WICHTESTEROHERS AND WIST BE REPLECTED ON THE VISIOULT PLAN.
- II. ALL POWER COTOTE AND INSTOLER DIALS BE DROUGHOUT FOR WITH MANUE IN COTOTE TOTAL
- 4. PROVIDE GROUND PAGET ICLININGST SUPPRINGED WAS CONTRIBUTED FOR LONGIS MARRIED TOPOTO THE PLAN.
- T. ALL HETALLIC CONDUTTS, CHRISTIS AND EQUIPMENT SHALL BE PROPERLY BROWNED AND SOLVED.
- 4. UNLESS O'S BOWEL SOTED, BROWTING HEAD IT FOR WALL AD LITTLE DESCRIPTION AS AS FOLLOWS:

RECEPTACLE OUTLET . 380 MM APP . (190MM ABOVE MORRORG COUNTER). LIGHTING SWITCH - 1400 MW ARP PRANCED INCHARD - 1905 RM AFE

- 8. HERBITO MEGANICAL, PLIMENT ANY TIME PROTECTION CRIMANUS FOR EXTINCE MICLOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL BEQUENCES AS SPECIFIES AND OR SHOWN LIGHER THEIR RESPECTIVE BICTURE.
- 15. ALL MATRAGALS for as upont sive, I sail or the labor quality. Wavey televillar program.
- 11. THE DRAWNESS MAD EPOCHOLISMS ARE INTEREST TO PRESENT CONSTRUCTIONS AND INCADOUTLINGSECONPRIORITY THE PROJECT BUT DO NOT RECESSABLY EXPOCATED EXCESSED ACTUAL LISCATIONS, LISTED AND DISTANCISHED THE EXAMPLET. THE CONTRACTOR IS HERROY REQUIRED TO MAKE BUOK ADJUSTMENT AT THE JOSSITE AS LODGISON DISTRIBUS. WAS LEWIS LINE GOVERNED BY ACTUAL FIELD CONDITIONS.
- 12. ANY DECREPART BETWEEN THE PLANS ARE INFOFEMENTIAL SHALL BE INDUSTRY TO THE AFFERDING OF THE DECREPARTS DUARTINGATION DESIGNA
- 73. FUL DOMENO AND CONVENIENCE CUTLET CHOOSE OF VALUE STILL MIN. THEN DODGE WAS UNLESS OF ANY MIN HETER. MANAGED OF HITTE SHALL BEST & SO, HALL COPPET HAVE HILL WIRES HAD CASHES SHALL BE COLOR COOKS HIS PELLONA.

1,680 T - 0003 LINE E-HELLOW HENTERS - WHITE

14 BOXES HAVE CUTTERS ENCLOSURE BANK BY FARMY APPROXIMATION WITH THE HARM AND LOWIS MADELLA RECTHOF THE WOOLT SURFACE STEEL

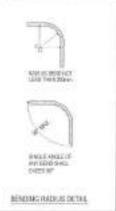
UP TO HIS JOHN THE JOHN ON HI PARKIED WITH HETAL PRIMER SPOKY AND TOPODAT CHER 192.40 MW BUT NOT TAKE BUT SO SA TUPRATRIC WITH METAL PRIMER EPICKY AND TOPICIAT OHER HET 30 MM BLIT HOT ONER; HO MM BA12 PANTED WITH METAL PRIMER EPOXY AND TOPICALT CHERTIS MA GA INFRANTICI WITH MITTAL PRIMER EPCICI AND TOPODAT

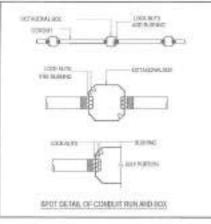
- 16. AULEUSCHMAN, WORKS HEREN GRALL BE EXECUTED BY CAPERSONED MEN LANGER THE DIRECT SUPERVISION OF A FULL TAN LICENSED B. RICTISCO. BULBERS AND ADDAY ADDIVISITED BOTTON CONTRIBUTION OF SCAN WORKS WALL BE MEATLY PLACED SECURELY PARTIESD AND PROPERLY PARSHED.
- IS. THREOF SERVICE ENTRANCE SHALL BE MINULE PHASE, TRICKING PLUS ORGANIC, REHERTS, TRICKINGSWAL
- 17. CONDUTE MIND ONE EHALL THOSE BE ROSE THAT THE EQUIVALIBIT OF YOUR DIARMST WHAT THE WAS ALL CONDUST BEYOR SHALL BE THILD WICE BY LISTING HYDRAULIC SIGNEDIAN. Reference Bings to RAD LE MUST be in Appointment TO THE CODE REQUIREMENTS
- 18. OPON COMPLETION OF ELECTRICAL CONSTRUCTION MORK, INDULATION RESIDENCE TEST AND PLACTICINALITY TEST SHALL. BE PERFORMED IN THE COMMISCION INCLUDING PITTER METALLATION TO BE PERFORMED INCOMES ON FORME WYNOVED BY THE CURRON CITY INSTRUMENT OFFWEIGHT REPRESENTATION. THE OFFICE PROSECULAR PROSECULAR FOR ELECTRICAL OVERSEE. SHALL ROY BE MORE THAN 5 OHAS COMMUNICATION SHOULDING RESIDENCE OHAS INCTICATION FOR

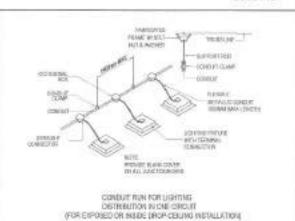
≢Ø <sub>AGU</sub>	ACU Outes	(%)	Orbit Fair with Selector Swlich	
0	Duplex Convenience Cultet	s.	One Gang Switch	
(11411)	1200mm x 300mm LED tyte in Troffer Fisture	S2,	Two Geog Switch	
-	1x18w T8 LED Tube Box Type Lighting Finture	S3,	Three Gang Switch	
000	14w LED Light Bulb in Plastic Receptacks			

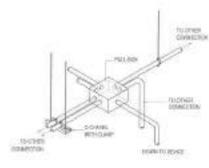
#### LEGEND & SYMBOLS

BOALE MIS:

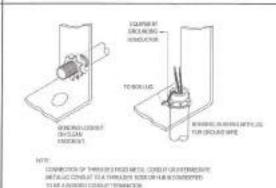








PROPER CONDUIT LAYOUT MIPLAL BOX



BOYDED PAGENAY TERMINATION FOR SYEST METAL

### **GENERAL NOTES**

SCALE MTS.

#### MISCELLANEOUS DETAILS

SCALE NTS



Republika ng Phipinus Langsod og Queson CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF NAMAPA DAY CARE CENTER

SANWOWY MORTH PARWIEW, DISTINCT S. GLICZINGT

PROJECT TITLE

BRIGHT OVE BOUNDTED BY sale reprinted oneconor: K ENDR. LED B. DEL ROSARIO HARD, PLANSING & PROSPREMENTS STORED SEVEROVAD:



RECOMMENDING KRYTOVIK.

ENGR. BASKNIR. VERZOBA, JR.

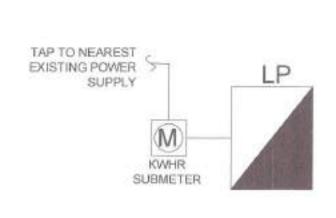
APPROVAD DO

DENERAL NOTES ECENC KIRD SYMBOLS INSCRIBITATION OF THE PROPERTY. HON, MA. JOSEFYNA G. BELBONTS DETY-MAYOR

THEORET CONTROL

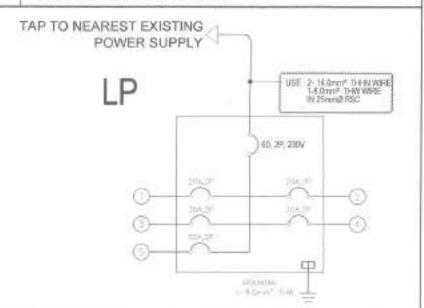


DITTER



SINGLE LINE DIAGRAM

SCALE NTS



SANGL I	UAWE:LP	7.1						MAIN	89AT, 100	WE, SE, 230VW	V		
cetwo.	DESCRIPTION	1040		RATING OVER CURRENT PROTECTION					197M		CONDUCT		
			mu.	98	v	A .	CHARLEST PROPERTION			SEE OF WHE	211	TVPS	
		1.0	C.O.			-	AT.	M		7994	ti se il sectioni di	rend	PHYS
1	DEMINGOUNET	1		300	210	2:17	30	381	k.	1007-09	3-25mm*1W8+ 3-23mm*1W(4)	89	PIC
1	CONVENIENCE OUTLET		4	730	296	3.12	39	300	à	800 ON	3-55eer*T006 = 3-2-lext*T000;	26	WC
1.	+CSURERA			1300	283	5.22	30	200	10	10(1-0)(	3-3-Smir* (1976+ 3-2-Smir* 1993)	26	PVC
4	Acu demost			1860	250	8.00	38	300	2	BOLY ON	2-Silmer/Title+ 3-2-Orien*TitleQ	26	HI.
1	MASI			1000	230	4.35	30	300	1	2017-0N			
	1004			5380	Lucia.	22.87							

6045, 1000A, 25, 289VW

in 25 early RSC

3-14mm\* (1844 + 1-8-8mm\* (18W-65)

FIX DESIGNED.

PANELBOARD DIAGRAM

SCALE NTS

SCHEDULE OF LOADS

 $\beta_{i} = \frac{5260}{234} + (3 \times 3104)$ 

 $f_{\rm eff} = 24.07 \times 125\%$ 

 $h_{\rm c} = 24.82~{\rm A}$ 

 $I_{\rm co}=21.09\,\mathrm{s}$ 

SCALE NI'S

TVETTAGG TERM

Republika ng Pilipings Lungsod ag Queron CITY ENGINEERING DEPARTMENT PROMOT TRUE

PROPOSED REHABILITATION OF NAMAPA DAY CARE CENTER

SANAGAT NORTH HARVEN, DISTRET S. GESCHOTT

DAYS SCHOOL tercoccoer of

REMINDENCE:

DENNIST THE PLONTED BY ENOR LEG S. DEL ROSAMA

AVGPPN AVGROUNDOWN

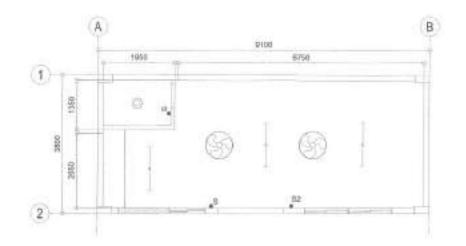
ENGRASARAN H. VERZOBA, JR.

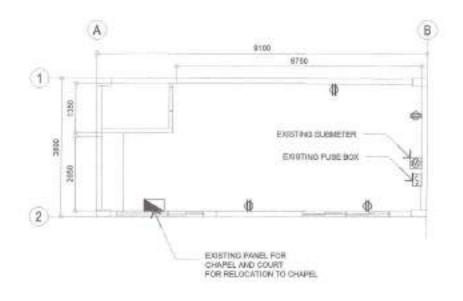
WHIRDWING BY

SWOLE LINE DANGOW PARELSOARD CARDAN SCHEDUL OF LOADS HON, MA, JOSEFINA G. BELMONTE CITY RINTER

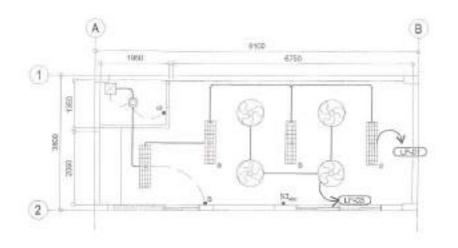
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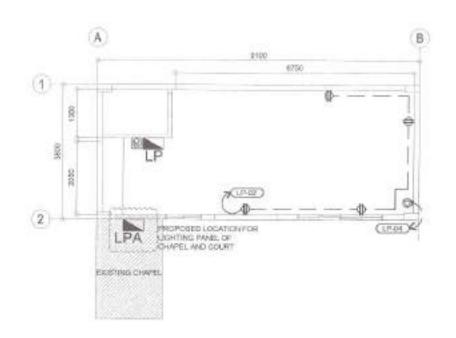
DALLER











APPROVED BY:

LIGHTING LAYOUT (PROPOSED)

SCALE: 1:75W DESCRIPTION OF THE PARTY OF THE POWER LAYOUT (PROPOSED) прознатамомо илизому.

SCALE 175M 20027-62

DESCRIPTION TO SHE

Republika og Pilipinas Lungsoding Questin CITY ENGINEERING DEPARTMENT PRODUCT TOLK!

PROPOSED REHABILITATION OF NAMAPA DAY CARE CENTER

SARAMIA FILITH FINISHESE, DISTRICT IS GUEDOVICE

TRRITURE - JAME moran er Su DEPONDENCE:

ENGR. LEPS. DEL ROSARD

DIGRESS OF THE STREET OF THE S

LIGHTHIS LOYDUT PROPOSEDI POMER LAYOUT BROMER LAYOUT HON, MA, JOSEFINA B, BELMONTE

EL-04 10 11

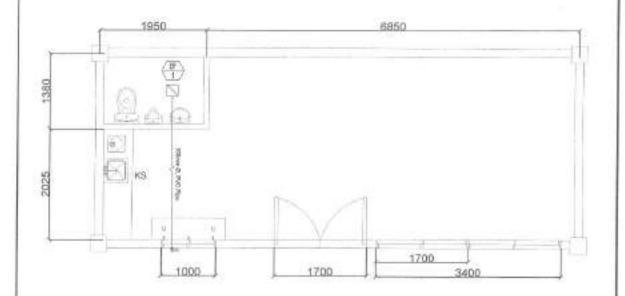
- 1 ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PRIME CODE AND THE FILLES AND REGULATIONS OF QUEZON CITY.
- 2. THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS.
- 3. THE WORKS SHALL BE EXECUTED IN OLDSE COORDINATION. WITH ALL OTHER TRADES.
- 4. ALL MECONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 50% RH
- 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURERS CATALOGUE, SPECIFICATIONS. SAMPLES, INCLUDING VIBRATION (SOLATORS REFORE) EXECUTION OF WORK.
- 8. ALL FLOOR SLAB MOUNTED VIBRATING EQUIPMENT SHALL BE PROVIDED WITH VIERATION ISOLATORS TO PREVENT WERATIONS AND NOISE TRANSMISSION.
- 7. EXHAUST FAIN SHALL SE PROVIDED WITH SUITABLE FLEDBLE CONNECTIONS TO DISCHARGE DUCT.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING. AND COMMISSIONING OF THE WHOLE VENTILATION AND AUROCONDITIONING SYSTEM AND INSTALLATION.
- 9. ALL POWER WIRING SHALL BE ELECTRICAL AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL.
- 10. PROVIDE CONTROL WIRING FOR AIRCONDITIONING EQUIPMENT.
- 11. PROVIDE THERMOSTAT FOR ALL INDIGOR UNITS / FAVI COIL. UNITE
- 12. VERIFY LOCATION OF CONTROLLERS AND SWITCHES ON ELECTRICAL PLANS.
- 13. AU, PIPE EQUIPMENT CONDENSATE ORAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAWN (AD ACE)
- H. PROVIDE CLADES, 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.



