PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED INSTALLATION OF WET STAND PIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

Project number: 23-00159

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

October 24, 2023

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Durati on Cal. Days	Office	Source Fund
Buil	dings – :	Small B					
1	23- 00156	Proposed Relocation and Upgrading of Service Entrance at Doña Rosario Elementary School	Novaliches Proper	6,104,175.68	90	Department of Engineering	Special Education Fund-Local School Board
2	23- 00157	Proposed Rehabilitation of Buildings I and II, Stage and Perimeter Fence at Nick Joaquin Senior High School	Bahay Toro	12,147,998.02	120	Department of Engineering	Special Education Fund-Local School Board
3	23- 00158	Proposed Rehabilitation of Quezon City University - San Francisco Campus Gate, Perimeter Fence and School Grounds	Sto. Cristo	13,247,508.06	120	Department of Engineering	Engineering - Continuing
4	23- 00159	Proposed Installation of Wet Stand Pipe System and Upgrading of Service Entrance at Project 6 Elementary School	Project 6	16,905,458.56	120	Department of Engineering	Special Education Fund-Local School Board
5	23- 00160	Proposed Rehabilitation of seven (7) school Buildings at Dra. Josefa Jara Martinez High School	Tatalon	18,216,061.97	180	Department of Engineering	Special Education Fund-Local School Board
6	23- 00161	Proposed Rehabilitation of Admin Building at Quezon City Drug Treatment and Rehabilitation Center	Payatas	23,214,596.70	210	Department of Engineering	20% CDF- Continuing Appropriation
Buil	dings –	Medium A					,
7	23- 00162	Proposed Construction of Histophatology, Milk Bank and Microbiology at Rosario Maclang Bautista General Hospital	Batasan Hills	37,857,471.70	240	Engineering Department	20% CDF Continuing Appropriation
8	23- 00163	Proposed Construction of four (4) storey with Roof Deck Multi-Purpose Building	Payatas	56,903,558.87	300	Engineering Department	20% CDF- Continuing Appropriation
9	23- 00164	Proposed Improvement of three (3) storey with Mezzanine and Roof Deck of Disaster Risk Reduction and Management Office Building	Central	76,995,908.34	240	Department of Engineering	Engineering – Continuing Appropriation

		Bronnend Construction of					
10	23- 00165	Proposed Construction of Retaining Wall at Bayanihan ng Litex Homeowners Association	Commonw ealth	9,485,200.41	60	Department of Engineering	LDRRMF - Continuing Fund
11	23- 00166	Proposed Construction of Box Culvert in Alley 15	Bahay Toro	14,303,221.32	150	Department of Engineering	LDRRMF - Continuing Fund
Floo	d Contr	ol – Medium A					
12	23- 00167	Proposed Construction of Slope Protection (Bored Piles) along Kalamiong Creek (Sta. 0+366.49 - Sta. 0+420)	Payatas	77,634,473.61	300	Department of Engineering	LDRRMF - Continuing Fund
Park	ks – Sma	all B					
13	23- 00168	Proposed Development of Elliptical Road Directional Island at East Avenue Intersection	Pinyahan, Central	7,615,580.69	90	Parks Development & Administration Department	DOTr - Trust Fund
14	23- 00169	Proposed Development of Elliptical Road Directional Islands at Quezon Avenue and Visayas Avenue Intersections	Bagong Pag-Asa, Vasra	8,081,214.66	90	Parks Development & Administration Department	DOTr – Trust Fund
15	23- 00170	Proposed Landscaping of Bike Lane and Sidewalk Improvement at Elliptical Road (Phase 1)	Pinyahan, Central, Bagong Pag-Asa, Vasra, Old Capitol Site	10,192,589.25	75	Parks Development & Administration Department	DOTr – Trust Fund
Buil	ding - N	ledium B					
16	23- 00172	Proposed Construction of Amoranto Indoor Sports Facility Building and Improvement of Existing Multi-purpose Building at Amoranto Sports Complex, Quezon City	Barangay Paligsahan	269,163,045.25	450	Department of Engineering	Engineering - Continuing Appropriation

- The QUEZON CITY LOCAL GOVERNMENT, through funding source of various years
 intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to
 payments under the contract for the above stated Projects. Bids received in excess of the ABC
 shall be automatically rejected at bid opening.
- The QUEZON CITY LOCAL GOVERNMENT now invites bids for the above Procurement Project. Completion of the Works is required as stated above. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- Bidding will be conducted through open competitive bidding procedures using nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

- Interested bidders may obtain further information from QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat and inspect the Bidding Documents at the address given below weekdays from 8:00 am. – 5:00 p.m.
- 5. A complete set of Bidding Documents may be acquired by interested bidders on October 25, 2023 (Wednesday) from given address and website/s below and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.

STANDARD RATES:

Approved Budget for the Contract	Maximum Cost of Bidding Documents (in Philippine Peso)
500,000 and below	500.00
More than 500,000 up to 1 Million	1,000.00
More than 1 Million up to 5 Million	5,000.00
More than 5 Million up to 10 Million	10,000.00
More than 10 Million up to 50 Million	25,000.00
More than 50 Million up to 500 Million	50,000.00
More than 500 Million	75,000.00

The following are the requirements for purchase of Bidding Documents;

- PhilGEPS Registration Certificate (Platinum 3 Pages)
- 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 November 06, 2023 at 9:30 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) which shall be open to prospective bidders.

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

- Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before November 28, 2023 – 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.

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.

 Bid opening shall be on November 28, 2023 – 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

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

ATTY. DOMINIC B. GARCIA

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

Email Add: bacinira.procurement@quezoncity.g

Website: www.quezoncity.gov.ph

12. You may visit the following websites:

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

By:

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

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, Quezon City Government invites Bids for the PROPOSED INSTALLATION OF WET STAND PIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL, with Project Identification Number 23-00159.

[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 Sixteen Million Nine Hundred Five Thousand Four Hundred Fifty-Eight Pesos and 56/100 Ctvs. (16,905,458.56).
- 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 November 06, 2023, 09:30 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

15. Bid Security

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

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

For this purpose, similar contracts similar categories of work. Subcontracting is not allowed. No additional contractor license or	hall refer to cont	tracts which have the same		
No additional contractor license or		Subcontracting is not allowed.		
No additional contractor license or permit is required In addition, eligible bidders shall qualify or comply with the following: 1. Bidders with valid Philippine Contractors Accreditation Board (PCAB) Type Byildings, Small B				
The minimum work experience requirements for key personnel are t following:				
 Project-In-Charge (Project Engineer) General Foreman Safety Officer DPWH Duly Accredited Materials Engineer Trade Engineers/ Leadman for Civil Works Trade Engineers/ Leadman for Electrical Works In addition, the bidder must example and addition of the bidder must example and additi	3 years 3 years 3 years 3 years 3 years 4 years 4 years	perform work exclusively		
Equipment Dump Truck One Bagger Mixer Welding Machine Chipping Gun In addition, the bidder must ex	Capacity 12 yd ³ 4-6 ft ³ /min 500 amp	Number of Units 1 1 1 1 1 viit of undertaking duly		
	1. Bidders with valid Philippine Cor Type Buildings - Small B The minimum work experience following: Qnty. Key Personnel Gener 1 Project-In-Charge (Project Engineer) 1 General Foreman 1 Safety Officer 1 DPWH Duly Accredited Materials Engineer 1 Trade Engineers/ Leadman for Civil Works 1 Trade Engineers/ Leadman for Electrical Works In addition, the bidder must exportance stating that the foregoing for the project until its completion. The minimum major equipment requipment Dump Truck One Bagger Mixer Welding Machine Chipping Gun In addition, the bidder must exportance of the project until its completion. In addition, the bidder must exponential machine chipping Gun	Type Buildings - Small B The minimum work experience requirements for following: Qnty. Key Personnel General Experience 1 Project-In-Charge 3 years (Project Engineer) 1 General Foreman 3 years 1 Safety Officer 3 years 1 DPWH Duly Accredited 3 years Materials Engineer 1 Trade Engineers/ Leadman 3 years for Civil Works 1 Trade Engineers/ Leadman 3 years for Electrical Works In addition, the bidder must execute an affida notarized stating that the foregoing personnel shall for the project until its completion. Please see attact. The minimum major equipment requirements are the Equipment Capacity Dump Truck 12 yd³ One Bagger Mixer 4-6 ft³/min Welding Machine 500 amp		

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 338,109.17 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or			
	b) The amount of not less than Php 845,272.93 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.			
19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot			
	and the lot shall not be divided into sub-lots for the purpose of bidding,			
	evaluation, and contract award.			
20	No additional requirement.			
21	Additional Contract Documents relevant to the Project as required:			
	1. Construction Schedule and S-curve,			
	2. Manpower Schedule,			
	3. Construction Methods,			
	4. Equipment Utilization Schedule,			
	5. PERT/CPM or other acceptable tools of project scheduling, shall be			
	included in the submission of Technical Proposal.			

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 120 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the
	Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: [list here the required site investigation
	reports.]
7.2	[Select one, delete the other.]
	[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:] Fifteen (15) years.
	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
	[In case of other structures, such as bailey and wooden bridges, shallow
	wells, spring developments, and other similar structures:] Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is thirty (30) days The date by which "as built" drawings are required as part of final
	payment
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

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

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



Republic of the Philippenes Quezon City CITY ENGINEERING DEPARTMENT

Givic Center Building B. Quezon City Hall Compound, Elliptical Road Dilliman, Central 1100 Quezon City Trunk line: +63.2 8988 4242



TECHNICAL SPECIFICATIONS QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: PROPOSED INSTALLATION OF WET STAND PIPE SYTEM AND UPGRADING OF

SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

LOCATION: BARANGAY PROJECT 6, DISTRICT 1, QUEZON CITY

GR. GENERAL REQUIREMENTS

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

- All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
- Temporary facilities shall be provided and mainteined including sanitary facilities and first etd stations
- iii Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
- y 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, hauledout and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
 - A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
 - The medical room shall be provided in waterproof it could be a building or room designated and used exclusively for the purpose and have a floor erea of at least 15 square meters and a glazed window area of at least 2 square meters.
 - The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent sociations suitable notices in the site.
 - Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- Necessary protections to the adjacent property shall be provided to avoid unfoward incidents / accidents.
- m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

SW. SITE WORKS

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

CWS. CIVIL I STRUCTURAL WORKS

CWSC, CONCRETE WORKS

a. Detwery, 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 onginal. packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.

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

d. Materiels

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

d. Proportioning and Mixing

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

Cement : Sand : Gravel

- Class A 1 : 2 : 3
- Class '8" 1 . 2 : 4
- Class 'C' 1 : 2 %
- ii. Concrete mixture to be used for concrete shall conform with the structural requirements.
- iii. Mixing concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

e. Forms

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

Placing Reinforcement.

Steel reinforcement shall be provided as indicated, together with all necessary wire tires, chairs, spacer supported and other devices necessary to install and secure the

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

g. Conveying and Placing Concrete.

- i Conveying ~ concrete shall be conveyed from mixer to forms as rapidly as applicable, by mathods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- ii. Placing concrete shall be worked readily into the comers and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its finel position in the forms so that flow within the mass does not exceed two (2) maters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- iii Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.
- iv. Consolidation of Concrete concrete shall be consolidated with the eid of mechanical vibrating equipment and supplemented by the hand speding and 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 speding and tamping and vibrators shall not be used.
- v Placing Concrete through reinforcement In placing concrete through reinforcement, care shall be taken that no segregation of the coerse aggregate occurs. On the bottom of beams and slebs, where the congestion of steel near the forms makes placing difficult, a layer of morter of the same cement-send ratios as used in concrete shall be first deposited to cover the surfaces.

b, Curing

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

i. Finishing

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

CW\$MA. MASONRY

a. Maeonry Unita (CHB):

i. ! Dümm thick for all intenor walls and lexterior walls unless otherwise indicated.

- Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.
- iii. Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or stab unless otherwise indicated on plans. Provide stiffener columns & Intel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.
- b. Send:

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

Morter

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

d. Plaster bond-

Apply plaster bond to all wall area.

CWSPRW, ROOFING WORKS

- 8. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" king Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall be riveted to the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purtins with min. 2 ¼* max. 3* long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall tep the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.
- c. All moting sheets adjacent to concrete hollow block and other masorry walls such as property line firewarks, 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.

CWSMP. WATERPROOFING

Waterproofing:

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

b. Testing:

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

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

AW, ARCHITECTURAL WORKS

AWD, FABRICATED DOORS & WINDOWS

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

AW02, CEILING FINISHES

1. Moisture-Resistant Gypsum Board on Metal Frame. The ceiling materials to be used shall conform to the samples approved by the City Engineer. Alt celling works shall be done by men experienced and qualified to do this particular specialty trade. The installation of cailing materials shall be in accordance with the dotailed section and with the manufacturer's manual instructions. Ceiling materials shall be cut as required to fit the perpendicular condition and should be properly secured by enchorage and other accessories to complete the installation. No mechanical work shall be exposed on the finish work. All joints around electrical outlets, pipes and other works extending through materials shall be sealed with caulking.

