PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

Project number: 24-00078

Sixth Edition July 2020

Preface

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

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

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

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

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

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

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

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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



REPUBLIC OF THE PHILIPPINES



QUEZON CITY GOVERNMENT
BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE & CONSULTANCY
2nd floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City
BACONC PILIPINAS

July 23, 2024

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
Buil	lding – S	mall B					
1	24- 00071	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Don Quintin Paredes High School	Quirino 2-B	1,961,350.80	120	Engineering Department	Special Education Fund (Local School Board)
2	24- 00072	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Camarilla Elementary School	San Roque	3,414,099.96	120	Engineering Department	Special Education Fund (Local School Board)
3	24- 00073	Proposed Rehabilitation of Youth Development Office at 7th Floor Civic Center Building A	Central	4,557,947.65	90	Engineering Department	Engineering
4	24- 00074	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Aguinaldo Elementary School in Barangay San Roque	San Roque	6,557,365.27	150	Engineering Department	Special Education Fund (Local School Board)
5	24- 00075	Proposed Rehabilitation of Multi-Purpose Building at Holy Spirit Barangay Complex	Holy Spirit	6,671,860.84	90	Engineering Department	20% Community Development Fund
6	24- 00076	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Culiat High School in Barangay Culiat	Culiat	8,437,798.40	90	Engineering Department	Special Education Fund (Local School Board)
7	24- 00077	Proposed Rehabilitation of Maclang Dialysis Clinic at Rosario Maclang Bautista General Hospital	Batasan Hills	8,530,829.81	120	Engineering Department	20% Community Development Fund
8	24- 00078	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Juan Sumulong High School	San Roque	9,935,119.32	150	Engineering Department	Special Education Fund (Local School Board)
9	24- 00079	Proposed Rehabilitation of QC Citizen Services Department at 14th Floor High Rise Building	Central	10,824,613.48	120	Engineering Department	Engineering – Continuing
10	24- 00080	Proposed Rehabilitation of Comfort Rooms and Upgrading of Waterline System at Project 3 Elementary School	Duyan- Duyan	11,087,908.73	150	Engineering Department	Special Education Fund (Local School Board)
11	24- 00081	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Culiat Elementary School in Barangay Culiat	Culiat	11,308,289.35	120	Engineering Department	Special Education Fund (Local School Board)

12	24- 00082	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Balara Elementary School in Barangay Pansol	Pansol	17,249,724.10	150	Engineering Department	Special Education Fund (Local School Board)
13	24- 00083	Proposed Construction of E- Vehicle Charging Stations at Quezon City Hall Compound	Central	22,883,314.41	120	Engineering Department	20% Community Development Fund - Continuing
14	24- 00084	Proposed Rehabilitation of Three Storey Civic Center Building at Lagro Subdivision in Barangay Greater Lagro	Greater Lagro	26,973,817.17	180	Engineering Department	Engineering - Continuing
Bui	lding – N	fedium A					
15	24- 00085	Proposed Construction of Two (2) Storey with Deck Multi-Purpose Building (Senior Citizen, and Gathering Area) at Villilia Village, Brgy. Talipapa	Talipapa	30,740,164.41	210	Engineering Department	20% Community Development Fund
16	24- 00086	Proposed Construction of Three (3) Storey with Deck Roxas Multi-Purpose Building at Barangay Roxas	Roxas	49,495,484.94	210	Engineering Department	20% Community Development Fund
17	24- 00087	Proposed Construction of Catwalk and Watchtower including Appurtenances at Bureau of Jail Management and Penology (BJMP) Compound	Bagong Silangan	51,250,926.05	240	Engineering Department	Engineering
18	24- 00088	Proposed Rehabilitation of Basement to Fourth Floor (Offices) Civic Center Building B at Quezon City Hall Compound	Central	69,561,520.18	270	Engineering Department	Engineering
Bui	Iding – L						
19	24- 00089	Proposed Installation of Mechanical, Electrical, Plumbing, and Fire Protection System (MEPFS) at M.I.C.E. Center	Central	533,508,790.60	300	Engineering Department	Engineering
Cor	nmunica	tion Facilities - Small B					
20	24- 00090	Proposed Enhanced Surveillance System Using Fiber Optic Cable Technology at U.P. Village and Barangay Hall Complex, Barangay U.P. Village	U.P. Village	10,387,429.60	90	Engineering Department	Engineering
Ele	ctrical W	ork - Small B					
21	24- 00091	Quezon City Hall Solar PV Rehabilitation and Restoration in Civic Center Building E	Central	8,067,740.87	120	Engineering Department	Trust Fund
22	24- 00092	Proposed Installation of Solar Power System at Quezon City General Hospital	Bahay Toro	21,807,334.21	150	Engineering Department	Trust Fund
23	24- 00093	Proposed Installation of Streetlights in Barangay Krus Na Ligas, Pinyahan and Kamuning	Krus Na Ligas, Pinyahan and Kamuning	24,842,287.46	150	Engineering Department	20% Community Development Fund

Floc	od Contr	ol – Medium A					<i></i>
24	24- 00094	Proposed Rehabilitation of Retaining Wall along Magnolia Street at Spring Country Subdivision in Barangay Bagong Silangan	Bagong Silangan	49,061,995.55	210	Engineering Department	20% Community Development Fund
Roa	d – Sma	II B					
25	24- 00095	Proposed Rehabilitation of Road and Drainage at Bansalangin Street (Tanguille Street to Acacia Street), Parkwood Hills Subdivision in Barangay Bagong Silangan	Bagong Silangan	6,823,382.31	60	Engineering Department	20% Community Development Fund
26	24- 00096	Proposed Rehabilitation of Road and Drainage at Yakal Street (Anahaw Street to Kaymito Street), Parkwood Hills Subdivision in Barangay Bagong Silangan	Bagong Silangan	16,964,861.62	90	Engineering Department	20% Community Development Fund
27	24- 00097	Proposed Rehabilitation of Road and Drainage at Anahaw Street (Tanguile Street to Golden Shower Street), Parkwood Hills Subdivision in Barangay Bagong Silangan	Bagong Silangan	21,157,781.87	90	Engineering Department	20% Community Development Fund

- 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 non-discretionary "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 24 July 2024 (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 Document (in Philippine Peso)	
More than 500,000 up to 1 Million	1,000.00	
More than 1 Million up to 5 Million	5,000.00	
More than 5 Million up to 10 Million	10,000.00	
More than 10 Million up to 50 Million	25,000.00	
More than 50 Million up to 500 Million	50,000.00	
More than 500 Million	75,000.00	

The following are the requirements for purchase of Bidding Documents;

PhilGEPS Registration Certificate (Platinum – 3 Pages)

2. Document Request List (DRL)

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

It must be duly received by the BAC Secretariat at 2rd Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

 The QC-BAC-INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference¹ on August 2, 2024 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) which shall be open to prospective bidders.

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

- Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before August 15, 2024 – 9:00 AM. 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 August 15, 2024 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

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

ATTY. DOMINIC B. GARCIA

OIC, Procurement Department

2rd Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

Tel. No. (02)8988-4242 loc. 8506/8710

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

Website: www.quezoncity.gov.ph

12. You may visit the following websites:

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

By:

ARCH. LUCILLE H. CHUA, funp, piep

Chairperson, BAC-Infra and Consultancy

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

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL, with Project Identification Number 24-00078.

[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 2024 in the amount of Nine Million Nine Hundred Thirty-Five Thousand One Hundred Nineteen Pesos and 32/100 Ctvs. (P 9,935,119.32).
- 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 August 02, 2024 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

15. Bid Security

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

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "passed" using non-discretionary pass/fail criteria. The BAC

shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause			
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.		
7.1	Subcontracting is not allowed.		
10.3	No additional contractor license or permit is required In addition, eligible bidders shall qualify or comply with the following: 1. Bidders with valid Philippine Contractors Accreditation Board (PCAB) Type Building - Small B		
10.4	The minimum work experience requirements for key personnel are the		
	following: Qnty. Key Personnel General Experience Relevant Experience 1 Project Manager 3 years 3 years 1 Project-in-Charge (Project 3 years 3 years Engineer) 1 General Foreman 3 years 3 years 1 Trade Engineers/Leadman 3 years 3 years for Civil Works 1 Trade Engineers/Leadman 3 years 3 years for Electrical Works 1 Trade Engineers/Leadman 3 years 3 years for Mechanical Works 3 years		
	1 Safety Officer 3 years 3 years 1 DPWH duly accredited 3 years 3 years		
	Materials/QA/QC Engineer 1 Cost Engineer/ Project 3 years 3 years Scheduler 1 Surveyor 3 years 3 years		
	In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.		
10.5	The minimum major equipment requirements are the following:		
	Equipment Capacity Number of Units Dumptruck 12cu.yard 1 Chipping Gun 1		
	In addition, the bidder must execute an affidavit of undertaking duly		

	notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.
12	[Insert Value Engineering clause if allowed.]
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:
	a) The amount of not less than Php 198,702.39 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
	b) The amount of not less than Php 496,755.97 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	No additional requirement.
21	Additional Contract Documents relevant to the Project as required:
	1. Construction Schedule and S-curve,
	2. Manpower Schedule,
	3. Construction Methods,
	4. Equipment Utilization Schedule,
	5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 150 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the
	Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: [list here the required site investigation reports.]
7.2	[Select one, delete the other.]
	[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:] Fifteen (15) years.
	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is thirty (30) days The date by which "as built" drawings are required as part of final payment
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

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

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



Republic of the Philippines Quezon City DEPARTMENT OF ENGINEERING

Critic Center Building B, Quezzan City Half Compound, Estationi Road Dillings, Central 1100 Quezon City Trunkline +63 2 8988 4242 E-mail address: engineering@quezoncity.gov.ph



PROJECT TITLE:

PROPOSED OPGRADING OF WATERLINE SYSTEM AND REHABILITATION

OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

LOCATION: BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

TECHNICAL SPECIFICATIONS

GENERAL REQUIREMENTS

- A. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations, and standards. Any works performed contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- B. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply
- C. Should there he 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.
- 6 Sine verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- F. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- G All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- H. Mobilization and Demobilization (if applicable)
 - 1 Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - 2 Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- Execute work in smict 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.
- Adequate construction safety and health protection shall be provided at all times during the
 execution of work to both workers and property.
 - 1 A fully-trained Medical Aids shall be employed permanently on the site who shall be engaged solely to medical duties.

- 2 The medical noons shall be provided with waterproofing; it could be a huilding or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
- 3 The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site.
- Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed.
- 5. Construction safety shall consist of construction canopy and safety net.
- K. Necessary protections to the adjacent property shall be provided so avoid untoward incidents / accidents.
- E. Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

L SITE WORKS

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

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

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

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

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

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

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

II. CIVIL/STRUCTURAL WORKS

A. CONCRETE WORKS

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

Materials

- a. Cernent for concrete shall conform to the requirements of specifications for Portland Cernent (ASTM C ~ 150).
- Water used to mixing concrete shall be clean and free from other injurious amounts of pils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
- c. 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.
- d. Coarse aggregates shall be either natural gravet 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 narrowes; 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 furns.

4 Proportioning and Mixing

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

Cement: Sand, Gravei

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

5. Porses

- a. General Forms shall be used whatever recessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be ¼° (6mm) thick ordinary plywood and form lumber.
- Cleaning of Forms before placing the concrete, the contact surfaces of the formed half
 he cleaned of encrustations of monar, the grout or other foreign material.
- c. 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 ence and sizing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

6. Placing Reinforcement:

Stept reinforcement shall be provided as indicated, together with all necessary tie wires, chairs, spacers, supports and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky mist 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.

7. Conveying and Placing Concrete

a. Conveying – concrete shall be conveyed from mixer to forms as repidly 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.

- b. 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 enherter may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum faceral movement specified.
- c. 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 revolutions of the machine mixer.
- d. Consolidation of Concrete concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and temping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and temping and vibrators shall not be used.
- e. Placing Concrete shrough reinforcement. In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the hottom of heams 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.

8. Curing

- a 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.
- b. Moist Curing The surface of the concrete shall be kept continuously wer by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or interminent hosing.

9. Finishing

- a. 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 parching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.
- b. 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. MASONRY WORKS

- Masoury Units (Concrete Hollow Blocks)¹
 - 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.
 - c. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns and Intial beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height and other considerations.

2. Sand:

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

Mostar:

One part Portland coment and two parts sand and water but not more than three parts yand and water.

4. Reinforcement:

The concrete hollow blocks shall be reinforced with 10mm diameter deformed bar, spaced not more than 0.8m on centers, both ways.

5 Plaster Bond:

The mixture of cement plaster for concrete hollow block wall finishes indicated in the drawings shall be one part Portland cement and three parts sand.

 Floor Topping Preparation for Tilework. One Portland coment and two parts sand and water but more than three parts sand and water.

C. ROOFING WORKS

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

Roof ventilators, whenever required shall be habricated front gauge 26 plain G L sheets and constructed to the dynamicous and details shown on Plans.

- 3. The rooting shall be secured to the purlins with min 2 ½" max. 3" long Tek screws. Provide all-purpose scalant under the fasteners. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.f. rib-type roofing sheets. They shall lap the rooting sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be rivered to the roofing sheets.
- 4. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line frewalls, shall be provided with Gauge 26 pre-painted plain G.3. Floshing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

D. METAL FABRICATION

Materials:

- Steel and Iron. If not specified otherwise, use standard mill-finished structural steel shapes or bar iron in compliance with ABSC Specifications for Design. Fabrication and Erection of Structural Steel for buildings.
- Bolts, Nats. Stads and Rivets. ASTM A 307 and A 325.
- Screws, Fed. Spec FF-S-85, Fed. Spec FF-S-92, and Fed. Spec. FF-S-111.
- Metal Purlins, Fligh grade galvanized steel with minimum tensite strength of 275 MPa.
 1.4mm in thickness or approved equal.

2. Febrication:

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 adexpose strength and durability, with tight, flush joints, dressed smooth and clean. Complete with bolts and outs.

Metal Surfaces:

Surfaces shall be clean and free from all scale, flake, rust and rust pitting; well-formed and finished to shape and size, with shapp lines, angle and smooth surface. Shearing and purching shall leave clean true lines and surfaces. Weld or rivel permanent connections. Weld and flush rivers 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.

4. Construction:

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

5. Welding:

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

III. ARCHITECTURAL WORKS

A. FLOOR FINISHES

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

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

B. WALL FINISHES

Ceramic Tiles. Glazed tiles and trans shall have an impervious face of ceramic materials fused
onto the body of the tiles and trans. The glazed surface may be clear white or colored depending
on the color scheme approved by the Engineer. Standard glazes may be bright (glossy), semimatte (Boss glossy), matte (dull) or crystolline (mottled and textured; good revistance to
abrasion).

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

Cement Plaster Flaish. Mortar mixture for brown coat shall be freshly prepared and uniformly
mixed in the proportion by volume of one part Portland Cement, three (3) parts sand and one
fourth (14) part hydrated lime.

C. CEILING FINISHES

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

D. PAINTING WORKS

Paint Materials. All types of paint material and other related products shall be subject to test as
to material composition by the Bureau of Research and Standard, DPWH or the National
Institute of Science and Technology.

- Tinting Colors. Tinting colors shall be first grade quality pigment ground in alkyd resin that disperses and mixes easily with paint to produce the color desired. Use the same brand of paint and tinting color to effect good paint body.
- Skim coat. Skim coat shall be fine powder type material like kalsomine that can be mixed into
 putty consistency, with nil-based primers and paints to fill minor surface dents and
 imperfections.
- Paint Schedule.
 - Ceiling Boards
 - 1 coal primer, 2 coats latex paint timsh
 - Interior Masonry Wall (Plain coment plastered finish to be painted)
 - Looat skim quating, I coat primer, 2 coats latex point finish.
 - Slab Suffit
 - 1 coat primer, 2 coats latex paint finish
 - d. Metal / Speci Surfaces
 - Logar primer, 2 coats spoxy enamel finish
- 5. Surface Preparation. All surfaces shall be in proper condition to receive the finish. Woodworks shall be hand-sonded smooth and dusted clean. All knot-holes pitch pockets or sappy portions shall be scaled with natural wood filler. Nail holes, cracks or defects shall be carefully puttied after the first coat, matching the color of paint.

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

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

In addition, the Contractor shall undertake the following:

- Voids, cracks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces.
- b. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
- Panting and varnishing works shall not be commenced when it is too hot or cold.
- Allow appropriate ventilation during application and drying period
- All hardware will be fitted and removed or protected prior to painting and varnishing works.
- 6 Application. Paints when applied by brush shall become non-fluid, thick enough to lay down as adequate film of well pains. Brush marks shall have flawed out after application of paint.

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

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

- Application shall be as per paint Manufacturer's specification and recommendation.
- Provide all drop cloth and other covering requirate for protection of thors, walls, aluminum, glass, finishes and other works.

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

IV. 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:
 - Potable water supply system completes in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, hibbs, insulation, all accessories required for complete and operational of the system
 - 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.
 - Soil waste and vent system complete in all respect including but not furnited to connection to existing sewer, subminals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
 - 4. Sterm dramage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, clearant, 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 grogram of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and 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, composents 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 exits cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipetines 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 sopply 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 choses in walls and ducts are closed. Also, test shall be carried out prior to false ceilings and other finishes are installed.
- S. Tasting 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-sected at the appropriate test pressure
- T The Sanilary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- Drainage pipe shall be tested by filling the pipe with 2m, 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 2-4/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed, fusion inserts to forms and install reinforcing bars through openings at top of inserts.
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment
- CC.Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping

v. ELECTRICAL WORKS

A. CONDUITS, BOXES AND FITTINGS

- 1. This item shall consist of the furrishing and installation of the complete conduit work, consisting of electrical conduits; conduit boxes such as junction boxes, pull boxes, criticy boxes, octagonal and square boxes; conduit fittings, such as couplings, locknints and bushings and other electrical materials needed to complete the conduit roughings in work of this project.
- All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
- All works throughout shall be executed in the best practice in a workmantike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer.
- 4. The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
- All lighting fixtures and lamps are as specified and listed on lighting fixture schedule.
- 6. All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground reds, clamps, connectors, ground wells and ground wiretap as shown in the approved design.
- All auxiliary systems such as telephone and intercom system, time clock system, fire alarm system
 and public address/nurse's call/paging system installations shall be done in accordance with the
 approved design.
- Upon completion of the electrical construction work, the contractor * shall provide all lest equipment
 and personnel and to submit written copies of all test results.
- 9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective worknowship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

B. WIRES AND WIRING DEVICES

- This Item shall consist of the furnishing and installation of all wires and wiring devices consisting of electric wires and cables, wall switches, convenience receptacles, heavy duty receptacles and other devices shown on the approved Plans but not mentioned in these specifications.
- Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark. Unless specified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts. All wires shall be copper, soft drawn and annealed, smooth and of cylindrical form and shall be centrally located inside the insulation.
- 3. Conductors or wires shall not be drawn in conduits until after the cement plaster is dry and the conduits are thoroughly cleaned and free from dirt and moisture. In drawing wires into conduits, sufficient slack shall be allowed to permit easy connections for fixtures, switches, receptables and other wiring devices without the use of additional splices.
- 4. All conductors of convenience outlets and lighting branch circuit homerons shall be wired with a manimum of 3.5 mm in size. Circuit homerons to panelboards shall not be smaller than 3.5 mm. No conductor shall be less than 2 mm in size.

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

C. PANELBOARDS

- 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.
- Enclasures: Flush, Surface, Plush- and surface-mounted aubinets.
 - Rated for environmental conditions at installed location.
 - Indoor Dry and Clean Locations: NEMA, Type 1.
 - ii Outdoor Locations, NEMA, Type 3R.
 - Kitchen and Wash-Down Areas: NEMA, Type 4X, stainless steet
 - Indoor Locations Subject to Dust, Falling Dirf, and Dripping Nancorrosive Liquids: NEMA.
 Type 12.
 - Outdoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, Type 5R.
 - Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions, for flush-mounted fronts, overlap box.
 - Hinged Front Cover: Entire from trim hinged to box and with standard door within hinged trim
 cover.
 - d. Skirt for Surface-Mounted Panelboards: Same gauge and firmsh as panelhoard from with flanges for attachment to panelhoard, wall, and ceiling or floor.
 - e Gutter Extension and Barrier: Same gage and finish as penelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.

i Firmshes:

- Panels and Time: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's mandard two-cost, baked-on finish consisting of prime cost and themnosetting topopat.
- Back Boxes: Galvanized steel Same finish as panels and trim.

- Fungus Proofing: Permanent lungicidal treatment for overcurrent protective devices and other components.
- g. Directory Card: Inside panelbeard door, mounted in transparent eard holder metal frame with transparent protective cover.
- Incoming Mains Location: Top or Bottom.
- Phase, Neutral, and Ground Buses:
 - Material: Hard-drawn copper, 98 percent conductivity.
 - Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
 - Noutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral hus rated 200
 percent of phase bus and UI listed as suitable for nonlinear loads.

VI. MECHANICAL WORKS

A. WATER-PUMPING SYSTEM

- This item shall consist of furnishing and installation of water pumping system, inclusive of all piping and pipe fitting connections, valves, controls, electrical wirings, tanks and all accessories ready for service in accordance with the approved Plans and Specifications.
- Exposed piping sha'l be provided with concrete saddle or significantly to the structures.