#### EXHAUST FAR

DESIGNATION	LOCATION GUARTITY.	1996	AR VOLUME	PONEH WALTS	ELEC	TRICK, S	URBLY	HEMARKS
(F)	ASS-CWIL ONFLARS 1 SET	MODERNO MODERNO	(4).40	20	2008 VOLTE	PHAGE	HERTZ	UNIT SHULLE SSUPPLE WITH DECKNISH OUTLE THERED OUT ADMITTED ONE FOLISHING A REVIEW TO PROVIDE SHOULD BE SH

#### SCHEDULE OF EQUIPMENT



#### **GENERAL NOTES AND LEGENDS**

GROUND FLOOR EQUIPMENT LAYOUT

SCALE: 1:125 M SHEET HOL.



Republikang Piipine Longsod ng Queron CITY ENGINEERING DEPARTMENT

PROGRETTWILE

PROPOSED REHABILITATION OF NAMAPA DAY CARE CENTER

CONTRACTOR BANAMARI HORTH THRIVEW, DISTRICT S. GLEZON OT'S CHAMPLE COL DE LA MANTEN PER DATE: +8.01.0001

CHECKED BY 449

PEYRING NO.

ENGR. LIES S. DEL ROSARIO

PROTESTA DESCRIPTIONS

APPROVED BY:

ENGR. ASKRANI R. VERZOSA, JR. Dic.om (Morces and pervansion)

HON, MA, JOSEFINA G, BELMONTE

CITY MAYOR, OLDSON CITY

SENERAL WITES LEGENOS A SYNBOLO

SHEET CONTINUE

ME-01 11 11 SCHEDULE OF EQUENCIAL

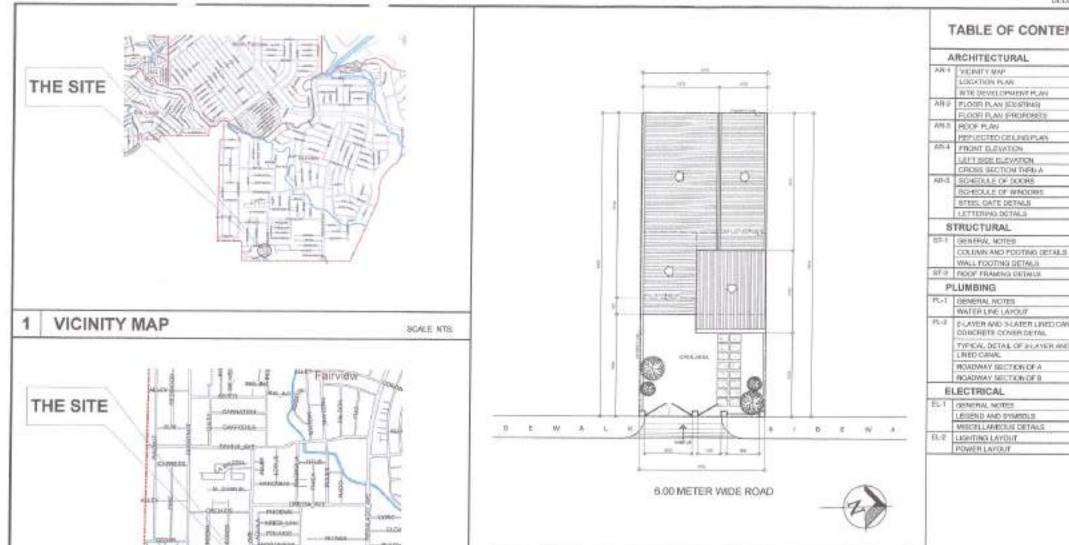


TABLE OF CONTENTS

ARCHITECTURAL ART VEHILL MAP LOCKTION PLAN. WITE DEVELOPMENT PLAN ARE FLOOR PLAN (EXISTENCE) FLOOR PLAN (PROPOSES) ARE ROOF PLAN PER LECTED CELLING PLAN ARCH FROM D.EWTON LEFT SIDE ELEVATION CROSS SECTION THRU A AR4 SCHEDULE OF DOORS SCHOOLE OF WINDOWS BTEISL DATE DETAILS LETTERPAS DOTALS STRUCTURAL

WALL FOOTING DETAILS.

STOP FROM FRANCIS DETAILS

WATER LINE LAYOUT

AWAD CHARLESTAND SHATER LINED CAWA. CONCRETE COVER DETAIL

> TYPICAL DETAIL OF BLAYER AND SHATEH LINED CAMAL ROADWAY SECTION OF A

EL-1 GENERAL NOTES

MISCELLANEOUS DETAILS

POWER LAYOUT

LOCATION MAP

SCALE NTS.

SITE DEVELOPMENT PLAN

SCALE 1:190M.

APPROVED BY

Republika ng Pilipinar Largood ng Quentn CITY ENGINEERING DEPARTMENT

URLINA DAY CARE CENTER

STREET FRANCES DISTRICTS QUEUDISCITS

- 10 km kW

PROJECT TOTALS:

-MANAGEME

DOWN IN THE DATE: 10.11(2) PROPOSED REHABILITATION OF SITIO

> December In REPROMINE.





RECOMMENDED RYTOWN.

B I B E W A L K

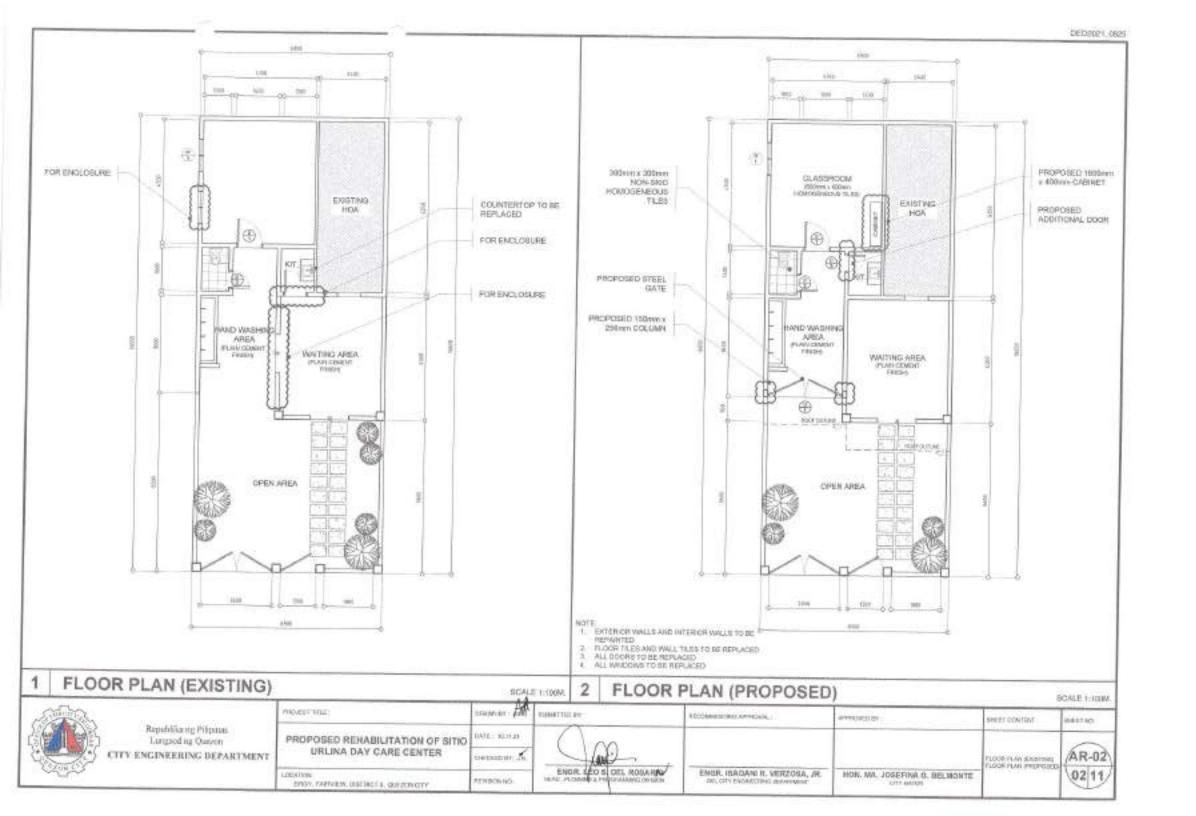
HON, MA. JOSEFINA G. BELMONTE

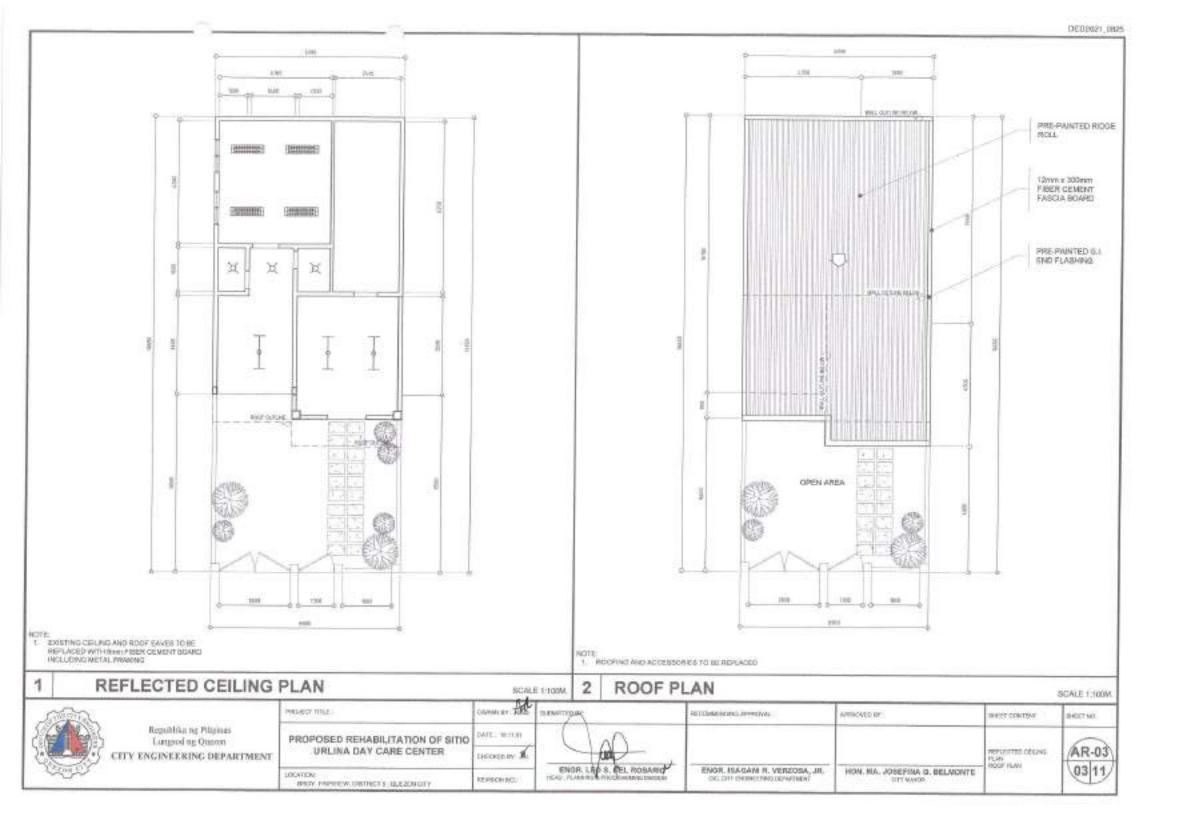
WICHITY HAP LOCATION MAP WITE DEVOLOPMENT FLA

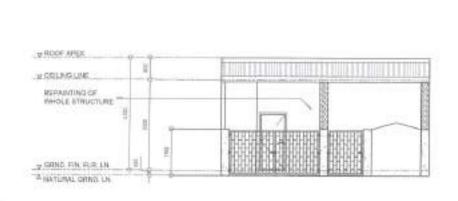
BHEST CONTUNT

AR-01

DESCRIPTION.







PROVIDENCE

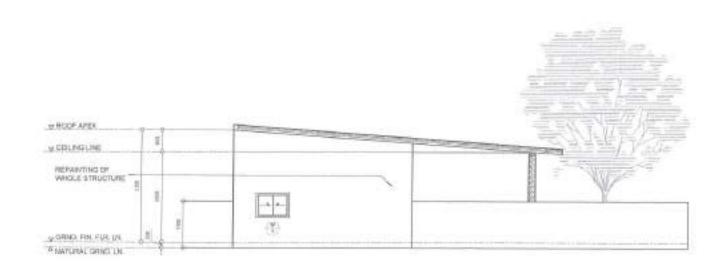
STRUCTURE

FRONT ELEVATION

SCAUD 1:100M

CROSS SECTION THRU-A

SCALE 1:100M.



### 3 LEFT SIDE ELEVATION

SCALE 1:100M



Republika ng Pilipinus Lungsod ng Quaven CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF SITIO URLINA DAY CARE CENTER

BROY, FWRITEW, ORTHOTH, OURSON CITY.

DATE SETTER



ENGR. ISAGAM R. VERZOSA, JR. OC. OTT DESIGN IN SECURIOR

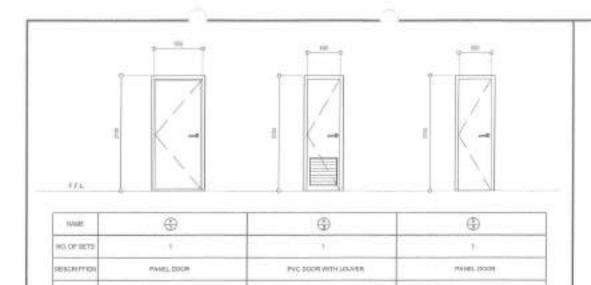
RECOMMENDING METHODAY.

