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 CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

Project number: 24-00134

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.

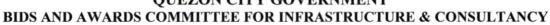
Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- 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





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

BAGONG PILIPINAS

October 15, 2024

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
Buil	ding – Sm	nall B					
1	24-00125	Proposed Construction of Perimeter Wall at Cong. R. Calalay Memorial Elementary School	Damayan	1,217,312.38	60	Engineering Department	Special Education Fund
2	24-00126	Proposed Rehabilitation of Covered Court at Doña Juana Elementary School	Holy Spirit	5,132,804.11	90	Engineering Department	Special Education Fund
3	24-00127	Proposed Upgrading of Electrical System at Kalantiyaw Elementary School in Barangay Bagumbuhay	Bagumbuhay	8,235,656.93	120	Engineering Department	Special Education Fund
4	24-00128	Proposed Waterproofing of Roof Deck and Rehabilitation of Ceiling (15th Floor) at Main Building in Quezon City Hall Compound	Central	8,697,155.64	120	Engineering Department	General Fund – Continuing Appropriation
5	24-00129	Proposed Upgrading of Plumbing System and Rehabilitation of Comfort Rooms at Tomas Morato Elementary School in Barangay Kamuning	Kamuning	8,913,447.29	150	Engineering Department	Special Education Fund
6	24-00130	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Mines Elementary School in Barangay Vasra	Vasra	11,575,042.08	150	Engineering Department	Special Education Fund
7	24-00131	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Doña Josefa Elementary School	San Roque	13,922,881.76	150	Engineering Department	Special Education Fund
8	24-00132	Proposed Construction of Perimeter Fence at Teresa Heights in Barangay Pasong Putik Proper	Pasong Putik Proper	14,356,791.59	120	Engineering Department	General Fund – Continuing Appropriation
9	24-00133	Proposed Construction of Covered Activity Area and Pathwalk and Rehabilitation of Fernando C. Amorsolo Senior High School	Kamuning	18,868,533.38	180	Engineering Department	Special Education Fund
10	24-00134	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at Camp General Emilio Aguinaldo High School	San Roque	19,876,954.60	180	Engineering Department	Special Education Fund

11	24-00135	Proposed Upgrading of Waterline System and Rehabilitation of Comfort Rooms at North Fairview Elementary School	North Fairview	19,944,137.23	150	Engineering Department	Special Education Fund
<u>Buil</u>	lding – Me	<u>dium A</u>					
12	24-00136	Proposed Rehabilitation of Tandang Sora Women's Museum at Barangay Tandang Sora	Tandang Sora	39,953,160.12	60	Engineering Department	Fund from Sen. Risa Hontiveros
Buil	lding – Lai	rge A					
13	24-00137	Proposed Construction of Amoranto Indoor Sports Facility Building and Improvement of Existing Multi-Purpose Building at Amoranto Sports Complex, Quezon City	Paligsahan	358,866,379.62	450	Engineering Department	20% Community Development Fund – Continuing Appropriation
14	24-00138	Proposed Construction of Six (6) Storey with Deck Multi-Purpose Building	Central	431,193,763.95	720	Engineering Department	20% Community Development Fund – Continuing Appropriation
Buil	lding – La	rge B					
15	24-00139	Proposed Construction of Five (5) Storey with Two (2) Basement and Roof Deck Multi-Purpose Building (Public Market, Barangay Hall, Public Library, Health Center and Day Care Center) at Barangay Damayan	Damayan	661,398,881.76	540	Engineering Department	20% Community Development Fund – Continuing Appropriation
Elec	ctrical Wo	rk – Small B				•	
16	24-00140	Proposed Installation of Solar Power System at Manuel A. Roxas High School Including Net Metering Application	Paligsahan	12,080,386.87	120	Engineering Department	Special Education Fund
17	24-00141	Proposed Installation of Solar Power System at Pasong Tamo Elementary School Including Net Metering Application	Pasong Tamo	12,148,723.93	120	Engineering Department	Special Education Fund
18	24-00142	Proposed Installation of Solar Power System at Novaliches High School Including Net Metering Application	San Agustin	12,228,497.23	120	Engineering Department	Special Education Fund
19	24-00143	Proposed Installation of Solar Power System at San Agustin Elementary School Including Net Metering Application	San Agustin	12,242,281.06	120	Engineering Department	Special Education Fund
20	24-00144	Proposed Installation of Solar Power System at San Bartolome High School Including Net Metering Application	San Bartolome	12,307,218.93	120	Engineering Department	Special Education Fund

21	24-00145	Proposed Installation of Solar Power System at Commonwealth Elementary School Including Net Metering Application	Commonwealth	12,317,262.22	120	Engineering Department	Special Education Fund
22	24-00146	Proposed Installation of Solar Power System at Camp General Emilio Aguinaldo High School Including Net Metering Application	Camp Aguinaldo	12,346,151.11	120	Engineering Department	Special Education Fund
23	24-00147	Proposed Installation of Solar Power System at Ramon Magsaysay Elementary School Including Net Metering Application	Lourdes	12,355,546.17	120	Engineering Department	Special Education Fund
24	24-00148	Proposed Installation of Solar Power System at Tandang Sora Elementary School Including Net Metering Application	Tandang Sora	12,406,483.24	120	Engineering Department	Special Education Fund
25	24-00149	Proposed Installation of Solar Power System at Batasan Hills National High School Including Net Metering Application	Batasan Hills	12,468,274.28	120	Engineering Department	Special Education Fund
26	24-00150	Proposed Installation of Solar Power System at Placido Del Mundo Elementary School Including Net Metering Application	Talipapa	12,544,398.72	120	Engineering Department	Special Education Fund
27	24-00151	Proposed Installation of Solar Power System at Judge Feliciano Belmonte Sr. High School Including Net Metering Application	Holy Spirit	12,607,622.07	120	Engineering Department	Special Education Fund
28	24-00152	Proposed Installation of Solar Power System at Lagro High School Including Net Metering Application	Greater Lagro	12,629,898.96	120	Engineering Department	Special Education Fund
29	24-00153	Proposed Installation of Solar Power System at Culiat Elementary School Including Net Metering Application	Culiat	12,652,507.89	120	Engineering Department	Special Education Fund
30	24-00154	Proposed Installation of Solar Power System at Quirino High School Including Net Metering Application	Duyan-Duyan	12,655,519.95	120	Engineering Department	Special Education Fund
31	24-00155	Proposed Installation of Solar Power System at Holy Spirit Elementary School Including Net Metering Application	Holy Spirit	12,771,548.68	120	Engineering Department	Special Education Fund
32	24-00156	Proposed Installation of Solar Power System at New Era High School including Net Metering Application	New Era	12,776,202.97	120	Engineering Department	Special Education Fund
33	24-00157	Proposed Installation of Solar Power System at Culiat High School Including Net Metering Application	Culiat	12,870,990.71	120	Engineering Department	Special Education Fund

34	24-00158	Proposed Installation of Solar Power System at Juan Sumulong High School Including Net Metering Application	Tagumpay	13,035,914.96	120	Engineering Department	Special Education Fund
Buil	ding – Sm	nall B					
35	24-00159	Proposed Upgrading of Electrical System at Sta. Lucia High School	Sta. Lucia	18,093,988.07	90	Engineering Department	Special Education Fund
Floo	od Control	– Small B					
36	24-00160	Proposed Construction of Slope Protection (Steel Sheet Pile) Along Katipunan Avenue (Center Island Area) at Barangay Pansol	Pansol	7,200,191.98	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
37	24-00161	Proposed Drainage System at Usaffe Road from AFP Road (Sta 0+000) to Creek (Sta 0+070) at Barangay Holy Spirit	Holy Spirit	10,099,069.10	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
38	24-00162	Proposed Drainage System at Dunhill Street from Viceroy Street (Sta. 0+000 to Sta. 0+050) in Barangay Fairview	Fairview	11,576,060.33	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
39	24-00163	Proposed Drainage System at Valiant Street from Fairview Avenue (Sta. 0+000) to Gate (Sta.0+060) in Barangay Fairview	Fairview	12,309,581.99	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
40	24-00164	Proposed Drainage System at Rachel Lane from Regina Lane (Sta.0+000) to Carmen Drive (Sta.0+085) in Barangay Kaligayahan	Kaligayahan	13,505,820.84	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
41	24-00165	Proposed Drainage System at West Riverside Street from Valencia Street (Sta.0+000) to Florencia Road (Sta. 0+100) in Barangay Del Monte	Del Monte	19,449,533.38	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
42	24-00166	Proposed Construction of Slope Protection (Reinforced Concrete Retaining Wall) Along Kamuning Public Market (Sta. 0+000 - Sta. 0+068.5) at Barangay Kamuning	Kamuning	20,180,401.70	150	Engineering Department	Local Disaster Risk Reduction and Management Fund
43	24-00167	Proposed Drainage System at Mangga Street (Sta.0+000 to Sta.0+180) in Barangay Katipunan	Katipunan	22,374,396.77	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
44	24-00168	Proposed Drainage System at Capoas Street from Gasan Street (Sta.0+000) to Inaman Street (Sta. 0+200) in Barangay Masambong	Masambong	23,079,798.79	90	Engineering Department	Local Disaster Risk Reduction and Management Fund

45	24-00169	Proposed Drainage System at Castro Street from Santa Marcela (Sta 00+000) to Creek (Sta 00+250) in Barangay Sta. Lucia	Sta. Lucia	24,742,951.11	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
Floo	od Control	– Medium A					
46	24-00170	Proposed Drainage System at Kaliraya Street from ROTC Hunter (Sta. 0+000) to San Juan River (Sta. 0+280) in Barangay Tatalon	Tatalon	42,499,586.57	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
47	24-00171	Proposed Construction of Slope Protection (Steel Sheet Piles) at Tullahan River Near Odelco Subdivision in Barangay San Bartolome	San Bartolome	60,764,822.59	90	Engineering Department	Local Disaster Risk Reduction and Management Fund
Roa	d – Small	<u>B</u>					
48	24-00172	Proposed Rehabilitation (Surface Improvement) of Barangay Hall Compound at Barangay U.P. Village	U.P. Village	2,449,872.89	60	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).
- 3. 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.
- 4. Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. 5:00 p.m.
- 5. A complete set of Bidding Documents may be acquired by interested bidders on 16 October 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 Documen (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;

- 1. PhilGEPS Registration Certificate (Platinum 3 Pages)
- 2. Document Request List (DRL)

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

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

6. The *QC-BAC-INFRASTRUCTURE & CONSULTANCY* will hold a Pre-Bid Conference¹ on October 24, 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

- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **November 05, 2024 9:00 AM**. Late bids shall not be accepted.
- 8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
- 9. Bid opening shall be on November 05, 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

2nd Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

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

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

Website: www.quezoncity.gov.ph

12. You may visit the following websites:

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

Ву:

MS. MARIAN C. ORAYANI

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 CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL, with Project Identification Number 24-00134.

[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 Nineteen Million Eight Hundred Seventy-Six Thousand Nine Hundred Fifty-Four Pesos and 60/100 Ctvs. (P 19,876,954.60).
- 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 October 24, 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		Direct		
	T 41	L -11 C	44.1.1 4	
5.2	For this purpose, similar contracts similar categories of work.	nall refer to cont	racts which have the same	
7.1	Subcontracting is not allowed.			
10.3	No additional contractor license or permit is required			
	In addition, eligible bidders shall q	ualify or comply	with the following:	
	1. Bidders with valid Philippine Cor	ntractors Accredi	tation Board (PCAB)	
	Type			
	Building - Small B			
10.4	The minimum work experience following:	requirements fo	r key personnel are the	
	Qnty. Key Personnel Gener	ral Experience	Relevant Experience	
	1 Project Manager	3 years	3 years	
	1 Project-in-Charge (Project Engineer)	3 years	3 years	
	1 General Foreman	3 years	3 years	
	1 Trade Engineers/ Leadman for Civil Works	3 years	3 years	
	1 Trade Engineers/ Leadman for Electrical Works	3 years	3 years	
	1 Trade Engineers/ Leadman for Mechanical Works	3 years	3 years	
	1 Safety Officer	3 years	3 years	
	1 DPWH Duly Accredited Materials/ QA/ QC Engineer	3 years	3 years	
	1 Cost Engineer/ Project Scheduler	3 years	3 years	
	1 Surveyor	3 years	3 years	
	In addition, the bidder must ex- notarized stating that the foregoing for the project until its completion.	personnel shall	perform work exclusively	
10.5	The minimum major equipment requ		ž	
	Equipment	Capacity	Number of Units	
	Dumptruck	12 cu. 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 397,539.09 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 993,847.73 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 180 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

Civic Center Building B, Quezon City Hall Compound, Elliptical Road Diliman, Central 1100 Quezon City Trunkline: +63 2 8988 4242 E-mail address: engineering@quezoncity.gov.ph



PROJECT TITLE:

PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH

SCHOOL ROS

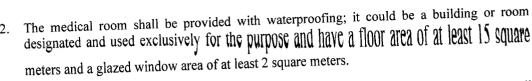
LOCATION:

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 be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- D. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location, to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- E. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- F. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- G. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- H. Mobilization and Demobilization (if applicable)
 - 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 strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.



- 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 to avoid untoward incidents / accidents.
- L. 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.

I. SITE WORKS

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

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

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

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

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

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

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

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.

3. Materials

- Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C - 150).
- Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to b. concrete or steel.
- 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.
- Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.

4. Proportioning and Mixing

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

Cement: Sand: Gravel

Class "A" - 1: 2: 3

Class "B" - 1: 2: 4

Class "C" - 1: 2 1/2

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

5. Forms

- General Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be 1/4" (6mm) thick ordinary plywood and form lumber.
- Cleaning of Forms before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material. b.
- Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

6. Placing Reinforcement:

Steel 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 rust and scale, oil, grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

7. Conveying and Placing Concrete:

a. Conveying – concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.

- 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 concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral 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 tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.
- e. Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

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 wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent 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 patching 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 laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

B. ROOFING WORKS

- Corrugated galvanized iron (G.I.) sheets, including plain aluminum sheets for roofing accessories shall be cold-rolled meeting ASTM A-153 and with spelter coating of zinc of not less than 0.381 kg/sq.m. (1.25 ounce/sq.ft.) conforming to ASTM A-525 or pns 67:1985. Unless otherwise specified or shown on Plans, roofing sheets shall be gauge 26 (0.48mm thick) and provided in long span sizes to minimize end laps. Sheets shall weigh not less than 3.74 kg/sq.m. and shall be marked or stamped showing the gauge, size amount of zinc coating, brand 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.
- 2. 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 fabricated from gauge 26 plain G.I. sheets and constructed to the dimensions and details shown on Plans.

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

C. METAL FABRICATION

1. Materials:

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

2. Fabrication:

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

3. Metal Surfaces:

Surfaces shall be clean and free from all scale, flake, rust and rust pitting; well-formed and finished to shape and size, with sharp lines, angle and smooth surface. Shearing and punching shall leave clean true lines and surfaces. Weld or rivet permanent connections. Weld and flush rivets shall be used and finished flush smooth on surfaces that will be exposed after installation. Do not use screws or 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 installation.

III. ARCHITECTURAL WORKS

A. FLOOR FINISHES

Ceramic Tiles. Unglazed ceramic tiles shall be hard, dense tiles of homogeneous composition.
 Its 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

1. Ceramic Tiles. Glazed tiles and trims shall have an impervious face of ceramic materials fused onto the body of the tiles and trims. 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 (less glossy), matte (dull) or crystalline (mottled and textured; good resistance 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.

2. **Cement Plaster Finish.** 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 (1/4) part hydrated lime.

C. CEILING FINISHES

1. Fiber Cement Board on Metal Frame. The ceiling materials to be used shall conform to the samples approved by the City Engineer. All ceiling 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 cut as required to fit the perpendicular condition and should be properly secured by anchorage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work. All joints around electrical outlets, pipes and other works extending through materials shall be sealed with caulking.

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 oil-based primers and paints to fill minor surface dents and imperfections.
- 4. Paint Schedule.
 - a. Ceiling Boards
 - i. 1 coat primer, 2 coats latex paint finish
 - b. Interior Masonry Wall (Plain cement plastered finish to be painted)
 - i. 1 coat skim coating, 1 coat primer, 2 coats latex paint finish
 - c. Slab Soffit
 - i. 1 coat primer, 2 coats latex paint finish
 - d. Metal / Steel Surfaces
 - i. 1 coat primer, 2 coats epoxy enamel finish
 - 5. Surface Preparation. All surfaces shall be in proper condition to receive the finish. Woodworks shall be hand-sanded smooth and dusted clean. All knot-holes pitch pockets or sappy portions shall be sealed with natural wood filler. 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 filled 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, unprimed galvanized metal with etching solution and allow it to dry. Where required to prime coat surface with Red Lead Primer same shall be approved by the Engineer.

In addition, the Contractor shall undertake the following:

- Voids, cracks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces.
- b. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
- c. Panting and varnishing works shall not be commenced when it is too hot or cold.
- d. Allow appropriate ventilation during application and drying period
- e. 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 wet paint. Brush marks shall have flawed out after application of paint.

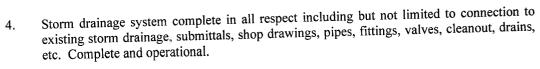
Paints made for application by roller must be similar to brushing paint. It must be non-sticky when thinned to spraying viscosity so that it will break up easily into droplets.

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.

- 7. Application shall be as per paint Manufacturer's specification and recommendation.
- 8. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- 9. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- 11. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- 12. All other surfaces endangered by stains and paint 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, bibbs, 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.
 - 3. Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.



- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also, test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.
- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.

- U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 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/SEI 7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- 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.

ELECTRICAL WORKS V.

CONDUITS, BOXES AND FITTINGS Α.

- This item shall consist of the furnishing and installation of the complete conduit work, consisting of electrical conduits; conduit boxes such as junction boxes, pull boxes, utility boxes, octagonal and square boxes; conduit fittings, such as couplings, locknuts and bushings and other electrical materials needed to complete the conduit roughing-in work of this project.
- 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 workmanlike manner by qualified and experienced electricians under the immediate supervision of a duly licensed Electrical Engineer. 3.
- 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. 5.
- All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells 6. 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 test equipment and personnel and to submit written copies of all test results.

9. The contractor shall guarantee the electrical installation are done and in accordance with the approved plans and specifications. The contractor shall guarantee that the electrical systems are free from all grounds and from all defective workmanship and materials and will remain so for a period of one year from date and acceptance of works. Any defect shall be remedied by the Contractor at his own expense.

B. WIRES AND WIRING DEVICES

- This Item shall consist of the furnishing and installation of all wires and wiring devices consisting of
 electric wires and cables, wall switches, convenience receptacles, heavy duty receptacles and other
 devices shown on the approved Plans but not mentioned in these specifications.
- 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 piaster 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, receptacles and other wiring devices without the use of additional splices.
- 4. All conductors of convenience outlets and lighting branch circuit homeruns shall be wired with a minimum of 3.5 mm in size. Circuit homeruns to panelboards shall not be smaller than 3.5 mm but all homeruns to panelboard more than 30 meters shall not be smaller than 5.5 mm. No conductor shall be less than 2 mm in size.
- 5. All wires of 14mm and larger in size shall be connected to panels and apparatus by means of approved type lugs or connectors of the solderless type, sufficiently large enough to enclose all strands of the conductors and securely fastened. They shall not loosen under vibration or normal strain.
- 6. All joints, taps and splices on wires larger than 14 mm shall be made of suitable solderless connectors of the approved type and size. They shall be taped with rubber and PVC tapes providing insulation not less than that of the conductors.
- 7. No splices or joints shall be permitted in either feeder or branch conductors except within 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 arid PVC tapes in a manner which will make their insulation as that of the conductor.
- 8. All wall switches and receptacles shall be fitted with standard Bakelite face plate covers. Device plates for flush mounting shall be installed with all four edges in continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plaster filling shall not be permitted. Plates installed in wet locations shall be gasketed.
- 9. 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.
- 2. Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - Rated for environmental conditions at installed location.

- Indoor Dry and Clean Locations: NEMA, Type 1. i.
- Outdoor Locations: NEMA, Type 3R. ii.
- Kitchen and Wash-Down Areas: NEMA, Type 4X, stainless steel. iii.
- Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, iv. 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 b. dimensions; for flush-mounted fronts, overlap box.
- Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim ¢. cover.
- Skirt for Surface-Mounted Panelboards: Same gauge and finish as panelboard front with flanges d. for attachment to panelboard, wall, and ceiling or floor.
- Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.

Finishes: f.

- Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat i. and thermosetting topcoat.
- Back Boxes: Galvanized steel Same finish as panels and trim. ii.
- Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and iii. other components.
- Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with g. transparent protective cover.
- Incoming Mains Location: Top or Bottom. 3.
- Phase, Neutral, and Ground Buses: 4
 - Material: Hard-drawn copper, 98 percent conductivity. a.
 - Adequate for feeder and branch-circuit equipment grounding Equipment Ground Bus: b. conductors; bonded to box.
 - Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 c. percent of phase bus and UL listed as suitable for nonlinear loads.

MECHANICAL WORKS VI.

WATER-PUMPING SYSTEM

- 1. 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.
- 2. Exposed piping shall be provided with concrete saddle or steel clamps or hangers to secure them firmly to the structures.