Pipe threads shall be lubyicated by white lead, red lead. Teflor or other approved lubrication before tightening.

Piping supports shall be placed at 3m intervals or loss.

- B. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).
- C. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- E. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.
- F. When the tests and inspections have been completed, a 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.

Prepared by:

WINHELL® B' QUIMNO Civil Engineer, Planning and Design Division Checked by:

Civil / geinegt/Planning and

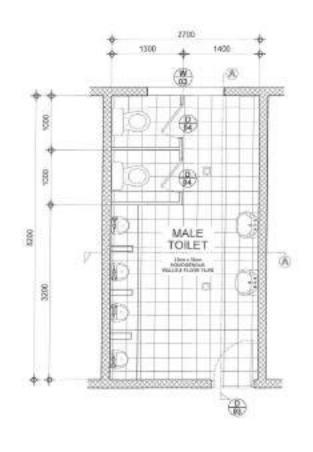
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Section VII. Drawings

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

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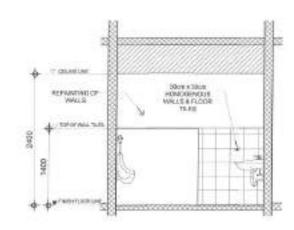


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CROSS SECTION "A"

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GROUND FLOOR MALE TOILET (MELDA BUILDING)

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CROSS SECTION "B"

(IMELDA BUILDING)

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PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

100047000 BARAMERY BAN ROQUE, II STREET & GOEZON CITY

DRAWN BY WYO COSC, MARRIAGO

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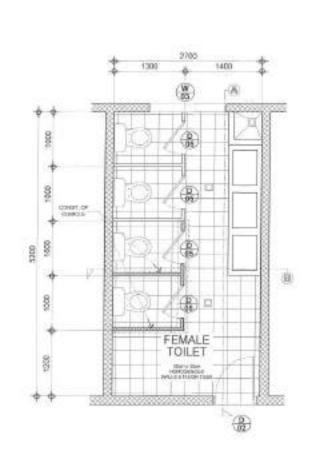
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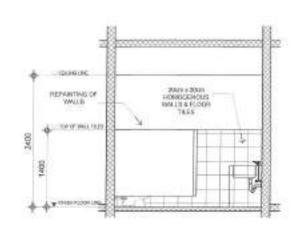


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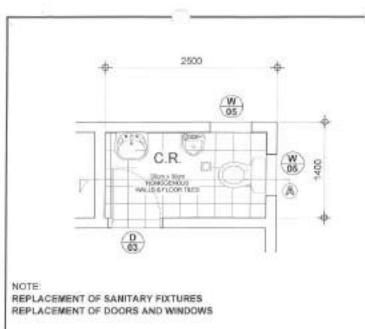
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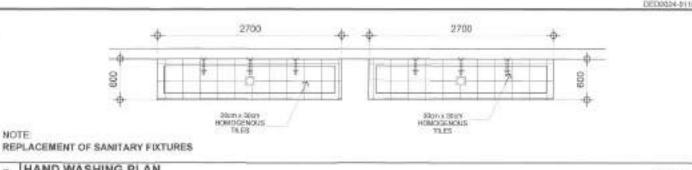
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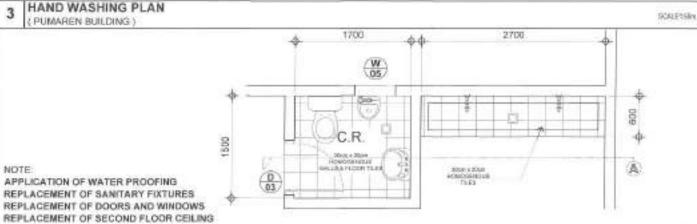
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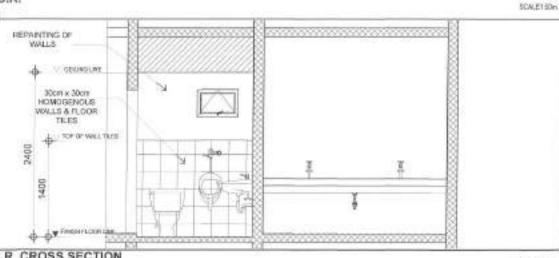
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REVISION NO.:

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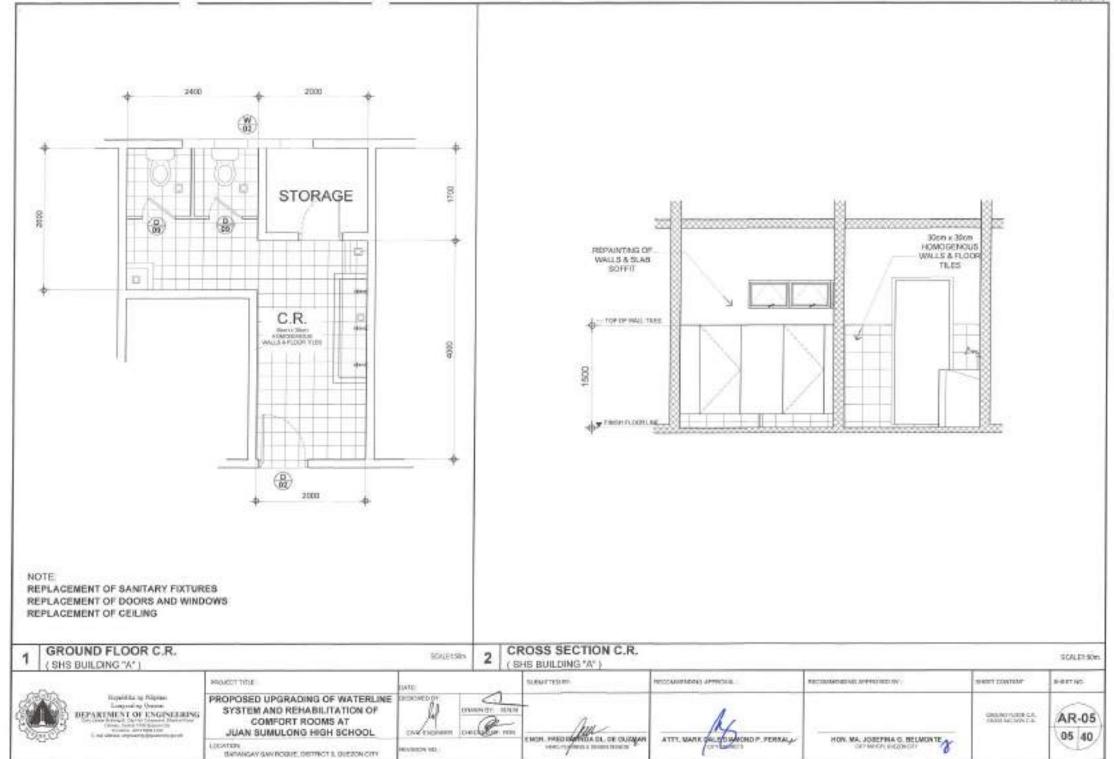
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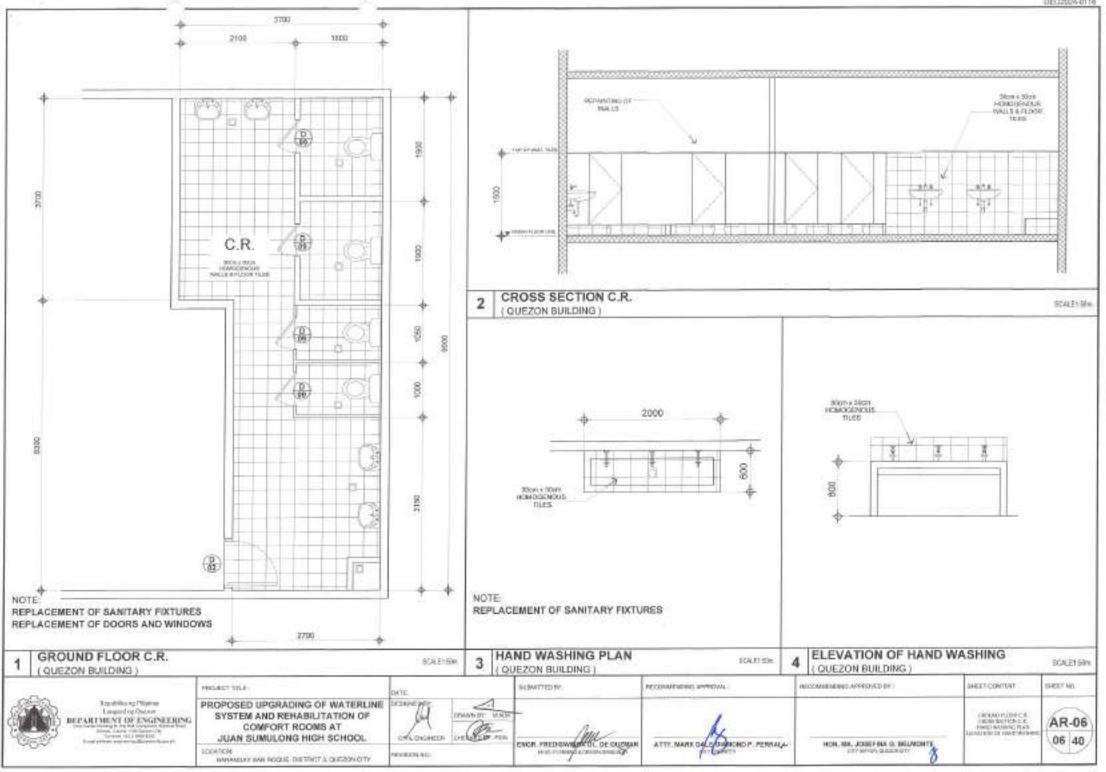
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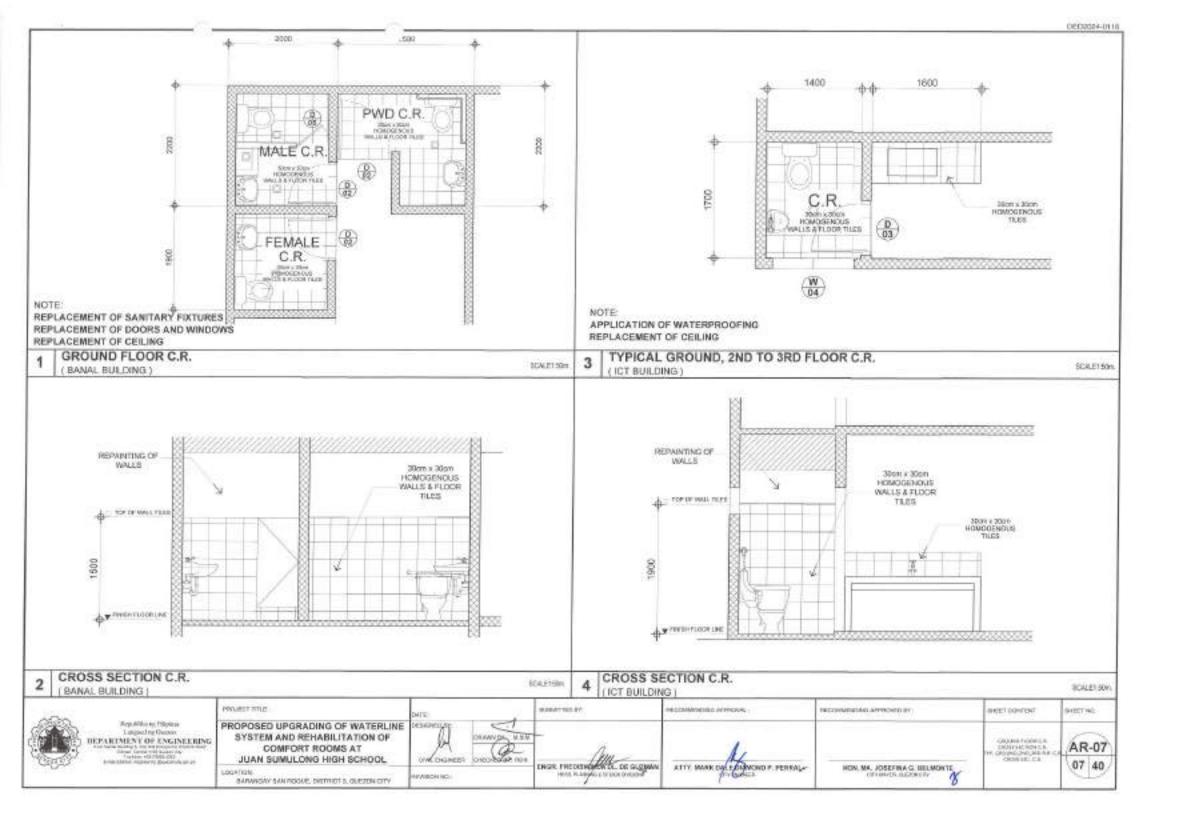
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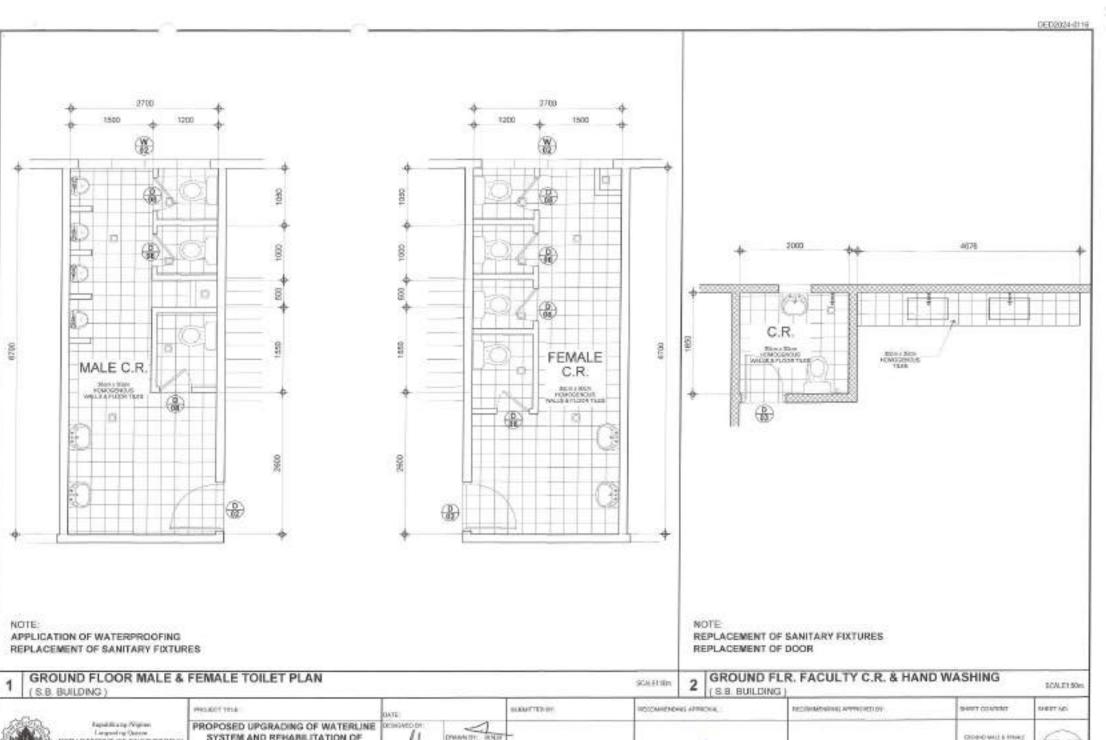
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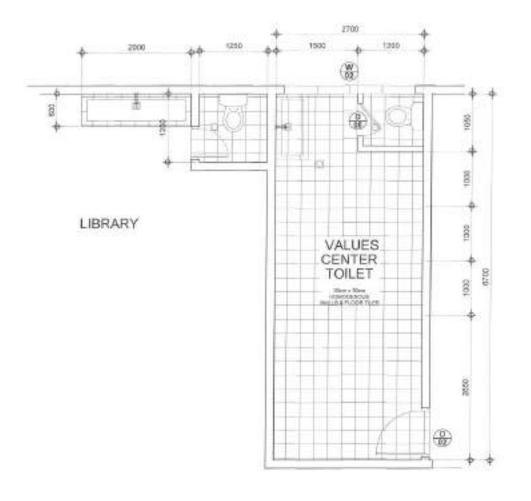


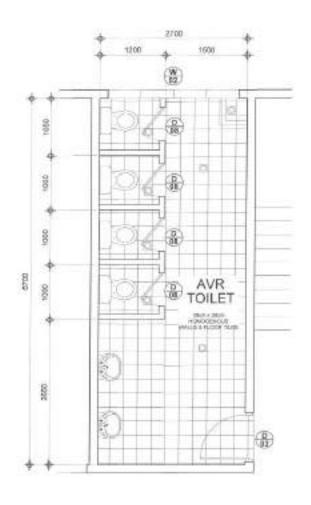






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NOTE APPLICATION OF WATERPROOFING REPLACEMENT OF SANITARY FIXTURES REPLACEMENT OF DOORS AND WINDOWS

SECOND FLOOR AVR & VALUES TOILET PLAN

(S.B. BUILDING)

Republisher Name Language Owner DEPARTMENT OF ENGINEERING

PROJECT TELE PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL HISTAGOUS

BARANDAY SAN ROQUE, DISTRICT & QUEZON OTY-

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RECOMMENDATION COMMENCED BY SHEET CONTINUE

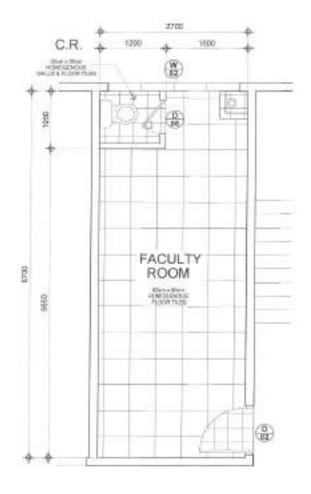
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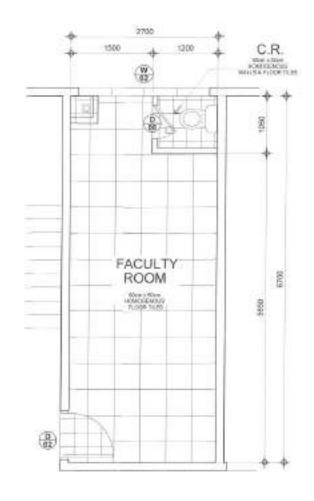
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NOTE.
REPLACEMENT OF SANITARY FIXTURES
APPLICATION OF WATERPROOFING AT TOILET
REMOVAL OF WALL TILES EXCEPT FOR CR
REPLACEMENT OF CEILING

THIRD FLOOR FACULTY TOILET PLAN

(S.B. BUILDING)

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PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF GOMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

