PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL IN BARANGAY PASONG TAMO

Project number: 24-000015

Sixth Edition July 2020

Preface

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

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

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

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

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

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

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

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

- **BIR** Bureau of Internal Revenue.
- **BSP** Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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



REPUBLIC OF THE PHILIPPINES QUEZON CITY GOVERNMENT



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

February 28, 2024

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
Buil	ding – S	mall B					
1	24- 00001	Proposed Installation of Streetlights at Geneva, Lisbon and Oslo in Capitol Park Homes Subdivision, Barangay Matandang Balara	Matandang Balara	1,107,830.20	30	Engineering Department	20% Communit Development Fund
2	24- 00002	Proposed Enclosure of Open Areas at 2nd Floor of Quezon City Public Library	Central	2,269,403.53	30	Engineering Department	Engineering
3	24- 00003	Proposed Rehabilitation of Tricycle Regulatory Division and Parks Development Administration Building at Novaliches District Center	Sta. Monica	2,407,973.75	60	Engineering Department	Engineering
4	24- 00004	Proposed Rehabilitation of Various Buildings at Camarilla Elementary School in Barangay San Roque	San Roque	3,185,094.77	90	Engineering Department	Special Education Fund (Local School Board)
5	24- 00005	Proposed Rehabilitation of Dorm B of Quezon City Drug Treatment and Rehabilitation Center at Barangay Payatas	Payatas	3,819,307.82	60	Engineering Department	20% Communit Development Fund
6	24- 00006	Proposed Upgrading of Electrical System at Sergio Osmeña Senior High School in Barangay Masambong	Masambong	3,904,398.78	30	Engineering Department	Special Education Fund (Local School Board)
7	24- 00007	Proposed Rehabilitation of Dorm A of Quezon City Drug Treatment and Rehabilitation Center at Barangay Payatas	Payatas	4,300,558.65	60	Engineering Department	20% Communit Development Fund
8	24- 00008	Proposed Rehabilitation of Dorm E of Quezon City Drug Treatment and Rehabilitation Center at Barangay Payatas	Payatas	5,246,936.79	90	Engineering Department	20% Communit Development Fund
9	24- 00009	Proposed Rehabilitation of Water Supply System and Stage at Apolonio Samson Elementary School	Apolonio Samson	5,401,773.48	90	Engineering Department	Special Education Fund (Local School Board)
10	24- 00010	Proposed Rehabilitation of Dorm D of Quezon City Drug Treatment and Rehabilitation Center at Barangay Payatas	Payatas	5,682,776.61	90	Engineering Department	20% Communit Development Fund

19	24- 00019	DPWH 5 Building, Rehabilitation of Classrooms at Belmonte Building, Electrical System at HB Building, and Waterline at San Agustin Elementary School in Barangay San Agustin	San Agustin	17,986,105.50	120	Engineering Department	Special Education Fund (Local School Board)
18	24- 00018	Proposed Construction of Site Development at Bagbag Integrated High School in Barangay Bagbag Proposed Enclosure of	Bagbag	17.591,532.31	150	Engineering Department	Special Education Fund (Local School Board)
17	24- 00017	Proposed Rehabilitation of Water Supply System and Comfort Rooms at San Gabriel Elementary School	Sta. Lucia	16,988,008.65	120	Engineering Department	Special Education Fund (Local School Board)
16	24- 00016	Proposed Rehabilitation of SB Building at Lagro High School	Greater Lagro	15,561,795.44	180	Engineering Department	Special Education Fund (Local School Board)
15	24- 00015	Proposed Rehabilitation of Water Supply System, Comfort Room and Upgrading of Electrical System at Pasong Tamo Elementary School in Barangay Pasong Tamo	Pasong Tamo	13,001,893.23	90	Engineering Department	Special Education Fund (Local School Board)
14	24- 00014	Proposed Rehabilitation of Covered Pathwalk at San Bartolome High School in Barangay San Bartolome	San Bartolome	8,380,198.25	60	Engineering Department	Special Education Fund (Local School Board)
13	24- 00013	Proposed Waterproofing and Rehabilitation of Affected Areas at Civic Building C and Civic Building E in Quezon City Hall	Central	8,051,366.70	120	Engineering Department	Engineering
12	24- 00012	Proposed Rehabilitation of Novaliches District Center	Sta. Monica	6,469,138.27	60	Engineering Department	Engineering
11	24- 00011	Proposed Rehabilitation of School Building at Ismael Mathay Sr. High School in Barangay Sangandaan	Sangandaan	6,189,724.98	120	Engineering Department	Special Education Fund (Local School Board)

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- The QUEZON CITY LOCAL GOVERNMENT, through *funding source of various years* intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract *for the above stated Projects*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- The QUEZON CITY LOCAL GOVERNMENT now invites bids for the above Procurement Project. Completion of the Works is required as stated above. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. – 5:00 p.m.

5. A complete set of Bidding Documents may be acquired by interested bidders on 05 March 2024 (Tuesday) from given address and website/s below and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.

STANDARD RATES:

Approved Budget for the Contract	Maximum Cost of Bidding Documents (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.

 The QC- BAC- INFRASTRUCTURE & CONSULTANCY will hold a Pre-Bid Conference¹ on March 13, 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 1D: 854 9489 0133 Password: 273320

- Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before April 03, 2024 – 9:00 AM. Late bids shall not be accepted.
- All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.
- Bid opening shall be on April 03, 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 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.

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

11. For further information, please refer to:

ATTY. DOMINIC B. GARCIA OIC, Procurement Department 2^{nt} 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: <u>www.quezoncity.gov.ph</u>

12. You may visit the following websites:

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

By: ARCH. LUCILLE H. CHUA, fuap, piep Chairperson, BAC-Infra and Consultancy

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL IN BARANGAY PASONG TAMO, with Project Identification Number 24-00015.

[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 2023 in the amount of Thirteen Million One Thousand Eight Hundred Ninety-Three Pesos and 23/100 Ctvs. (P 13,001,893.23).
- 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 **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**.

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	Dia Data	biitet			
5.2	For this purpose similar contracts of	hall rafar to contracta	which have the same		
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.				
7.1	Subcontracting is not allowed.				
10.3	No additional contractor license or permit is required				
	In addition, eligible bidders shall q	ualify or comply with	the following:		
	1. Bidders with valid Philippine Cor	ntractors Accreditatio	n Board (PCAB)		
	Туре				
	Building -Small B				
10.4	The minimum work experience	requirements for ke	y personnel are the		
	following: Qnty. Key Personnel Gener	al Experience Rel	avant Expansionaa		
	Qnty. Key Personnel Gener	a Experience Ker	evant Experience		
	1 Project-In-Charge	3 years	3 years		
	1 General Foreman	3 years	3 years		
	1 Trade Engineers/Leadman	•	3 years		
	for Civil Works	-)	-)		
	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 Engineer	3 years	3 years		
10.5	In addition, the bidder must exn notarized stating that the foregoing for the project until its completion. The minimum major equipment requ	personnel shall perf Please see attached l	form work exclusively bid forms.		
	Equipment	Capacity	Number of Units		
	Dumptruck	12 yd^3	$\frac{1}{2}$		
	Payloader	12 yu	2 1		
	Bulldozer		1		
	Backhoe	0.80 cu.m.	1		
	Backhoe w/ Breaker	0.80 cu.m.	1		
	Plate Compactor	0.00 vu .m.	1		
	One Bagger Mixer		1		
	Bar Cutter		1		
	Bar Bender		1		
	Welding Machine		1		

	Cutting Outfit 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 260,037.86 or equivalent to two percent (20) of ADC if his accurate is in each solution in the head has been been been been been been been bee
	(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 650,094.66 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. DEDT/CPM or other accentable tools of preject scheduling, shall be
	5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.
L	

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 90 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the
	Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: [list here the required site investigation reports.]
7.2	[Select one, delete the other.]
	[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:] Fifteen (15) years.
	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is <i>thirty (30) days</i> 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.

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LOCATION -

Republic of the Philippines Queson City DEPARTMENT OF ENGINEERING Chris Center Bulloing B. Quezon City Hall Compound, Ehiptical Road Diffinan, Certain 1100 Quezon City Trunkline: +53 2 8968 4242 E-mail address: engineering@quezoncity.gov.ph



PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, CONFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AND AT PASONG TAMO PROJECT TITLE . ELEMENTARY SCHOOL IN BARANGAY PASONG TAMO BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

TECHNICAL SPECIFICATIONS

GENERAL REQUIREMENTS ١.

- A. Comply with the current and existing lews, ordinances and applicable codes, rules and regulations, and standards. Any works performed contrary to the existing taws, rules and regulations, ordinances and standards without notice shall bear all cost arising therafrom.
- 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.
- 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 F. of these specifications shall be considered as defective
- G. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- H. Mobilization and Demobilization (if applicable)
 - Mobilization shall include all activities and related costs for transportation of personnel. equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.
 - 2. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract
 - Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a compatent, experienced, full time supervisor who is authorized to make decisions on behalf of the ١. Contractor.
 - Temporary Facilities and Utilities
 - All facilities shall be neer the job site, where necessary and shall conform to the best 1 standard for the required types.



- Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage.
- 5 Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed property
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
 - The medical room shall be provided with waterproofing. It could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
 - 3 The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site.
 - Additional safety precautions shall be provided in the event of a pendemic. Protocols set forth by the government shall be strictly followed.
 - Construction safety shall consist of construction canopy and safety net.
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- M Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

- A Ail grades, lines, levels and dimensions shall be verified as indicated on the plane 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, fonces, 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 selety procedures

C. All excavations shall be made to grade as indicated in the plane. 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.

Tranches 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



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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 culven shall be placed until the Engineer has approved the depth of excavation and the character of the foundation material.

D. All excevaled materials, so far as suitable, shall be utilized as backfill. The surplus materials shall be disposed of in such manner as not to obstruct the stream or otherwise impair the efficiency or appearance of the structure. No excavated materials shall be deposited at any time so as to endanger the partly finished structure.

All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted by wetting, tamping and rolling

III. CIVIL / STRUCTURAL WORKS

A. CONGRETE 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).
 - b Water used in mixing concrete shall be clean and free from other mjurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
 - Fine aggregates shall be beach or river send conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be course, sharp, clean free from salt, dust, loam, dirt and all foreign matters
 - d. Coarse aggregetes 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 %

b Concrete mature to be used for concrete shall conform with the structural requirements.



- c. Mixing concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cament has been added to the aggregates.
- 5 Forms
 - a. General Forms shall be used whataver necessary to confine the concrete and shape it to the required tines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or morter from the concrete Forms shall be 1/2" (6mm) thick ordinary plywood and form lumber.
 - b. Cleaning of Forms before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of montar, the grout or other foreign material.
 - c. Removal of Forms forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at 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 te 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 tes. 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 ingredents 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 readity 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 entrededed 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 sid of mechanical viorating equipment and supplemented by the hand spading and temping. Vibrators shall not be inserted into lower cursed that have commenced initial set, and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and temping and vibrators shall not be used.
 - 8. 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 stabs, where the congestion of steel near





the forms makes placing difficult, a layer of morter of the same cement-sand retios as used in concrete shall be first deposited to cover the surfaces.

- 8. Curing
 - General All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.
 - 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 Stabs on Fill. The concrete stabe on fill shall be taid on a prepared foundation consisting of sub grade and granutar fill with thickness equal to the thickness of the overlaying stab except when indicated.

B. MASONRY WORKS

- Masonry Units (Concrete Hollow Blocks):
 - a. 100mm thick for all intenor walls and 150mm thick for all exterior walls unless otherwise indicated
 - b. Use 400 per for non-load bearing blocks and 700 psi for load bearing blocks where required.
 - c. Where full height walls are constructed with concrete hollow blocks. These shall extend up to the bottom of beam or sleb unless otherwise indicated on plans. Provide stiffener columns and linter beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height and other considerations.
- 2. Sand:

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

3. Morter

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

4. Reinforcement

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

5. Plaster bond:

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

Floor Topping Preparation for Tilework. One part Portland cament and two parts sand and water but not more than three parts sand and water





C. ROOFING WORKS

- 1. Corrugated galvanized iron (G.I.) sheets, including plain aluminum sheets for cooling accessories shall be cold-rolled meeting ASTM A-153 and with speller coating of zinc of not less than0.381 kg/sq m. (1.25 ounce/sq.ft.) conforming to ASTM A-525 or pris 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 merked 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. The roofing shall be secured to the purlins with min. 2 %" 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 tap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- 3. All roofing sheets adjacent to concrete hollow block and other mesonry wells 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.

D. 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.
 - Bolts, Nuts, Stude and Rivels. 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, 3,4mm in thickness or approved equal.
- 2. Fabrication:

By mechanics skilled in the trade and in accordance with the manufacturer's directions. Metatwork 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; wellformed and finished to shape and size, with sharp lines, angle and smooth surface. Shearing and punching shall teave 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 countersurk, 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 context.



Finish coal shall be pure Pontand cement properly graded conforming to the requirements and mixed with water to approved consistency and plasticity

C. 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 ocat shall be fine powder type material like kalsomine that can be mixed into pulty consistency, with oil-based primers and paints to fill minor surface dents and imperfections.
- Paint Schedule.
 - Exterior Masonry Wall (plain cement plastered finish to be painted).
 - 1 coat skim coating, 1 coat primer, 2 coats elastomeric paint finish.
 - b Interior Masonry Wall (plain cement plastered finish to be painted).
 - 1 cost skim coating, 1 cost primer, 2 costs latex paint finish.
 - c. Interior Dry Wall
 - i. 1 coat primer, 2 coats latex paint finish
 - d. Ceiling Boards
 - 1 coal primer, 2 coats latex paint finish.
 - e. Sleo Soffit
 - i. 1 coat primer, 2 costs latex paint finish
 - f. Metal / Steel Surfaces
 - 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-sended smooth and dusted clean. All knot-holes pitch pockets or sappy partions shall be sealed with natural wood filter. Nail holes, cracks or defects shall be carefully puttied after the first cost, matching the color of paint.

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

Concrete and masonry surfaces shall be coated with concrete neutralizer and allowed to dry before any parting primer coat is applied. When surface is dried apply first coating Hairline cracks and unevenness shall be patched and sealed with approved putty or patching compound. After all defects are corrected apply the finish coats as specified on the Plans (color scheme approved).

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

In addition, the Contractor shall undertake the following:

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(except where tack welding is permitted. Do not tack weld exposed to connections). Grind smooth visible weld in finished installation.

E. MOISTURE PROTECTION

1. WATERPROOFING

- a. Cementitious waterproofing powder mix shall be cement-based, aggregate-type, heavy duty, waterproof coaling for reinforced concrete surface and masonry exposed to water. Additive binders shall be of special formulation of acrylic polymers and modifiers in liquid form used as additive with cement-based powder mix that improves adhesion and mechanical properties. Water shall be clean, clear and potable
- b Concrete surface to be applied with waterproofing shall be structurally sound, clean and free of dirt, loose montar particles paint films, oil, protective coats, efforescence, laitance, etc. All defects shall be property corrected and carefully formed to provide a smooth surface that is free of marks and property cured prior to application works.
- Furnish all labor, materials, equipment, plant and other tacilities required to complete all waterproofing work as shown on the drawings and herein specified.
 All applications shall be strictly performed by an approved waterproofing Contractor.
- d. Test waterproofed area by seventy-two (72) hours and check for any seepages.
- Note. Thickness should be as per Manufacturer's Specifications and Installation depending on the areas to be applied with.

IV. 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.

 Cement Floor Finish. Mortar topping shall be one part Pontland cement and three parts fine aggregate by loose volume.

Finish topping shall be pure Portland cement property graded, mixed with water to approved consistency and plasticity. Where required to be colored cement floor finish, red or green oxide powder shall be premixed with Portland cement complying with finish topping requirements and the desired color intensity. Cement floor finish floor hardener shall be premixed as required and applied in accordance with the manufacturer's instruction manual.

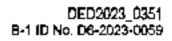
6. WALL FINISHES AND PARTITIONING

 Ceremic Tiles. Glazed tiles and trims shall have an impervious face of ceramic materials fused onto the body of the (iles and trims. The glazed surface may be clear while or colored depending on the color scheme approved by the Engineer. Standard glazes may be bright (glossy) semi-matte (less glossy), matte (duil) or crystalline (motiled 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.

 Cement Plaster Finish. Mortar mixture for brown coal 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





- Voids, cracks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces.
- b. Marred or damaged shop coets 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
- 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 nonsticky when thinned to spraying viscosity so that it will break up easily into droplets.

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

- Application shall be as per paint Manufacturer's specification and recommendation.
- Provide all drop cloth and other covering requisite for protection of floors, walls, eluminum, glass, finishes and other works.
- All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- All surfaces including mesonry wall shall be thoroughly cleaned, puttled, 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 worke
- 12 All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

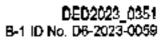
V. SANITARY / PLUMBING WORKS

- A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction. The rules, regulations and requirements of the utility companies (as applicable).
- 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.
 - 2 Water service connections including but not limited to water meters, float valves. Any end all other works involve in providing the complete operation of the water supply system.
 - Soil waste and vent system complete in all respect including but not limited to connection to existing sever, submittels, shop drawings, pipes, fittings, valves, cleanout, drams, etc. Complete and operational,
 - Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes. fittings, valves, cleanout, drains, etc. Complete and operational.



- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the diract 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 ascartain 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 shell 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 menufacture, 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 cellings and other finishes are installed.
- 5. 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 thet 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 agancy.





- U Drainage pipe shall be tested by fitting the pipe with 3m of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- 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 sessinic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bands, and smillar units
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabe 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 hengers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

VI. ELECTRICAL WORKS

A CONDUITS, BOXES AND FITTINGS

- This item shall consist of the furnishing and installation of the complete conduit work, consisting of electrical conduits, conduit boxes such as junction boxes, pull boxes, utility boxes, octagonal and square boxes; conduit fittings, such as couplings, locknuts and bushings and other electrical materials needed to complete the conduit roughingin work of this project.
- All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.
- 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
- 4. The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the electrications.
- 5. All lighting foctures and tamps are as specified and listed on lighting fixture schedule.
- All grounding system installation shall be executed in accordance with the approved plana. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
- All auxiliary systems such as telephone and intercom system, time clock system, fire alarm system and public address/hurse's call/paging system installations shall be done in accordance with the approved design.





- B. 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. WRES AND WRING DEVICES.

- 1 This item shall consist of the furnishing and installation of all wires and wiring devices consisting of electric wires and cables, wall switches, convenience receptacles, heavy duty receptacles and other devices shown on the approved Plans but not mentioned in these specifications.
- 2. Wires and cables shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark. Unless specified or indicated otherwise, all power and lighting conductors shall be insulated for 600 volts. All wires shall be copper, soft drawn and ennealed, smooth and of cylindrical form and shall be centrally located inside the insulation.
- 3 Conductors or wires shall not be drawn in conduits until effer the coment plaster is dry and the conduits are thoroughly cleaned and free from dirf and moisture. In drawing wires into conduits, sufficient stack shall be allowed to permit easy connections for fixtures, switches, receptacles and other wring 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.
- All joints, taps and splices on wires larger than 14 mm shell 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 withing shall be made mechanically and electrically secured by approved splicing devices and taped with nubber and PVC tapes in a manner which will make their insulation as that of the conductor.
- All wall swrtches 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 could wire or similar devices. Plaster fitting shall not be permitted. Plates installed in wet locations shall be gasketed.
- When more than one switch or device is indicated in a single location, gang plate shall be used.

C. POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS

 This Item shall consist of the furnishing and installation of the power load center unit eubstation or low voltage switchgear and distribution panelboards at the location shown or the approved Plans complete with transformer, circuit breakers, cabinets and all accessories, completely wired and ready for service.

- 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.
- Power Load Center Unit Substation. The Contractor shall furnish and install an indeortype Power Load Center Unit Substation at the location shown on the approved Plans if required, it shall be totally metal-enclosed, dead front and shall consist of the following coordinated component parts:
 - High Voltage Primary Section. High voltage primary incoming line section consisting of the following parts and related accessories:
 - i. One (1) Air-filled Interrupter Switch, 2-position (open-close) Installed in a suitable air filled metal enclosure and shall have sufficient interrupting capacity to carry the electrical load. It shall be provided with key interlock with the cubicle for the power fuses to prevent access to the fuses unless the switch is open.
 - ii Three (3)-power fuses mounted in separate compartments within the switch housing and accessible by a hinged door.
 - iii. One 1) set of high voltage potheads or 3-conductor cables or three single conductor cables.
 - iv Lightning arresters shall be installed at the high voltage cubicle if required.

ftems (i) and (ii) above could be substituted with a power circuit breaker with the correct rating and capacity

b. Transformer Section. The transformer section shall consist of a power transformer with ratings and capacities as shown on the plans. It shall be oil liquid-filled nonflammable type and designed in accordance with the latest applicable standards.

The transformer shall be provided with four (4) approximately 2 1/2 % rated KVA taps on the primary winding in most cases one (1) above and three (3) below rated primary voltage and shall be changed by means of externally gang-operated manual tap changer only when the transformer is de-energized. Tap changing under load is acceptable if transformer has been so designed.

The following accessories shall be provided with the transformer, namely: drain valve, sampling device, filling connection, oil liquid level gauge, ground pad, top filter press connection, lifting lugs, diagrammatic nameplate, relief valve, thermometer and other necessary related accessories.

The high-voltage and low-voltage bushings and transition flange shall be properly coordinated for field connection to the incoming line section and low voltage switchboard section, respectively.

- c. Low Voltage Switchboard Section. The low-voltage switchboard shall be standard modular-unitized units, metal-built, dead front, safety type construction and shall consist of the following.
 - i. Switchboard Housing. The housing shall be heavy gauge steel sheet, dead front type, gray enamel finish complete with frame supports, steel bracings, steel sheet panelboards, removable rear plates, copper busbars, and all other necessary accessories to insure sufficient mechanical strength and safety. It shall be provided with grounding boils and clamps.
 - Secondary Metering Section. The secondary matering section shall consist of one (1) ammeter. AC, indicating type; one (1) voltmeter, AC, indicating type, one (1) ammeter transfer ewitch for 3-phase; one (1) voltmeter transfer switch for 3-phase; and current transformers of suitable rating and capacity.

The above-mentioned instruments shall be installed in one compartment above the main breaker and shall be complete with all necessary accessories completely wired ready for use



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iii. Main Circuit Breaker. The main circuit breaker shall be draw-out type, manually or electrically operated as required with ratings and capacity as shown on the approved Plans.

The main breaker shall include insulated control switch if electrically operated, manual trip button, magnetic tripping devices, adjustable time overcurrent protection and instantaneous short circuit trip and all necessary accessories to insure safe and efficient operation.

iv. Feeder Circuit Breakers. There shall be as many feeder breakers as are shown on the single line diagram or schematic riser diagram and schedule of loads and computations on the plans. The circuit breakers shall be drawout or molded case as required. The circuit breakers shall each have sufficient interrupting capacity and shall be manually operated complete with trip devices and all necessary accessories to insure safe and efficient operation. The number, ratings, capacities of the feeder branch circuit breakers shall be as shown on the approved Plans.