AWP, PAINTING WORKS

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

S/PW 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 epolicable).
- Supply, installation and testing of the following.
 - 8.1 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.
 - 8.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
 - B.3 Soit waste end vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
 - B.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cteanout, drains, etc. Complete and operational.
- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.

- D. All equipment and instaltations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall escentain that facilities for proper maintenance, repair and replacement are provided.
- Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the tayout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catelogue of a general nature will not be accepted.
- K. All materials, equipment, componente and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- i. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- Mr. 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 chearence of debris.
- Q. Cleaning and flushing shall be carried out in sections as the instellation becomes completed.

EW. ELECTRICAL WORKS

A. CONDUITS, BOXES AND FITTINGS:

- A,1 This item shalt 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 squere boxes; conduit fittings, such as couplings, locknuts and bushings and other electrical materials needed to complete the conduit roughing-in work of this project.
- A.2 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.
- A.3 All works throughout shall be executed in the best practice in a workmanlike manner by qualified and expenenced electricians under the anned-site supervision of a duly supervision of a duly supervision of a duly

- A.4 The work to be done under this division of specifications consists of the fabrication, furnishing, delivery and installation, complete in all details of the electrical work, at the subject premises and all work materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by other fields. All works shall be done in accordance with the rules and regulations and with the specifications.
- A.5 All lighting fixtures and lamps are as specified and listed on lighting fixture schedule.
- A.6 All grounding system installation shall be executed in accordance with the approved plans. Grounding system shall include building perimeter ground wires, ground rods, clamps, connectors, ground wells and ground wire taps as shown in the approved design.
- A 7 All auxiliary systems such as telephone and intercom system, time clock system, fine alarm system and public address/nurse's call/paging system installations shall be done in accordance with the approved design.
- A.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.
- A.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.

8 WIRES AND WIRING DEVICES

- This Item shall consist of the furnishing and installation of all wires and wiring devices
 consisting of electric wires and cables, wall switches, convenience receptacles, heavy
 duty receptacles and other devices shown on the approved Plans but not mentioned
 in these specifications.
- 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 800 volts. All wires shall be copper, soft drawn and enneated, smooth and of cylindrical form and shall be centrally located inside the insulation.
- Conductors or wires shall not be drawn in conduits until after the centiant plaster is dry
 and the conduits are thoroughly cleaned and free from dirt end moisture. In drawing
 wires into conduits, sufficient stack shall be allowed to permit easy connections for
 fixtures, switches, receptacles and other wiring devices without the use of additional
 spices.
- 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 fugs or connectors of the solderless type, sufficiently large enough to enclose all strands of the conductors and securely fastened. They shall not loosen under vibration or normal strain.
- 6 All joints, taps and splices on wires larger than 14 mm shall be made of suitable solderless connectors of the approved type and size. They shall be taped with subber and PVC tapes providing insulation not less than that of the conductors.
- 7. No aptices or joints shall be permitted in either feeder or brench conductors except within outlet boxes or accessible junction boxes or pull-boxes. All joints in branch circuit wring shall be made mechanically and electrically secured by approved splicing.

- devices and taped with rubber and PVC tapes in a manner which will make their insulation as that of the conductor.
- 8. All wall switches and receptacles shall be fitted with standard Bakelite face plate covers. Device plates for flush mounting shall be installed with all four edges in continuous contact with finished wall surfaces without the use of coiled wire or similar devices. Plaster filling shall not be permitted. Plates installed in wet locations shall be gasketed.
- 9 When more than one switch or device is indicated in a single location, gang plate shall be used.

C. PANELBOARDS

- C.1 Fabricals 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.
- C.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
 - C.2.1 Rated for environmental conditions at installed location.
 - Indoor Dry and Clean Locations: NEMA, Type 1.
 - Outdoor Locations: NEMA, Type 3R.
 - iii Kitchen and Wash-Down Areas: NEMA, Type 4X, stamless steel.
 - iv. Indoor Locations Subject to Dust, Falling Dirt, and Oripping Noncomosive Liquids. NEMA, Type 12.
 - Outdoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, Type 5R.
 - C.2.2 From Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
 - C.2.3 Hinged Front Cover: Entire front from hinged to box and with standard door within hinged trim cover
 - C.2.4 Skirt for Surface-Mounted Panelboards. Same gauge and finish as panelboard front with flanges for attechment to penelboard, wall, and ceiling or floor.
 - C.2.5 Gutter Extension and Barrier; Same gage and finish as panelboard enclosure, integral with enclosure body. Arrange to isolate individual panel sections.
 - C.28 Finishes.
 - i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's stendard two-cost baked-on finish consisting of prime coat and thermosetting topcost.
 - ii. Back Boxes: Galvanized steet Same linish as panels and trim
 - Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
 - C.2.7 Directory Card: Inside panelboard door, mounted in transparent cerdholder metal frame with transparent protective cover.
- C.3 Incoming Mains Location: Top or Bottom
- C.4 Phase Neutral, and Ground Buses:

- C.4.1 Material: Hard-drawn copper, 98 percent conductivity.
- C 4.2 Equipment Ground Bus: Adequate for feeder and branch-curcuit equipment grounding conductors, bonded to box.
- C.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus reted 200 percent of phase bus and UL listed as suitable for nonlinear loads.

FP. FIRE PROTECTION WORKS

A. WET STANDPIPE SYSTEMS

- A.1. System design and layout
 - A.1.1. This specifies the design and layout of the wet standarpe system, including the location of the riser, the location of the fire department connection, the location of the hose valves, and the size and type of the pipe.
- A 2. Materials and equipment.
 - A.2.1. This specifies the materials and equipment to be used for the system, including the pipe, valves hose valves, fire department connection, and other components.
- A.3. Pipe size and flow rate
 - A.3.1 This specifies the pipe size and flow rate requirements for the system, based on the occupancy type and hazard classification of the building.
- A.4. Purity and water supply.
 - A.4.1. This specifies the pump and water supply requirements for the system, including the minimum water pressure and the capacity of the water supply.
- A.5. Sprinkler head
 - A 5.1 Sprinkler head shall be UL Listed/FM Approved, pendant, upright or sidewall unit, 83 EPM flow capacity per head and temperature fusing at 57.5°C to 74°C.
- A.6 Testing and commissioning
 - A 6.1 This specifies the testing and commissioning procedures for the system, including the procedures for verifying the performance of the system, the documentation requirements, and the acceptance criteria.

B. PUMPS AND CONTROLLERS

The fire pump shall be diesel engine driven or electric motor driven and capable of delivering a minimum of residuel pressure of 103kPa at the top-most and remotest sprinkler. The pump und shall be supplied with relief valve, gate valve, suction gauge and discharge pressure gauge. The fire pump shall be UL Listed/FM Approved, designed specifically intended for an automatic water sprinkler protection system.

A drop in system pressure due to the operation of one sprinklar pressure shall be imagered a series of automatic operation that will result in instantaneous operation of the engine to drive the fire pump with the aid of a battery eutomatic controller. The required accessories are: tachometer, oil pressure gauge, temperature gauge and control panel. A diesel fuel tank shall be provided to supply the engine for a minimum of two (2) hours running time

The jockey pump shall be UL Listed/FM Approved, electric motor driven, 220V, 3 phase, 60 hertz, and electric power connection.

ENGR. KELVIN M. MARZONIA

Planning and Design Division

ENGR. RADHIGREGOR M. MANALO

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.]



STRUCTURAL

ST-1 GENERAL NOTES

GATE DETAILS ST-3 TRUSS DETAILS

ELECTRICAL EL-! GENERAL NOTES

ELG FESSER DIAGRAM

EL-4 SCHEDULE OF LOAD BL-5 SCHEDULE OF LOAD R.4 SCHEDILLE OF LOAD EL-7 SCHEDULE OF LOAD

SL-8 SCHEDULE OF LOAD

\$L-8 BOHEDULE OF LOAD

\$1.10 BOHEDULE OF LOAD

EL-11 SCHEDULE OF LOAD EL /S GCHEDULE OF LOAD

FIRE PROTECTION PP I DEMORAL NOTES

FP-2 EQUIPMENT SCHEDULE

MATERIAL SPECIFICATIONS LEGENO AND SYMBOLS PENDENT TYPE SPRINKLER HEAD.

DETAIL OF GALVANIZED HANGETI SIDE WALLTYPE SPREWLER HEAD

UPRIGHT TYPE SPRENGER HEAD

DETAIL OF FIRE HOSE CABINET, FLUBHING CONNECTION, FIRE HOSE CABINET AND SIAMESE CORRECTION PIPE SLEEVE THRU WALL A FLOOR DETAIL

BET-UP VALVE ALARM DETAIL

CONTROL VALVE DETAIL DETAIL OF INSPECTOR'S YEST PIPE FP-5 DETAIL OF PIRE PUMP \$ JOCKEY PUMP FP 6 GROUND AND SECOND FLOOR PLAN

FP/7 THIRD AND POURTH PLOOR PLAN

DHIEF CONTRACT

WITE SCHEDULE LEGENDS AND SYMBOLS

MISCELLANSOUS DETAILS ELO BITE DEVELOPMENT PLAN (ELECTRICAL)

SERVICE ENTRANCE POST DETAILS

GROUND ROD TEST STATION DITTAL: FIRE RESERVE TANK LIGHTING LAYOUT

BEAM AND LOAD SCHEDULE COLUMN DETAILS

PIPING ENCLOSURE DETAILS MAN HOLE DETAILS

ST-ST FIRE RESERVE TWIK FOUNDATION PLAN.

FIRE PRESERVE TANK SECTIONS 8T4 SERVICE ENTRANCE POST DETAILS DISTRIBUTION POST DETAILS

FRAMING PLAN AND ROOF FRAMING PLAN



LOCATION MAP

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SITE DEVELOPMENT PLAN

VICINITY MAP

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 8 **ELEMENTARY SCHOOL**

LOCKTON BROY PROJECT & DISTRICT 1 GUEZONOTY

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SOMETTED BY ENGR. LED S. DEL ROBARID HENCE, PEANWING & CHESTATION ASSESSMENT

ATTY, MARK DALL DAMOND F. PERRAL

RECOMMENDING APPROVAL

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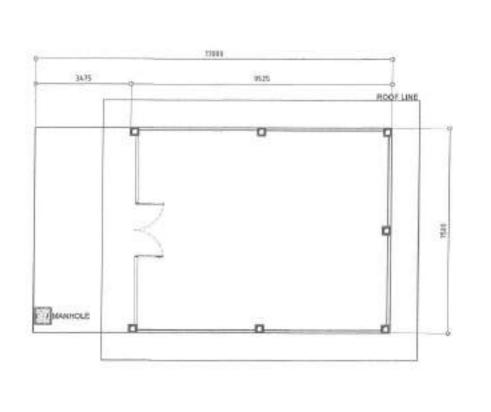
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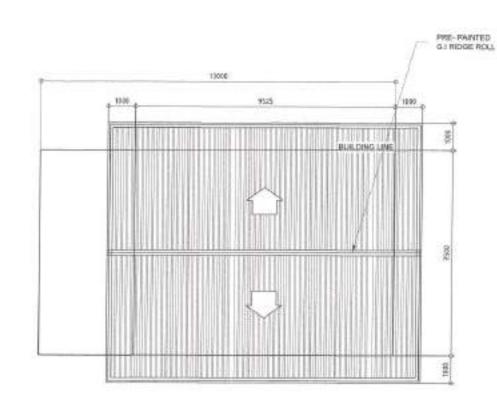
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STEDEVELOPMENT PLAN





PUMP ROOM FLOOR PLAN

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PUMP ROOM ROOF PLAN

SCALE 1:100M SHEET NO.