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

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

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

Prepared by

WINHEYLE B. QUIMNO Civil Engineer, Planning and

Design Division

Checked by:

MARHAT. COWIENDAD Civil Engineer, Planning and

Design Division

Section VII. Drawings

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

HIRD FLOOR FEMALE COMFORT ROOM SEWER LINE LAYOUT (DEPED BUILDING), FOURTI

TYP. GROUND FLOOR, SECOND FLOOR AND THIRD FLOOR MALE AND FEMALE COMFORT

GROUND FLOOR FEMALE COMFORT ROOM LIGHTING LAYOUT (SB BUILDING), GROUND

GROUND FLOOR FEMALE COMFORT ROOM LIGHTING LAYOUT (AGUINALDO BUILDING)

GROUND FLOOR FEMALE COMFORT ROOM LIGHTING LAYOUT (SENIOR HIGH BUILDING) GROUND FLOOR MALE COMFORT ROOM LIGHTING LAYOUT (SENIOR HIGH BUILDING) TYP. SECOND FLOOR TO FOURTH FLOOR FEMALE COMFORT ROOM LIGHTING LAYOUT (SENIOR HIGH BUILDING), TYP. SECOND FLOOR TO FOURTH FLOOR MALE COMFORT ROOM

LIGHTING LAYOUT (SENIOR HIGH BUILDING), GROUND FLOOR FEMALE COMFORT ROOM

FLOOR FEMALE COMFORT ROOM SEWER LINE LAYOUT (DEPED BUILDING)

INDEPENDENT CR 1 WATERLINE LAYOUT (INFRONT OF MATHAY BUILDING) INDEPENDENT CR 2 WATERLINE LAYOUT (INFRONT OF MATHAY BUILDING) INDEPENDENT CR 3 WATERLINE LAYOUT (INFRONT OF MATHAY BUILDING) **ELECTRICAL** EL-01 GENERAL NOTES, LEGEND AND SYMBOLS, MISCELLANEOUS DETAIL, SCHEDULE OF LOADS

FLOOR MALE COMFORT ROOM LIGHTING LAYOUT (SB BUILDING)

SECOND FLOOR CLASSROOM LIGHTING LAYOUT (SB BUILDING)

THIRD FLOOR FEMALE COMFORT ROOM LIGHTING LAYOUT (SB BUILDING)

SECOND FLOOR MALE COMFORT ROOM LIGHTING LAYOUT (DEPED BUILDING) THIRD FLOOR FEMALE COMFORT ROOM LIGHITING LAYOUT (DEPED BUILDING)

FOURTH FLOOR FEMALE COMFORT ROOM LIGHTING LAYOUT (DEPED BUILDING) TYP. GROUND FLOOR AND THIRD FLOOR MALE AND FEMALE COMFORT ROOM LIGHTING

LAYOUT (MATHAY BUILDING), FEEDING CENTER LIGHTING LAYOUT INDEPENDENT CR 1 LIGHTING LAYOUT (INFRONT OF MATHAY BUILDING)

INDEPENDENT CR 2 LIGHTING LAYOUT (INFRONT OF MATHAY BUILDING) INDEPENDENT CR 3 LIGHTING LAYOUT (INFRONT OF MATHAY BUILDING)

ROOM SEWER LINE LAYOUT (MATHAY BUILDING)

FEEDER LINE / SITE DEVELOPMENT PLAN

LIGHTING LAYOUT(DEPED BUILDING)

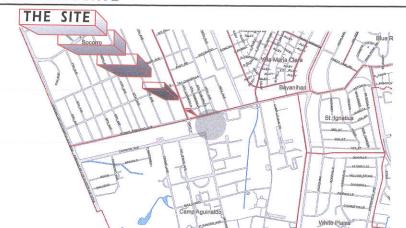




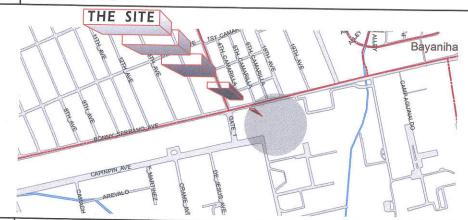
TYPICAL MALE COMFORT ROOM

TYPICAL FEMALE COMFORT ROOM

INTERIOR PERSPECTIVE



VICINITY MAP



LOCATION MAP

~		_
100 A Sing	Republika ng Pilipinas	
) S () S (Lungsod ng Quezon	
I CON CITY	DEPARTMENT OF ENGINEERING Civic Genter Building B, City Hall Compound, Elliptical Road Dilman, Central 1100 Quezon City Trunkline: +63 2 8098 4242 E-mail address: engineering @quezoncity.gov.ph	

PROJEC	T TITLE :
	OPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF
	OMFORT ROOMS AT CAMP GENERAL

LOCATION : BARANGAY SAN ROQUE . DISTRICT 3. QUEZON CITY

EMILIO AGUINALDO HIGH SCHOOL

WINHELLE B. QUIMNO CIVIL ENGINEER REVISION NO.:

DATE July 09, 2024

DNNS A

	EDISWINDA DL DE GUZMAN AD, PLAMINIG & DESIGN DIVISION	ATTY. MARK DALE DIAMOND P. PERR	HON. MA. JOSEFINA G. BELMONTE	PERSPECTIVE LOCATION MAP SITE DEVELOPMENT PLAN	AR-01 01 38
SUBMITTED E	3Y:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
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PL-08	TYP. GROUND FLOOR, SECOND FLO ROOM WATERLINE LAYOUT (MATHA				

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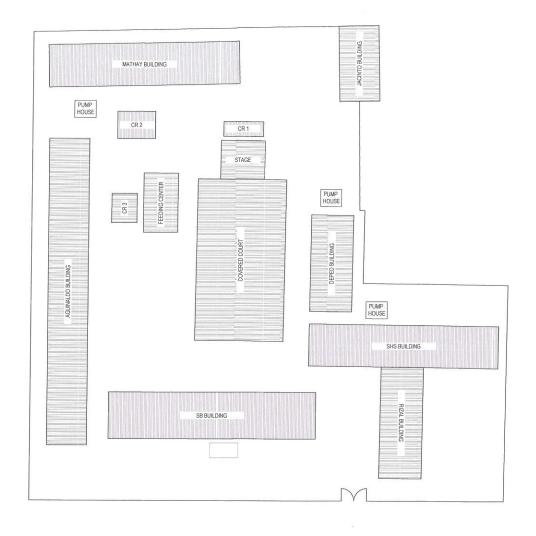
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ŀ	PL-04	GROUND FLOOR MALE COMFORT ROOM WATERLINE LAYOUT (SB BUILDING)		
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H		TYP. SECOND FLOOR TO FOURTH FLOOR FEMALE COMFORT ROOM WATERLINE LAYOUT		
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_				
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	PL-08			

ARCHITECTURAL

GROUND FLOOR FEMALE COMFORT ROOM PLAN(SB BUILDING), SECTION

AR-01 PERSPECTIVE, VICINITY MAP, LOCATION MAP

AR-02 SITE DEVELOPMENT PLAN

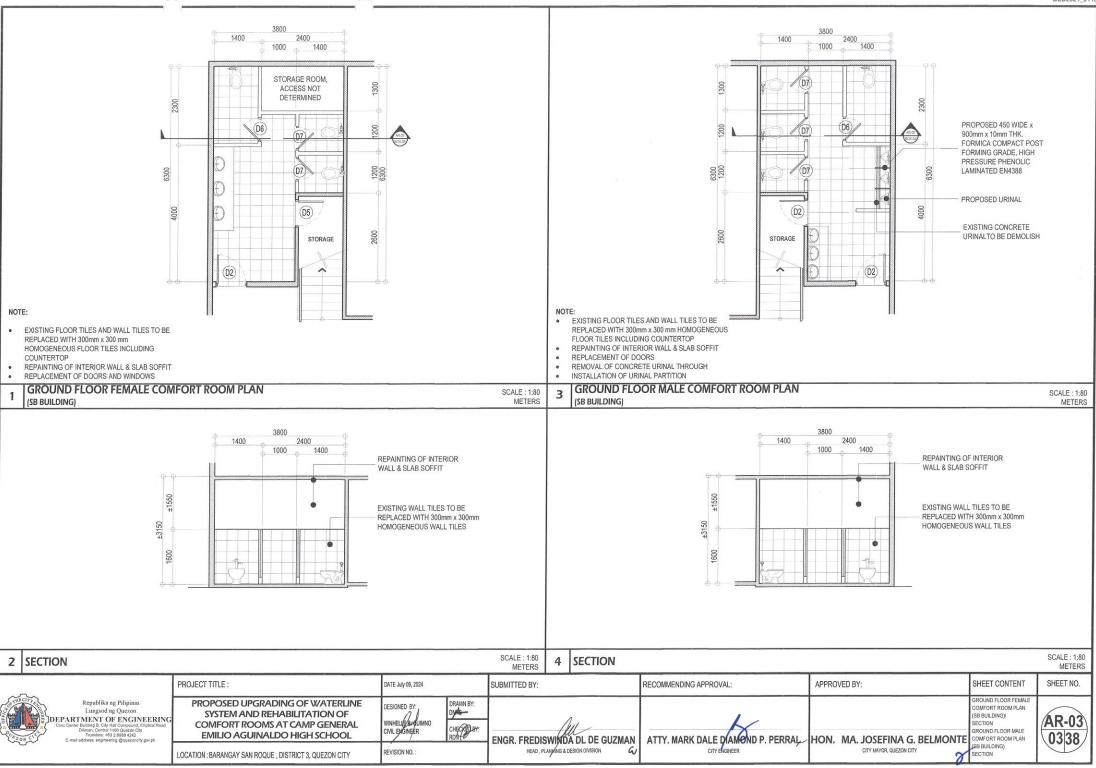


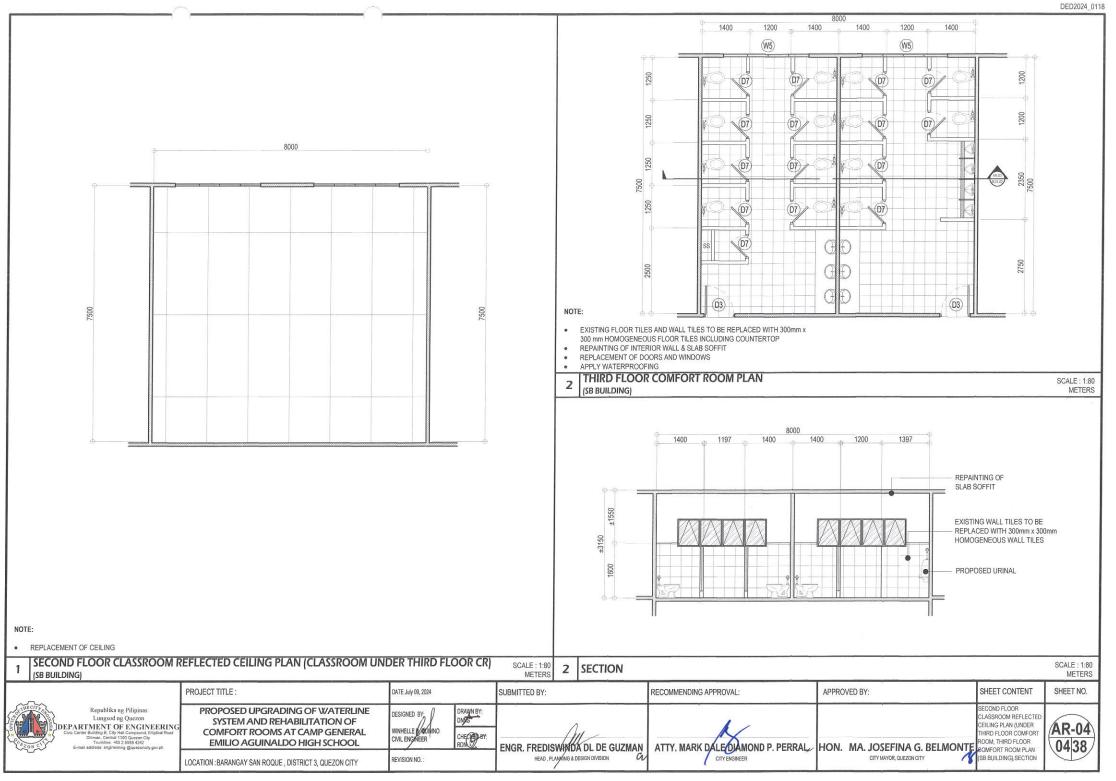
1 SITE DEVELOPMENT PLAN

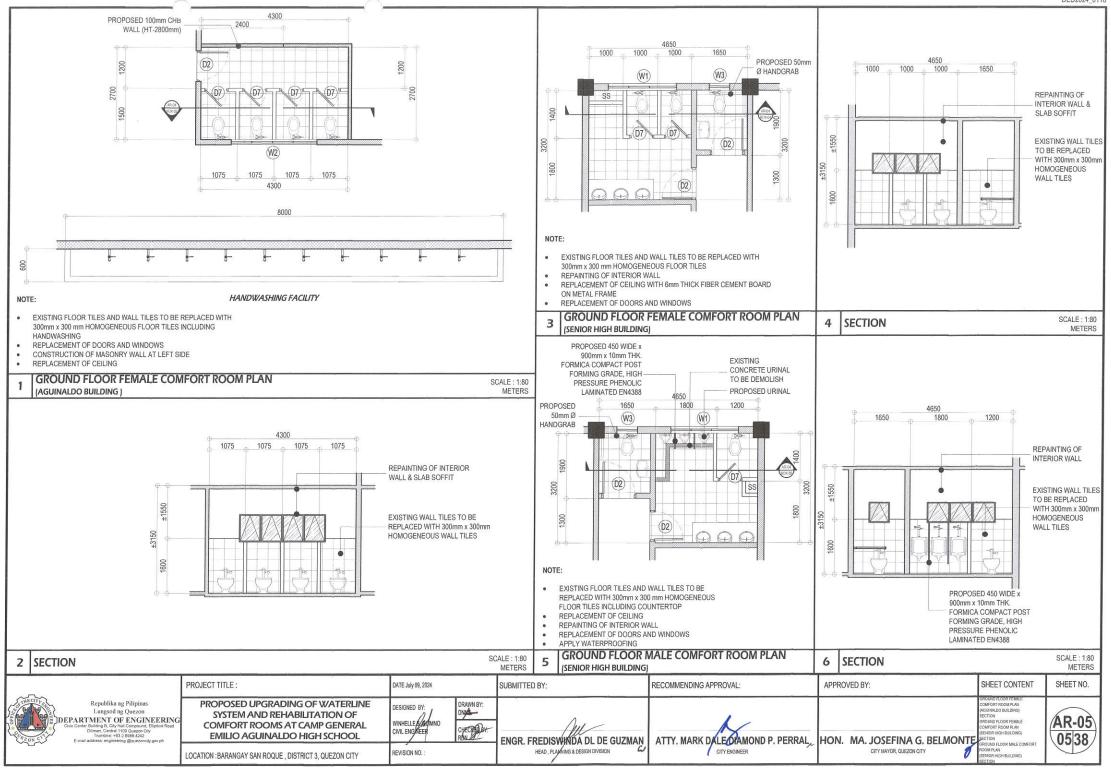
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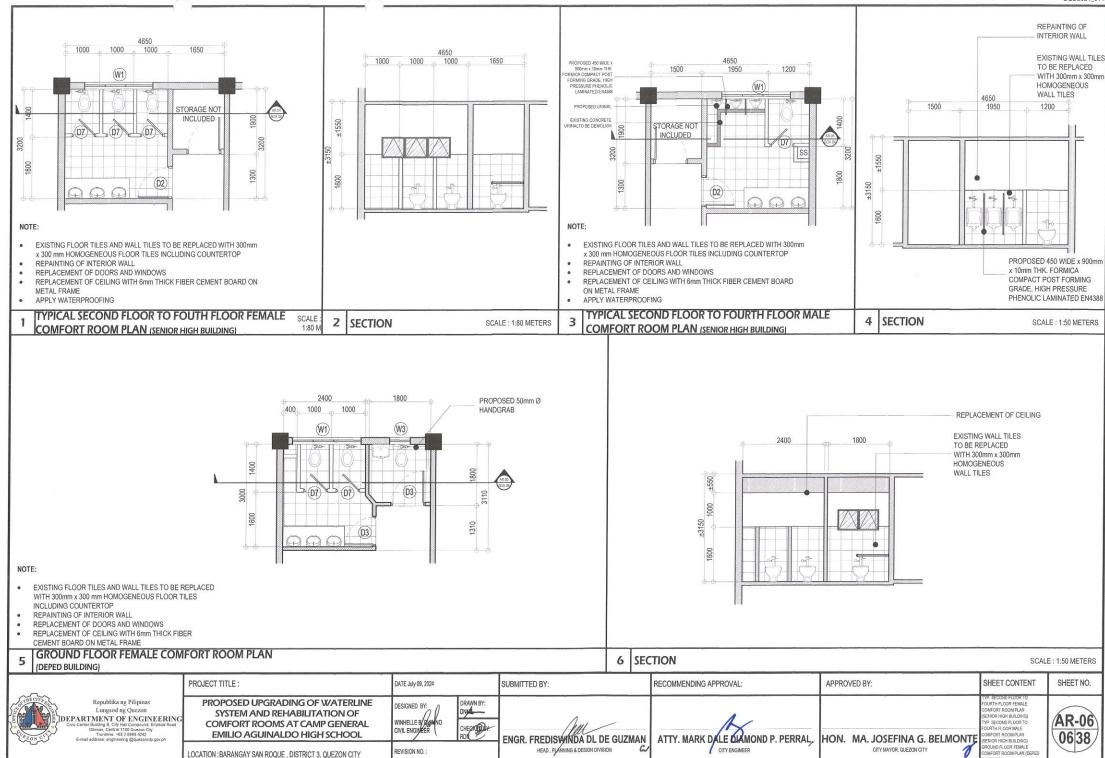
A CITY OF THE PARTY OF THE PART	Republika ng Pilipinas Lungsod ng Quezon DEPARTMENT OF ENGINEERING Cyvic Center Building B. City Half Compound, Eliptical Road Dilliman, Centrál 1100 Ouezon Chi
FRON CI	E-mail address: engineering @quezoncity.gov.ph

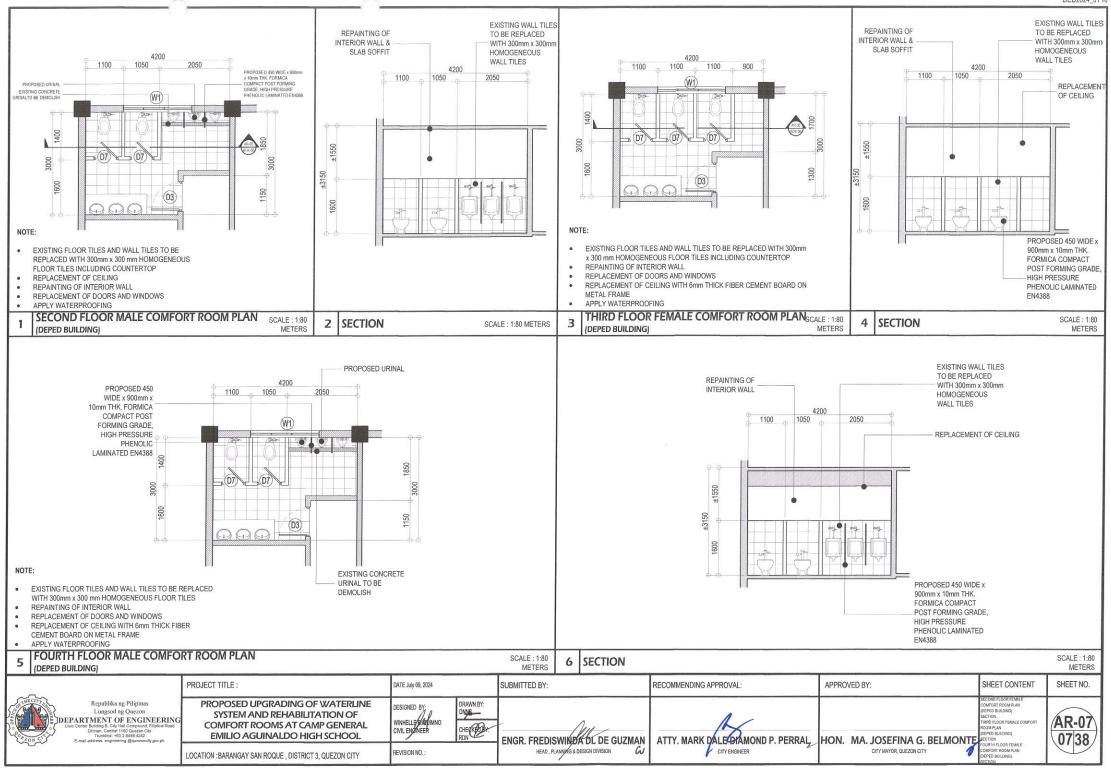
	PROJECT TITLE:	DATE July 09, 2024		SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
G	PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL	WINHELD BY	DRAWN BY: DNAS CHECKED BY: RDN	ENGR. FREDISWINDA DL DE GUZMAN	ATTY. MARK DALE DIAMOND P. PERRAL		SITE DEVELOPMENT PLAN	AR-02 02 38
	LOCATION : BARANGAY SAN ROQUE , DISTRICT 3, QUEZON CITY	REVISION NO.:		HEAD , PLANNING & DESIGN DIVISION	OTTY ENGINEER	CITY MAYOR, QUEZON CITY		02 36