HON, NA. JOSEPHA G. BELMONTE

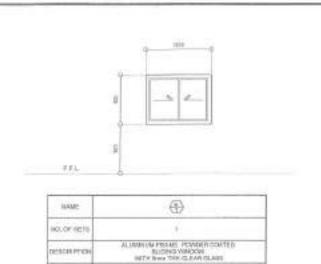
WHICH DON'T DING

MRROVED DE

AR-04 04 11



70017



CLOSS ROOM

1 SCHEDULE OF DOORS

ENTERNICE / IZLABBROOM

EDSATION

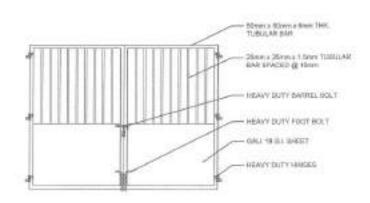
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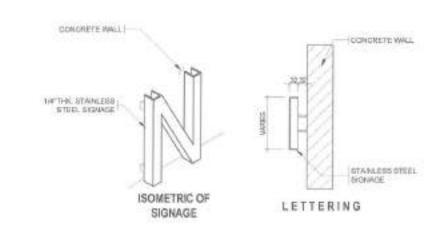
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3 STEEL GATE DETAILS

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Republika ng Pilipius Lungsof ng Quezon CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF SITIO URLINA DAY CARE CENTER

LODATION: BROW, PARTIEW, DRITHOLS - CLARZONICTY

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MONOGRAMS.

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ENGR. LIDES, DES. ROSARIA

ENGR. ISAGANI R. VERZOSA, JR. OG DITTENOMETRIAL SCHARLOW

RECORDERDING APPROVAL

HON, MA. JOSEFIRA G. BELMONTE

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AUDITORIA LONGANI MENGO	9.94%
WORKER, COLMAN WILLS	2095

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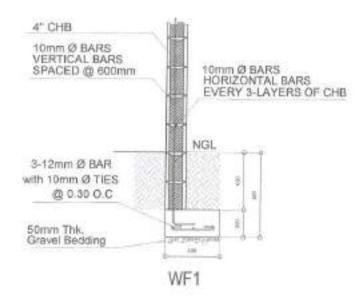
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### COLUMN AND FOOTING DETAILS

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#### **GENERAL NOTES**

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CITY ENGINEERING DEPARTMENT

PROPOSED REHABILITATION OF SITIO URLINA DAY CARE CENTER

BEGS FARMEN DISTRICT IS QUESTINGTHE

DATE: W.D.R. OKDODEN: IN FEMBERNO.

ENGR. UNO S. DEL ROSARSO

RESOMNENDING APPROVING

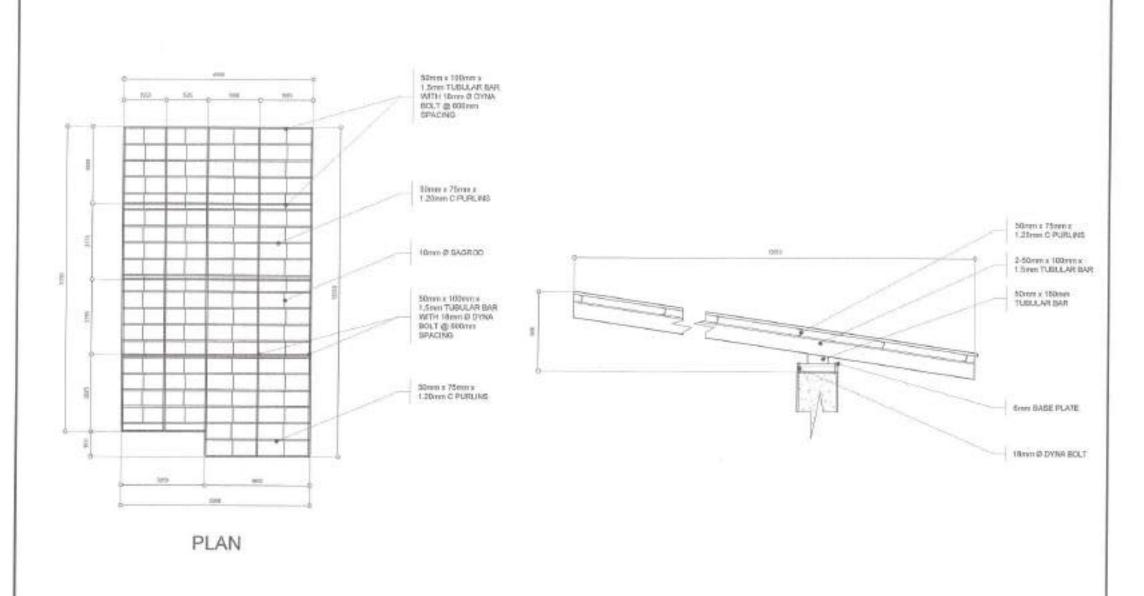
ENGR. ISAGANI R. VERZOSA, JR. O.C. DITY (School Intel® Language)

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OTHER DESIGNATION

CONDIAL WOTER COLLINA AND PORTING ST-01 06 11

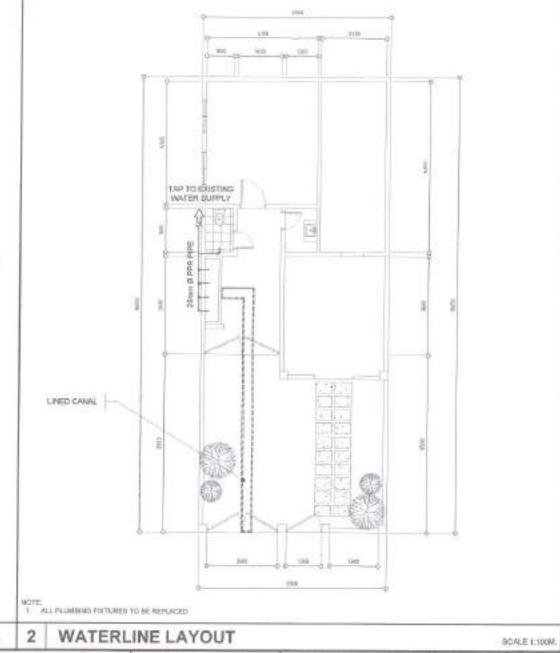
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- 1 All plumbing works and materials indicated herein shall be compliant to the provisions of the latest edition of National Plumbing Code, the rules and regulations of local authorities concurred, the rules and regulations of local utility companies and the provisions of the land developer when and where applicable.
- 2 The plumbing layout is only disgrammatic; pipes, cleanouts and check valves shall be conceded 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 entouded in structural members unless otherwise specified or allowed.
- 5 Minknum 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 invertible providen of all existing pipesiutilities.
- 7 Cornection of futures to pipes and fittings shall be according to manufacturer's specifications.
- 8 All foor drains shall be vented individually.
- 9 All clean out femules shall be flush-recurred to wall and shall be provided with politihed cover cage. Do not install floor clean outs except at lines on grade and sevice areas not subject to traffic.
- 16 All underground G.I. piges in direct contact with soil shall be provided with two [2] coats of protective far covering and wrapped with jute cloth thoroughly scaled in far or applied.
- 11 Provide vent stack and vent pipe thru roof of cast from service weight as required.
- 12 All cast iron pipes shall be of approved quality and G.f. pipes for water distribution lines shall be Schedule 40 U.S. standard weight.
- 13 Provide gate valves to all water supply lines to fatures.
- 14 All hot water lines shall be provided with proper insulation whore exposed.
- 15 All individual breaches to flutures or group of fintures 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 blobs shall be 19 mm 2 (3/4" 25 unless otherwise indicated.
- 17 falet pipe of septic tame is 50 mm higher than the siphon pipe which is 30 mm higher than the outlet pipe.
- 18 All plumbing works and manner of construction shall be under the direct supervision of an able and duly itensed. Master Plumber of Registered Sanitory Engineer. Any discrepancies found in plan shall be notified to the same person.

PROSECUTION



### 1 GENERAL NOTES

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Republika ng Pilipinas Langrod ng Quasan TTY ENG INEERING DEPARTMENT PROPOSED REHABILITATION OF SITIO URLINA DAY CARE CENTER

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ENGR. SEOS. GEL. ROSLAND

ENOR ISAGAN R. VERZOSA, JR.

RECOMMENDATION APPROVAL

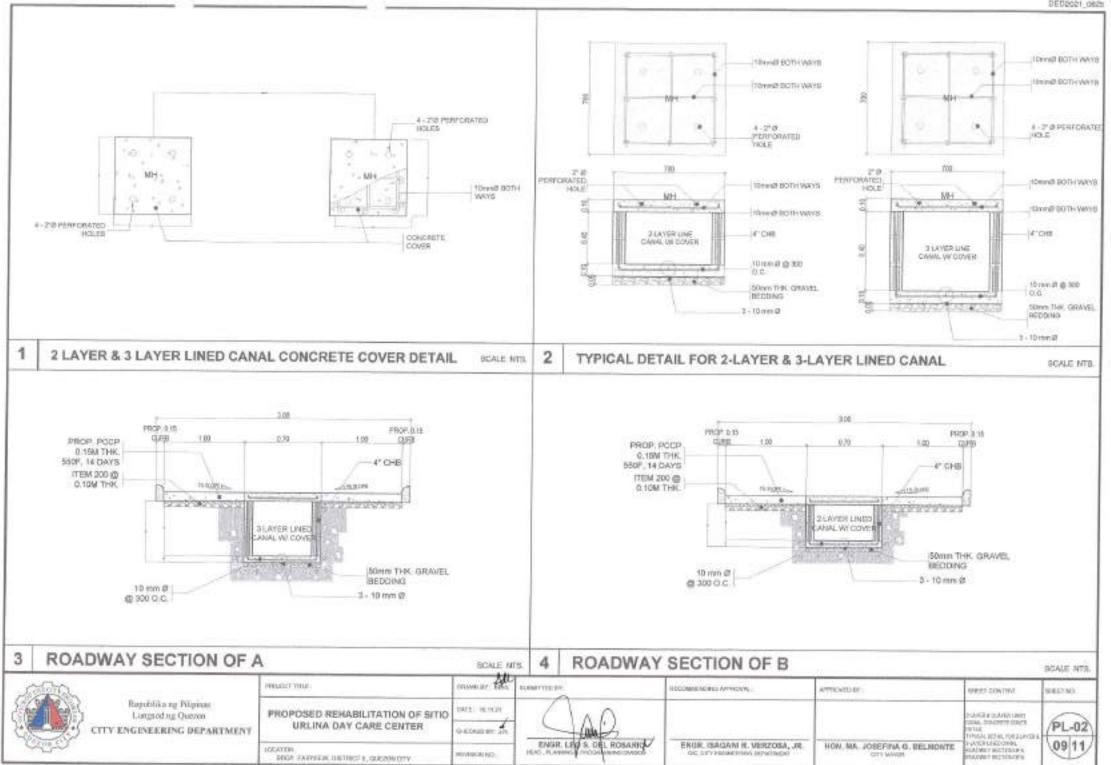
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- 1. ALL ELECTRICAL HORSE BHILL BE DOSE BY ACCURATIONS WITH THE PROVISION OF THE LATEST EXTENDS OF THE PRESENCE. ELECTRICAL DOOR, THE LAKE WID ORDERWINDOOD IN THE LOCAL COOR INFORCED AUTHORITIES WIS THE REQUIREMENTS OF THE LOOKL HOWER HIS TELEPHONE LITTLEY-COMPAIN.
- 2. THE CONTRACTOR SHALL DECIRE ALL PERMITS AND YOUR DECIRED FOR THE WORK AND GHALL FLERISH THE OWNEY THROUGH THE CHIEVESTS, THAN, OCTTIFICATES OF ELECTRICAL MISPECTION AND APPROVA, AND APPROVA CONTRIBUTION OF WORK COMPLETION OF WORK
- 2. ALL EMPEDIED INVAIGH CRICKING RHALLIE. PAC CONDUCTS AND YOR EXPOSED INCTILLATION BHILL BY INC SUPPORTED BY CONDUST CLAMPS EVERY TOO MILLION TER
- 4. FULL BOXES SHILL BE FROM DED BY THE CONTRACTOR WINDHESIAN TO FACE, NATE WHILE PLYLLING ISJURY THESIS. ARE HOT INDICATED ON THE RUMA. SIZEN OF ALL PLALEDGE BHILLIES CONNUTTED WARD ON THE CASE HIS JANASOM. SUBMIT GROW DRAWINGS TO THE CHEMICATION APPROVAL FROM TO PARRICATION LODATION OF PULLWOLD SHALL BE APPROVED BY THE APPOINTED TO ACCUSE TO AND MUST BE FEIT BOTTO ON THE NAS BLK. IT FLAN.
- IL ALL POWER DUTLETS AND DATTCHES DHILL BE UNDURING THYS WITH THRIBLES GLOTS FOR 2001.
- 45 PROVIDE DECEMBER ASSET OF THE PROPERTY STREET, THE PROPERTY OF THE PROPERTY
- T. ALL METALLIC CONDUCTS. CARRIETS AND ECRIPMENT SHALL BE PROPERLY DIFFORMED AND ROMERD.
- 4. CALCOLOTHERWISE NOTED, MOSINTING HEIGHT FOR WILL MOUNTRIO DEVICES 8-HU.) WE NO FOLLOW:

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TELEPHONE CUTLET ... 100 MILLARY CATA DITLET - 195 SEE SEE LIGHTING SWITCH - THOSPIN AFT PANEL ROAPE - 1909 HM ACE

- 6. REFER TO MED PARCAL PLANSING AND PINE PROTECTION DRIVENINGS FOR PARTIESS INITIOS OF SOUTHERN AS WELL AS THEIR CONFROL SEQUENCIE AS SPECIFICE WAS DRIVEN UNDER THEIR RESPECTIVE SECTIONS.
- THE ALL WATERSHIPS THE SELECTION AND SECURITY SHOULD THE SECURITY SHOULD NEW AND SHAPE WHICH SHOULD SHOULD
- 11. THE PRIMARY CARD SPECIFICATIONS AND INTERVIEW TO PRESENT GENERAL LAYOUT AND ERGAD OUTURED COORDINATE. THE PROJECT BUT DO NOT REDESCRARS Y MOSCATE DESCRIPED WOTUR. LODATIONS. LEVEL AND DETAHOUS OF THE EDUPATION THE CONTRACTION IS HERERY RECURSOR OF SMALL SUCH ACCURRENT AT THE AGOSTIC AS LOCATION, DISCHARGES AND LENGTH SHIP ROWINGHOUSE HAR ACTUAL FIRED CONDITIONS.
- 13. WIT DISCREPANCY BETWEEN THE PLANS HIS DESCRIPTIONS SHALL BE INDUSED TO THE ATTENDED OF THE WITHERS FOR CLAFEFNATION DEDISION
- 11. AUL DOFFING AND COMMORPING OUTLET OROUT O SHALL BE 3.3 ML THAM 2 YOFFER RATE UNLIES STHERWISE ROTSES MANAGE OF WIRE SHALL BE 10 SO, MAY CONTRIVENCE ALL WIRES AND CHILD SHALL BE COLOR COOKS ALL FOLLOWS:

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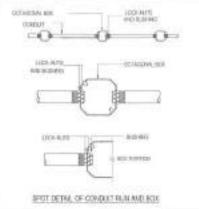
- 18 TYPE OF REPACE ENTRANCE ENGLISH SINGLE PHARE: TWO HIRE FLUG GROUND, GEHERTZ, SINV AD NOMERAL.
- 13. CONSUMERING DARK SHALL THERE HE WORK THAN THE EQUINAL FULL OF FOLING LIMITED RESIDENCE IN MAY ONE THIS WILL CONCUT BOYOF SHIPLE HE HELD WASHING HYDRIGH HYDRIGHTS INTEREST. MINIMUM HE HERS THORIS SHIPT BY HI ACCOMMISS. TO THE DODG REQUESTMENTS
- 15. SPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, SIGLA FLOW ARRISTMESS TRUST AND PLANCIFORMACTY TRST SHALL SEPONDED BY THE CONTRACTOR REQUESTS OF THE HIS VILLATION FO SE REPORTED IN DETAILS ON FORMS APPRICATED BY THE GUISION GITY ENGINEERING OSTAVITADAT REPRESENTATIVE. THE GROUND RESISTANCE FOR SUSCINEON, SYSTEMS SHILL NOT BE MORE THIN E CHAIS, COMMAND/CETCH GROUNDING RESISTANCE SHILL HET EXCEED E GIANI.