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PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 **ELEMENTARY SCHOOL** LOCATION

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BUDWITTED BY: ENGR. LED S. DEL ROSARIO

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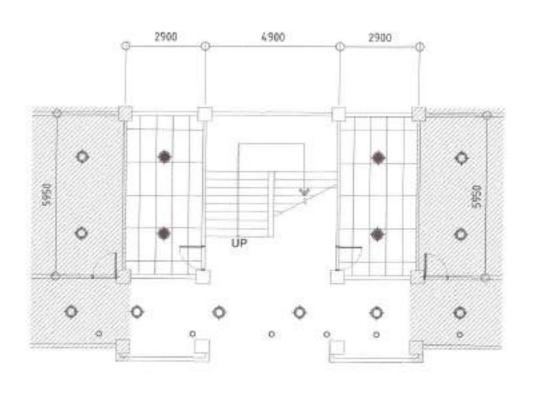
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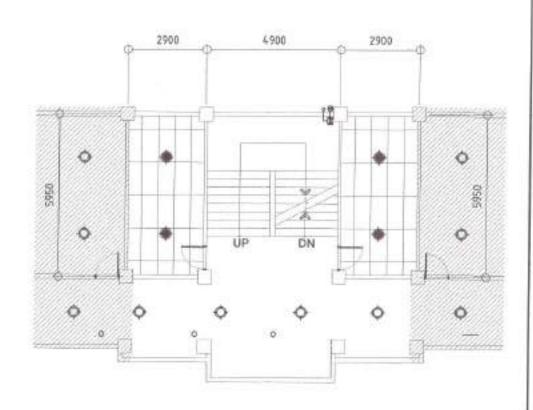
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NOTE:

PROPOSED SYNT THICK MOISTURE RESISTANT GYPSUMB BOARD INCLUDING METAL FRAMING NOTE:

. PROPOSED 6rem THICK MOISTURE RESISTANT GYPSUME BOARD INCLUDING METAL FRAMING

GROUND FLOOR REFLECTED CEILING PLAN (MATHAY BUILDING)

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SECOND FLOOR REFLECTED CEILING PLAN (MATHAY BUILDING)

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PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING CITY ENGINEERING DEPARTMENT OF SERVICE ENTRANCE AT PROJECT 6 **ELEMENTARY SCHOOL**

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BURNETTES BY ENGR. LEG S. CEL ROSANIQ

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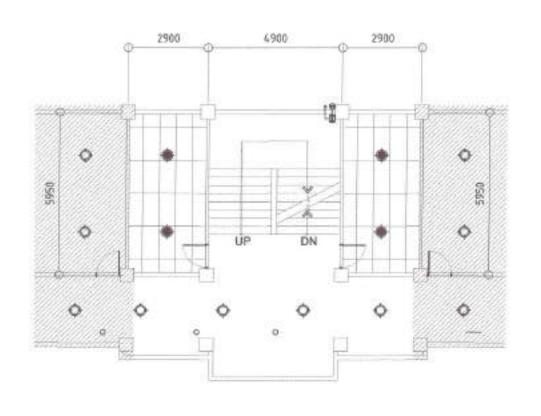
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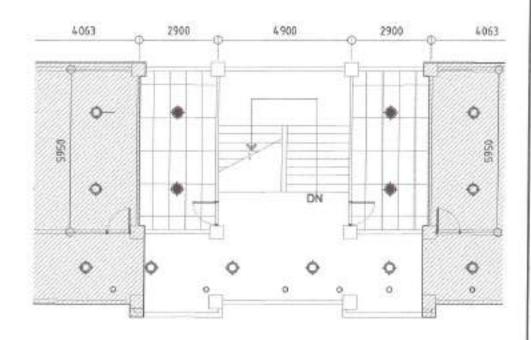
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 PROPOSED 6xxxx THICK MOISTURE RESISTANT GYPSLMB BOARD INCLUDING METAL FRAMING

THIRD FLOOR REFLECTED CEILING PLAN (MATHAY BUILDING)

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FOURTH FLOOR REFLECTED CEILING PLAN
(MATHAY BUILDING)

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PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

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GENERAL NOTES

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- 8. ALL WORKS SHALL BE SUPERHOOD BY A PROMPTIMED PROFESSIONAL RELATED TO THE ACTIVITIES INDIVI-
- 8 ALL WORKERHALL BE COORDINATED WITH THE REPRECINE TRADESTED DEVICED CONFULT STANSBURGHOUSE OF
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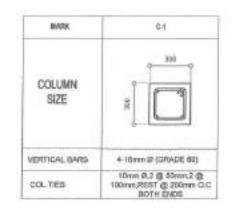
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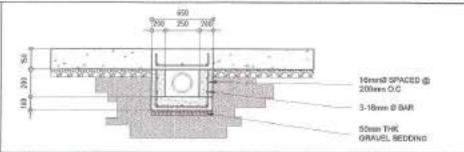
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BEAM AND SLAB SCHEDULE

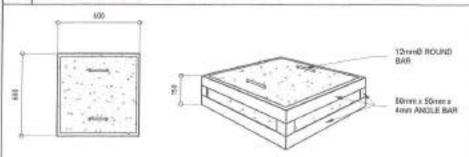
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PIPE ENCLOSURE DETAILS 4

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GENERAL NOTES

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DETAIL OF MANHOLE COVER

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PROPOSED INSTALLATION OF WEY STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 **ELEMENTARY SCHOOL**

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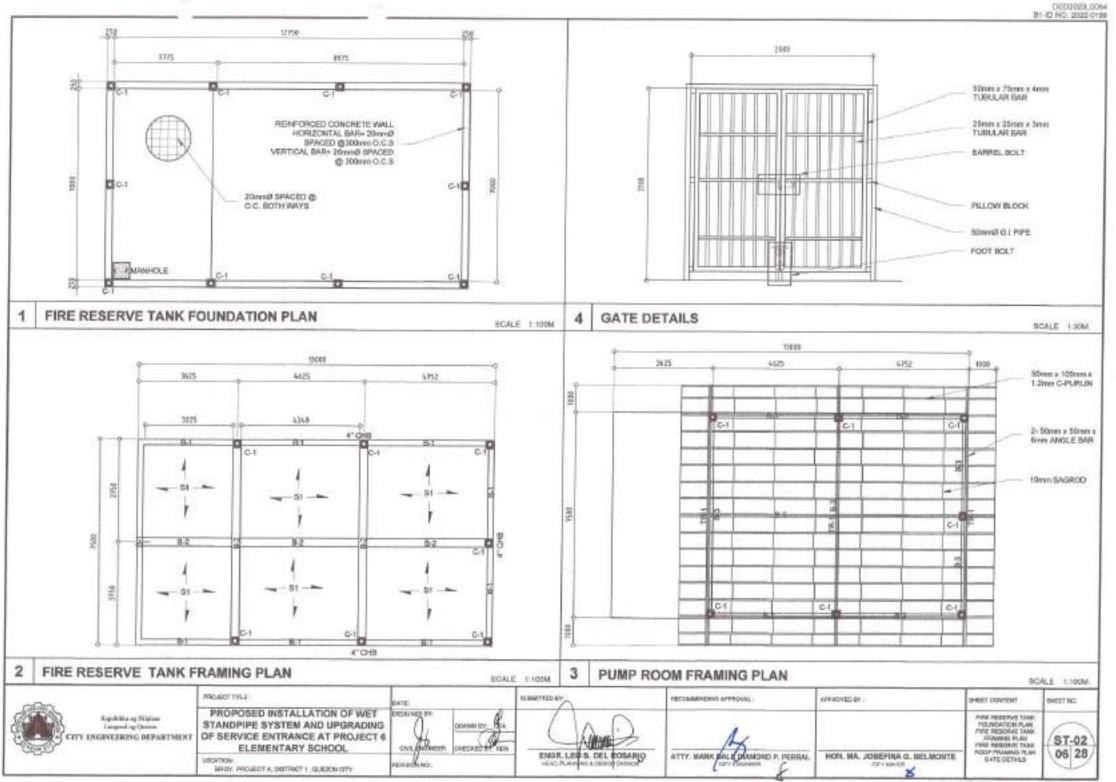
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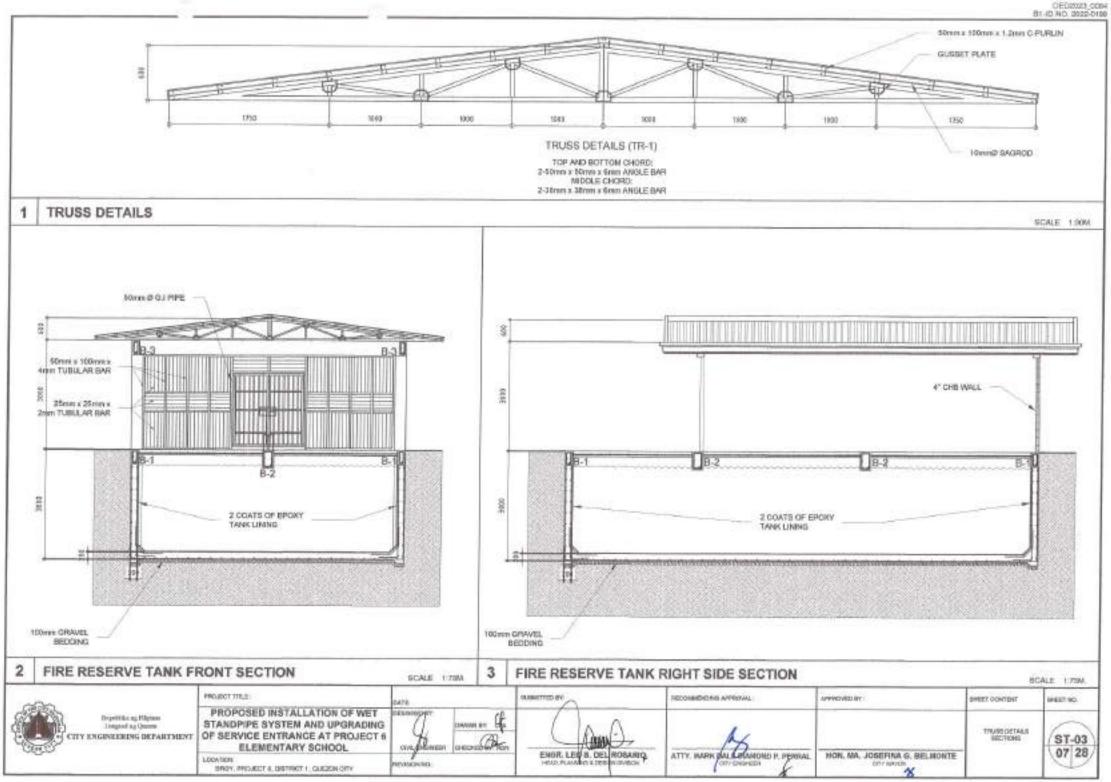
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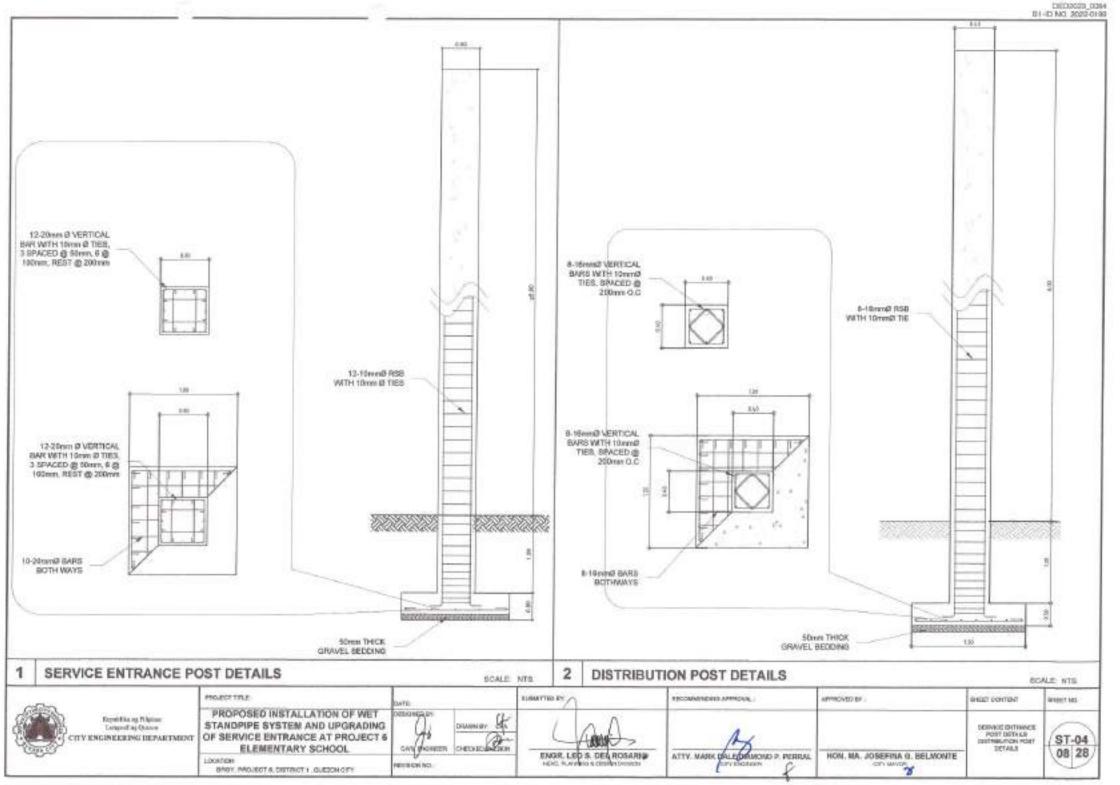
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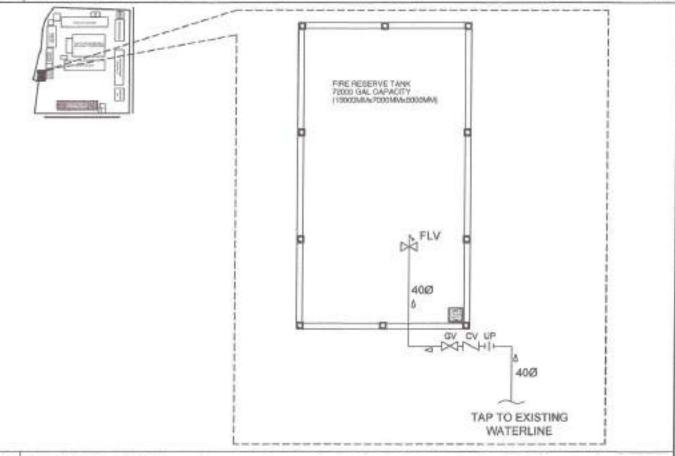