Circuit breakers shall each he of the indicating type, providing 'ON' - "OFF and "TRIP" positions of the operating handles and shall each be provided with nameplate for branch circuit designation. The circuit breaker shall be so designed that an overload or short on one pole automatically causes all poles to open.

- d. Low Voltage Switchgear (For projects requiring low-voltage switchgear only) The Contractor shall furnish and instell a low-voltage switchgear at the location shown on the plans. It shall be natal-clad, dead front, free standing, safety type construction and shall have copper busbars of sufficient size, braced to resist allowable root mean square (RMS) symmetrical short circuit stresses, and all necessary accessories. The low-voltage switchgear shall consist of the switchgear housing, secondary metering, main breaker and feeder branch circuit.
- e. Grounding System. All non-current carrying metallic parts like conduits, cabinets and equipment frames shall be properly grounded in accordance with the Philippine Electrical Code, latest edition.

The size of the ground rods and ground wires shall be as shown on the approved. Plans. The ground resistance shall not be more than 5 ohms.

f Panelboards and Cabinets. Panelboards shall conform to the schedule of panelboards as shown on the approved Plans with respect to supply characteristics, rating of main lugs or main circuit breaker, number and ratings and capacities of brench circuit breakers.

Panelboards shall consist of a factory completed dead front assembly mounted in en enclosing flush type cabinet consisting of code gauge galvanized sheet steel box with trim and door. Each door shall be provided with catch lock and two (2) keys. Panelboards shall be provided with directories and shall be printed to indicate load served by each circuit.

Parterboard cabinets and trims shall be suitable for the type of mounting shown on the approved Ptens. The inside and outside of penelboard cabinets and trims shall be factory painted with one rust-proofing primer coat and two linish shop coats of penelboard gray ensmel

paint.

Main and branch circuit breakers for panelboards shall have the rating, capacity and number of poles as shown on the approved Plans. Breakers shall be thermal megnetic type. Multiple breaker shall be of the common top type having a single operating handle. For 50-ampere breaker or less, it may consist of single-pole breaker permanently assembled at the factory into a multi-pole unit.

 The Contractor shall install the Power Load Center Unit Substation or Low-Voltage Switchgear and Panelboards at the locations shown on the approved Plans



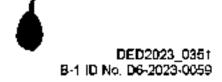


Standard panels and cabinets shall be used and assembled on the job - All panels shall be of dead front construction furnished with trims for flush or surface mounting as required

- D. 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).
- E. Drawinge, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- F. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- G. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmenlike manner by competent workmen.
- H. When the tests and inspections have been completed, a tabel shall be attached to all devices tested. The tabel shall provide the name of the testing company. The date the tests were completed, and the initials of the person who performed the tests.

I. 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.
- Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - a. Rated for environmental conditions at installed location.
 - i. Indoor Dry and Clean Locations' NEMA, Type 1.
 - ii Outdoor Locations: NEMA, Type 3R.
 - iii. Kilchen and Wash-Down Arees NEMA, Type 4X, stainless steel
 - iv Indeer Locations Subject to Dust, Falling Dirt, and Dripping Noncorresive Liquids: NEMA, Type 12.
 - Outdoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, Type 5R
 - b. Front. Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
 - c. Hinged Front Cover Entire front transhinged to box and with standard door within hinged transcover
 - d. Skirt for Surface-Mounted Panelboards: Same gauge and finish as panelboard front with flanges for allachment to panelboard, wall, and ceiling or floor.
 - Gutter Extension and Barrier. Same gage and finish as panelboard enclosure, integral with enclosure body. Arrange to solate individual panel sections.
 - f. Finishes:
 - Panels and Trim: Steel and galvanized steel, factory linished immediately after cleaning and prefreating with manufacturer's standard two-coat, baked-on finish consisting of prime cost and thermosetting topcoat.
 - ji Back Boxes: Galvanized steel Same finish as panels and trim.
 - In Fungus Proofing Permanent fungicidal treatment for overcurrent protective devices and other components.



- g. Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover
- 3 Incoming Mains Location: Top or Bottom.
- 4. Phase, Neutrel, and Ground Buses
 - a. Material. Hard-drawn copper, 98 percent conductivity
 - Equipment Ground Bus. Adequate for feeder and branch-circuit, equipment grounding conductors; bonded to box.
 - c. Neutral Bus 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for ponlinear loads.

VII. MECHANICAL WORKS

- A WATER-PUMPING SYSTEM
 - This item shall consist of furnishing and installation of water pumping system, inclusive of all piping and pipe fitting connections, valves, controls, electrical wirings, tanks and all accessories ready for service in accordance with the approved Plans and Specifications.
 - Exposed piping shall be provided with concrete seddle 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 authornes 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
- O All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.
- E. Execute work in etrict accordance with the best practices of the trades in a thorough, substantial, workmanlike menner by competent workman.
- F When the tests and inspections have been completed, a label shall be encoded 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.

ENGR. CRISTINE ANN D. TIPAN Planning and Design Division

ENGR. MIKE JOSEPH'G. ICAWAT Planning and Design Division

Section VII. Drawings

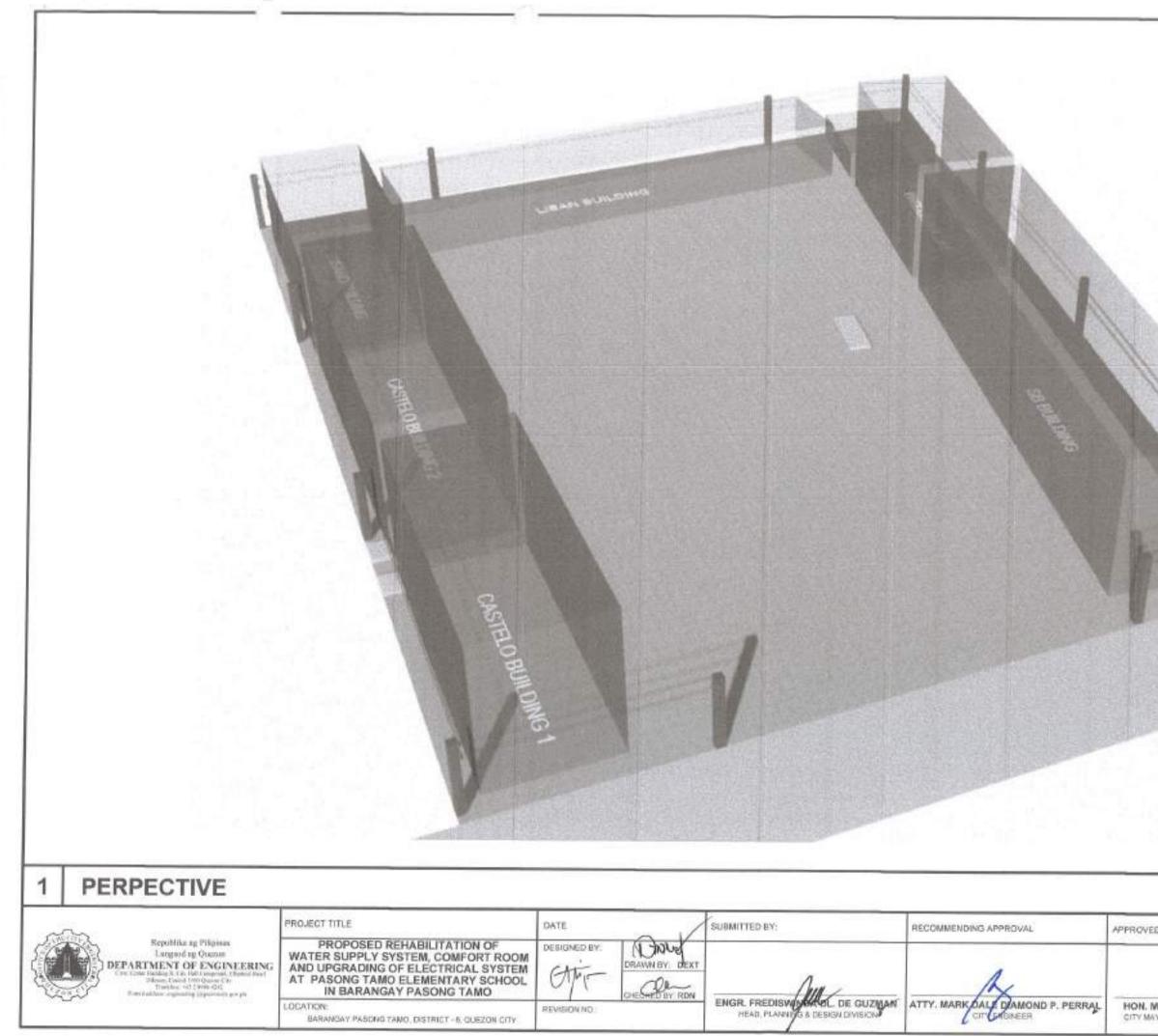
[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

THE SITE THE	AR-1 AR-2 AR-2 AR-2 AR-3 AR-9 AR-9	LOCATION MAP LOCATION MAP LOCATION MAP PERSPECTIVE SITE DEVELOPMENT PLAN BLOW- UP PLAN OF CONCI HRONT ELEVATION SIDE ELEVATION SIDE ELEVATION TOILET LAYOUT (SB BUILD) TOILET LAYOUT (SB BUILD) TOILET LAYOUT (UBAN BUILD) TOILET LAYOUT (UBAN BUILD) TOILET LAYOUT (CASTELO TOILET LAYOUT (CASTELO
	AR-10	PWD TOLLET LAYOUT STRUCTURA CONSTRUCTION NOTES CONCRETE PAD WALL PODT ROOF FRAMING PLAN
	N.T.S	WALL TANK SUPPORT
		PLUMBING
	PL-1	GENERAL NOTES
		LEGEND AND SYMBOLS
	PL-2	
THE REAL FROM THE REAL MELTING	PL-3	EQUIPMENT DESCRIPTION
THE SITE	PL4	WATER PUMPY ASSEMBLY DU GROUND FLOOR WATERLINE (SB BUILDING) TYP. TO 2ND FLOOR TO 43H F
		WATERLINE LAYOUT (SS BUI
		TYPICAL ISOMETRIC WATERL
1 the second of the		GROUND FLOOR TOILET WAT (SUSANO BUILDING) GROUND FLOOR TOILET WAT
	PL-5	and the second se
- SIGNAL AND		GROUND FLOOR WATERLINE (PAGCOR BUILDING.)
CONORESSIONAL-AND COMPANY		TYPICAL 2ND FLOOR TO 41H I WATERLINE LAYOUT (PAGCO
JUDIECON THANK TO THE	PL-6	GROUND FLOOR TOILET WATE (CASTELO - I BUILDING)
# In moneyer 1 _ t		TYPICAL 2ND FLCOR TO 4TH F WATERLINE LAYOUT (CASTEL
		GROUND FLOOR TOILET WATE (CASTELD - II BUILDING)
2 LOCATION MAP	NLE:	TYPICAL 2ND FLOOR TO 4TH FT WATERLINE LAYOUT (CASTEL
PROJECT TITLE		the local sector
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BARANGAY RABONG TANG, DISTRICT - & QUEZON CITY HEVISION RO. HEAD, PLANNING & DESIGN DIVISION	1 Oct	EER OITY M

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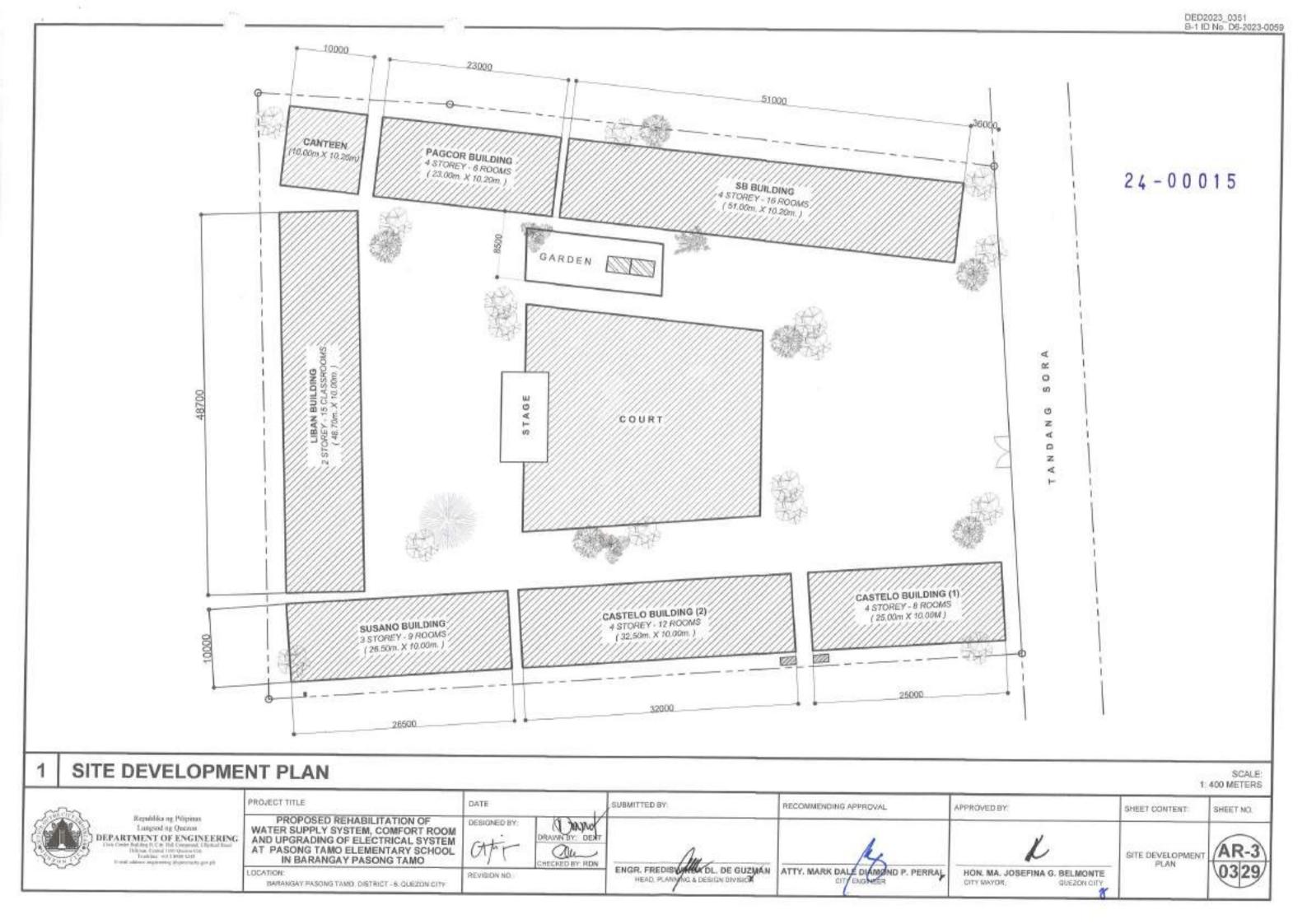
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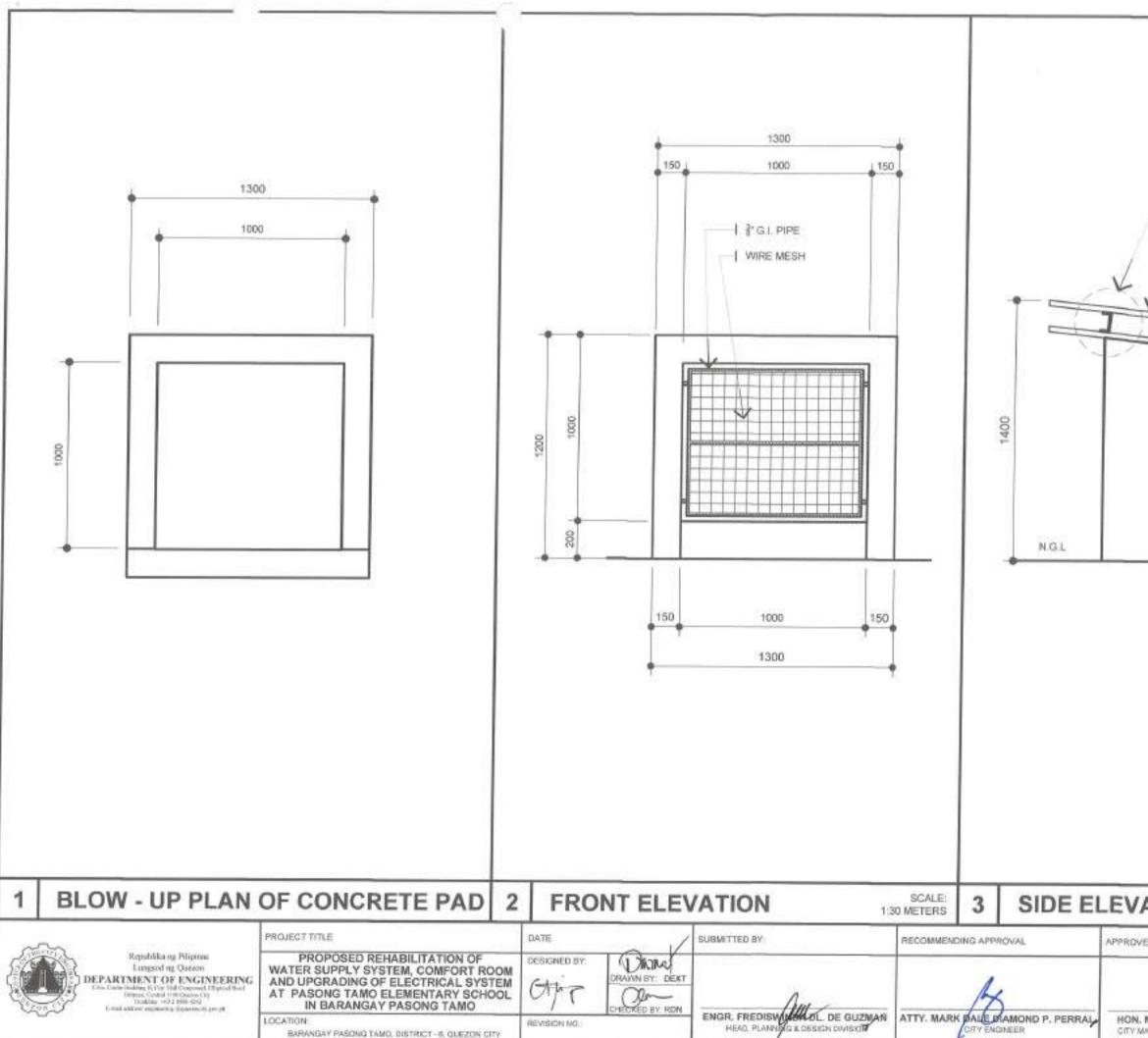
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	-	GE	NERAL NOTES	
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TE PAD	EL-3	SEN	MCE ENTRANCE DETAIL	- C
	EL-S		IEMATIC DIAGRAM	
		SCH	EDULE OF LOADS: MOP	(NEW)
G)	EL-4	SCH	EDULE OF LOADS, FEED	DER LINE - I
G.)	EL-14	SCH	EDULE OF LOADS: SB - I	MAIN (EXISTING)
ILDING)		SCH	EQULE OF LOADS: SB (1	EXISTING)
XING)	EL-5	SCH	EQULE OF LOADS: S8 - 0	GROUND FLOOR
II, DING-)	_	(EX	ISTING)	
URLDING)	_	SCH	EDULE OF LOADS: S8 - 5	SECOND FLOOR
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LAYOUT	- 1		DULE OF LOADS: LIBAN	- MAIN
	- 1		REPLACEMENT)	
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AYOUT	100		IND FLOOR (EXISTING)	
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		BCHED	ULE OF LOADS: SUSAN	0 - GROUND FLR.
DOR	E1 11	Chief Charles	TING) SECOND FLOOR #	
- I BUILDING	EL-11	SCHED	ULE OF LOADS: COVER	ED COURT
LINE LAYOUT		(EXIST		
			ULE OF LOADS: CASTE	
NOR			AL TO CASTELO - 1: 2F.	
- II BUILDING)	EL-12	SCHED	ULE OF LOADS CASTEL	.0 - 1 - GROUND
		FLR.(1	TYP. TO CASTELO - 1: 2F.	3F. 4F EXISTING
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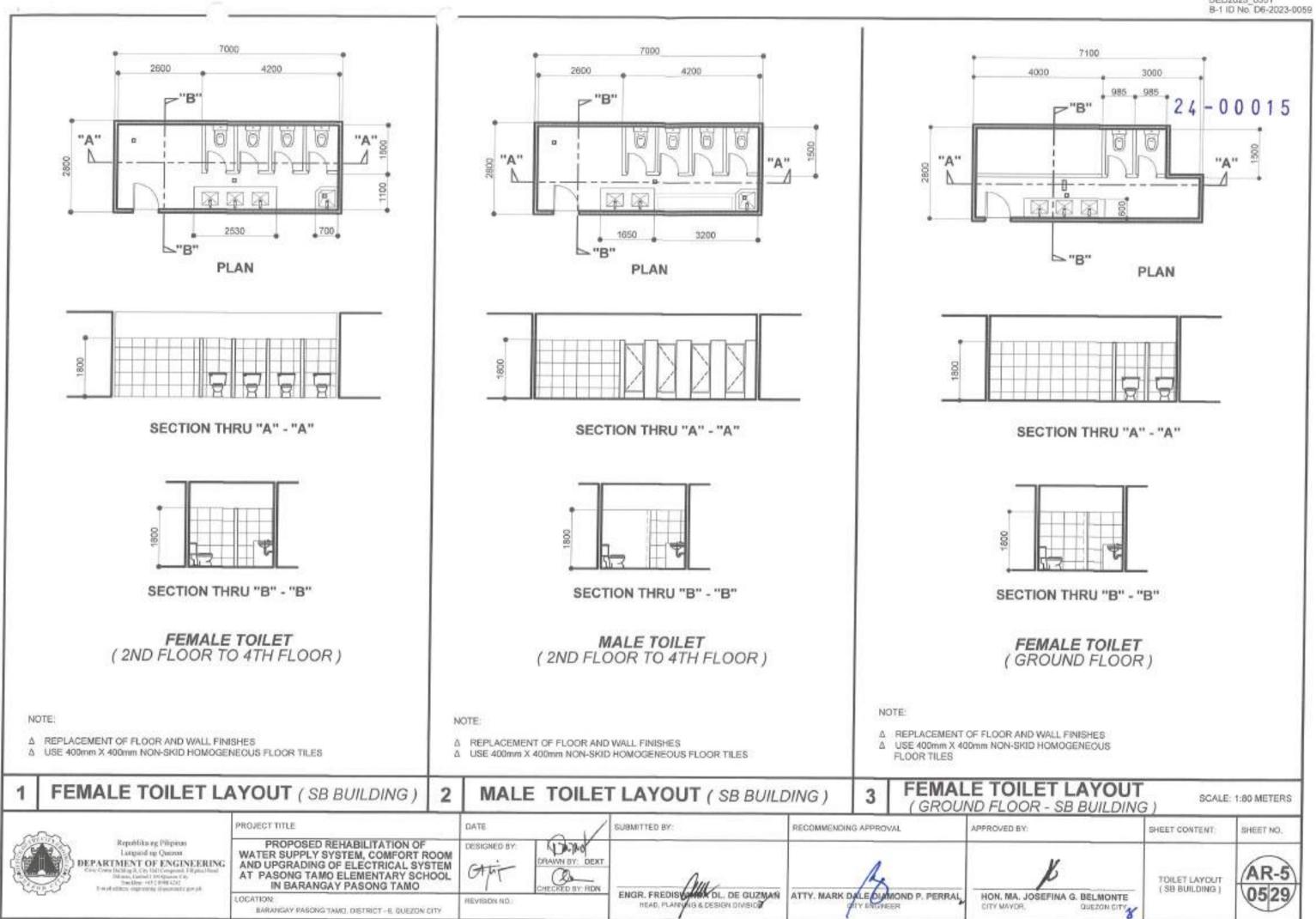