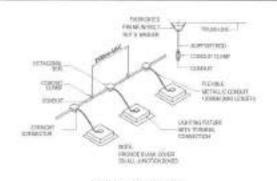


#### LEGEND & SYMBOLS

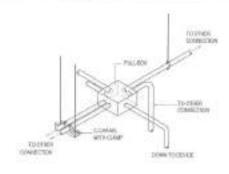
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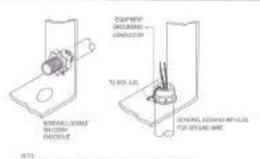




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### **GENERAL NOTES**

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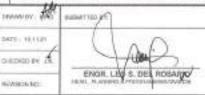
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Republika og Filipruss Lungsoding Queson CITY ENGINEERING DEPARTMENT PROPOSED REHABILITATION OF SITIO URLINA DAY CARE CENTER

BROY FARRIEW, DISTRICT 5, GLEZON DTY

PROJECT TITLES

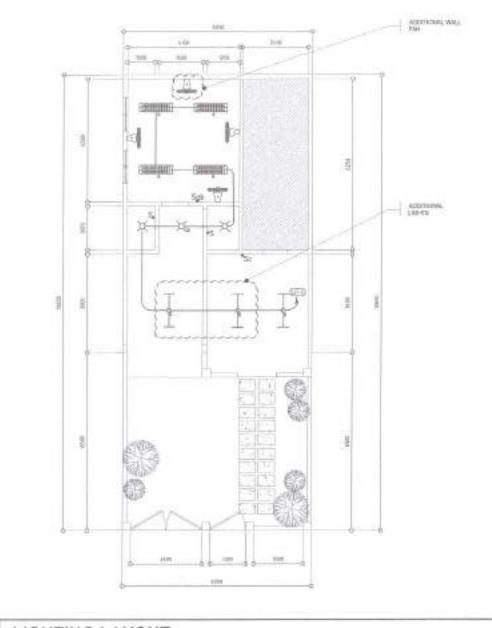


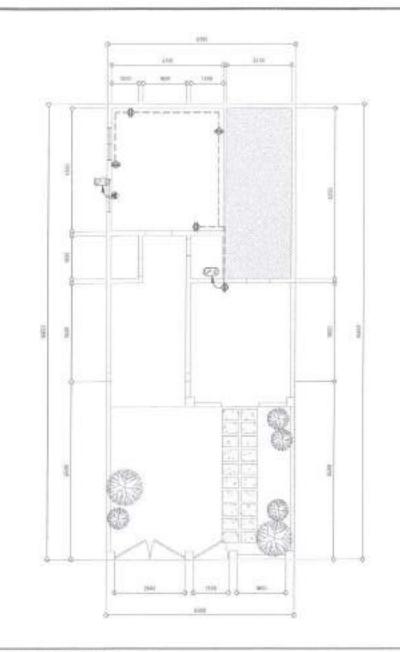
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DIC. CEYTER BEFFERRO DESIGNATION

DENEMAL NOTES REPART BURGOOD REPARTS HOW MA. JOSEFINA G. BELMONTE

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LIGHTING LAYOUT

POWER LAYOUT SCALE 1:100M

SCALE 1:100M. энттио:

Republika ng Pilipiner Lungsod ng Queson CITY ENGINEERING DEPARTMENT

PROJECTIVES 001E1 1001E1 PROPOSED REHABILITATION OF SITIO URLINA DAY CARE CENTER arasam A LOCATION.
BRID' PARTMER DISTRICTS, CARDINGTY. NOVEMBER NO.



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SHEET CONTINUE

# 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 REHABILITATION OF DAY CARE CENTER AT DISTRICT 5 / AREA VIII

(CLUSTER 1)

LOCATION : BARANGAY GREATER LAGRO, FAIRVIEW & NORTH FAIRVIEW,

**DISTRICT 5, QUEZON CITY** 

PROJECT NO. : 22 - 00030

**DURATION**: Ninety (90) Calendar Days

#### **BREAKDOWN OF COST**

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST							
	GREATER LAGRO I AND GREATER LAGRO II DAYCARE CENTER, BRGY. GREATER LAGRO											
I	GENERAL REQUIREMENTS											
II	DAYCARE CENTER I											
III	DAYCARE CENTER II											
	NAMAPA DAYCARE CENTER, BRGY. NORTH FAI	RVIEW										
I	GENERAL REQUIREMENTS											
II	SITE WORKS											
III	CIVIL / STRUCTURAL WORKS											
IV	ARCHITECTURAL WORKS											
V	SANITARY / PLUMBING WORKS											
VI	ELECTRICAL WORKS											
VII	MECHANICAL WORKS											
	AVON DAYCARE CENTER, BRGY. NORTH FAIRV	IEW										
I	GENERAL REQUIREMENTS											
II	SITE WORKS											
III	CIVIL / STRUCTURAL WORKS											
IV	ARCHITECTURAL WORKS											
V	SANITARY / PLUMBING WORKS											
VI	ELECTRICAL WORKS											
VII	UTILITY AND ANCILLARY WORKS											
	MMTC DAYCARE CENTER, BRGY. FAIRVIEW											
I	GENERAL REQUIREMENTS											
II	SITE WORKS											
III	CIVIL / STRUCTURAL WORKS											

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
	SITIO URLINA DAYCARE CENTER, BRGY. FAIRVI	EW			
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
VII	UTILITY AND ANCILLARY WORKS				_
			-	TOTAL COST	P

LUMP SUM BID IN WORDS	·:		
_			
Contractor :			

Bid Form Page 3 of 3

## (Building Construction/Rehabilitation Project)

PROJECT\_TITLE: PROPOSED REHABILITATION OF GREATER LAGRO 1 AND GREATER LAGRO II

**DAY CARE CENTER** 

LOCATION: BARANGAY GREATER LAGRO, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00030

#### **SCOPE OF WORK:**

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

#### **II DAY CARE CENTER 1**

- A Site Works include removal works, cleaning and clearing for painting preparation and termite treatment.
- B Civil/ Structural Works include moisture protection and metal works.
- C Architectural Works include floor finishes, wall finishes, ceiling works, installation of doors, painting works, fabricated materials and letterings.
- D Plumbing Works including installation of roughing-ins, fixtures and accessories.
- E Electrical Works include installation roughing-ins, wirings, devices, fixtures, panelboard and accessories.

#### **III DAY CARE CENTER 2**

- A Site Works include removal works, termite protection and cleaning and clearing for painting preparation.
- B Civil/ Structural Works include moisture protection, metal works and roofing works.
- C Architectural Works include floor finishes, wall finishes, installation of doors, ceiling works, painting works, fabrication of materials and letterings.
- D Plumbing Works including installation of roughing-ins, equipment, fixtures and accessories.
- E Electrical Works include installation roughing-Ins, wirings, devices, fixtures, panelboard and accessories.
- IV All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	L	INIT COST		TOTAL COST
I	GENERAL REQUIREMENTS						
	Billboard	1	unit	₽		₱	
	Clearing, Hauling and Disposal of Construction Materials and Debris	17	t.l.				
	Construction Safety and Health	1	unit				
	Scaffolding (Rental)	140	sq.m.				
	Temporary Electrical and Water Facilities	90	day				
	Temporary Enclosure Around the Construction Area (h=2.4)	14	l.m.				
					Direct Cost I	₱	
II	DAY CARE CENTER 1						
Α	Site Works						
	Removal Works						
	Removal of Ceiling	90	sq.m.	₽		₱	
	Removal of Tiles	118	sq.m.				
	Removal of Doors	7	set				
	Removal of Kitchen Sink	1	set				

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Removal of Lavatory	2	set		
	Removal of Urinal	1	set		
	Removal of Water Closet	2	set		
	Chipping of Concrete (Plumbing and Electrical Works)	7	sq.m.		
	Clearing and Cleaning for Painting Preparation	280	sq.m.		
				Subtotal	₱
	Termite Treatment	5	gal	₱	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost A	₽
				Labor Cost A	
				Direct Cost A	₱
В	Civil/ Structural Works				
	Moisture Protection				
	Cementitious Capillary Type	12	sq.m.	₱	₱
	Restoration of Concrete (Plumbing and Electrical Works)	6	sq.m.		
	Metal Works				
	Gate 1				
	50mm x 75mm x 4mm Tubular Pipe	186	kg		
	32mm x 32mm x 4mm Tubular Pipe	210	kg		
	Cylindrical Hinges, Heavy Duty	6	piece		
	38mmØ Barrel Bolt	1	set		
	38mmØ Foot Bolt	1	set		
	Miscellaneous				
	Acetylene Tank (Refill)	1	tank		
	Assorted Metal Drill Bit	5	piece		
	Cut Off Blade	2	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	1	tank		
	Welding Rod	1	box		
				Materials Cost B	₱
				Labor Cost B	
				Direct Cost B	₱
С	Architectural Works				
	Floor Finishes				
	Floor Topping For Preparation of Tiles Works	95	sq.m.	₱	₱
	400mm x 400mm Non-Skid Homogeneous Floor Tiles	7	sq.m.		
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	88	sq.m.		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Wall Finishes				
	400mm x 400mm Homogenous Wall Tiles	31	sq.m.		
	Ceiling Works				
	6mm Thk Fiber Cement Board Including Metal	95	sq.m.		
	Fabricated Materials				
	Hanging Cabinet	4	sq.m.		
	Painting Works				
	Epoxy Enamel Paint Finish (Steel Surfaces)	14	sq.m.		
	Elastomeric Paint Finish (Exterior Walls)	121	sq.m.		
	Flat Latex Paint Finish				
	Interior Walls	173	sq.m.		
	Ceiling	95	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (2.75m x 2.1m) Two Leaf Glass Door on				
	Aluminum Frame	1	set	₽	₱
	D2 - (1.0m x 2.10m) Panel Door with Transom	2	set		
	Window				
	D3 - (0.9m x 2.10m) Panel Door D4 - (0.60m x 2.10m) PVC Door with Louver	1	set		
	,	2	set		
	D5 - (0.60m x 1.60m) Flush Door	1	set		
-	Door Jambs	2	201		
	D2 - Panel Door Wooden Jamb	2	set		
	D3 - Panel Door Wooden Jamb	1	set		
	D5 - Flush Door Wooden Jamb	2	set		
	Hardwares and Accessories	40	1		
	Door Hinges, Heavy Duty, Stainless	18	set		
	Door Knob, Lever Type, Stainless	6	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Latteria				
$\vdash$	Letterings				
	200mm Stainless Steel Lettering	14	set	₽	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₽
				Materials Cost C	₱
				Labor Cost C	
				Direct Cost C	₽
D	Sanitary/ Plumbing Works				

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	3	piece	₽	₽
	75 mm Ø, PVC Pipe with Hub	3	piece		
	100mm Ø, PVC Pipe with Hub	5	piece		
	50mm Ø, P-Trap	8	piece		
	75mm Ø, P-Trap	2	piece		
	50mm Ø, 1/8 Bend	34	piece		
	75mm Ø, 1/8 Bend	9	piece		
	75mm Ø, 1/4 Bend	2	piece		
	75mm Ø x 75mm Ø, Tee	2	piece		
	100mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 50mm Ø, Wye	8	piece		
	100mm Ø x 75mm Ø, Wye	2	piece		
	100mm Ø x 100mm Ø, Wye	1	piece		
	100mm Ø, Cleanout with Adapter	3	piece		
	50mm Ø No Hub Coupling	2	piece		
	Waterline System		•		
	Roughing-Ins				
	20mm Ø, Pipe PPR	5	piece		
	20mm Ø, Elbow	18	piece		
	20mm Ø, Coupling	5	piece		
	20mm Ø, Tee Equal	10	piece		
	20mm Ø, Female Threaded, Tee	8	piece		
	Valves and Appurtenances		μ.σσσ		
	20mm Ø Gate Valve, PPR	1	piece		
	Fixtures	•	μ.σσσ		
	Bidet with Complete Accessories, Stainless (Water	2	set		
	Floor Drain, 100mm x 100mm	2	set		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever-Type, Stainless, Heavy-Duty	-			
	(Water Efficient)	9	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy Duty (Water Efficient)	1	set		
	Lavatory, Wall Hung, Kiddy	2	set		
	Lavatory Faucet Lever Type, Stainless Steel Heavy Duty (Water Efficient)	2	set		
	Urinal, Flush Valve-Type, Kiddy (Water Efficient)	1	set		
	Water Closet, Tank Type w/ Accessories, Kiddy (Water Efficient)	2	set		
	Accessories				
	Angle Valve, Single Way, Stainless	7	piece		
	Angle Valve, Two Way, Stainless	2	piece		
	Flexible Hose, Stainless Steel	9	piece		
	Miscellaneous & Consumables	-	1.220		
			L	I	