- I. ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE UNFORM PLANEING CODE OF THE PHILIPPINES. THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND DITHER RELATED LAWS AND ORDINANCES OF THIS CITY.
- 2. ALL WORKS SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL RELATED TO THE ACTIVITIES GERKLINDERVINERS
- ALL WORKS SHALL BE DOORDHATED WITH THE RESPECTIVE TRADES SO TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES.
- A ALL RELOCKS ARTY PERMITTS SHALL BE SECURED AND TURNESHINGS TO THE CITY.
- 6. ALL DRAWINGS AND SPECIFICATIONS SHALL BE CONTRECTLY REVIEWED BY THE CONTRACTOR AND SHALL BRINGSAFELY BE INFORMED BY DISCREPANCY SESSION REPORT.
- III. ALL DIMENSIONS, ELEVATIONS AND REFERENCES AND LIKE VEHIFIED WITH THE ACTUAL CONDITION PRICH TO MISSION OF
- 7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTER.
- 8. ALL WORKS SHALL SE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATION WITH THE PRESENCE OF ALL PARTIES INVOLVE, RESULT SHALL BE DOCUMENTED PROPERLY.
- 8. ALL PIPER AND LAY-OUT ARE ONLY DIAGRAMMATIC, ACTUAL LAYOUT OF PIPER AND FITTINGS, UNLESS OTHERWISE REQUIRED, BHALL BE PROPERLY CONCRUED.
- 23. SO PIPES SHALL BE ALLOWED TO SE EMBEDDED IN STRUCTURAL MINISPER, LINUXUS DTHERROSES APPROVED.
- ALL PIPES, PITTINGS, EQUIPMENT AND FORTURE SHALL PAGE THE MINIMUM STANDARDS AS HER MATERIAL SPECIFICATION INTH THE SEAL OF APPROVAL BY THE DEPARTMENT OF TRADE AND MOUSTRY.
- ALL FIFES, FITTINGS, EQUIPMENT AND FIXTURES SHALL SE INSTALLED IN ACCORDANCE TO MANUFACTURE HIS BRECHICATION AND INSTITUCTION.
- 13. SUPPORT AND HAVISERS BHALL BE PROVIDED ACCORDINGLY.
- 14. ALL EDUPMENT & FIXTURES SHALL SE ENVIRONMENTAL PRESIDEN (SUCH AS MATER EFFICIENT FIXTURES).
- 10. WATERLINE
 - 15.1. WATERLINE INVAL BEFOR TOPE
 - 16.2. GATE VALVE SHALL BE FER TYPE OR APPROVED EDUIVALENT.
 - 19.3 WATER METER SHALL BY ANY SHAND AND ADDEPTED BY THE WATER UTULTY COMPRISES.
 - 15-4. ALL WATER PIPES EXPOSED TO WEATHER CONDITIONS HALL BE MADE OF BILL
- SE STORM DRAW
- TET. ALL STORY DISHAGE SLIPE SHILL SE WITHVEST TO 4%.
- 16.2 STORM DRAINAGE LINE SOMAIR AND BLOW SHALL BE PVC. 253MMR & ABOUT SHALL BE REINFORCED CONCRETE.
- 17. SEWERLINE
- 17.1. ALL BLOPES FOR BANETARY SHALL CONFORMA 2'S ALOPE.
- 17.2 SOIL, WASTE, & VEHT PIPE SHALL BE POLYVINYL CHLORIDG; FVC OR THE APPROVED EQUAL
- 17.3. CLEAN CRITS MUST BE PROVIDED FOR SAMPARY VERTICAL RIPES AND EACH HORSEWAY. RIPE SHALL BE PROVIDED BY A CLEAR DUT AT THE WHERE TERMINAL CAPER' CHARGE WITHOUTH AND EXERT SOM OF A STRAIGHT RIPE. CLEAR DUT CARE BY OMITTED IT THE EFFORMS LEVENTH SLIGSS THAN 15M.
- YEAR ALL DRAWINGS PROTURE SHALL BE SUPPLIED WITH ARM DEWINTE VEHICLATION.
- 18. FIXTURES
- 18.1 WATER CLOSETS SHALL BE FREE STANDING TOLLET CORRESPONDED, ROLLED FRONT BOTTOM OUTLET SERVICE VORTEX OR WIGH DOWN BOME WITH EXTENDED FREE SELF AND CLOSE COUPLED TARK WITH COVER CORPLETE WITH FITTING AND INDUSTRIBLE ACCESSIONES AND WASHE SERVICENT.
- 163. LAVATORY SHALL BE VITROUIS CHINA, WALL HUNG WITH REAR OVERFLOW POCKET HUNGER WITH WITGERAL CHINA BRACKET, COMPLETE WITH STAYBLESS STREE, LEVER TYPE HEAVY DUTY PAUCET SURRLY RIPES, PUTSAPAND DUDYING ACCESSORIES.
- 163. URBAN, SHALL BE WITNEOUS CHINA, WALL HUNG WAGH-OUT URBAN, WITH EXTENDED BHILDS AND SITEOBAL FLUSH SPESACER, CONCOUNTS WALL WANGER POCKETS, 1888 YOF SPUD COMPLETE FITTING AND MOUNTING. ACCESSIBILISING MALL DOWN MANNE. PARTITION.
- 18.4 OPIAS BARS SHALL BE PROVIDED ON ALL PWO TOLLET AND SHALL BE MADE OF TURBLAR STAINLESS STEEL PIPE. PREVIOUS WITH SAFETY CRIP AND ROUNTING FLANCE.
- 165. PLOOR DRAINS SHALL BE MADE OF STARLESS BESING THIS, MEASURING TORRING TORRING AND PROVIDED WITH DETACHABLE STARLESS STRAINER, CARABORD METAL LATH THPS.
- 188. TOLET PAPER HOLDER SHILL BE WEREOUS CHINA WALL MOUNTED, COLOR SHALL RECONDLE WITH THE ADJACENT FORTURE AND PAGING TILES.
- 18.7. SOAP HOLDER SHALL SE VITREOLIS CHINA WALL MOUNTED, COLOR SHALL RECONCILE WITH THE ADMICENT FORTURE AND PACING TILES.
- MA. FAUCET SHALL BE MADE OF STANKLESS STEEL LEVER TYPE HEAVY DUTY FOR INTERIOR USE.
- 98.9. HOSE \$488 SHALL BE MADE OF STARKLESS STREET LEVER TYPE HEAVY DUTY.
- 18.18. N/TOHEN SHIK FALICET SHIVL BE WASE OF STAINLESS STEEL LEVER TYPE HEAVY STITY GOOSE NOOK TITPE WITH COMPLETE ACCESSORIES.



LEGENDS AND SYMBOLS

SCALE NTS.



GENERAL NOTES

BCALE NTB.

WATERLINE LAYOUT

SUBJECT THEORY.

SGALE NTS.



Engeldining Nighter
Langual of Quarter
HTY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

LOGKTION: BROV. PROJECT 6, DISTRICT 1, QUEZON CITY MAN WELLEN

PRINCE NO.

CHECKET TOTAL

ENGR. LEG S. DEL ROSARIO

ATTY, MARK DIVLE WANDOND H. PERSHAL

RECOMMENDING APPROVAL

HON, MA. JOSEPINA G. BELMONTE

APPROVED BY

LINSIND AND ENVISORS WATERLING LANCAST

тиально таки

PL-01 09 28

GENERAL NOTES FOR THREE-PHASE SYSTEM

- ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE LATEST EDITION OF THE PHILIPPIPE LEDTINGAL CODE, PHILIPPINE ELECTROMOS CODE, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND OPPONANCES OF THIS CITY.
- ALL WORKS BHALL BE SUPERVISED BY A REGISTERS PROFESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTAKEN.
- ALL WORKS SHALL SE COORDINATED WITH THE RESPECTIVE TRACES SO TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES.
- A. ALL NECESSAITY PERMITS SHALL BE SECURED AND TURNED OVER TO THE CITY.
- ALL CRAWINGS AND SPECIFICATIONS SHALL SC CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL IMMEDIATELY SE INFORMED IF DISCREPANCY (ICS) FOUND HEREIN.
- ALL DIMENSIONS, FLEVATIONS AND REFERENCES, SHALL BE VERIFIED WITH THE ACTUAL CONDITION PRIOR TO EXECUTION.
- 7 BHOP CRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXPOLITION
- 8. ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATIONS WITH THE PRESENCE OF ALL PARTIES INVOLVE/ RESULTS SHALL BE DOOLMENTED PROPERLY.
- R. ALL PIPES AND LAYOUT ARE ONLY DIAGRAMMATIC, ACTUM, LAYOUT OF PIPES AND FITTINGS, UMLSSS OTHERWISE FEDURED, SHALL BE PROPERLY CONCEALED.
- 13. NO PERES SHALL BE ALLOWED TO BE EMBEDDED IN STRUCTURAL MEMBERS, UNLESS OTHERWISE APPROVED.
- 11. ALL PPES, FITTINGS, EQUIPMENT AND FIXTURES SHALL BE PISTAULED IN ACCORDANCE TO MANUFACTURE ITS SPECIFICATIONS AND INSTRUCTIONS.
- 19: BLEPORTS AND HANGERS SHALL SE PROVIDED ACCORDINGLY
- 15. ALL EQUIPMENTS AND PICTURES SHALL BE ENVIRONMENTAL PRIENDLY
- 14. INSTALLATION OF SERVICE ENTRANCE 14.1 THE TYPE OF SERVICE ENTRANCE SHALL BE THREE PHASE, THREE WIRE PLUS SHOUND, 60 HERTZ, 2007 AC DIMINAL.
- 14.2. THE SERVICE ENTRANCE EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL GOOD.

 14.3. THE MAIN OVERCURRENT PROTECTION DEVICE SHALL BE OF THERMAL MAGNETIC MICCE IN MEMA 39 WEATHERPROOF ENGLOSURE:
- 18. INSTALLATION OF LIGHTING AND POWER SYSTEM
 - 16.1. ALL LIGHTING MID COMMENIENCE CATLET CIRCUITS SHALL BE 3.6.90, MM. THENTHAN COMPET WHIE UNLESS OF THE WISE NOTED, WINNING SIZE OF WINN SHALL BE \$1.90, MM COMPET WHIE. ALL WINNS AND CIRCUITS SHALL BE COLLOR CODED AS FOLLOWS:
 - PHASE A RED
 - PHASE 8 VELLOW
 - PHASE C BLUE NELTRAL - WHITE
 - SROUND SREEN
 - ISS. ALL EVBEDDED BRANCH DIRCUTS SHALL BE PVC CONDUTS AND FOR EXPOSED INSTALLATION SHALL BE INC SUPPORTED BY DOMINIT GLAWRE EVERY 700 MILIMETERS AND/OR CONDUT HANDER SUPPORTS EVERY 1900 MILIMETERS.
 - IS.3. CONDUITS IN NO CASE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR GUARTER BENDS IN ARY ONE PLU. ALL CONDUIT BENDS SHALL SE FIELD MADE BY USING HYDRALLIC BENDERS. WINMUM SENDING RACHUS MUST BE IN ACCORDANCE TO THE COOR REQUIREMENTS.

16.4. ALL POWER CUTLETS AND SMITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 250 V.

18.4 PROVIDE GROUND FAULT CURRENT INTERPUPTER CIRCUIT BREAKENFOR LONCE MARKED FOR ON THE FLAN.

TER ALL METALLIC CONDUITS, SWITCHER, LIGHTING FIXTURES, PARELBOARDS, EQUIPMENTS AND NON-CURRENT CARRYING METAL PWRTS SHALL BE PROPERLY GROUNDED AND RODHOLD.

18.7. THE BROWND RESISTANCE SHALL NOT BE MORE THAN 5 OHMS.

18.6 ALL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

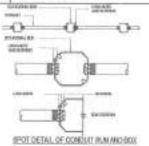
- A LIGHTING SWITCH
- 1400 MM ABOVE FLOOR FINISH - 300 MM ABOVE FLOOR FINISH
- B. CONVENIENCE CUITLET
 - ISOMM ABOVE WORKING COUNTER.
- D: PANELECARD AND CASINETS 1600 MM ABOVE FLOOR FINISH
- D. ENTINGET 150 MW/TOP OF DOOR AWAR
- E EMERGENCY LIGHT
- 2000 ABOVE FLOOR EMERGENCY
- IS 1 FULL BOXES BHALL SE WHENEVER NECESSARYTO FACULTATE WIRE FULLING EVENIF THESE ARE NOT INDICATED ON PLANS.
- ISS FOR EACH SPARE BRANCH CIRCUIT IN PANELSCARO, PROVIDE ONE SOMEDIAMETER EMPTY CONDUIT TERMINISTED TO TOXIMA COTADONAL BOX ACCVE CELLING, MIRRIAN SIZE, OF PULLIOX SHALL BE 150MM X 150MM X 100MM.
- 153 ALL OROLAT BREAKERS SHALL BE ROLT ON TYPE WITH INTERRUPTING CAPACITY AS MOSCATED IN THE PLANS. PAYELBOARDS SHALL BE GALVANIZED SHEET FOWDER CONTED GASE IN BINNALM.
- 15 A FEEDER MICHERANCH CRICALT CONDUCTIONS IN CABLE TRIVES BHALL BE GROUPED, BOXDED AND TAGGED TO INDICATE DURMLY THE ELECTRICAL CHARACTURISTICS SUCH AS CIRCUIT NUMBER AND PAINE. DESIGNATION.
- 19.5. REPER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND COCKTON OF FOUNDATION REQUESTED. AND OR SHOWN LANGER THEIR RESPECTIVE SECTIONS.
- 1954, ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE BEST GUALITY, BRAND NEW AS SPECIFICE, IT MISST BE APPROVED TYPE FOR THE PARTICULAN LOCATION AND PURPOSE INTENDED.