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MA. JOSEFINA G. BELMONTE AYOR. GUEZON GITY	PERSPECTIVE	AR-2 0229

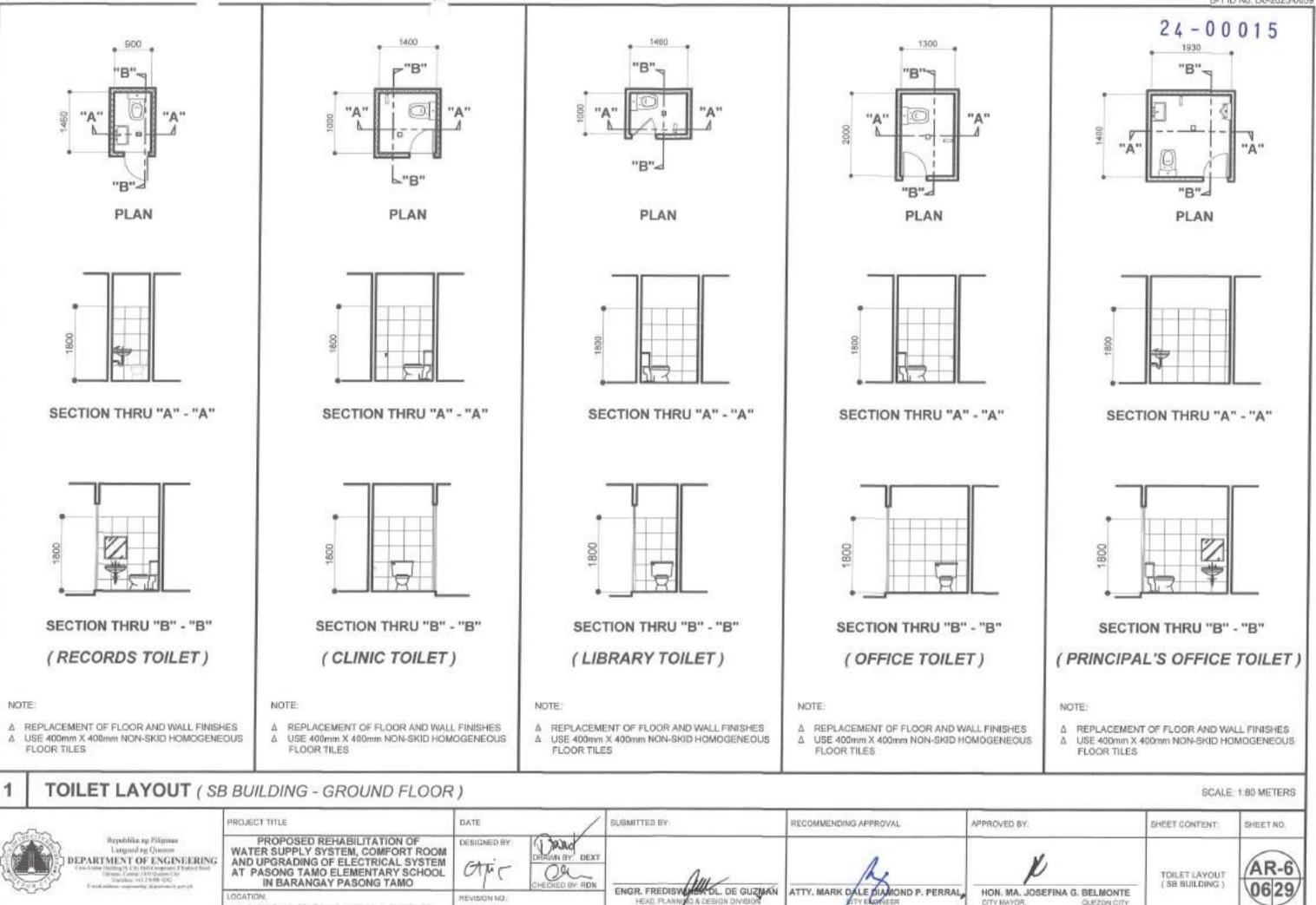




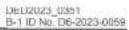
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D.8Y:	SHEET CONTENT	SHEET NO.
MA. JOSEFINA G. BELMONTE VOR DUEZON CITY	BLOW - UP PLAN OF CONCRETE PAD FRONT ELEVATION SIDE ELEVATION	

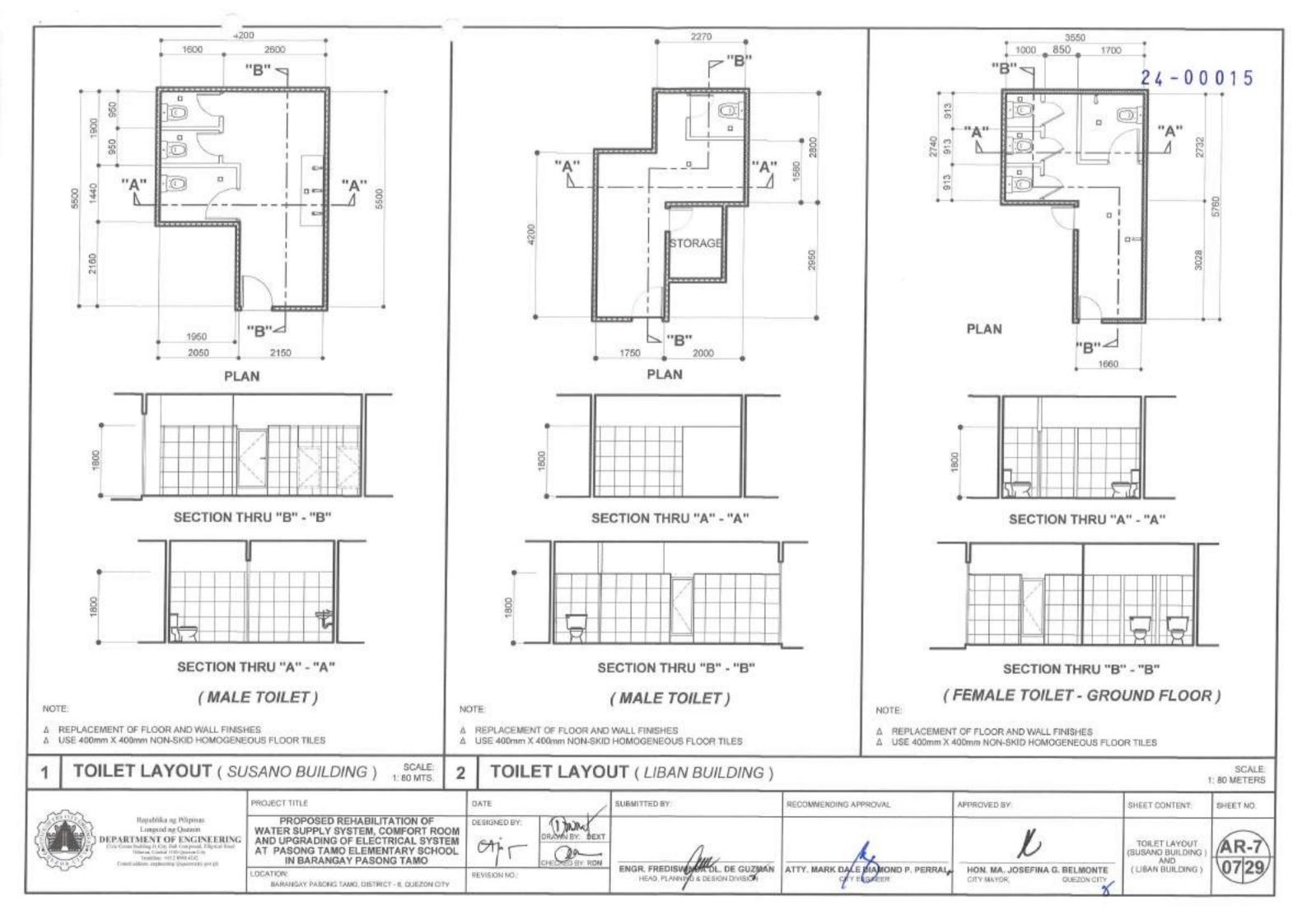


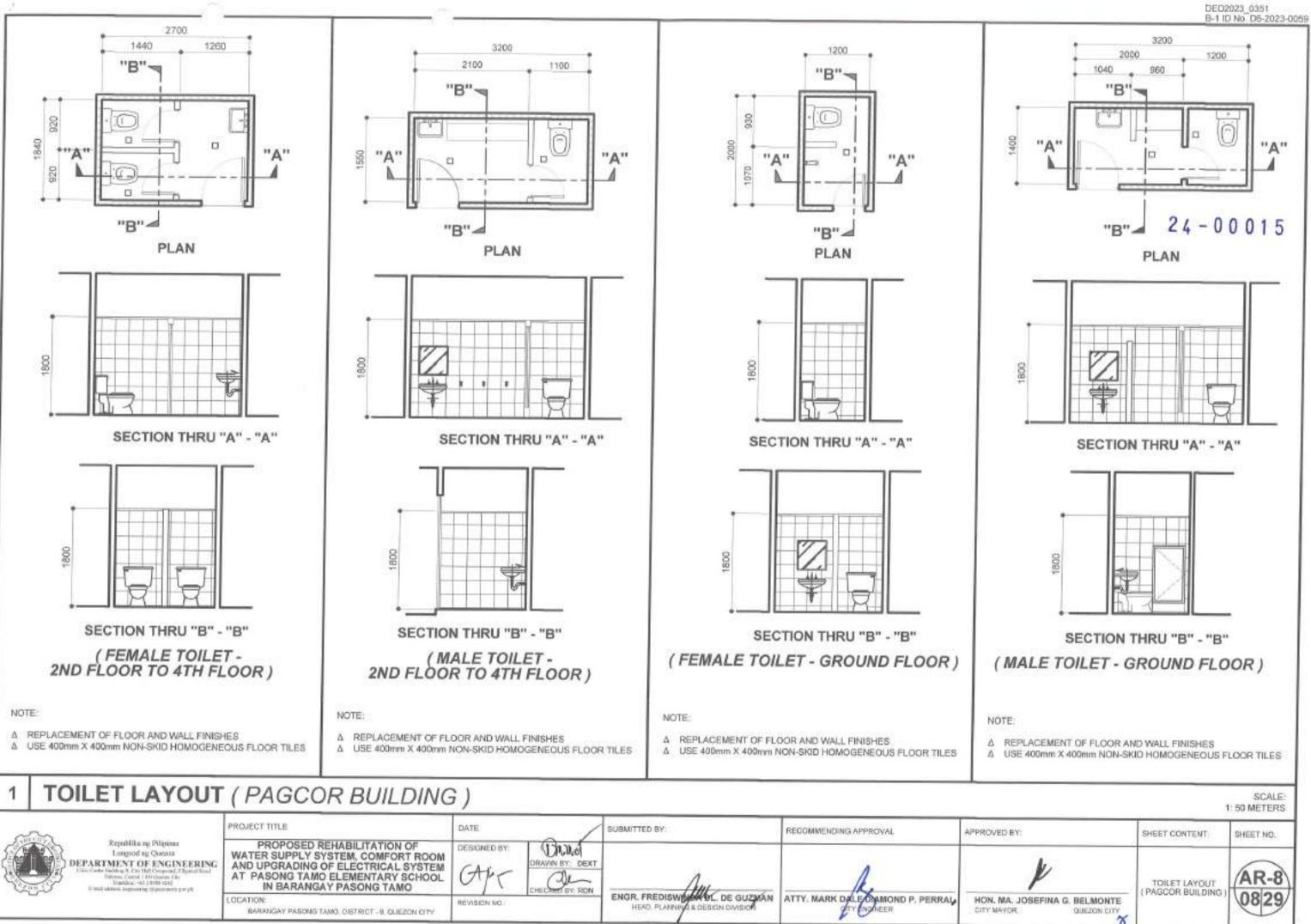
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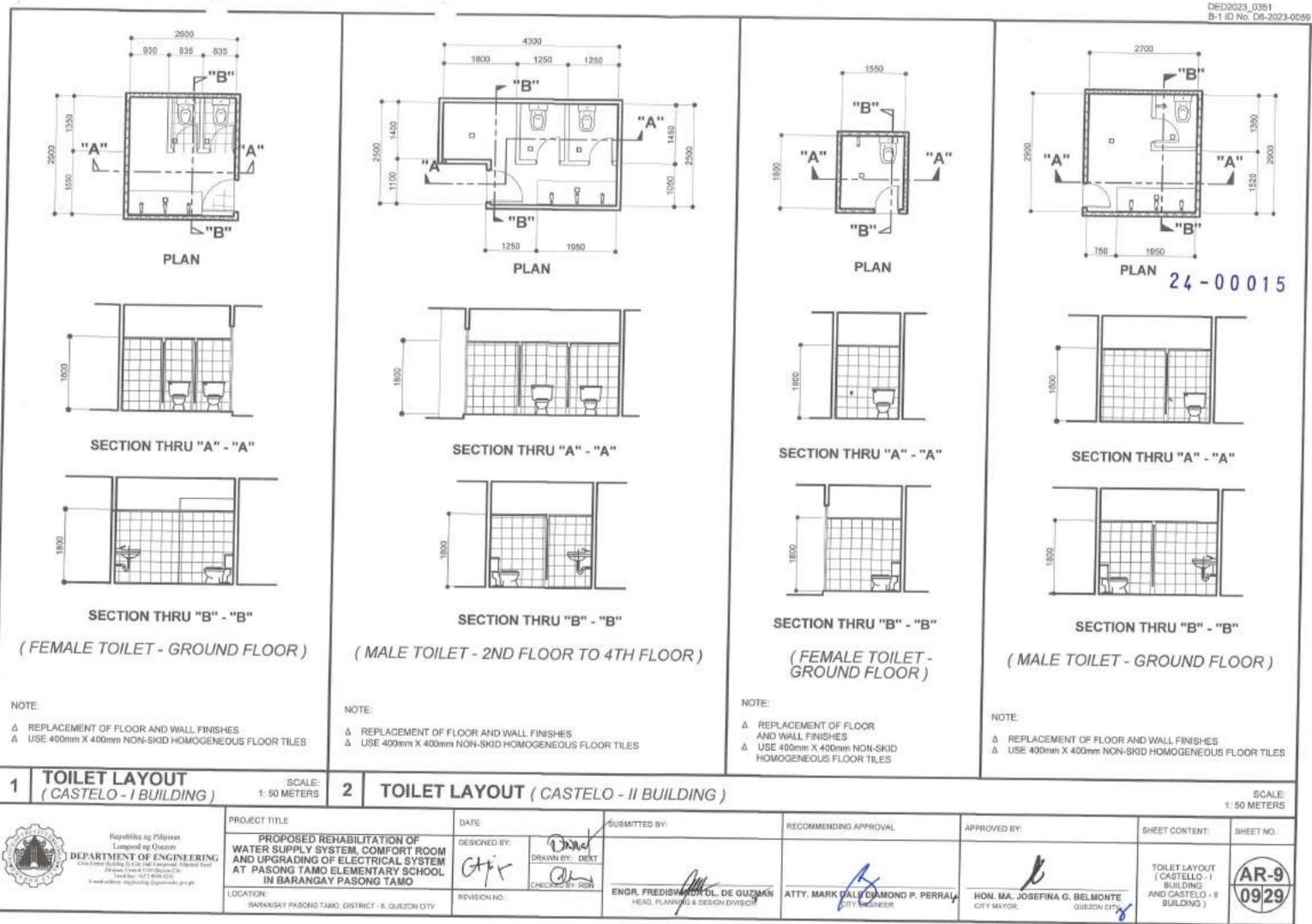
-7-	PROJECT TITLE	DATE	/	SUBMITTED BY	RECOMMENDING APPROVAL	APPROVE
Republika ng Pilipinas Langsod ng Queron DEPARTMENT OF ENGINEERING Conductor Hulling 1.5 to the Composed (Flattor New) Conductor Hulling 1.5 to the Composed (Flattor New)	PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL IN BARANGAY PASONG TAMO	OFFIC		ENGR. FREDISWARK DL. DE GUZMAN	- Az	
	LOGATION. BARANGAY PASONG TAMO, DISTRECT - 6, QUEEON CITY	REVISION NO.		HEAD, PLANNING & DEBIGN DIVISION	ATTY, MARK DALE DIAMOND P. PERRAL	HON. I

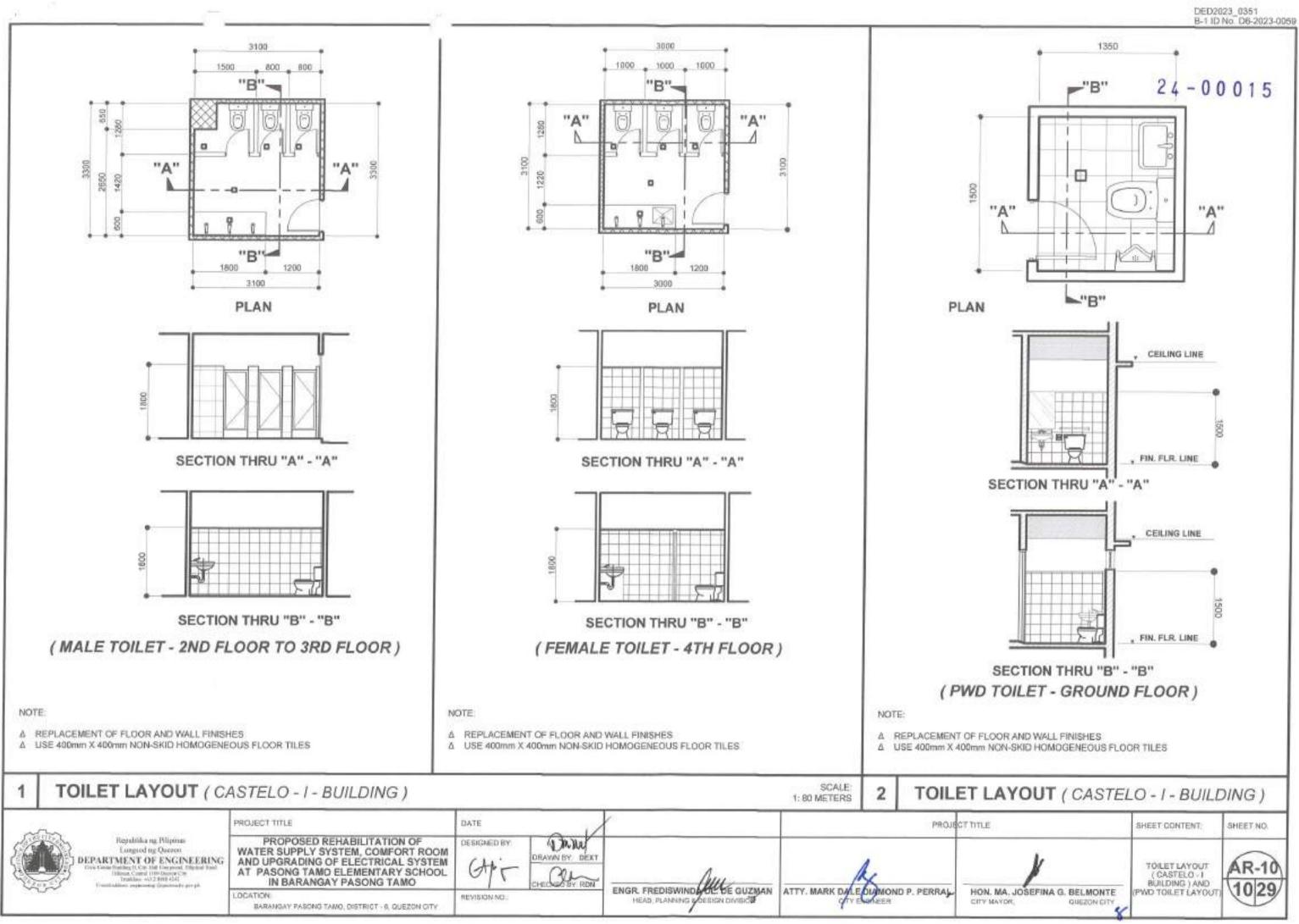






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Republika ng Pilipinas Langsof ng Queata DEPARTMENT OF ENGINEERING Charles India 3. Control Participanti Road Manana Lagnoring (Egunda Road Manana Lagnoring (Egunda Road Manana Lagnoring (Egunda Road Manana Lagnoring (Egunda Road)	PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL IN BARANGAY PASONG TAMO LOCATION: BARANGAY PASONG TAMO, DISTRICT - B, QUEZON CITY		NOT DEXT	ENGR. FREDISWIJE DE GUZIKAN	ATTY. MARK DALE DAMOND P. PERRAL	HON. M





AYOUT ( CASTE	LO - I - BUILL	DING)
	SHEET CONTENT:	SHEET NO.
MA, JOSEFINA G. BELMONTE	TOILET LAYOUT (CASTELO - I BUILDING ) AND (PWD TOILET LAYOUT)	AR-10 1029

### GENERAL NOTES

- GEINERAL NOTES
   AL WORKS SHULLE DEXCUTEDIN ACCORDINGE TO THE LATEST EDITION OF THE NATIONAL STRUCTURAL CODE OF THE PHUPPINEL
  THE NATIONAL BUILDING CODE OF THE PHUPPINES AND OTHER RELATED LAVE AND ORDEWACES OF THE SHULP SHILL
  THE NATIONAL BUILDING CODE OF THE PHUPPINES AND OTHER RELATED LAVE AND ORDEWACES OF THE SHULP SHILL
  THE NATIONAL BUILDING CODE OF THE PHUPPINES AND OTHER RELATED LAVE AND ORDEWACES OF THE SHULP SHILL
  ORDER SHALL BE SUFERMED OF A RECEIPTING PROFESSIONAL BULAND OF THE VALID CONTINUES
  ALL WORKS SHALL BE SUFERMED OF A RECEIPTING THE SHIP TREFFORMED THE ACTIVITY
  ALL WORKS SHALL BE CORPORED AND TURNED ON IN TO AVOID CONTINUES OWNER OF ACTIVITIES
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  AND ORDER THE SHIP SHALL BE CORPORATED AND TURNED OWNER TO THE CONTINUES OWNER OF AND
  ORDERPHACY (DED POLISE) HEREIN
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  ORDERPHACY (DED POLISE) HEREIN
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  ALL WORKS ALL SHALL BE RECORD IN STRUCTURAL MEDIADS, UNLESS OTHERWISE ALLOWED
  ALL WORKS TO BE ENDEDDED IN STRUCTURAL MEDIEDS, UNLESS OTHERWISE ALLOWED
  ALLOWED
  ORDER TO AND COMM SECO

### 18. FORME AND BCAPFOLDING

IN URBANES ADEQUATE SHORING AND IMAGING TO WITHSTAND THE IMPOSED LOADS DURING CONSTRACTION TO 2 AURIMENT SINUL BE DITABLISHED AND WILLIATED PHOR TO ANY CONCRETE POLYMMACTIVITIES.