BARANGAY DAN POQUE, DISTRICT & DUEZON CITY

CONCENSION CHECKER TON ENGR. FREDER

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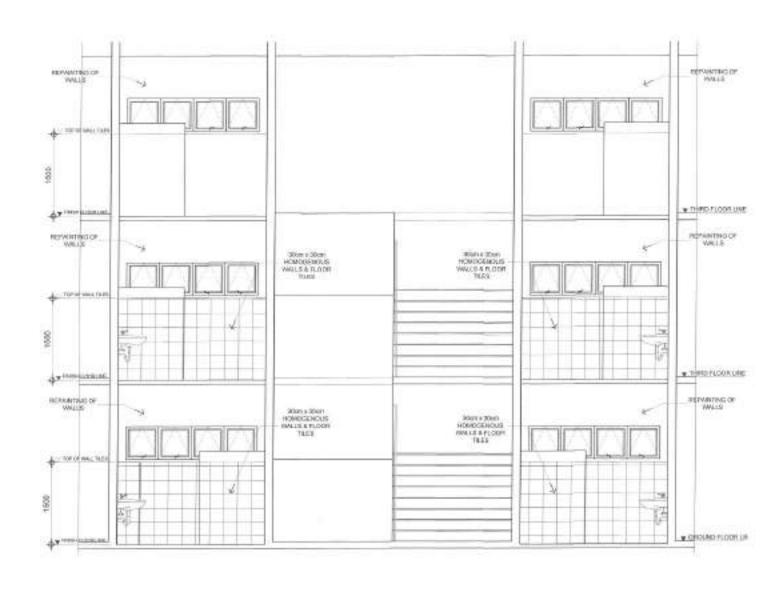
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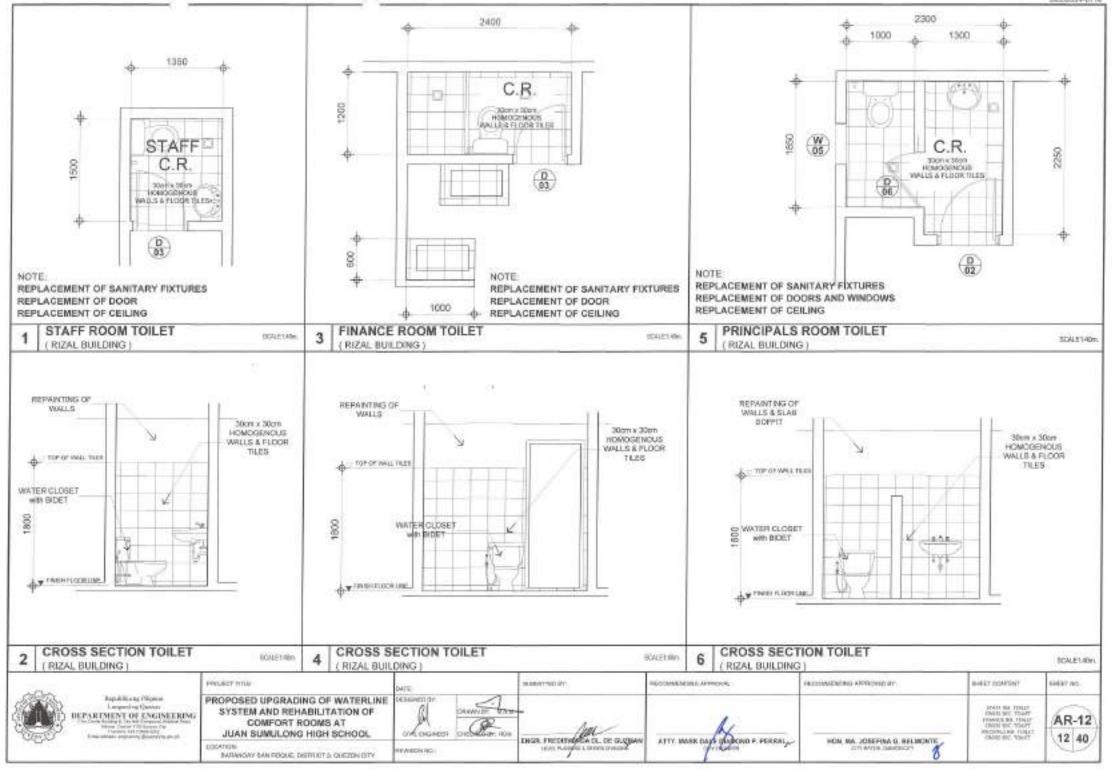
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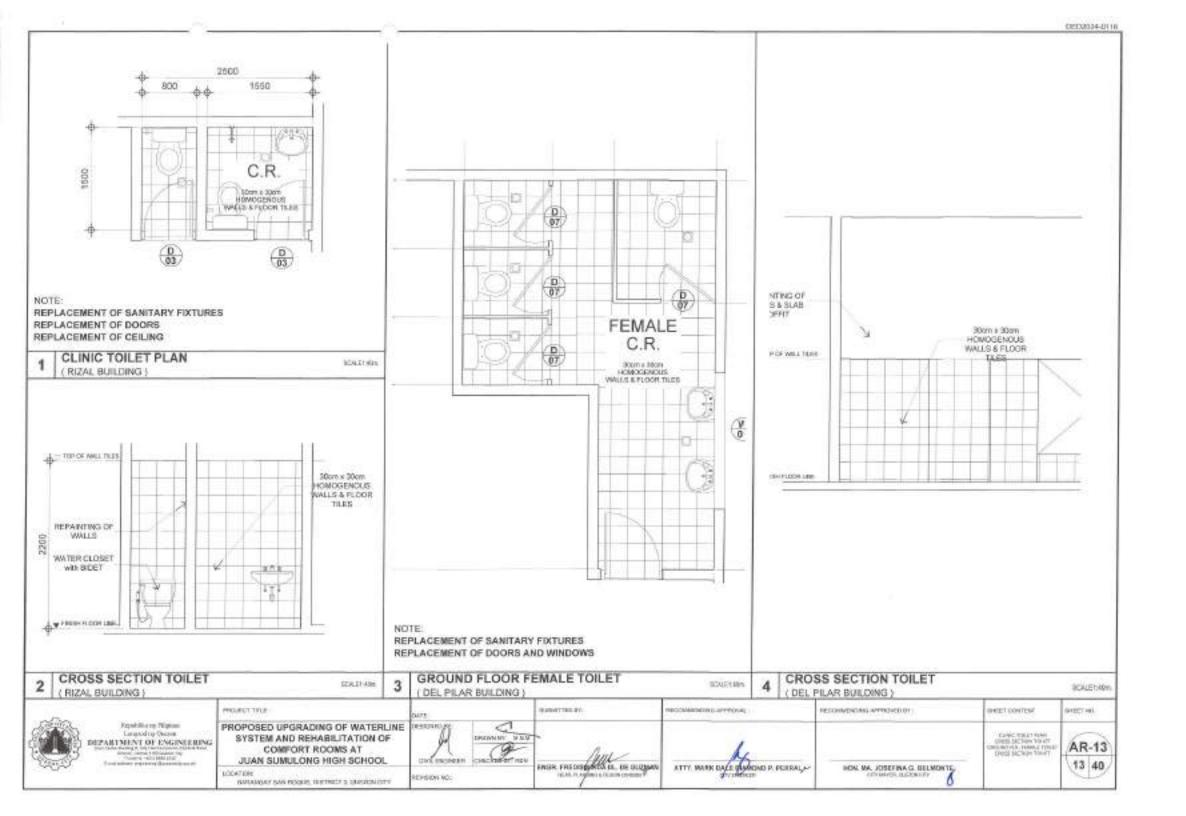


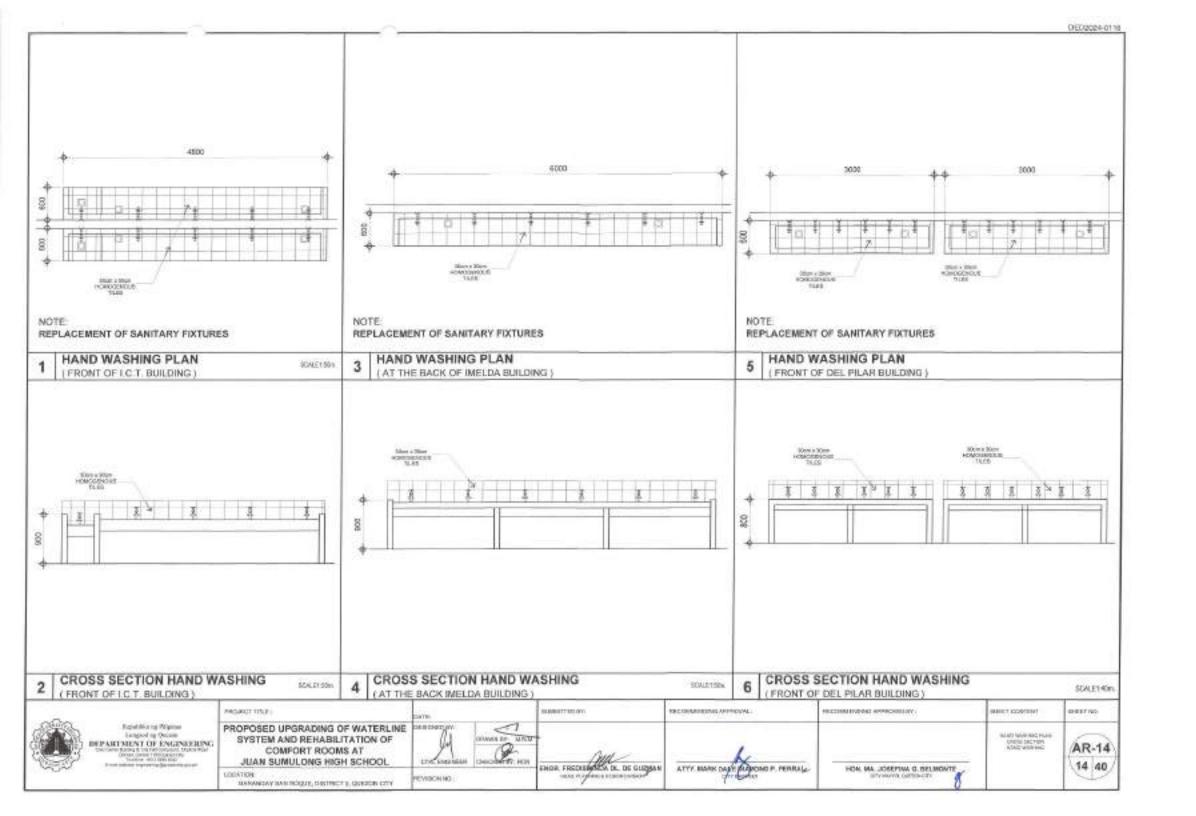


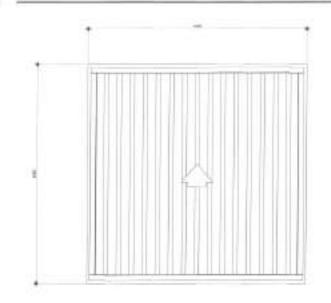
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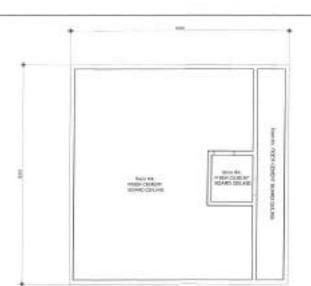




NOTE: REPLACEMENT OF ROOFING

ROOFING PLAN

(PUMAREN BUILDING)



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PROPOSED UPGRADING OF WATERLINE
SYSTEM AND REHABILITATION OF
COMFORT ROOMS AT
JUAN SUMULONG HIGH SCHOOL

SARAHOAY SAN ROOLE, DISTRICT S, OLICZON CITY

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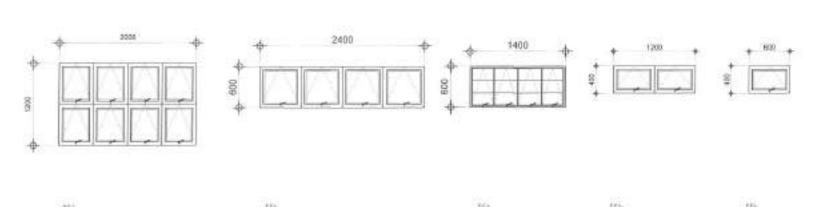
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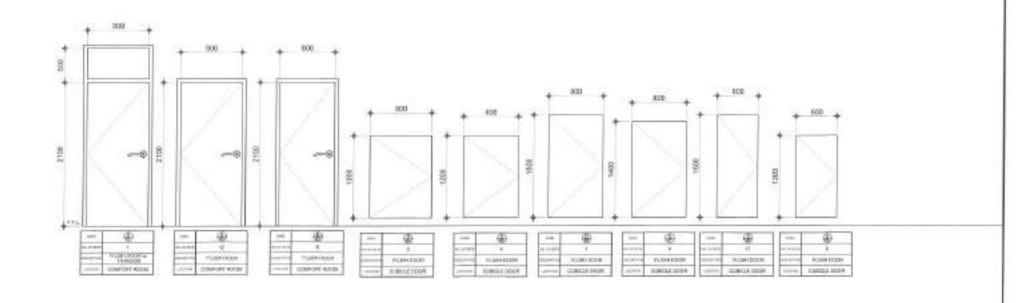


PARTICIPATION CONTROL CONTROL

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SCHEDULE OF DOORS AND WINDOWS

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PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

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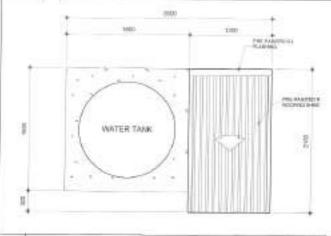
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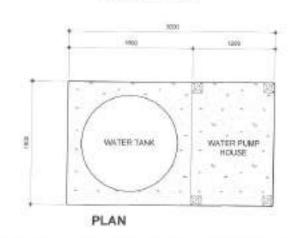


ROOFING PLAN WATER PUMP HOUSE

SEALING



CROSS SECTION

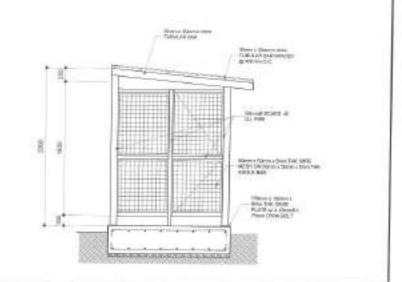


FRONT ELEVATION WATER PUMP HOUSE

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WATER TANK

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GENERAL NOTES

CONCRETE PAD DETAIL

SOLUTION.

SIDE ELEVATION WATER PUMP HOUSE

PRECORMENCING APPROVED BY

HOW, MA, JOSEPHA G. BELIEDHTE

DELENGE CHOOSE DAY

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PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

BAHANGAY SAN ROQUE, DISTRICT & QUEZON CITY



ENGR. PREDICEMBLA DL DE GUZHAN

AND MANAGEMENT APPROVED.

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DESTINATION

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GENERAL NOTES FOR SINGLE-PHASE SYSTEM

- ALL WORKS SHALL SE SPECUTED IN ADDITIONAGE TO THE LATEST EDITION OF THE PRILAPPINE BLOCTRICAL DODE, PHILIPPINE ELECTRONICS CODE, THE WATCHAL BUILDING DODE OF THE PHILIPPINES AND OTHER RELATED LANS AND ORDINANCES OF THIS CITY.
- S. ALL WORKS SHALL SE SUPCENSED BY A RESISTERED PROFITE BONAL RELATED TO THE ACTIVITIES BONG UNDERTAKEN.
- 2. ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRIDES SO TO AVOID CORFLICTS BURING EXECUTION OF ACTIVITIES.
- A ALL NECESSARY PERMITS SHALL BE SECURED 440 TURNED-OVER TO THE CITY.
- A WALDBAWNIGE AND SPECE CATIONS SHALL BE CORRECTLY REVIEWED BY THE CONTRACTOR AND BHAIL HIMICOUT FLY BE HE ORNIGO IF DISCREPANCY (FES) FOUND HERBIR.
- IS ALL DIMENSION IS BLEWATIONS AND REPERENCES, SHALL SE YORK ED WITH THE ACTUAL.

 CONOMICS PINCS TO EXPOUNCE.
- 7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
- ALL WORKS SHALL BE TESTED AND COMMISSIONED AS HORCATED IN THE SPECIFICATIONS WITH THE PROSENCE OF ALL PARTIES INVOLVE/RESULTS SHALL BE DOCUMENTED INTO PERLY.
- B. ALL PIPES AND LAYOUT ARE ONLY DIAGRAMMATIC. ACTUAL LAYOUT OF PIPES AND FITTINGS. IALLESS OTHERWISE REQUIRED. SHALL BE PROPERLY CONDUCALED.
- 16. NO PIPES DHALL BE ALLOWED TO BE SIBILIZIONED IN STRUCTURIN, MEMBERS, LINCESS CITIEPHINSE, APPROVED.
- T1 ALL PIPES, PITTINGS, EQUIPMENT AND POTURES SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- 12. SUPPORTS AND HANGERS SHALL DE PROVISED ACCORDANCE V
- TIL ALL EQUIPMENTS AND PORTURES SHALL BE ENVIRONMENTAL PREADLY.
- 54. INSTALLATION OF SERVICE ENTRANCE

14.1. THE TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 60: HERTZ 230Y AC WIRMAN.

14.2. THE SERVICE ENTRANCE EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.

14.3. THE MAIN OVEROUPRENT PROTECTION DEVICE SHALL BE OF THERMAL MAGNETIC BIDGS IN MEMA-3R WEATHERPROOF ENGLOSSING.

- 15. INSTALLATION OF USHT WIGHT NO AND HOWER SYSTEM
 - 15.1 ALL LIGHTING AND CONVENIENCE OUTLET CROUTS SHALL BE 3.2 BIS MIN THRIPTINAS COPPER WHE LINESS STREPHISS NOTED MINIMADE SEED F WHERE SHALL BE 65 SQ. BIM. COPPER WHEE. ALL WHEEK AND CASES SHALL BE DOUGH COOCH AS DOLLOW

LINE 1 - MED UNE 2 - BLACK NEUTRAL - BHITE GROUND - DRECO

16.2. ALL EMBEDGES BRANCH CIRCLETS SHALL BE PUT CONCLETS AND FOR EXPOSED BRANCH AND SHALL BE MIC SUPPORTED BY CORRECT CLAMPS EVERY 750 MELMICITIES AND OR COMMUNICATIONS AND RESIDENCE A

18.1 GONDATE IN NO CASE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BRINDS IN ANY CINE BUY, ALL COMBUTE BRINDS SHALL BE FIELD MADE BY USING THE PURPAULIC SENDERS. IN ANY CINE BUY, ALL COMBUTE BRINDS SHALL BE FIELD MADE OF USING THE GOOD REQUIREMENTS.

15.4. ALL POWER OUTLETS AND SINTCHES SHALL BE GROUNDING THRE WITH PARALLEL SLOTS FOR 225 V.

18 S. PROVIDE GROUND PAULT GURMENT HITEMBUFTER CIRCUIT BREAKER FOR LOADS WARKED. "GFCF ON THE PLAN.

154. ALL METALLIC CONDUITS. SHIFCHES, LIGHTING RICTURES, PAMELBOARDS, EQUIPMENTS AND HON-CURRENT CAPITYING METAL PARTS SHILL BE PROPERLY BROLLMOID AND KONDUIT.

PROJECT TITLE

ISJUALL MOUNTING HERRITS FOR WALL INCONTENDENCES BRAIL BE AS ROLLOWS:

A. LIGHTING SHITCH 1400 BBI ABOVE FLOOR FINEN B. CORNESPENCE OLIFOTT 300 MM ABOVE FLOOR FINEN

1994M ABOVE HERMOND COUNTER.

C. PANEL ROVAD AND CASINETS: 1 100 MM A SERVE PLOCH FINISH
1 DOT LIGHT 1 100 MM TOP OF DOCK JAMES
E SMENGENCY LIGHT 2000 ABOVE PLOCH DISERSORICY.

15.1. FULL BOXES SHALL BE WHENEVER RECESSION TO PACELITATE WIFE FULLING EVEN IF THESE AGE AND INDICATED DATE AND

TRUE FOR EACH SPACE BRANCH CORDUIT IN SANGLED ARO, PROVIDE ONE SIMM DIAMETER INVESTY CORDUIT TO HIS WATER TO TOO MAKE COTAGOIVA, SON ADDITE COLING, MINIBRAY SIZE OF PULLEOK SHALL BE TROMAT STORMAT TOOMA.

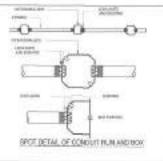
15.3. ALL CRIZUT ROGARERS (HALL) BE ROLT ON TYPE WITH INTERRIPTING CAPACITY AS NODOCTED IN THE PLANS, PANELISCHORS IN MALLIE SHEVERSTED BRIEF FORDER CONTELLIGACE. TO LINEAR SHE

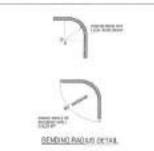
16A PRESIDER AND REMAINSH CREQUIT COMPUTETORS IN CARRIE THANKS SHALL SE ORDUPED, BONDED AND TRADEO TO INDICASE EXCLUSIVE THE ELECTRICAL CHARACTERISTICS SUCH AS CITICAL HARRIES AND RAIGH DESIGNATION.

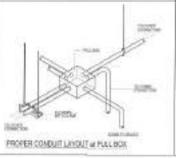
18.5. REPER TO MICHARION, PLUMBING AND FIRE PROTECTION ORGANINGS FOR FATRICE AND LOCATIONS OF EDUPMENT AS WELL AS THEIR CONTROL SEQUENCES AS SPECIFICA AND ON SIX MY MURIE IT HE IT RESPECTIVES EDUCINOS.

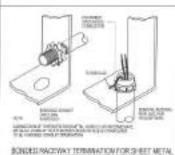
ISLA ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE MEST DUALITY, IRRAPO NEW AS SPECIFIED, IT ALIST BE APPROVED TWYS FOR THE INFERDIAGE DICEATION AND PURPOSE INTENSES.

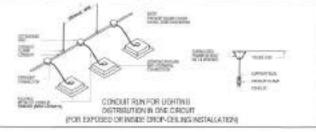
T8, 18W LED, BOX TYPE WITH TUBE LIGHT
8WATTS LED BULB w/ RECEPTACLE
ONE GANG SWITCH
TWO GANG SWITCH











1 GENERAL NOTES

2 LEGENDS AND SYMBOLS

SCALE NTS.

MISCELLANEOUS DETAILS

RECOVERNORS REPRORES BY

SCALE NTS.

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Languading Course
DEPARTMENT OF ENGINEERING
District Street Course of Section Sec

PROPOSED UPGRADING OF WATERLINE SESSED PROPOSED PROPOSED

SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

LOCATION: RARANGAY BAN ROCLE DISTRICT IL QUEZON CITY E A STATE STATE OF ST

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ENGIR, PRECUSSIONED DE DE GUERNA

MARKETT DO BY

ATTY, MARK DISKS STANDOND P. PERRAL

HOM. MA. JOSEPHNA G. BELMONTE.