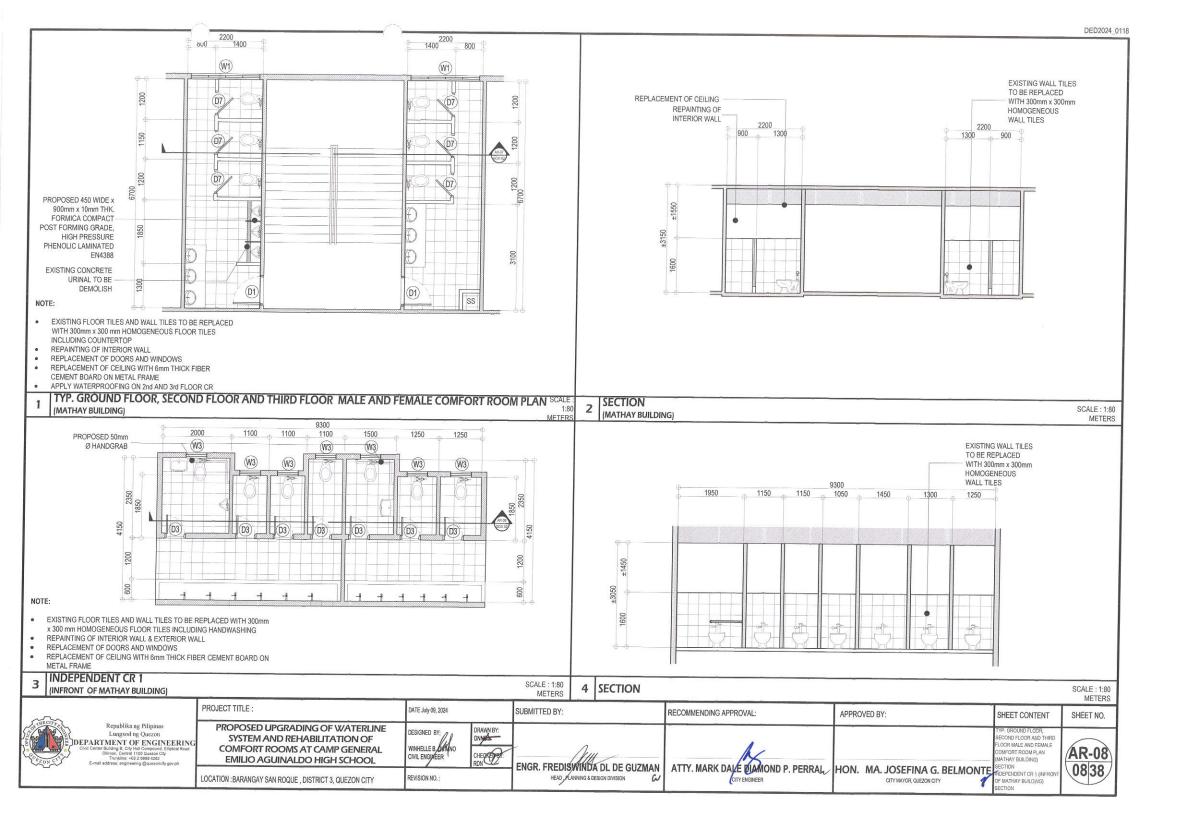


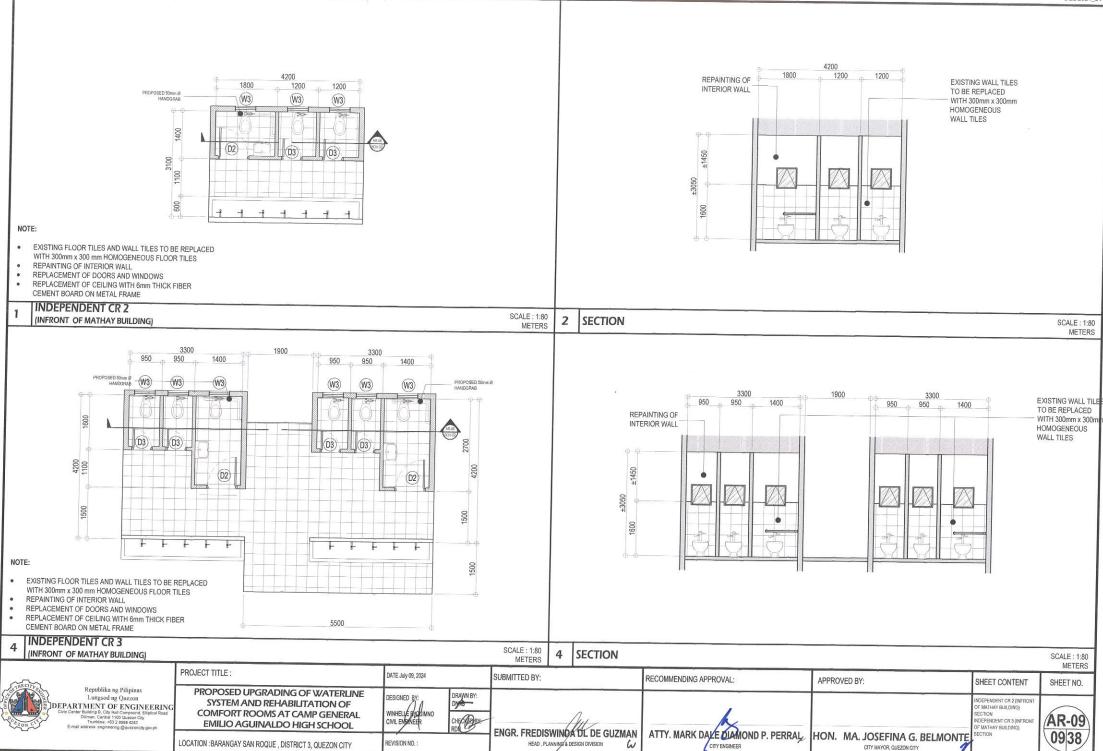


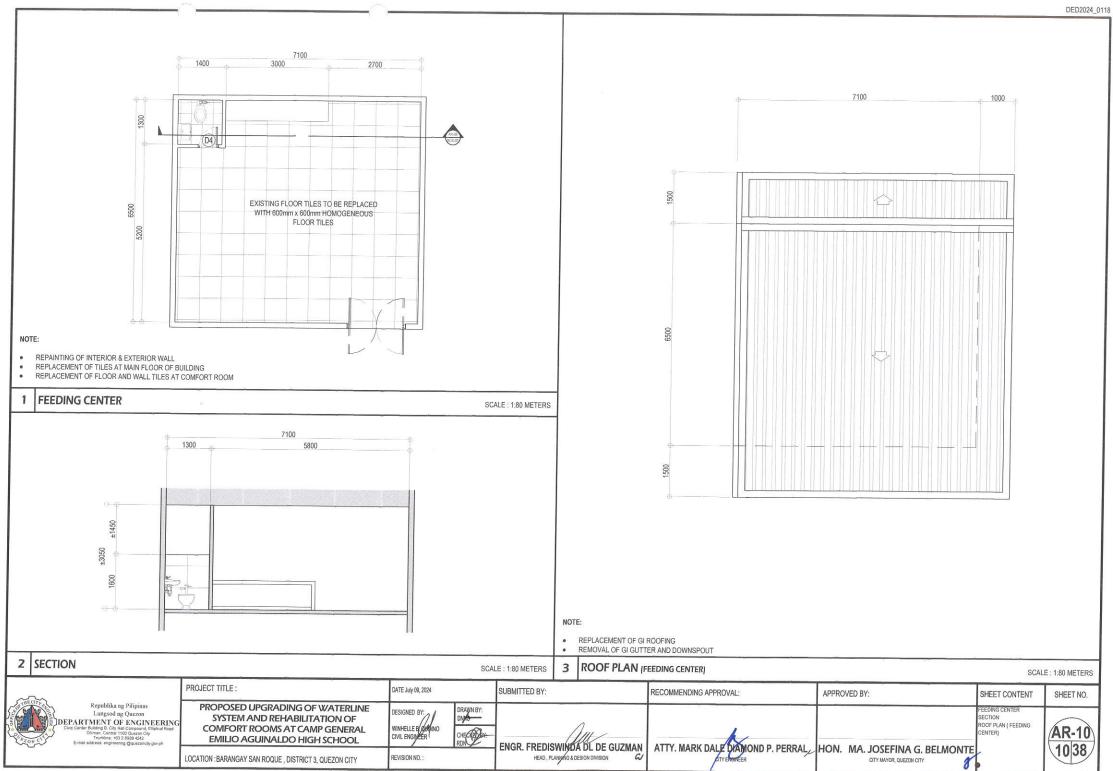


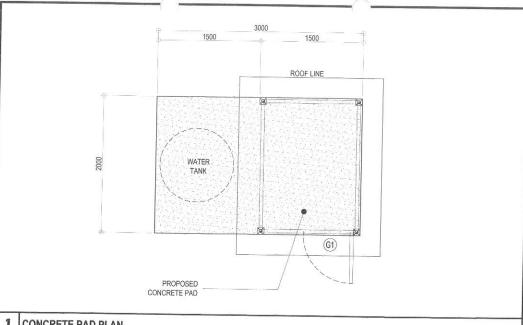












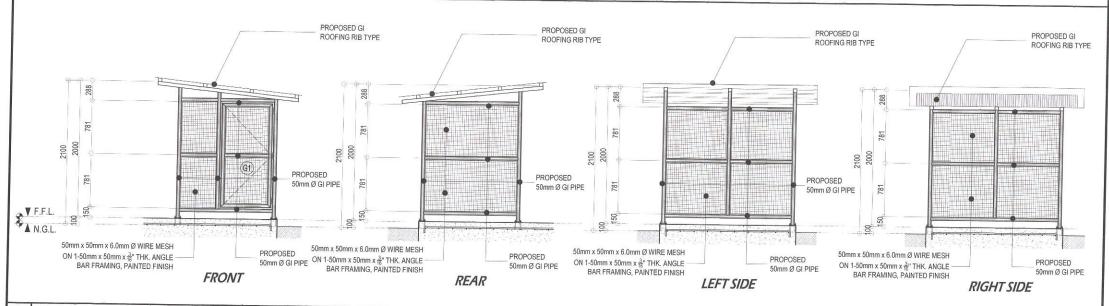
ROOF LINE WATER TANK PROPOSED GI ROOFING RIB TYPE

1 CONCRETE PAD PLAN

SCALE: 1:40 METERS

2 PUMP HOUSE ROOFING

SCALE: 1:40 METERS



ELEVATION (PUMP HOUSE)

SCALE: 1:40 METERS

SHEET NO.



PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

DATE July 09, 2024 DRAWN BY: DESIGNED BY:// WINHELLE BLOOMNO CIVIL ENGINEER CHECKED Y: LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY REVISION NO.:

ENGR. FREDISWINDA DL DE GUZMAN HEAD , PLANNING & DESIGN DIVISION

SUBMITTED BY:

ATTY. MARK DALE DIGMOND P. PERRAL HON. MA. JOSEFINA G. BELMONTE EITY ENGINEER

RECOMMENDING APPROVAL:

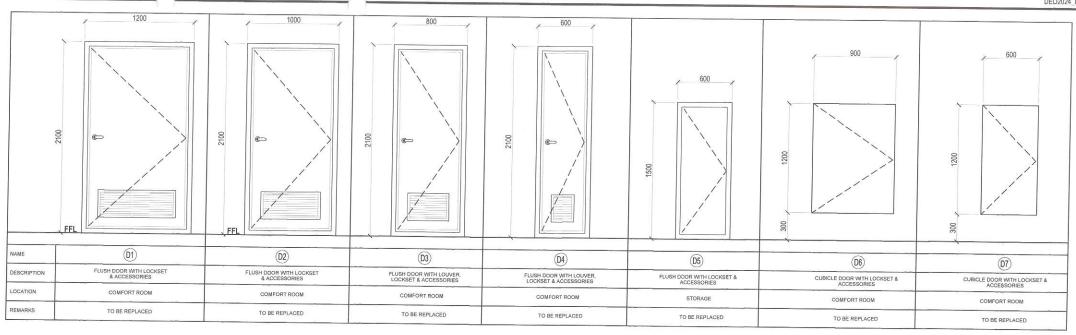
PUMP HOUSE ROOFING ELEVATION (PUMP HOUSE

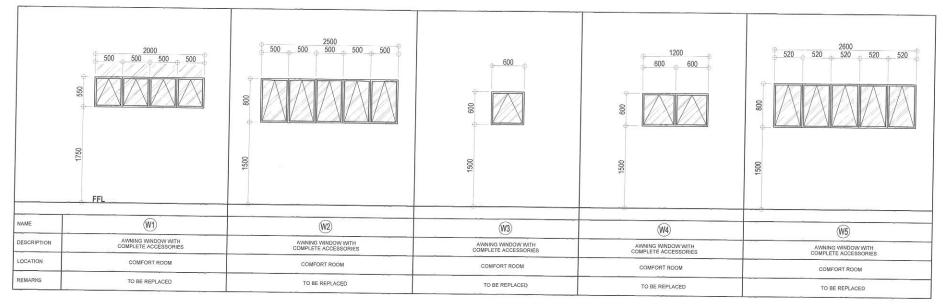
CITY MAYOR, QUEZON CITY

APPROVED BY:

AR-11 1138

SHEET CONTENT





SCHEDULE OF DOORS AND WINDOWS

SCALE: 1:30 METERS

SHEET NO.

SHEET CONTENT

SCHEDULE OF DOORS



PROJECT TITLE: PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

DATE July 09, 2024 DESIGNED BY: 1 WINHELLE B. GOMNO CHECKED BY: CIVIL ENGINEER REVISION NO.;

ENGR. FREDISWINDA DL DE GUZMAN HEAD , PLANNING & DESIGN DIVISION

SUBMITTED BY:

ATTY. MARK DALE DIAMOND P. PERRAL HON. MA. JOSEFINA G. BELMONTE CITY ENGINEER

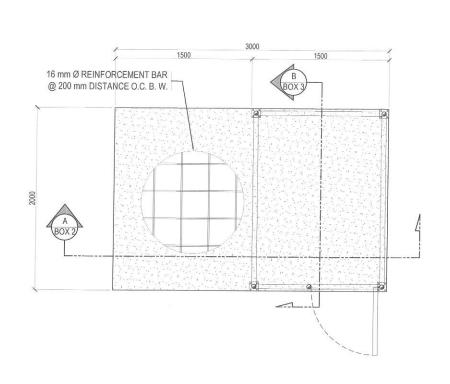
RECOMMENDING APPROVAL:

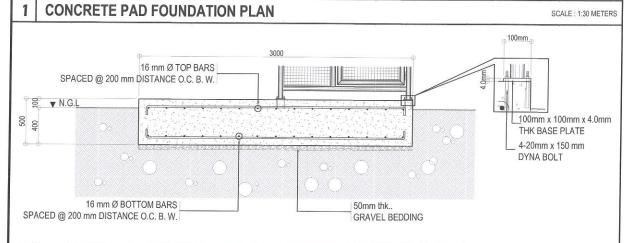
AND WINDOWS

CITY MAYOR, QUEZON CITY

APPROVED BY:

AR-12

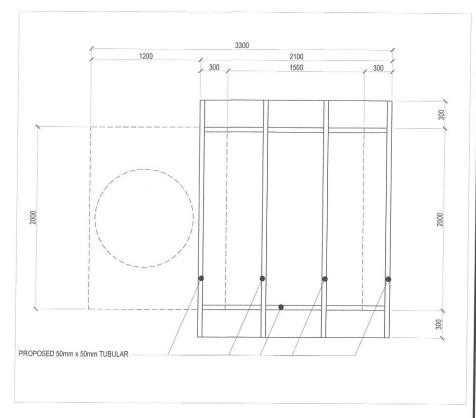




16 mm Ø TOP BARS SPACED @ 200 mm DISTANCE O.C. B. W. N.G.L. 16 mm Ø BOTTOM BARS 50mm thk... SPACED @ 200 mm DISTANCE O.C. B. W. GRAVEL BEDDING

SECTION "B" (CONCRETE PAD)

SCALE: 1:30 METERS



APPROVED BY:

SECTION "A" (CONCRETE PAD)

SCALE: 1:30 METERS

PUMP HOUSE ROOF FRAMING DETAIL

SCALE: 1:30 METERS SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon DEPARTMENT OF ENGINEERING Diliman, Central 1100 Quezon City Trunkline: +63 2 8988 4242 E-mail address: engineering @quezoncity.gov.pl

PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

WINHELLE B QUINNO CHECKED BY: CIVIL ENGINEER REVISION NO.:

DATE July 09, 2024

ENGR. FREDISWINDA DL DE GUZMAN HEAD , PLANNING & DESIGN DIVISION

SUBMITTED BY:

RECOMMENDING APPROVAL:

FOUNDATION PLAN SECTION "A" SECTION B" PUMP HOUSE ROOF ATTY. MARK DALE DIAMOND P. PERRAL, HON. MA. JOSEFINA G. BELMONTE FRAMING DETAIL

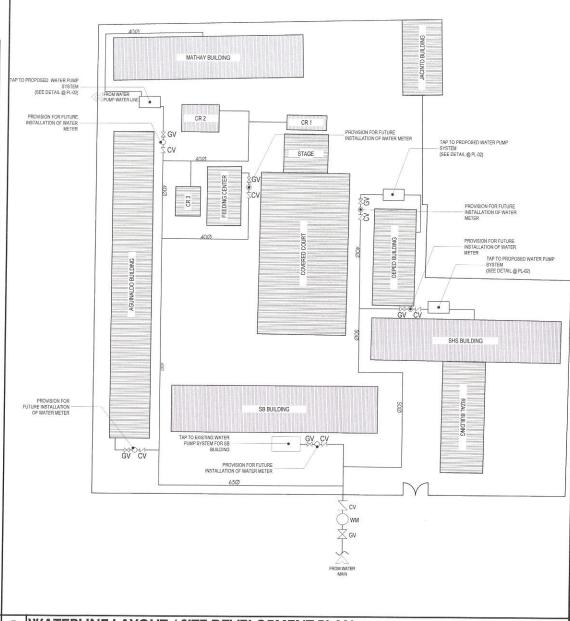
ST-01

SHEET CONTENT

- ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE UNIFORM PLUMBING CODE OF THE PHILIPPINES, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES OF THIS CITY.
- 2. ALL WORKS SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTAKEN
- ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRADES SO TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES
- 4. ALL NECESSARY PERMITS SHALL BE SECURED AND TURNED-OVER TO THE CITY
- ALL DRAWINGS AND SPECIFICATIONS SHALL BE CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL IMMEDIATELY BE INFORMED IF DISCREPANCY (IES) FOUND HEREIN.
- ALL DIMENSIONS, ELEVATIONS AND REFERENCES SHALL BE VERIFIED WITH THE ACTUAL CONDITION PRIOR TO EXECUTION.
- 7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
- ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATION WITH THE PRESENCE OF ALL PARTIES INVOLVE. RESULT SHALL BE DOCUMENTED PROPERLY.
- ALL PIPES AND LAY-OUT ARE ONLY DIAGRAMMATIC, ACTUAL LAYOUT OF PIPES AND FITTINGS, UNLESS OTHERWISE REQUIRED, SHALL BE PROPERLY CONCEALED.
- NO PIPES SHALL BE ALLOWED TO BE EMBEDDED IN STRUCTURAL MEMBERS, UNLESS OTHERWISE APPROVED.
- 11. ALL PIPES, FITTINGS, EQUIPMENT AND FIXTURE SHALL PASS THE MINIMUM STANDARDS AS PER MATERIAL SPECIFICATION WITH THE SEAL OF APPROVAL BY THE DEPARTMENT OF TRADE AND INDIVISIES.
- ALL PIPES, FITTINGS, EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATION AND INSTRUCTION.
- 13. SUPPORT AND HANGERS SHALL BE PROVIDED ACCORDINGLY.
- ALL EQUIPMENT & FIXTURES SHALL BE ENVIRONMENTAL FRIENDLY (SUCH AS WATER EFFICIENT FIXTURES)
- 15. WATERLINE
- 15.1. WATERLINE SHALL BE PPR TYPE.
- 15.2. GATE VALVE SHALL BE PPR TYPE OR APPROVED EQUIVALENT.
- 15.3. WATER METER SHALL BE ANY BRAND AND ACCEPTED BY THE WATER UTILITY COMPANIES.
- 15.4. ALL WATER PIPES EXPOSED TO WEATHER CONDITIONS HALL BE MADE OF G.I.
- 16. STORM DRAIN
- 16.1. ALL STORM DRAINAGE SLOPE SHALL BE WITHIN 0.5% TO 4%.
- 16.2. STORM DRAINAGE LINE 200MMØ AND BLOW SHALL BE PVC, 250MMØ & ABOVE SHALL BE REINFORCED CONCRETE PIPE.
- 17. SEWER LINE
- 17.1. ALL SLOPES FOR SANITARY SHALL CONFORM A 2% SLOPE.
- 17.2. SOIL, WASTE, & VENT PIPE SHALL BE (POLYVINYL CHLORIDE) PVC OR THE APPROVED EQUAL.
- 17.3. CLEAN OUTS MUST BE PROVIDED FOR SANITARY VERTICAL PIPES AND EACH HORIZONTAL PIPE SHALL BE PROVIDED WITH A CLEAN OUT AT ITS UPPER TERMINAL, EVERY CHANGE IN DIRECTION AND EVERY 30M OF A STRAIGHT PIPE. CLEANOUTS CAN BE OMITTED IF THE EFFECTIVE LENGTH IS LESS THAN 1.5M.
- 17.4. ALL DRAINAGE FIXTURE SHALL BE SUPPLIED WITH APPROPRIATE VENTILATION.
- 18. FIXTURE
- 18.1. WATER CLOSETS SHALL BE FREE STANDING TOILET COMBINATION, ROUND FRONT BOTTOM OUTLET SIPHON VORTEX OR WASH-DOWN BOWL WITH EXTENDED REAR SELF AND CLOSE COUPLED TANK WITH COVER COMPLETE WITH FITTING AND MOUNTING ACCESSORIES AND WATER EFFICIENT.
- 18.2. LAVATORY SHALL BE VITREOUS CHINA, WALL HUNG WITH REAR OVERFLOW, POCKET HANGER WITH INTEGRAL CHINA BRACKET, COMPLETE WITH STAINLESS STEEL LEVER TYPE HEAVY DUTY FAUCET, SUPPLY PIPES, P-TRAP AND MOUNTING ACCESSORIES.
- 18.3. URINAL SHALL BE VITREOUS CHINA, WALL HUNG WASH-OUT URINAL WITH EXTENDED SHIELDS AND INTEGRAL FLUSH SPREADER. CONCEALED WALL HANGER POCKETS, 19MM TOP SPUD COMPLETE FITTING AND MOUNTING ACCESSORIES, INCLUDING URINAL PARTITION.
- 18.4. GRAB BARS SHALL BE PROVIDED ON ALL PWD TOILET AND SHALL BE MADE OF TUBULAR STAINLESS STEEL PIPE PROVIDED WITH SAFETY GRIP AND MOUNTING FLANGE.
- 18.5. FLOOR DRAINS SHALL BE MADE OF STAINLESS BEEHIVE TYPE, MEASURING 100MM X 100MM AND PROVIDED WITH DETACHABLE STAINLESS STRAINER, EXPANDED METAL LATH TYPE.
- 18.6. TOILET PAPER HOLDER SHALL BE VITREOUS CHINA WALL MOUNTED. COLOR SHALL RECONCILE WITH THE ADJACENT FIXTURE AND FACING TILES.
- 18.7. SOAP HOLDER SHALL BE VITREOUS CHINA WALL MOUNTED. COLOR SHALL RECONCILE WITH THE ADJACENT FIXTURE AND FACING TILES.
- 18.8. FAUCET SHALL BE MADE OF STAINLESS STEEL LEVER TYPE HEAVY DUTY FOR INTERIOR USE.
- 18.9. HOSE BIBB SHALL BE MADE OF STAINLESS STEEL LEVER TYPE HEAVY DUTY.
- 18.10. KITCHEN SINK FAUCET SHALL BE MADE OF STAINLESS STEEL LEVER TYPE HEAVY DUTY GOOSE NECK TYPE WITH COMPLETE ACCESSORIES.

PROJECT TITLE:

	- UNION PATENT
_~	CHECK VALVE
>	GATE VALVE
GV	GATE VALVE
UP	UNION PATENT
CV	CHECK VALVE
PT	PRESSURE TANK
BP	BOOSTER PUMP
WST	WATER STORAGE TANK
TP	TRANSFER PUMP
La Company	FLOAT VALVE
4	URINAL
01	WATER CLOSET (FLUSH VALVE)
0	LAVATORY SINK
Œ	LAVATORY SINK (WALL HUNG)
8	FAUCET
Δ	SHOWER
1	FLOOR DRAIN
0	CLEANOUT
SS	SOIL STACK
VS	VENT STACK
В	BIDET
(M)	WATER METER



1 GENERAL NOTES

2 LEGEND AND SYMBOLS

3 WATERLINE LAYOUT / SITE DEVELOPMENT PLAN

RECOMMENDING APPROVAL:

Republika ng Pilipinas
Lungsod ng Quezon
Civic Centre Buddeng A. Givis Lorensus Elipsoul Road
Civic Centre Buddeng A. Givis Lorensus Elipsoul Road
Dillinas, Central 1100 Quezon Civic
Tinchine: 432 9888 9242
E-mail address: engineering @usezonoly.gov.ph

PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE , DISTRICT 3. QUEZON CITY

DESIGNED BY:

DEXTER DL. 25 MINOR

MECHANICAL ENGINEER

DESIGNED BY:

REVISION NO.:

DATE July 09, 2024

ENGR. FREDISWINDA DL DE GUZMAN
HEAD, PLANNING & DESIGN DIVISION

SUBMITTED BY:

ATTY. MARK DALE DIAMOND P. PERRAL

HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR, QUEZON CITY

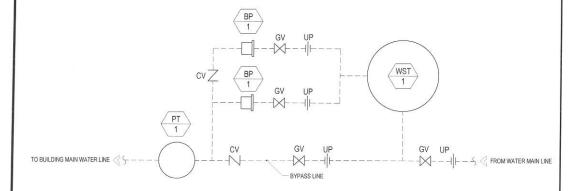
APPROVED BY:

GENERAL NOTES
LEGEND AND SYMBOLS
WATERLINE LAYOUT / SITE
DEVELOPMENT PLAN

SHEET CONTENT

PL-01 1438

SHEET NO.