### 11. CONCRETE AND RENPORCEMENTS

TE LALL CONCRETE SIVAL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY. SIGHT CRICKVIS WITH CONRECTONOIS MAXIMUM SEE ACONSCILETAND SUMPS AS POLICINE.

LOCATION	STRENGTH	MAX SIZE OF AGGREGATES	MAX, SLUMP
<ul> <li>SLAB ON GRADE, DURISS, PAVEMONTS, WALL POOTING</li> </ul>	3000 PSI (21 Mpc)	1 m (25mm)	4 In. (108mm)
<ul> <li>BEAMS, COLUMNS BUBPENDED BLAR, COLUMN FOOTHIS</li> </ul>	4000 PSI (28 M (4)	344 V1. (18 MIN)	4 m. (1930mm)

11 2 ALL REPORTING BARE BHALL COMPONINTO PHONE OF ADD 275 (2758/16) FOR COMPUTATION AND SMALLER BARS AND GRADE ITS (2758/16) FOR 16mm @ AND LARDON DAYIS TLENWIGHT MINIMUM CONCRETE-COMPRIPOR REINFORCEMENTER AS ROLLOWS

CONCRETE COVER	
CONCRETE DEPOSITED CIRECILY AGAINST GROUND	75 mm
RURPENDED ILANS	- 20 mit
SLAIP ON GRADE	40 mm
WALLS ABOVE ORADE	25/49
BCAVE & COLUMNS	40.001

11-FALL ANOIDE BOLTS, SOMES & AND OTHER INSERTS SHALL SE PROPERLY POSITIONED AND I RECIPEO IN PLACE PROFE TO PLACING OF CONCRETE

CONCRETE: 118 ALL CONCRETE SHALL BE REPT MORT FOR A NEWARK OF SEVEN (T) CONSECUTIVE DATE IMMEDIATELY AFTER FORMING BY THE USE DF WE'T BURLIN, FOR SPRAYING, CURING COMPOUNDS ON OTHER APPROVED METHODS. 11.8 ECHEDILE FOR STRETENG OF FORMS AND SHORES

CURING TIME
24 HR8
14 DW15
12 24018
21.0AY0

### 12. STRUCTURAL STEEL AND PLATES

12.1 ALL ETRUCTURAL STEEL SHALL COMPANY TO ADDY (L.M) SPECIFICATIONS WITH MINIMARY YELD INTERNITY SHIDD MPA ISSAMCHON & FASTEMEN BOLTS, ALL REATE BAALL COMPANY TO ADDY (L.M.) SPECIFICATIONS ISSAMCHON & FASTEMENT BOLTS, ALL REATE BAALL COMPANY TO ADDY SHOLL SECTIONS INTERNATIONAL WILL STRENGTH ~ ECOMP.

### 13. FOUNDATION

IS TPOUNDATION IS DEDIGNED SASED ON NATIONAL BUILDING CODE OF THE PHILIPPINES FOR AN ALLOWING SOL BEARING CAPACITY OF

Sec View 132 TOX MALL ROOT ON MATURAL BOST, ON MATURAL BOS, UNLERE DO KENTE OF REPORT THE ENGINEERS, NO PART OF THE FOUNDATION SHALL NEXT ON PAUL 133 THE CONTINUED SHALL NOTIFY THE DAMAGER UPON COMPLETION OF POLYMONICH FOR ACTUAL SOL. CONDITIONS WHICH TO HOLD CONFIRMING TO THE SOL, BRANCE GARGETY FOR RECORDER SAMARCH.

### 14. MASONRY WALLS

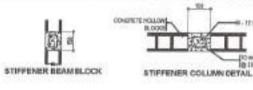
141MORTHAR & OROLT FOR ALL COREPLETE MASONITY SHALL CONFIGN TO ASTIN 270 - TYPE IN A SHALL HAVE A MIMUM OF 36 DWY STATUARD OVUMBER COMPRESSUE INTERNOTION OF 17.8 MM (DOC PM). 143AUL CHE BINGLI PE LAD GUTWITH THE CELLS IN UNCOSTITUCTED VERTICAL CONTINUITY. ALL CELLS INSPECIALLY THOSE WITH REPROTICIENCES INVALLS OF ALLOW WITH MORTHR 143ASHIP ORCEMENT, AN TAXUARTED SECURISHING OF PROVIDED UNLOSS OTHERWISE SPECIFIED IN THE PLAN 144A LORDING WALLS SHALL BE RECIDED ON SHALL BE PROVIDED UNLOSS OTHERWISE SPECIFIED IN THE PLAN 144A LORDING WALLS SHALL BE RECIDED ON SHALL BE PROVIDED UNLOSS OTHERWISE ARECURED 144A 2 FOR COORS & WINDOWS OF SMULTED ELEVER SAME RUDGE & INTERPRET AN RECORD 144A 2 FOR COORS & WINDOWS OF SMULTED ELEVEL BARK SAME AND STEPPENER MEAN RUDGE

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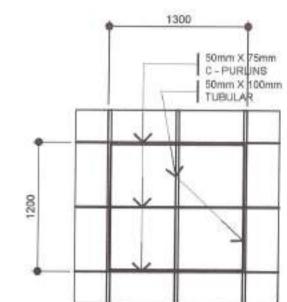
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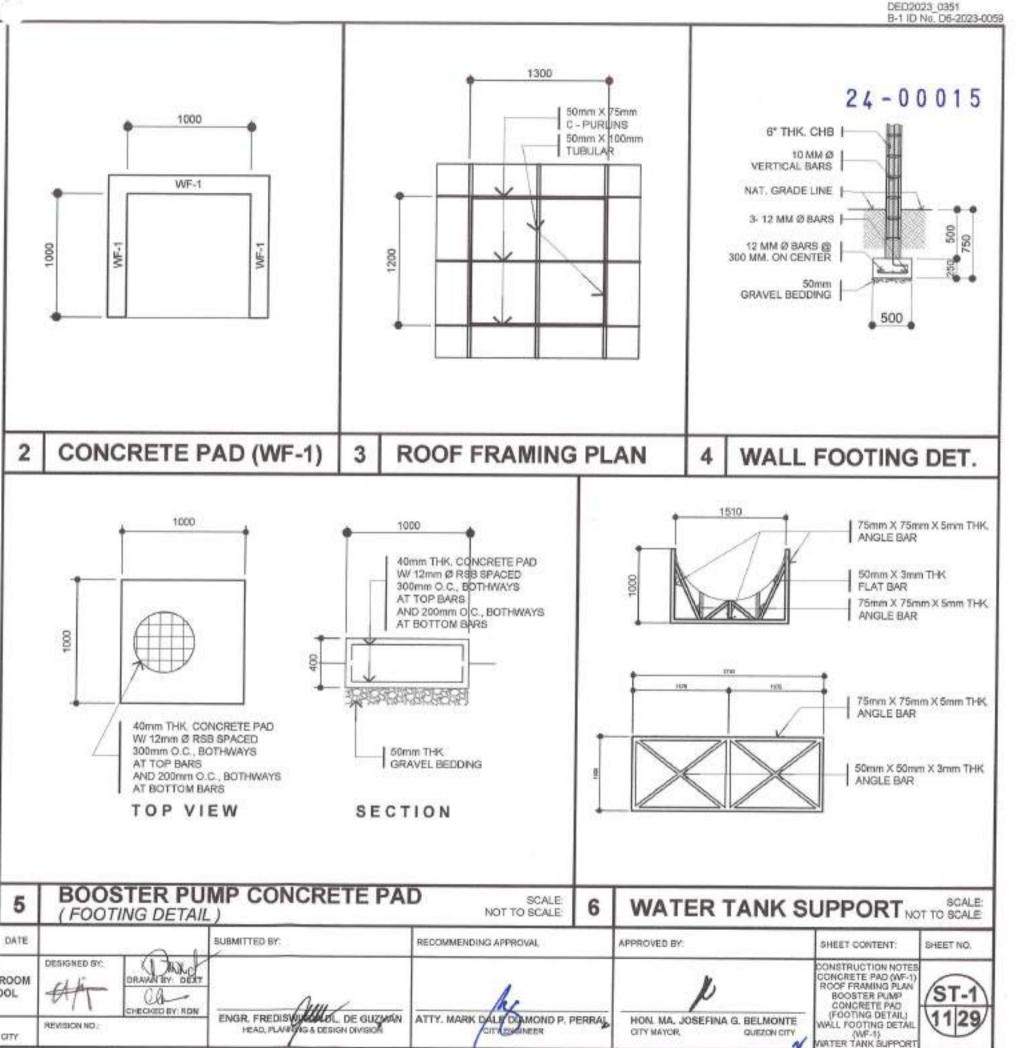
PROJECT TITLE

CONSTRUCTION NOTES



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•	WF	-1
-	WF-1	WF-1





**Bepublika** ng Pilipinas PROPOSED REHABILITATION OF Langsod ag Queson WATER SUPPLY SYSTEM AND COMFORT ROOM DEPARTMENT OF ENGINEERING AT PASONG TAMO ELEMENTARY SCHOOL Scilding R. City Natl Compared, 10 fer 17 June, Oniosi 11:00 Quesari Chip Tradi fee: +65 3 8589 4541 IN BARANGAY PASONG TAMO Consil address which seting distained prope LOCATION BARANGAY PASONG TAMO, DISTRICT - 6, QUEZON CITY