DESERVE MOTES LITERAL AND SYMPHES MEDITLANDORS DETAILS

THIT GOOD TEBER

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PANEL: MAIN:	PUMP IME 40AT, 100A			SED - TAP TO EXISTING PEEDER UNE	>						
CKT NO.	VOLTS	συ	m.ET	OTHER LOAD SERVICE	A	MPERE LOV	NO.	301	VOLT	CROUT	President Country
CKI-MD.	- VOLIS	60.	.00	DIMENDIADSERVICE	AB	CA.	90	340	AMPERE	BREAKER	SIZE OF WIRE
1	230			2.0HP BOOSTER PUMP	12.00				2760.00	30AT, 2P, Solt-On	2 - 5.5mm ² THHN (1) + 1 - 3.5mm ² THW (1) in 20mm8 IMC
- 2	230			2.0HP BOOSTER PUMP	12.00				2760.00	30AT, 2P, doll-On	2 - 5.5mm THHW (i) + 1 - 3.5mm THW (G) in 20mm@ (MC
3	230		Library Control	SPARE						30AT, 2P, Bolt-On	
			TOTAL		24.00	0.00	0.00	D.00	5520.00	THE PROPERTY.	

| = [\$520/230]+{12 x 0.25}-

30.00 Amperes

Feeder Line:

Use: 2 - 14mm2 T4HN + 1 - 8.0mm2 TW (6) in 25mmØ IMC

PANEU MAIN:	PUMP BAY 46AT, 100A		CONTRACTOR OF THE STATE OF	ED - TAP TO EXISTING FEEDER LINE							
DET NO.	VOLTS	OUT		ala ien i au s venu see	AMPERELOAD			38	VOLT	CROUT	
CAT NO.	VISITIES	1.0	CD	OTHER LOAD SERVICE	AB	CA.	90	-360	AMPERE	BREAKER	SIZE OF WIRE
1	230			Z.OHP BOOSTER PUMP	12.00				2700.00	30AT, 2P, Bolt-On	Z - 5.5mm2 THHN (L) + 1 - 3.5mm2 THW (G) in 20mm8 IM
2	130			2.0HP BOOSTER PUMP	12.00				Z760.00	30AT, 2P, Bolt-On	2 - 5.5mm2 THHN (LI + 1 - 3.5mm2 THW (G) in 20mm@ HW
3	230			SPARE	10000	10000	225	10000	120000	30AT, ZP, Bult-On	
	2000		TOTAL	12000-1	24.00	0.00	0.00	0.00	5520.00	Section Advanced in	

+ = (5520 / 230) + (12 × 0.25) =

30.00 Amperes

Feeder tine:

Use: 2 - 14mm*THHN + 1 - 8.0mm*TW (G) in 25mm@1MC

PANEL WAIN:	PUMP SB B 40AT, 100A			TAP TO EXISTING PEEDER LINE)		== 5237 U 5474			100000		
OXT NO.	VOLTS -	DU	TLET	ANALY CAN DESCRIBE	AMPERE LOAG			24	VOLT	CHOUT	903-00000
CALAG.	VOLIS	LO	00	OTHER LOAD SERVICE	A8	CA	BC	305	AMPERE	BREAKER	SIZE OF WIRE
1	230			2.0HP BOOSTER PUMP	12.00				2760.00	30AT, 2P, Bolt-On	2-5.5mm2 THHW (L)+1-3.5mm2 THW (G) in 20mm@ (MC
2	230			2.0HP BOOSTER PUMP	12.00				2760.00	30AT, 2P, Bolt-On	2 - 5.5mm2 THHN (1) + 1 - 3.5mm2 THW (G) in 30mm8 IMC
3	230			SPARE						30AT, 2P, 8ort-On	
	- 1		TOTAL		24.00	0.00	0.00	0.00	5520.00		

T = (5520 / 230(+(12 × 0.25) =

30.00 Amperes

Feeder Line

Like: 2 - 14mm2 THHN + E - 8:0mm2 TW (G) in 25mm8 HMC

1 SCHEDULE OF LOADS

SCALES 40es



REDACT TELE
PROPOSED UPGRADING OF WATERLINE
SYSTEM AND REHABILITATION OF
COMFORT ROOMS AT
JUAN SUMULONG HIGH SCHOOL
LOCATER

RARANGAY SAN HOOLS DISTRICT 1, QUICTON CITY





ATTY, MARK DALL SANDHO P. PERRAL

PRODUMENDING APPROVA

HON MA. JOSEFINA G. BELMONTE

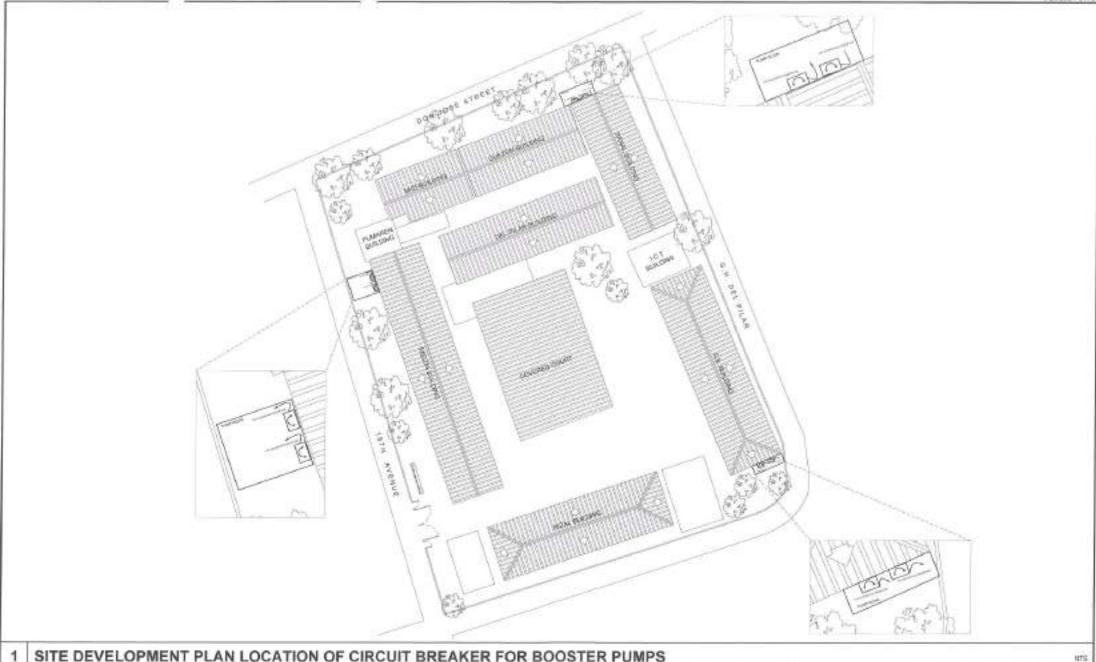
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SITE DEVELOPMENT PLAN LOCATION OF CIRCUIT BREAKER FOR BOOSTER PUMPS

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PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL BORNOG.

BARAWONY SAN ROOMS DISTRICT'S, QUEZON CITY

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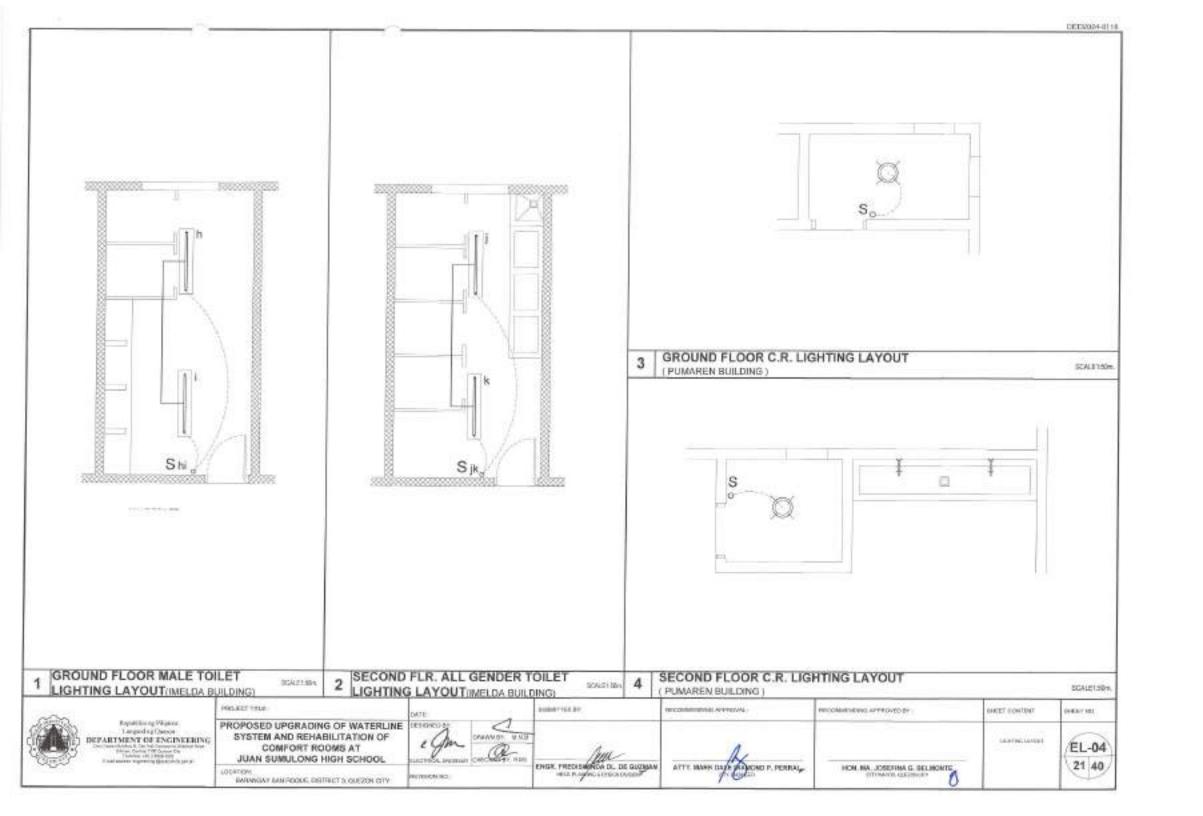
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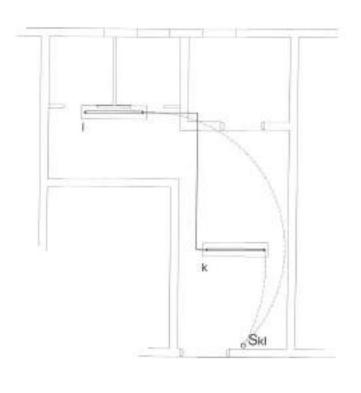
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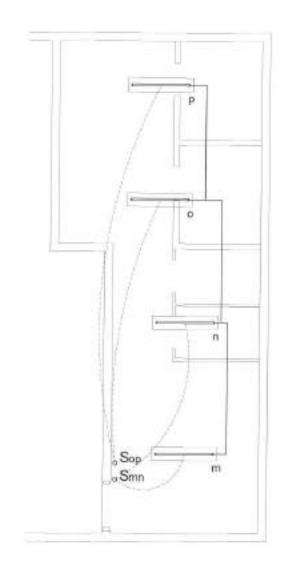
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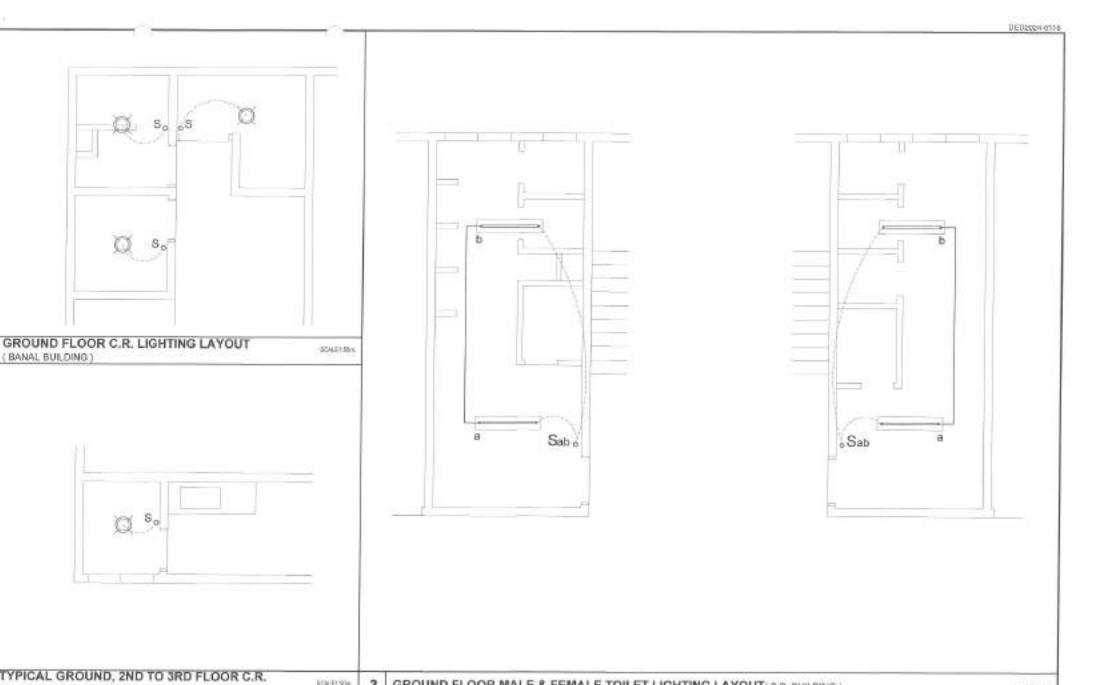




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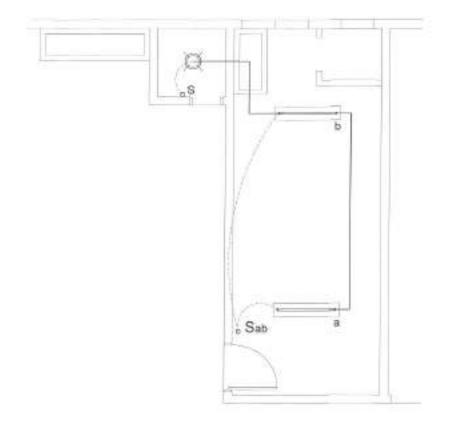


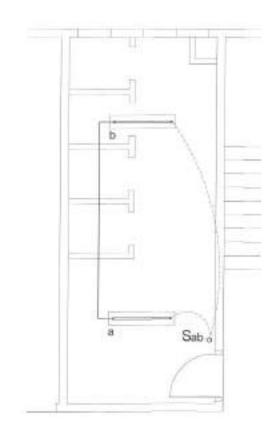
GROUND FLOOR C.R. LIGHTING LAYOUT GROUND FLOOR C.R. LIGHTING LAYOUT SCA.1150s: SHS BUILDING "A"] SEALE150n (QUEZON BUILDING) PROBUTINE BANKETH THE PRODUKTINESS OF PROVINCE RECOMMENDAG APPROVALENT SHEET NO. DEST CONTINUE Equilibring Nigrous PROPOSED UPGRADING OF WATERLINE Obsessor Language Oneson SYSTEM AND REHABILITATION OF DEPARTMENT OF ENGINEERING TO DESCRIPTION OF THE PROPERTY OF T SOUTH WEST EL-05 COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL ENGR. PREDMINISTER OF GEOGRAPH 22 40 ATTY, MARK DALLOW MOND P. FERBAL HON, MA, JOSEF WARD, BELMONTH DEPOSITION NO.



TYPICAL GROUND, 2ND TO 3RD FLOOR C.R. GROUND FLOOR MALE & FEMALE TOILET LIGHTING LAYOUT(S.B. BUILDING) MEALET SON LIGHTING LAYOUT (ICT BUILDING) SCALE1:50m BHRTHO. BURNETHE PER MICCHERD CHARGE VINDORS RECORDERED A THEFRE IT NAMES OF STREET Econolists on Polynomia PROPOSED UPGRADING OF WATERLINE DOARNIES NAME Language of the Chapter SYSTEM AND REHABILITATION OF PARTMENT OF ENGINEERING (GRYNG) FOR EL-06 COMFORT ROOMS AT ENGR. PREDEDIMENTA DI DE GUENNAN JUAN SUMULONG HIGH SCHOOL ATTY MARK CALL DE MONO P. PERRAL 23 40 HON, MA. JOSEFINA G. BELMONTE 18110001101 EMPANDAY SAN POONE, DISTRICT & GUEZON OTY

(BANAL BUILDING)





SECOND FLOOR MALE & FEMALE TOILET LIGHTING LAYOUT (S.B. BUILDING)

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MINIETTINE PROPOSED UPGRADING OF WATERLINE DESIGNED OF SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

BARMAGAY SAN ROQUE DISTRICT S. QUEDON CITY

REPARADA NO.:

C. Jan Division of Man St.

ENCH PREDEWINDADL DE GLEMAN

SUBMITTED BY

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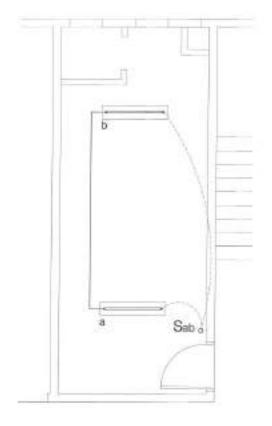
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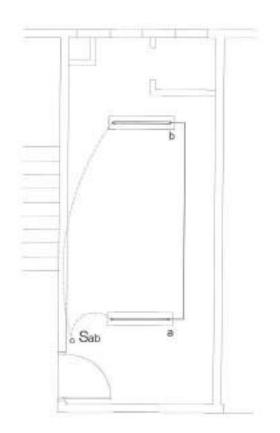
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DESCRIPTION OF THE PARTY





THIRD FLOOR MALE & FEMALE TOILET LIGHTING LAYOUT

(S.B. BUILDING)

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RECURSIONS APPLICATE.