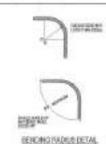
dobe.	DESCRIPTION	CODE	DESCRIPTION
Y250	3-250MW THIN COPPER WITE 1-50MW TW WARE GRO 1-60MW MC PRPE	7000	2-BOMW THEN COPPER WIFE 1-22MW TWINNES GRO 1-COMW/D SIC PIPE
27125	2 SETE OF 5-125MIP THIN COPPER WRE 1-30MIP TWIVING GRD 1-65MIP MC PPE	X00	3-00MNF THRN COPPER VERS 1-25MNF TW WIRE GRO 1-40MNR INC PIPE
F200	\$200MM* THW SOPPER WIRE (REBUL)	X30	3-30MM* THRN COPPEN WIRE 1-LOMM* TW WIRE GED 1-32MMB INC FIPE
F125	SHOOMM! THAT COPPER WIRE (AGRIAL)	X8.0	2-8 OMEP THEN COPPER WITE 1-6.5MEP TWINNE OND 1-25MIND INC PIPE
F50	3-ROBBET THAY COT PER WINE (NERIAL)		

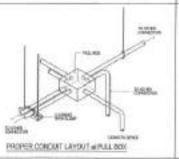
77	PROPESSO THESE WAS TREMED UP.		2-970X 1630464Y 940K
-	BREADY THE MON		3-9900L SECONDIENT MICK
7	PART YORK	@ 1	£ 90% OF 3-9900. SECONDARY MAX
8	Moroso astasunos est	(8)	DV-HE MESER
-	PROPOSED SERVICE ENTERWICE POST	=>	SCHICE OTHERS
	CHERK STEWNS DISSAME FOST		DEVINO PORT
00	costne sovos entreci sori	commission	300mm + 1200mm, 1 + 16w LGL
21	DAY GAHS STREETS	OHHBI	Troffer Type, n/ complex accessories, surface mounted type

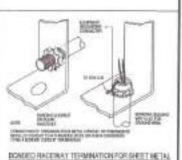
3 LEGENDS AND SYMBOLS

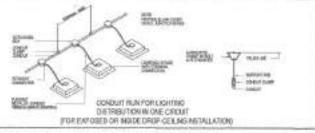
SCALE NTS











GENERAL NOTES

SCALE NTS.

2 WIRE SCHEDULE

SCALE NTS.

JANCSPRING GIB CHEMICOGE

MISCELLANEOUS DETAILS

APPROVED BY

SCALE NTS.

Republic og Phytica Lengod og Osione TITY ENGENERRING DEPARTMENT AULTORORS

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

COATION: BRIDE PROJECT & DISTRICT / QUEICON CITY SOLUTION CHARGE IN

MENDOW NO.:

ENOR LEGIS DEL ROGARIO

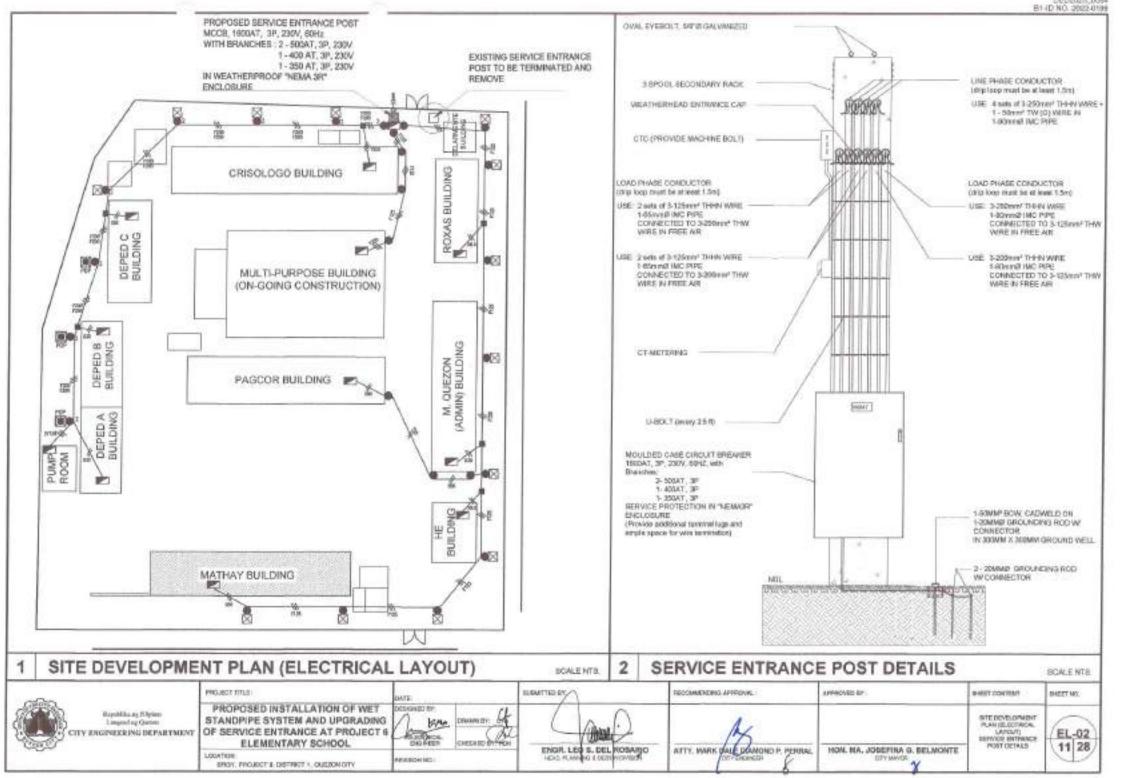
ATTY, MARK CHAPTERINGER PERSON.

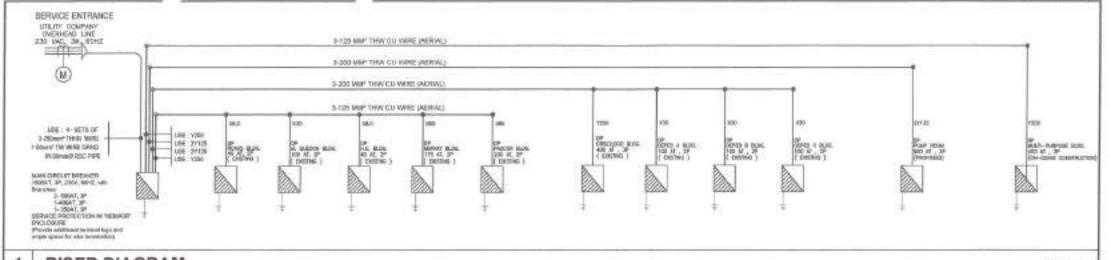
HOW MA. JOSEPHNA G. BELNONTE

GENERAL MOTES MIRE SCHEDULE LIGHTED AND EVANCUA MINOSLAMEDUR DETAILS

THITHOU TERM

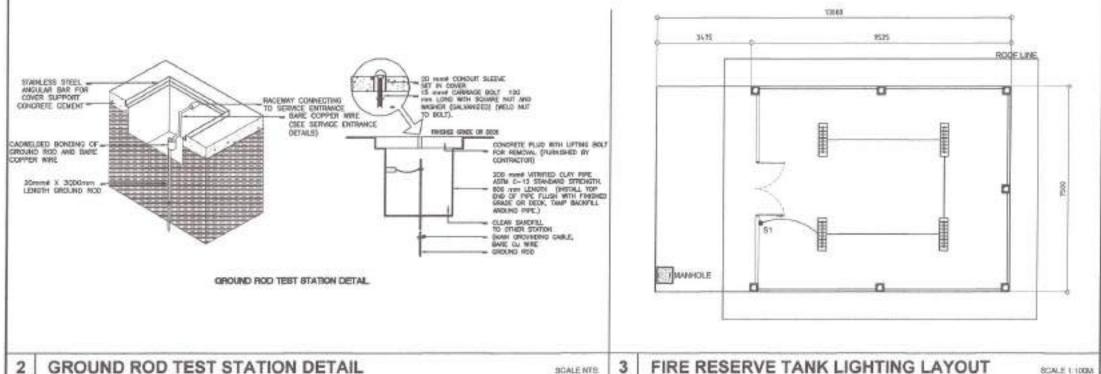
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RISER DIAGRAM

SCALE NTS



AFFROARD BY

SHOUT NO.



Republiko ng Pilipinas Longood ng Owners TYV ENGINEERING REPARTMENT

PROJECT TIME: PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 **ELEMENTARY SCHOOL**

RRGY. PROJECT 6, DISTRICT 1, QUEZON CITY

DESCRIPTION OF THE PERSON OF T DRAWN BY: CEA CHICAGO PORTOR MANUFACTURE BY ENGR. LED S. DEL ROSARIO

ATTY, MARK ON COMMOND P. PERRAL

PROCHIMENDING APPROVIL

Addition beloakted STATION DISTAIL LEHTWO LAYOUT HON, MA, JOSEFINA G. BELMONTE DETY MEDICIN

MOST CONTRACT

EL-03 12 28

Take	VOLTS	OUT	TIT	OTHER LOAD SERVICE	Ah	APERE LO	ND:	30	VOLT	CHEAT	Anna Santana
11.40	901.15	1.0		DIMER LOAD SERVICE	AB	CA	nc.	340	AMPERE	BACARER	SIZE OF WINE
1	230			FEEDER UNE 1 / FE	136.39	133.91	166.00	0.00	70680,00	350AT, 3P, MCCB	3 - 200mm ² THHN + 1 - 30mm ² TW in B0mmØ IMC
2	230			FEEDER LINE 2 / F2	141.91	103.85	103.65	130.00	113309.00	SOORT, 3P, MCCB	2 sets at 3 - \$25mim ³ TH-8-RV + 1 - 30mm ³ TW in 65mm@ 45C
3.	230			PUMP ROOM (PROPOSED)	4.35	0.00	0.00	298.80	158390.00	500A7, 38, NICCB	2 sets of 3 - 525 mm* Tr-Hhi + 1 - 30 mm* TW in 65 mm# RSC
4	130			MULTI-PURPOSE BUILDING (ON-GOING CONSTRUCTION)	72.65	71.43	78.83	190.00	04103.00	docnt, 34, n/ccs	3 - 250mm² THHN + 1 - 50mm² TW in Stimm It INC.
	-		701	TAL.	355,10	309.00	356 46	556.00	425128.00		

| = (355.30 ± 1.732) + (192.00 ± 6.25) =

1222.19 Ampanas

Feeder Une:

Use: 4 Sets of 3 - 250mm* THHN + 1 - Somm* TW (G) in Bomm® RSC

OUT NO.	VOLTS	CU	UET	OTHER LOAD SERVICE	.03	APERE LO	40	38	V017	CIRCUIT	ALTE ON LUCKE
WE SHOW	Apres	10	.00	CHER LOND SERVICE	AB	CA	BE	340	AMPERE	BREAKER	SUZE OF WIFE
1	230			ROWAS BUILDING	28.35	0,00	0.00	0.00	6520.00	40AT, JP, MCEB	2 - 8.0mm2 THMN + 1 - 5.5mm2 TW (O) in 25mm9 IMC
2	230			MI, QUEZON BUILDING	79.70	0,00	0.00	0.00	17640.00	100AT, 2P, MCCB	2 - 30mm3 THOM + 1 - 6.0mm3 TW (G) in 32mm6 MVC
3	230			H.E. BURDING	20.15	0.00	0.00	0.00	6520.00	40AT, 2F, MCCB	2 - 8. Grann [®] THHN + 1 - 5.5 mms [®] TW (GQ in 25mms) IMC
. 6	530			MATRAY BUILDING	0.00	133,91	0.00	0.00	30600,00	175AT, 29, MCCB	2 - 60mm2 THHM + 1 - 22mm2 TW (C) in 40mm8 IMC
5	230			PAGCOR BUILDING	0.00	0,00	190.00	0.00	9200.00	200AT, 2P, MCCB	2 - 80mm² THHN + 1 - 22mm² TW (G) in 50mm8 IMC
			TOTA	L	136.39	133.91	160.00	0.00	709.80.00		

i = (160 × 1.792) + (12.00 × 0.25) =

280.12 Amperes

Main Feeder:

Use: 3 - 300mm2 THHW + 1 - 30mm2 TW in 80m8 HMC

Distribution Feeder

Une: 3 - 125mm2 TWW in FREE ARE

KT NO.	VOLTS.	OUTLET	OTHER LOAD SCHULE	A)	APENE LO.	AD:	10	VOLT	CROUT	por or were
AL MIL	966.12	10 00	DISSESSED SCHAFE	.48	CA	80	10	AMPERE	BREAKER	92E OF WIRE
- 1	230		CRISOLOGO BULLDING	76.52	30,25	38,26	110.00	80380.00	400VCF, 2P, MCCB	3 - 290mm* THHN + 1 - 50mm* TW (G) in 90mm8 HVC
2	230		DEPED A	85.39	0.00	0.00	6.00	15040,00	300AY, 2P, MCCB	2 - 30mm ³ Tetrify + 1 - 6.0mm ³ TW (6) in 32mm ⁶ IMC
3	230		DEPED B	0.00	15,39	0.00	0.00	15040,00	100AT, 2P, MICCE	2 - 30mm² THHW+1 - B. Drim² TW (G) in 32mm8 HMC
1	238		DEPED C	0.00	0.00	65.39	6.00	35040.00	SOOKT, 2P, MCCB	2 - 30mm* THHN = 1 - 8.0mm* TW (6) in 32mm@ HdC

7 - (159.04 x 1.732) + (12.00 x 0.25) -

401.79 Ansperes

Main Feeder:

Use: 2 sets of 3 - 125 mm* THHR + 1 - 30 mm* TW in 65 mmg HMC

Distribution Feeder:

Use: 3 - 200mm¹ THW in FREE AIR

SCHEDULE OF LOAD

SCALE NES SHEET HO.