SCALE

NOT TO SCALE

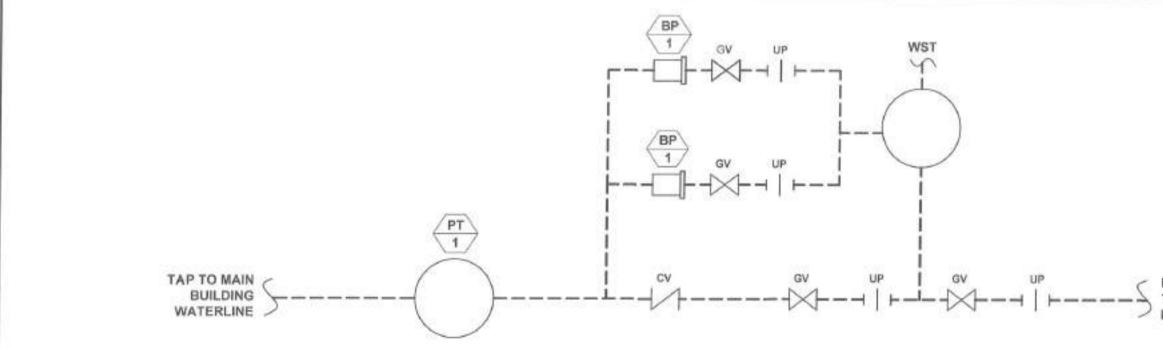
	AND OTHER RELATED LAWS 2 ALL WORKS SHALL BE SUPER 3 ALL WORKS SHALL BE COORD	ITED IN ACCORDANCE TO THE UNIFORM PLUMBING CO AND ORDINANCES OF THIS CITY. RVISED BY A REGISTERED PROFESSIONAL RELATED TO DINATED WITH THE RESPECTIVE TRADES SO TO AVOID	THE ACTIVITIES BEING U	UNDERTAKE	N							
		IALL BE SECURED AND TURNED OVER TO THE CITY CATIONS SHALL BE CORRECTLY REVIEWED BY THE COM	NTRACTOR AND SHALL #	VMEDIATEL	Y BE INFORMED IF DISCREPANCY (IES)							
	FOUND HEREIN, 6 ALL DIMENSIONS, ELEVATION	IS AND REFERENCES SHALL BE VERIFIED WITH THE ACT	TUAL CONDITION PRIOR	TO EXECUT	ION.						24-00	015
	7. SHOP DRAWINGS SHALL BE P	ROVIDED AS NECESSARY PRIOR TO THE EXECUTION.					1				24 00	010
	<ol> <li>ALL WORKS SHALL BE TESTE DOCUMENTED PROPERLY.</li> </ol>	D AND COMMISSIONED AS INDICATED IN THE SPECIFIC/	ATION WITH THE PRESEN	ICE OF ALL	PARTIES INVOLVE. RESULT SHALL BE		1					
	9. ALL PIPES AND LAY-OUT ARE	ONLY DIAGRAMMATIC, ACTUAL LAYOUT OF PIPES AND	FITTINGS, UNLESS OTHE	RWISE REC	UIRED, SHALL BE PROPERLY CONCEALED.							
	10. NO PIPES SHALL BE ALLO	WED TO BE EMBEDDED IN STRUCTURAL MEMBERS, UNI	ESS OTHERWISE APPRO	OVED.					/60\			l i
	<ol> <li>ALL PIPES, FITTINGS, EQU THE DEPARTMENT OF TRADE</li> </ol>	IPMENT AND FIXTURE SHALL PASS THE MINIMUM STAN AND INDUSTRY.	DARDS AS PER MATERIA	U. SPECIFIC.	ATION WITH THE SEAL OF APPROVAL BY				⊕	BOOSTER PUM	P	
		IPMENT AND FIXTURES SHALL BE INSTALLED IN ACCOR	DANCE TO MANUFACTU	RER'S SPEC	FICATION AND INSTRUCTION.			-				
		SHALL BE PROVIDED ACCORDINGLY.					1			PRESSURE TAN	NK .	
	14. ALL EQUIPMENT & FIXTUR	ES SHALL BE ENVIRONMENTAL FRIENDLY (SUCH AS WA	ATER EFFICIENT FIXTURE	ES)			L		~	11.500 SAN KANANA	377, C	
	15. WATERLINE						1			WATER STORA	OF TANK	
	15.1. WATERLINE SHALL BE I						I		1	WATER STORAG	GE LANK	
		PPR TYPE OR APPROVED EQUIVALENT.	2011-1011-0				1					
		BE ANY BRAND AND ACCEPTED BY THE WATER UTILITY	, 70 T. C. P. C. C. C. T. T. C.						CV	CHECK VALVE		
	16. STORM DRAIN	OSED TO WEATHER CONDITIONS HALL BE MADE OF G.I.					I	_				
		SLOPE SHALL BE WITHIN 0.5% TO 4%.					1		WM	WATER METER	8	
		200MM/0 AND BLOW SHALL BE PVC, 250MM/0 & ABOVE	SHALL BE REINFORCED	CONCRETE	PIPE.				11.002		×	
	17. SEWERLINE									1.000		
	17.1. ALL SLOPES FOR SANIT	ARY SHALL CONFORM A 2% SLOPE.							GV	GATE VALVE		
	17.2. SOIL, WASTE, & VENT P	PE SHALL BE (POLYVINYL CHLORIDE) PVC OR THE APP	ROVED EQUAL				1	-				
		PROVIDED FOR SANITARY VERTICAL PIPES AND EACH I NGE IN DIRECTION AND EVERY 30M OF A STRAIGHT PIP			지하는 1916년 1월 2017년 2월 2017년 1월 2017년 1월 2017년 2월 2017년 2				AM	MILLIMETER		
	17.4. ALL DRAINAGE FIXTURE	SHALL BE SUPPLIED WITH APPROPRIATE VENTILATION	N						÷		2	
	18. FIXTURES								y	TAPPING POINT	2	
	EXTENDED REAR SELF.	L BE FREE STANDING TOLET COMBINATION, ROUND FR AND CLOSE COUPLED TANK WITH COVER COMPLETE W	ITH FITTING AND MOUNT	TING ACCES	SORIES AND WATER EFFICIENT.					WATERLINE		
	STAINLESS STEEL LEVE	TREOUS CHINA, WALL HUNG WITH REAR OVERFLOW, PO R TYPE HEAVY DUTY FAUCET, SUPPLY PIPES, P-TRAP A OUS CHINA, WALL HUNG WASH-OUT URINAL WITH EXTI	AND MOUNTING ACCESS	ORIES.								
	HANGER POCKETS, 19M	IM TOP SPUD COMPLETE FITTING AND MOUNTING ACCE	SSORIES, INCLUDING UP	RINAL PARTI	ITION.							
	MOUNTING FLANGE.	ROVIDED ON ALL PWD TOILET AND SHALL BE MADE OF										
	18.5. FLOOR DRAINS SHALL B EXPANDED METAL LATH	E MADE OF STAINLESS BEEHIVE TYPE, MEASURING 100 I TYPE.	IMM X 100MM AND PROVI	IDED WITH D	DETACHABLE STAINLESS STRAINER,							
	18.6. TOILET PAPER HOLDER	SHALL BE VITREOUS CHINA WALL MOUNTED. COLOR SI	HALL RECONCILE WITH T	THE ADJACE	NT FIXTURE AND FACING TILES.							
	18.7. SOAP HOLDER SHALL B	E VITREOUS CHINA WALL MOUNTED. COLOR SHALL REC	XONCILE WITH THE ADJW	CENT FIXTU	IRE AND FACING TILES.		1					
		E OF STAINLESS STEEL LEVER TYPE HEAVY DUTY FOR I	NTERIOR USE									
		ADE OF STAINLESS STEEL LEVER TYPE HEAVY DUTY.										
	18.10. KITCHEN SINK FAUCET	SHALL BE MADE OF STAINLESS STEEL LEVER TYPE HEA	WY DUTY GODSE NECK	TABE MUH	COMPLETE ACCESSORIES.							
1	GENERAL NOTES						2	LEGEN	D AND S	YMBOLS	1	SCALE: 400 METERS
1	2	PROJECT TITLE	DATE	1.1	SUBMITTED BY:	RECOMMENDIN	IG APPRO	IVAL	APPROVED BY:		SHEET CONTENT:	SHEET NO.
Ć	Republika ng Pilipinas Lungsod ng Oasson DEPARTMENT OF ENGINEERING Cristinan Congression (2016) Cristinan (Crastina) (2016) Cristinan (Cristina) Cristinan (Cristina) Cristinan (Cristina) Cristinan (Cristina) Cristinan (Cristina) Cristinan (Cristina) Cristinan (Cristina)	PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL IN BARANGAY PASONG TAMO	AR	DAMA N BY: DEXT	. Aun		A		Þ		GENERAL NOTES	PL-1
~~~~		LOCATION: BARANGAY PASONG TAND, DISTRICT -6; QUEZON CITY	REVISION ND.:		ENGR. FREDISWING & DESIGN DIVISIONS	ATTY. MARK D	ALE O	MOND P. PERRAL	HON. MA. JOSEF	INA G. BELMONTE	SYMBOLS	1229

DED	2023	0351
8-11	D No.	D5-2023-0059

÷	BOOSTER PUMP
ò	PRESSURE TANK
÷	WATER STORAGE TANK
	CHECK VALVE
	WATER METER
	GATE VALVE
	MILLIMETER
-	TAPPING POINT
-	WATERLINE

DESIGNATION	LOCATION	QUANTITY	DESCRIPTION	REMARKS
	AS SHOWN ON PLAN	8.0	BOOSTER PUMP, HORIZONTAL END SUCTION CENTRIFUGAL, CAST IRON, CONSTRUCTION, STAINLESS STEEL SHAFT MECHANICAL SEAL HARD PLASTIC IMPELLER, WITH A CAPACITY OF 80 GALLONS PER MINUTE AGAINST 100 FT. TOTAL DYNAMIG HEAD, CLOSE - COUPLED TO A 2.0 HP, 220V, 10, 60HZ, HIGH EFFICIENT MOTOR AUTOMATIC AND ALTERNATIVE ELECTRIC OPERATION.	CONTRACTOR SUPPLI AND INSTALL REFER T STRUCTURAL PLANS FO DETAILED MOUNTING
	AS SHOWN ON PLAN	4.0	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 證 PSI CUT IN / OUT OFF PRESSURE SETTING WITH A MOTOR FOR AUTOMATIC AND ALTERNATE OPERATION.	CONTRACTOR SUPPLY AND INSTALL REFER TV STRUCTURAL PLANS FO DETAILED MOUNTING
	AS SHOWN ON PLAN	4.0	WATER STORAGE TANK, STAINLESS STEEL CONSTRUCTION, [* THICK WITH CAPACITY OF 800 GALLONS, COMPLETE WITH INLET PORT, OUTLET PORT, VENT MANHOLE, DRAIN PORT AND LADDER RUNG HORIZONTAL INSTALLED.	CONTRACTOR SUPPLY AND INSTALL REFER TO STRUCTURAL PLANS FO DETAILED MOUNTING.

EQUIPMENT DESCRIPTION 1

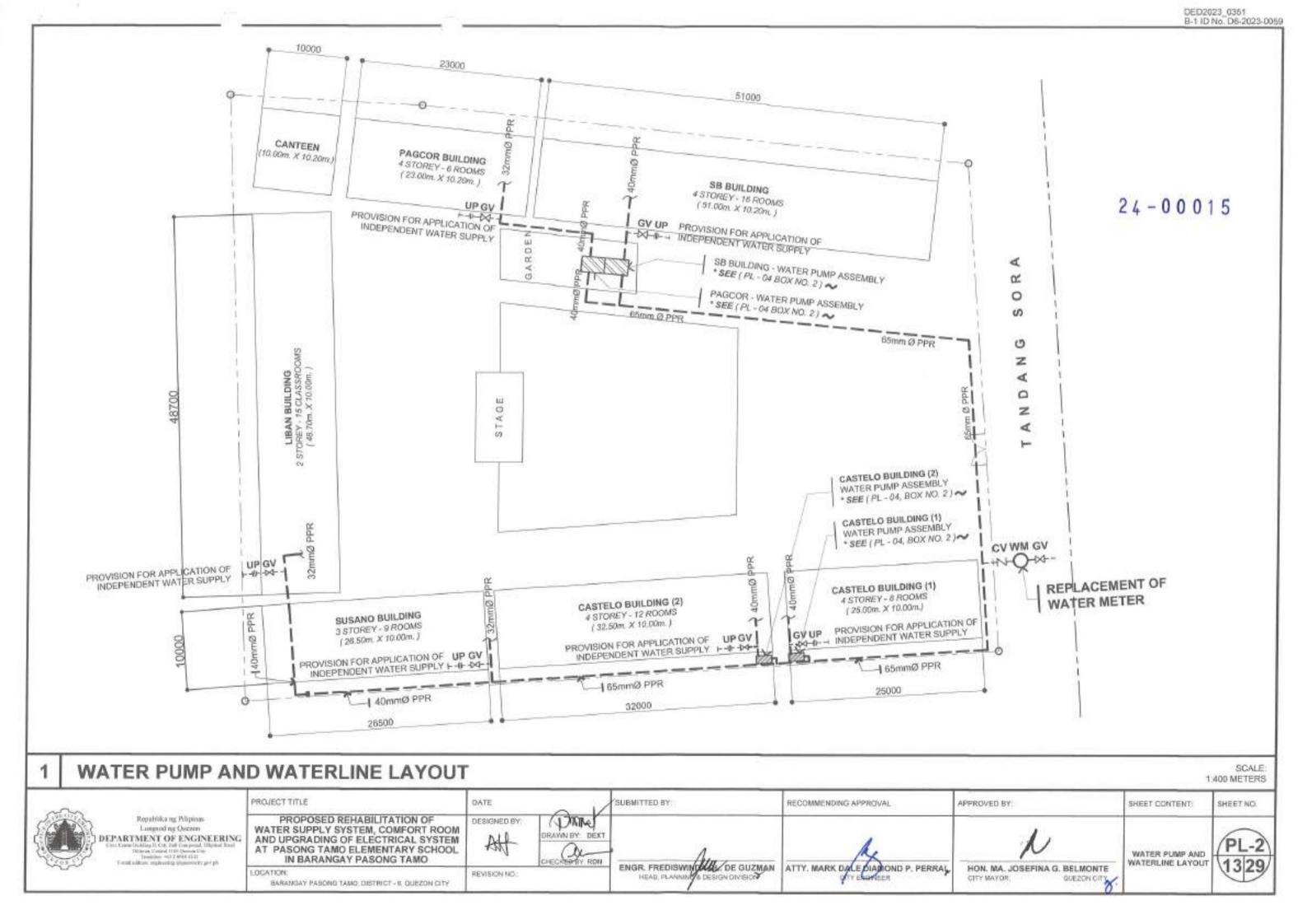


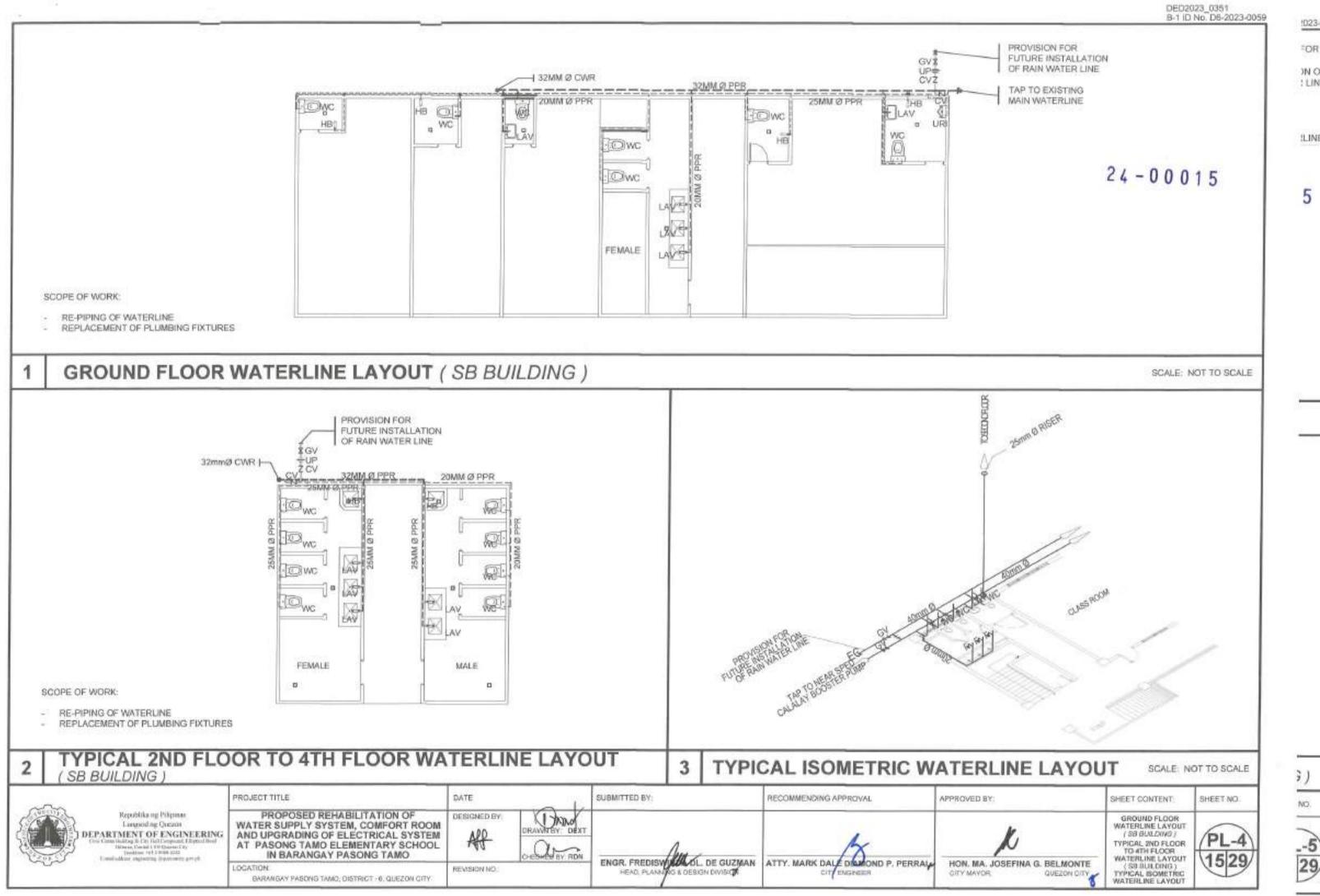
2 WATER PUMP ASSEMBLY / DIAGRAM

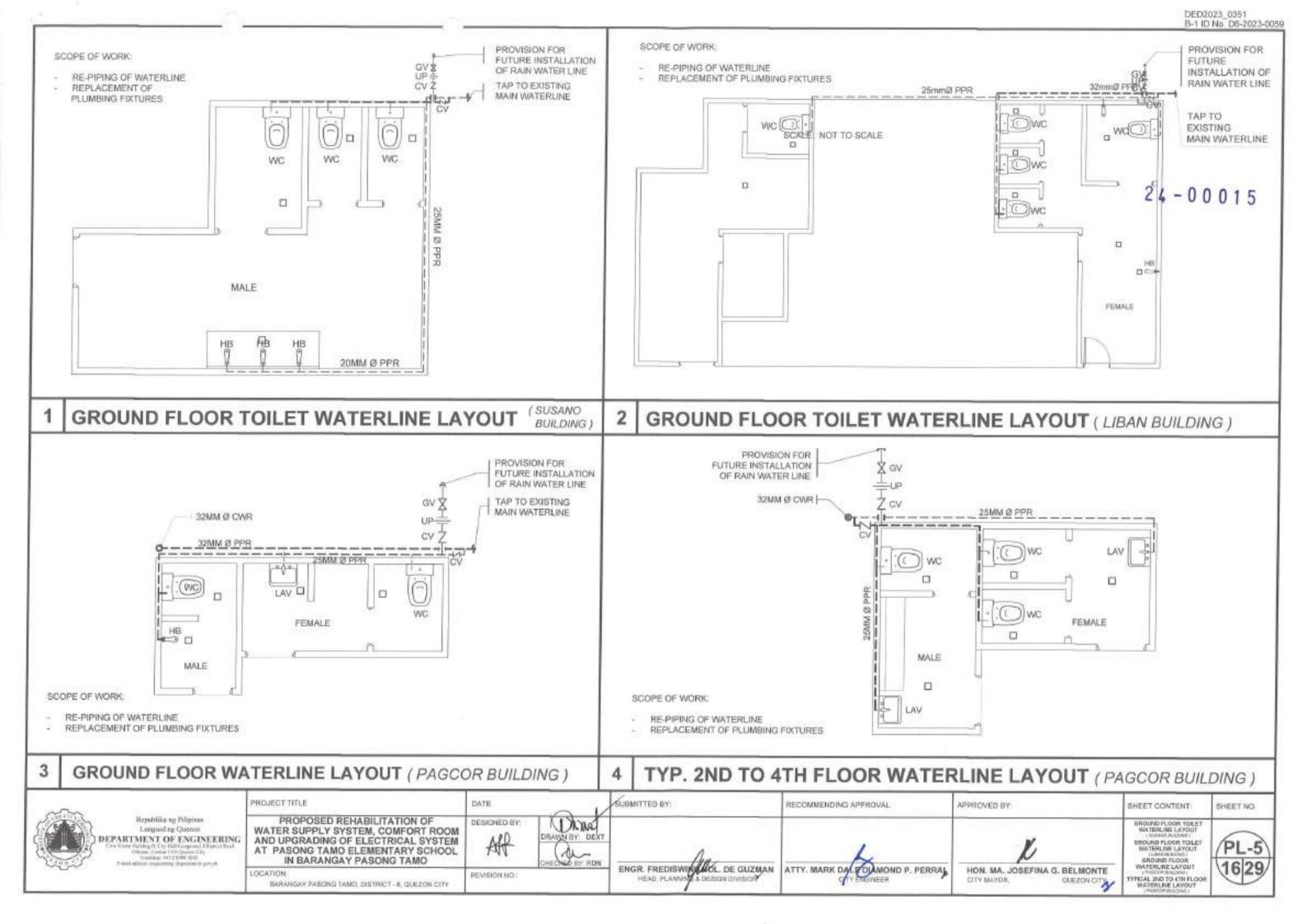
-m	PROJECT TITLE	DATE	0	SUBMITTED BY	RECOMMENDING APPROVAL	APPROVED BY:
Republika ng Pélipinas Lungsod ng Quezon DEPARTMENT OF ENGINEERING On Dore futilise (C.o.: Influence frame influence Constant (Influence frame) Teallise - Constant (Influence frame) Teallise - Constant (Influence frame) Teallise - Constant (Influence frame)	PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL IN BARANGAY PASONG TAMO	DESIGNED BY:		Aur	ATTY, MARK DAVE DAMOND P. PERRAL	K
an Hadde in the state of the state of the	LOCATION BARANGAY PASONS TAMO, DISTRECT - B. QUEZON CITY	REVISION NO.		HEAD, PLANNING DESIGN DIVISION	ATTY, MARK DAVE DAMOND P. PERRAL	HON, MA, JOSEFINA G, BELMONTE CITY MAYOR QUEZON CITY

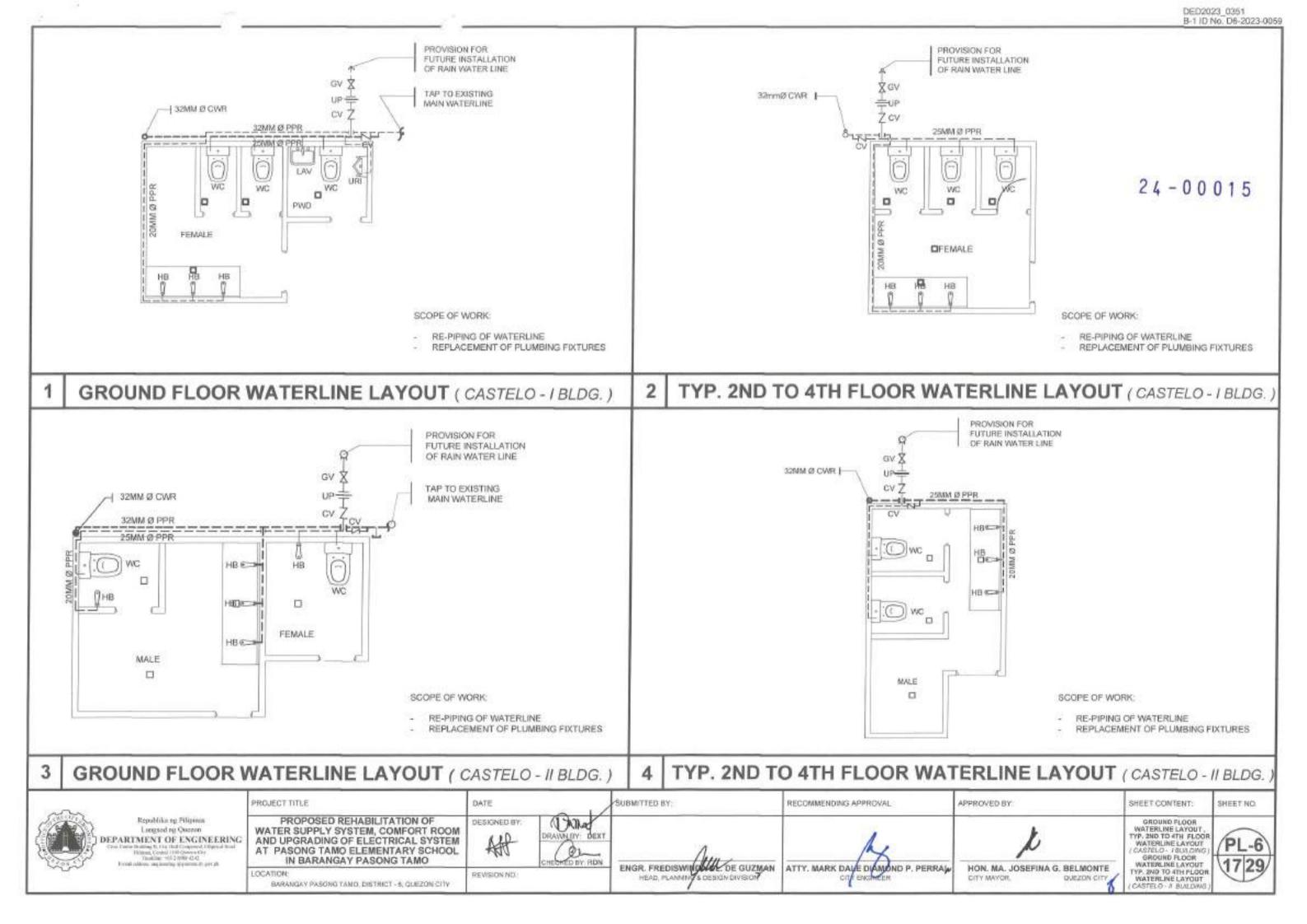
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B-1	ID No.	D8-2023	0059

s		
PPLY ER TO S FOR TING.	24-00()15
PPLY IR TO S FOR ING.		
PPLY R TO S FOR ING		
	SCALE	NOT TO SCALE
RUN AND TAP TO EXISTING MAIN WATERLINE		
	SCALE: 1	NOT TO SCALE
YED BY:	SHEET CONTENT:	SHEET NO.
NA. JOSEFINA G. BELMONTE	EQUIPMENT DESCRIPTION, WATER PUMP ASSEMBLY/ DIAGRA	PL-3 1429





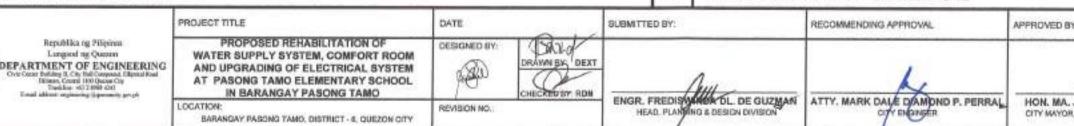


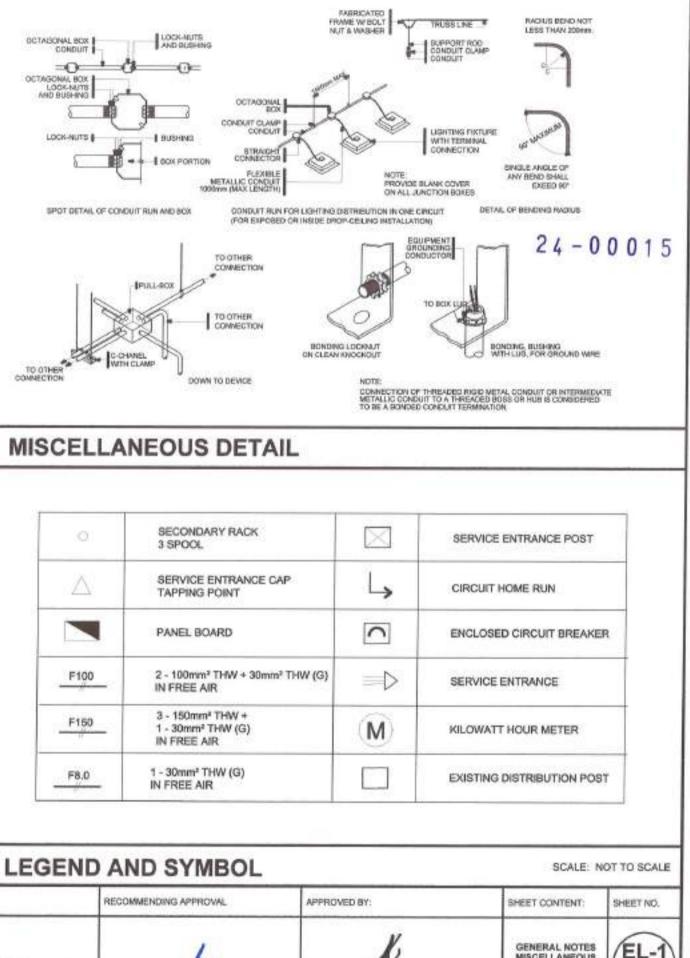


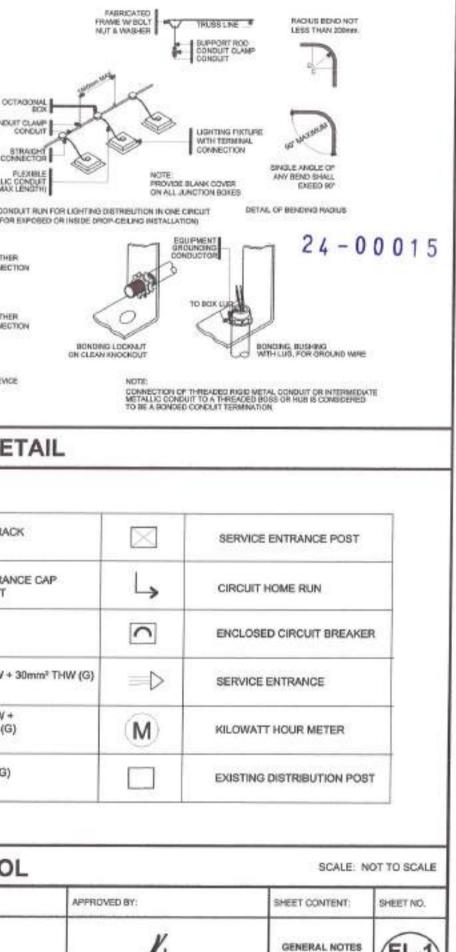
GENERAL NOTES FOR THREE-PHASE SYSTEM

- 1. ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE. THE NATIONAL BUILDING CODE OF THE PHUPPINES 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 EXECUTION.
- 7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
- 8. ALL WORKS SHALL RETESTED 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 THREE-PHASE. THREE-WIRE PLUS GROUND 40 HERTZ, 240V AC NOMINAL
 - 14.2. THE BERVICE ENTRANCE EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
 - 14.3. THE MAIN OVER CURRENT PROTECTION DEVICE SHALL BE OF THERMAL MAGNETIC MCCB IN NEMA 3R WEATHERPROOF ENCLOSURE. PHASE A - RED
 - PHASE 8 YELLOW
 - PHASE C + BLUE
 - NEUTRAL WHITE
 - GROUND + GREEN
 - 14.4. ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE INC SUPPORTED BY CONDUIT CLAMPS EVERY 700 MILLIMETERS AND/OR CONDUIT HANGER SUPPORTS EVERY 1500 MILLIMETERS
 - 14.5. 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**
 - 14.6. THE GROUND RESISTANCE SHALL NOT BE MORE THAN 5 OHMS.
- 14.7. PULL BOXES SHALL BE WHENEVER NECESSARY TO FACILITATE WRE PULLING EVEN IF THESE ARE NOT INDICATED ON PLANS.
- 14.8. FOR EACH SPARE BRANCH CIRCUIT IN PANELBOARD, PROVIDE ONE 20MM DIAMETER EMPTY CONDUIT TERMINATED TO 100MM OCTAGONA; BOX ABOVE CEILING. MINIMUM SIZE OF PULLBOX SHALL BE 150MM X150MM X 100MM.
- 14.9. 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.
- 15.5. 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 DESIGNATION.
- 15.1. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE DEST QUALITY, BRAND NEW AS SPECIFIED. IT MUST BE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE INTENDED.

GENERAL NOTES 1



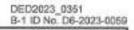




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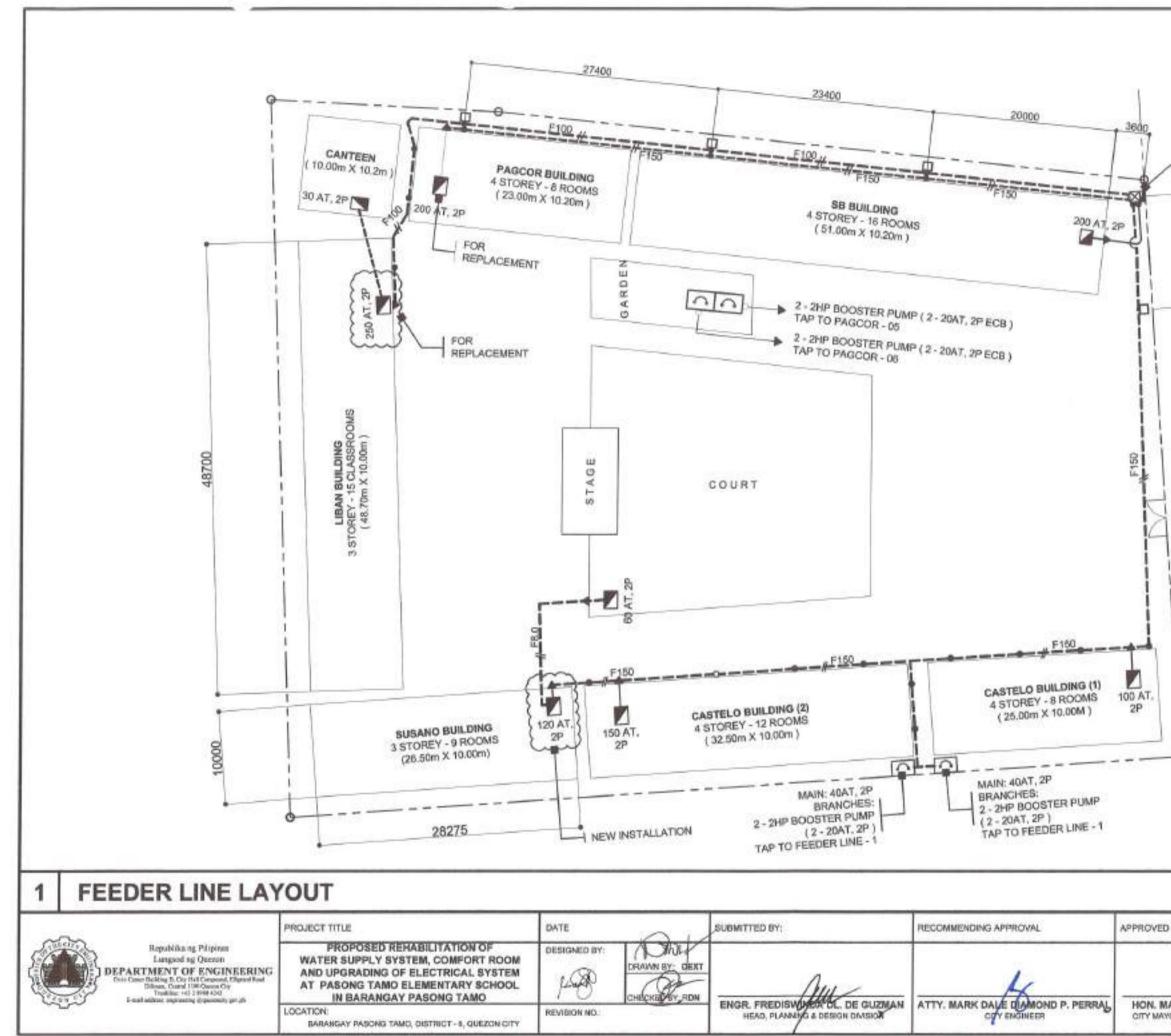
SECONDARY RACK 3 SPOOL	
SERVICE ENTRANCE CAP TAPPING POINT	
PANEL BOARD	
2 - 100mm ² THW + 30mm ² THW (G) IN FREE AIR	
3 - 150mm ^a THW + 1 - 30mm ^a THW (G) IN FREE AIR	(
1 - 30mm ^a THW (G) IN FREE AIR	
	3 SPOOL SERVICE ENTRANCE CAP TAPPING POINT PANEL BOARD 2 - 100mm ³ THW + 30mm ² THW (G) IN FREE AIR 3 - 150mm ² THW + 1 - 30mm ² THW (G) IN FREE AIR 1 - 30mm ² THW (G)

3

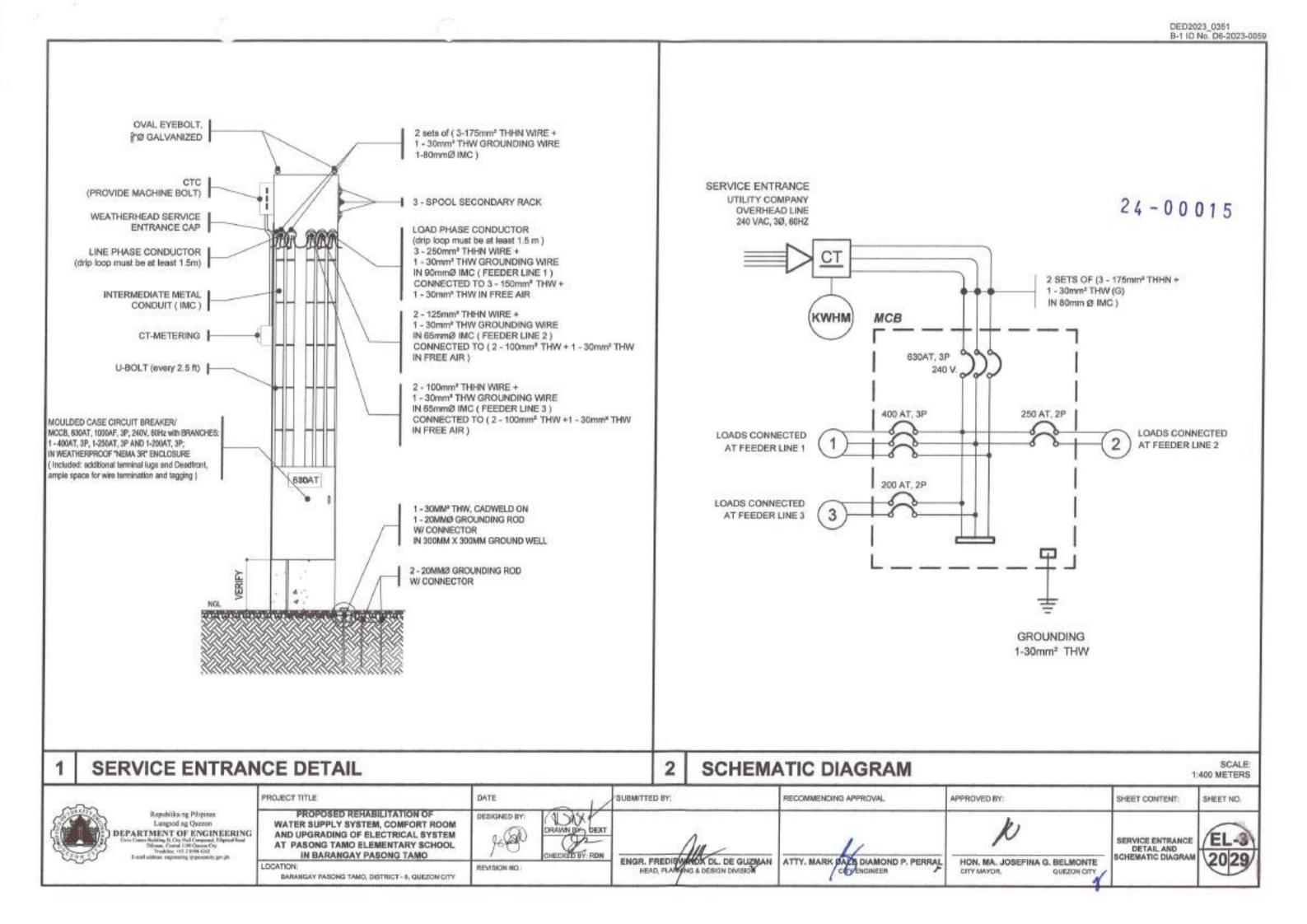


MISCELLANEOUS DETAIL, LEGEND HON. MA. JOSEFINA G. BELMONTE AND SYMBOLS QUEZON OTY

18 29



	8-1 iD	023_0351 No. D6-2023-0
1 - 20	10 AT, 2P 10 AT, 2P 5MA 3R ENCLOSURE	
	24-00	015
R A		
DANG SO		
TAN		
Ì		
		SCALE:
<i>V</i> .	SHEET CONTENT:	SHEET NO.
0	FEEDER LINE	/EL-Z



								EXISTIN 00 AF, 240 V,	AT, 1	2									, 2P	F (EXIST , 100 AF IC, 240 V	60 A	PANEL MAIN
SIZE OF WIRE	CIRCUIT BREAKER	VOLT AMPERE	3Ø	CA BC		AB	OTHER LOAD SERVICE	CO	S		RE	SIZE OF W	CIRCUIT	VOLT AMPERE	- 30	E LOAD				OUTLET	VOLTS	
2 - 5.5mm² THHN 1-3.5mm² THW (G IN 20mm@ PVC	30 AT, 2P, BOLT - ON	2,640.00				12.00	EXISTING LOAD			2	/(G)	2 - 3.5mm* TH 1-2.0mm* TH IN 20mmØ F	20 AT, 2P, BOLT - ON	1,080.00			1		EXISTING LOAD		220	1
2 - 3.5mm* THHN 1-2.0mm* THW (G IN 20mm/2 PVC	15 AT, 2P, BOLT - ON	600.00			73	2.73	EXISTING LOAD			2	/(G)	2 - 3.5mm ² TH 1-2.0mm ³ TH IN 20mm@ F	15 AT, 2P, BOLT - ON	600.00			3		EXISTING LOAD		220	2
2 - 3.5mm* THHN 1-2.0mm* THW (G IN 20mmØ PVC	15 AT, 2P, BOLT - ON	600.00		1	73	2.73	EXISTING LOAD			2	(G)	2 - 3.5mm² TH 1-2.0mm² TH IN 20mm@ F	15 AT, 2P, BOLT - ON	600.00			3		EXISTING LOAD		220	3
2 - 3.5mm* THHN 1-2.0mm* THW (G IN 20mmØ PVC	15 AT, 2P, BOLT - ON	600.00			73	2.73	EXISTING LOAD			2	(G)	2 - 3.5mm* TH 1-2.0mm* TH IN 20mm@ P	15 AT, 2P, BOLT - ON	600.00			3	ING 2.73	EXISTING LOAD		220	4
2 - 3.5mm ^a THHN 1-2.0mm ^a THW (G IN 20mmØ PVC	15 AT, 2P, BOLT - ON	600.00			73	2.73	EXISTING LOAD			2	(G)	2 - 3.5mm* TH 1-2.0mm* THV IN 20mm@ P	15 AT, 2P, BOLT - ON	600.00			3		EXISTING LOAD		220	5
2 - 3.5mm* THHN 1-2.0mm* THW (G IN 20mmØ PVC	15 AT, 2P, BOLT - ON	600.00			73	2.73	EXISTING LOAD			2	(G)	2 - 3.5mm² TH 1-2.0mm² THV IN 20mmØ P	15 AT, 2P, BOLT - ON	600.00			3		EXISTING LOAD		220	6
2 - 3.5mm* THHN 1-2.0mm* THW (G IN 20mmØ PVC	15 AT, 2P, BOLT - ON	1,080.00			91	4.91	EXISTING LOAD			2	(G)	2 - 3.5mm* TH 1-2.0mm* THV IN 20mmØ P	15 AT, 2P, BOLT - ON	1,080.00			1		EXISTING LOAD		220	7
2 - 3.5mm² THHN 1-2.0mm² THW (G IN 20mmØ PVC	20 AT, 2P, BOLT - ON	1,080.00			91	4.91	EXISTING LOAD			2	(G)	2 - 3.5mm* TH 1-2.0mm* THV IN 20mmØ P	20 AT, 2P, BOLT - ON	1,080.00			1		EXISTING LOAD		220	8
2 - 3.5mm* THHN 1-2.0mm* THW (G IN 20mmØ PVC	20 AT, 2P, BOLT - ON	1,080.00			91	4.91	EXISTING LOAD			2	(G)	2 - 5.5mm* TH 1-3.5mm* THV IN 20mm@ P	30 AT, 2P, BOLT - ON	2,640.00			0		EXISTING LOAD		220	9
		8,880.00			36	40.36	2	TAL	0					8,880.00			8	40.36	L	ОТА	т	
				THW (G) IN		1 - B.Or	i.0 mm² THHN + 1		USE	FEEDE									4.0 mm ^s THHN	USE: 2 - 1		
G) NOT TO S	EXISTIN	DOR (FL(3 2ND	: SE	DS:	OF LOAD	LEC	DUI	СН		XISTIN	OOR (E	ND FL	OU	- GR	2.2	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		ULE (HED	SC
	SHEET OC		W5	APPROVED B			INCING APPROVAL	RECOMME	F		SUBMITTED BY:	1213	DATE				E	PROJECT TITL	PR			121

NUMBER	NOL TS	loutu	T OTHER L	DAD	MPERE	LOAD	30	VOLT AMPERE	CIRCUIT	SIZE OF WIRE	PANEL	: 200	AT, 2	50 AI	STING) F, 2P /, MCCB		
1	220		FEEDER L		00 154.9	-		80,400.00	400AT.3P. BOLT ON	3-250mm ² THHN + 1-30mm ² THW (G) IN 90mmØ IMC	CIRCUIT			CO	OTHER LOAD SERVICE	A	MPE
2	220		FEEDER L		116.9			25,720.00	250AT 2P. BOLT ON	90mmØ IMC 2-126mm² THHN + 1-30mm² THW (G) IN 65mmØ IMC	1	220			SB GROUND FLOOR	40.38	
3	220		FEEDER L	NE 3 172.	8	1		37,880.00	200AT 2P. BOLT ON	2-100mm ² THHN + 1-30mm ² THW (G) IN 65mm/2 IMC	2	220			SB SECOND FLOOR	40.36	T
	т	от	A L	298.	8 271.8	2 210.	55 0.00	106,120.00		SOTI THE INTO	3	220			SB THIRD FLOOR	28.36	T
1=(2	98.18 * 1	.732) =		516.45 A	MPERE	s	_				4	220			SB FOURTH	28.36	F
10000000			LINE: USE:	SETS OF	3 - 175n	om ^e TH	HN + 1 -	30.0mmª TH	W(G) IN 80mm	Ø IMC)	5	220			EXISTING	34.73	-
			3 - 150mm² T 2 - 100mm² T								6	220			SPACE	-	-
			2 - 100mm ⁹ T										0 1	r A	L	172.18	-
PANEL: MAIN :	400 A 85 KA	C 70 C 10 C 10 C 1	AF, 3P V, MCCB		AMPER	ELOA	σ	VOLT	CIRCUIT		FE	EDER L		: 2 - 1	00.0 mm ^a THHN 2 - 100mm ^a THV		
UMBER	VOLTS		CO SERV			_	CA 31	AMPERE		SIZE OF WIRE			-				
1	220		PAGO		6.00			27,720.00	200 AT, 2P, BOLT - ON	2 - 100mm² THHN + 1 - 30mm² THW (G) IN 65mm/2 PVC	PANEL: MAIN	60 A	EXIST T, 10	0 AF,			
2	220		SUS/ BUILD			89	9.82	19,760.00	120 AT, 2P, BOLT - ON	2 - 38mm* THHN + 1 - 8.0mm* THW (G) IN 40mmØ PVC	CIRCUIT	VOL TR	_		OTHER LOAD	A	IPER
3	220		CASTE			96	3.73	21,280.00	100 AT, 2P, BOLT - ON	2 - 30.0mm ^e THHN + 1 - 8.0mm ^e THW (G) IN 40mmØ PVC	NUMBER		LO		SERVICE EXISTING	AB	C
	220		2 - 2HP B PU (CAST	(P		24	4.00	5,280.00	40 AT. 2P. BOLT - ON	2 - 8.0mm² THHN + 1 - 5.6mm² THW (G) IN 25mmØ PVC	1	220		_	LOAD	10.00	_
4			CASTE		130	.91		28,800.00	150 AT, 2P, BOLT - ON	2 - 38.0mm* THHN + 1 - 14.0mm* THW (G) IN 40mm@ PVC	2	220		_	LOAD	10.00	-
4	220			A 10 10 10 10 10 10				5,280.00	40 AT. 2P. BOLT - ON	2 - 8.0mm* THHN + 1 - 5.5mm* THW (G) IN 25mmØ PVC	3	220			EXISTING	8.18	-
	220 220	1	2 - 2HP B PUI (CAST)	1P	24	00		alerer an	DULI - UN	IN 25mmØ PVC							
5	220	о т	(CASTI	IP LO 2)	-		0.55 0.0	0 80,400.00		IN 25mmØ PVC	4	220			LOAD	6.55	1
5 6 T = (2	220	732) =	(CASTI	1P LO 2) 12	-	91 210	0.55 0.0			IN 25mmØ PVC	IT =	т	о т	AI	L	6.55 34.73 7.23 AM	IPE
5 6 T = (2	220 T 10.55 * 1 ER LINE	732) =	(CASTI	12 364.67 + 1-30mm ²	5.00 154 AMPER	.91 210 RES	mmØ IM	0 80,400.00		IN 25mmØ PVC	IT =	т	NE :		L	34.73 7.23 AM	
5 6 T = (2 FEED	220 T 10.55 * 1. ER LINE	732) = : :SE: 3-2	PUI (CASTI A L 50mm ² THHN 3 - 150mm ² T	12 364.67 + 1-30mm ² HW + 1 - 3	5.00 154 AMPER THW (G).0mm ²	.91 210 RES) IN 90 THW (0	mmØ IM 3), IN FF	0 80,400.00	TED TO	ER LINE -1	IT = FE	T EDER LI	NE : USE	2 - 14	L3	34.73 7 .23 AM 1 - 8.0m	1m² 1
5 6 T = (2 FEED	220 T 10.55 * 1. ER LINE	732) = : :SE: 3-2	PUI (CASTI A L 50mm ² THHN 3 - 150mm ² T	12 364.67 + 1-30mm ² HW + 1 - 3	5.00 154 AMPER THW (G 0.0mm ² MDF	.91 210 RES) IN 90 THW (0	mmØ IM 3), IN FF	0 80,400.00	TED TO		іт = FE 2 SC	T EDER LI	NE : USE	2 - 14 E C	L 3 4.0 mm² THHN +	34.73 7 .23 AM 1 - 8.0m	nms ,

ADS: SB	(EXISTING)			
VAL.	APPROVED BY:	SHEET CONTENT:	SHEET NO.	
	N	SCHEDULE OF LOADS: MDP (NEW) SCHEDULE OF LOADS: FEEDER UNE -1 SCHEDULE OF LOADS:	EL-4	
MOND P. PERRAL	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, GUEZON CITY	SB MAN (EXISTING) SCHEDULE OF LOADS: SB (EXISTING)	2129	

IN + 1 - 8.0mm2 THW (G) IN 32mm Ø PVC

AN	IPERE I	LOAD	20	VOLT	CIRCUIT			
AB	CA	BC	3Ø	AMPERE	BREAKER	SIZE OF WIRE		
10.00				2,200.00	30 AT, 2P, BOLT - ON	2 - 5.5mm² THHN + 1-3.5mm² THW (G) IN 20mmØ PVC		
10.00				2,280.00	30 AT, 2P, BOLT - ON	2 - 5.5mm* THHN + 1-3.5mm* THW (G) IN 20mm@ PVC		
8.18				1,800.00	30 AT, 2P, BOLT - ON	2 - 5.5mm* THHN + 1-3.5mm* THW (G) IN 20mmØ PVC		
6.55				1,440.00	30 AT, 2P, BOLT - ON	2 - 5.5mm² THHN + 1-3.5mm² THW (G) IN 20mm2 PVC		
34.73				7,640.00				

HN + 1 - 30.0mm^a THW (G) IN 66mm Ø PVC CONNECTED TO THW + 1 - 30mm^a THW IN FREE AIR (FEEDER LINE 3)

37.23 AMPERES

175.18 AMPERES

AM	PEREI	LOAD	3Ø	VOLT CIRCUIT		SIZE OF WIDE		
AB	CA	BC	30	AMPERE	BREAKER	SIZE OF WIRE		
40.38				8,880.00	100 AT, 2P, BOLT - ON	2 - 30.0mm² THHN + 1-8.0mm² THW (G) IN 40mmØ PVC		
40.36				8,880.00	100 AT, 2P, BOLT - ON	2 - 30.0mm* THHN 4 1-8.0mm* THW (G) IN 40mmØ PVC		
28.36				6,240.00	400 AT 20 2-30.0mm* THH			
28.36				6,240.00	100 AT, 2P, BOLT - ON	2 - 30.0mm* THHN * 1-8.0mm* THW (G) IN 40mmØ PVC		
34.73				7,640.00	60 AT, 2P, BOLT - ON	2 - 30.0mm² THHN + 1-8.0mm² THW (G) IN 40mmØ PVC		
172.18				37,880.00				

24-00015

											MAIN		-	240 V	/, МССВ	1 / 27		1.0.1
											CIRCUIT	VOLTS	LO	CO	OTHER LOAD SERVICE	AN	CA	BC
											1	220			PAGCOR GF	32.18		
											2	220			PAGCOR 2F	15.27		
											3	220			PAGCOR 3F	15.27		
PANEL: MAIN ;	60 A	T, 100 A		. TO SB	4F						4	220			2 - 2HP	15.27		
		OUTLE	V, MCCB		IPERE	LOAD		VOLT	CIRCUIT		5	220		_	BOOSTER PUMP (PAGCOR) 2 - 2HP	24.00	-	
UMBER	VOLTS	LOC		AB	CA	BC	310	AMPERE	BREAKER	SIZE OF WIRE	6	220			BOOSTER PUMP (SB)	24.00		
1	220		EXISTING LOAD	2.73				600.00	30 AT, 2P, BOLT - ON	2 - 5.5mm* THHN + 1-3.5mm* THW (G) IN 20mmØ PVC		т	от	A		126.00		
2	220		EXISTING LOAD	2.73				600.00	15 AT, 2P, BOLT - ON	2 - 3.5mm ^a THHN + 1-2.0mm ^a THW (G) IN 20mm@ PVC	IT =	EDER L	INE		1	32.00 A	MPERE	ES
3	220		EXISTING LOAD	2.73				600.00	15 AT, 2P, BOLT - ON	2 - 3.5mm ⁴ THHN + 1-2.0mm ² THW (G) IN 20mm/2 PVC		EDER L		2 - 1	00.0 mm² THHN ·	+ 1 - 30.	lmm² Ti	HW (G
.4	220		EXISTING LOAD	2.73				600.00	15 AT, 2P, BOLT - ON	2 - 3.5mm ² THHN + 1-2.0mm ² THW (G) IN 20mmØ PVC	PANEL:	PAG	COR	GF (E	EXISTING)			
5	220		EXISTING LOAD	2.73				600.00	15 AT, 2P, BOLT - ON	2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mm/2 PVC	MAIN :		T, 100 AIC, 24		2P MCCB			
6	220		EXISTING LOAD	4.91				1,080.00	15 AT, 2P, BOLT - ON	2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mm@ PVC	CIRCUIT	VOLTS			OTHER LOAD SERVICE	AM	CA	LOAD
7	220		EXISTING LOAD	4.91				1,080.00	20 AT, 2P, BOLT - ON	2 - 3.5mm ³ THHN + 1-2.0mm ³ THW (G) IN 20mmØ PVC	1	220			EXISTING LOAD	2.73		
8	220		EXISTING LOAD	4.91				1,080.00	20 AT, 2P, BOLT - ON	2 - 3.5mm² THHN + 1-2.0mm² THW (G) IN 20mmØ PVC	2	220			EXISTING LOAD	2.73		
	Т	оти	. L	28.36				6,240.00			3	220			EXISTING LOAD	4.91		
IT = FEE	DER LI	NE :	MISSING REPRESENT	28.36 AA	IPERES	s					4	220			EXISTING LOAD	4.91		
01943		USE: 2	14.0 mm² THHN	+ 1 - 8.0m	um ^z THV	V (G) IN	32mn	n Ø PVC			5	220			EXISTING LOAD	12.00		
											6	220			EXISTING LOAD	4.91		
												т	от	AL	_	32.18		
											IT = FEI	EDER LI				5.18 AM		
												_	USE:	2 - 14	1.0 mm² THHN +	1 - 8.0m	n* THW	7 (G) IN
SC	HED	ULE	OF LOA	DS:	SB, S	3F (EX	ISTIN	G) TYPI	ICAL TO 4F	2 SC	HED	UL	EC		S:		SCOF
~~~	50	38-8-	PR	DIECT TITLE	-	201020			DATE	SUBMIT	TED BY:		RÉC	COMME	ENDING APPROVAL		APP	PROVED
1 4 411A.		epublika ng P			OSED R				DESIGNED BY:	Dama								
1997.		angoil ng Q ENT OF F	C	ATER SUI				AL SYSTEM	0	DRAWN BY: DEXT					1			