DESIGNATION	LOCATION	QUANTITY	DESCRIPTION	REMARKS
$\left\langle \frac{\overline{BP}}{1} \right\rangle$	DEPED BUILDING, SHS JUMP HOUSE	6.0	BOOSTER PUMP, HORIZONTAL END SUCTION, CENTRIFUGAL, CAST IRON CONSTRUCTION STAINLESS STEEL SHAFT, MECHANICAL SEAL HARD PLASTIC IMPELLER WITH A CAPACITY OF 50 GPM AGAINST 10 FT TOTAL DYNAMIC HEAD CLOSE-COUPLED TO A 2.0HP, 220V 1Ø, 60HZ, HIGH EFFICIENT MOTOR, COMPLETE WITH MOTOR AUTOMATIC AND ALTERNATIVE ELECTRIC OPERATION	CONTRACTOR SUPPLY & INSTALL
$\left\langle \frac{\overline{PT}}{1} \right\rangle$	BUILDING, BUILDING	3.0	PRESSURE TANK, STAINLESS STEEL GA #14 WITH A CAPACITY OF 120 GALLONS, UNIT SHALL BE COMPLETE WITH INLET PORT AND OUTLET PORT, DRAIN PORT, PRESSURE GAUGE, AIR VOLUME CONTROLLER, AIR PRESSURE SWITCH SET AT 28 PSI CUT IN / CUT OF PRESSURE SETTING WITH A MOTOR FOR AUTOMATIC AND ALTERNATE OPERATION.	CONTRACTOR SUPPLY & INSTALL
$\frac{\sqrt[4]{2}}{1}$	МАТНАУ	3.0	WATER STORAGE TANK, STAINLESS STEEL CONSTRUCTION [THK WITH A CAPACITY OF 863 GALLONS, COMPLETE WITH INLET PORT, OUTLET PORT, VENT MANHOLE, DRAIN PORT & LADDER RUNG, VERTICALLY INSTALLED.	CONTRACTOR SUPPLY & INSTALL

- REPLACEMENT OF EXISTING WATER PUMP AND PRESSURE PUMP FOR DEPED BUILDING.
- WATER LINE REPLACEMENT.

2	EQUIPMENT LAYOUT AND DIAG	RAM (DEPED BUILDING, MATHAY BUILDING & SHS BUILDING)
---	---------------------------	--

4 EQUIPMENT SCHEDULE (DEPED BUILDING, MATHAY BUILDING & SHS BUILDING)

RECOMMENDING APPROVAL:

DEPARTMENT OF ENGINEERING
Civic Center Building B, City Hall Compound, Elliptical Road
Dilman, Centrol 1100 Quezon City
Trunkline: -32 8888 4242
E-mail address: engineering @quezoncity.gov.ph

PROJECT TITLE:
PROPOSED UPGRADING OF WATERLINE
SYSTEM AND REHABILITATION OF
COMFORT ROOMS AT CAMP GENERAL
EMILIO AGUINALDO HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE , DISTRICT 3, QUEZON CITY

CO.	
DESIGNED BY:	DRAWN BY DNNS
DEXTER DE ZAMUDIO MECHANICAL/ENGINEER	CHECKER
DEVISION NO :	

DATE July 09, 2024

ENGR. FREDISWINDA DL DE GUZMAN HEAD , PLANNING & DESIGN DIVISION

SUBMITTED BY:

ATTY. MARK DALE DIAMOND P. PERRAL
HON. MA. JOSEFINA G. BELMONTE
BJUDING, SHS BJUDING, MATHAY
BJUDING, SHS BJUDING, MATHAY
BJUDING, SHS BJUDING, MATHAY
BJUDING, SHS BJUDING, MATHAY ETY ENGINEER

CITY MAYOR, QUEZON CITY

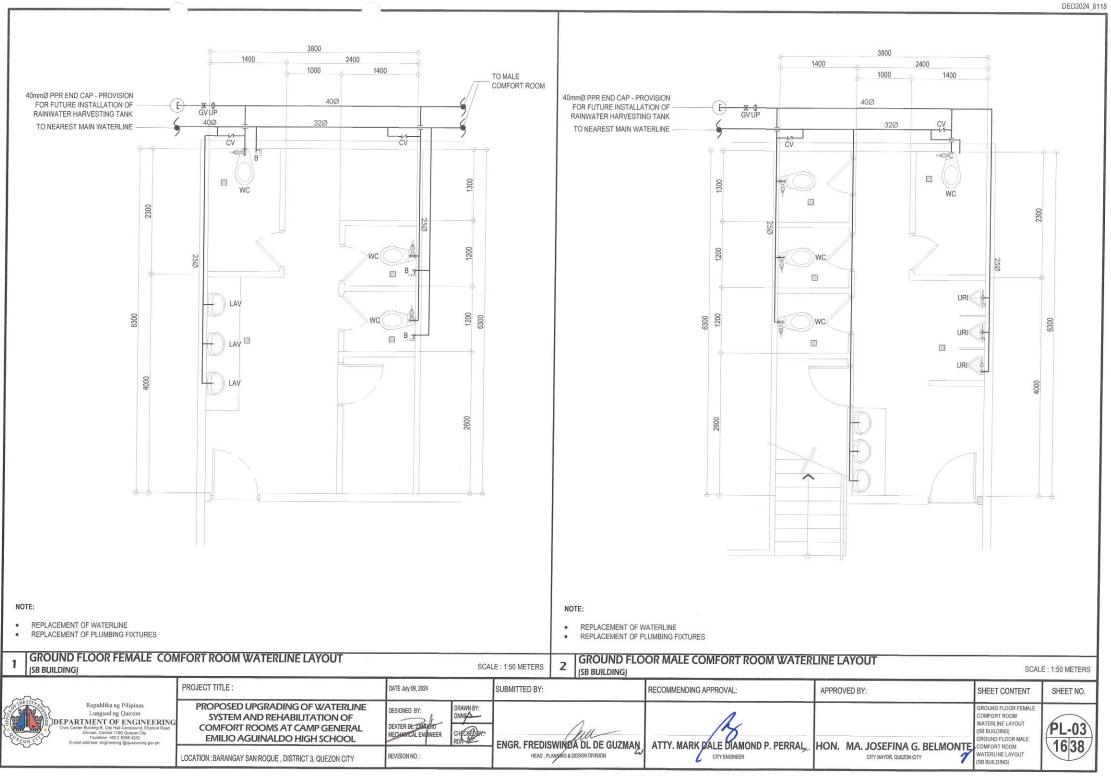
APPROVED BY:

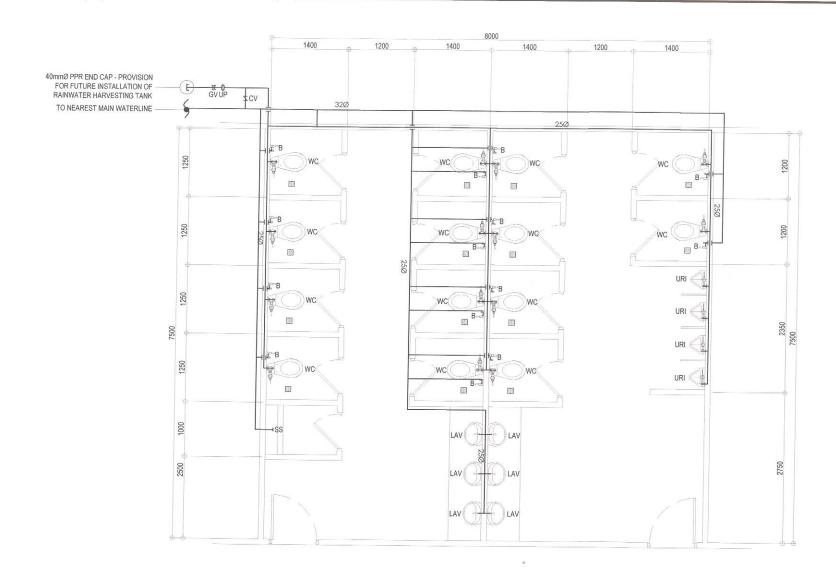
EQUIPMENT LAYOUT AND DIAGRAM (DEPED BUILDING, MATHAY BUILDING, SHS

SHEET CONTENT

PL-02

SHEET NO.





- REPLACEMENT OF WATERLINE
- REPLACEMENT OF PLUMBING FIXTURES

THIRD FLOOR FEMALE COMFORT ROOM WATERLINE LAYOUT (SB BUILDING)

PROJECT TITLE:

SCALE: 1:50 METERS

SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon DEPARTMENT OF ENGINEERING ic Center Building B, City Hall Compound, Elliptical F Dilliman, Central 1100 Quezon City Trunkline: +63 2 8988 4242 E-mail address: engineering @quezoncity.gov.ph

P	ROPOSED UPGRADING OF WATERLINE
	SYSTEM AND REHABILITATION OF
(COMFORT ROOMS AT CAMP GENERAL
	EMILIO AGUINALDO HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE , DISTRICT 3, QUEZON CITY

DRAWN BY: DESIGNED BY: DEXTER DE ZAMUDIO CHECKED BY: MECHANICAL ENGINEER REVISION NO.:

SUBMITTED BY:

DATE July 09, 2024

HEAD , PLANNING & DESIGN DIVISION

ENGR. FREDISWINDA DL DE GUZMAN ATTY. MARK DALEDIAMOND P. PERRAL HON. MA. JOSEFINA G. BELMONTE COY ENGINEER

APPROVED BY:

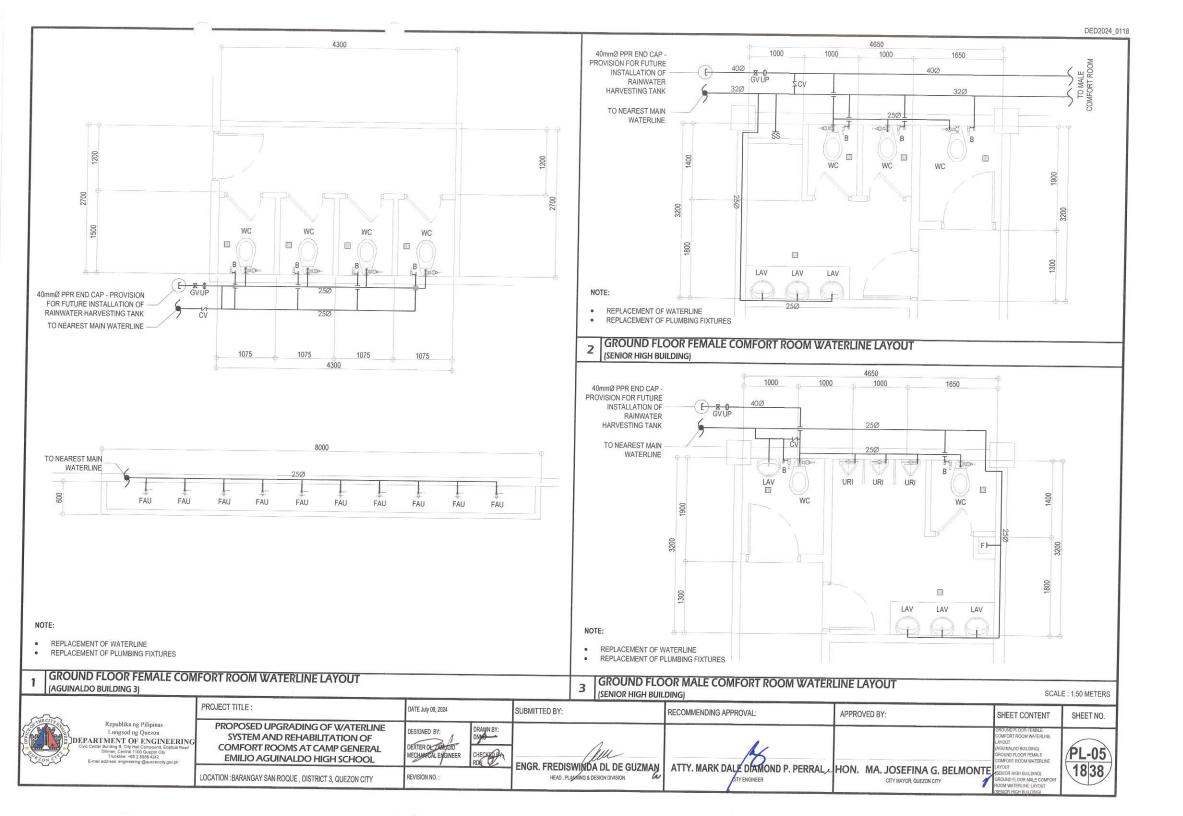
CITY MAYOR, QUEZON CITY

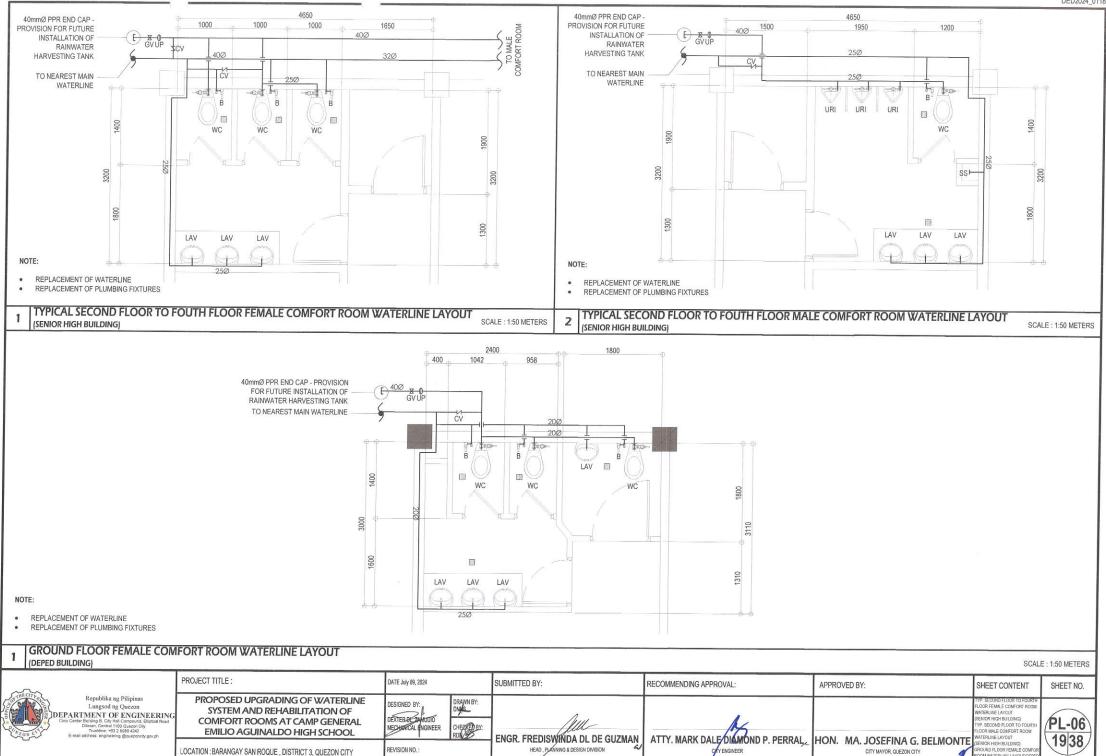
RECOMMENDING APPROVAL:

THIRD FLOOR FEMALE COMFORT ROOM WATERLINE LAYOUT (SB BUILDING)

SHEET CONTENT

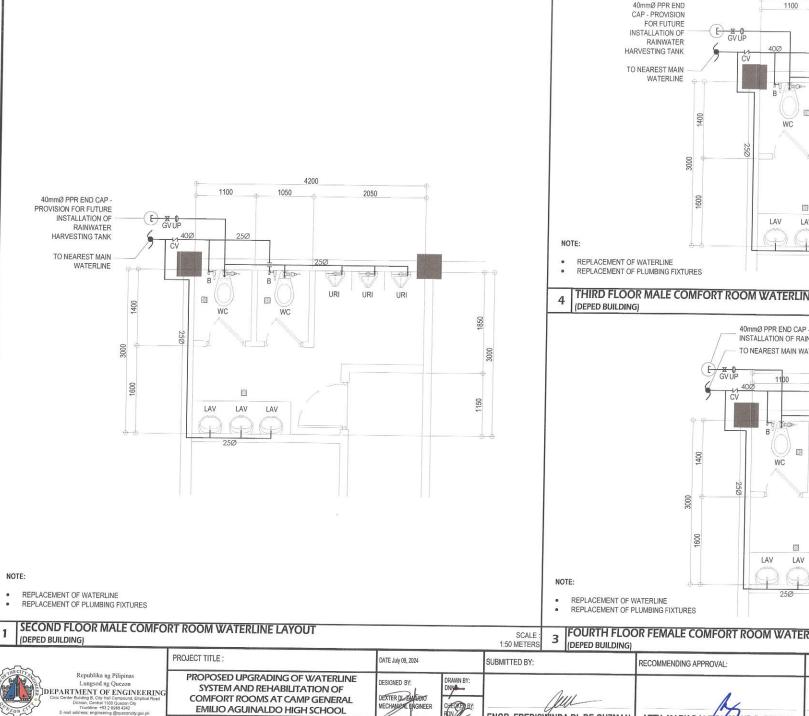
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PL-07

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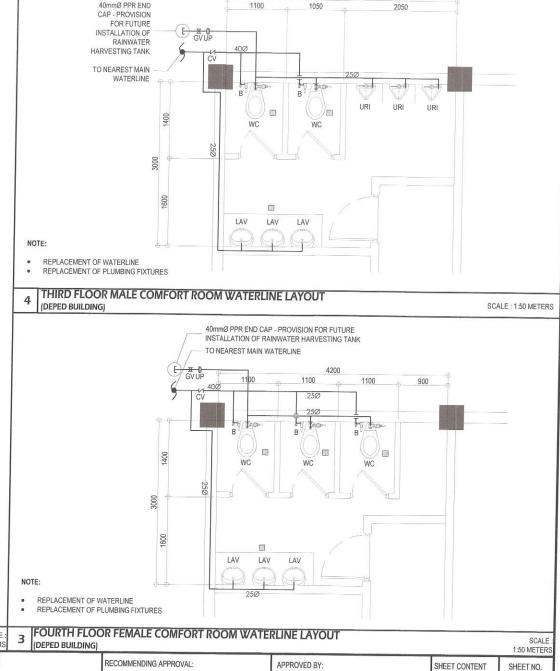


REVISION NO.:

LOCATION : BARANGAY SAN ROQUE , DISTRICT 3, QUEZON CITY

ENGR. FREDISWINDA DL DE GUZMAN

HEAD *LANNING & DESIGN DIVISION

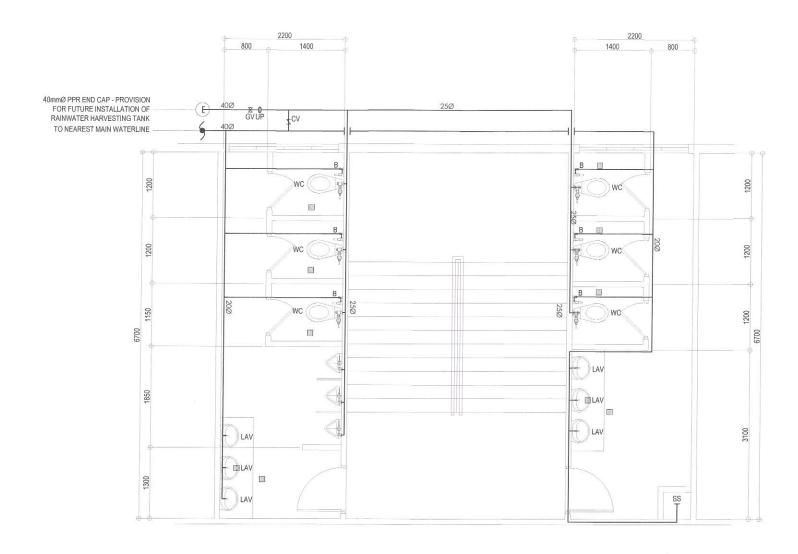


ATTY. MARK DALE DIAMOND P. PERRAL, HON. MA. JOSEFINA G. BELMONTE

CITY MAYOR, QUEZON CITY

TY ENGINEER

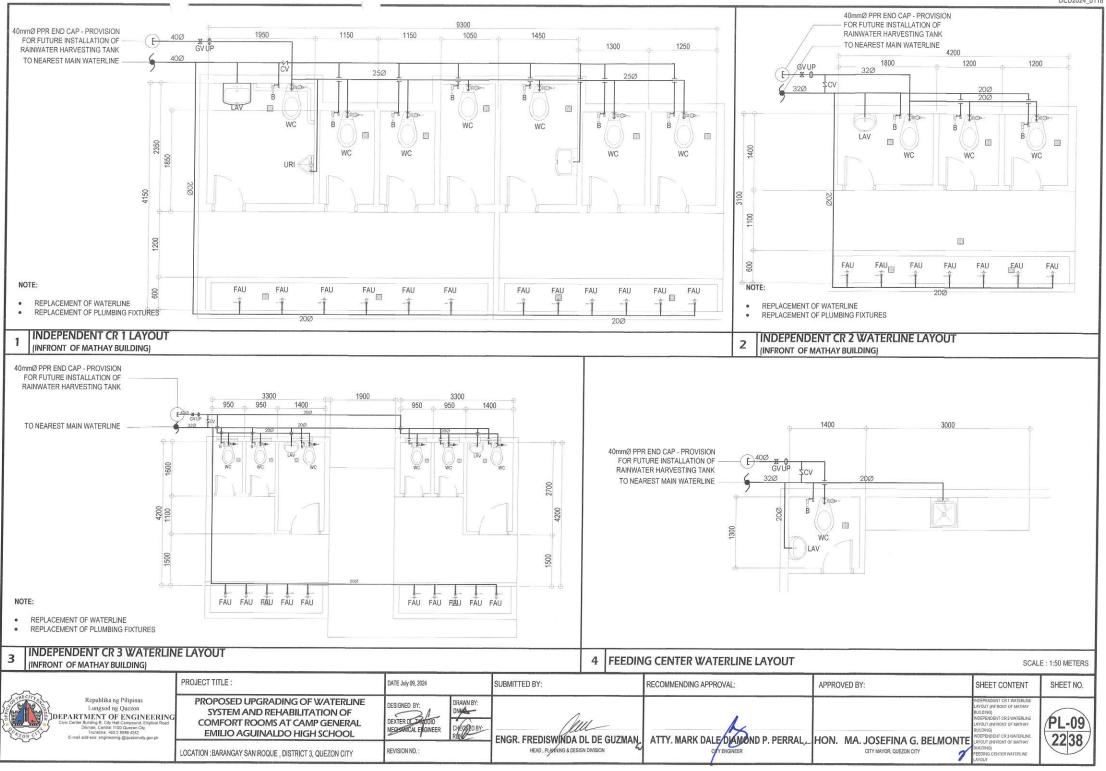
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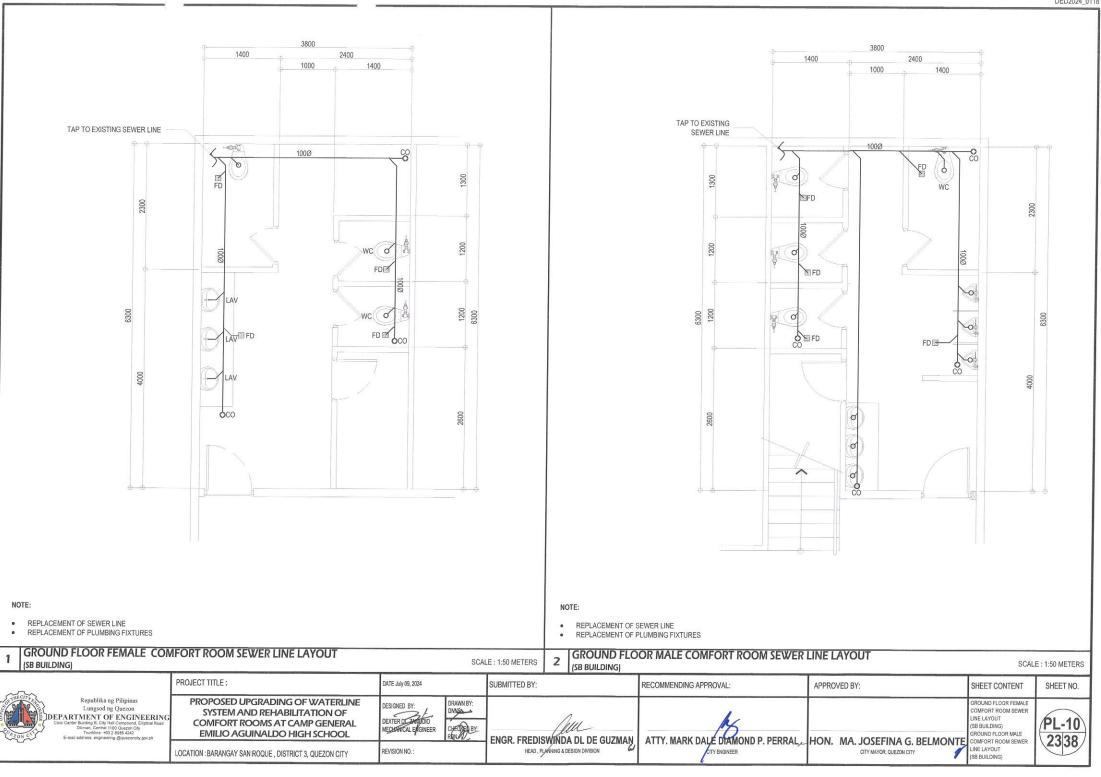


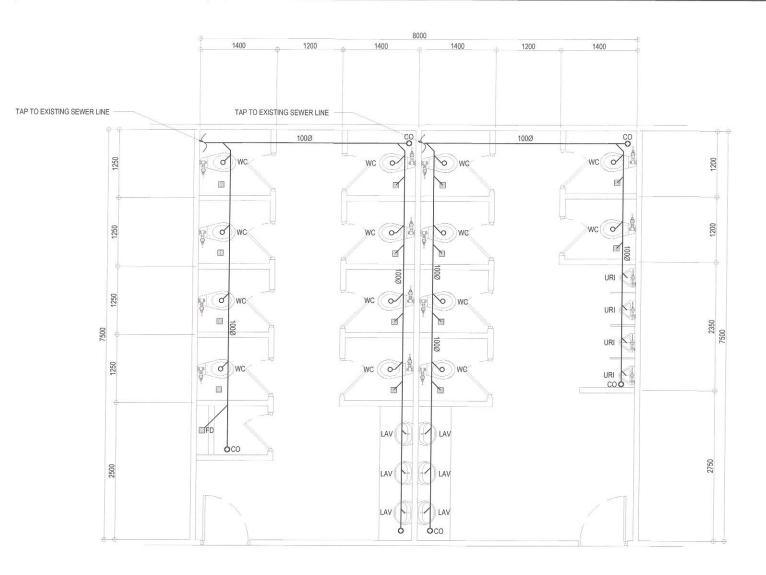
NOTE

- REPLACEMENT OF WATERLINE
- REPLACEMENT OF PLUMBING FIXTURES

TYPICAL GROUND FLOOR, SECOND FLOOR AND THIRD FLOOR MALE AND FEMALE COMFORT ROOM WATERLINE LAYOUT SCALE: 1:50 METERS (MATHAY BUILDING) PROJECT TITLE: DATE July 09, 2024 SUBMITTED BY: RECOMMENDING APPROVAL: APPROVED BY: SHEET CONTENT SHEET NO. Republika ng Pilipinas PROPOSED UPGRADING OF WATERLINE DRAWN BY: DNN9 DESIGNED BY: Lungsod ng Quezon SECOND FLOOR AND SYSTEM AND REHABILITATION OF DEXTER DE ZAMUDIO MECHANICAL ENGINEER DEPARTMENT OF ENGINEERING Chic Gente Building B. (bl) Hall Compound, Elliptical Read Dilliman, Central 1/100 Quezon City Trunkline: 422 8888 4242 E-mail address: engineering @quezoncity.gov.ph THIRD FLOOR MALE PL-08 COMFORT ROOMS AT CAMP GENERAL CHE CERRY. AND FEMALE COMFORT ROOM WATERLINE EMILIO AGUINALDO HIGH SCHOOL ATTY. MARK DALE DIMOND P. PERRAL HON. MA. JOSEFINA G. BELMONTE 2138 ENGR. FREDISWINDA DL DE GUZMAN (MATHAY BUILDING) REVISION NO.: HEAD , PLANNING & DESIGN DIVISION LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY CITY ENGINEER CITY MAYOR, QUEZON CITY







NOTE:

- REPLACEMENT OF SEWER LINE
- REPLACEMENT OF PLUMBING FIXTURES

1 THIRD FLOOR FEMALE COMFORT ROOM SEWER LINE LAYOUT (SB BUILDING)

SCALE: 1:50 METERS

SHEET NO.

SHEET CONTENT



PROJECT TITLE:	
PRO	POSED UPGRADING OF WATERLINE
	SYSTEM AND REHABILITATION OF
CC	DMFORT ROOMS AT CAMP GENERAL
Е	MILIO AGUINALDO HIGH SCHOOL
LOCATION	:BARANGAY SAN ROQUE , DISTRICT 3, QUEZON CITY



SUBMITTED BY:

DATE July 09, 2024



RECOMMENDING APPROVAL:

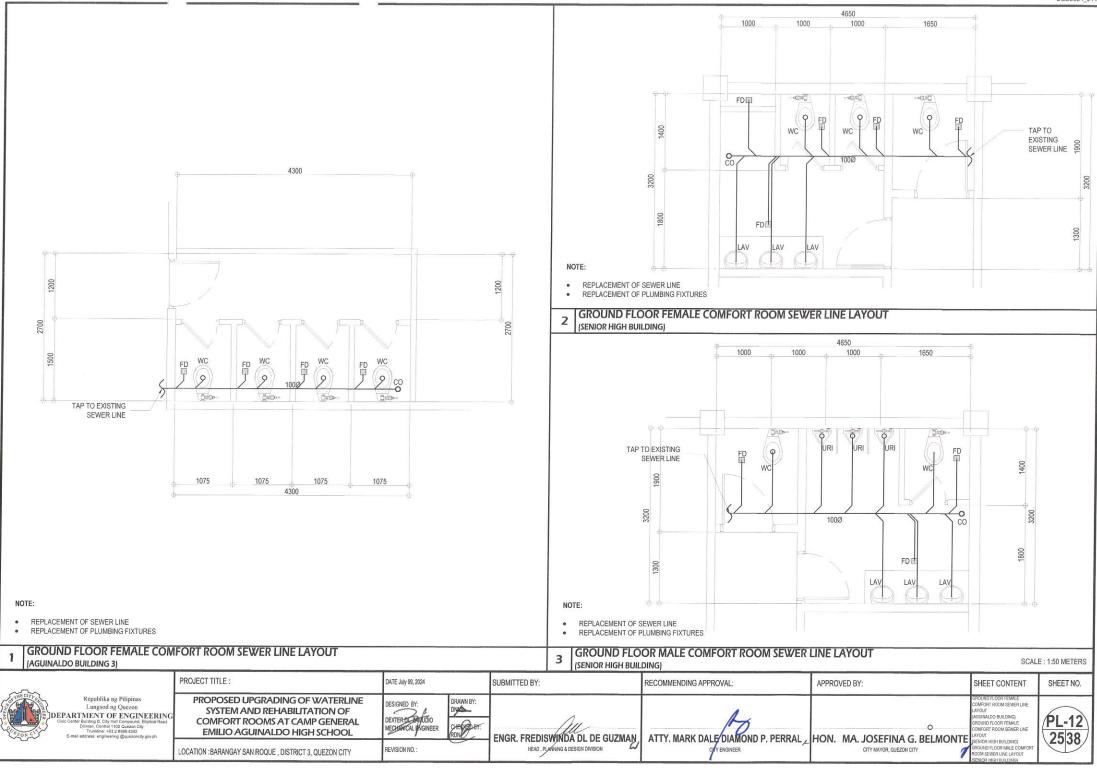
THIRD FLOOR FEMALE COMFORT ROOM SEWEI LINE LAYOUT (SB BUILDING)

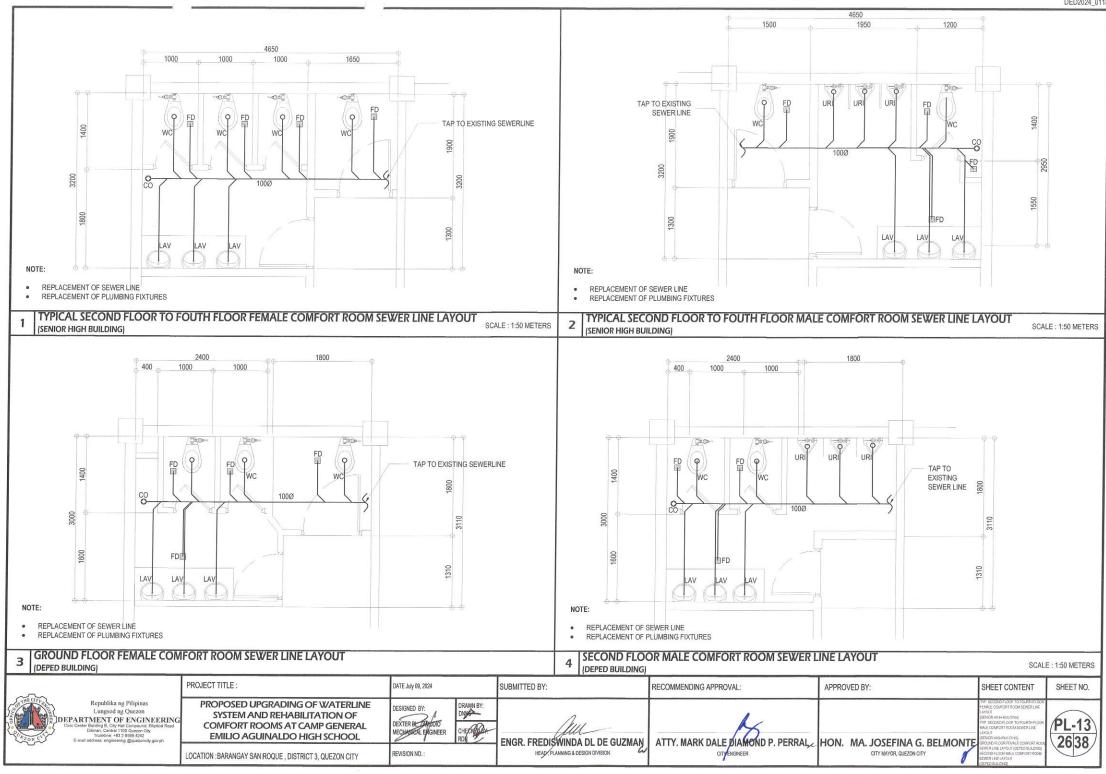
HON. MA. JOSEFINA G. BELMONTE

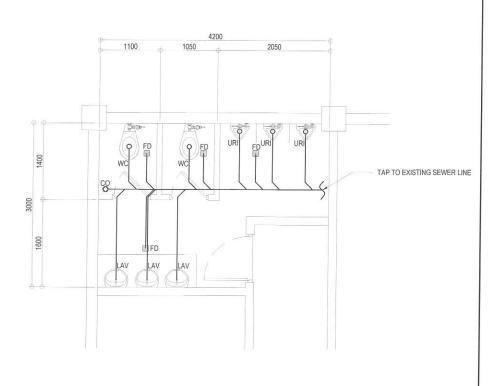
CITY MAYOR, QUEZON CITY

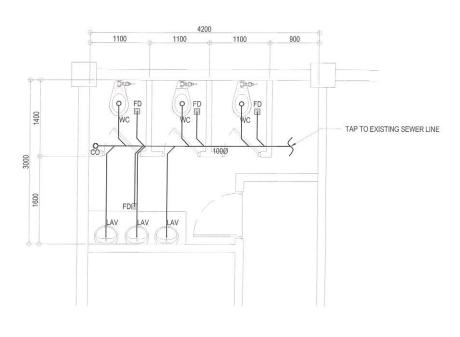
APPROVED BY:

PL-11 24 38









- REPLACEMENT OF SEWER LINE
- REPLACEMENT OF PLUMBING FIXTURES

THIRD FLOOR MALE COMFORT ROOM SEWER LINE LAYOUT (DEPED BUILDING)

PROJECT TITLE:

FOURTH FLOOR FEMALE COMFORT ROOM WATERLINE LAYOUT 3 1:50 METERS (DEPED BUILDING)

RECOMMENDING APPROVAL:

REPLACEMENT OF SEWER LINE
 REPLACEMENT OF PLUMBING FIXTURES

1:50 METERS SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon DEPARTMENT OF ENGINEERING
Givic Center Building B. (By Hall Compound, Elliptical Road
Dimma, Central 1100 Quezon Chy
Trunkline - 82 8988 4242
E-mail address: engineering @quezoncity.gov.ph PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

LOCATION: BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

DRAWN BY: DNNS CHECKED SO RDN DESIGNED BY: DEXTER DE ZATUDIO MECHANICAL ENGINEER REVISION NO.:

DATE July 09, 2024

SCALE

SUBMITTED BY:

NOTE:

ENGR. FREDISWINDA DL. DE GUZMAN,
HEAD, PLANNING & DESIGN DIVISION

ATTY. MARK DALE DIAMOND P. PERRAL

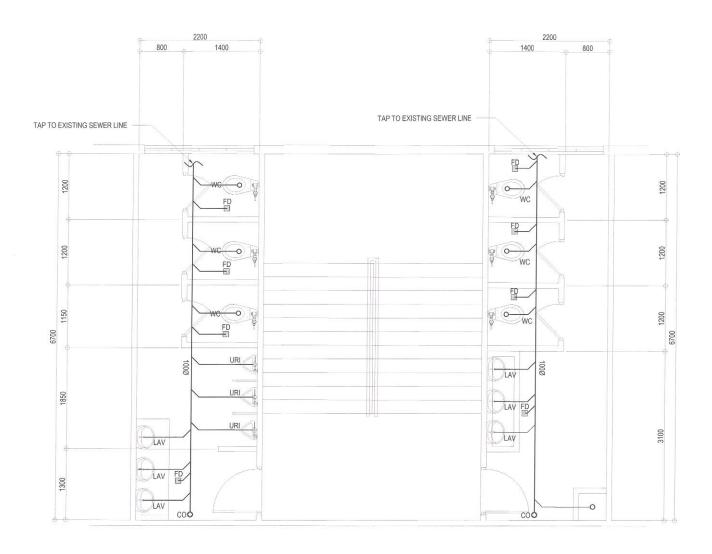
CITY ENGINEER

HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

APPROVED BY:

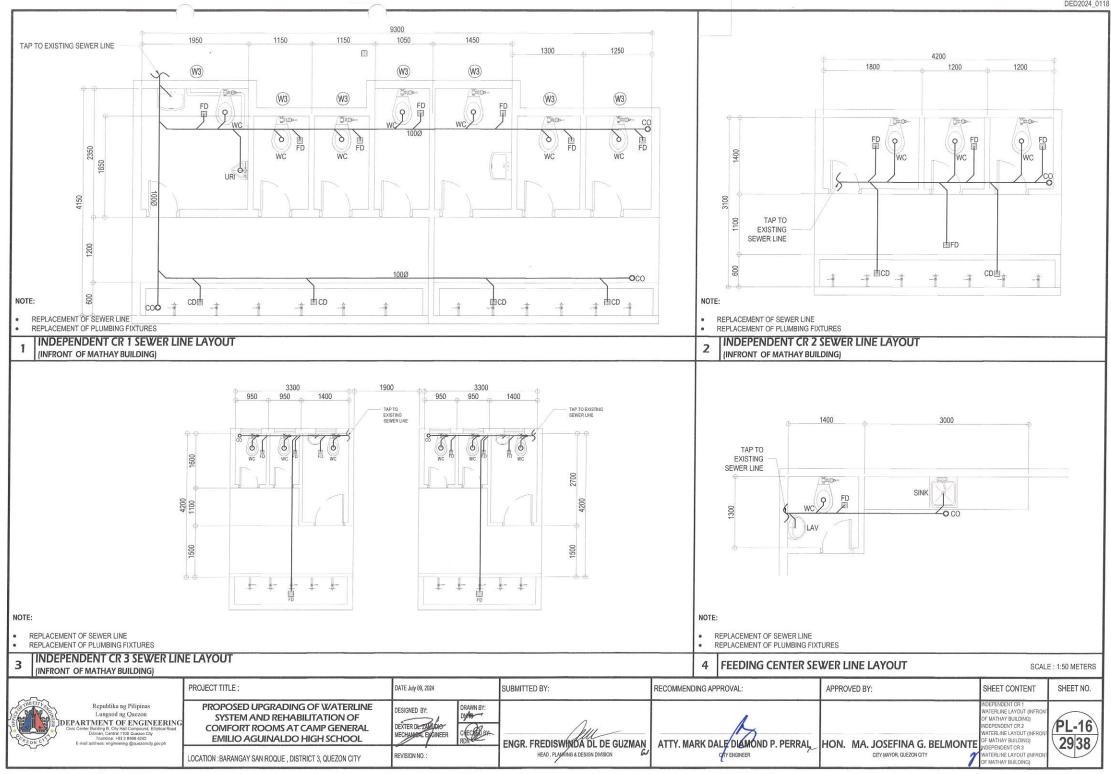
THIRD FLOOR FEMALE COMFORT ROOM SEWER LINE LAYOUT (DEPED BUILDING) FOURTH FLOOR FEMALE COMFOI ROOM SEWER LINE LAYOUT (DEPED BUILDING) PL-14

SHEET CONTENT



- REPLACEMENT OF SEWER LINE
 REPLACEMENT OF PLUMBING FIXTURES

1 TYPICAL GROUND FLOOR, SECO	OND FLOOR AND THIRD FLOOR MALE AND	FEMALE COMFORT R	OOM SEWER LINE LAYOUT			SCAL	.E : 1:50 METERS
	PROJECT TITLE:	DATE July 09, 2024	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
Republika ng Pilipinas Lungsod ng Quezon Lungsod ng Quezon DEPARTMENT OF ENGINEERING Gave Gener Busidng B. City has Compound. Engious Read Department of the Compound Compound Compound Translose. 452 2 888-4424 Email address. engineering @exactority gov.pt	PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL	DESIGNED BY: DEXTER DE ANDRO DINNER DESIGNED BY: DINNER CHECKEN AV.	ENGR FREDISWANDA DI DE GUZMAN	ATTY. MARK DAVE DIAMOND P. PERRAL	HON MA JOSEFINA G RELMONTE	TYP, GROUND FLOOR, SECOND FLOOR AND THIRD FLOOR MALE AND FEMALE COMFORT ROOM SEWER LINE LAYOUT	PL-15 2838
	LOCATION : BARANGAY SAN ROQUE , DISTRICT 3, QUEZON CITY	REVISION NO.:	HEAD, PLANNING & DESIGN DIVISION	CITY ENGINEER	CITY MAYOR, QUEZON CITY 7	(MATHAY BUILDING)	2030