E E	400cc Solvent Cement All-Around Sealant Hacksaw Blade Teflon Tape Waste Cloth	4 4 2	can can		
E	Hacksaw Blade Teflon Tape		can	1	
E	Teflon Tape	2			
E			piece		
E	Waste Cloth	3	rolls		
E		2	kgs		
E				Materials Cost D	₽
E				Labor Cost D	
E				Direct Cost D	₽
	Electrical Works				
	Roughing-ins				
	20mmØ PVC Pipe	12	piece	₽	   ₱
	25mmØ PVC Pipe	15	piece	F	Г
	20mmØ PVC Flexible Hose	60	I.m.		
	Fittings and Accessories	60	1.111.		
	20mmØ PVC Adaptor	20	ninon		
	20mmØ PVC Adaptor		piece		
	G G	20	piece		
	25mmØ PVC Adaptor	10	piece	<u> </u>	
	25mmØ PVC Locknut & Bushing	10	piece		
	50mm x 100mm PVC Utility Box	10	piece		
	100mm x 100mm PVC Junction Box with cover	25	piece		
	Wires and Cables		<u> </u>		
	3.5mm² THHN Wire	210	l.m.		
	5.5mm² THHN Wire	60	l.m.		
	Lighting Fixtures (Energy Efficient)				
	150mm Ø Round Recessed Pinlight (case)	4	piece		
	18W LED Bulb	5	piece		
	300mm x 1200mm, 1 x 18w LED, Troffer Type, w/complete accessories	3	piece		
	600mm x 1200mm, 2 x 18w LED, Troffer Type, w/ complete accessories	7	piece		
	E27 Receptacle	1	piece		
	T8, 18w LED Tube light, Box type	1	piece		
	Wall Mounted Lighting	2	piece		
	Panelboard				
	LPP			-	
	Branch: 1-30AT, 2P, 230V, Bolt-On	1	piece		
	Wiring Devices and Other Fixtures		<u> </u>		
	Aircon Outlet, Multipurpose outlet 250V/20A	1	set		
	Ground Fault Circuit Interrupter Outlet 250V/20A	2	set		
	Orbit Fan with Selector Switch	3	set		
	Outlet with Grounding, Two Gang	15	set		
		5	set		
	Switch w/ plate & cover. Single Gang		1		
	Switch w/ plate & cover, Single Gang Switch w/ plate & cover, Two Gang	1	set		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Miscellaneous & Consumables				
	400cc Solvent Cement	2	can		
	Electrical Tape	8	roll		
	Hacksaw Blade	2	piece		
	Torch with Butane	1	set		
				Materials Cost E	₽
				Labor Cost E	
				Direct Cost E	₽
				Materials Cost II	₱
				Labor Cost II	
				Direct Cost II	₽
III	DAY CARE CENTER 2				
A	Site Works				
	Removal Works				
	Removal of Ceiling	93	sq.m.	₽	₽
	Removal of Doors	4	set		
	Removal of Lavatory	2	set		
	Removal of Tiles	121	sq.m.		
	Removal of Railings	2	sq.m.		
	Removal of Roofing	151	sq.m.		
	Removal of Urinal	1	set		
	Removal of Water Closet	2	set		
	Chipping of Floor (Plumbing and Electrical Works)		361		
	Chipping of Floor (Flumbing and Electrical Works)	4	sq.m.		
	Clearing and Cleaning for Painting Preparation	367	sq.m.		
				Subtotal	₽
	Termite Treatment	5	gal	₱ 1,500.00	₽
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Vaterials Cost A	₽
				Labor Cost A	
				Direct Cost A	₽
В	Civil/ Structural Works				
	Moisture Protection				
	Cementitious Capillary-Type Waterproofing	12	sq.m.	₱	₱
	Restoration of Concrete (Plumbing and Electrical	4	sq.m.		
	Metal Works				
	Gate 1				
	50mm x 75mm x 4mm Tubular Bar	153	kg		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	32mm x 32mm x 4mm Tubular Bar	173	kg		
	Cylindrical Hinges, Heavy Duty	3	piece		
	38mmØ Barrel Bolt	1	set		
	38mmØ Foot Bolt	1	set		
	Gate 2				
	100mmØ G.I. Pipe, sch. 40	231	kg		
	12mm x 12mm Square Bar	57	kg		
	Cylindrical Hinges, Heavy Duty	3	piece		
	38mmØ Barrel Bolt	1	set		
	Miscellaneous				
	Acetylene Tank (Refill)	1	tank		
	Assorted Metal Drill Bit	5	piece		
	Cut Off Blade	2	piece		
	Grinding Disc for Metal	5	piece		
	Oxygen Tank (Refill)	1	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-painted G.I. Rib Type Roofing	159	sq.m.		
	Pre-painted G.I. End Flashing	52	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	52	l.m.		
	6mm Thk One-sided Aluminum Foil Thermal Insulation	159	sq.m.		
	Tekscrew	709	piece		
	Blind Rivets	261	piece		
	All Purpose Sealant	4	tube		
				Materials Cost B	₽
				Labor Cost B	
				Direct Cost B	₽
С	Architectural Works				
	Floor Finishes				
	400mm x 400mm Non-Skid Homogeneous Fall Tiles	7	sq.m.	₽	₽
	600mm x 600mm Non-Skid Homogeneous Floor Tiles	91	sq.m.		
	Floor Topping For Preparation of Tiles Works	98	sq.m.		
	Wall Finishes				
	400mm x 400mm Homogenous Wall Tiles	31	sq.m.		
	Ceiling Finishes				
	6mm Thk Fiber Cement Board Including Metal Framing	97	sq.m.		
	Fabricated Materials				
	Hanging Cabinet	5	sq.m.		
	Painting Works				
	Epoxy Enamel Paint Finish (Steel Surfaces)	20	sq.m.		
	Elastomeric Paint Finish (Exterior Walls)	121	sq.m.		
	Flat Latex Paint Finish				

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Interior Walls	265	sq.m.		
	Ceiling	97	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors				
	D1 - (1.0m x 2.10m) Panel Door with Transom	1	set	₱	₱
	D2 - (0.9m x 2.10m) Panel Door	1	set		
	D3 - (0.60m x 2.10m) PVC Door with Louver	2	set		
	Door Jambs				
	D1 - Panel Door Wooden Jamb	1	set		
	D2 - Panel Door Wooden Jamb	1	set		
	Hardwares and Accessories				
	Door Hinges, Heavy Duty, Stainless	12	set		
	Door Knob, Lever Type, Stainless	4	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Letterings				
	200mm Stainless Steel Lettering	15	set	₱	₱
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Vaterials Cost C	₱
				Labor Cost C	
				Direct Cost C	₽
D	Sanitary/ Plumbing Works				
	Sewer Line / Storm Drainage System				
	Roughing-Ins				
	50 mm Ø, PVC Pipe with Hub	3	piece	₽	₱
	75 mm Ø, PVC Pipe with Hub	4	piece		
	100mm Ø, PVC Pipe with Hub	2	piece		
	50mm Ø, P-Trap	5	piece		
	75mm Ø, P-Trap	2	piece		
	50mm Ø, 1/8 Bend	27	piece		
	75mm Ø, 1/8 Bend	6	piece		
	75mm Ø, 1/4 Bend	3	piece		
	75mm Ø x 75mm Ø, Tee	1	piece		
	100mm Ø x 75mm Ø, Tee	3	piece		
	100mm Ø x 50mm Ø, Wye	6	piece		
	100mm Ø x 75mm Ø, Wye	2	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	100mm Ø x100mm Ø, Wye	1	piece		
	50mm Ø, Cleanout with Adapter	1	piece		
	100mm Ø, Cleanout with Adapter	2	piece		
	50mm Ø No Hub Coupling	2	piece		
	Waterline System				
	Roughing-Ins				
	20mm Ø, Pipe PPR	3	piece		
	20mm Ø, Elbow	16	piece		
	20mm Ø, Coupling	3	piece		
	20mm Ø, Tee Equal	11	piece		
	20mm Ø, Female Threaded, Tee	6	piece		
	Fixtures				
	Floor Drain,100mm x 100mm	2	set		
	Bidet with Complete Accessories, Stainless (Water Efficient)	2	set		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever-Type, Stainless, Heavy-Duty (Water Efficient)	5	set		
	Lavatory, Wall Hung, Kiddy	2	set		
	Lavatory Faucet Lever Type, Stainless Steel Heavy Duty	2	set		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Kitchen Sink Faucet, Stainless, Heavy Duty (Water Efficient)	1	set		
	Water Closet, Tank Type w/ Accessories (Water	2	set		
	Urinal, Flush Valve-Type, Kiddy (Water Efficient)	1	set		
	Accessories				
	Angle Valve, Single Way, Stainless	4	piece		
	Angle Valve, Two Way, Stainless	2	piece		
	Flexible Hose, Stainless Steel	6	piece		
	Miscellaneous & Consumables				
	400cc Solvent Cement	4	can		
	All-Around Sealant	4	can		
	Hacksaw Blade	2	piece		
	Teflon Tape	3	roll		
	Waste Cloth	2	kg		
				Materials Cost D	₽
				Labor Cost D	
				Direct Cost D	₽
Е	Electrical Works				
	Roughing-ins				
	20mmØ PVC Pipe	15	piece	₱	₽
	25mmØ PVC Pipe	20	piece		
	20mmØ PVC Flexible Hose	60	l.m.		
	Fittings and Accessories				
	20mmØ PVC Adaptor	40	piece		

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	20mmØ PVC Locknut & Bushing	40	piece		
	25mmØ PVC Adaptor	10	piece		
	25mmØ PVC Locknut & Bushing	10	piece		
	50mm x 100mm PVC Utility Box	10	piece		
	100mm x 100mm PVC Junction Box with cover	25	piece		
	Wires and Cables				
	3.5mm² THHN Wire	250	l.m.		
	5.5mm² THHN Wire	80	l.m.		
	Lighting Fixtures (Energy Efficient)				
	150mm Ø Round Recessed Pinlight (case)	2	piece		
	18W LED Bulb	2	piece		
	300mm x 1200mm, 1 x 18w LED, Troffer Type, w/complete accessories	5	piece		
	600mm x 1200mm, 2 x 18w LED, Troffer Type, w/complete accessories	7	piece		
	Panelboard				
	LPP				
	Branch: 1-30AT, 2P, 230V, Bolt-On	1	piece		
	Wiring Devices and Other Fixtures				
	Aircon Outlet, Multipurpose outlet 250V/20A	1	set		
	Ground Fault Circuit Interrupter Outlet 250V/20A	2	set		
	Orbit Fan with Selector Switch	3	set		
	Outlet with Grounding, Two Gang	15	set		
	Switch w/ plate & cover, Single Gang	4	set		
	Switch w/ plate & cover, Two Gang	1	set		
	Three-way Switch w/ plate & cover, Two Gang	1	set		
	Miscellaneous & Consumables				
	400cc Solvent Cement	2	can		
	Electrical Tape	8	roll		
	Hacksaw Blade	2	piece		
	Torch with Butane	1	set		
				Materials Cost E	₽
				Labor Cost E	
				Direct Cost E	₽
				Materials Cost III	Ð
				Labor Cost III	F
				Direct Cost III	₽
				Direct Cost III	r

## SUMMARY

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST

ITEM NO.	WORK DESCRIPTION AND SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS		<u>-</u>		₽
П	DAY CARE CENTER 1				
III	DAY CARE CENTER 2				
NOT	E:				
			TC	OTAL DIRECT COST	₽
•	Strictly enforce health protocols relative to the latest			ad, Contingencies and	
	applicable DPWH memorandum	יו	viiscellaneo	ous and Consumables Expenses (OCM)	
				Profit	
				VAT	
			TOTAL	ESTIMATED COST	₽

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF AVON DAY CARE CENTER

LOCATION : BARANGAY NORTH FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00030

#### **SCOPE OF WORK:**

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

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₱	₽
	Clearing, Hauling and Disposal of Construction Materials and Debris	3	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	39	sq.m.		
	Temporary Enclosure Around the Construction Area (h=2.4m)	25	sq.m.		
				DIRECT COST I	₽
II	SITE WORKS				
	Removal Works				
	Removal of Countertop	3	sq.m.	₽	₽
	Removal of Kiddy Countertop	2	sq.m.		
	Removal of Hanging Cabinet	1	sq.m.		
	Removal of Roofing and Accessories	55	sq.m.		
	Removal of Ceiling	69	sq.m.		
	Removal of Gate and Fence	23	sq.m.		
	Removal of Fence Roof and Framing	34	sq.m.		
	Removal of Windows	16	sq.m.		
	Removal of Doors	4	set		
	Removal of Floor and Wall Tiles	63	sq.m.		
	Removal of Lavatory	1	unit		
	Removal of Water Closet	1	unit		
	Chipping of Floor and Wall (Electrical / Plumbing Works)	13	sq.m.		
	Cleaning and Clearing for Painting Preparation	119	sq.m.		
	Layout and Staking	2	sq.m.		