DED2023_0351 B-1 ID No. D6-2023-0059

SIZE OF WIRE	CIRCUIT	VOLT AMPERE	3Ø	AD BC
- 10/2 = 55 . 1053.15	DREAREN	AMP LINE		
2 - 14.0mm* THHN + 1-8.0mm* THW (G) IN 32mmØ PVC	60 AT, 2P, BOLT - ON	7,080.00		
2 - 14.0mm ³ THHN + 1-8.0mm ³ THW (G) IN 32mmØ PVC	60 AT. 2P. BOLT - ON	3,360.00		
2 - 14.0mm ² THHN + 1-8.0mm ³ THW (G) IN 32mm ² PVC	60 AT, 2P, BOLT - ON	3,360.00		
2 - 14.0mm² THHN + 1-8.0mm² THW (G) IN 32mmØ PVC	60 AT, 2P, BOLT - ON	3,360.00		
2 - 8.0mm ² THHN + 1-5.5mm ² THW (G) IN 25mmØ PVC	40 AT, 2P, BOLT - ON	5,280.00		
2 - 8.0mm* THHN + 1-5.5mm* THW (G) IN 25mmØ PVC	40 AT, 2P, BOLT - ON	5,280.00		
		27,720.00		

mm² THW (G) IN 65mm Ø PVC

PERE LOAD		3Ø	VOLT	CIRCUIT	SIZE OF WIRE
CA	BC	30	AMPERE	BREAKER	SIZE OF WIRE
			600.00	20 AT, 2P, BOLT - ON	2 - 3.5mm* THHN - 1-2.0mm* THW (G) IN 20mmØ PVC
			600.00	20 AT, 2P, BOLT - ON	2 - 3.5mm² THHN 1-2.0mm² THW (G) IN 20mmØ PVC
			1,080.00	20 AT, 2P, BOLT - ON	2 - 3.5mm* THHN 4 1-2.0mm* THW (G) IN 20mmØ PVC
			1,080.00	20 AT, 2P, BOLT - ON	2 - 3.5mm* THHN - 1-2.0mm* THW (G) IN 20mmØ PVC
			2,640.00	20 AT, 2P, BOLT - ON	2 - 3.5mm ³ THHN + 1-2.0mm ⁸ THW (G) IN 20mmØ PVC
			1,080.00	20 AT, 2P, BOLT - ON	2 - 3.5mm² THHN 4 1-2.0mm² THW/ (G) IN 20mmØ PVC
			7,080.00		
THW		32ma	ØPVC		
C.11710	(G) 114	32000	10 PVC		