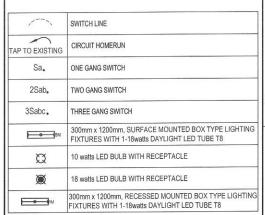


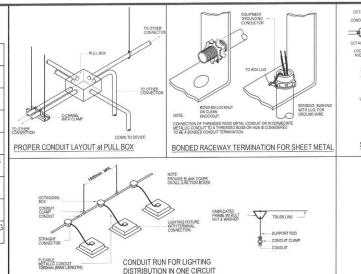
- LATEST EDITION OF THE PHILIPPINE ELECTRICAL ALL WORKS SHALL BE EXECUTED IN ACCORDANCE 1 CODE, PHILIPPINE ELECTRONICS CODE, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES OF THIS CITY
- 2. ALL WORKS SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTAKEN.
- 3. ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRADES SO TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES.
- 4. ALL NECESSARY PERMITS SHALL BE SECURED AND TURNED-OVER TO THE CITY.
- 5. ALL DRAWINGS AND SPECIFICATIONS SHALL BE CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL IMMEDIATELY BE INFORMED IF DISCREPANCY (IES) FOUND HEREIN.
- 6. ALL DIMENSIONS, ELEVATIONS AND REFERENCES, SHALL BE VERIFIED WITH THE ACTUAL CONDITION PRIOR TO
- SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
- 8. ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATIONS WITH THE PRESENCE OF ALL PARTIES INVOLVE/ RESULTS SHALL BE DOCUMENTED PROPERLY.
- 9. ALL PIPES AND LAYOUT ARE ONLY DIAGRAMMATIC, ACTUAL LAYOUT OF PIPES AND FITTINGS, UNLESS OTHERWISE REQUIRED, SHALL BE PROPERLY CONCEALED.
- 10.NO PIPES SHALL BE ALLOWED TO BE EMBEDDED IN STRUCTURAL MEMBERS, UNLESS OTHERWISE APPROVED. 11.ALL PIPES, FITTINGS, EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- 12 SUPPORTS AND HANGERS SHALL BE PROVIDED ACCORDINGLY.
- 13.ALL EQUIPMENTS AND FIXTURES SHALL BE ENVIRONMENTAL FRIENDLY.
- 14.INSTALLATION OF SERVICE ENTRANCE
- 14.1. THE TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, 60 HERTZ, 230V AC NOMINAL
- 14.2. THE SERVICE ENTRANCE EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
- 14.3. THE MAIN OVERCURRENT PROTECTION DEVICE SHALL BE OF THERMAL MAGNETIC MCCB IN NEMA 3R WEATHERPROOF ENCLOSURE.
- 15.INSTALLATION OF LIGHTING AND POWER SYSTEM
 - 15.1. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL BE 3.5 SQ. MM. THHN/THWN COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 3.5 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

LINE 1 - RED LINE 2 - BLACK NEUTRAL - WHITE

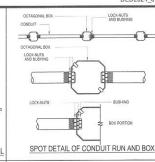
- 15.2. ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE IMC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILIMETERS AND/OR CONDUIT HANGER SUPPORTS EVERY 1500 MILIMETERS
- 15.3. CONDUITS IN NO CASE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD MADE BY USING HYDRAULIC BENDERS. MINIMUM BENDING RADIUS MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- 15.4. ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 230 V. 15.5. PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFCI" ON
- 15.6. ALL METALLIC CONDUITS, SWITCHES, LIGHTING FIXTURES, PANELBOARDS, EQUIPMENTS AND NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED AND BONDED.
- 15.7. THE GROUND RESISTANCE SHALL NOT BE MORE THAN 5 OHMS.
- 15.8. ALL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:
- LIGHTING SWITCH
- 1400 MM ABOVE FLOOR FINISH
- CONVENIENCE OUTLET - 300 MM ABOVE ELOOR FINISH - 150MM ABOVE WORKING COUNTER
- PANELBOARD AND CABINETS 1400 MM ABOVE FLOOR FINISH - 150 MM TOP OF DOOR JAMB **EXIT LIGHT**
- 2000 ABOVE FLOOR EMERGENCY **EMERGENCY LIGHT**
- 15.1. PULL BOXES SHALL BE WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON PLANS.
- 15.2. FOR EACH SPARE BRANCH CIRCUIT IN PANELBOARD, PROVIDE ONE 20MM DIAMETER EMPTY CONDUIT TERMINATED TO 100MM OCTAGONAL; BOX ABOVE CEILING. MINIMUM SIZE OF PULLBOX SHALL BE 150MM X150MM X 100MM.
- 15.3. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH INTERRUPTING CAPACITY AS INDICATED IN THE PLANS. PANELBOARDS SHALL BE GALVANIZED SHEET POWDER COATED GAGE 16 MINIMUM.
- 15.4. FEEDER AND BRANCH CIRCUIT CONDUCTORS IN CABLE TRAYS SHALL BE GROUPED, BONDED AND TAGGED TO INDICATE CLEARLY THE ELECTRICAL CHARACTERISTICS SUCH AS CIRCUIT NUMBER AND PANEL
- 15.5. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL SEQUENCES AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.
- 15.6. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED. IT MUST BE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE

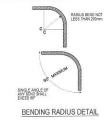
PROJECT TITLE:





(FOR EXPOSED OR INSIDE DROP-CEILING INSTALLATION)





LEGEND AND SYMBOLS

NOT TO SCALE

MISCELLANEOUS DETAILS

NOT TO SCALE

					CIRCUIT	SIZE OF	
KT. NO.	VOLTS	LOAD DESCRIPTION	LOAD AMPERE	VOLT AMPERE	BREAKER	WIRES	CONDUITS
1	220	1-2 HP BOOSTER	12.00	2,640	20AT, 2P, Bolt-on	2-3.5mm² THHN + 1-2.0mm² THW (G)	20mmØ PVC
2	220	1-2 HP BOOSTER	12.00	2,640	20AT, 2P, Bolt-on	2-3.5mm² THHN + 1-2.0mm² THW (G)	20mmØ PVC
		TOTAL	24.00	5,280			

PANEL: BOOSTER PUMP 2 (TAP TO THE NEAREST EXISTING FEEDER LINE) MAIN: 40AT, 50AF, 2P

Use: 2-8.0mm2 THW + 1-5.5mm2 TW (G) in 20mmØ IMC

10KAIC, 240V, MCCB, NEMA 3I SIZE OF CKT. NO. VOLTS LOAD AMPERE VOLT AMPERE BREAKER CONDUITS WIRES 2,640 20AT, 2P, Bolt-on 2-3.5mm² THHN + 1-2.0mm² THW (G) 20mmØ PVC 12.00 20AT, 2P, Bolt-on 2-3.5mm2 THHN + 1-2.0mm2 THW (20mmØ PVC 1-2 HP BOOSTER 24.00

24 AMPERE

Use: 2-8.0mm² THW + 1-5.5mm² TW (G) in 20mmØ IMC

PANEL: BOOSTER PUMP 3 (TAP TO THE NEAREST EXISTING FEEDER LINE) MAIN: 40AT, 50AF, 2P

	// / / / / / / / / / / / / / / / / / / /	THAT SHOW OF THE SAME AND ADDRESS OF THE SAME OF THE S			CIRCUIT	SIZE OF	
CKT. NO.	VOLTS	LOAD DESCRIPTION	LOAD AMPERE	VOLT AMPERE	BREAKER	WIRES	CONDUITS
1	220	1-2 HP BOOSTER	12.00	2,640	20AT, 2P, Bolt-on	2-3.5mm2 THHN + 1-2.0mm2 THW (G)	20mmØ PVC
2	220	1-2 HP BOOSTER	12.00	2,640	20AT, 2P, Bolt-on	2-3.5mm ² THHN + 1-2.0mm ² THW (G)	20mmØ PVC
		TOTAL	24.00	5 280			

24 AMPERI Feeder Line:

Use: 2-8.0mm² THW + 1-5.5mm² TW (G) in 20mmØ IMC

GENERAL NOTES

NOT TO SCALE

SCHEDULE OF LOADS

DRAWN BY:

NOT TO SCALE SHEET NO.

SHEET CONTENT

EGEND AND SYMBOLS

MISCELL ANEOUS DETAIL

SCHEDULE OF LOADS



Republika ng Pilipinas Lungsod ng Quezon DEPARTMENT OF ENGINEERING mail address: engineering @quezoncity.gov

PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE . DISTRICT 3. QUEZON CITY

JENNETHAY GIVEAU ELECTRICAL ENGINEER

REVISION NO

DATE July 09, 2024

CHECKED BY: ENGR. FREDISWINDA DL DE GUZMAN HEAD , PLANNING & DESIGN DIVISION

SUBMITTED BY:

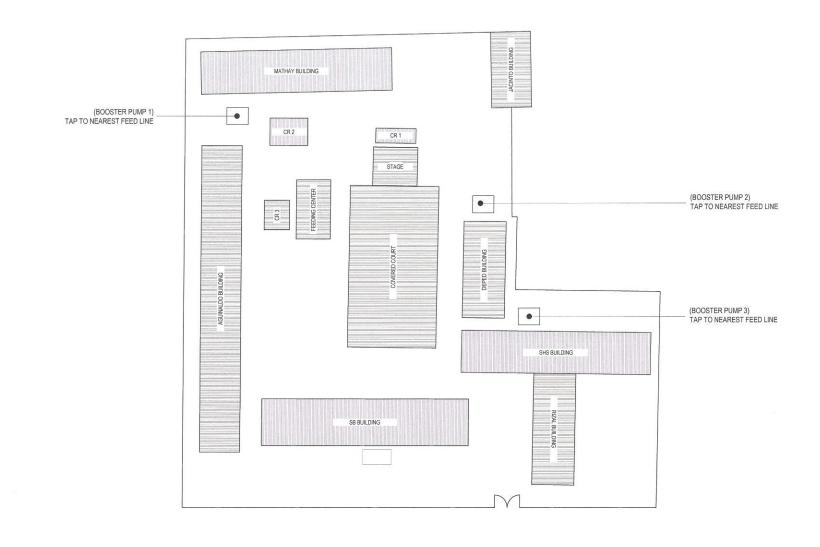
ATTY. MARK DALE DAMOND P. PERRAL,

RECOMMENDING APPROVAL:

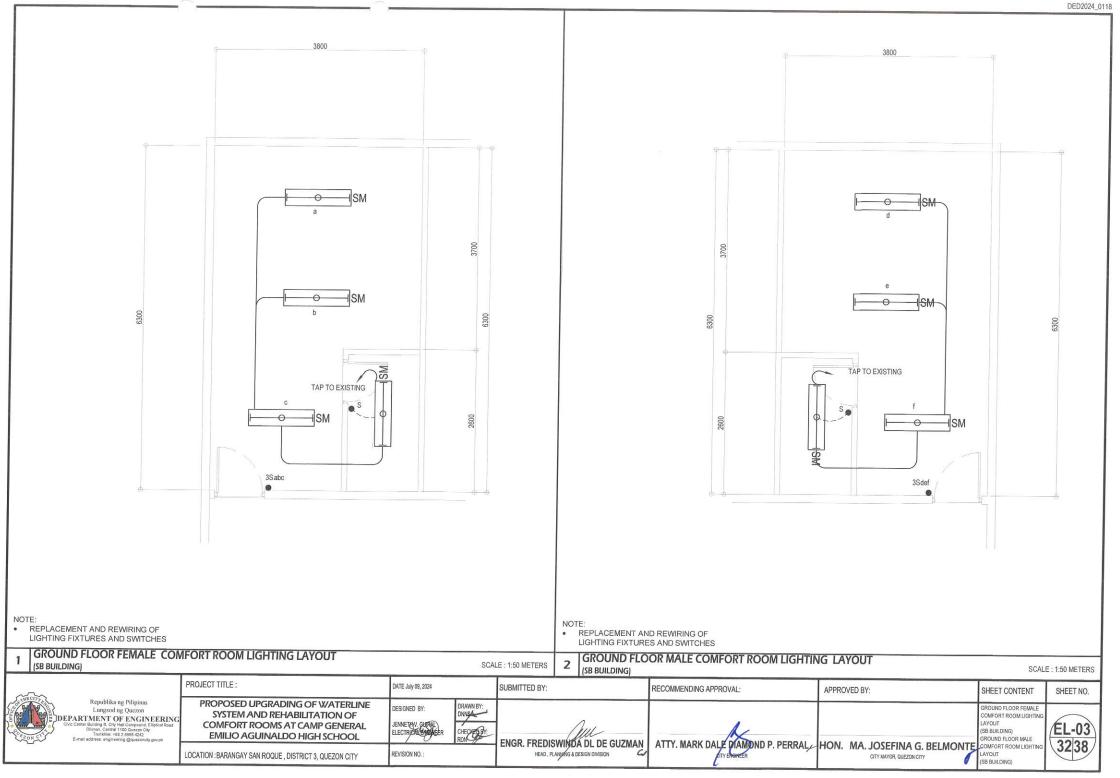
HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

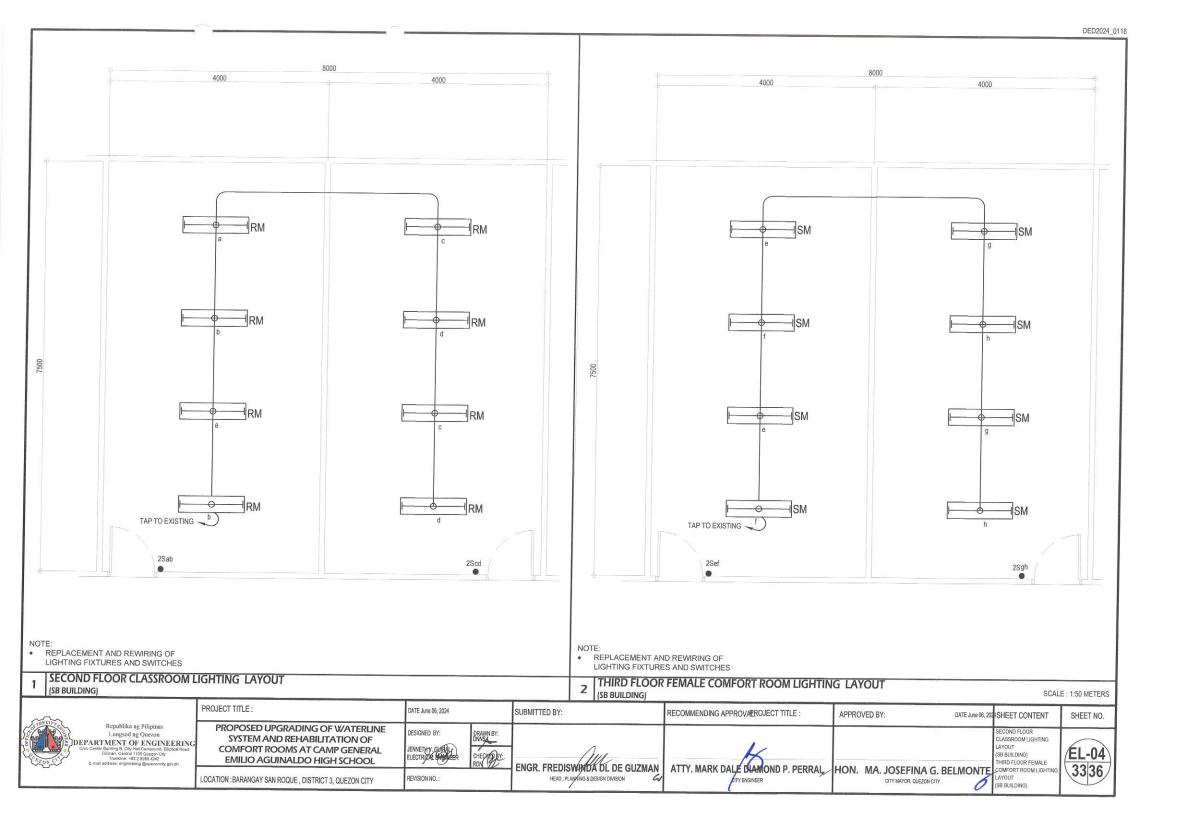
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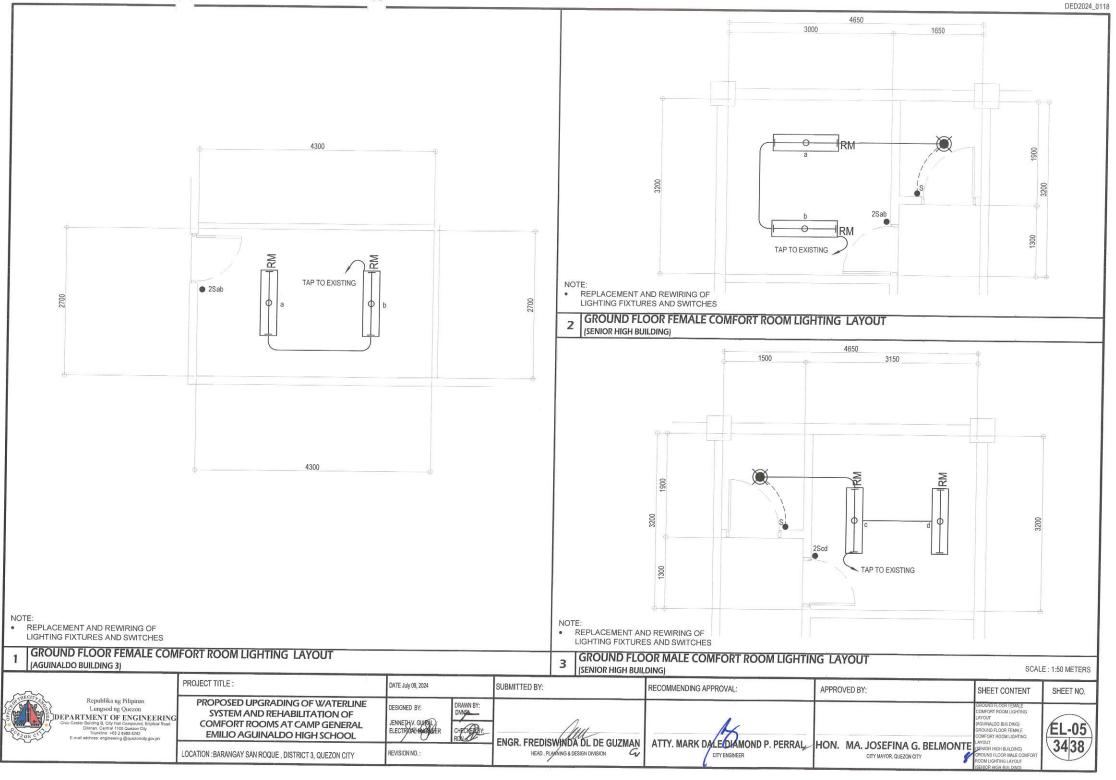
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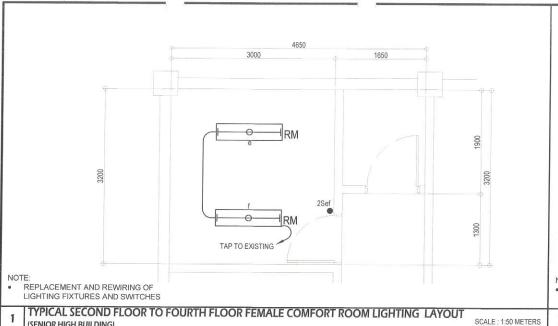


1	FEEDER LINE / SITE DEVELOPM	ENT PLAN							NOT TO SCALE
		PROJECT TITLE:	DATE July 09, 2024		SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	Republika ng Pilipinas Lungsod ng Quezon Lungsod ng Quezon DEPARTMENT OF ENGINEERING Ova Cente Busino, 18-2 Sept 4nd Compount Engoa Raud District, 18-2 Sept 4d Compount Engoa Raud Tundine, 452 Sept 4d Compount Engoa Raud Tundine, 452 Sept 4d Compount Engoa Raud Email address: engoaren @userend.gov ger h	PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL	DESIGNED BY: JENNETA V COURAY ELECTRICAL MANAGER	DRAWN BY: DNNA CHECKED BY: RIN	ENGR. FREDISWINDA DL DE GUZMAN	ATTY, MARK DALE DOMOND P. PERRAL	HON MA JOSEFINA G REI MONTE	FEEDER LINE / SITE DEVELOPMENT PLAN	EL-02 3138
		LOCATION : BARANGAY SAN ROQUE , DISTRICT 3, QUEZON CITY	REVISION NO. :		HEAD , PLANNING & DESIGN DIVISION GV	CITY ENGINEER	CITY MAYOR, QUEZON CITY		100









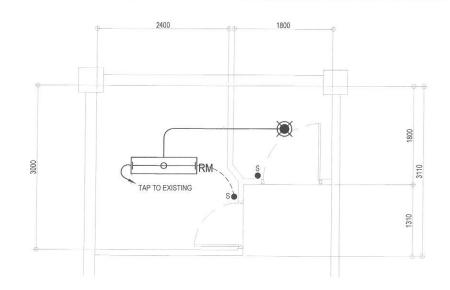
4650 1500 3150 TAP TO EXISTING REPLACEMENT AND REWIRING OF LIGHTING FIXTURES AND SWITCHES

(SENIOR HIGH BUILDING)

2

TYPICAL SECOND FLOOR TO FOURTH FLOOR MALE COMFORT ROOM LIGHTING LAYOUT (SENIOR HIGH BUILDING)

SCALE: 1:50 METERS



 REPLACEMENT AND REWIRING OF LIGHTING FIXTURES AND SWITCHES

GROUND FLOOR FEMALE COMFORT ROOM LIGHTING LAYOUT (DEPED BUILDING)

PROJECT TITLE:

SCALE: 1:50 METERS

SHEET NO.