NO	Excavation for Structures				TOTAL COST
	Excavation for Structures	1	cu.m.		
				Subtotal	₽
	Gravel Bedding	1	cu.m.	₽	₽
				Material Cost	₽
				Labor Cost	
				Subtotal	₽
	Backfill and Compaction	1	cu.m.	₽	₱
				Subtotal	₱
			ı	MATERIAL COST II	₱
				LABOR COST II	
				DIRECT COST II	₽
III	CIVIL / STRUCTURAL WORKS				
	Concrete Works				
	On-Site Mx Concrete, 21Mpa, 3/4" Gravel @28 Days				
	Stairs	1	cu.m.	₱	₽
	Wall Footing	1	cu.m.		
	Reinforcing Steel Bar				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire #	16			
	10mmØ Wall Footing	12	kg		
	10mmØ Stairs	47	kg		
	Formworks				
	Wall Footing	3	sq.m.		
	Stairs	3	sq.m.		
	Masonry Works				
	Restoration of Concrete (Electrical / Plumbing Works)	13	sq.m.		
	150mm CHB Wall Laying, including Mortar, Reinforcing				
	and Two-Face Plastering (Window Enclosure)	4	sq.m.		
	Metal Works				
	Gate				
	25mm x 25mm x 2mm Tubular Bar	55	kg		
	50mm x 50mm x 2mm Tubular Bar	57	kg		
	100mmØ G.I. Pipe	88	kg		
	38mmØ Foot Bolt	1	set		
	38mmØ Barrel Bolt	1	set		
	Cylindrical Hinge, Heavy Duty	6	piece		
	Fence				
	25mm x 25mm Square Bar	1,762	kg		
	50mm x 50mm x 2mm Tubular Bar	95	kg		
	100mmØ G.I. Pipe	263	kg		
	25mm x 4mm Flat Bar	41	kg		
	1.20m x 2.40m x 6.25mm Mild Steel Plate	149	kg		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	6mm thk. Base Plate	25	kg		
	10mmØ Expansion Bolt	32	piece		
	Rafter				
	50mm x 100mm x 1.2mm Metal C-Purlin	129	kg		
	50mm x 150mm x 6mm Tubular Bar	335	kg		
	Base Plate	18	kg		
	18mmØ Dynabolt	16	piece		
	Window Grilles				
	25mm Square Bar	265	kg		
	Miscellaneous & Consumables				
	Acetylene Tank (Refill)	5	tank		
	Cut Off Blade	10	piece		
	Grinding Disc for Metal	10	piece		
	Oxygen Tank (Refill)	8	tank		
	Welding Rod	4	box		
	Roofing Works				
	Day Care Center Classroom				
	Pre-Painted Rib-type G.I. Roofing	70	sq.m.		
	6mm thk. One-Sided Aluminum Foil Thermal Insulation	70	sq.m.		
	Pre-Painted G.I. Flashing	15	l.m.		
	Pre-Painted G.I. Ridge Roll	11	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	22	l.m.		
	Silicon Sealant	7	tube		
	Tekscrew	322	piece		
	Blind Rivets	48	piece		
	Fence	.0	Proce		
	Pre-Painted Rib-type G.I. Roofing	40	sq.m.		
	6mm thk. One-Sided Aluminum Foil Thermal Insulation	40	sq.m.		
	Pre-Painted G.I. Flashing	18	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	9	l.m.		
	Silicon Sealant	4	tube		
	Tekscrew	168	piece		
	Blind Rivets	21	piece		
	Dillid Nivets	21		I IATERIAL COST III	₽
				LABOR COST III	•
				DIRECT COST III	₽
				DIRECT COST III	•
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	Floor Topping for Preparation of Tiles	55	sq.m.	₱	₱
	400mm x 400mm Non-Skid Homogeneous Floor Tiles (Toilet)	3	sq.m.		
	600mm x 600mm Non-Skid Homogeneous Floor Tiles (Classroom)	52	sq.m.		
	Wall Finishes				
	TTAIL I IIIOITO	<u> </u>	1		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	400mm x 400mm Non-Skid Homogeneous Wall Tiles (Toilet)	13	sq.m.		
	Ceiling Finishes				
	6mm thk. Fiber Cement Board including Metal Framing	69	sq.m.		
				Material Cost	₱
				Labor Cost	
				Subtotal	₽
	Installation of Doors				
	Doors				
	D1-(2.10m x 0.90m) Wooden Panel Door	1	set	₱	₱
	D2-(2.10m x 1.00m) Wooden Panel Door	1	set		
	D3-(2.10m x 0.90m) Flush Door	1	set		
	D4-(2.10m x 0.70m) PVC Door with Louver	1	set		
	Door Jamb				
	D1-(2.10m x 0.90m) Wooden Panel Door	1	set		
	D2-(2.10m x 1.00m) Wooden Panel Door	1	set		
	D3-(2.10m x 0.90m) Flush Door	1	set		
	Hardware and Accessories				
	Door Hinge, Heavy Duty, Stainless	12	piece		
	Door Knob, Lever Type, Stainless	4	piece		
	Installation of Windows				
	W1-(3.10m x 1.50m) Aluminum Framed Powder Coated Casement Sliding Window with 6mm thk. Clear Glass	1	set		
	W2-(3.20m x 1.50m) Aluminum Framed Powder Coated Casement Sliding Window with 6mm thk. Clear Glass	1	set		
	W3-(1.50m x 1.50m) Aluminum Framed Powder Coated Casement Sliding Window with 6mm thk. Clear Glass	1	set		
	W4-(0.55m x 0.55m) Aluminum Framed Powder Coated Casement Awning Window with 6mm thk. Clear Glass	1	set		
				Material Cost	₽
				Labor Cost	
				Subtotal	₽
	Painting Works				
	Elastomeric Paint (Exterior Wall)	112	sq.m.	₽	₽
	Flat Latex Paint Finish				
	Interior Wall	88	sq.m.		
	Drywall	32	sq.m.		
	Ceiling	69	sq.m.		
	Epoxy Enamel Paint Finish (Steel Members)	106	sq.m.		
	Fabricated Materials				
	Kiddy Countertop	5	l.m.		
	Hanging Cabinet	2	sq.m.		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Countertop with Aluminum Cover and Sink	4	l.m.		
	Letterings				
	200mm Stainless Steel Lettering	17	set		
	"AVON DAY CARE CENTER"				
				Material Cost	₽
				Labor Cost	
				Subtotal	₱
	Cleaning and Re-touching of Painting with Simple Design	25	sq.m	₱	₽
				Subtotal	₽
			M	ATERIAL COST IV	₽
				LABOR COST IV	
				DIRECT COST IV	₱
V	SANITARY / PLUMBING WORKS				
	Sewer Line / Storm Drainage System				
	Roughing-Ins			_	В.
	50 mm Ø, PVC Pipe with Hub	2	piece	₽	₽
	75 mm Ø, PVC Pipe with Hub	5	piece		
	100 mm Ø, PVC Pipe with Hub	7	piece		
	150 mm Ø, PVC Pipe with Hub	4	piece		
	50mm Ø, P-Trap	4	piece		
	75mm Ø, P-Trap	1	piece		
	50mm Ø, 1/8 Bend	17	piece		
	75mm Ø, 1/8 Bend	5	piece		
	100mm Ø, 1/8 Bend	4	piece		
	75mm Ø, 1/4 Bend	5	piece piece		
	150mm Ø, 1/4 Bend	3	piece		
	150mm Ø x 100mm Ø, Reducer	2	piece		
	75mm Ø x 75mm Ø, Tee	5			
	100mm Ø x 75mm Ø, Tee 100mm Ø x 50mm Ø, Wye	5 5	piece piece		
	100mm Ø x 50mm Ø, wye 100mm Ø x 75mm Ø, Wye	2	piece		
	100mm Ø x 100mm Ø, Wye	2	piece		
	150mm Ø x 100mm Ø, Wye	1	piece		
	100mm Ø, Cleanout with Adapter	6	piece		
	Waterline System	0	P1000		
	Roughing-Ins				
	20mm Ø, PPR Pipe	5	piece		
	20mm Ø, Elbow	12	piece		
	20mm Ø, Coupling	5	piece		
	20mm Ø, Tee Equal	1	piece		
	20mm Ø, Female Threaded, Tee	7	piece		
	20mm Ø, Female Adapter	5	piece		
	25mm Ø, Union Patente	1	piece		
	Zonini D, Onion i atome	'	P.000		

TEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Valves and Appurtenances				
	20mm Ø Gate Valve, PPR	1	piece		
	Fixtures				
	Bidet with Complete Accessories, Stainless (Water Efficient)	1	set		
	Floor Drain, 100mm x 100mm, Stainless	5	piece		
	Grease Trap, 5GPM, Stainless	1	set		
	Hose Bibb, Lever-Type, Stainless, Heavy Duty (Water Efficient)	7	piece		
	Kitchen Faucet Lever Type, Stainless (Water Efficient)	1	piece		
	Kitchen Sink, Single Tub, Stainless	1	set		
	Lavatory, Wall Hung, Kiddy	1	set		
	Lavatory Faucet Lever Type, Stainless (Water Efficient)	1	piece		
	Water Closet, Tank Type with Accessories, Kiddy (Water Efficient)	1	set		
_	Accessories		nias -		
4	Angle Valve, Single Way, Stainless	2	piece		
	Angle Valve, Two Way, Stainless	1	piece		
	Flexible Hose, Stainless	3	piece		
-	Miscellaneous & Consumables				
	400cc Solvent Cement	4	can		
	All-Around Sealant	1	can		
	Hacksaw Blade	2	piece 		
	Teflon Tape	3	roll		
	Waste Cloth	1	kg		
			N	MATERIAL COST V	₽
				LABOR COST V	
				DIRECT COST V	₽
1	ELECTRICAL WORKS				
'	Lighting and Power System				
	Roughing-ins				
	25mmØ RSC Pipe	2	piece	₽	₽
-	20mmØ PVC Pipe	56	piece		
	25mmØ PVC Pipe	7	piece		
-	32mmØ PVC Pipe	8	piece		
+	15mmØ Flexible PVC Tube	25	l.m.		
	50mm x 100mm PVC Utility Box	13	piece		
	100mm x 100mm PVC Junction Box with cover	13	piece		
$\dashv$	25mmØ RSC Locknut and Bushing	4	pair		
	20mmØ PVC Adaptor	104	piece		
1	25mmØ PVC Adaptor	6	piece		
	32mmØ PVC Adaptor	4	piece		
	20mmØ PVC Elbow	25	piece		
		>	<u> </u>	1	
	25mmØ PVC Elbow	3	piece		

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
NO	20mmØ PVC Locknut and Bushing	104	pair		
	25mmØ PVC Locknut and Bushing	6	pair		
	32mmØ PVC Locknut and Bushing	4	pair		
	25mmØ Weatherproof Entrance Cap, Diecast	1	pair		
	Wires and Cables				
	3.5mm² THHN Wire	330	l.m.		
	5.5mm² THHN Wire	40	l.m.		
	14mm² THHN Wire	60	l.m.		
	2.0mm² TW Wire (Green)	2	roll		
	8.0mm² THW Wire (Green)	30	l.m.		
	Lighting Fixtures				
	14w LED Bulb	2	piece		
	1 x 18 T8 LED Tube in Box Type Lighting Fixture	4	unit		
	2 x 18 LED,600mmx1200mm Troffer Fixture	5	unit		
	100mmØ Plastic Lighting Receptacle	2	unit		
	Wiring Devices				
	Orbit Fan with Selector Switch	2	unit		
	Outlet with Grounding , Two-gang	5	piece		
	Outlet with Grounding , ACU Heavy Duty	1	piece		
	Switch with Plate and Cover, One-Gang	3	piece		
	Switch with Plate and Cover, Two-Gang	1	piece		
	Switch with Plate and Cover, Two-Gang  Switch with Plate and Cover, Three Gang	1	piece		
	Pipe Hangers & Supports	•	p.000		
	Horizontal Layout of Pipe	30	l.m.		
	Vertical Layout of Pipe	6	l.m.		
	Miscellaneous & Consumables				
	400cc Solvent Cement	8	can		
	Electrical Tape	25	roll		
	GI Tie Wire, Ga. 16 (for Wire/Cable Pulling)	3	kg		
	Hacksaw Blade	5	piece		
	Masking Tape	25	roll		
	Pulling Lubricant	3	can		
	Rubber Tape	25	roll		
	Panelboard				
	LP	1	assy		
	Main: 60 AT, 100AF, 2P, 230V, Bolt-on	'	accy		
	Branches:				
	2-20AT, 2P, 230V Bolt-on				
	3-30AT, 2P, 230V, Bolt-on				
	Enclosure: NEMA 1				
	MCB	1	2001		
	Main: 60AT,100AF, 3P, 230V, MCCB	'	assy		
	Enclosure: NEMA 3R				
	ETICIOSUTE. INCIVIA SIC		B.4	ATEDIAL COSTA	₽
			IV	LABOR COST VI	F
					B
			1	DIRECT COST VI	₽

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				_	
VII	UTILITY AND ANCILLARY WORKS				
	Septic Tank	10	cu.m.	₽	₽
	Area Drain / Catch Basin	1	unit		
				DIRECT COST VII	₱

# SUMMARY

ITEM NO.	WORK DESCRIPTION & SO	TOTAL COST	
                	GENERAL REQUIREMENTS SITE WORKS CIVIL / STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY / PLUMBING WORKS ELECTRICAL WORKS UTILITY AND ANCILLARY WORKS		₽
	Overhead, Conti ly enforce Health Protocols relative to the applicable DPWH Memorandum	TOTAL DIRECT COST ngencies and Miscellaneous Expenses (OCM) Profit VAT  TOTAL ESTIMATED COST	

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF MMTC DAY CARE CENTER

LOCATION : BARANGAY NORTH FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00030

## **SCOPE OF WORKS:**

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.
- III. Civil/Structural Works include masonry works, moisture protection, metal works and roofing works
- IV. Architectural Works includes installation of floor, wall and ceiling finishes, installation of doors and windows, fabricated materials, painting works and stainless letterings.
- V. Sanitary/Plumbing Works include installation of roughing-ins, equipment, fixtures and accessories.
- VI. Electrical Works include installation of devices and fixtures.
- 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
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₱	₱
	Cleaning, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	79	sq.m.		
	Temporary Enclosure Around the Construction Area (h=2.4m)	32	l.m.		
				DIRECT COST I	P
II	SITE WORKS				
	Removal / Demolition of Existing Structure				
	Removal of Tiles	79	sq.m.	₱	₱
	Removal of Ceiling	96	sq.m.		
	Removal of Roof	95	sq.m.		
	Removal of Cabinet	2	sq.m.		
	Removal of Existing Window	11	sq.m.		
	Removal of Existing Door and Door Jambs	5	set		
	Removal of Existing Water Closet	2	unit		
	Removal of Existing Lavatory	1	unit		
	Removal of Existing Floor Drain	4	unit		
	Removal of Existing Kitchen Sink	2	unit		
	Chipping of Concrete (Sanitary/Plumbing Works)	1	sq.m.		
	Cleaning and Clearing for Painting Preparation	85	sq.m.		
				DIRECT COST II	₽
III	CIVIL WORKS / STRUCTURAL WORKS				

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	8	sq.m	₽	₽
	Restoration of Concrete Floor ( Sanitary/Plumbing Works )	1	sq.m.		
	Plastering of Door Opening	2	sq.m.		
	Moisture Protection				
	Cementitious Capillary Type Waterproofing	7	sq.m.		
	Metal Works				
	Gate 1				
	50mm x 50mm x 4mm Tubular Bar	40	kg		
	25mm x 25mm x 4mm Tubular Bar	94	kg		
	38mm Ø Barrel Bolt	1	set		
	Cylindrical Hinge, Heavy Duty, Stainless	3	piece		
	Miscellaneous & Consumables				
	Acetylene Tank (Refill)	1	tank		
	Assorted Metal Drill Bit	1	piece		
	Cut Off Blade	1	piece		
	Grinding Disc for Metal	2	piece		
	Oxygen Tank (Refill)	1	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-Painted Rib-type G.I. Roofing	100	sq.m.		
	Pre-Painted G.I. End Flashing	40	l.m.		
	Pre-Painted G.I. Ridge Roll	27	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	40	l.m.		
	6mm Thk One-Sided Aluminum Foil Thermal Insulation	95	sq.m.		
	Blind Rivets	263	piece		
	Tekscrew	100	piece		
	Silicon Sealant	5	tube		
				MATERIALS COST III	₽
				LABOR COST III	
				DIRECT COST III	₽
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	300mm x 300mm Non-skid Homogeneous Tiles (Comfort Rooms)	7	sq.m.	₽	₽
	600mm x 600mm Non-skid Homogeneous Tiles (Class Room)	42	sq.m.		
	Floor Topping for Preparation of Tile Works	49	sq.m.		
	Countertop Finishes				
	300mm x 300mm Non-skid Homogeneous Tiles (Countertop)	5	sq.m.		
	Wall Finishes				
	300mm x 300mm Homogeneous Tiles (Comfort Rooms)	48	sq.m.		
	Ceiling Finishes				