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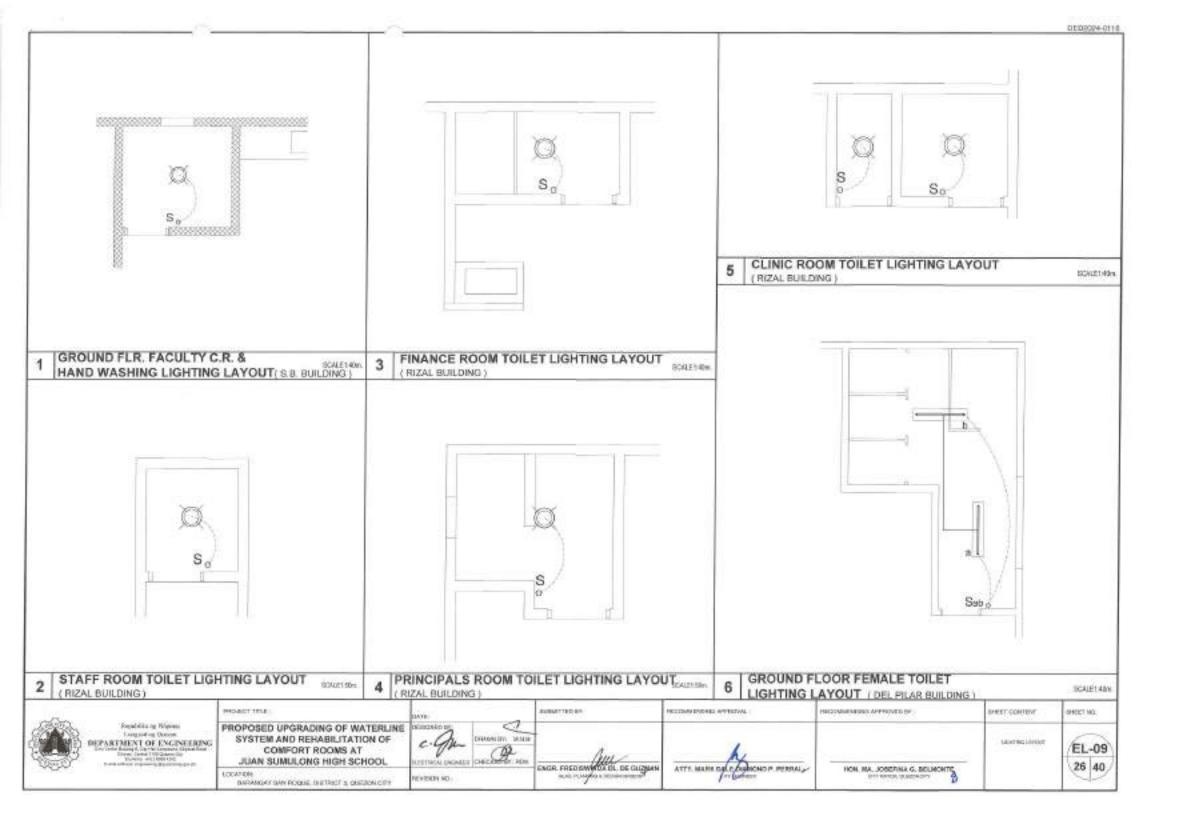
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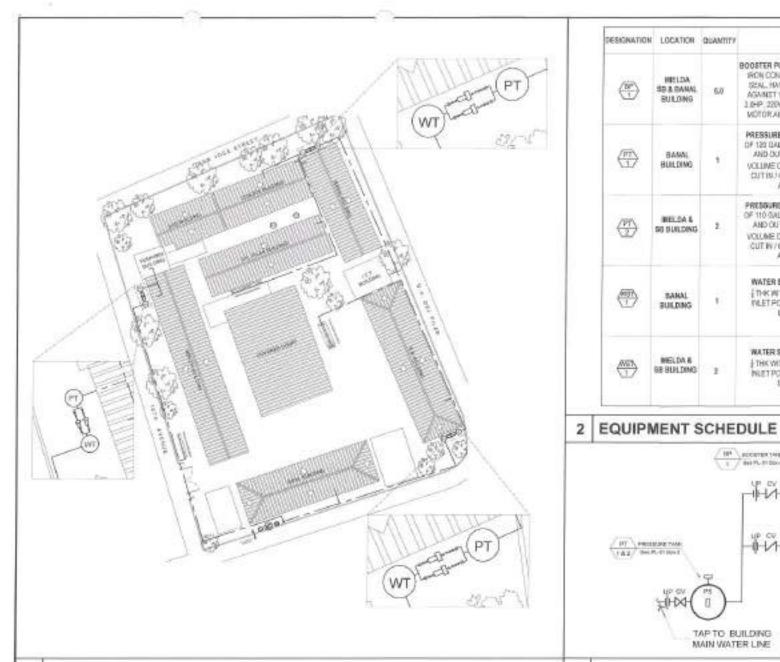
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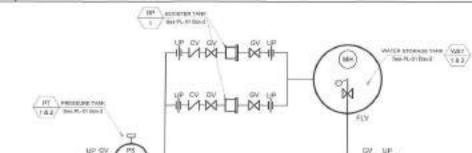
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DESIGNATION	LOCATION	DUAMTITY	DESCRIPTION	REMARKS
(BP)	MELDA SB & SAMAL BULDING	6.0	BOOSTER PUMP, HORIZONTAL END SUCTION, CENTRIFUGAL, CAST IRON CONSTRUCTION STANLESS STEEL SHAFT, MECHANICAL SEAL, HARD PLASTIC IMPELLER INTH A GARACITY OF 50 FPM AGAINST HID FT TOTAL DYNAMIC HEAD CLOSE COUPLED TO A 1.0HP 228V 18, SOHZ, HIGH EFFICIENT MOTOR, COMPLETE INTH MOTOR AUTOMATIC AND ALTERNATIVE ELECTRIC OPERATION	UMT SHALL BE EQUIPPED HITH PUMP CONTROLLER FOR AUTOMATIC AND AUTEMWITE OPERATION CONTRACTOR EUPPLY EINSTALL
	BAMAL		PRESSURE TANK, STAINLESS STEEL, GA PH WITH A CAPACITY OF 120 DALLONS, UNIT SHALL BE COMPLETE WITH INLET FORT AND OUTLET PORT DRAIN FORT, PRESSURE GAUGE, AR VOLUME CONTROLLER, AIR PRESSURE SINTCH SET AT # PS OUT IN) OUT DYF PRESSURE SETTING WITH A MOTOR FOR AUTOMATIC AND ALTERNATE OPERATION.	LOCALLY FABRICATED AND FACTORY TESTED AT 300 PM MAX RATING OPERATION CONTRACTOR SUPPLY & WISTALL
3	WELSA & SO BUILDING	2	PRESSURE TAME, STANLESS STEEL ON THE WITHIN CAPWCITY OF 110 GALLONS, LINIT SHALL BE COMPLETE WITHINLET PORT AND OUTLIET POWT, DRIVAN PORT, PRESSURE GAUGE, AR VOLUME CONTROLLER, AIR PRESSURE SWITCH SET AT BE PSICULTED FOR PORTSON OF THE MOTOR PORTSON OF THE MOTOR PORTSON OF THE MOTOR PORTSON OF THE PRESSURE SETTING WITHIN MOTOR PORTSON OF THE PRESSURE PRESSURE SETTING WITHIN MOTOR PORTSON OF THE PRESSURE PRESSURE PRESSURE P	LOCALLY FAIRICATED AND FACTORY TESTED AT 200 PM NAX RATINO DPERATION CONTRACTOR SUPPLY BINSTALL
	BANAL BUILDING		WATER STORAGE TANK, STAILESS STEEL CONSTRUCTION { THE WITH A CAPACITY OF 1708 BALLONS, COMPLETE WITH PLET PORT, OUTLET PORT, VEHT MANHOLE, DRAIN PORT & LAGGER RUNG, HOMEOWYALLY INSTALLED	LOCALLY FARRICATED AND FACTORY TESTED AT 150 PM MAX RATING OPERATION CONTRACTOR SUPPLY & NOTALL
(MST)	BIELDA 6 SE BUILDING	2	WATER STORAGE TANK, STAVILLESS STEEL CONSTRUCTION THIS WITH A CAPACITY OF 1000 GALLONS, COUPLETE WITH NULT PORT, OUTLET PORT, VENT MANHOLE, GRAIN PORT & LADDER RUNG, HORIZONTALLY INSTALLED.	LOCALLY PARRICATED AND PACTURY TESTED AT 108 PIS- WAX RATING CPERATION CONTRACTOR SUPPLY EINSTALL



PRICONTENENTS APPROVED BY

SITE DEVELOPMENT WATERLINE LAYOUT

WATER PUMP ASSEMBLY DIAGRAM 3

ANGERVIE GREEK BHADOOR

TAP TO BUILDING

MAIN WATER LINE

W.T.S.

DEFECT NO.

MES

Lepublishing Physics Larged by Oscora DEPARTMENT OF ENGINEERING

PROJECT STARS

LODATION

PROPOSED UPGRADING OF WATERLINE **BYSTEM AND REHABILITATION OF** COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

SANOTEST BAR ROOMS OF THEY A GUILLON OTH

DESIGNATION . PEYERBY MO.

SAMATTER BY NAMES OF STREET

ENGR. FREDERINGER DL. DE GUZYAN

N.T.S

ATTY MARK OF A BONCHOP PERRAL

HON HIA JOSEPHA G. BELMONTE

FROM MAIN

WATERLINE

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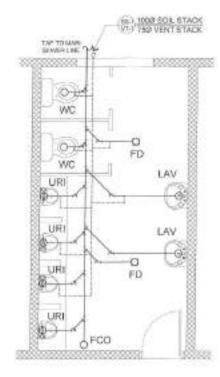
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- ALL WORKS SHALL BE EXECUTED IN ACCORDANGE OF THE UNIFORM PLANING CODE OF THE PHILIPPINES, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER HIS ATCD LIANS AND DRIDWANCER DE THIS CITY
- IN ALL WORKS IN ALL AN INFERVIOUS BY A RESISTENCY PROPERTY. RELATED TO THE WOTIVITES. BEING UNDERTAKEN
- II ALL WORKER IN HILL BY COCKETMATED WITH THE RESPECTIVE TRADES SO TO ARGID CONFLICTS DUTING EXECUTION OF ACTIVITIES
- 4. ALL NEGEROWRY PERMITS SHALL BE SECURED AND TURNED-OVER TO THE DITH.
- 6. ALL DRAWINGS AND EPECRECATIONS SHALL BE CONFECTLY PENEMBERY THE CONFINCTOR AND SHALL BINGDIVINGLY BE INFORMED IF DISIDRETWICH (SEE FOUND HOPEIN.
- 8. HULDIMENSIONS, ELEVATIONS WITH REPERENCES SHALL BE VERIFIED WITH THE AUTUM, CONDITION PRIOR TO EXECUTION.
- 7. SHICF DRAWINGS SHALL REPPROVIDED AS RECESSARY PRIOR TO THE EXECUTION.
- 6. ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATION WITH THE PRESENCE OF ALL PARTIES WHOLVE, RESULT SHALL BE DOCUMENTED PROPERLY.
- 9. ALL PIPES AND LAYOUT ARE DILLY DASSYAWAKTIC, ACTUAL LAYOUT OF IRPES AND FITTINGS, UNLESS OTHERWISE REQUIRED, SHALL BE PROPERLY DONCEALED.
- W. NO FIPES SHALL BE ALLOWED TO BE EMBEDDED IN STRUCTURAL MEMBERS, MY RRS GRAENWISE
- ALL PIPES, PITTINGS, EQUIPMENT AND PIXTURE SHALL PASS THE MINIMUM STANDARDS AS PER MATERIAL SPECIFICATION WITH THE SOAL OF APPRICAL BY THE DEPARTMENT OF TRADE AND BIOLISTIC
- ALL PIPES, FITTINGS, EQUIPMENT AND FIRTURES IS HILL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATION AND INSTRUCTION.
- 19. BUPPORT AND HANGERS SHALL BE INVENDED ACCORDINGES.
- ALL EQUIPMENT & PIKTUPES SHALL BE ENVIRONMENTAL PRIORDLY (BUCH AS WATER GER CIRNT FOXT-VHEST
- TE WATERLINE
- IS I WATERLINE IS ALL BE INTO TYPE.
- 16.8 GATE VALVE SHILL BE PRRITYPE OR APPROVED SOLIVALENT
- 15.6. HAZER METER SHALL BE ANY BRAND AND ACCEPTED BY THE WATER LITELITY COMPANIES.
- 16.4 ALL WATER PIPES EXPOSED TO WEATHER CONDITIONS HALL SE MADE OF GLI
- 16.1. ALL STORM DYWINGS SLOPE SHALL BE HETHNIGHTS TO PIL-
- HER. STORM DRAWAGE LINE BOOMER AND BLOW SHALL REPYC, (SIGNING & NEOVE IS HELL THE HEMPOPERED CONCRETE PIPE.
- (T. SEWER UNE
- 17.1. ALL SLOPES FOR SAWTARY SHALL CORPORATE SLOPE.
- TO BUILD WASTE, & YEAT PIPE BRALL BE (FOLLYWAY), DRUGHIDE PYC OR THE APPROVED EQUAL.
- TEST OF CHAIN OUTS MUST BE PROVIDED FOR SANTARY WERTHOUL THES AND EACH HERIZON FACTORIES SHALL BE PROVIDED RETRAICADED OUT AT ITS UPPOR TERMINAL, EVERY CHANGE IN ORIESTION AND EVERY JON OF A STRAIGHT PIPE, CLEANOUTS CAN HE ORITHST IF THE EFFECTIVE LENGTH I
- 17.4. ALL DRAMAGE FIXTURE SHALL BE SUPPLIED WITH APPROPRIATE VEHITLATION.

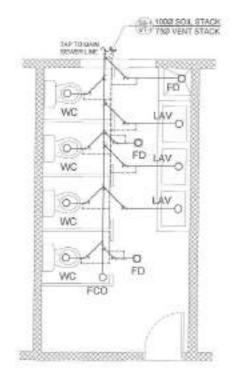
tis. FIXTURES

- 18.1. MATERICAGETS SHALL BE THEE STANDING TOLET COMBINATION, FIQURD FRONT BOTTOM DUTLET SIZE-KIN VORTEX OR WARHLOOMS BOAL WITH EXTRADED RELS SELF AND CLOSE. COUPLED FANK WITH COVER COMPLETE WITH FITTING AND MOUNT INS ACCESSORIES AND
- 18.3. LAWATORY SHALL BE VITREOUS CHIMA, WALL HUNG WITH HUNK OVERFLOW, POCKET LIMINEYS WITH INFEDRICE OF INA DIRACKET, COMPLETE WITH STANLESS STEEL LEVER TYPE HEAVY DUTY PAGEST, SUPPLY PIPES, IN THAP AND MOUNTING AGGESSOFIES.
- 1873. UMWAL SHALL BE VITTEDUS CHINA, WALL HUNG WASH-OUT LIRINAL WITH EXTENDED SHIELDS AND INTEGRAL PULISH REFRENCES, CONCESSUES MOSE HANGES PRODUCTS, YARM TOP GRUED DOMPLETE FITTING AND MODATING ACCESSORIES, INCLUDING URBUIL PRITTINGS.
- 95.4. GRAR SARS ISHAD, BE PROVIDED ON AUL PWO TOKET AND SHAD, BE WASK OF TUDIS AN ETABLESSE STEEL FIRST PROVINCE WITH SAPSTY (DRP JAND MICONTING PLANCE)
- THIS. IR CORPORATE SHALL BE MADE OF STARK ESSISTEFANE THRE MEASURING HOUSE X YOMAN AND PROMOTED WITH DET ROWALD STANLASSE STRANGER, EXPRODED METAL LATH TYPE.
- THE TOLET PAPERING DENISHAL BE WITHOUS CHINA WALL MOUNTED: DOLOR SHALL RECONCILE WITH THE ALLACENT FEETURE AND PACING TILES.
- 16.F. I SOAP HOLDER SHOUL BE VEREDUS CHINA WALL MOUNTED, COLOR SWILL RECOVERE WITH THE ADJACENT FEITURE AND FACING TILES.
- THIS PROJECT SHALL BE MADE OF STABLESIS STEEL LEVER TYPE HEAVY DUTY FOR INTERIOR USE.
- 10.0. HOSE 1905 SHALL BE MADE OF STAINLESS STICL LEVER TYPE HEXAY DUTY.
- 10.16. STEELEN SHIK FAUCET SHALL BE MADE OF STAINLESS STEEL LEVER TYPE SHAWY DATY 3 DOOR. NECKTYPE WITH ODMPLETE ADDESIGNALS.



PROPOSED WATER PROOFING

GROUND FLOOR MALE TOILET



NOTE:

PROPOSED WATER PROOFING

GENERAL NOTES

SANITARY LAYOUT(IMELDA BUILDING) PROJECT TRUE

SOALE 199m. PRECEDIMENSING WYTERMAL

GROUND FLOOR ALL GENDER TOILET 3 SANITARY LAYOUT (IMELDA BUILDING)

HEDDAHENDING APPROVED BY

SCALE 1 60m. SHEET MO.

Republicang Physics Large of the Country DEPARTMENT OF ENGINEERING

PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

BARANGAY SAN ROCKEL SISTRICT & CHESON CITY

000 RESIDENCE PROPERTY AND ADDRESS OF THE PARTY PEVEZONIO:

ENGR. FREIXSIEMEN III. III GUZDAN HEAD, PLYSPIC & SCHOOL STREET

STREET, STREET

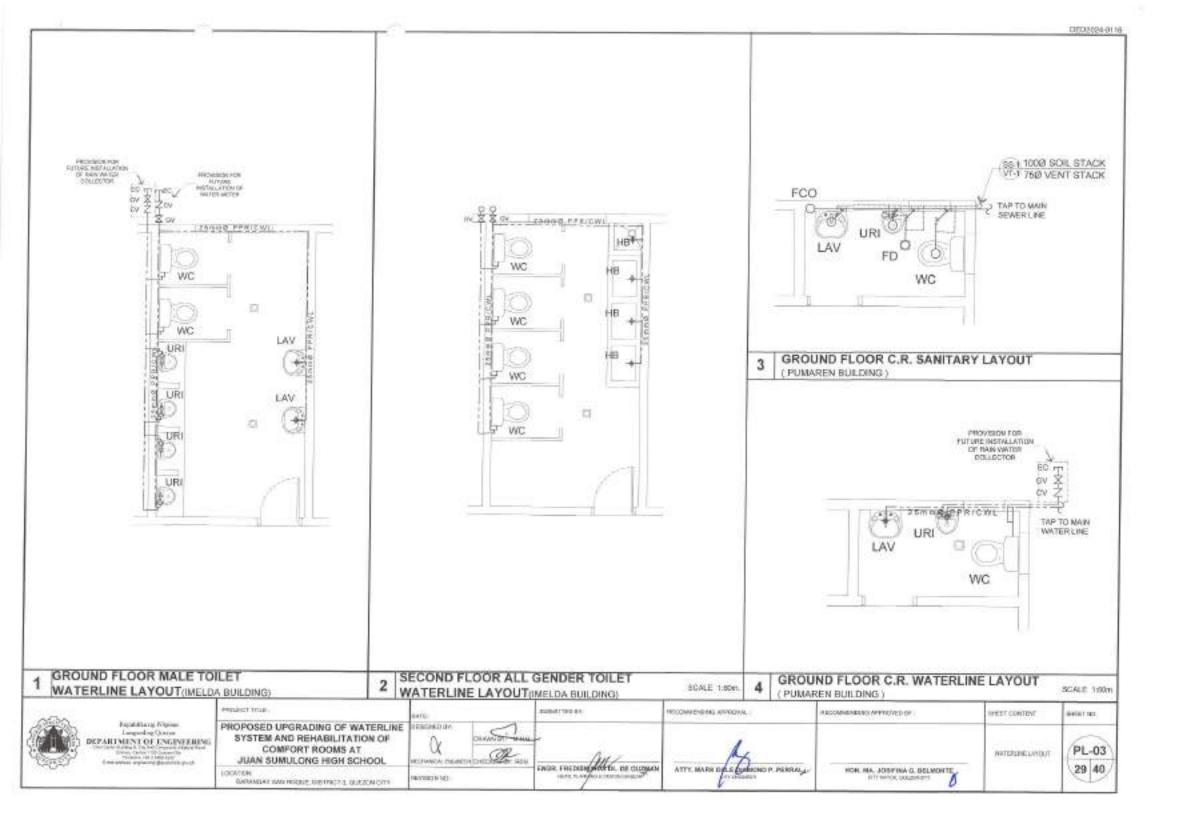
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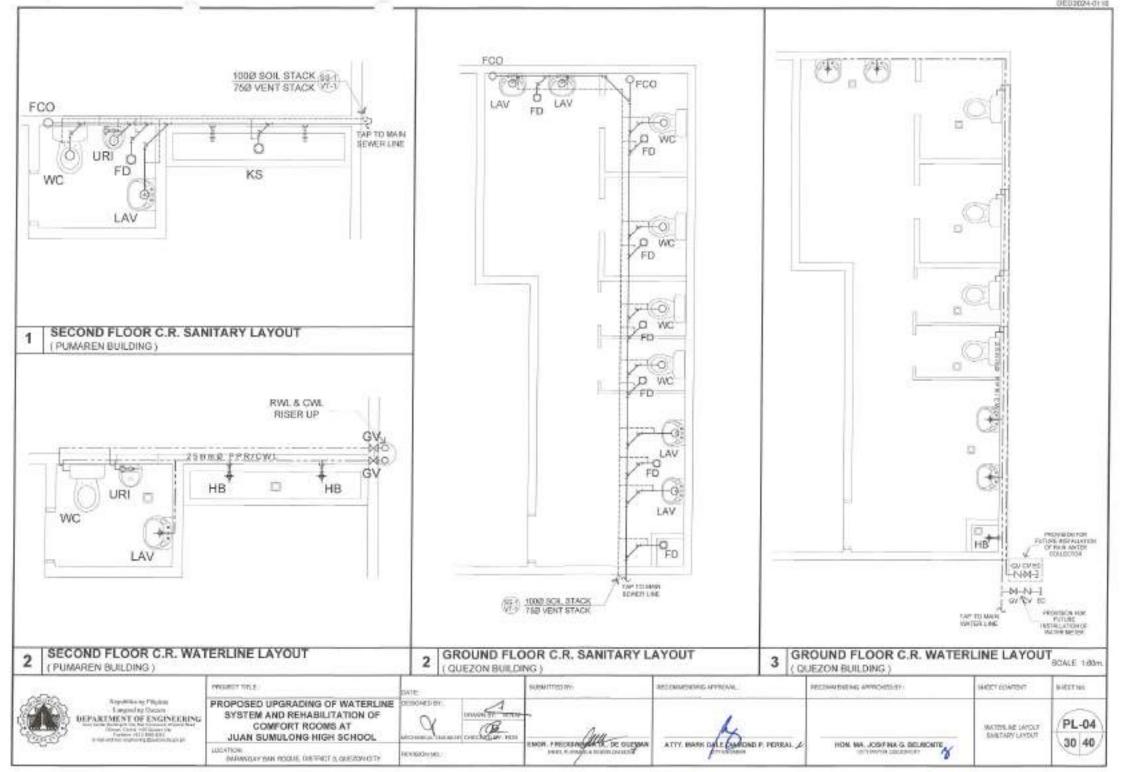
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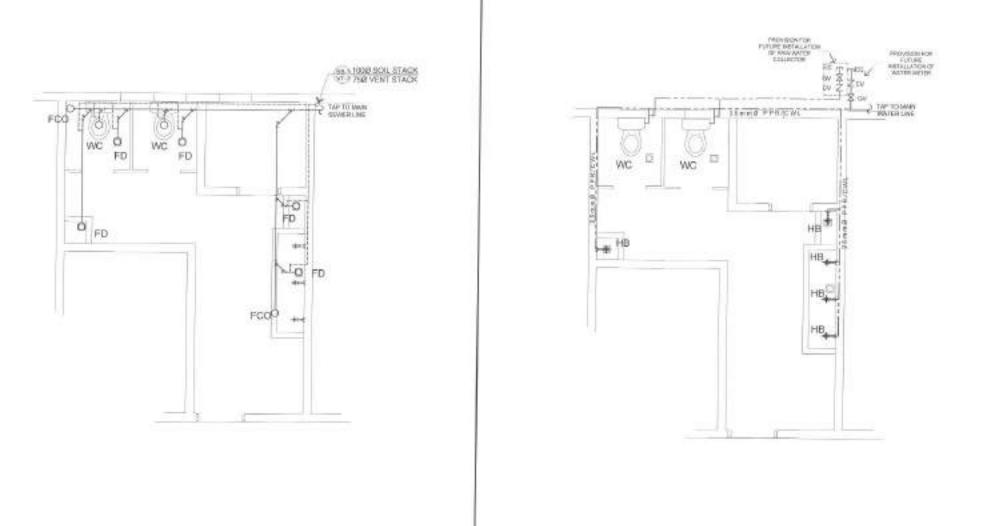
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1 GROUND FLOOR C.R. SANITARY LAYOUT (SHS BUILDING "A")

2 GROUND FLOOR C.R. WATERLINE LAYOUT

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ON TESSEE

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PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

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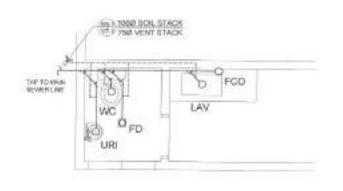
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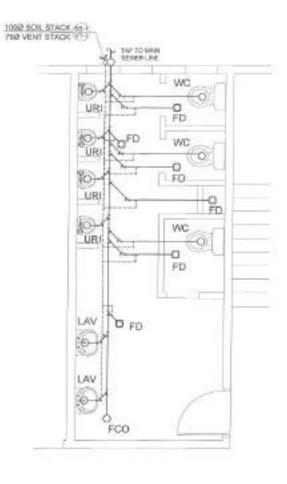
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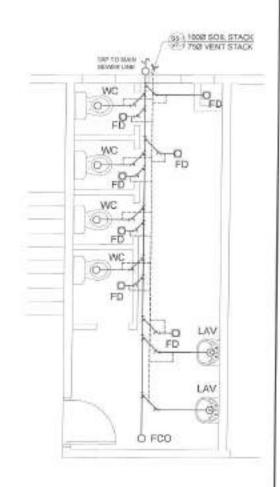




1 GROUND FLOOR C.R. SANITARY LAYOUT
(BANAL BUILDING)







2 TYPICAL GROUND, 2ND TO 3RD FLOOR C.R. SANITARY LAYOUT (ICT BUILDING)

SCALEVSI:

3 GROUND FLOOR MALE & FEMALE TOILET SANITARY LAYOUT(S.B. BUILDING)

SCALETAIN.