Republika ng Pilipinas Lungsod ng Quezon DEPARTMENT OF ENGINEERING iriding B, City Half Compound, Elliptical risan, Central 1100 Quezon City Trunkline: +63 2 8988 4242 dress: engineering @quezoncity.gov.ph

PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

LOCATION: BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

DRAWN BY: DNNS DESIGNED BY: JENNETH V. GUIRAVO ELECTRICAL ENGINEER REVISION NO.:

DATE July 09, 2024

CHECKED BY: ENGR. FREDISWINDA DL DE GUZMAN HEAD , PLANNING & DESIGN DIVISION

SUBMITTED BY:

ATTY. MARK DALE DIAMOND P. PERRAL CITY ENGINEER

RECOMMENDING APPROVAL:

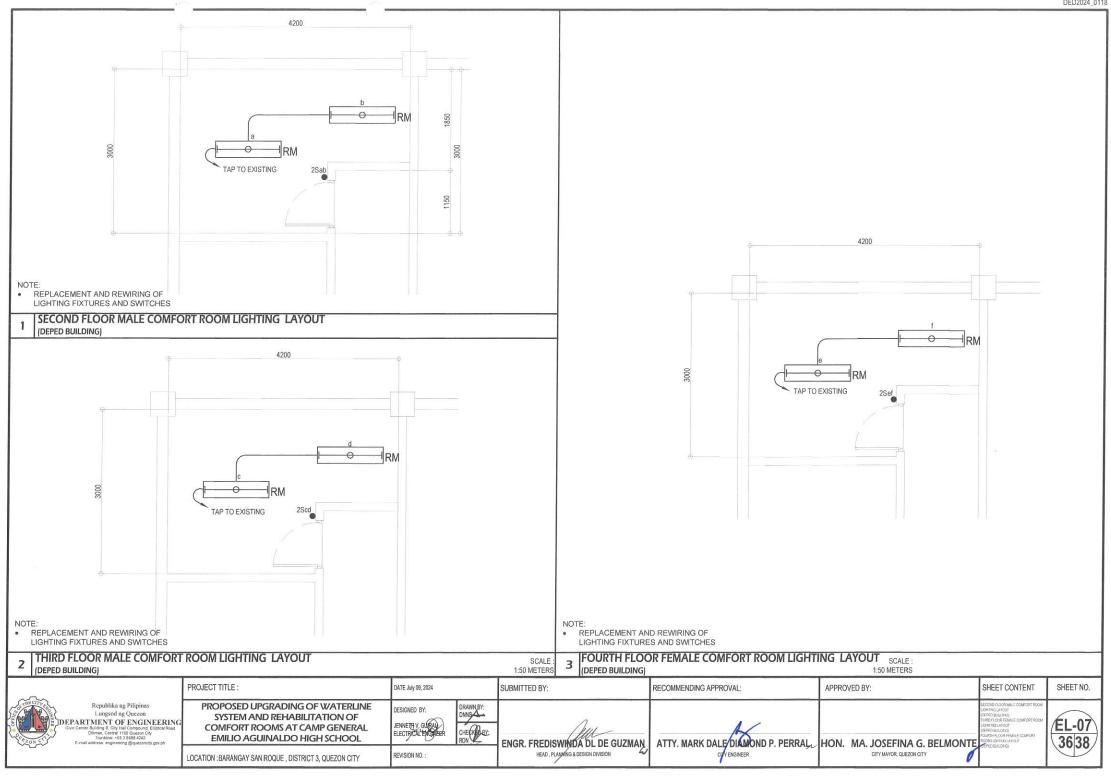
HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

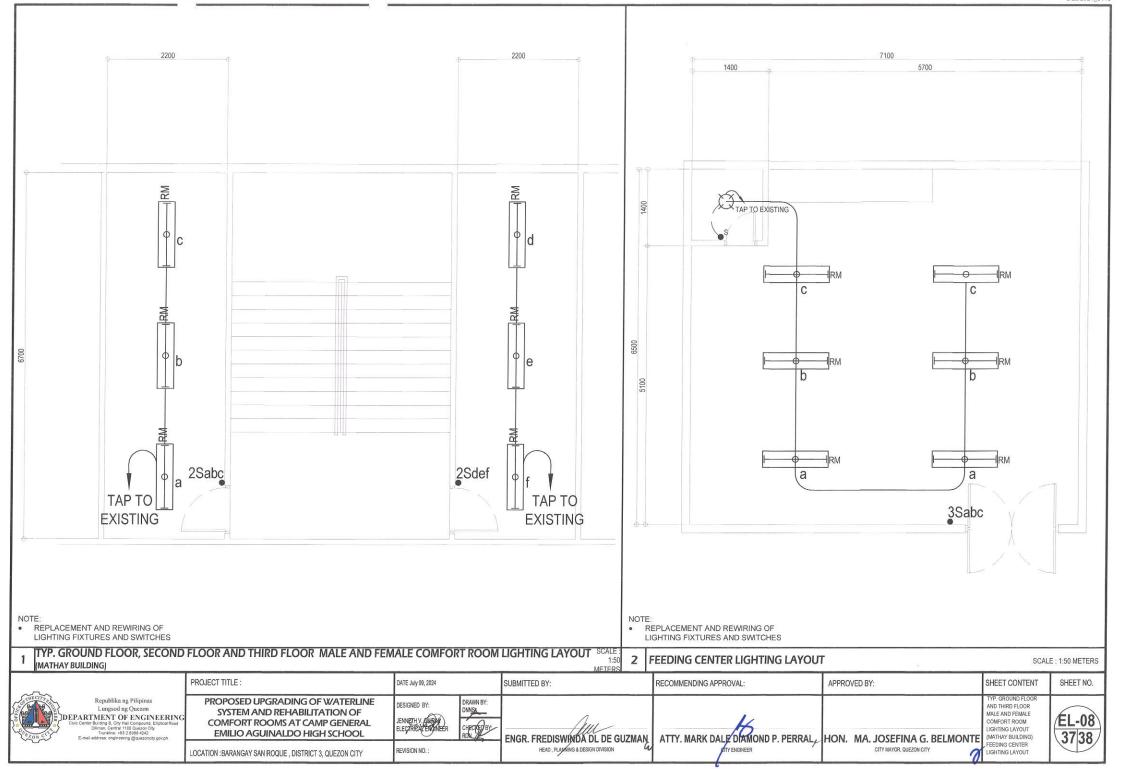
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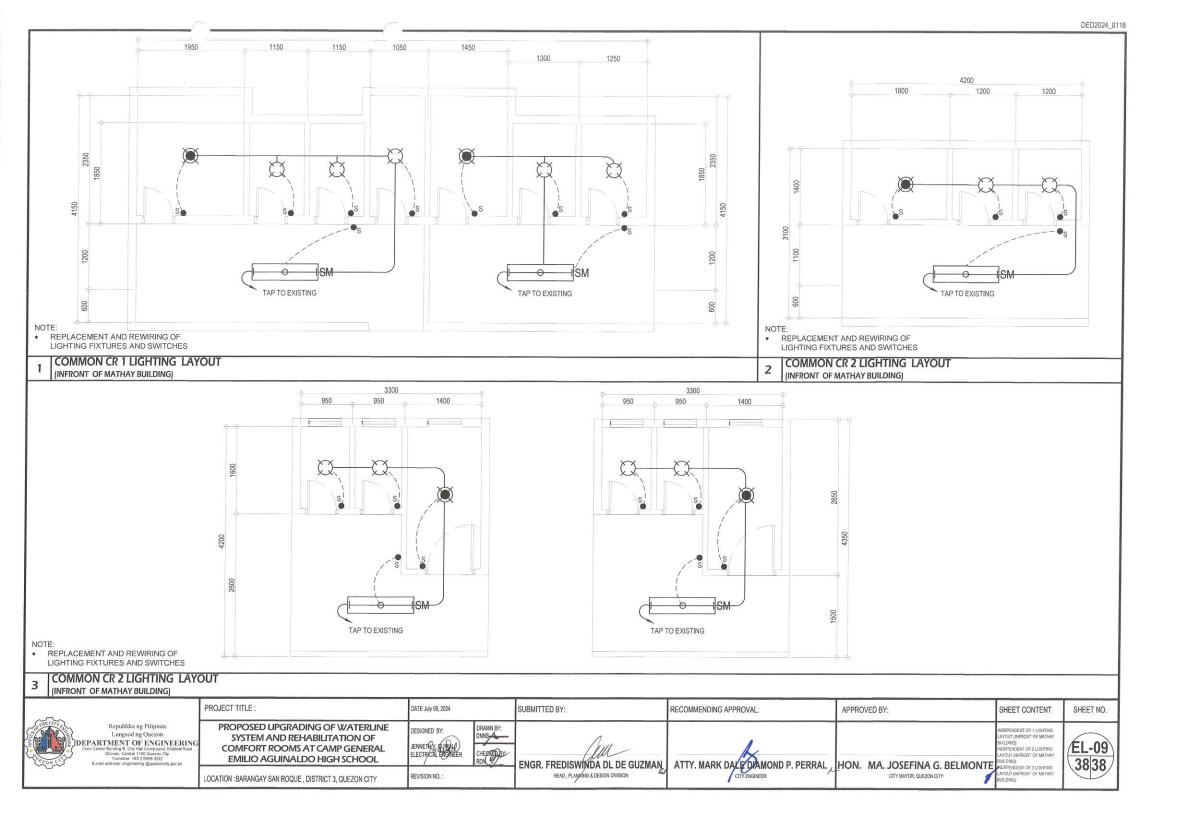
LOOR FEMALE COMFORT ROOM IGHTING LAYOUT SENIOR HIGH BUILDING) YP. SECOND FLOOR TO FOUR LOOR MALE COMFORT ROOM IGHTING LAYOUT SENIOR HIGH BUILDING) SROUND FLOOR FEMALE CON ROOM LIGHTING LAYOUT(DEP

SHEET CONTENT

EL-06







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 : PROPOSEI	D UPGRADING OF WATERLINE SYSTEM AND	REHABILITATION OF COMFORT ROOMS	AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

PROJECT NO. : 24 - 00134

DURATION : One Hundred Eighty (180) Calendar Days

BREAKDOWN OF COST

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT	TO	TAL MARK-UP	VAT	TOTAL INDIRECT COST	TOTAL COST
II EWI NO.	DESCRIPTION	COST	%	VALUE	VAI	TOTAL INDIRECT COST	TOTAL COST
PART I	OTHER GENERAL REQUIREMENTS						
PART II	SB BUILDING INCLUDING SITE DEVELOPMENT						
PART III	AGUINALDO BUILDING						
PART IV	SHS BUILDING						
PART V	DEPED BUILDING						
PART VI	MATHAY BUILDING						
PART VII	INDEPENDENT CR 1						
PART VIII	INDEPENDENT CR 2						
PART IX	INDEPENDENT CR 3						
PART X	FEEDING CENTER						
	TOTAL						

TOTAL COST P	

LUMP SUM B	BID IN WORDS : $_$	 	
Contractor :			
Page 3 of 3			
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Bid Form

BILL OF QUANTITIES (Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED UPGRADING OF WATERLINE SYSTEM AND REHABILITATION OF COMFORT ROOMS AT CAMP GENERAL EMILIO AGUINALDO HIGH SCHOOL

LOCATION : BARANGAY SAN ROQUE, DISTRICT 3, QUEZON CITY

PROJECT NO. : 24 - 00134

DURATION: One Hundred Eighty (180) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED	MARK	-UP IN %	T01	TAL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
ITEM CODE	DESCRIPTION	QUANTITI	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	T VAI	COST	TOTAL COST	UNIT COST
PART I	OTHER GENERAL REQUIREMENTS											
B.5	Project Billboard/Signboard	1	each									
B.7(1)	Occupational Safety and Health Program	6	month									
B.9	Mobilization	1	unit									
B.9	Demobilization	1	unit									
	TOTAL OF PART I											
PART II	SB BUILDING INCLUDING SITE DEVELOPMENT											
PART A	CIVIL, PLUMBING/SANITARY AND ELECTRICAL WORKS											
PART II.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	114	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	198	cu.m.									
	TOTAL OF PART II.A											
PART II.C	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	63	sq.m.									
1003(2)	Wall, Comfort Room Partition (Urinal)	5	set									
1008(1)c	Aluminum Glass Windows, Awning Type	5	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	32	set									
1010(2)a	Doors, Flush	34	sq.m.									
1016(1)b	Waterproofing, Liquid	63	sq.m.									
1018(1)	Glazed Tiles and Trims	304	sq.m.									
1018(2)	Unglazed Tiles	103	sq.m.									
. , ,	Floor Topping, Plain	103	sq.m.									
\ /	Cement Plaster Finish	45	sq.m.									
` '	Painting Works, Masonry/Concrete	410	sq.m.									
` '	Painting Works, Wood (Ceiling Board)	63	sq.m.									
1032(1)c	Painting Works, Steel (Slab Soffit)	103	sq.m.									
	TOTAL OF PART II.C											
PART II.D	PLUMBING / SANITARY WORKS											

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
ITEM CODE	DESCRIPTION	QUANTITY	OMII	DIRECT COST	OCM	PROFIT	%	VALUE	VAI	COST	TOTAL COST	UNII COS
	SEWER LINE WORKS											
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	61	l.m.									
	WATER LINE WORKS											
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	65	l.m.									1
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	15	l.m.									1
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	176	l.m.									1
1002 (2) e3	50mm Ø PPR Pipe and Fittings with Hanger/Support	65	l.m.									1
1002 (2) f3	65mm Ø PPR Pipe and Fittings with Hanger/Support	42	l.m.									1
	PLUMBING / SANITARY FIXTURES											1
1002 (5) a	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	21	set									
1002 (5) b	Bidet with Complete Fittings and Accessories (Water Efficient)	21	set									
1002 (9) b	Urinal,Flush Valve Lever Type, with Complete Accessories, Pipes and Fittings	7	set									
1002 (13)	Slop Sink with Faucet and Complete Accessories, Pipes and Fittings	1	set									
1002 (15) a	Lavatory Counter Top with Faucet and Complete Accessories, Pipes and Fittings	12	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	23	set									
1002 (20)a	100mmØ Cleanout	9	set									1
	VALVES AND APPURTANCES											1
1002 (3)d	40mmØ Gate Valve	9	set									1
1002 (3)f	65mmØ Gate Valve	1	set									1
1002 (4)a	25mmØ Check Valve	4	set									1
1002 (4)b	32mmØ Check Valve	1	set									1
٠,	40mmØ Check Valve	6	set									
\ /	65mmØ Check Valve	1	set									
(-)-	40mmØ End Cap	3	piece									
1002 (6)	65mmØ Water Meter	1	piece									
	TOTAL OF PART II.D											1
PART II.E	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100	100mm x 100mm PVC Junction Box with cover and accessories	24	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	8	set									
1100	20mmØ PVC Pipe	43	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire	260	l.m.									
1101	2.0mm² THW Wire	130	l.m.									
1101	Switch with Plate and Cover, One-Gang	2	piece									
1101	Switch with Plate and Cover, Two-Gang	4	piece			Page 2 of 17						

				ESTIMATED	MARK-	UP IN %	TO	TAL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
1101	Switch with Plate and Cover, Three-Gang	2	piece									
	LIGHTING FIXTURES AND LAMPS											
1103	1200mm x 300mm Recessed Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	8	set									
1103	1200mm x 300mm Surface Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	16	set									
	TOTAL OF PART II.E											
	TOTAL OF PART II											
PART III	AGUINALDO BUILDING											
PART A	CIVIL, PLUMBING/SANITARY AND ELECTRICAL WORKS											
PART III.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	13	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	52	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	13	sq.m.									
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	6	sq.m.									
1018(1)	Glazed Tiles and Trims	59	sq.m.									
1018(2)	Unglazed Tiles	13	sq.m.									
1021(3)a	Floor Topping, Plain	13	sq.m.									
1027(1)	Cement Plaster Finish	15	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	52	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	13	sq.m.									
1046(2)a1	CHB Non-Load Bearing (including Reinforcing Steel), 100mm	8	sq.m.									
	TOTAL OF PART III.B											
PART III.C	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	24	l.m.									
1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	6	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	15	l.m.									
	WATER LINE WORKS											
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	17	l.m.									
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	2	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	2	l.m.									
	PLUMBING / SANITARY FIXTURES											

				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
1002 (5) a	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	4	set									
1002 (5) b	Bidet with Complete Fittings and Accessories (Water Efficient)	4	set									
1002 (10)	Hose Bibb Lever Type, Stainless, with Complete Accessories, Pipes and Fittings	10	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	11	set									
1002 (20)a	100mmØ Cleanout	3	set									
	VALVES AND APPURTANCES											
1002 (3)d	40mmØ Gate Valve	1	set									
1002 (4)b	32mmØ Check Valve	1	set									
1002 (5)a	40mmØ End Cap	1	piece									
	TOTAL OF PART III.C											
PART III.D	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100	100mm x 100mm PVC Junction Box with cover and accessories	2	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	1	set									
1100	20mmØ PVC Pipe	7	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire	40	l.m.									
1101	2.0mm² THW Wire	20	l.m.									
1101	Switch with Plate and Cover, Two-Gang	1	piece									
	LIGHTING FIXTURES AND LAMPS											
1103	1200mm x 300mm Recessed Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	2	set									
	TOTAL OF PART III.D											
	TOTAL OF PART III											
PART IV	SHS BUILDING											
PART A	CIVIL, PLUMBING/SANITARY AND ELECTRICAL WORKS											
PART IV.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	86	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	160	cu.m.									
	TOTAL OF PART IV.A											
PART IV.B	PLAIN AND REINFORCED CONCRETE											
803(1)c	Structure Excavation, Solid Rock	3	cu.m.									
804(4)	Gravel Fill	1	cu.m.									
900(2)c	Structural Concrete, 3000 psi, 28 days	4	cu.m.									
902(1)b	Reinforcing Steel (Deformed), Grade 60	138	kg.									

				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
903(2)	Formworks and Falseworks	6	sq.m.									
1047(1)	Structural Steel (Pump House Enclosure)	598	kg.									
,	TOTAL OF PART VI.B											
PART IV.C	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	86	sq.m.									
1003(2)	Wall, Comfort Room Partition (Urinal)	8	set									
1008(1)c	Aluminum Glass Windows, Awning Type	11	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	25	set									
1010(2)a	Doors, Flush	34	sq.m.									
1013(2)a2	Fabricated Metal Roofing Accessory, Flashings	6	l.m.									
1014(2)b2	Prepainted Metal Sheets, Long Span, Rib Type	6	sq.m.									
1016(1)b	Waterproofing, Liquid	61	sq.m.									
1018(1)	Glazed Tiles and Trims	312	sq.m.									
1018(2)	Unglazed Tiles	86	sq.m.									
1021(3)a	Floor Topping, Plain	86	sq.m.									
1027(1)	Cement Plaster Finish	40	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	161	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	86	sq.m.									
1032(1)c	Painting Works, Steel (Pump House Enclosure)	28	sq.m.									
	TOTAL OF PART IV.B											
PART IV.D	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	100	l.m.									
1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	29	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	39	l.m.									
	WATER LINE WORKS											
1002 (2) a3	20mm Ø PPR Pipe and Fittings with Hanger/Support	1	l.m.									
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	138	l.m.									
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	30	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	37	l.m.									
	PLUMBING / SANITARY FIXTURES											
1002 (5) a	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	17	set									
1002 (5) b	Bidet with Complete Fittings and Accessories (Water Efficient)	17	set									
1002 (9) b	Urinal,Flush Valve Lever Type, with Complete Accessories, Pipes and Fittings	12	set									
1002 (13)	Slop Sink with Faucet and Complete Accessories, Pipes and Fittings	2	set									
1002 (14)	Lavatory Wall Hung with Pedestal and Faucet, Complete with Accessories, Pipes and Fittings	2	set									
1002 (15) a	Lavatory Counter Top with Faucet and Complete Accessories, Pipes and Fittings	24	set									
•	1	L		1		Page 5 of 17			I	I.		

				ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	<u>%</u>	VALUE	VAT	COST	TOTAL COST	UNIT COST
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	25	set				,,					
1002 (19)b	PWD Grab Bar, 50mm Ø Stainless	4	l.m.									
1002 (20)a	100mmØ Cleanout	8	set									
	VALVES AND APPURTANCES											
1002 (3)d	40mmØ Gate Valve	8	set									
1002 (4)a	25mmØ Check Valve	7	set									
1002 (4)b	32mmØ Check Valve	4	set									
1002 (5)a	40mmØ End Cap	8	piece									
	TOTAL OF PART IV.D											
PART IV.E	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100	100mm x 100mm PVC Junction Box with cover and accessories	18	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	10	set									
1100	20mmØ PVC Pipe	60	piece									
1100	20mmØ IMC Pipe and coupling	10	set									
1100	20mmØ Weatherproof Entrance Cap	1	set									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire	360	l.m.									
1101	8.0mm² THW Wire	60	l.m.									
1101	2.0mm² THW Wire	180	l.m.									
1101	5.5mm² TW Wire	30	l.m.									
1101	Switch with Plate and Cover, One-Gang	2	piece									
1101	Switch with Plate and Cover, Two-Gang	8	piece									
	PANELBOARD WITH MAIN & BRANCH											
1102	Panelboard with Main & Branch Breakers (Booster Pump)	1	assy									
	LIGHTING FIXTURES AND LAMPS											
1103	1200mm x 300mm Recessed Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	16	set									
1103	18 Watts LED Bulb with Receptacle with complete accessories	2	set									
	TOTAL OF PART IV.D											
PART IV.F	MECHANICAL WORKS											
	BP 1 - Booster Pump	2	unit									
1201 (1)b	WST 1 - Water Storage Tank	1	unit									
1201 (1)c	PT 1 - Pressure Tank	1	unit									
	TOTAL OF PART IV.F											
	TOTAL OF PART IV											
PART V	DEPED BUILDING											

ITEM CODE	DECODIDATION	OLIANITITY	LINUT	ESTIMATED	MARK-	UP IN %	TO	ΓAL MARK-UP	WAT	TOTAL INDIRECT	TOTAL COOT	LINUT COCT
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
PART A	CIVIL, PLUMBING/SANITARY AND ELECTRICAL WORKS											
PART V.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	46	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	102	cu.m.									
	TOTAL OF PART V.A											
PART V.B	PLAIN AND REINFORCED CONCRETE											
803(1)c	Structure Excavation, Solid Rock	3	cu.m.									
804(4)	Gravel Fill	1	cu.m.									
900(2)c	Structural Concrete, 3000 psi, 28 days	4	cu.m.									
902(1)b	Reinforcing Steel (Deformed), Grade 60	138	kg.									
903(2)	Formworks and Falseworks	6	sq.m.									
1047(1)	Structural Steel (Pump House Enclosure)	598	kg.									
	TOTAL OF PART IV.B											
PART V.C	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	45	sq.m.									
1003(2)	Wall, Comfort Room Partition (Urinal)	4	set									
1008(1)c	Aluminum Glass Windows, Awning Type	6	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	14	set									
1010(2)a	Doors, Flush	16	sq.m.									
1013(2)a2	Fabricated Metal Roofing Accessory, Flashings	6	l.m.									
1014(2)b2	Prepainted Metal Sheets, Long Span, Rib Type	6	sq.m.									
1016(1)b	Waterproofing, Liquid	34	sq.m.									
1018(1)	Glazed Tiles and Trims	171	sq.m.									
1018(2)	Unglazed Tiles	45	sq.m.									
1021(3)a	Floor Topping, Plain	45	sq.m.									
1027(1)	Cement Plaster Finish	15	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	89	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	45	sq.m.									
1032(1)c	Painting Works, Steel (Pump House Enclosure)	28	sq.m.									
	TOTAL OF PART V.B											
PART V.D	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	42	l.m.									
1001 (1) a6	75mm Ø PVC Pipe and Fittings with Hanger/Support	11	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	18	l.m.									
	WATER LINE WORKS											
1002 (2) a3	20mm Ø PPR Pipe and Fittings with Hanger/Support	10	l.m.									
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	44	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	11	l.m.									