M O	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	6mm thk Fiber Cement Board Ceiling including Metal Framing	63	sq.m.		
	Fabricated Materials				
	Book Shelves	3	sq.m.		
	Hanging Cabinet	2	sq.m.		
	Under Counter Cabinet	4	l.m.		
	Lettering				
	200mm Stainless Steel Lettering	17	set		
	"MMTC DAY CARE CENTER"				
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Installation of Doors				
+	Doors		1	1	
		1	204	₽	₽
	D1 - (0.90m x 2.10m) Panel Door		set	F	7
	D2 - (0.8m x 2.10m) Panel Door	1	set		
	D3 - (0.6m x 2.10m) PVC Door with Louver	2	set		
	Door Jambs				
	D1 - (0.90m x 2.10m) Panel Door	1	set		
	D2 - (0.8m x 2.10m) Panel Door	1	set		
	Hardwares and Accessories		ļ		
	Door Hinge, Heavy Duty, Stainless	12	set		
	Door Knob, Lever Type, Stainless	4	set		
	Installation of Windows				
	W1-(1.95m x 1.25m) Sliding Window on Powder Coated Aluminum Frame	2	set		
	W2-(1.70m x 1.20m) Sliding Window on Powder Coated Aluminum Frame	1	set		
	W3-(0.60m x 0.50m) Awning Window on Powder Coated Aluminum Frame	2	set		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Painting Works				
	Elastomeric Paint Finish (Exterior walls)	117	sq.m.	₽	₽
	Epoxy Enamel Paint Finish (Steel Members)	27	sq.m.		
	Latex Paint Finish				
	Ceiling	63	sq.m		
	Interior Walls	161	sq.m		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
$\perp$				MATERIALS COST IV	₽
-				LABOR COST IV	<del>  -</del>

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				DIRECT COST IV	₽
V	SANITARY / PLUMBING WORKS				
•	Waterline System				
	20mm Ø PPR Pipe	3	piece	₽	₽
	20mm Ø x 20mm Ø Tee Equal	2	piece	F	Г
	20mm Ø 90° Elbow	3	piece		
	20mm Ø Coupling	3	piece		
	Fixtures	3	piooo		
	Bidet, Heavy-Duty, Stainless Steel (Water Efficient)	2	unit		
	Floor Drain, 100mm x 100mm	4	piece		
	Grease Trap, 5GPM, Heavy Duty, with Accessories	1	set		
	Hose Bibb, Heavy Duty (Water Efficient)	7	piece		
	Kitchen Sink, Single, Tub	2	piece		
	Kitchen Sink Faucet, Lever Type (Water Efficient)	2	piece		
	Lavatory, Wall Hung, Kiddy	1	unit		
	Lavatory Faucet, Lever-type, Stainless Steel (Water Efficient)	1	piece		
	Water Closet, Tank Type, Kiddy (Water Efficient)	2	unit		
	Accessories & Hardwares	2	unit		
	Angle Valve, Single-Way, Stainless	6	piece		
	Angle Valve, Two-Way, Stainless	1	piece		
	Flexible Hose, Stainless	7			
	Miscellaneous & Consumables	,	piece		
	400cc Solvent Cement	2	can		
	All Purpose Sealant	2	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	4	roll		
	Waste Cloth	2			
	Wadio Cidii		kg	MATERIALS COST V	₽
				LABOR COST V	
				DIRECT COST V	₽
				DIRECT COST V	<b>F</b>
VI	ELECTRICAL WORKS				
	Lighting and Power System				
	Roughing-ins				
	3/8" Rectangular PVC Moulding	27	piece	₽	₽
	Fittings & Accessories				
	4" x 4" Metal Junction Box with cover	3	piece		
	4" x 2" metal utility box	3	piece		
	4" x 4" metal square box	3	piece		
	Wires and Cables				
	3.5mm² THHN Wire	1	roll		
	2.0mm² THW Wire	70	l.m.		
	Lighting Fixtures (Energy Efficient)				
	600mm x 1200mm, 2 x 18w LED, Troffer Type, w/ complete accessories, recessed type	4	set		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	T8, 18w LED Tube light	4	piece		
	18W LED bulb	4	piece		
	Wiring Devices				
	Outlet with Gounding , One-gang for Proposed Ceiling Fan	1	piece		
	Switch w/ plate & cover, Two pole	4	piece		
	Switch w/ plate & cover, Single pole	1	piece		
	Ceiling Orbit Fan with Selector Switch	3	set		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	General Purpose Construction Adhesive	5	tube		
	All around Sealant	2	tube		
	Electrical Tape	2	roll		
	Hacksaw Blade	3	piece		
	Masking Tape	2	roll		
	Rubber Tape	2	roll		
				MATERIALS COST VI	P
				LABOR COST VI	
				DIRECT COST VI	P

## SUMMARY

ITEM NO	WORK I	DESCRIPTION & SCOPE OF WORKS	TOTAL COST
	SITE WORKS CIVIL WORKS / STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY / PLUMBING WORKS		₽
	Overhead, Contingencies and Miscellaneous Expenses (OCM)  Note: Strictly enforce health protocol relative to the atest applicable DPWH Memorandum.		<del>p</del>

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF MMTC DAY CARE CENTER

LOCATION : BARANGAY NORTH FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00030

## **SCOPE OF WORKS:**

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.
- III. Civil/Structural Works include masonry works, moisture protection, metal works and roofing works
- IV. Architectural Works includes installation of floor, wall and ceiling finishes, installation of doors and windows, fabricated materials, painting works and stainless letterings.
- V. Sanitary/Plumbing Works include installation of roughing-ins, equipment, fixtures and accessories.
- VI. Electrical Works include installation of devices and fixtures.
- 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
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₱	₱
	Cleaning, Hauling and Disposal of Construction Materials and Debris	1	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	79	sq.m.		
	Temporary Enclosure Around the Construction Area (h=2.4m)	32	l.m.		
				DIRECT COST I	P
II	SITE WORKS				
	Removal / Demolition of Existing Structure				
	Removal of Tiles	79	sq.m.	₱	₱
	Removal of Ceiling	96	sq.m.		
	Removal of Roof	95	sq.m.		
	Removal of Cabinet	2	sq.m.		
	Removal of Existing Window	11	sq.m.		
	Removal of Existing Door and Door Jambs	5	set		
	Removal of Existing Water Closet	2	unit		
	Removal of Existing Lavatory	1	unit		
	Removal of Existing Floor Drain	4	unit		
	Removal of Existing Kitchen Sink	2	unit		
	Chipping of Concrete (Sanitary/Plumbing Works)	1	sq.m.		
	Cleaning and Clearing for Painting Preparation	85	sq.m.		
				DIRECT COST II	₽
III	CIVIL WORKS / STRUCTURAL WORKS				

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	8	sq.m	₽	₽
	Restoration of Concrete Floor ( Sanitary/Plumbing Works )	1	sq.m.		
	Plastering of Door Opening	2	sq.m.		
	Moisture Protection				
	Cementitious Capillary Type Waterproofing	7	sq.m.		
	Metal Works				
	Gate 1				
	50mm x 50mm x 4mm Tubular Bar	40	kg		
	25mm x 25mm x 4mm Tubular Bar	94	kg		
	38mm Ø Barrel Bolt	1	set		
	Cylindrical Hinge, Heavy Duty, Stainless	3	piece		
	Miscellaneous & Consumables				
	Acetylene Tank (Refill)	1	tank		
	Assorted Metal Drill Bit	1	piece		
	Cut Off Blade	1	piece		
	Grinding Disc for Metal	2	piece		
	Oxygen Tank (Refill)	1	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-Painted Rib-type G.I. Roofing	100	sq.m.		
	Pre-Painted G.I. End Flashing	40	l.m.		
	Pre-Painted G.I. Ridge Roll	27	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	40	l.m.		
	6mm Thk One-Sided Aluminum Foil Thermal Insulation	95	sq.m.		
	Blind Rivets	263	piece		
	Tekscrew	100	piece		
	Silicon Sealant	5	tube		
				MATERIALS COST III	₽
				LABOR COST III	
				DIRECT COST III	₽
IV	ARCHITECTURAL WORKS				
	Floor Finishes				
	300mm x 300mm Non-skid Homogeneous Tiles (Comfort Rooms)	7	sq.m.	₽	₽
	600mm x 600mm Non-skid Homogeneous Tiles (Class Room)	42	sq.m.		
	Floor Topping for Preparation of Tile Works	49	sq.m.		
	Countertop Finishes				
	300mm x 300mm Non-skid Homogeneous Tiles (Countertop)	5	sq.m.		
	Wall Finishes				
	300mm x 300mm Homogeneous Tiles (Comfort Rooms)	48	sq.m.		
	Ceiling Finishes				

M O	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	6mm thk Fiber Cement Board Ceiling including Metal Framing	63	sq.m.		
	Fabricated Materials				
	Book Shelves	3	sq.m.		
	Hanging Cabinet	2	sq.m.		
	Under Counter Cabinet	4	l.m.		
	Lettering				
	200mm Stainless Steel Lettering	17	set		
	"MMTC DAY CARE CENTER"				
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Installation of Doors				
+	Doors		1	1	
		1	204	₽	₽
	D1 - (0.90m x 2.10m) Panel Door		set	F	7
	D2 - (0.8m x 2.10m) Panel Door	1	set		
	D3 - (0.6m x 2.10m) PVC Door with Louver	2	set		
	Door Jambs				
	D1 - (0.90m x 2.10m) Panel Door	1	set		
	D2 - (0.8m x 2.10m) Panel Door	1	set		
	Hardwares and Accessories		ļ		
	Door Hinge, Heavy Duty, Stainless	12	set		
	Door Knob, Lever Type, Stainless	4	set		
	Installation of Windows				
	W1-(1.95m x 1.25m) Sliding Window on Powder Coated Aluminum Frame	2	set		
	W2-(1.70m x 1.20m) Sliding Window on Powder Coated Aluminum Frame	1	set		
	W3-(0.60m x 0.50m) Awning Window on Powder Coated Aluminum Frame	2	set		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
	Painting Works				
	Elastomeric Paint Finish (Exterior walls)	117	sq.m.	₽	₽
	Epoxy Enamel Paint Finish (Steel Members)	27	sq.m.		
	Latex Paint Finish				
	Ceiling	63	sq.m		
	Interior Walls	161	sq.m		
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
$\perp$				MATERIALS COST IV	₽
-				LABOR COST IV	<del>  -</del>

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				DIRECT COST IV	₽
V	SANITARY / PLUMBING WORKS				
•	Waterline System				
	20mm Ø PPR Pipe	3	piece	₽	₽
	20mm Ø x 20mm Ø Tee Equal	2	piece	F	Г
	20mm Ø 90° Elbow	3	piece		
	20mm Ø Coupling	3	piece		
	Fixtures	3	piooo		
	Bidet, Heavy-Duty, Stainless Steel (Water Efficient)	2	unit		
	Floor Drain, 100mm x 100mm	4	piece		
	Grease Trap, 5GPM, Heavy Duty, with Accessories	1	set		
	Hose Bibb, Heavy Duty (Water Efficient)	7	piece		
	Kitchen Sink, Single, Tub	2	piece		
	Kitchen Sink Faucet, Lever Type (Water Efficient)	2	piece		
	Lavatory, Wall Hung, Kiddy	1	unit		
	Lavatory Faucet, Lever-type, Stainless Steel (Water Efficient)	1			
	Water Closet, Tank Type, Kiddy (Water Efficient)	2	piece unit		
	Accessories & Hardwares		unit		
	Angle Valve, Single-Way, Stainless	6	piece		
	Angle Valve, Two-Way, Stainless	1	-		
	Flexible Hose, Stainless	7	piece		
	Miscellaneous & Consumables	,	piece		
	400cc Solvent Cement	2	can		
	All Purpose Sealant	2	can		
	Hacksaw Blade	3	piece		
	Teflon Tape	4	roll		
	Waste Cloth	2			
	Wadio Cidii		kg	MATERIALS COST V	₽
				LABOR COST V	
				DIRECT COST V	₽
				DIRECT COST V	<b>F</b>
VI	ELECTRICAL WORKS				
	Lighting and Power System				
	Roughing-ins				
	3/8" Rectangular PVC Moulding	27	piece	₽	₽
	Fittings & Accessories				
	4" x 4" Metal Junction Box with cover	3	piece		
	4" x 2" metal utility box	3	piece		
	4" x 4" metal square box	3	piece		
	Wires and Cables				
	3.5mm² THHN Wire	1	roll		
	2.0mm² THW Wire	70	l.m.		
	Lighting Fixtures (Energy Efficient)				
	600mm x 1200mm, 2 x 18w LED, Troffer Type, w/ complete accessories, recessed type	4	set		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	T8, 18w LED Tube light	4	piece		
	18W LED bulb	4	piece		
	Wiring Devices				
	Outlet with Gounding , One-gang for Proposed Ceiling Fan	1	piece		
	Switch w/ plate & cover, Two pole	4	piece		
	Switch w/ plate & cover, Single pole	1	piece		
	Ceiling Orbit Fan with Selector Switch	3	set		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	General Purpose Construction Adhesive	5	tube		
	All around Sealant	2	tube		
	Electrical Tape	2	roll		
	Hacksaw Blade	3	piece		
	Masking Tape	2	roll		
	Rubber Tape	2	roll		
				MATERIALS COST VI	P
				LABOR COST VI	
				DIRECT COST VI	P

#### SUMMARY

ITEM NO	WORK DESCRIPTION & SCOPE OF WORKS		TOTAL COST
        V    V	GENERAL REQUIREMENTS SITE WORKS CIVIL WORKS / STRUCTURAL WORK ARCHITECTURAL WORKS SANITARY / PLUMBING WORKS ELECTRICAL WORKS	S	₽
	y enforce health protocol relative to the applicable DPWH Memorandum.	TOTAL DIRECT COST  Overhead, Contingencies and Miscellaneous Expenses (OCM)  Profit  VAT  TOTAL ESTIMATED COST	₽