Expelikitury Pilpino Lawyork og Gussen

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING CITY ENGINEERING DEPARTMENT OF SERVICE ENTRANCE AT PROJECT 6. **ELEMENTARY SCHOOL**

shoy, Phoject 6, Detriet 1, Question bity

CHECKED TON SHOWER чения он но

BUILDITTED BY. ENGR. LED'S, DEL ROSARIGO

ATTY WARK ON E PUMONO P. PHYRME.

RECOMMENDING APPROVAL.

HOM, MA, JOSEFINA G. BELMONTE

APPROVED BY

SCHEDULE OF LONG. 13 28

SHREET CONTENT

	A DATE OF THE REAL PROPERTY.	LEU	TUET	WHITE CALL PROJECT	AA.	APERE LO	AD.	70	VOLT	CHCUIT	SIZE OF WIRE
NO.	VOLTS	143	0.0	OTHER LOAD SERVICE	AB	CA	. BC	100	AMPERE	BREAKER	SQS OF WIRE
1	230		240.00	PROPOSID - MATHAY	4.35	0.00	0.00	198.80	79195.00	350AT, 3P, Bolt-On	3 - 200min 1 THH H + 1 - 30mm 1 TW (G) in 80min \$ 0WC
2	230			PAGICOR (PROVISION)	0.00	0.00	0.00	100.00	79395,00	150AT, 3P, Bolt-On	3 - 200mm1 TH-RV + 1 - 10mm1 TW (G) in 80mm8 RMC
1	200			SPACE						1	
4	230			SPACE							

i = (74.83 x 1.732) + (104 x 0.25) + 110.8

332.33 Ampores

Feeder Une:

Use: Zisets of 3-125mm* THHN +1-30mm* TW (G) in 65mm# IMC

Distribution Feeder:

Use: 3 - 200mm⁴ THW in FREE AIR

KT	VOUS	100	n.et	DTHER LOAD SERVICE	AN	COLERENT	AD	385	VOLT	CROST	SUZE OF WIRE
VO.	VOLIS	10	00	DIRECTORD SERVICE	AB	CA	BC.	540	AMPERE	BREAKER	SECUTIVINE
1	230	10	1000		4.35	0,00	0.00	0.00	1000	20AT, ZP, Bolt-On	2 - 3.5mm* THHN + 1 - 2.0mm* TW (G) in 20mm@ PVC
2	230		-	TSHP - FIRE PUMP	0.00	0.00	0.00	192,00	70486	ZSOAT, 3F, Bott-On	3 - 125mm THHN + 1 - 10mm TW (G) in 65mmgt (MC
3	230			2HP - JOCKEY PUMP	0.00	0.00	0.00	5.80	2709	40AT, 3P, Bolt-On	3 - 8.0mm² (199N + 1 - 3.5mm² TW (G) in 25mmØ MC
4	230			SPACE	-	-	-	-			

i = (74.83 x 1.702) + (104 x 0.25) + 110.8

254.33 Amperes

Feeder Line:

lbe: 3 - 200mm* THHN + 1 - 30mm* TW (0) in 80mm8 IMC.

et un	VOLTS	OUT	TEL	DATHER CONDISERNICE	Ah	APERE LO	10	55	V017	CHOUT	SSECE WIRE
AT MU.	ancia	LO	60	DAMES DOND STRAKE	AB	CA	80	30	AMPERE	BREAREN	MAN OF WITH
.1	230			LPPA	43.65	42.43	A5.83	0.00	24340.00	100AT, 3P, MCCB	3 - 30mm* Tieles + 1 - 8.0mm* TW (0) in ewment IMC
2.	230 -			PPA	29.00	25.00	29.00	0.00	30010.00	TSAT, SF, MICKE	3 - 22mm* Trees + 1 - 5.0mm* TW (0) in ewment IMC
3	230			40HF - FIRE PUMP	0.00	0.00	0.00	104.00	41400	250AT, SP, MCCS	3 - 225mm* THERY + 1 - 30mm* TW (G) in 65mm# IMC
4	230			2HF - JOOKY PUMP	0.00	0.00	0.00	6.80	2709	40AT, SP, MICCE	3 - 9 Orang ³ THHN + 1 - 5 Seven ³ TW [G] in 25mmg INC
7	230			3HP - WATER PLIMP	0.00	0.00	0.00	9.60	3825	4047, 3P, Bolt: On	3 - 8.0mm* THHN + 1 - 5.5mm* TW (6) in 25mm8 (MC
. 8	230			3HP - WATER FUMP	0.00	0.00	0.00	5.60	3875	40AT, 3P, Bolt-Ov	3 - 8.0mm* Treety + 1 - 5.5mm* TW (6) in 25mm\$ (MC
. 5	230			SPACE							
. 6	230			SPACE							
-				7.000							
	TOTAL					Pt.48	24.41	130.00	64149.00		

1 × DA 83×1.7829+1304×0.25(+130.8

195.60 Amperes

Feeder Une:

Use: 1-250nm*THHN + 1-50nm*TW (G) in 10nm6 IMC

stribution Feeder:

Use: 3 - 125 reef THW in FREE AIR

SCHEDULE OF LOAD

SCALE: NTS



PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

BRIGH PROJECT & DISTRICT 1 , QUEZON CITY

SENONED BY DANNER OF SENONED BY NO

ENDR. LED B. DEL HORANDO

ATTY, MARK BALENIAMOND P. PERRAL

RECOMMENDED APPROVAL.

HON, MA. JOSEFINA G. BELMONTE

APPROVED BY:

80-1034.00°,040 EL-05

DHEET CONTENT

	WOLTS -	OU.	TLET	OTHER LOAD SERVICE	Al	APERE LO	MO DA	3Ø	VOLT	CIRCUIT	SIZE OF WIRE
KT NO.	sucis.	1.0	CO	OTPER LUAD SERVICE	IIA.	CA	BC .	340	AMPERE	BREAKER	SUE OF WIRE
1	230	2.0			8.70				2000	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 3 - 2.0mm2 TW (G) in 20mm@ PVC
2	230	20				8.70	Same		2000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
-3	230	25					10.87		2500	20AT, 2P, Bolt-On	2 - 3.5mm ³ THHN + 1 - 2.0mm ³ TW (G) in 20mmpl PVC
4	230	20			8,70				2000	20AT, 29', Bolt-On	2 - 3.5mm ² ThHN + 1 - 2.0mm ² TW (0) in 20mmØ PVC
5	230		16		1	12.52			2880	20AT, 2P, Bolt-On	2 - 3.5mm ² THHN + 1 - 2.0mm ² TW (6) in 20mmØ PVC
6	230		16				12.52		2880	20AT, 2P, Boll+On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
7	230		16		12.53				2880	20AT, 2P, Boit-On	2 - 3.5mm ² THHN + 1 - 2.0mm ² TW (5) in 20mmØ PVC
8	230	1	16			12.52			2880	20AT, 2P, Bolt-On	2 - 3.5mm² TriHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
9	230			10 - ORBIT FAN		0.5000	9.39		2160	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN +1 - 2.0mm2 TW (6) in 20mm@ PVC
10	230			10 - ORBIT FAN	9.39				2160	20AT, ZP, Bolt-On	2 - 3.5mm* THHN + 1 - 2.0mm* TW (G) in 20mm@ PVC
11	230			FCU+1		4.35			1000	20AT, 2P, Bolt-On	2 - 3.5mm* THHN + 1 - 2.0mm* TW (G) in 20mmØ PVC
12	230			PCU - 2			4.35		1000	20AT, 2P, Bolt-On	2 - 3.5mm3 THHN + 1 - 2.0mm3 TW (G) in 20mm@ PVC
13	290			FCU - S	4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mm@PVC
14	230			FCU+4		4.35			1000	20AT, 2P, Bolt-On	2 - 3.5mm3 THHN + 1 - 2.0mm3 TW (G) in 20mm@ PVC
15	230			PCU - 5			4.35		1000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mm@ PVC
16	230			PCU - 6			4.35		1000	20AT, 2P, Bolt-On	2 - 3.5mm ² THHN + 1 - 2.0mm ² TW (G) in 20mm@ PVC
17	230			SPACE							
16	230			SPACE			-				
			TOTA	L	45.65	42.43	45.83		24340.00		

 $i = (45.83 \pm 1.732)$

79.37 Amperes

Feeder Line:

Use: 2 - 30mm² THHN + 3 - 8.0mm² TW (G) in 32mm@ IMC

OF MAR	VOLTS	OU	TLET	OTHER LOAD SERVICE	,AA	APERE LO	AD:	3Ø	VOLT	CIRCLAT	SIZE OF WIRE
KT NO.	vocis	LO	CO	CHER DUAD SERVICE	AB	CA	BC	30	AMPERE	BREAKER	SIZE OF WIRE
1.	230			1 - 3HP ACCU	17.00				3910	30AT, 2P, 8pR-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW (6) in 20mmØ PVC
2	230			1 - 3HP ACCU	- 6.0	17.00			3910	30AT, 2P, Bolt-On	2 - 5.5mm* THHN + 1 - 3.5mm* TW (G) in 20mm@ PVC
3	230			1 - 3HP ACCU		-	17,00		3910	30AT, 2P, Bolt-On	2 - 5.5mm2 THMN + 1 - 3.5mm2 TW (G) in 20mm@ PVC
4	230			1 - 2HP ACCU	12.00				2760	30AT, 2P, Bolt-On	2 - 5.5mm* THHN = 1 - 3.5mm* TW (G) in 20mm/0 PVC
5	230			1 - 2HP ACCU		12.00			2760	30AT, 2P, Bolt-On	2 - 5.5mm ² THHN + 1 - 3.5mm ² TW (G) in 20mm@ PVC
6	230			1 - 2HP ACCU			12.00		2760	38AT, 2P, Bolt-On	2 - 5.5mm1 THHN + 1 - 3.5mm2 TW (6) in 20mm@ PVC
7	230			SPACE			1000				
. 8	230			SPACE							
-											
	TOTAL			29.00	29.00	29.00		20010.00			

1 = (29 x 1.732) + (17 x 6.25)

PROJECT TITLS

54.48 Amperes

Feeder Line:

Use: 3 - 22mm³ THHN + 1 - 8.0mm³ TW (G) in 32mm⁴ IMC

SCHEDULE OF LOAD

SCALE NTS GHEST NO.

EL-06

15 28



PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING TTY ENGINEERING DEPARTMENT OF SERVICE ENTRANCE AT PROJECT 6 **ELEMENTARY SCHOOL**

BRGF PROJECT & DISTRICT 1, QUEZON CITY

CHECKOOO II ROM DONER! WATER NO.

SARATTED BY EVOR. LEG S. DEL ROSANO

ATTY, MARK GALDOVANORO P. PERIOL.

TECCHMENONS AFFRONS.

HON, MA. JOSEFINA G. BELMONTE

APPROVED BY

SCHEDULE OF LOAD

энеет соитем!