		_		ESTIMATED	MARK.	UP IN %	TO	TAL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
	PLUMBING / SANITARY FIXTURES											
1002 (5) a	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	10	set									
	Bidet with Complete Fittings and Accessories (Water Efficient)	10	set									
1002 (9) b	Urinal,Flush Valve Lever Type, with Complete Accessories, Pipes and Fittings	6	set									
4000 (45)	Lavatory Counter Top with Faucet and Complete Accessories, Pipes and Fittings	13	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	15	set									
1002 (19)b	PWD Grab Bar, 50mm Ø Stainless	2	l.m.									
1002 (20)a	100mmØ Cleanout	4	set									
. ,	VALVES AND APPURTANCES											
1002 (3)d	40mmØ Gate Valve	4	set									
. ,	25mmØ Check Valve	4	set									
1002 (5)a	40mmØ End Cap	4	piece									
	TOTAL OF PART V.C											
PART V.E	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100	100mm x 100mm PVC Junction Box with cover and accessories	7	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	5	set									
1100	20mmØ PVC Pipe	27	piece									
1100	20mmØ IMC Pipe and coupling	10	set									
1100	20mmØ Weatherproof Entrance Cap	1	set									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire	160	l.m.									
1101	8.0mm² THW Wire	60	l.m.									
1101	2.0mm² THW Wire	80	l.m.									
1101	5.5mm² TW Wire	30	l.m.									
1101	Switch with Plate and Cover, One-Gang	2	piece									
1101	Switch with Plate and Cover, Two-Gang	3	piece									
	PANELBOARD WITH MAIN & BRANCH BREAKERS											
1102	Panelboard with Main & Branch Breakers (Booster Pump)	1	assy									
	LIGHTING FIXTURES AND LAMPS											
1103	1200mm x 300mm Recessed Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	7	set									
	TOTAL OF PART V.D											
PART V.F	MECHANICAL WORKS											
	BP 1 - Booster Pump	2	unit									
. ,	WST 1 - Water Storage Tank	1	unit			Page 8 of 17						

				ESTIMATED	MARK-	-UP IN %	TO	TAL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
1201 (1)c	PT 1 - Pressure Tank	1	unit		2 2		, ,,	_				
- (-/-	TOTAL OF PART V.F	·										
-	TOTAL OF PART V											
	TOTAL OF TAKE V											
PART VI	MATHAY BUILDING											
PART A	CIVIL, PLUMBING/SANITARY AND ELECTRICAL WORKS											
PART VI.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	93	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	196	cu.m.									
	TOTAL OF PART VI.A											
PART VI.B	PLAIN AND REINFORCED CONCRETE WORKS											
803(1)c	Structure Excavation, Solid Rock	3	cu.m.									
	Gravel Fill	1	cu.m.									
900(2)c	Structural Concrete, 3000 psi, 28 days	4	cu.m.									
	Reinforcing Steel (Deformed), Grade 60	138	kg.									
	Formworks and Falseworks	6	sq.m.									
1047(1)	Structural Steel (Pump House Enclosure)	598	kg.									
	TOTAL OF PART IV.B											
PART VI.C	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	93	sq.m.									
	Wall, Comfort Room Partition (Urinal)	6	set									
	Aluminum Glass Windows, Awning Type	4	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	24	set									
	Doors, Flush	30	sq.m.									
1013(2)a2	Fabricated Metal Roofing Accessory, Flashings	6	l.m.									
	Prepainted Metal Sheets, Long Span, Rib Type	6	sq.m.									
1016(1)b	Waterproofing, Liquid	62	sq.m.									
1018(1)	Glazed Tiles and Trims	321	sq.m.									
1018(2)	Unglazed Tiles	93	sq.m.									
	Floor Topping, Plain	93	sq.m.									
	Cement Plaster Finish	24	sq.m.									
	Painting Works, Masonry/Concrete	161	sq.m.									
	Painting Works, Wood (Ceiling Board)	93	sq.m.									
	Painting Works, Steel (Pump House Enclosure)	28	sq.m.									
, ,	TOTAL OF PART VI.C		-									
PART VI.D	PLUMBING / SANITARY WORKS											
77	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	28	l.m.									
· '	75mm Ø PVC Pipe and Fittings with Hanger/Support	16	l.m.									

ITEM CODE	DECODIDATION	OHANTITY	LINUT	ESTIMATED	MARK-	-UP IN %	TOT	AL MARK-UP	V/AT	TOTAL INDIRECT	TOTAL COOT	LINIT COCT
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	43	l.m.									
	WATER LINE WORKS											
1002 (2) a3	20mm Ø PPR Pipe and Fittings with Hanger/Support	47	l.m.									
1002 (2) b3	25mm Ø PPR Pipe and Fittings with Hanger/Support	52	l.m.									
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	28	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	6	l.m.									
	PLUMBING / SANITARY FIXTURES											
1002 (5) a	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	18	set									
1002 (5) b	Bidet with Complete Fittings and Accessories (Water Efficient)	18	set									
1002 (9) b	Urinal,Flush Valve Lever Type, with Complete Accessories, Pipes and Fittings	9	set									
1002 (13)	Slop Sink with Faucet and Complete Accessories, Pipes and Fittings	3	set									
1002 (15) a	Lavatory Counter Top with Faucet and Complete Accessories, Pipes and Fittings	18	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	24	set									
1002 (20)a	100mmØ Cleanout	6	set									
	VALVES AND APPURTANCES											
1002 (3)d	40mmØ Gate Valve	3	set									
1002 (4)b	32mmØ Check Valve	3	set									
1002 (5)a	40mmØ End Cap	3	piece									
	TOTAL OF PART VI.D											
PART VI.E	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100	100mm x 100mm PVC Junction Box with cover and accessories	18	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	6	set									
1100	20mmØ PVC Pipe	25	piece									
1100	20mmØ IMC Pipe and coupling	10	set									
1100	20mmØ Weatherproof Entrance Cap	1	set									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire	150	l.m.									
1101	8.0mm² THW Wire	60	l.m.									
1101	2.0mm² THW Wire	75	l.m.									
1101	5.5mm² TW Wire	30	l.m.									
1101	Switch with Plate and Cover, Two-Gang	6	piece									
	PANELBOARD WITH MAIN AND BRANCH BREAKERS											
1102	Panelboard with Main & Branch Breakers (Booster Pump)	1	assy			Page 10 of 17						

				ESTIMATED	MARK	-UP IN %	TO1	TAL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
	LIGHTING FIXTURES AND LAMPS											
1103	1200mm x 300mm Recessed Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	18	set									
	TOTAL OF PART VI.E											
PART VI.F	MECHANICAL WORKS											
1201 (1)a	BP 1 - Booster Pump	2	unit									
1201 (1)b	WST 1 - Water Storage Tank	1	unit									
1201 (1)c	PT 1 - Pressure Tank	1	unit									
	TOTAL OF PART V.F											
	TOTAL OF PART VI											
PART VII	INDEPENDENT CR 1											
PART A	CIVIL, PLUMBING/SANITARY AND ELECTRICAL WORKS											
PART VII.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	41	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	72	cu.m.									
	TOTAL OF PART VII.A											
PART VII.B	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	41	sq.m.									
	Aluminum Glass Windows, Awning Type	3	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	7	set									
1010(2)a	Doors, Flush	13	sq.m.									
1018(1)	Glazed Tiles and Trims	82	sq.m.									
1018(2)	Unglazed Tiles	41	sq.m.									
	Floor Topping, Plain	41	sq.m.									
1027(1)	Cement Plaster Finish	78	sq.m.									
	Painting Works, Masonry/Concrete	160	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	41	sq.m.									
	TOTAL OF PART VII.B											
PART VII.C	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	11	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	24	l.m.									
	WATER LINE WORKS											
` '	20mm Ø PPR Pipe and Fittings with Hanger/Support	20	l.m.									
\ ,	25mm Ø PPR Pipe and Fittings with Hanger/Support	17	l.m.									
. ,	32mm Ø PPR Pipe and Fittings with Hanger/Support	2	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	4	l.m.									
	PLUMBING / SANITARY FIXTURES	<u> </u>				Page 11 of 17						

				ESTIMATED	MARK-	UP IN %	TO1	AL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	ОСМ	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
1002 (5) a	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	7	set									
1002 (5) b	Bidet with Complete Fittings and Accessories (Water Efficient)	7	set									
1002 (9) b	Urinal,Flush Valve Lever Type, with Complete Accessories, Pipes and Fittings	1	set									
1002 (10)	Hose Bibb Lever Type, Stainless, with Complete Accessories, Pipes and Fittings	12	set									
1002 (14)	Lavatory Wall Hung with Pedestal and Faucet, Complete with Accessories, Pipes and Fittings	2	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	13	set									
. ,	PWD Grab Bar, 50mm Ø Stainless	4	l.m.									
1002 (20)a	100mmØ Cleanout	3	set									
	VALVES AND APPURTANCES											
(-)-	40mmØ Gate Valve	1	set									
()-	25mmØ Check Valve	1	set									
1002 (5)a	40mmØ End Cap	1	piece									
	TOTAL OF PART VII.C											
PART VII.D	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100	100mm x 100mm PVC Junction Box with cover and accessories	7	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	9	set									
1100	20mmØ PVC Pipe	13	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire	80	l.m.									
1101	2.0mm² THW Wire	40	l.m.									
1101	Switch with Plate and Cover, One-Gang	9	piece									
	LIGHTING FIXTURES AND LAMPS											
1103	10 Watts LED Bulb with Receptacle with complete accessories	5	set									
1103	18 Watts LED Bulb with Receptacle with complete accessories	2	set									
1103	1200mm x 300mm Surface Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	2	set									
	TOTAL OF PART VII.D											
	TOTAL OF PART VII											
PART VIII	INDEPENDENT CR 2											
PART A	, PLUMBING/SANITARY AND ELECTRICAL WO											
PART VIII.A	REMOVAL OF STRUCTURES AND											
	Clearing and Grubbing	14	sq.m.									
(./	1 2	· · · · · · · · · · · · · · · · · · ·	- 4,	I	L	Page 12 of 17			1	1		

				ESTIMATED	MARK-	UP IN %	TO	TAL MARK-UP		TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
801(2)	Removal of Actual Structures/Obstructions	30	cu.m.				.,,					
551(=)	TOTAL OF PART VIII.A											
PART VIII.B	FINISHING AND OTHER CIVIL WORKS											
	Ceiling, 6mm, Metal Frame, Fiber Cement Board	14	sq.m.									
` '	Aluminum Glass Windows, Awning Type	2	sq.m.									
()	Frames (Jambs, Sill, Head, Transoms and Mullions)	3	set									
. ,	Doors, Flush	6	sq.m.									
1018(1)	Glazed Tiles and Trims	31	sq.m.									
1018(2)	Unglazed Tiles	14	sq.m.									
1021(3)a	Floor Topping, Plain	14	sq.m.									
1027(1)	Cement Plaster Finish	30	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	46	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	14	sq.m.									
	TOTAL OF PART VIII.C											
PART VIII.D	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a5	50mm Ø PVC Pipe and Fittings with Hanger/Support	9	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	5	l.m.									
	WATER LINE WORKS											
1002 (2) a3	20mm Ø PPR Pipe and Fittings with Hanger/Support	16	l.m.									
. ,	32mm Ø PPR Pipe and Fittings with Hanger/Support	6	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	1	l.m.									
	PLUMBING / SANITARY FIXTURES											
1002 (5) a	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	3	set									
	Bidet with Complete Fittings and Accessories (Water Efficient)	3	set									
1002 (10)	Hose Bibb Lever Type, Stainless, with Complete Accessories, Pipes and Fittings	7	set									
	Lavatory Wall Hung with Pedestal and Faucet, Complete with Accessories, Pipes and Fittings	1	set									
	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	6	set									
1002 (19)b	PWD Grab Bar, 50mm Ø Stainless	2	l.m.									
1002 (20)a	100mmØ Cleanout	1	set									
	VALVES AND APPURTANCES											
(-)-	40mmØ Gate Valve	1	set									
()	32mmØ Check Valve	1	set									
1002 (5)a	40mmØ End Cap	1	piece									
	TOTAL OF PART VIII.D											
PART VIII.E	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS					Page 13 of 17						

ITEM COSS	DE005:37:01	01141:-:-		ESTIMATED	MARK-	UP IN %	T01	AL MARK-UP		TOTAL INDIRECT	TOTAL 222	LINUT AGGE
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
1100	100mm x 100mm PVC Junction Box with cover and accessories	5	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	4	set									
1100	20mmØ PVC Pipe	7	piece									
	WIRES AND WIRING DEVICES		·									
1101	3.5mm² THHN Wire	40	l.m.									
1101	2.0mm² THW Wire	20	l.m.									
1101	Switch with Plate and Cover, One-Gang	4	piece									
	LIGHTING FIXTURES AND LAMPS											
1103	10 Watts LED Bulb with Receptacle with complete accessories	2	set									
1103	18 Watts LED Bulb with Receptacle with complete accessories	1	set									
	1200mm x 300mm Surface Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	1	set									
	TOTAL OF PART VIII.E											
	TOTAL OF PART VIII											
PART IX	INDEPENDENT CR 3											
PART A	CIVIL, PLUMBING/SANITARY AND ELECTRICAL WORKS											
PART IX.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	38	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	50	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	30	sq.m.									
1008(1)c	Aluminum Glass Windows, Awning Type	3	sq.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	6	set									
1010(2)a	Doors, Flush	12	sq.m.									
\ /	Glazed Tiles and Trims	49	sq.m.									
	Unglazed Tiles	46	sq.m.									
	Floor Topping, Plain	46	sq.m.									
. , ,	Cement Plaster Finish	49	sq.m.									
	Painting Works, Masonry/Concrete	84	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	30	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	7	l.m.									
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	5	l.m.			Rage 14 of 17						

ITEM CODE	DESCRIPTION	OLIANITITY	LINUT	ESTIMATED	MARK	-UP IN %	TO	TAL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	LINIT COST
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
	WATER LINE WORKS											
1002 (2) a3	20mm Ø PPR Pipe and Fittings with Hanger/Support	28	l.m.									
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	2	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	1	l.m.									
	PLUMBING / SANITARY FIXTURES											
1002 (5) a	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	6	set									
	Bidet with Complete Fittings and Accessories (Water Efficient)	6	set									
1002 (10)	Hose Bibb Lever Type, Stainless, with Complete Accessories, Pipes and Fittings	10	set									
1002 (14)	Lavatory Wall Hung with Pedestal and Faucet, Complete with Accessories, Pipes and Fittings	2	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	8	set									
1002 (19)b	PWD Grab Bar, 50mm Ø Stainless	4	l.m.									
1002 (20)a	100mmØ Cleanout	2	set									
	VALVES AND APPURTANCES											
1002 (3)d	40mmØ Gate Valve	1	set									
1002 (4)b	32mmØ Check Valve	1	set									
1002 (5)a	40mmØ End Cap	1	piece									
	TOTAL OF PART IX.C											
PART IX.D	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100	100mm x 100mm PVC Junction Box with cover and accessories	8	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	8	set									
1100	20mmØ PVC Pipe	13	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire	80	l.m.									
1101	2.0mm² THW Wire	40	l.m.									
1101	Switch with Plate and Cover, One-Gang	8	piece									
	LIGHTING FIXTURES AND LAMPS											
1103	10 Watts LED Bulb with Receptacle with complete accessories	4	set									
	18 Watts LED Bulb with Receptacle with complete accessories	2	set									
1103	1200mm x 300mm Surface Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	2	set									
	TOTAL OF PART IX.D											
	TOTAL OF PART IX											
PART X	FEEDING CENTER											

ITEM CODE	DECORIDATION	OHANITITY	LINUT	ESTIMATED	MARK	-UP IN %	TO	TAL 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 A	CIVIL, PLUMBING/SANITARY AND ELECTRICAL WORKS											
PART X.A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
800(1)	Clearing and Grubbing	81	sq.m.									
801(2)	Removal of Actual Structures/Obstructions	58	cu.m.									
	TOTAL OF PART X.A											
PART X.B	FINISHING AND OTHER CIVIL WORKS											
1003(1)a1	Ceiling, 6mm, Metal Frame, Fiber Cement Board	81	sq.m.									
1003(11)a1	Fascia Board, Fiber Cement Board	27	l.m.									
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	1	set									
1010(2)a	Doors, Flush	2	sq.m.									
1013(2)a1	Fabricated Metal Roofing Accessory, Ridge/Hip Rolls	10	l.m.									
1013(2)a2	Fabricated Metal Roofing Accessory, Flashings	10	l.m.									
1014(2)b2	Prepainted Metal Sheets, Long Span, Rib Type	81	sq.m.									
1018(1)	Glazed Tiles and Trims	13	sq.m.									
1018(2)	Unglazed Tiles	49	sq.m.									
1021(3)a	Floor Topping, Plain	49	sq.m.									
1027(1)	Cement Plaster Finish	2	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	188	sq.m.									
1032(1)b	Painting Works, Wood (Ceiling Board)	81	sq.m.									
	TOTAL OF PART X.B											
PART X.C	PLUMBING / SANITARY WORKS											
	SEWER LINE WORKS											
1001 (1) a7	100mm Ø PVC Pipe and Fittings with Hanger/Support	4	l.m.									
	WATER LINE WORKS											
1002 (2) a3	20mm Ø PPR Pipe and Fittings with Hanger/Support	10	l.m.									
1002 (2) c3	32mm Ø PPR Pipe and Fittings with Hanger/Support	1	l.m.									
1002 (2) d3	40mm Ø PPR Pipe and Fittings with Hanger/Support	2	l.m.									
	PLUMBING / SANITARY FIXTURES											
	Water Closet, Flush Valve-Type with Complete Accessories, Pipes, and Fittings	1	set									
1002 (5) b	Bidet with Complete Fittings and Accessories (Water Efficient)	1	set									
1002 (14)	Lavatory Wall Hung with Pedestal and Faucet, Complete with Accessories, Pipes and Fittings	1	set									
1002 (15) b	Kitchen Sink, Single Tub with Complete Accessories, Pipes and Fittings	1	set									
1002 (16) a3	Floor Drain, 100mmØ, Stainless with Complete Accessories and Fittings	1	set									
1002 (20)a	100mmØ Cleanout	1	set									
1	VALVES AND APPURTANCES				1	Page 16 of 17						

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED	MARK-UP IN %		TOTAL MARK-UP			TOTAL INDIRECT	TOTAL 0007	
				DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
1002 (3)d	40mmØ Gate Valve	1	set									
1002 (4)b	32mmØ Check Valve	1	set									
1002 (5)a	40mmØ End Cap	1	piece									
	TOTAL OF PART X.C											
PART X.D	ELECTRICAL WORKS											
	CONDUITS, BOXES AND FITTINGS											
1100	100mm x 100mm PVC Junction Box with cover and accessories	7	set									
1100	50mm x 100mm PVC Utility Box with cover and accessories	2	set									
1100	20mmØ PVC Pipe	13	piece									
	WIRES AND WIRING DEVICES											
1101	3.5mm² THHN Wire	80	l.m.									
1101	2.0mm² THW Wire	40	l.m.									
1101	Switch with Plate and Cover, One-Gang	1	piece									
1101	Switch with Plate and Cover, Three-Gang	1	piece									
	LIGHTING FIXTURES AND LAMPS											
1103	10 Watts LED Bulb with Receptacle with complete accessories	1	set									
1103	1200mm x 300mm Recessed Mounted Box Type Lighting Fixture, 1-18W T8 Daylight LED Tube	6	set									
	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

		Cluss A Documents
<u>Leg</u>	al Do	<u>ocuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	(b)	and Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
	(c)	and Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
	(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	al 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);
	(g)	and 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
	(b)	Consultancy); and Philipping Contractors Approximation Board (BCAR) Licenses
	(h)	Philippine Contractors Accreditation Board (PCAB) License;
	(i)	or Special PCAB License in case of Joint Ventures; and registration for the type and cost of the contract to be bid; and Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
	(j)	or Original copy of Notarized Bid Securing Declaration; and Project Requirements, which shall include the following: a. Organizational chart for the contract to be bid;
		b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy);
		c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for

the duration of the project, as the case may be (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy); and □ (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 □ • Manpower Schedule Construction Schedule and S-Curve PERT-CMP \square • **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	
Date :	
Project Identification No. :	

To: [name and address of Procuring Entity]

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

- 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.

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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 projed 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]

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR:			
MAINE OF CONTRACTOR.			

PROJECT TITLE					CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR,	TOTAL	DATE OF	TOTAL CONTRACT	PERCE	NTAGE	
(Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	PARTHNER IN A JV) and PERCENTAGE OF PARTICIPATION	F VALUE AT ESTIMATED		VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	VALUE OF OUTSTANDING WORKS (IN PHP)
									TOTAL AMOUNT		

PHOTOCOPY	ADDITIONAL FORMS	, IF NECESSARY
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Lage	01

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** NAME AND ADDRESS DATE OF SCHEDULED CONTRACT PRICE MAJOR SCOPE OF WORKS & DATE PROJECT TITLE & EXACT LOCATION CONTRACTOR / SUB-(PHP) AS AWARDED COMPLETION STARTED OF PROJECT OWNER CONTRACTOR/PARTNER IN A TOTAL AMOUNT OF CONTRACT (Php) Page___of___ PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

SINGLE LARGEST COMPLETED CO	NGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID							
NAME OF CONTRACTOR:					-			
PROJECT TITLE:					5.1			
PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTHNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETIONTIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

17			
Pag	16	0.1	

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT NAME OF CONTRACTOR: PROJECT TITLE: STATUS OF PRESENT LOCATION YEAR **AVAILABILITY** DESCRIPTION / CAPACITY **TYPE** SERIAL NO. **ACQUIRED** (SPECIFIC ADDRESS) (OWNED/LEASED)

D	C	
Page	01	

A. LIST OF KEY CONSTRUCTION PERSONNEL TO BE ASSIGNED TO THE PROJECT NAME OF CONTRACTOR: PROJECT TITLE: TYPE OF NO.OF YEARS **EDUCATIONAL** CONSTRUCTION WITH THE **PROFESSION** PRC NO. NAME POSITION AGE ATTAINMENT CONTRACTOR EXPERIENCE

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page___of___

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:					
	CURRENT ASSETS*			PHP	
	(LESS) CUR	RENT LIABILITIES*	(LESS)	PHP	
	NETWORT	Н		PHP	
	NETWORT	H x 15	x 15	PHP	
		(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**		PHP	
		JE OF ALL AWARDED BUT NOT YET ONTRACTS AS OF DATE**	(LESS)	PHP	
	NET FINA	NCIAL CONTRACTING CAPACITY		PHP .	
	NOTES: * CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.				
		** BASED ON LIST OF ON-GOING AND SUBMITTED	D AWRDE	D BUT I	NOT YEY STARTED CONTRACTS

	AFFIDAVIT OF UNDERTAKING					
	I,, of legal age, Filipino,[OFFICER OR REPRESENTATIVE]					
with having	office address at after g been duly sworn to in accordance with law, hereby voluntary depose and state:					
	That I am duly authorized representative of the <u>IName of Bidder</u> to execute this undertaking as evidenced by Secretary's Certificate and Board Resolution.					
	That[Name of Bidder]bidding for the (Name of Project)					
	That relative to the aforementioned Project, the <a>[Name of Bidder] hereby undertake that the equipment to be use and the key personnel to be assign shall exclusively be used and will only perform to the project until its completion.					
	That I am executing this affidavit to attest to the truth of the foregoing and in compliance with the submission of the technical requirements for the public bidding of the said project.					
	IN WITNESS HEREOF, I have hereunto signed my name below thisday ofat					
	AFFIANT FURTHER SAYETH NAUGHT.					
	Affiant					

affiant exhibiting to me his/her _____

____on ___

Doc. No. Page No. Book No. Series of 2020

Notary Public