AGCOR GROUND FLOOR (EXISTING)

APPROVED BY:

SHEET CONTENT
SHEET ND,

SCHEDULE OF LOADS:
SB 3F (EXISTING)
TYPICAL TO 4P
SCHEDULE OF LOADS:
DAPCOR GROUND FLOOR
CITY MAYOR,
OUEZON CITY

PANEL MAIN	: 60 A	T, 10	0 AF,	EXISTING) , 2P , MCCB								PANEL: MAIN :	60 A	T, 100	AF,	XISTING) 2P MCCB			
CIRCUIT	VOLTS	OU LO	CO	o man como	Al	MPERE CA	LOAD	- 3Ø	VOLT AMPERE	CIRCUIT	SIZE OF WIRE	CIRCUIT	VOLTS		_	OTHER LOAD SERVICE	-	MPERE	1
1	220		0	EXISTING	2.73	6.4	DC	1	600.00	20 AT, 2P, BOLT - ON	2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mm@ PVC	1	220	10	00	EXISTING	4.91	CA	E
2	220			EXISTING LOAD	2.73				600.00	20 AT, 2P, BOLT - ON	2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mm@ PVC	2	220			EXISTING LOAD	2.73		
3	220			EXISTING LOAD	4.91				1,080.00	20 AT, 2P, BOLT - ON	2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mm/2 PVC	3	220			EXISTING LOAD	2.73		
4	220			EXISTING LOAD	4.91				1,080.00	30 AT, 2P, BOLT - ON	2 - 5.5mm² THHN + 1-3.5mm² THW (G) IN 20mmØ PVC	4	220			EXISTING LOAD	4.91		
	π	0	ΤА	L	15.27				3,360.00				т	от	A L	-	15.27		1
PANEL:				XISTING)								2 SC	HE	DUL	ΕC	DF LOAI	DS:	PAG	C
MAIN :		NC, 2	40 V,	MCCB								PANEL:				STING)			2
UMBER	VOLTS	LO	CO	OTHER LOAD SERVICE	AN	CA	BC	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE	MAIN :		T, 100 NC, 24	1. 1. C.				
1	220			EXISTING LOAD	2.73				600.00	20 AT, 2P, BOLT - ON	2 - 5.5mm² THHN + 1-3.5mm² THW (G) IN 20mmØ PVC	CIRCUIT	VOLTS	OUTL	ET (	OTHER LOAD SERVICE		CA	
2	220			EXISTING LOAD	2.73				600.00	20 AT. 2P, BOLT - ON	2 - 3.5mm² THHN + 1-2.0mm² THW (G) IN 20mm2 PVC	1	220			EXISTING LOAD	1.82		
3	220			EXISTING LOAD	4.91				1,080.00	20 AT, 2P, BOLT - ON	2 - 5.5mm* THHN + 1-3.5mm* THW (G) IN 20mm/2 PVC	2	220			EXISTING LOAD	2.73		
4	220			EXISTING LOAD	4.91				1,080.00	30 AT, 2P, BOLT - ON	2 - 5.5mm* THHN + 1-3.5mm* THW (G) IN 20mm/2 PVC	3	220			EXISTING LOAD	12.00		
	т	οт	AI	E-	15.27				3,360.00				т	от	A L		18.73		
IT = FE	EDER LI		2 - 14	1! 4.0 mm² THHN + 1	5.27 AM 1 - 8.0m			32mm	ØPVC			IT = FEI	EDER LI		2 - 8.0	20 mm² THHN + 1	0.73 AM - 5.5mm		
60	HED	UL	.E (	OF LOAD	S:	PAG PAG	COR COR	2ND THII	FLOOR RD FLOO	( EXISTIN DR ( EXIST	G) TNG)	3 SC	HED	ULI	ΞO	F LOAD	<b>)S</b> : (	CAN	TE
50																		1.55	1000
 			re Pileir	1.1.1.32.1	CT TITLE	Mare P	EHABIL			DATE DESIGNED BY:	Dinat Sommer	D BY		REC	OMMÉN	IDING APPROVAL		AP)	ROVI

DED2023	0351
	D8-2023-0059

	CIRCUIT	VOLT	20	OAD.	PERE L
SIZE OF WIRE	BREAKER	AMPERE	3Ø	BC	CA
2 - 3.5mm ² THHN + 1-2.0mm ² THW (G) IN 20mmØ PVC	20 AT, 2P, BOLT - ON	1,080.00			
2 - 3.5mm ⁴ THHN + 1-2.0mm ⁴ THW (G) IN 20mmØ PVC	20 AT, 2P, BOLT - ON	600.00			
2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mmØ PVC	20 AT, 2P, BOLT - ON	600.00			
2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mm@ PVC	30 AT, 2P, BOLT - ON	1,080.00			
		3,360.00			

nm^a THW (G) IN 32mm Ø PVC

# PAGCOR 4TH FLOOR (EXISTING)

IPERE	LOAD		VOLT	CIRCUIT	
CA	BC	3Ø	AMPERE	BREAKER	SIZE OF WIRE
			400.00	20 AT, 2P, BOLT - ON	2 - 3.5mm² THHN 4 1-2.0mm² THW (G) IN 20mmØ PVC
Ĩ.			1,080.00	20 AT, 2P, BOLT - ON	2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mmØ PVC
			2,640.00	20 AT, 2P, BOLT - ON	2 - 3.5mm* THHN + 1-2.0mm* THW (G) IN 20mmØ PVC
			4,120.00		

m² THW (G) IN 32mm Ø PVC

CA	NTEEN ( EXISTING	G) NC	SCALE: TTO SCALE
	APPROVED BY:	SHEET CONTENT:	SHEET NO.
RAJe.	HON. MA. JOSEFINA G. BELMONTE	SCHEDULE OF LOADS: PAGEOR 2ND FLOOR (EXISTING) PAGEOR THMD FLOOR (EXISTING) PAGEOR 4TH FLOOR (EXISTING) SCHEDULE OF LOADS: CANTEEN (EXISTING)	EL-7 2429

											PANEL MAIN		AN GF		XISTING) 2P 50	KAIC	240V,	MCC	в		24	-00	01
											CIRCUIT	VOLTS	and statements	CO	OTHER LOAD SERVICE	AN AB	CA	-	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE O	
PANEL:	LIBA	MAIN	FOR REPLACE	MENT	1						1	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm 1-3.5mm IN 20mm	THH TW (0
MAIN :	250	T, 250 A									2	220			EXISTING LOAD	2.73				600	20 AT, 2P, BOLT - ON	2 -3.5mm 1-2.0mm IN 20mm	TWO
CIRCUIT	VOLTS	and the second spin termination	OTHER LOAD	Property and a second sec	-	LOAD	30	VOLT	CIRCUIT	SIZE OF WIRE	3	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm 1-3.5mm IN 20mm	THH TW (
IUMBER	220	LO CO	LIBAN GF 1	AB 15.27	CA	BC		3,360.00	60 AT, 2P, BOLT - ON	2 - 14.0mm² THHN + 1-8.0mm² THW (G)	4	220			EXISTING LOAD	2.73				600	20 AT, 2P, BOLT - ON	2 -3.5mm 1-2.0mm IN 20mm	
2	220		(EXISTING) LIBAN GF 2	15.27		-	-	3,360.00	60 AT, 2P,	IN 32mmØ PVC 2 - 14.0mm [#] THHN + 1-8.0mm [#] THW (G)			т	от	AL	15.27	0.00	0.00	0.00	3360			
3	 		(EXISTING)	17.45		-		3,840.00	BOLT - ON 60 AT, 2P,	IN 32mmØ PVC 2 - 14 0mm² THHN +	IT -	15.27 A	MPER	ES		-							-
4	220		(EXISTING)	15.27		-	-		BOLT - ON 60 AT, 2P,	1-8.0mm² THW (G) IN 32mmØ PVC 2 - 14.0mm² THHN +	FEED	ER LINE		2.1	4.0 mm² THHN + 1	- 8 0m	m? TH/M	//G) IN	132000	0 PVC			
	220	_	(EXISTING) LIBAN 3F 1			-	-	3,380.00	BOLT - ON 60 AT, 2P,	1-8.0mm² THW (G) IN 32mmØ PVC 2 - 14.0mm² THHN +			000	063-18	5.V 1010 113101 + 1	- 0.011	III IIIV	(G), IN	1.021111	ID FYC			
6	220		(EXISTING) LIBAN 3F 2	17.45				3,840.00	BOLT - ON 60 AT, 2P,	1-8.0mm* THW (G) IN 32mm@ PVC 2 - 14.0mm* THHN +													
6	220		(EXISTING) CANTEEN	17.45				3,840.00	BOLT - ON 30 AT, 2P,	1-8.0mm² THW (G) IN 32mmØ PVC 2 - 8.0mm² THHN +	PANEL:	LIBA	N GF	2 (EX	(ISTING)								
7	220	_	(EXISTING)	18.73				4,120.00	BOLT - ON	1-5.5mm² THW (G) IN 25mmØ PVC	MAIN :		T, 100	AF,	2P 501	_		мссв	_				
	т	ΟΤΑ	L	116.91				25,720.00			CIRCUIT	VOLTS	LO	and the local division of	OTHER LOAD SERVICE	-	CA	BC	3Ø	VOLT	BREAKER	SIZE OF	WIF
IT = FE	EDER LI			16.91 A							1	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm ² 1-3.5mm ² 1N 20mm	THHM W(C) PVC
	-	USE: 2 -	25 mm ² THHN + 2 - 100mm ² THV	1 - 30mr N + 1 - 3	n² THM Omm² 1	/ (G) IN ( 'HW IN I	80mm FREE	Ø PVC CON AIR (FEEDE	NECTED TO R LINE 2)		2	220			EXISTING LOAD	2.73				600	20 AT, 2P, BOLT - ON	2 -3.5mm² 1-2.0mm² IN 20mm²	THHP TW (C 9 PVC
											3	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm ⁴ 1-3.5mm ⁵ IN 20mm	THHN TW (S
											4	220			EXISTING LOAD	2.73				600	20 AT, 2P, BOLT - ON	2 -3.5mm ⁴ 1-2.0mm ³ IN 20mm6	1.1.6.3
													то	) Т /	A L	15.27	0.00	0.00	0.00	3360			
												15.27 AN R LINE:			.0 mm² THHN + 1 -	8.0mm	* THW	(G), IN	32mm (	Ø PVC			
											2 20	UEP		EC	OF LOADS		LIBA	N GF	ROUN	ND FLOO	DR ( EXIST	TING )	
SC	HED	ULE	OF LOAD	DS: L	IBA	N - N	1AII	I (FOR	REPLAC	CEMENT)	2 SC	HEL	UL	EU	F LOADS		LIBA	N GF	ROUN	VD FLOO	DR (EXIST DR - 2 (EX	ISTING	)
SC			PROJE	SCT TITLE		N - N			DATE	SUBMITTE		HEL	1		NDING APPROVAL		1.000	N GF		ND FLOO	SHEET O	Longers	) Shee

ROUND FLOOR ( ROUND FLOOR -	EXISTING ) 2 ( EXISTING	;)
BY:	SHEET CONTENT:	SHEET NO.
A. JOSEFINA G. BELMONTE or, CLEZON CITY	SCHEDULE OF LOADS: LIBAN - MAN (FOR REPLACEMENT) SCHEDULE OF LOADS: LIBAN GROUND FLOOR (EXISTING) UBAN GROUND FLOOR - 2 (EXISTING)	EL-8 2529

MAIN :		N 2F T, 100		KISTING) 2P 50	KAIC,	240V,	мсс	в					NEL: IN :	LIBA 60 A	
CIRCUIT	VOLTS		CO	OTHER LOAD SERVICE	AM	CA	LOAD	3Ø	VOLT AMPERE	CIRCUIT	SIZE OF WIRE	CIRC		VOLTS	F
1	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm ² THHN + 1-3.5mm ⁸ TW (G) IN 20mmØ PVC		1	220	t
2	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -6.5mm* THHN + 1-3.5mm* TW (G) IN 20mmØ PVC		2	220	Ī
3	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm ^e THHN + 1-3.5mm ^e TW (G) IN 20mmØ PVC		3	220	Γ
4	220			EXISTING LOAD	2.73				600	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mm2 PVC		1	220	
		т	от	AL	17.45	0.00	0.00	0.00	3840						
PANEL: MAIN :	LIBA 60 A1	, 100	AF,	(ISTING) 2P 501	KAIC, 2			3				PAN		LIBA 60 A1	
	VOLTS	OUT		OTHER LOAD SERVICE	AMP AB	CA	OAD	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE	CIRC		VOLTS	
1	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm² THHN + 1-3.5mm² TW (G) IN 20mm@ PVC	1		220	
											and the second design of the s				
2	220			EXISTING LOAD	2.73				600	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mm@ PVC	2		220	
2 3	220 220			EXISTING LOAD	2.73 4.91				600 1,080	20 AT, 2P, BOLT - ON 30 AT, 2P, BOLT - ON	1-2.0mm* TW (G)	2		220 220	
- 1224 					107225					BOLT - ON 30 AT. 2P.	1-2.0mm* TW (G) IN 20mm@ PVC 2 -6.5mm* THHN + 1-3.5mm* TW (G)				
3	220	тс	р т	EXISTING LOAD	4.91 2.73	0.00	0.00	0.00	1,080	30 AT, 2P, BOLT - ON 20 AT, 2P,	1-2.0mm* TW (G) IN 20mm@ PVC 2 -6.5mm* THHN + 1-3.5mm* TW (G) IN 20mm@ PVC 2 -3.5mm* THHN + 1-2.0mm* THHN +	3		220	
3 4 IT =	220 220 15.27 AM R LINE:	PERE	s	EXISTING LOAD	4.91 2.73 15.27				1,080 600 3360	30 AT, 2P, BOLT - ON 20 AT, 2P,	1-2.0mm* TW (G) IN 20mm@ PVC 2 -6.5mm* THHN + 1-3.5mm* TW (G) IN 20mm@ PVC 2 -3.5mm* THHN + 1-2.0mm* THHN +	4	IT = 1	220	
3 4 IT = FEEDE	220 220 15.27 AM R LINE:	PERE	S 2 - 14	EXISTING LOAD EXISTING LOAD A L .0 mm ² THHN + 1 -	4.91 2.73 15.27 8.0mm	* THW	(G), IN	32mm	1,080 600 3360 Ø PVC	BOLT - ON 30 AT, 2P, BOLT - ON 20 AT, 2P, BOLT - ON	1-2.0mm* TW (G) IN 20mm@ PVC 2 -6.5mm* THHN + 1-3.5mm* TW (G) IN 20mm@ PVC 2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mm@ PVC	3 4 FE	IT = 1	220 220 7.45 AM R LINE:	U
3 4 IT = FEEDE	220 220 15.27 AM R LINE:	PERE	S 2 - 14	EXISTING LOAD EXISTING LOAD	4.91 2.73 15.27 8.0mm	* THW	(G), IN	32mm	1,080 600 3360 Ø PVC	30 AT, 2P, BOLT - ON 20 AT, 2P,	1-2.0mm* TW (G) IN 20mm@ PVC 2 -6.5mm* THHN + 1-3.5mm* TW (G) IN 20mm@ PVC 2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mm@ PVC	3 4 FE 2	IT = 1	220 220 7.45 AM	U

N 3F 1 (EXISTING) T, 100 AF, 2P 50KAIC, 240V, MC OUTLET AMPERE LOA OTHER LOAD LO CO SERVICE AB CA B EXISTING LOAD 4.91 EXISTING LOAD 4.91 EXISTING LOAD 4.91 EXISTING LOAD 2.73 TOTAL 17.45 0.00 0.0

**IPERES** 

USE: 2 - 14.0 mm² THHN + 1 - 8.0mm² THW (G), IN 32mm Ø PVC

CIRCUIT	VOLTS	OUT	LET	OTHER LOAD	AM	PEREI	LOAD		VOLT	CIRCUIT	
NUMBER	VOLIS	LO	co	SERVICE	AB	CA	BC	3Ø	AMPERE	BREAKER	SIZE OF WIRE
1	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm* THHN + 1-3.5mm* TW (G) IN 20mm@ PVC
2	220			EXISTING LOAD	2.73				600	20 AT, 2P, BOLT - ON	2 -3.5mm² THHN + 1-2.0mm² TW (G) IN 20mmØ PVC
3	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm* THHN + 1-3.5mm* TW (G) IN 20mmØ PVC
4	220			EXISTING LOAD	4.91				1,080	30 AT, 2P, BOLT - ON	2 -5.5mm² THHN + 1-3.5mm² TW (G) IN 20mmØ PVC
		т	τс	AL	17.45	0.00	0.00	0.00	3840		

PERES

USE: 2 - 14.0 mm² THHN + 1 - 8.0mm² THW (G), IN 32mm Ø PVC

1	SCHEDULE OF LC	DADS: LIBAN 2ND FLOOR - LIBAN 2ND FLOOR -			2	2 SC	CHEDU			XISTING) XISTING) N	SCALE: OT TO SCALE
	Republics og Piliposes Lungsod og Qazzan DEPARTMENT OF ENGINEERING Tris Com Balagi (V.Gr. fild Geogradi, filipiad had Billiona, Carel 1018 (bases) Els Trisline: 4022 8986 (12) Ursel isktrese ogskerting Bysernelite gorge	PROJECT TITLE PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL IN BARANGAY PASONG TAMO. LOCATION: BAIRANGAY PASONG TAMO. DISTRICT - 6. GLEZON ONY	DATE DESIGNED DY: ADD REVISION NO.	DRAWN BY DEXT	ENGR. FRED	X: DISWIJAN		ATTY. MARK DAKE DIAMOND P. PERRAL	APPROVED BY:	SHEET CONTENT: SCHEDULE OF LOADS: LEAN 2ND FLOOR - 1 (ENISTING) LEAN 2ND FLOOR - 2 (EXISTING) LEAN 3RD FLOOR - 1 (EXISTING) LEAN 3RD FLOOR - 2 (EXISTING)	SHEET NO EL-9 2629

DED	320	123	035	1		
B-1	1D	No.	D6	20	23	0059

AD.	1	VOLT	CIRCUIT	1 compressions
3C	3Ø	AMPERE	BREAKER	SIZE OF WIRE
		1,080	30 AT, 2P, BOLT - ON	2 -5.5mm* THHN + 1-3.5mm* TW (G) IN 20mm2 PVC
		1,080	30 AT, 2P, BOLT - ON	2 -5.5mm* THHN + 1-3.5mm* TW (G) IN 20mmØ PVC
		1,080	30 AT, 2P, BOLT - ON	2 -5.5mm* THHN + 1-3.5mm* TW (G) IN 20mmØ PVC
		600	20 AT, 2P, BOLT - ON	2 -3.5mm² THHN + 1-2.0mm² TW (G) IN 20mmØ PVC
00	0.00	3840		

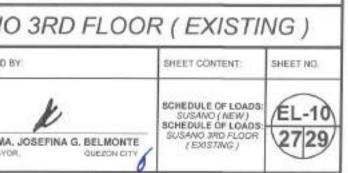
													PANEL: MAIN :		T, 100 A		50KAIC,	9010207	0.002
PANEL	SUS	ANO	MAIN	I (NEW)		_							UMBER	VOLTS	LO C		AM	CA	BC
MAIN :	120 /	17, 20	00 AF	; 2P 8:			, MCC	В					1	220		EXISTING LOAD	2.73		
CIRCUIT	VOLTS	the second se	CO	OTHER LOAD SERVICE	AM	CA		3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIR	E	2	220		EXISTING	4.91		
1	220			SUSANO GF/2F	43.64				9600	70 AT, 2P, BOLT - ON	2 -14mm* THHN 1-8.0mm* TW (C IN 32mmØ PVC	+	3	220		EXISTING LOAD	2.73		1
2	220			SUSANO 3F	20.73				4560	40 AT, 2P, BOLT - ON	2 -8.0mm² THH? 1-5.5mm² TW (0 IN 25mmØ PV0		4	220		EXISTING	4.91		1
3	220			COVERED COURT	25.45				5600	60 AT, 2P, BOLT - ON	2 -14mm* THHN 1-8.0mm* TW (0 IN 32mmØ PV0	0	5	220		EXISTING LOAD	2.73		
		T	τс	A L	89.82	0.00	0.00	0.00	19760				6	220		EXISTING LOAD	2.73		
													FEEDE	R LINE:	USE: 2 -	8.0 mm ^a THHN + 1	- 5.5mm	'THW (	G), IN
so	HED	UL	E	OF LOADS	8: S	USA	ANC	)(/	IEW)			2	SCI	HED	ULE	OF LOAD	<b>s</b> : S	USA	N

# 24-00015

## СВ

۱D	3Ø	VOLT	CIRCUIT	
3C	260	AMPERE	BREAKER	SIZE OF WIRE
		600	15 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mm2 PVC
		1,080	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC
		600	15 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC
		1,080	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC
		600	15 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mm@ PVC
		600	15 AT, 2P, BOLT - ON	2 -3.5mm² THHN + 1-2.0mm² TW (G) IN 20mmØ PVC
		4560	ci ci ci	