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Contyrolling Occord

DEPARTMENT OF ENGANEERING

Date of the Contyrolling October of the Conty

PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMPORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

BASANSAY SAVINGOUE, DISTRICT B, QUEZON CITY

DESCRIPTION DESCRIPTION OF THE PROPERTY OF THE

ENGR FRECHMAN IN THE GLOBAN

ATTY, MARM DALL SOMMOND P. PERRAL

RECOVERED BY JULY BOWL

HOM BA. JOSEPHA C. BELSKONTE

RECOMPLEMENTS APPROVED BY:

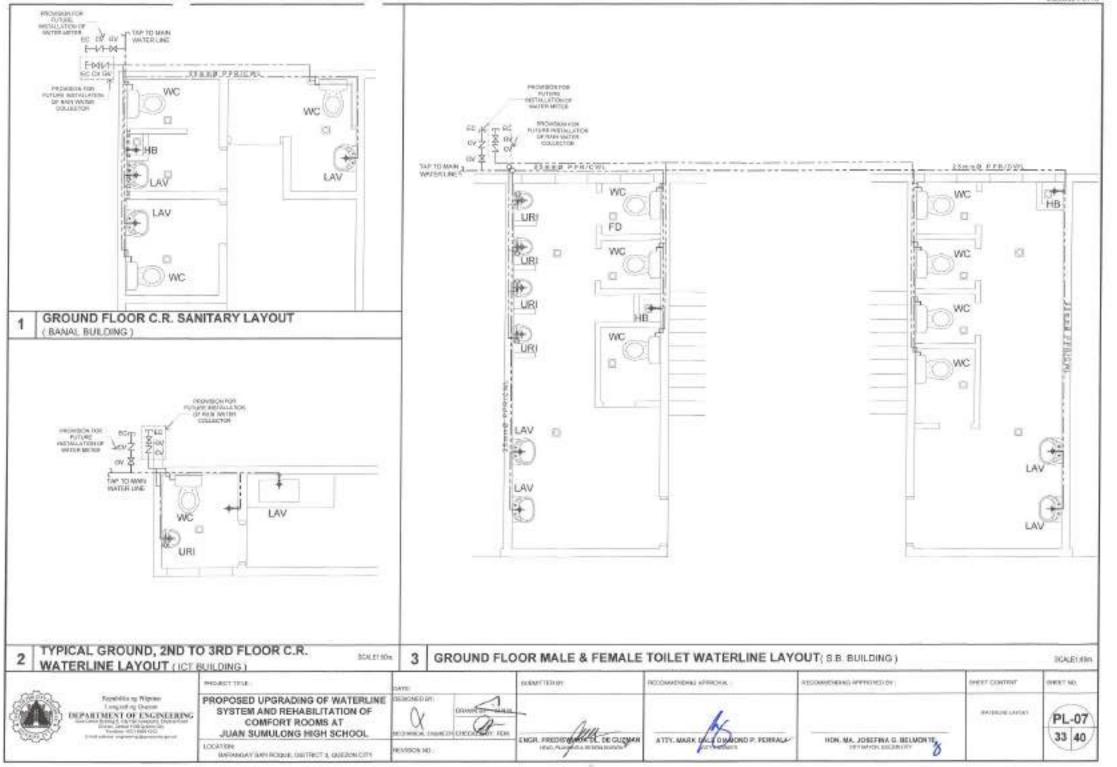
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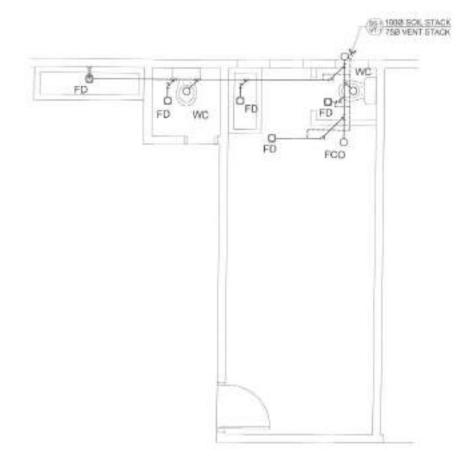
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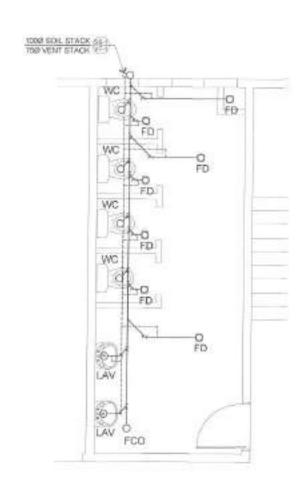
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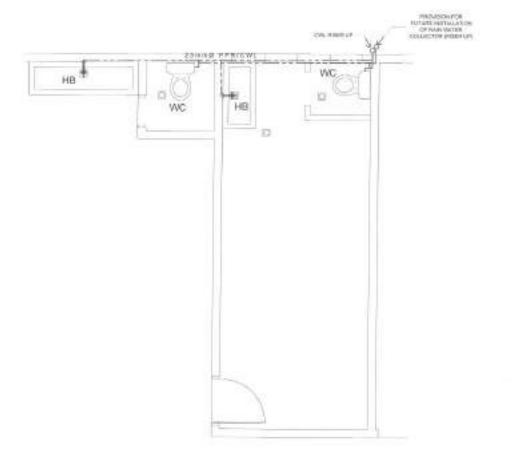


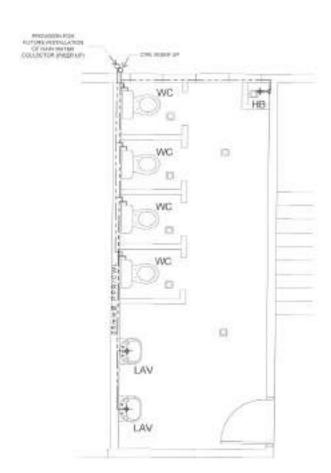






SECOND FLOOR MALE & FEMALE TOILET SANITARY LAYOUT SOUEH40n (S.B. BUILDING) PROBLETTER SUGMETTED DE PERCOMPRESENCE APPROVAL. RECEIVABLE AND APPROPRIES. MERT CONTRACT OFFICE NO. Republic of Phinas Language Decor DEPARTMENT OF ENGINEERING PROPOSED UPGRADING OF WATERLINE 00040450-64 DEMANDY. MAUR SYSTEM AND REHABILITATION OF BARDING LAYER! PL-08 COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL ENGR FREDIONNAME OF OLDSAM 34 40 ATTY, MARK COALE GUNCHO P. PERSOLA HOW, MA, JOSEFWA G, BELMONTE SECURED NO. MANAGAY SAM ROOME, DISTRICT X QUESTIN OF IT





1 SECOND FLOOR MALE & FEMALE TOILET WATERLINE LAYOUT

WITNESS.

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DEPARTMENT OF ENGINEERING

International Conference Department

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PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

BATANGAY SAN ROOME DISTRICT & GLEZONICITY

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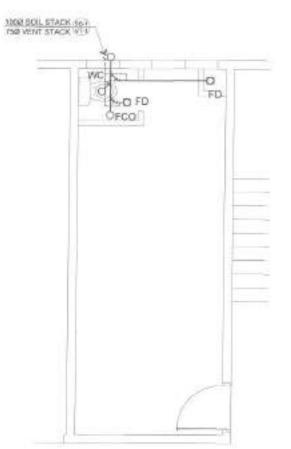
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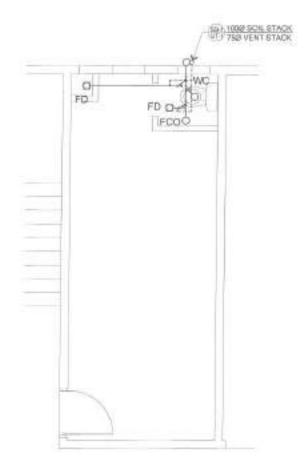
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RECOMMENDING APPROVISION:

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THIRD FLOOR MALE & FEMALE TOILET SANITARY LAYOUT (S.B. BUILDING)

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PROPOSED UPGRADING OF WATERLINE
SYSTEM AND REHABILITATION OF
COMFORT ROOMS AT
JUAN SUMULONG HIGH SCHOOL

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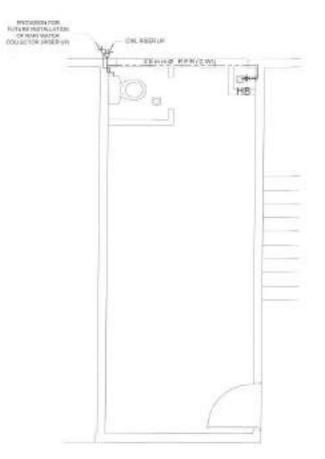
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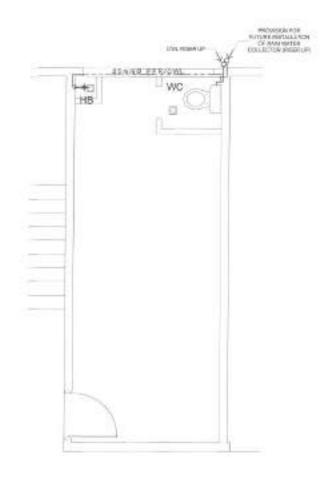
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THIRD FLOOR MALE & FEMALE TOILET WATERLINE LAYOUT

(S.B. BUILDING)

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PROJECT TITLE PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

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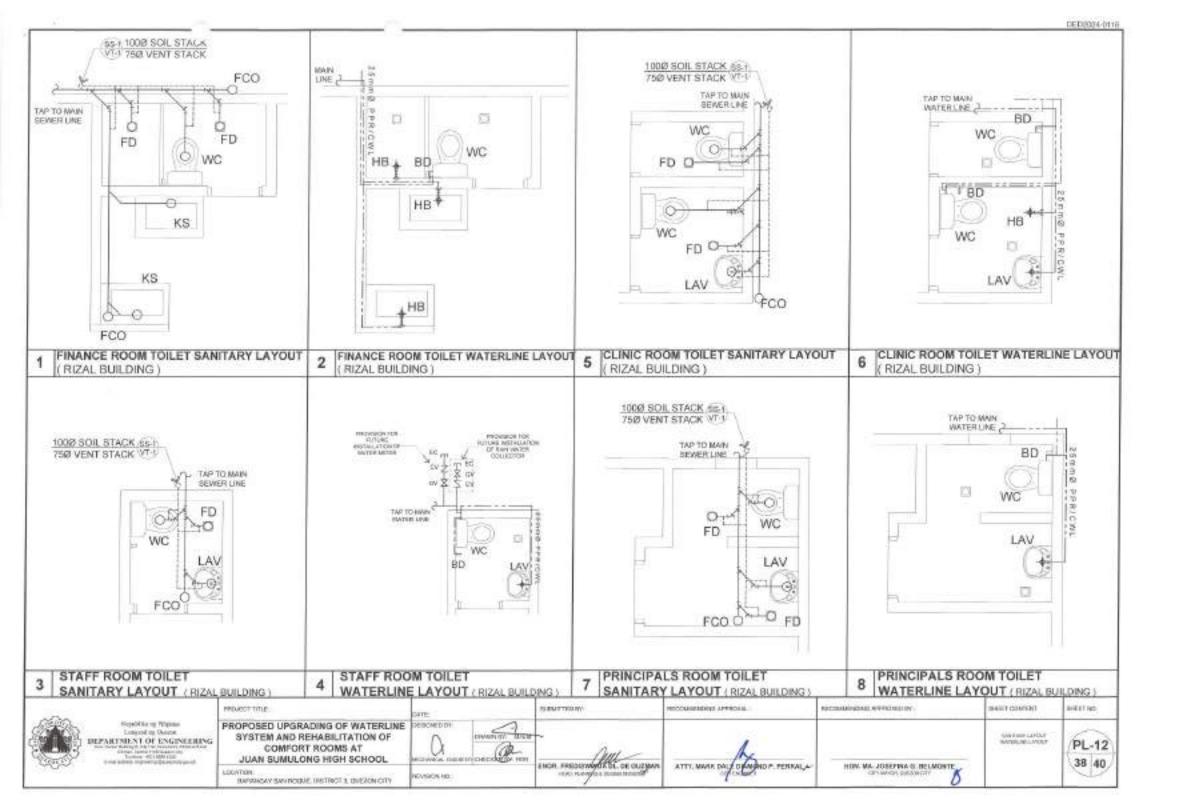
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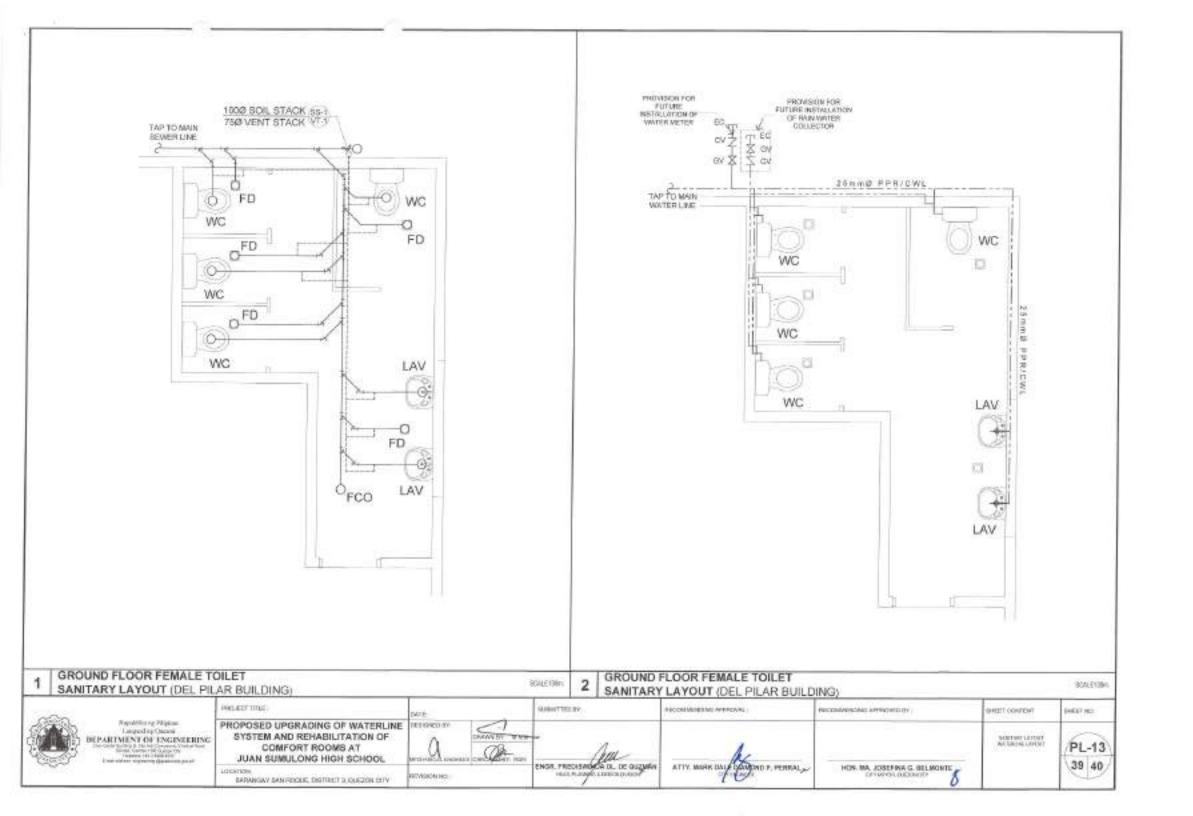
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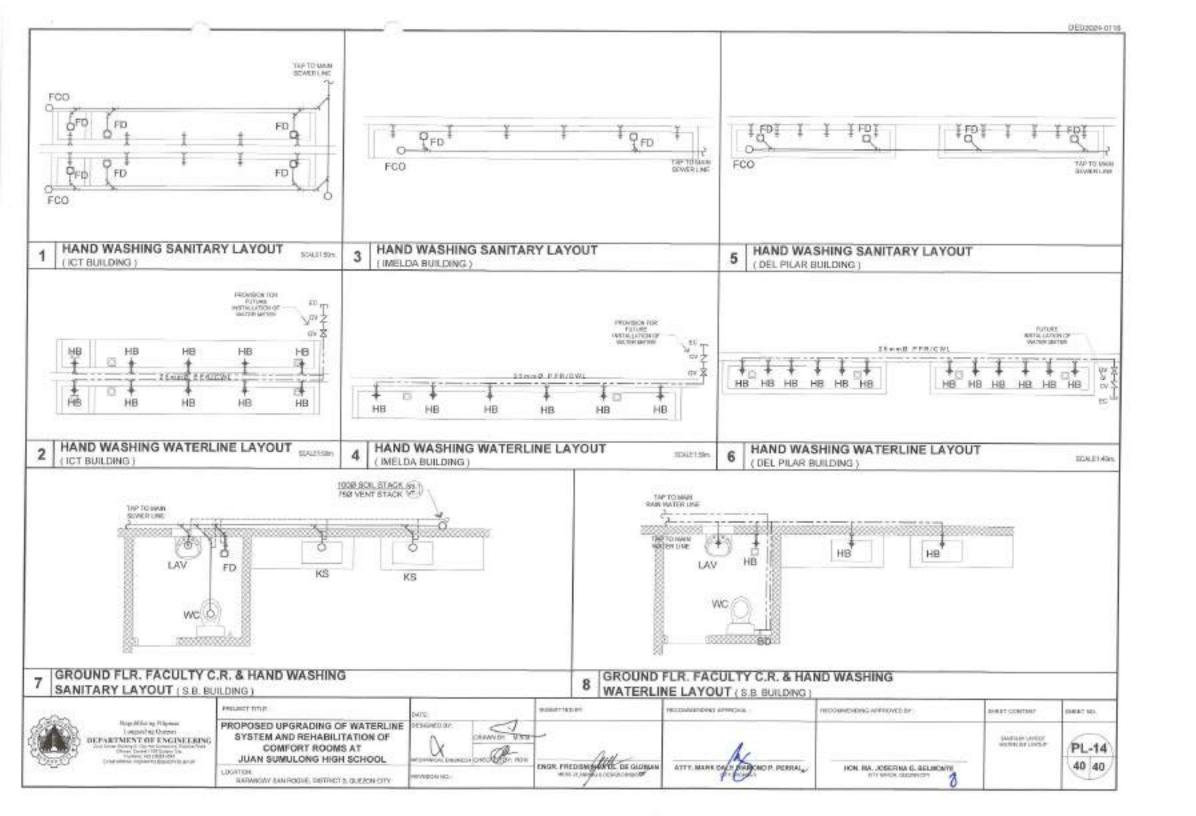
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Section VIII. Bill of Quantities

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 UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT

JUAN SUMULONG HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

PROJECT NO. : 24 - 00078

DURATION: One Hundred Fifty (150) Calendar Days

BREAKDOWN OF COST

ITEM NO.	DESCRIPTION	ESTIMATED DIDECT COST	TO	TAL MARK-UP	VAT	TOTAL INDIRECT COST	TOTAL COST
ITEM NO.	DESCRIPTION	ESTIMATED DIRECT COST	%	VALUE	VAI	TOTAL INDIRECT COST	TOTAL COST
PART I	OTHER GENERAL REQUIREMENTS						
PART II	IMELDA BUILDING (INCLUDING HANDWASHING)						
PART III	PUMAREN BUILDING						
PART IV	SHS BUILDING						
PART V	QUEZON BUILDING						
PART VI	BANAL BUILDING						
PART VII	ICT BUILDING (INCLUDING HANDWASHING)						
PART VIII	SB BUILDING						
PART IX	RIZAL BUILDING						
PART X	DEL PILAR BUILDING (INCLUDING HANDWASHING)						
	TOTAL						

TOTAL COST ₱_____

LUMP SUM BID IN WORDS :		
Contractor :		

Page 3 of 3 Bid Form

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT JUAN SUMULONG HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

PROJECT NO. : 24 - 00078

DURATION : One Hundred Fifty (150) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	LIMIT	ESTIMATED	MARK-	-UP IN %	TOTA	AL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
I I EW CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAI	COST	TOTAL COST	UNITCOST
PART I	OTHER GENERAL REQUIREMENTS											
B.5	Project Billboard/Signboard	1	each									
B.7(1)	Occupational Safety and Health Program	5	month									
B.9	Mobilization	1	unit									
B.9	Demobilization	1	unit									
	TOTAL OF PART I											
PART II	IMELDA BUILDING (INCLUDING HANDWASHING)											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART II.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	33	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	56	cu.m.									
	TOTAL OF PART II.A											
PART II.B	PLAIN AND REINFORCED CONCRETE WORKS											
803(1)c	Structure Excavation, Solid Rock	2	cu.m.									
804(4)	Gravel Fill	1	cu.m.									
900(2)c	Structural Concrete, 3000 psi, 28 days	3	cu.m.									
902(1)b	Reinforcing Steel (Deformed), Grade 60	87	kg.									
903(2)	Formworks and Falseworks	5	sq.m.									
1047(1)	Structural Steel (Pump House Enclosure)	431	kg.									
	TOTAL OF PART II.B											

				ESTIMATED	MARK-	UP IN %	ТОТ	AL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	ОСМ	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART II.C	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	33	sq.m.									
1008(1)c	Aluminum Glass Windows, Awning Type	2	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	8	set									
1010(2)a	Doors, Flush	11	sq.m.									
1013(2)a2	Fabricated Metal Roofing Accessory, Flashings	2	l.m.									
1014(2)b2	Prepainted Metal Sheets, Long Span, Rib Type	3	sq.m.									
1016(1)b	Waterproofing, Liquid	17	sq.m.									
1018(1)	Glazed Tiles and Trims	83	sq.m.									
1018(2)	Unglazed Tiles	33	sq.m.									
1021(3)a	Floor Topping, Plain	33	sq.m.									
1027(1)	Cement Plaster Finish	11	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	35	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	33	sq.m.									
1032(1)c	Painting Works, Steel (Pump House Enclosure)	23	sq.m.									
1046(2)a1	CHB Non-Load Bearing (including Reinforcing Steel), 100mm	7	sq.m.									
	TOTAL OF PART II.C											
PART II.D	PLUMBING / SANITARY WORKS											
. ,	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	16	l.m.									
1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	3	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	8	l.m.									
	WATER LINE WORKS											
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	53	l.m.									
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	8	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	6	l.m.									
1002 (2) e3	50mm Ø PPR Pipe and Fittings with Hanger/Support	4	l.m.									
1002 (2) f3	65mm Ø PPR Pipe and Fittings with Hanger/Support	3	l.m.									
1002 (2) 10	PLUMBING / SANITARY FIXTURES											
1002 (7)	Water Closet, Tank Type, Complete	6	set									
1002 (9) b	Urinal, Flash Valve, Complete	4	set									
1002 (14) a	Lavatory, Wall Hung, Complete	2	set									
1002 (11) a3	Floor Drain Plates, 100mmØ	10	рс									
1002 (10) a3	Hose Bibb	10	рс									
()	WATER PUMPING SYSTEM	.,	P**						1			
1201 (2)	Pneumatic (110 gal.)	1	set						1			
1201 (2)	Booster Pump with Control (2 HP)	2	set									
1201 (8)	Water Tank (1000 gallons)	1	set						+			
1201 (0)	VALVES AND APPURTANCES	<u> </u>	300									
1201 (12)	Valve and Pipe Fittings (25Ø Gate Valve)	5	рс						1			
1201 (12)	Valve and Pipe Fittings (65Ø Gate Valve)	4	рс						1			
1201 (12)	Valve and Pipe Fittings (25Ø Check Valve)	3	рс									
1201 (12)	Valve and Pipe Fittings (25% Check Valve)	2	рс						+			
1201 (12)	TOTAL OF PART II.D		PC									
	TOTAL OF FART II.D											

				ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART II.E	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100 (6) a	20mmØ PVC Pipe	9	piece									
1100 (2) a	15mmØ IMC Pipe	11	piece									
1100	20mmØ PVC Elbow	8	piece									
1100	15mmØ IMC Elbow	4	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire and 2.0mm² THW Wire	52	l.m.									
1101	5.5mm² THHN Wire and 3.5mm² THW Wire	64	l.m.									
1101 (3)	Two Gang Switch	2	piece									
, ,	PANELBOARD WITH MAIN AND BRANCH BREAKERS											
1102	ECB, 40AT, 2P	1	piece									
1102	ECB, 30AT, 2P	2	piece						+			
1102	LIGHTING FIXTURES AND LAMPS		piece						+			
1103 (2)	T8, 18w LED, Box type with Tube Light	4	piece						+			
1103 (2)	TOTAL OF PART II.E	7	piece						+			
									+			
	TOTAL OF PART II											
PART III	PUMAREN BUILDING											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART III.A	REMOVAL OF STRUCTURES AND											
800(1)	Clearing and Grubbing	68	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	56	cu.m.									
	TOTAL OF PART III.A											
PART III.B	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	66	sq.m.									
1008(1)c	Aluminum Glass Windows, Awning Type	1	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	2	set									
1010(2)a	Doors, Flush	4	sq.m.									
1013(2)a2	Fabricated Metal Roofing Accessory, Flashings	25	l.m.									
1014(2)b2	Prepainted Metal Sheets, Long Span, Rib Type	62	sq.m.									
1016(1)b	Waterproofing, Liquid	3	sq.m.									
1018(1)	Glazed Tiles and Trims	32	sq.m.									
1018(2)	Unglazed Tiles	7	sq.m.								·	
1021(3)a	Floor Topping, Plain	7	sq.m.									
1027(1)	Cement Plaster Finish	5	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	9	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	62	sq.m.									
	TOTAL OF PART III.B											

				ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	T	TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART III.C	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	13	l.m.									
1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	3	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	9	l.m.									
	WATER LINE WORKS											
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	16	l.m.									
	PLUMBING / SANITARY FIXTURES											
1002 (7)	Water Closet, Tank Type, Complete	2	set									
1002 (9) b	Urinal, Flash Valve, Complete	2	set									
1002 (14) a	Lavatory, Wall Hung, Complete	2	set									
1002 (16) a3	Floor Drain Plates, 100mmØ	3	рс									
1002 (22)	Hose Bibb	3	рс									
	VALVES AND APPURTANCES											
1201 (12)	Valve and Pipe Fittings (25Ø Gate Valve)	3	рс									
1201 (12)	Valve and Pipe Fittings (25Ø Check Valve)	1	рс									
	TOTAL OF PART III.C											
PART III.D	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100 (6) a	20mmØ PVC Pipe	3	piece									
1100	20mmØ PVC Elbow	6	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire and 2.0mm² THW Wire	14	l.m.									
1101 (3)	One Gang Switch	2	piece									
	LIGHTING FIXTURES AND LAMPS											
1103 (2)	Keyless Receptacle with 8W LED Bulb	2	piece									
	TOTAL OF PART III.D											
	TOTAL OF PART III											
PART IV	SHS BUILDING											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART IV.A	REMOVAL OF STRUCTURES AND											
800(1)	Clearing and Grubbing	16	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	25	cu.m.									
	TOTAL OF PART IV.A											

PART IV.B		1		ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	T	TOTAL INDIRECT		
1008(1)c Aluminum Glass Window 1010(1) Frames (Jambs, Sill, Hear 1010(2)a Doors, Flush 1018(2) Unglazed Tiles and Trims 1018(2) Unglazed Tiles and Trims 1021(3)a Floor Topping, Plain 1027(1) Cement Plaster Finish 1032(1)a Painting Works, Masonry TOTAl PART IV.C PLUMBING SEWE 1001 (1) a5 50mm Ø PVC Pipe and F 1001 (1) a6 75mm Ø PVC Pipe and F 1001 (1) a7 100mm Ø PVC Pipe and F 1002 (2) b3 25mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) c3 50mm Ø PPR Pipe and F 1002 (2) c3	M CODE DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
1008(1)c Aluminum Glass Window 1010(1) Frames (Jambs, Sill, Hear 1010(2)a Doors, Flush 1018(2) Unglazed Tiles and Trims 1021(3)a Floor Topping, Plain 1027(1) Cement Plaster Finish TOTAl Part IV.C PLUMBING SEWE 1001 (1) a5 50mm Ø PVC Pipe and F 1001 (1) a6 75mm Ø PVC Pipe and F 1001 (1) a7 100mm Ø PVC Pipe and F 1002 (2) b3 25mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d5 1002 (2)	RT IV.B FINISHING AND OTHER CIVIL WORKS					1110111	70					
1010(1) Frames (Jambs, Sill, Heat 1010(2)a Doors, Flush 1018(1) Glazed Tiles and Trims 1018(2) Unglazed Tiles and Trims 1021(3)a Floor Topping, Plain 1027(1) Cement Plaster Finish TOTAl Part IV.C PLUMBING SEWE 1001 (1) a5 50mm Ø PVC Pipe and F 1001 (1) a6 75mm Ø PVC Pipe and F 1001 (1) a7 100mm Ø PVC Pipe and F 1002 (2) b3 25mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (16) a3 Floor Drain Plates, 100m 1002 (22) Hose Bibb VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (3 1201 (12) Valve and Pipe Fittings (4 1201 (12) Valve and Pipe Fittings (5 1201 (12) Valve and Pipe Fittings (6 TOTAl PART IV.D ELECT CONDUITS, E 1100 (6) a 20mmØ PVC Pipe 1100 20mmØ PVC Elbow WIRES AN VISTANT 1000 (200 (200 (200 (200 (200 (200 (200		2	sq.m.									
1010(2)a Doors, Flush 1018(1) Glazed Tiles and Trims 1018(2) Unglazed Tiles 1021(3)a Floor Topping, Plain 1027(1) Cement Plaster Finish 1032(1)a Painting Works, Masonry TOTAl PART IV.C PLUMBING SEWE 1001 (1) a5 50mm Ø PVC Pipe and F 1001 (1) a6 75mm Ø PVC Pipe and F 1001 (1) a7 100mm Ø PVC Pipe and F 1002 (2) b3 25mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (16) a3 Floor Drain Plates, 100m 1002 (22) Hose Bibb VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (3 1201 (12) Valve and Pipe Fittings (4 1201 (12) Valve and Pipe Fittings (5 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (7 1201	()	4	set									
1018(1) Glazed Tiles and Trims 1018(2) Unglazed Tiles 1021(3)a Floor Topping, Plain 1027(1) Cement Plaster Finish 1032(1)a Painting Works, Masonry TOTAL PART IV.C PLUMBING SEWE 1001 (1) a5 50mm Ø PVC Pipe and F 1001 (1) a6 75mm Ø PVC Pipe and F 1001 (1) a7 100mm Ø PVC Pipe and F 1002 (2) b3 25mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (7) Water Closet, Tank Type 1002 (16) a3 Floor Drain Plates, 100m 1002 (22) Hose Bibb VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (3 1201 (12) Valve and Pipe Fittings (4 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valv		6	sq.m.									
1018(2)	· /	33	sq.m.									
1021(3)a Floor Topping, Plain 1027(1) Cement Plaster Finish 1032(1)a Painting Works, Masonry TOTAI PART IV.C PLUMBING SEWE 1001 (1) a5 50mm Ø PVC Pipe and F 1001 (1) a6 75mm Ø PVC Pipe and F 1001 (1) a7 100mm Ø PVC Pipe and F 1002 (2) b3 25mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (16) a3 Floor Drain Plates, 100m 1002 (22) Hose Bibb VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (3 1201 (12) Valve and Pipe Fittings (4 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (7 1201 (12) Valve and Pipe Fittings (7 1201 (12) Valve and Pipe Fittings (8 1201 (12) Valve and Pipe Fittings (9 1201 (12) Valve and Pipe Fittings (9 1201 (12) Valve and Pipe Fittings (1201 (12) Valve and Pipe Fitt	()	16	sq.m.									
1027(1) Cement Plaster Finish 1032(1)a Painting Works, Masonry TOTAI PART IV.C PLUMBING SEWE 1001 (1) a5 50mm Ø PVC Pipe and F 1001 (1) a6 75mm Ø PVC Pipe and F 1001 (1) a7 100mm Ø PVC Pipe and F 1002 (2) b3 25mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (2) d3 65mm Ø PPR Pipe and F 1002 (16) a3 Floor Drain Plates, 100m 1002 (22) Hose Bibb VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (3 1201 (12) Valve and Pipe Fittings (4 1201 (12) Valve and Pipe Fittings (5 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (7 1201 (12) Valve and Pipe Fitting		16	sq.m.									
1032(1)a Painting Works, Masonry TOTAI		9	sq.m.									
TOTAI PART IV.C PLUMBING SEWE 1001 (1) a5 50mm Ø PVC Pipe and F 1001 (1) a6 75mm Ø PVC Pipe and F 1001 (1) a7 100mm Ø PVC Pipe and F 1002 (2) b3 25mm Ø PPR Pipe and F 1002 (2) c3 32mm Ø PPR Pipe and F 1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) d3 50mm Ø PPR Pipe and F 1002 (2) f3 65mm Ø PPR Pipe and F 1002 (7) Water Closet, Tank Type 1002 (16) a3 Floor Drain Plates, 100m 1002 (22) Hose Bibb VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (3 1201 (12) Valve and Pipe Fittings (4 1201 (12) Valve and Pipe Fittings (5 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (7 1201 (12) Valve and Pipe Fittings (8 1201 (12) Va	· · ·	64	sq.m.									
SEWE	TOTAL OF PART IV.B		·									
SEWE	RT IV.C PLUMBING / SANITARY WORKS											
1001 (1) a6	SEWER LINE WORKS											
1001 (1) a6	01 (1) a5 50mm Ø PVC Pipe and Fittings with Hanger/Support	15	I.m.									
WATE		3	l.m.									
1002 (2) b3 25mm Ø PPR Pipe and F	01 (1) a7 100mm Ø PVC Pipe and Fittings with Hanger/Support	13	l.m.									
1002 (2) c3 32mm Ø PPR Pipe and F	WATER LINE WORKS											
1002 (2) d3 40mm Ø PPR Pipe and F 1002 (2) e3 50mm Ø PPR Pipe and F 1002 (2) f3 65mm Ø PPR Pipe and F PLUMBING / 1002 (7) Water Closet, Tank Type 1002 (16) a3 Floor Drain Plates, 100m 1002 (22) Hose Bibb VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and	02 (2) b3 25mm Ø PPR Pipe and Fittings with Hanger/Support	26	l.m.									
1002 (2) e3 50mm Ø PPR Pipe and F	02 (2) c3 32mm Ø PPR Pipe and Fittings with Hanger/Support	8	l.m.									
1002 (2) f3 65mm Ø PPR Pipe and F	02 (2) d3 40mm Ø PPR Pipe and Fittings with Hanger/Support	6	l.m.									
PLUMBING /	02 (2) e3 50mm Ø PPR Pipe and Fittings with Hanger/Support	4	l.m.									
1002 (7) Water Closet, Tank Type	02 (2) f3 65mm Ø PPR Pipe and Fittings with Hanger/Support	3	l.m.									
1002 (16) a3 Floor Drain Plates, 100m	PLUMBING / SANITARY FIXTURES											
1002 (22) Hose Bibb VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (3 1201 (12) Valve and Pipe Fittings (6 TOTAL PART IV.D ELECT CONDUITS, E 1100 (6) a 20mmØ PVC Pipe 1100 20mmØ PVC Elbow WIRES AN	002 (7) Water Closet, Tank Type, Complete	2	set									
VALVES A 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (3 1201 (12) Valve and Pipe Fittings (4 1201 (12) Valve and Pipe Fittings (6 TOTAL PART IV.D ELECT CONDUITS, E 1100 (6) a 20mmØ PVC Pipe 1100 20mmØ PVC Elbow WIRES AN	02 (16) a3 Floor Drain Plates, 100mmØ	5	рс									
1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (6 TOTAI PART IV.D ELECT CONDUITS, E 1100 (6) a 20mmØ PVC Pipe 1100 1100 WIRES AN	002 (22) Hose Bibb	5	рс									
1201 (12) Valve and Pipe Fittings (6 1201 (12) Valve and Pipe Fittings (2 1201 (12) Valve and Pipe Fittings (6 TOTAI PART IV.D ELECT CONDUITS, E 1100 (6) a 20mmØ PVC Pipe 1100 1100 WIRES AN	VALVES AND APPURTANCES											
1201 (12)	(12) Valve and Pipe Fittings (25Ø Gate Valve)	2	рс									
1201 (12) Valve and Pipe Fittings (6 TOTAI		4	рс									
TOTAI PART IV.D ELECT CONDUITS, E 1100 (6) a 20mmØ PVC Pipe 1100 20mmØ PVC Elbow WIRES AN		2	рс									
PART IV.D ELECT CONDUITS, E 1100 (6) a 20mmØ PVC Pipe 1100 20mmØ PVC Elbow WIRES AN		2	рс									
CONDUITS, E 1100 (6) a 20mmØ PVC Pipe 1100 20mmØ PVC Elbow WIRES AN	TOTAL OF PART IV.C											
1100 (6) a 20mmØ PVC Pipe 1100 20mmØ PVC Elbow WIRES AN	RT IV.D ELECTRICAL WORKS											
1100 20mmØ PVC Elbow WIRES AN	CONDUITS, BOXES AND FITTINGS											
WIRES AN	.00 (6) a 20mmØ PVC Pipe	4	piece									
		4	piece									
1101 3.5mm² THHN Wire and	WIRES AND WIRING DEVICES											
	1101 3.5mm² THHN Wire and 2.0mm² THW Wire	22	l.m.		•							
1101 (3) Two Gang Switch		1	piece									
	LIGHTING FIXTURES AND LAMPS											
	()	2	piece									
TOTAL	TOTAL OF PART IV.D											
TOTA	TOTAL OF PART IV											

				ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	<u> </u>	TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	ОСМ	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART V	QUEZON BUILDING											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART V.A	REMOVAL OF STRUCTURES AND											
800(1)	Clearing and Grubbing	33	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	53	cu.m.									
	TOTAL OF PART V.A											
PART V.B	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	33	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	5	set									
1010(2)a	Doors, Flush	6	sq.m.									
1018(1)	Glazed Tiles and Trims	77	sq.m.									
1018(2)	Unglazed Tiles	33	sq.m.									
1021(3)a	Floor Topping, Plain	33	sq.m.									
1027(1)	Cement Plaster Finish	9	sq.m.									
	Painting Works, Masonry/Concrete	43	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	33	sq.m.									
	TOTAL OF PART V.B											
PART V.C	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
	50mm Ø PVC Pipe and Fittings with Hanger/Support	15	l.m.									
1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	3	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	13	l.m.									
	WATER LINE WORKS											
()	25mm Ø PPR Pipe and Fittings with Hanger/Support	33	l.m.									
	32mm Ø PPR Pipe and Fittings with Hanger/Support	8	l.m.									
	40mm Ø PPR Pipe and Fittings with Hanger/Support	6	l.m.									
	50mm Ø PPR Pipe and Fittings with Hanger/Support	4	l.m.									
1002 (2) f3	65mm Ø PPR Pipe and Fittings with Hanger/Support	3	l.m.									
	PLUMBING / SANITARY FIXTURES											
. ,	Water Closet, Tank Type, Complete	4	set									
1002 (14) a	Lavatory, Wall Hung, Complete	4	set									
. ,	Floor Drain Plates, 100mmØ	7	рс									
1002 (22)	Hose Bibb	1	рс						1			
	VALVES AND APPURTANCES								1			
1201 (12)	Valve and Pipe Fittings (25Ø Gate Valve)	2	рс						1			
	Valve and Pipe Fittings (65Ø Gate Valve)	4	рс									
	Valve and Pipe Fittings (25Ø Check Valve)	2	рс									
1201 (12)	Valve and Pipe Fittings (65Ø Check Valve)	2	рс						1			
	TOTAL OF PART V.C											

				ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	l	TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	ОСМ	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART V.D	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100 (6) a	20mmØ PVC Pipe	52	piece									
1100	20mmØ PVC Elbow	2	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire and 2.0mm² THW Wire	52	l.m.									
1101 (3)	Two Gang Switch	2	piece									
	LIGHTING FIXTURES AND LAMPS											
1103 (2)	T8, 18w LED, Box type with Tube Light	4	piece									
	TOTAL OF PART V.D											
	TOTAL OF PART V											
PART VI	BANAL BUILDING											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART VI.A	REMOVAL OF STRUCTURES AND											
800(1)	Clearing and Grubbing	13	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	27	cu.m.									
. ,	TOTAL OF PART VI.A											
PART VI.B	PLAIN AND REINFORCED CONCRETE WORKS											
803(1)c	Structure Excavation, Solid Rock	2	cu.m.									
804(4)	Gravel Fill	1	cu.m.									
900(2)c	Structural Concrete, 3000 psi, 28 days	3	cu.m.									
902(1)b	Reinforcing Steel (Deformed), Grade 60	87	cu.m.									
903(2)	Formworks and Falseworks	5	sq.m.									
1047(1)	Structural Steel (Pump House Enclosure)	431	kg.									
	TOTAL OF PART IV.B											
PART VI.C	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	13	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	3	set									
1010(2)a	Doors, Flush	6	sq.m.									
1013(2)a2	Fabricated Metal Roofing Accessory, Flashings	2	l.m.									
1014(2)b2	Prepainted Metal Sheets, Long Span, Rib Type	3	sq.m.									
1018(1)	Glazed Tiles and Trims	43	sq.m.									
1018(2)	Unglazed Tiles	13	sq.m.									
1021(3)a	Floor Topping, Plain	13	sq.m.									
1027(1)	Cement Plaster Finish	5	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	40	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	13	sq.m.									
1032(1)c	Painting Works, Steel (Pump House Enclosure)	23	sq.m.									
	TOTAL OF PART VI.C											

	DECODINE OU	0114117171		ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART VI.D	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	12	l.m.									
1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	3	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	10	l.m.									
	WATER LINE WORKS											
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	17	l.m.									
	PLUMBING / SANITARY FIXTURES											
1002 (7)	Water Closet, Tank Type, Complete	3	set									
1002 (14) a	Lavatory, Wall Hung, Complete	3	set									
1002 (16) a3	Floor Drain Plates, 100mmØ	5	рс									
1002 (22)	Hose Bibb	1	рс									
	WATER PUMPING SYSTEM											
1201 (2)	Pneumatic (120 gal.)	1	set									
1201 (6)	Booster Pump with Control (2 HP)	2	set									
1201 (8)	Water Tank (1700 gallons)	1	set									
	VALVES AND APPURTANCES											
1201 (12)	Valve and Pipe Fittings (25Ø Gate Valve)	2	рс									
1201 (12)	Valve and Pipe Fittings (25Ø Check Valve)	2	рс									
	TOTAL OF PART VI.D											
PART VI.E	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100 (6) a	20mmØ PVC Pipe	10	piece									
1100 (2) a	15mmØ IMC Pipe	11	piece									
1100	20mmØ PVC Elbow	6	piece									
1100	15mmØ IMC Elbow	4	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire and 2.0mm² THW Wire	60	l.m.									
1101	5.5mm² THHN Wire and 3.5mm² THW Wire	64	l.m.									
1101 (3)	One Gang Switch	3	piece									
	PANELBOARD WITH MAIN AND BRANCH BREAKERS											
1102	ECB, 40AT, 2P	1	piece									
1102	ECB, 30AT, 2P	2	piece									
	LIGHTING FIXTURES AND LAMPS											
1103 (2)	Keyless Receptacle with 8W LED Bulb	3	piece									
	TOTAL OF PART VI.E											
	TOTAL OF PART VI											

	DECODINE SALE	A		ESTIMATED	MARK-	-UP IN %	TOT	AL MARK-UP	1	TOTAL INDIRECT	T0711 0007	
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
DADT VII	ICT PUIL DING (INCLUDING HANDWASHING)											
PART VII	ICT BUILDING (INCLUDING HANDWASHING)											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART VII.A	REMOVAL OF STRUCTURES AND											
800(1)	Clearing and Grubbing	8	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	26	cu.m.									
	TOTAL OF PART VII.A											
PART VII.B	FINISHING AND OTHER CIVIL WORKS											
	Ceiling, 6mm, Metal Frame, Fiber Cement Board	8	sq.m.									
	Aluminum Glass Windows, Awning Type	2	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	3	set									
1010(2)a	Doors, Flush	6	sq.m.									
1016(1)b	Waterproofing, Liquid	5	sq.m.									
1018(1)	Glazed Tiles and Trims	46	sq.m.									
()	Unglazed Tiles	8	sq.m.									
	Floor Topping, Plain	8	sq.m.									
1027(1)	Cement Plaster Finish	7	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	10	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	8	sq.m.									
	TOTAL OF PART VII.B											
PART VII.C	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
` '	50mm Ø PVC Pipe and Fittings with Hanger/Support	26	l.m.									
. ,	75mm Ø PVC Pipe and Fittings with Hanger/Support	6	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	12	l.m.									
	WATER LINE WORKS											
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	22	l.m.									
	PLUMBING / SANITARY FIXTURES								1			
. ,	Water Closet, Tank Type, Complete	3	set						1			
. ,	Urinal, Flash Valve, Complete	3	set						1			
. ,	Floor Drain Plates, 100mmØ	10	рс									
1002 (22)	Hose Bibb	14	рс									
	VALVES AND APPURTANCES								1			
1201 (12)	Valve and Pipe Fittings (25Ø Gate Valve)	5	рс						1			
1201 (12)	Valve and Pipe Fittings (25Ø Check Valve)	5	рс						1			
D. D. D. T. T. T.	TOTAL OF PART VII.C											
PART VII.D	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS	0.0										
	20mmØ PVC Pipe	20	piece						1			
1100	20mmØ PVC Elbow	6	piece									
4121	WIRES AND WIRING DEVICES	00							1			
1101	3.5mm² THHN Wire and 2.0mm² THW Wire	30	l.m.						-			
1101 (3)	One Gang Switch	3	piece						1			
1100 (0)	LIGHTING FIXTURES AND LAMPS								-			
1103 (2)	Keyless Receptacle with 8W LED Bulb	3	piece						1			
	TOTAL OF PART VII.D								1			
	TOTAL OF PART VII											

ITEM CODE	DESCRIPTION	OHANTITY	UNIT	ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	WAT	TOTAL INDIRECT	TOTAL COST	LINIT COST
ITEM CODE	DESCRIPTION	QUANTITY	UNII	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART VIII	SB BUILDING											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART VIII.A	REMOVAL OF STRUCTURES AND											
800(1)	Clearing and Grubbing	128	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	208	cu.m.									
	TOTAL OF PART VIII.A											
PART VIII.B	PLAIN AND REINFORCED CONCRETE WORKS											
803(1)c	Structure Excavation, Solid Rock	2	cu.m.									
804(4)	Gravel Fill	1	cu.m.									
900(2)c	Structural Concrete, 3000 psi, 28 days	3	cu.m.									
902(1)b	Reinforcing Steel (Deformed), Grade 60	87	cu.m.									
903(2)	Formworks and Falseworks	5	sq.m.									
1047(1)	Structural Steel (Pump House Enclosure)	431	kg.									
	TOTAL OF PART VIII.B											
PART VIII.C	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	126	sq.m.									
1008(1)c	Aluminum Glass Windows, Awning Type	10	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	21	set									
1010(2)a	Doors, Flush	28	sq.m.									
1013(2)a2	Fabricated Metal Roofing Accessory, Flashings	2	l.m.									
1014(2)b2	Prepainted Metal Sheets, Long Span, Rib Type	3	sq.m.									
1016(1)b	Waterproofing, Liquid	46	sq.m.									
1018(1)	Glazed Tiles and Trims	240	sq.m.									
1018(2)	Unglazed Tiles	128	sq.m.									
1021(3)a	Floor Topping, Plain	128	sq.m.									
1027(1)	Cement Plaster Finish	41	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	196	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	126	sq.m.									
1032(1)c	Painting Works, Steel (Pump House Enclosure)	23	sq.m.									
	TOTAL OF PART VIII.C											

				ESTIMATED	MARK.	UP IN %	TOT	AL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART VIII.D	PLUMBING / SANITARY WORKS					1110111	,,	11.12.2				
. ,	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	77	l.m.									
	75mm Ø PVC Pipe and Fittings with Hanger/Support	12	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	69	l.m.									
()	WATER LINE WORKS											
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	74	l.m.									
	PLUMBING / SANITARY FIXTURES											
1002 (7)	Water Closet, Tank Type, Complete	15	set									
1002 (7)	Water Closet, Tank Type with Bidet, Complete	1	set									
1002 (9) b	Urinal, Flash Valve, Complete	4	set									
1002 (14) a	Lavatory, Wall Hung, Complete	7	set									
1002 (16) a3	Floor Drain Plates, 100mmØ	34	рс									
1002 (22)	Hose Bibb	10	рс									
	WATER PUMPING SYSTEM											
1201 (2)	Pneumatic (110 gal.)	1	set									
1201 (6)	Booster Pump with Control (2 HP)	2	set									
1201 (8)	Water Tank (1000 gallons)	1	set									
	VALVES AND APPURTANCES											
1201 (12)	Valve and Pipe Fittings (25Ø Gate Valve)	2	рс									
1201 (12)	Valve and Pipe Fittings (25Ø Check Valve)	2	рс									
	TOTAL OF PART VIII.D											
PART VIII.E	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100 (6) a	20mmØ PVC Pipe	35	piece									
1100 (2) a	15mmØ IMC Pipe	11	piece									
1100	20mmØ PVC Elbow	20	piece									
1100	15mmØ IMC Elbow	4	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire and 2.0mm² THW Wire	210	l.m.									
1101	5.5mm² THHN Wire and 3.5mm² THW Wire	64	l.m.									
1101 (3)	One Gang Switch	1	piece									
1101 (3)	Two Gang Switch	6	piece									
	PANELBOARD WITH MAIN AND BRANCH											
1102	ECB, 40AT, 2P	1	piece									
1102	ECB, 30AT, 2P	2	piece									
	LIGHTING FIXTURES AND LAMPS											
1103 (2)	T8, 18w LED, Box type with Tube Light	12	piece									
1103 (2)	Keyless Receptacle with 8W LED Bulb	1	piece									
	TOTAL OF PART VIII.E											
	TOTAL OF PART VIII											

ITEM CODE	DECORIDATION	OHANTITY	LINUT	ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	WAT	TOTAL INDIRECT	TOTAL COST	LINIT COST
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART IX	RIZAL BUILDING											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART IX.A	REMOVAL OF STRUCTURES AND											
800(1)	Clearing and Grubbing	15	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	36	cu.m.									
	TOTAL OF PART IX.A											
PART IX.B	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	9	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	5	set									
1010(2)a	Doors, Flush	10	sq.m.									
1018(1)	Glazed Tiles and Trims	63	sq.m.									
1018(2)	Unglazed Tiles	15	sq.m.									
1021(3)a	Floor Topping, Plain	15	sq.m.									
1027(1)	Cement Plaster Finish	11	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	21	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	9	sq.m.									
	TOTAL OF PART IX.B											
PART IX.C	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	33	l.m.									
1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	12	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	29	l.m.									
	WATER LINE WORKS											
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	29	l.m.									
	PLUMBING / SANITARY FIXTURES											
1002 (7)	Water Closet, Tank Type with Bidet, Complete	4	set									
1002 (11) a	Kitchen Sink, Single, Complete (Stainless)	2	set									
1002 (14) a	Lavatory, Wall Hung, Complete	2	set									
1002 (16) a3	Floor Drain Plates, 100mmØ	7	рс									
1002 (22)	Hose Bibb	4	рс									
	VALVES AND APPURTANCES											
1201 (12)	Valve and Pipe Fittings (25Ø Gate Valve)	2	рс									
1201 (12)	Valve and Pipe Fittings (25Ø Check Valve)	2	рс									
	TOTAL OF PART IX.C											

				ESTIMATED	MARK.	UP IN %	TOTA	AL MARK-UP	T	TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART IX.D	ELECTRICAL WORKS			Biitzer deer	OOM	T KOI II	70	171202		333.		
I AINT IAID	CONDUITS, BOXES AND FITTINGS											
1100 (6) a	20mmØ PVC Pipe	9	piece									
1100	20mmØ PVC Elbow	10	piece									
1100	WIRES AND WIRING DEVICES	10	piooo									
1101	3.5mm² THHN Wire and 2.0mm² THW Wire	50	l.m.									
1101 (3)	One Gang Switch	5	piece									
1101 (0)	LIGHTING FIXTURES AND LAMPS	Ť	piooo									
1103 (2)	Keyless Receptacle with 8W LED Bulb	5	piece									
1100 (2)	TOTAL OF PART IX.D	Ů	Piooo									
	TOTAL OF PART IX											
PART X	DEL PILAR BUILDING (INCLUDING HANDWASHING)											
PART A	CIVIL, PUMBLING/SANITARY AND ELECTRICAL WORKS											
PART X.A	REMOVAL OF STRUCTURES AND											
800(1)	Clearing and Grubbing	17	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	39	cu.m.									
	TOTAL OF PART X.A											
PART X.B	FINISHING AND OTHER CIVIL WORKS											
1008(1)c	Aluminum Glass Windows, Awning Type	3	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	5	set									
1010(2)a	Doors, Flush	8	sq.m.									
1018(1)	Glazed Tiles and Trims	73	sq.m.									
1018(2)	Unglazed Tiles	17	sq.m.									
1021(3)a	Floor Topping, Plain	17	sq.m.									
1027(1)	Cement Plaster Finish	5	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	38	sq.m.									
1002(1)0	TOTAL OF PART X.B		*4						+			
PART X.C	PLUMBING / SANITARY WORKS											
PARI A.C	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	17	l.m.						+			
1001 (1) a5 1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	3	l.m.						+			
	100mm Ø PVC Pipe and Fittings with Hanger/Support	9	l.m.						+			
1001 (1) a7	WATER LINE WORKS	9	1.111.						+			
4000 (0) h2		16	l ma									
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support PLUMBING / SANITARY FIXTURES	16	l.m.						+			
1000 (7)	l .											
1002 (7)	Water Closet, Tank Type, Complete	4	set									
	Lavatory, Wall Hung, Complete	9	set	1					+			
. ,	Floor Drain Plates, 100mmØ		рс									
1002 (22)	Hose Bibb	17	рс			-			-			
4004 (40)	VALVES AND APPURTANCES					-			1			
1201 (12)	Valve and Pipe Fittings (25Ø Gate Valve)	3	pc						1			
1201 (12)	Valve and Pipe Fittings (25Ø Check Valve)	3	pc						-			
	TOTAL OF PART X.C											

ITEM CODE	DESCRIPTION	QUANTITY	LIMIT	ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAI	COST	TOTAL COST	UNIT COST
PART X.D	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100 (6) a	20mmØ PVC Pipe	5	piece									
1100	20mmØ PVC Elbow	4	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire and 2.0mm² THW Wire	28	l.m.									
1101 (3)	Two Gang Switch	1	piece									
	LIGHTING FIXTURES AND LAMPS											
1103 (2)	T8, 18w LED, Box type with Tube Light	2	piece									
	TOTAL OF PART X.D											
	TOTAL OF PART X											
	GRAND TOTAL											

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	cuments cuments
	(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;
	(e)	and Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
Tec	hnica	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; and registration for the type and cost of the contract to be bid; and
	(i)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
	(j)	Original copy of Notarized Bid Securing Declaration; <u>and</u> Project Requirements, which shall include the following: a. Organizational chart for the contract to be bid;
		b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy);
		c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/yendor for

the duration of the project, as the case may be (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy); and □ (k) Original duly signed Omnibus Sworn Statement (OSS); and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder. Additional Technical Requirements: Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement □ • Affidavit of Undertaking for Key Personnel and Equipment (please see attached prescribed form required by the QC - BAC for Infrastructure and *Consultancy*) \square • Equipment Utilization Schedule \square • Manpower Schedule Construction Schedule and S-Curve PERT-CMP □ • **Construction Methods** Financial Documents \Box (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 (NFCC) (m) П (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 RA No. \square (n) 4566 and its IRR in case the joint venture is already in existence; 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 (p)

Duly accomplished Detailed Estimates Form, including a summary sheet indicating П (q) the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; and

Cash Flow by Quarter. (r)

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM		
	Data :	

Project Identification No.: _____

To: [name and address of Procuring Entity]

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

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

-

¹ currently based on GPPB Resolution No. 09-20^^

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

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

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

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

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

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

[Jurat]

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

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

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

AFFIDAVIT

- I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:
- 1. [Select one, delete the other:]

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

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

2. [Select one, delete the other:]

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

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

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, 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, Procurement Agent if engaged, 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, Procurement Agent if engaged, 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, Procurement Agent if engaged, 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:
 - Carefully examining all of the Bidding Documents;
 - Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

11.		that the project lans and prog	completed in accor	dance an	d congruen	icy with th	ıe
IN	WITNESS	WHEREOF , _, Philippines.	hereunto set my	hand th	is day	of,	20 at
			[Insert NAME [Insert	REPRE	DER OR IT SENTATIV 's legal cap	E])RIZED

Affiant

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

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

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

CONTRACT AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

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

- c. Performance Security;
- d. Notice of Award of Contract and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

- 3. In consideration for the sum of [total contract price in words and figures] or such other sums as may be ascertained, [Named of the bidder] agrees to [state the object of the contract] in accordance with his/her/its Bid.
- 4. The [Name of the procuring entity] agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

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

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

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

for: for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

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

NAME OF CONTRACTOR		

(10000000000000000000000000000000000000	500000	Carrotto and	assessance de la		CONTRACTOR'S ROLE (MOLL CONTRACTOR, SERCON/MACTOR,	TOTAL	DATE OF	CONTRACT	PERC	NTAGE	
PROJECT TITLE (Rame of the Contract) B. EXACT PROJECT LICEATION	DATE OF CONTRACT PROJECT OWNER & NATURE OF WORK CONTRACT DURATION POSTAL ADDRESS NATURE OF WORK	MATHRES IN A 70) VA	VALUE AT AWARD	COMPLETION OF ESTIMATED COMPLETION TIME	VALUE AT	ACTURL ACCOMPLEHENEAT	PLANNED ACCOMPOSIMINAT	WORKS (IN PRP)			
				ı,							
									TOTAL AMOUNT OUTSTANDING		

PHOTOCOPY	ADDIT	IONAL	FORMS.	IF NECESSARY

Witness	100		
a max		_	

LIST OF ALL AWARDED BUT NOT YET STARTED GOVERNMENT AND PRIVATE CONTRACTS OF THE BIDDER NAME OF CONTRACTOR: PROJECT TITLE: ROLE OF BIDDER IN THE CONTRACT SOLE CONTRACT PRICE DATE OF SCHEDULED MAJOR SCOPE OF WORKS & DATE NAME AND ADDRESS PROJECT TITLE & EXACT LOCATION CONTRACTOR / SUB-OF PROJECT OWNER (PHP) AS AWARDED COMPLETION STARTED CONTRACTOR/PARTNER IN A TOTAL AMOUNT OF CONTRACT (Php)

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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PROJECT TIFLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE SOLE CONTRACTOR, SUBCONTRACTOR, PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETIONTIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

nge__of__

NAME OF CONTRACTOR: PROJECT TITLE:

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

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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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PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY	1118	

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:	-					
	CURRENT	ASSETS*		PHP		
	(LESS) CU	RRENT LIABILITIES*	(LESS)	PHP		
	NETWOR	тн		РНР		
	NETWOR	TH x 15	x 15	PHP		
	(LESS) VAI	LUE OF ALL OUTSTANDING ON-GOING	(LESS)	PHP —		
		LUE OF ALL AWARDED BUT NOT YET CONTRACTS AS OF DATE**	(LESS)	PHP		
	NET FINA	ANCIAL CONTRACTING CAPACITY		PHP		
	NOTES:	* CURRENT ASSETS AND LIABILITIES PRECEDING CALENDAR YEAR SUB			D FINANCIAL STATEMEN	T FOR THE
		** BASED ON LIST OF ON-GOING AN	D AWRDE	D BUT NO	TYEY STARTED CONTRA	CTS

	AFFIDAVIT OF UNDERTAKING
I,	of legal age, Filipino,[OFFICER OR REPRESENTATIVE]
2 2	
with office ad	ress atafter
having been du	sworn to in accordance with law, hereby voluntary depose and state:
That I	n duly authorized representative of the <u>[Name of Bidder</u> to execute this
	ing as evidenced by Secretary's Certificate and Board Resolution.
That _	[Name of Bidder] bidding for the (Name of Project)
the equ	tive to the aforementioned Project, the <a>[Name of Bidder] hereby undertake that sment to be use and the key personnel to be assign shall exclusively be used and will form to the project until its completion.
	executing this affidavit to attest to the truth of the foregoing and in compliance with ission of the technical requirements for the public bidding of the said project.
the sub	18 Hogelf Person 1946 Hogelf Control of the Control of
IN WIT	ission of the technical requirements for the public bidding of the said project.
IN WIT	ission of the technical requirements for the public bidding of the said project. JESS HEREOF, I have hereunto signed my name below thisday of
IN WIT	IESS HEREOF, I have hereunto signed my name below thisday of IF FURTHER SAYETH NAUGHT.

Doc. No. Page No. Book No.

Series of 2020

Notary Public