#### **BILL OF QUANTITIES**

#### (Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED REHABILITATION OF SITIO URLINA DAY CARE CENTER

LOCATION: BARANGAY NORTH FAIRVIEW, DISTRICT 5, QUEZON CITY

PROJECT NO. : 22 - 00030

#### **SCOPE OF WORKS:**

- General Requirements include temporary enclosure, billboard, scaffolding, construction safety and health, and clearing, hauling and disposal of construction materials and debris.
- II Site Works include demolition/removal works, earthworks and cleaning and cleaning for painting preparation.
- III Civil / Structural Works include concrete works, masonry works, metal works, roofing works, and moisture protection.
- IV Architectural Works include floor finishes, wall finishes, countertop finishes, ceiling finishes, painting works, installation of doors and windows, fabricated materials and letterings.
- V Sanitary / Plumbing Works include installation of roughing-ins, fixtures and accessories.
- VI Electrical Works include installation of roughing-ins, lighting fixtures, wiring, devices, panelboard and accessories.
- VII Utility and Ancillary Works include repair of lined canal.
- 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
I	GENERAL REQUIREMENTS				
	Billboard	1	unit	₽	₽
	Clearing, Hauling and Disposal of Construction Materials and Debris	3	t.l.		
	Construction Safety and Health Equipment	1	unit		
	Scaffolding (Rental)	41	sq.m		
	Temporary Enclosure Around the Construction Area (H=2.4m)	11	l.m.		
				DIRECT COST I	P
II	SITE WORKS				
	Demolition/Removal Works				
	Removal of Floor Tiles	30	sq.m	₽	₱
	Removal of Water Closet	1	set		
	Removal of Kitchen Sink	1	set		
	Removal of Ceiling	65	sq.m		
	Removal of Doors	3	set		
	Removal of Windows	3	sq.m		
	Demolition of Main Roofing and Framing	83	sq.m		
	Demolition of CHB Wall	6	sq.m		
	Chipping of CHB Wall	2	sq.m		
	Cleaning and Clearing for Painting Preparation	94	sq.m.		
	Excavation for Structures				
	Wall Footing	2	cu.m.		
	Footing	1	cu.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Backfill and Compaction	2	cu.m.		
				Subtotal	₱
	Gravel Bedding	1	cu.m.	₽	₽
				Material Cost	₱
				Labor Cost	
				Subtotal	₱
				MATERIAL COST II	₽
				LABOR COST II	
				DIRECT COST II	₽
Ш	CIVIL WORKS / STRUCTURAL WORKS				
	Concrete Works				
	On-Site Mix Concrete, 21MPa, 3/4" Gravel @ 28 days				
	Footing	1	cu.m	₽	₽
	Wall Footing	1	cu.m		
	Column	1	cu.m		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire #				
	10mm Ø Reinforcing Steel Bar				
	Column	27	kg		
	Wall Footing	12	kg		
	12mm Ø Reinforcing Steel Bar				
	Wall Footing	17	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire #				
	16mm Ø Reinforcing Steel Bar				
	Column	49	kg		
	Footing	25	kg		
	Formworks				
	Column	7	sq.m		
	Wall Footing	3	sq.m		
	Scaffolding/Shoring		•		
	Column	7	l.m.		
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and	25	00 m		
	Two-Face Plastering	25	sq.m		
	Moisture Protection				
	Cementitious Capillary Type Waterproofing	3	sq.m		
	Metal Works				
	Gate				
	50mm x 50mm x 6mm Tubular Bar	132	kg		
	25mm x 25mm x 1.5mm Tubular Bar	39	kg		
	G.I. Plain Sheet	3	sq.m.		
	38mmØ Barrel Bolt	1	set		
	38mmØ Foot Bolt	2	set		

NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Cylindrical Hinge, Heavy Duty	6	piece		
	Roof Framing				
	50mm x 75mm x 1.2mm C-Purlins	234	kg		
	50mm x 100mm x 1.5mm Tubular Bar	256	kg		
	10mm Ø Sagrod	31	kg		
	6mm thk Base Plate	18	kg		
	18mm Ø Dyna Bolt	95	piece		
	Miscellaneous & Consumables				
	Acetylene Tank Refill	1	tank		
	Assorted Metal Drill	4	piece		
	Cut Off Blade	5	piece		
	Grinding Disc	5	piece		
	Oxygen Tank Refill	3	tank		
	Welding Rod	1	box		
	Roofing Works				
	Pre-painted G.I. Rib Type Roofing	85	sq.m		
	Pre-painted G.I. End Flashing	39	l.m.		
	12mm x 300mm Fiber Cement Fascia Board	39	l.m.		
	6mm Thk. One-Sided Aluminum Foil Thermal Insulation	85	sq.m		
	Blind Rivet	276	piece		
	Tekscrew	390	piece		
	Silicon Sealant	39	tube		
			N	MATERIAL COST III	₽
				LABOR COST III	
				DIRECT COST III	₽
IV	ARCHITECTURAL WORKS				
	Floor Finish				
	600mm x 600mm Homogeneous Tiles	22	sq.m.	₽	₽
	300mm x 300mm Non-Skid Homogeneous Tiles	2	sq.m.		
	Floor Topping for Preparation of Tile Works	24	sq.m.		
	Plain Cement Finish with 50mm Concrete Topping	14	sq.m.		
	Wall Finish		<u> </u>		
	300mm x 300mm Homogeneous Tiles	7	sq.m.		
	Countertop Finish (Hand Washing)		<u> </u>		
	600mm x 600mm Homogeneous Tiles	7	sq.m.		
	Ceiling Finishes		' ' ' '		
	6mm Fiber Cement Board including Metal Framing	70	sq.m.		
	Fabricated Materials		' ' ' '		
	Fixed Stand Cabinet	4	sq.m.		
	Countertop with Undercounter Cabinet	2	I.m.		
	Countertop Will Officiousinor Cubinot	<del>-</del>		Materials Cost	₽
				Lanni i nei	
				Labor Cost Subtotal	₽

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Installation of Doors				
	D-1 - (0.9m x 2.1m) Wooden Panel Door	1	set	₽	₱
	D-2 - (0.6m x 2.1m) PVC Door with Louver	1	set		
	D-3- (0.6m x 2.1m) Wooden Panel Door	1	set		
	Door Jamb				
	D-1 - (0.9m x 2.1m) Wooden Panel Door	1	set		
	D-3- (0.6m x 2.1m) Wooden Panel Door	1	set		
	Hardware and Accessories				
	Door Hinge, Heavy Duty, Stainless	9	piece		
	Door Knob, Lever-Type, Heavy Duty, Stainless	3	piece		
	Installation of Windows				
	W1 - (1.2m x 0.9m) Sliding Powder Coated Aluminum	2	oot		
	Framed Window		set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Painting Works				
	Elastomeric Paint Finish (Exterior Walls)	76	sq.m	₱	₱
	Epoxy Enamel Paint Finish (Steel Members)	67	sq.m		
	Flat Latex Paint Finish				
	Interior Walls	89	sq.m		
	Ceiling	70	sq.m		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Cleaning and Retouching of Painting with Simple Design	21	sq.m.	₽	₽
				Subtotal	₱
	Letterings				
	200mm Stainless Steel Lettering	24	set	₽	₽
				Materials Cost	₽
				Labor Cost	
				Subtotal	₽
				Cubiciai	
			١ .	I MATERIAL COST IV	₽
				LABOR COST IV	
				DIRECT COST IV	₽
V	SANITARY / PLUMBING WORKS			5201 0001 IV	
•	Sewer Line / Storm Drainage System				
	PVC Roughing-Ins				
	50mm Ø PVC Standard Hub Pipe	2	piece	₽	₽
	100mm Ø PVC Standard Hub Pipe	2	<u> </u>		1
	50mm Ø PVC 1/4 Bend		piece		
	100mm Ø PVC 1/4 Bend	1	piece		
	100mm Ø PVC 1/4 Bend 100mm Ø PVC Cleanout	1	piece		
	TOUTHIN & PVC Cleanout	1	piece		]

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	50mm Ø No-hub Coupling	2	piece		
	50mm Ø PVC P-Trap	2	piece		
	Waterline System				
	20mmØ PPR Pipe	3	piece		
	20mmØ x 20mmØ Tee Equal	4	piece		
	20mmØ 90° Elbow	3	piece		
	20mmØ x 12mm Ø Female Threaded Tee	4	piece		
	25mmØ Union Patent	1	piece		
	20mmØ Coupling	2	piece		
	Fixtures				
	Bidet, Heavy-Duty, Stainless with Complete Accessories (Water Efficient)	1	unit		
	Floor Drain Stainless, 100mm x 100mm	2	piece		
	Grease Trap, 5GPM	1	set		
	Hose Bibb, Lever-Type, Stainless, Heavy Duty (Water Efficient)	5	piece		
	Kitchen Sink Faucet, Lever-type Heavy Duty Stainless Steel (Water Efficient)	1	set		
	Kitchen Sink, Single-Tub, Stainless	1	set		
	Water Closet, Tank Type, Kiddy	1	set		
	Hardware and Accessories				
	Angle Valve, One-Way Stainless Steel	1	piece		
	Angle Valve, Two-Way Stainless Steel	1	piece		
	Flexible Hose, Stainless	2	piece		
	Miscellaneous				
	15mmØ Concrete Drill Bit	1	piece		
	15mmØ Metal Drill Bit	1	piece		
	All Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	piece		
	Teflon Tape	3	roll		
	Waste Cloth	1	kg		
			I	MATERIAL COST V	₱
				LABOR COST V	
				DIRECT COST V	₱
VI	ELECTRICAL WORKS				
	Roughing-ins				
	20mmØ PVC Pipe	30	piece	₱	₽
	32mmØ PVC Pipe	5	piece		
	25mmØ IMC Pipe	3	piece		
	Fittings and Accessories				
	20mmØ PVC Adaptor	30	piece		
	20mmØ PVC Locknut and Bushing	30	pair		
	32mmØ PVC Adaptor	4	piece		
	32mmØ PVC Locknut and Bushing	4	pair		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	25mmØ IMC Coupling	2	piece		
	25mmØ IMC Elbow	2	piece		
	25mmØ Weatherproof Entrance Cap	1	piece		
	50mm x 100mm PVC Utility Box	15	piece		
	100mm x 100mm PVC Junction Box with Cover	15	piece		
	Wires and Cables				
	3.5mm² THHN Wire	2	roll		
	5.5mm² THHN Wire	40	l.m.		
	14.0mm² THHN Wire	30	l.m.		
	2.0mm² TW Wire	50	l.m.		
	3.5mm² TW Wire	20	l.m.		
	8.0mm² TW Wire	15	l.m.		
	Lighting Fixtures ( Energy Efficient )				
	300mm x 1200mm, 2 x 18w LED, Troffer Type, with Complete Accessories, Recessed Type	4	set		
	1 x 18W LED, Tube Light, Box Type	3	set		
	100mmØ Receptacle with 10W LED Bulb	3	set		
	Wiring Devices & Other Fixtures				
	Aircon Outlet, Multipurpose Outlet	1	piece		
	Convenience Outlet with Ground, Two Gang	5	piece		
	Wall Fan, Heavy Duty with Selector Switch	4	set		
	Switch with Plate and Cover, One Gang	3	piece		
	Switch with Plate and Cover, Two Gang	1	piece		
	Pipe Hangers & Supports		pioco		
	Horizontal layout of pipe	10	l.m.		
	Vertical layout of pipe	5	l.m.		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	All around Sealant	1	can		
	Electrical Tape	8	roll		
	G.I Tie Wire (for Wire/Cable Pulling)	2	kg		
	Hacksaw Blade	2	piece		
	Pulling Lubricant	1	gal		
	Rubber Tape	5	roll		
	Tabbot Tapo	+ -	1	I MATERIAL COST V	₽
				LABOR COST V	
				DIRECT COST V	₽
				5	
VII	UTILITIES AND ANCILLARY				
	2 Layer Lined Canal	12	l.m.	₱	₱
			N	MATERIAL COST VI	₽
				LABOR COST VI	
				DIRECT COST VI	₽

NO WORK DESCRIPTION AND SCOPE OF WORKS QTY UNIT UNIT COST TOTAL COST	ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
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#### SUMMARY

ITEM NO	WORK DESCRIPTION AND SCOP	PE OF WORKS	AMOUNT
	GENERAL REQUIREMENTS SITE WORKS CIVIL WORKS / STRUCTURAL WORKS ARCHITECTURAL WORKS SANITARY / PLUMBING WORKS ELECTRICAL WORKS UTILITIES AND ANCILLARY		₽
NOTE:		TOTAL DIRECT COST ies 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)	<ul> <li><u>and</u> registration for the type and cost of the contract to be bid; <u>and</u></li> <li>Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;</li> </ul>
	(j)	or Original copy of Notarized Bid Securing Declaration; and Project Requirements, which shall include the following:  a. Organizational chart for the contract to be bid;
		b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy);
		c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment

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

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

rentals used in coming up with the Bid; and

Cash Flow by Quarter.

(r)

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

### Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM	
Date : Project Identification No. :	

To: [name and address of Procuring Entity]

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

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

currently based on GPPB Resolution No. 09-2020

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

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

#### Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

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

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

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

[Jurat]

#### **Omnibus Sworn Statement (Revised)**

[shall be submitted with the Bid]

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

#### **AFFIDAVIT**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[Jurat]

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

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

#### CONTRACT AGREEMENT

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

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

#### NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

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

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

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

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

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

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

for:

for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

Performance Securing Declaration (Revised)

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

REPUBLIC OF THE PHILIPPINES)	
	) S.S

#### PERFORMANCE SECURING DECLARATION

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

I/We, the undersigned, declare that:

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

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

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

[Jurat]

NAME OF CONTRACTOR:	

PROJECT TITLE		9220-22292	100000000000000000000000000000000000000		CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR,	TOTAL	DATE OF	TOTAL	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	VALUE OF OUTSTANDIN WORKS (IN PHP)
									TOTAL AMOUNT OUTSTANDING V		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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## 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

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# 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 JVJ and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION OF ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

	4	
Page	4.04	
- W. B. W.		

#### LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:		
DDOISCT TITLE		
PROJECT TITLE:		

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

Page	100	
1 once	OI.	

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

NAME OF CONTRACTOR:			
PROJECT TITLE:			

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

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## COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

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

KELU	) S. S.		
	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 stat		afte
having	g been duly sworn to in accordance with law, hereby voluntary depose and stat	te:	
	That I am duly authorized representative of the <u>IName of Bidder</u> undertaking as evidenced by Secretary's Certificate and Board Resolution.	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> here 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.	by undertake rely be used a	and
	That I am executing this affidavit to attest to the truth of the foregoing and in with the submission of the technical requirements for the public bidding of the	compliance se said projec	t.
of	IN WITNESS HEREOF, I have hereunto signed my name below thi	s	day
	AFFIANT FURTHER SAYETH NAUGHT.		
	Affiant		
	SUBSCRIBED AND SWORN TO BEFORE ME this day of		_
affiant		issued	at
Doc. No	0. ;		
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Notary Public