N 25mm Ø PVC



NUMBER       VOLTS       LO       CO       SERVICE       AB       CA       BC       30       AMPERE       BREAKER       SIZE OF WIRE         1       220       2       EXISTING       6.55       2       2       30       AMPERE       BREAKER       SIZE OF WIRE       1       200       CO       SERVICE       AB       CA       BC       30       AT       20       1       200       CO       SERVICE       AB       CA       BC       30       AT       20       2.5 mm ³ THM ⁴ 30       AT       20       1       220       1       EXISTING       8.18       1       0       0       10       2.5 mm ³ THM ⁴ 1       220       1       EXISTING       8.18       1       0       0       10       2.5 mm ³ THM ⁴ 2.2 mm ⁴ THM ⁴ 1       220       1       EXISTING       8.18       1       0       0       10       2.6 mm ⁴ THM ⁴ 1       200       1       EXISTING       8.18       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	MAIN :		OUTLET	-	50KAIC,	PERE		in and a second	VOLT	CIRCUIT		- L H	MAIN : CIRCUIT	60 A7	OUT		OTHER LOAD	OKAIC AN	PERE		Č
1       220       EXISTING       6.55       1440       30/A, 20, 1, 20, 1, 3 mm ² TV(G) IN 20mm PVC       1       220       EXISTING       8.18       1       1       220       EXISTING       8.18       1       1       220       1       EXISTING       8.18       1       1       220       220       1       EXISTING       8.18       1       1       220       1       EXISTING       8.18       1       1       220       220       1       EXISTING       8.18       1       1       220       220       1       EXISTING       8.18       1       1       220       220       1       EXISTING       8.18       1       1       20       1       220       1       1       220       1       1       20       1       1       20       1       1       20       1       1       20       1       1       20       1       1       1       1       20       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <th></th> <th>VOLTS</th> <th>LO CO</th> <th></th> <th>AB</th> <th>CA</th> <th>BC</th> <th>3Ø</th> <th>AMPERE</th> <th></th> <th>SIZE OF WIRE</th> <th></th> <th></th> <th>VOLTS</th> <th>LO</th> <th>and the second second</th> <th></th> <th>AB</th> <th>CA</th> <th>BC</th> <th>3Ø</th>		VOLTS	LO CO		AB	CA	BC	3Ø	AMPERE		SIZE OF WIRE			VOLTS	LO	and the second second		AB	CA	BC	3Ø
3       220       Image: Second secon	1	220			6.55				1440	30 AT, 2P, BOLT - ON	2 -5.5mm* THHN + 1-3.5mm* TW (G) IN 20mmØ PVC		1	220				8.18			1
4       220       Image: State of the state of	2	220		EXISTING LOAD	2.73				600	15 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC		2	220	1		EXISTING LOAD	8.18			
5       220       EXISTING LOAD       20.73       4560       60 AT, 2P, BOLT - ON       2 · 14mm ² TH/N + 1-3.0mm ² TW (G) IN 32mm8 PVC       5       220       EXISTING LOAD       4.55       6         6       220       EXISTING LOAD       2.73       600       15 AT, 2P, BOLT - ON       2 · 3.5mm ² TH/N + 1 · 2.0mm ³ TW (G) IN 20mm8 PVC       5       220       EXISTING LOAD       4.55       6         7       0 T A L       43.64       9600       15 AT, 2P, BOLT - ON       2 · 3.5mm ² TH/N + 1 · 2.0mm ³ PVC       6       220       EXISTING LOAD       4.55       6       2         1T = 43.64 AMPERES FEEDER LINE:       43.64       9600       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T	3	220			8.18				1,800	40 AT, 2P, BOLT - ON	2 -8.0mm* THHN + 1-5.5mm* TW (G) IN 25mmØ PVC		3	220			EXISTING LOAD	4.55			
5       220       EXISTING LOAD       20.73       4560       60 A1, 2P, BOLT - ON       1-8.0mm* TW (G) IN 32mm0 PVC       5       220       EXISTING LOAD       4.55       6         6       220       EXISTING LOAD       2.73       600       15 AT, 2P, BOLT - ON       2-3.5mm* THEN + 1-2 Chrme* TW (G) IN 32mm0 PVC       6       220       EXISTING LOAD       4.55       6         6       220       EXISTING LOAD       2.73       6000       15 AT, 2P, BOLT - ON       2-3.5mm* THEN + 1-2 Chrme* TW (G) IN 20mm0 PVC       6       220       EXISTING LOAD       4.55       6         17 = 43.64 AMPERES       43.64       9600       9600       15 AT, 2P, BOLT - ON       1.40mm0 PVC       5       220       EXISTING LOAD       4.55       6       220       EXISTING LOAD       4.55       6         17 = 43.64 AMPERES       43.64       9600       9600       EXISTING IN 20 MIND PVC       15       17 O T A L       25.45       17 = 25.45 AMPERES         FEEDER LINE:	4	220		EXISTING LOAD	2.73			Ĩ	600	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC		4	220			EXISTING LOAD	4.55			
TOTAL         43.64         9600         TOTAL         25.45           IT = 43.64 AMPERES FEEDER LINE:         IT = 25.45 AMPERES FEEDER LINE:         IT = 25.45 AMPERES FEEDER LINE:         IT = 25.45 AMPERES	5	220		EXISTING LOAD	20,73				4560	60 AT, 2P, BOLT - ON	1-8.0mm² TW (G) IN 32mmØ PVC		5	220			EXISTING LOAD	4.55			
IT = 43.64 AMPERES FEEDER LINE: IT = 25.45 AMPERES FEEDER LINE:	6	220		EXISTING LOAD	2.73				600	15 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC		6	220			EXISTING LOAD	4.55			
FEEDER LINE: FEEDER LINE:		т	ота	L	43.64				9600					т	0 1	AI	L	25.45			
			USE: 2 - 1	4 mm* 1 HHN + 1 -	- 8,0mm*	- 1HW (	G), IN 3.	emm	Ø PVC			l			USE:	Z = 14	.0 mm* 1 HAN + 1	- 8.0m	m- THW	(G), IN	32m
	S	HEC	ULE	OF LOAD	)S:	SUS	SANO	-Gł FL	ROUND F DOR ( IN	LOOR ( E	XISTING )	2	SCI	HED	UL	EC	OF LOAD	<b>s:</b> c	ovi	ERE	D

1.

ED OOUDT /	NUOTINIO	
PED COURT (E	XISTING )	)
- Ar	SHEET CONTENT:	SHEET NO.
RED COURT (E	1	SHEET NO.

2	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
		1,800	30 AT, 2P, BOLT - ON	2 -5.5mm* THHN + 1-3.5mm* TW (G) IN 20mm@ PVC
		1,800	30 AT, 2P, BOLT - ON	2 -5.5mm* THHN + 1-3.5mm* TW (G) IN 20mmØ PVC
		1,000	20 AT, 2P, BOLT - ON	2 ~3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC
		1,000	20 AT, 2P, BOLT - ON	2 -3.5mm ^a THHN + 1-2.0mm ^a TW (G) IN 20mmØ PVC
		1,000	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC
		1,000	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC
		5600		

24-00015

												T								
PANEL: MAIN :			0 1 (E 50 AF	XISTING) 7, 2P 5	OKAIC	, 240	, мсс	св		10			NEL: IN :			D 2 (E 00 AF	XISTING) 7, 2P 8	5KAIO	; 240	V, MC
CIRCUIT NUMBER	VOLTS	OU LO	CO	OTHER LOAD SERVICE	AM AB	CA		3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE		UIT	VOLTS		TLET CO	OTHER LOAD SERVICE	AM		LOAD
1	220			EXISTING LOAD	24.18				5320	40 AT, 2P, BOLT - ON	2 -8.0mm² THHN + 1-5.5mm² TW (G) IN 25mmØ PVC		1	220			EXISTING LOAD	32.73		
2	220			EXISTING LOAD	24.18				5320	40 AT, 2P, BOLT - ON	2 -8.0mm* THHN + 1-5.5mm* TW (G) IN 25mm/2 PVC		2	220			EXISTING LOAD	32.73		
3	220			EXISTING LOAD	24.18				5320	40 AT, 2P, BOLT - ON	2 -8.0mm* THHN + 1-5.5mm* TW (G) IN 25mmØ PVC		3	220			EXISTING LOAD	32.73		
4	220			EXISTING LOAD	24.18				5320	40 AT, 2P, BOLT - ON	2 -8.0mm* THHN * 1-5.5mm* TW (G) IN 25mmØ PVC	3	4	220			EXISTING LOAD	32.73		
		т	οт	A L	96.73	0.00	0.00	0.00	21280						т	от	AL	130.9	0.00	0.00
PANEL:	CAST	ELO	1 GF	TYPICAL TO C	ASTE	L012	PF, 3F	AND	4F) (EXIST	ING)			IEL:	CAS	TELC	1 GF	TYPICAL TO C	ASTE	LO 1	2F. 3
MAIN :	40 A7	, 100		2P 501	KAIC,		MCCE					MAI	N :		T, 100	) AF,	2P 501	KAIC,	240V,	MCC
UMBER	VOLTS	_	CO	OTHER LOAD SERVICE	AB	CA	BC	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE	CIRC		VOLTS	_	CO	OTHER LOAD SERVICE	AMP	CA	BC
1	220	_		EXISTING LOAD	3.64				800	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN * 1-2.0mm* TW (G) IN 20mmØ PVC	1		220			EXISTING LOAD	5.45		
2	220			EXISTING LOAD	3.64				800	20 AT, 2P, BOLT - ON	2 -3.5mm ² THHN + 1-2.0mm ² TW (G) IN 20mm@ PVC	2	Ś.	220			EXISTING LOAD	5.45		
3	220			EXISTING LOAD	4.91				1080	20 AT, 2P, BOLT - ON	2 -3,5mm² THHN + 1-2.0mm² TW (G) IN 20mmØ PVC	3		220			EXISTING LOAD	9.82		
4	220			EXISTING LOAD	12.00		_		2640	20 AT, 2P, BOLT - ON	2-3.5mm* THHN + 1-2.0mm* TW (G) IN 20mm@ PVC	4		220			EXISTING LOAD	12.00		
		т	т	AL	24.18	0.00	0.00	0.00	5320						T (	от	AL	32.73	0.00	0.00
	27.18 AM R LINE:			.0 mm² THHN + 1 -	8.0mm	THW	(G), IN	40mm	Ø PVC					5.73 AN R LINE:			.0 mm² THHN + 1 -	8.0mm	" THW	(G), I≬
sc	HED	UL	.E (	OF LOADS	S: 7	AST	ELO	-1( CAS	EXISTIN	IG ), CAST	ELO - 1 GF - ( EXISTING )	2	sc	HED	OUL	EC	OF LOADS	<b>S:</b> 7		TELC P. TO
				PROJECT		1113	10	0/10	1	DATE	SUBMIT				-		ENDING APPROVAL	(	1	ROVED
	DEPARTM	ntgod ENT C m tyck m tenni mhlar s		INEERING A Theorem Control LOCATION	PGRAD SONG IN BAR	LY SYS ING OF TAMO I ANGA Y	ELEC PASO	COMFC TRICA NTARY	SCHOOL	DESIGNED BY		FREDISWING		E GUZMJ pivisića		TY, MA	RK DALE PLANOND P	. PERRA		ION. MA

	CIRCUIT	VOLT	124	OAD.	ERE L	AMP	D
SIZE OF WIRE	BREAKER	AMPERE	3Ø	BC	CA	AB	
2 -8.0mm* THHN + 1-5.5mm* TW (G) IN 25mmØ PVC	40 AT, 2P, BOLT - ON	7200				32.73	AD
2 -8.0mm* THHN + 1-5.5mm* TW (G) IN 25mmØ PVC	40 AT, 2P, BOLT - ON	7200				32.73	AD
2 -8.0mm* THHN + 1-5.5mm* TW (G) IN 25mmØ PVC	40 AT, 2P, BOLT - ON	7200				32.73	AD
2 -8.0mm² THHN + 1-5.5mm² TW (G) IN 25mmØ PVC	40 AT, 2P, BOLT - ON	7200				32.73	AD
		28800	0.00	0.00	0.00	130.91	

HHN + 1 - 8.0mm² THW (G), IN 40mm Ø PVC

AD	AM	PEREI	LOAD		VOLT	CIRCUIT	
	AB	CA	BC	3Ø	AMPERE	BREAKER	SIZE OF WIRE
DAD	5.45				1200	20 AT, 2P, BOLT - ON	2 -3.5mm ^a THHN - 1-2.0mm ^a TW (G) IN 20mmØ PVC
DAD	5.45				1200	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mm@ PVC
DAD	9.82				2160	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC
DAD	12.00				2160	20 AT, 2P, BOLT - ON	2 -3.5mm* THHN + 1-2.0mm* TW (G) IN 20mmØ PVC
	32.73	0.00	0.00	0.00	7200		

HN + 1 - 8.0mm² THW (G), IN 40mm Ø PVC

CA (T	STELO - 2 ( EXISTING ), YP. TO CASTELO 1, 2F,	CASTELO - 1 3F & 4F ( EXI	GF STING )
	APPROVED BY:	SHEET CONTENT:	SHEET NO.
RRAJ _e .	HON. MA. JOSEFINA G. BELMONTE	SCHEDULE OF LOADS: CASTELO - 1 (EXISTING) CASTELO - 7 GF (TYP: TO CASTELO 7 (TYP: TO CASTELO 7 SCHEDULE OF LOADS: CASTELO - 2 (EXISTING) CASTELD - 2 (EXISTING) CASTELD - 1 GF (TYP: TO CASTELO 1 2F, 3F & 4F (EXISTING)	EL-12 2929

# Section VIII. Bill of Quantities

## Notes on the Bill of Quantities

### Objectives

The objectives of the Bill of Quantities are:

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

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

### **Daywork Schedule**

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

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

### **Provisional Sums**

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

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

#### **Signature Box**

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

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

PROJECT TITLE : PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL

LOCATION : BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 24 - 00015

DURATION : Ninety (90) Calendar Days

#### BREAKDOWN OF COST

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT	TOT	AL MARK-UP	VAT	TOTAL INDIRECT COST	TOTAL COST
	DESCRIPTION	COST	%	VALUE		TOTAL INDIRECT COST	TOTAL COST
PART I	OTHER GENERAL REQUIREMENTS						
PART II	CIVIL, PLUMBING/ SANITARY, ELECTRICAL AND MECHANICAL WORKS						
PART A	EARTHWORKS						
PART B	PLAIN AND REINFORCED CONCRETE WORKS						
PART C	FINISHING AND OTHER CIVIL WORKS						
PART D	SANITARY/PLUMBING WORKS						
PART E	ELECTRICAL WORKS						
PART F	MECHANICAL WORKS						
	TOTAL OF PART III						
	GRAND TOTAL						

TOTAL COST ₽_____

LUMP SUM BID IN WORDS : _____

Contractor : _____

Page 3 of 3 Bid Form

#### **BILL OF QUANTITIES**

#### (Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM, COMFORT ROOM AND UPGRADING OF ELECTRICAL SYSTEM AT PASONG TAMO ELEMENTARY SCHOOL

LOCATION : BARANGAY PASONG TAMO, DISTRICT 6, QUEZON CITY

PROJECT NO. : 24 - 00015

DURATION : Ninety (90) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED	MARK	-UP IN %	T01	AL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
ITEW CODE	DESCRIPTION	QUANTIT	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE		COST	TOTAL COST	0111 0031
PART I	OTHER GENERAL REQUIREMENTS											
B.4(1)	Construction Survey and Staking	5	sq.m.									
B.5	Project Billboard / Sign Board	1	ea									
B.7	Occupational Safety and Health	3	month									
B.20	Temporary Enclosure	1	l.s.									
	TOTAL OF PART II											
PART II	CIVIL, PLUMBING/ SANITARY, ELECTRICAL AND MECHANICAL WORKS											
PART A	EARTHWORKS											
800(1)	Clearing and Grubbing	21	sq.m.									
801(6)	Removal of Actual Structures	12	cu.m.									
803(1)c	Structure Excavation (Solid Rock)	7	cu.m.									
804(1)a	Embankment from Structure Excavation	4	cu.m.									
804(4)	Gravel Fill	1	cu.m.									
	SUB-TOTAL OF PART A											
PART B	PLAIN AND REINFORCED CONCRETE WORKS											
900(5)	Structural Concrete, On-site Mix, 4000psi, 28 days	4	cu.m.									
902(1)a	Reinforcing Steel, Grade 40	163	kg									
903(2)	Forms and Falseworks	11	sq.m.									
PART C	FINISHING AND OTHER CIVIL WORKS											
1004(2)	Finishing Hardware	1	l.s.									
1014(1)b2	Prepainted Metal Sheet, above 0.427mm, Rib Type, Long Span	6	sq.m.									
1016(1)b	Waterproofing, Liquid	322	sq.m.									
1018(1)	Glazed and Trim Tiles	1,179	sq.m.									

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED	MARK	-UP IN %	T0	TAL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
TIEM CODE	DESCRIPTION	QUANTIT	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE		COST	TOTAL COST	UNITCOST
1018(2)	Unglazed Tiles	322	sq.m.									
1027(1)a	Plain Cement Finish	41	sq.m.									
1027(1)b	Cement Plaster Finish	32	sq.m.									
1032(1)a	Painting Works, Masonry/Concrete	32	sq.m.									
1032(1)c	Painting Works, Steel	76	sq.m.									
1046(2)a2	CHB Non Load Bearning (Including Reinforcing Steel), 150mm	22	sq.m.									
1047(1)	Structural Steel, Water Tank Support & Gate	1	l.s									
1047(8)a	Structural Steel, Tubular Bar	37	kg									
1047(8)b	Structural Steel, Purlins	19	kg									
	Wire Mesh	3	sq.m.									
	SUB-TOTAL OF PART C											
PART D	SANITARY/PLUMBING WORKS											
1002(4)	Sanitary/Plumbing Fixtures	1	l.s.									
1002(9)	Cold Water Line Works	1	l.s.									
PART E	ELECTRICAL WORKS											
1100 (10)	Conduits, Boxes and Fittings	1	l.s.									
1101 (33)	Wires and Wiring Devices	1	l.s.									
1102 (1)a	Panelboard with Main and Branch Breakers	1	l.s.									
	SUB-TOTAL OF PART F											
PART F	MECHANICAL WORKS											
1201 (1)	Water Pumping System	1	l.s.									
	SUB-TOTAL OF PART G											
	TOTAL OF PART II											
	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

Legal Documents

- □ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); and
- (b) 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;

and

- (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
   and
- $\Box$  (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- □ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*please see attached prescribed forms required by the QC BAC for Infrastructure and Consultancy*); and
- □ (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (please see attached prescribed form required by the QC BAC for Infrastructure and Consultancy); and
- (h) Philippine Contractors Accreditation Board (PCAB) License;
   <u>or</u> Special PCAB License in case of Joint Ventures;

and registration for the type and cost of the contract to be bid; and

(i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
 or

Original copy of Notarized Bid Securing Declaration; and

- (j) 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

 $\Box$  (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)
- Equipment Utilization Schedule
- □ Manpower Schedule
- Construction Schedule and S-Curve
- PERT-CMP
- Construction Methods

Financial Documents

- □ (1) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and
- (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (please see attached prescribed form required by the QC − BAC for Infrastructure and Consultancy).

#### Class "B" Documents

□ (n) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;

<u>or</u>

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**

 $\Box$  (o) Original of duly signed and accomplished Financial Bid Form; <u>and</u>

#### Other documentary requirements under RA No. 9184

- $\Box$  (p) Original of duly signed Bid Prices in the Bill of Quantities; <u>and</u>
- □ (q) Duly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; and
- $\Box$  (r) Cash Flow by Quarter.

### Bid Form for the Procurement of Infrastructure Projects [shall be submitted with the Bid]

#### **BID FORM**

Date : _____

Project Identification No. : _____

To: [name and address of Procuring Entity]

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

- We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: [insert name of contract];
- b. We offer to execute the Works for this Contract in accordance with the PBDs:
- 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,
- Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

¹ currently based on GPPB Resolution No. 09-2020

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

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

## Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

- I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
  - Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - 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, <u>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;</u>
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
- 6. [Select one, delete the rest:]

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

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

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

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

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - 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. We pledge that the project will be completed in accordance and congruency with the approved plans and programs.

**IN WITNESS WHEREOF,** I have hereunto set my hand this ____ day of ______ 20__ at , Philippines.

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

[Jurat] [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:

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

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

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

 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

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

#### LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR:

PROJECT TITLE				CONTRACTOR'S BOLE (SOLE CONTINCTOR, SUBCONTINCTOR,	TOTAL	DATE OF	CONTRACT	PERC	NTAGE	
[Name of the Centract] DATE OF E EXACT PROJECT LOCATION	ATE OF CONTRACT PROJECT GWINER & MATURE OF WORK	ANTINGS IN A MY CONTRACT	COMPLETION of ESTIMATED COMPLETION TIME	VALUE AT COMPLETION IF APPLICABLE	ACTUAL ACCOMPUSHMENT	PLANNED ACCOMPLISHMENT	VALUE OF OUTSTANDING WORKS (IN PHP)			
								TOTAL AMOUNT OUTSTANDING V		

Page____of____

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

NAME OF CONTRACTOR:

PROJECT TITLE: _____

PROJECT TITLE & EXACT LOCATION	MAJOR SCOPE OF WORKS & DATE STARTED	NAME AND ADDRESS OF PROJECT OWNER	CONTRACT PRICE (PHP) AS AWARDED	DATE OF SCHEDULED COMPLETION	ROLE OF BIDDER <u>IN THE</u> <u>CONTRACT SOLE</u> <u>CONTRACTOR / SUB-</u> CONTRACTOR/PARTNER IN A
		5			
		TOTAL AMOUNT OF CONTRACT (Php)			

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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#### SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR:

PROJECT TITLE:

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE SOLE CONTRACTOR, SUBCONTRACTOR, PARTHER IN A JVJ and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETIO IF APPLICABI
								IT APPLICAD

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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

NAME OF CONTRACTOR:

## PROJECT TITLE:

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

Page____of____

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

NAME OF CONTRACTOR:

## PROJECT TITLE: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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## COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER:

CURRENT ASSETS*		РНР	
(LESS) CURRENT LIABILITIES*	(LESS)	PHP	
NETWORTH		PHP	
NETWORTH x 15	x 15	РНР	
(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**	(LESS)	- РНР	
(LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE**	(LESS)	PHP -	
NET FINANCIAL CONTRACTING CAPACITY		РНР	
		-01 	

NOTES: 
+ CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.

> ** BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

### REPUBLIC OF THE PHILIPPINES)

5. B

____) S. S.

## AFFIDAVIT OF UNDERTAKING

REPR	I,, of legal age, Filipino,[OFFICER_OR ESENTATIVE]
	office address atafter
naving	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
	That relative to the aforementioned Project, the <u>[Name of Bidder]</u> 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 said 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.
of	IN WITNESS HEREOF, I have hereunto signed my name below this day
	AFFIANT FURTHER SAYETH NAUGHT.

Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this	_ day of
in	

affiant exhibiting to me his/her _____ issued at on

Doc, No. ÷ Page No. ; Book No. ÷ Series of 2020

Notary Public