CE.000.L. Y	WOLTS -	500	LET	OTHER LONG SERVICE		MERELO	AD:	10	WILLI	DROAD	9/3E OF IMIRE
THE PERSON NAMED IN	MALIS.	1.0	00	DIRECTMO SERVICE	AB-	EA:	BE:	100	AMPERE	BRIGAREA	SECUTIVE
1	230	1.0			5.11				1200	20AT, 2F, Bulk-On	1 - 3.5 mm ² Trittet + 1 - 3. (Nearly TWI (S)) in 20mmg8 PVC
1	280	10			4.35				3000	38AT, 2P, Bult-On	I - 3.5 rann* THHM1 + 1 - 3.0 rann* TWI 150 in 20 rand\$ PVC
3	230			4 - CRRIT FAN	8.13				720	264Y, 2P, Bult-On	3 - 3 Search THHW + 1 - 2 Drawn TW (S) in 30 resign PAC
4	730			4 - DEBIT FAN	3.13				720	2047, 2P, Bull-Dr.	2 - 3.5mm* THHW + 3 - 2.0mm* TW (G) in 20mm@ PVC
5	230				6.26				5990	20A7, 29, 8oh-De	2 - 3. Smin/* Titteli + 1 - 3. Osem* TW (G) in 20mm@ PVC
6	230		1		8.26				1/440	35AT, 2P, Bull-De	3 - 3.5mm2 THHN + 3 - 2.0mm2 TW (G) in 20mm3 PVC

1 = 6520/290

35.35 Arrperes

Fooder Line:

Use: 2 - 8.0mm/ TRHN + 1 - 5.5mm/ TW (6) in 25min(h) WC

ST NO	VOLTS	OU	THE	OTHER LOAD SERVICE		APERE LO	AD.	38	VOLY	CHESUIT	SUIC OF WIRE
ST. POOP	WULUS.	10	60	OTHER LUND SCHOOL	28	CA	BC.	- 50	AMPERE	BREAKER	SUL OF WHE
.1	230	30	7.5		4,33				1000	SSAT, 2P, Bolt On	2 - 3. Scient' THHAV + 1 - 2. Swent' TW (Sign 20mm) PVC
. 3	330				1.86				600	20x01, 2P, Bolt-Oc.	2 - 3.5 mm² THHEV + 1 - 2.4 mm² TW (G) in 20 mm) PVC
1	390	.4			1.48				800	2082, 2P, Bolt-On	2 - 3.5 nm² THHPV + 1 - 3.4 mm² TW (G) in 20mm@ PVC
4	230	30			4.35		-		1000	20XT, 2F, Bolt-D1	2 - 3.5 mm ² 196-8V + 1 - 2.0 mm ² TW (G) in 20 mm ² PVC
5	200			4 - DRBET FAN	3.13				730	20AT, 2P, Bott-On	2 + 3.5 mm/ 1996/c + 1 - 2.5 mm/ TW (Q) in 20 mm/5 FVC
8	2.90			4 DIEBIT FAN	3.13				720	20AT, 2P, Bolt-Dn	2 - 3.5mm THHN + 1 - 2.0mm TW (0) in 20mm FVC
.7	-230		12		9.39				2360	20AT, 2F, 8pH-On	2 - 3.5mm THHH + 1 - 1.0mm TW (0) in 20mm FVC
	280		12		9.39				3160	JONT, JY, Bolt-On	2 - 3.5mm* THHM + 1 - 2.0mm* TW (6) in 20mm/6 PVC
9	280			1 - ZHP ACU	12.00				2760	30AT, 2F, 8 (t) -On	1 - 5.5mm* SHHR + 1 - 1.5mm* TW (6) in 20mm@ FVE
10	290			1 - 3HP ACU	12.00				2760	30AT, 2F; 8 of t-On	3 - 5.5mm* THHM + 1 - 3.5mm* TW (6) in 20mm@ PVC
13	290			1 - 2HF ACU	32.00				2765	BOMF, 3F; Built-On	2 - 5 Srony Thersi + 1 - 3 Srony TW (6) in 35mmß PVC
12	290			SPACE							

1 + (6400 / 290) + (12 × 0.25)

29.20 Arranies

Freder Une:

Use: 2 - 35/ver* THIRD + 3 - 8 Overy* TW (S) in \$2 min@ DMC

AT NO.	VOUTS	001	ILET.	GITHER LOAD SUTVICE	- An	WERE LO	Ab	30	VOLT	CROSS	SEE OF WIRE
MI NU	MUCES	LO	00	WINDS CONDISCHOLE	AB	EA	8C	30	AMPERE	BREAKER	SILE OF WINE
1	250	12			5.22				1300	2047, 1F, helt-On	2 - 3.5mm ² 38e8t + 1 - 1.0mm ² 1W (II) in 20mm@ PVC
2	230	10		- 100 Mariana	4.35				1000	20AT, 2P. 4olt:On	2 - 3.5mm* THists + 1 - 2.0mm* TW (5) in 20mm@ PVC
3.	230			# - DREET FAN	3.13				736	20AT, 3P, 8oh-On	2 - 3.5mm* THHH + 1 - 2.0mm* TW/G) in 20mm@ PVC
4	230			4 - DADIT FAN	3.13				720	20AT, 2F, Soit-On	2 - 3.5mm2 THRH + 1 - 2.0mm2 THV (G) in 20mm@ PVC
. 5	230				6.26				3440	20AT, 2P, 9oit-On	2 - 3 Smort Tiretti + 1 - 2 Orom? TW (G) in 20mm@ PVC
	230		- 1		6.26				1443	20AT, 2P, Bolt-On	2 - 1 Smort 756HH + 1 - 2 Drant TW (C) in 20mord PVC

1 = 6520 / 230

28.35 Ampares

Pewder Line:

Use: 2 - 8.0mm* THERR + 1 - 5.5mm* YW (0) in 25mmd MKC

1 SCHEDULE OF LOAD

BOALE NTS



over mine

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

LOCATION BROKET & DETTROT II, QUESTROTY



HEWSON NO.

OLEMETTED BY

ENOR LEGIS, DEL ROBARIO

ATTY, HARM DIGIT CAROND P. PEPRAL

RECOMMENDING APPROVAL:

HON, MA. JOSEFIMA G. BELMONTE

APPYADVED BY:

BO-BOULE OF LOVE

SHEET COMPENT

EL-07 16 28 PANEL: MATHAY BUILDING: DISTRIBUTION PANEL

MAIN: 175AT 200AF 2P, 230V MCCB

ON THE	VOLTS	QUI	LLET.	OTHER LOAD SERVICE	AN	PERE LO	AD	3Ø	VOLT	CIRCUIT	SIZE OF WIRE
and the contract of	AULIS.	1.0	CD	OTHER COMP SERVICE	AB	CA	BC	342	AMPERE	BREAKER	SICE OF WINE
1	230			LPP1	33.48				7700.00	60AT, 2P, MCCB	2 - 8.0mm ^a THHN + 1 -5.5mm ^a TW (G) in 25mmØ IMC
2	230			LPP2	33.48				7700.00	60AT, 2F, MCCB	2 - 8.0mm² THHN + 1 -5.5mm² TW (G) in 25mmØ IMC
3	230			LPP3	33.48				7700.00	60AT, 2P, MCCB	2 - 8.0mm2 THHN + 1 -5.5mm2 TW (G) in 25mmØ IMC
4	230			LPP4	33.48				7700,00	60AT, 2P, MCCB	2 - 8.0mm² THHN + 1 -5.5mm² TW (G) in 25mmØ IMC
			TOTA	d,	133.91	0.00	0.00	0.00	30800.00		

1 = 30800 / 230

133.91 Amperes

Feeder Line:

Use: 3 - 60mm1 THHN + 1 - 22mm2 TW (G) in 40mmØ IMC

PANEL: MATHAY BUILDING: LPP1, 2, 3 & 4 (TYPICAL)

MAIN: 40AT, 100AF, 2P, 230V, MCCB

KT NO.	VOLTS	OU	TLET	OTHER LOAD SERVICE	Ah	IPERE LO	AD	3Ø	VOLT	CIRCUIT	SIZE OF WIRE
CAT INC.	VOLIS	TO	CO	OTHER LUND SERVICE	AB	CA	BC	340	AMPERE	BREAKER	SIZE OF WIRE
1	230	6		Section of the second	2.61				600	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
2	230	10			4.35				1000	20AT, 2P, Bolt-On	2 - 3.Smm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
3	230	10			4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
4	230	6			2.61				600	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
5	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
6	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
7	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
8	230		4	200 50000	3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm3 THHN + 1 - 2.0mm3 TW (G) in 20mmØ PVC
9	230			4 - ORBIT FAN	3.91				900	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW [G] in 20mmØ PVC
10	230			4 - ORBIT FAN	3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
			TOTA	iL.	33.48	0.00	0.00	0.00	7700.00		

1 = 7700 / 230

33.48 Amperes

Feeder Line:

Use: 2 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 25mmØ IMC

SCHEDULE OF LOAD

BCALE NTS SHIEF AD



PROJECT TITLE PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING TTY ENGINEERING DEPARTMENT | OF SERVICE ENTRANCE AT PROJECT 6 **ELEMENTARY SCHOOL**

BRIGH, PROJECT & DISTRICT F, CUIDENIOTY

DESCRIPTION. CHICANGE CHICAGO OHEROED PACE ANY RECEIVED

BURNITHD BY ENOR LED S. DEL ROSANIO

ATTY HARR BALLY SANOND P. PERRAL

RECOMMENDING APPROVAL:

SCHOOLE OF LOAD HON, MA. JOSEFINA G. BELMONTE

THEFT CONTENT

APPROVED BY:

EL-08 17 28 PANEL: PAGCOR BUILDING: DISTRIBUTION PANEL

CALINO	VOLTS	0.01	LET	OTHER LOAD SERVICE	AN	PERE LO	AD	3Ø	VOLT	CIRCUIT	SIZE OF WIRE
CKI NO.	VUL15	LO	00	OTHER COAD SERVICE	AB	CA	BC	360	AMPERE	BREAKER	SIZE OF WINE
1	230			LPP1	40.00	39			9200.00	GOAT, 2P, MCCB	2 - 14mm² THHN + 1 -8,0mm² TW (G) in 25mmØ IMC
2	230			LPP2	40.00				9200.00	60AT, 2P, MCCB	2 - 14mm2 THHN + 1 -8,0mm2 TW (G) in 25mmØ IMC
3	230			LPP3	40.00				9200.00	60AT, 2P, MCCB	2 - 14mm² THHN + 1 -8.0mm² TW (G) in 25mmØ IMC
4	230			LPP4	40.00				9200.00	60AT, 2P, MCC8	2 - 14mm2 THHN + 1 -8,0mm2 TW (G) in 25mmØ IMC
				1,1400							
	TOTAL				160.00	0.00	0.00	0.00	36800.00		

1 = 36800 / 230

160.00 Amperes

Feeder Line:

Use: 3 - 80mm2 THHN + 1 - 22mm2 TW (G) in 50mmØ IMC

PANEL: PAGCOR BUILDING: LPP1, 2, 3 & 4 (TYPICAL)

MAIN: 60AT, 100AF, 2P, 230V, MCCB

WE NO	VOLTS	On.	TLET	OTHER LOAD SERVICE	AA	IPERE LO	AD	30	VOLT	CIRCUIT	SIZE OF WIRE
LKI NO.	VULIS	LO	CO	DITHER LOAD SERVICE	AB	CA	BC.	240	AMPERE	BREAKER	SIZE OF WINE
1	230	10	- 77		4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
2	230	6			2.61				600	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
3	230	6			2.61				600	20AT, 2P, Holt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
4	230	6			2.61				600	20AT, 2P, Bolt-On	2 - 3.5mm ² THHN + 1 - 2.0mm ² TW (G) in 20mmØ PVC
5	230	10			4.35				1000	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
6	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
7	230		4		3.13				720	20AT, 2P, 8olt-On	2 - 3.5mm3 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
8	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
9	230		4		3.13				720	20AT, 2P, 8olt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
10	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm3 TW (G) in 20mmØ PVC
11	230			4 - ORBIT FAN	3,13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
12	230			6 - ORBIT FAN	4.70				1080	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2,0mm² TW (G) in 20mm@ PVC
		_	TOTA	ı	40.00	0.00	0.00	0.00	9200.00		

1 = 9200 / 230

40.00 Amperes

Feeder Line:

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

1 SCHEDULE OF LOAD

SCALE NTE



PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

ADGRESS PROJECT & DETRICT 1, QUEZON DITY

DATE

TRANSPORT

THE CONTROL OF THE

ENGR. LEG S. DEL. ROSARIO

ATTY, MARK OF ENGAGEN

RECOMMENDAG ARTHOUS,

HON, MA, JOSEFINA G, BELMONTE

APPROVED BY

EL-09 18 28

OHERT CONTRICT

TNO.	VOLTS	00	TLET	OTHER LOAD SERVICE	Ah	APERE LO	AD	305	VOLT	CIRCUIT	CITE OF WHEE
11.00	YULIS	LO	00	OTHER LOAD SERVICE	AB	CA	BC	3/0	AMPERE	BREAKER	SIZE OF WIRE
1	230			LPP1	38.26				8800.00	60AT, 2P, MCCB	2 - 14mm2 THHN + 1 -8.0mm2 TW (G) in 25mmØ IMC
2	230			LPP2		38.26			8800.00	60AT, 2P, MCCB	2 - 14mm2 THHN + 1 -8.0mm2 TW (G) in 25mm@ IMC
3	230			LPP3		LICE III	38.26		8800.00	GOAT, 2P, MCCB	2 - 14mm² THHN + 1 -8.0mm² TW (G) in 25mmØ IMC
4	230	i		LPP4	38.26				8800.00	60AT, 2P, MCCB	2 - 14mm* THHN + 1 -8.0mm* TW (G) in 25mm@ IMC
5	230			40HP - FIRE PUMP				104.00	41430	250AT, 3P, Bolt-On	3 - 125mm² THHN + 1 - 30mm² TW (G) in 65mmØ IMC
6	230			2HP - JOCKEY PUMP				6,80	2709	40AY, 3P, Bolt-On	3 - 8.0mm2 THHN + 1 - 5.5mm2 TW (G) in 25mmØ IMC
7	230			3HP - WATER PUMP				9.60	3825	40AT, 3P, Bolt-On	3 - 8.0mm ² THHN + 1 - 5.5mm ³ TW (G) in 25mmØ IMC
8	230			3HP - WATER PUMP				9.60	3825	40AY, 3P, Bolt-On	3 - 8.0mm² THHN + 1 - 5.5mm² TW (G) in 25mmØ IMC
TOTAL				76.52	38.26	38.26	130.00	86989.00			

| = (80 x 1.732) + 130 + (104 x 0.25)

288.54 Amperes

Feeder Line

Use: 3 - 250mm2 THHN + 1 - 50mm2 TW (G) in 90mm@ IMC

TNO.	VOLTS	OU	TLET	OTHER LOAD SERVICE	AA,	APERE LO	AD	3Ø	VOLT	CIRCUIT	SIZE OF WIRE
11 140.	TULIS	LO	CO	OTHER EDAD SERVICE	AB	CA	BC	290	AMPERE	BREAKER	205 OF WHILE
1	230	8			3.48	-11100			800	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
2	230	6			2.61				600	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
3	230	- 6			2.61				600	20AT, 2P, Bolt-On	2 - 3.5mm ² THHN + 1 - 2.0mm ² TW (G) in 20mm@ PVC
4	230	6			2.61				600	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
5	230	8			3.48				800	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
6	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
7	230		4		3.13				720	ZOAT, ZP, Bolt-On	2 - 3.5mm1 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
8	230		4		3,13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
9	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm1 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
10	230		4		3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mmØ PVC
11	230			4 - ORBIT FAN	3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
1.2	230			6 - ORBIT FAN	4,70				1080	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW (G) in 20mmØ PVC
			TOTA	L	38.26	0.00	0.00	0.00	8800.00		

1 = 9200 / 230

38-26 Amperes

Feeder Line:

Use: 2 - 14mm2 THHN = 1 - 8.0mm2 TW (G) in 25mm@ IMC

1 SCHEDULE OF LOAD

SCALE: N/IS



Republic of Phylon
Languel of Occor
CITY ENGINEERING DEPARTMENT

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

BRIDY, PROJECT 6, DISTRICT 1, QUEZON OITY

DATE
DESCRIPTION
D

ENSR. LES S. DEL ROBARD

ATTY MARK DALE DOWNER P. PERRAL

recountreis arttpus.

HON, MA. JOSEFINA G. BELWONTE

APPROVED BY

EL-10 19 28

INDEX CONTON

M46N: 100AT, 100AF, 2P. 230V, MCCB OUTLET AMPERE LOAD CIRCUIT VOLT **VOLTS** 345 CKT NO. OTHER LOAD SERVICE. SIZE OF WIRE LO 00 AR CA AMPERE BREAKER BC LPPS 16.35 230 3760.00 125AT, 2P, MCCB 2 - 3.5mm* THHN + 1 -2.0mm* TW (G) in 15mmØ IMC 2 230 LPP2 16.35 3750.00 100AT, 2P, MCCB 2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 15mmØ IMC 230 LPP3 16.35 3760:00 100AT, 2P, MICCB 2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 15mm@ IMC 230 LPP4 16.35 3760.00 100AT, 2P, MICCS 2 - 3.5mm1 THHN + 1 - 2.0mm1 TW (G) in 35mm@ (MC

15040.00

720

3760.00

| = 15040 / 230

TOTAL

PANEL: DEPED A BUILDING: DISTRIBUTION PANEL

65.39 Amperes

0.00

0.00 0.00

65.39

Feeder Line:

Use: 2 - 30mm9 THHN + 1 - 8.0mm9 TW (G) in 32mmØ IMC

			G: LPP1, 2, 230V, MCC	3 & 4 (TYPICAL)							
or son	T NO. VOLTS	our	TLET	OTHER LOAD COMACE	AMPERE LOAD			3Ø VGLT	CIRCUIT	2007 00 11124	
61 855	NULL S	LO	00	OTHER LOAD SERVICE	AB	CA	BC	300	AMPERE	BREAKER	SIZE OF WIRE
1	230	- 8			3.48				800	20AT, 2P, Bolt: On	2 - 3.5mm ² THHN + 1 - 2.0mm ² TW (G) in 20mm@ PVC
2	230	8			3.48				800	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm@ PVC
1	230			2 - ORBIT FAN	1.57				360	20AT, 2P, Bolt-On	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (0) in 20mm@ PVC
4	230			2 - ORBIT FAN	1,57				360	20AT, 2P, Bolt-On	2 - 3.5mm2 THHW +1 - 2.0mm2 TW (G) in 20mm@ PVC
5	230		4	227 (1000000)	3.13				720	20AT, 2P, Bolt-On	2 - 3.5mm2 THPW + 1 - 2.0mm2 TW (G) in 20mm@ PVC

1 = 3760 / 230

4

TOTAL

16.35 Amperes

0.00 0.00 0.00

3.13

16.35

Fooder Line:

230

Use: 2 - 5.5mm3 THHN + 1 - 3.5mm2 TW (G) in 25mmØ (MC

LO CO AB CA BC AMPERE BREAKER	KT NO.	VOLTS	DUTLET		OTHER LOAD SERVICE	AMPERE LOAD		40	30	VOLT	CIRCUIT	COLOLAGO
2 230 LPP2 16.35 3760.00 100AT, 2P, MCCB 2 - 3.5mm² THHW + 2 - 2.0mm²	NI PIU		LO	CO	OTHER COAD SERVICE	AB	CA	BC.	347	AMPERE	BREAKER	SIZE OF WIRE
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	230			L991	16.35	-			3760.00	125AT, 2P, MCCB	2 - 3.5mm ³ THHN + 1 -2.0mm ³ TW (G) in 15mmβ (MC
3 230 LPPS 16.35 3760.00 10067 29 MCCR 2 3 5 mm² THHK + 1 2 0mm²	2	230			(,PP2	16.35				3760.00	100AT, 2P, MCCB	2 - 3.5mm2 THHN + 1 -2.0mm2 TW (G) in 15mmØ IMC
A STANDARY S	. 3	230			LPP3	16.35				3760.00	100AT, 2P, MCCB	2 - 3.5mm3 THHN + 1 -2.0mm3 TW (G) in 15mmØ IMC
	4	230			LPP4	10.35				3760.00	100AT, 2P, MCCB	2 - 3.5mm* THHN + 1 -2.0mm* TW (G) in 15rom@ IMC
				TOTA	iL.	65.39	0.00	0.00	0.00	15040.00		

1 = 15040 / 230

65.39 Amperes

Feeder Line:

Use: 2 - 30mm2 THHN + 1 - 8.0mm2 TW (G) in 32mmd IMC

SCHEDULE OF LOAD

SCALE NYS SHEET NO.



PROJECT TITLE PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING LY ENGINEERING DEPARTMENT OF SERVICE ENTRANCE AT PROJECT 6 **ELEMENTARY SCHOOL**

BROY, PROJECT & DISTRICT 1, QUISDON DITY

BACTINGS.

REVISION NO.

OHEOLED BE SON

SUBMITTED BY ENGR. LEG S. DEL ROSARIO

HENC, PLANNING & DESIGN PRINTEDS

20AT, ZP, Bolt-On

ATTY, MARK DALE DAMOND P. PERINAL

RECOMMERCING APPROVE.

SCHEDULE OF LEAD HOW, MA. JOSEFINA G. BELMONTE WELLIN LEW

2 - 3.5mm3 THHN + 1 - 2.0mm3 TW (G) in 20mm(8 PVC

APPROVED BY:

EL-11 20 28

SHEET CONTRACT

PANEL: DEPED B BUILDING: LPP1, 2, 3 & 4 (TYPICAL) MAIN: 30AT, 100AF, 2P, 210V, MCCB **OUTLET** AMPERE LOAD CKT WOLTS OTHER LOAD SERVICE 30 SIZE OF WIRE 10 00 AB CA BC AMPERE BREAKER 230 3.48 800 20AT, 2P, Bolt-On 2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (6) in 20mm8 PVC 230 3.48 800 20AT, 2P, Bolt-On 2 - 3.5mm THHN + 1 - 2.0mm TW (6) in 20mm PVC 2 - ORBIT FAN 230 1.57 360 2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm8 PVC 20AT, 2P, Bolt-Cin 2 - DRBIT FAM 4 230 1.57 360 20AT, 2P, Bolt-Cin 2 - 3.5mm² THRW + 1 - 2.0mm² TW (G) in 20mm@ PVC 3.13 230 720 20AT, 2P, Bolt On 2 - 3.5mm² THRM + 1 - 2.0mm² TW (G) in 20mmB PVC 4 6 210 4 3.13 720 20AT, 2P, Bolt/On 2 - 3.5mm THHM + 1 - 2.0mm TW (G) in 20mmg PVC TOTAL 16.35 0.00 0.00 0.00 3760.00

1 + 3760 / 230

16.35 Amperes

Feeder Line:

Use: 2 - 5.5mm | THHN +1 - 3.5mm | TW |G| in 15mm@ IMC

CET NO.	Latter Wel	QUILET		OTHER LEIST STRUCK	AMPERE LOAD		AU	305	VOLT	CIRCUIT	ALTER AND MARKET
LATERUS.	WA.13	LD	CO	OTHER LOAD SERVICE	AB	CA	BC.	30	AMPERE	BREAKER	SIZE OF WIRE
1	230			LPP1	18.35				3760.03	325 AT, 2P, MCCB	2 - 3.5mm ³ THHN + 1 -2.0mm ² TW (G) in 35mmØ HWC
2	230			LPPZ	16.33				3769.03	300AT, 2P, MCCB	2 - 3.5mm* THHN + 1 -2.0mm* TW (G) in 15mm@ IMC
3	230			LPP3	16.35				3760.00	300AT, 2P, MCCB	2 - 3.3mm* THHW + 1 - 2.0mm* TW (G) in 15mm@ IMC
4	210			1994	26.33				3760.00	300AT, 2P, MECS	2-3.3mm1 THHR + 1-2.0mm2 TW (G) in 15mm8 IMC

1 = 25040 / 230

65.38 Amperes

Feeder Line:

Use: 2 - 30mm2 THHN +1 - 8.0mm2 TW (G) in 32mm8 IMC

CET NO. VO	VOLTS -	0.01	TEET	OTHER LOAD SERVICE	AMPERE LOAD		30	VOLT	CIRCUIT	SIZE OF WIRE	
	HOUSE	6.0	00		48	CA.	BC.	390	AMPERE	BREAKER	SIZE UT WING
1	230	8			3.48				800	20AT, 2P, Bolt-On	2 - 3.5mm1 TittiN + 1 - 2.0mm1 TW (6) in 20mm@ PVC
2	230	8		Secretary House, Co.	3.48				800	20AT, 2P, Bolt-On	2 - 3.5mm* THHN + 1 - 2.0mm* TW (C) in 20mm8 PVC
3	730	100		2 - OBBIT FAN	1.57				360	20AT, 2F, 8olt-On	2 - 3.5mm1 THHW + 1 - 2,0mm1 TW (6) in 20 mm6 PW
4	230			2 - ORBIT FAN	1.57	-			360	ZDAT, ZP, Bolt-On	2 - 3.5mm² Trtttki = 1 - 2.0mm² TW (G) in 20meg8 PVC
5	230		4		3.13				720	20AT, 2P, 8ob-On	2 - 3.5mm² THHN = 1 - 2.0mm² TW (G) in 20mm0 PVC
6	230		4		3.13				720	ZBAT, 2P, Bolt-Dn	2 - 3.5mm2 THHN + 1 - 2.0mm2 TW (G) in 20mm0 PVC

1 = 3760 / 230

15.35 Amperes

Feeder Une:

Use: 2 - 5:5mm2 THRIN + 1 - 3:5mm2 TW (QUID 15mm8 RMC

1 SCHEDULE OF LOAD

SCALE: NTS BHEET HO



PHONOUT TITLE
PROPOSED INSTALLATION OF WET
STANDPIPE SYSTEM AND UPGRADING
OF SERVICE ENTRANCE AT PROJECT 6
ELEMENTARY SCHOOL

SPOY, PROJECT & DISTRICT 1, QUESTIVETTY





	A
ATT	MARK BALEDINGSOND P. PERILAL

RECOMMERDING APPROVAL:

HON, NA. JOSEFINA G. BELMONTE

IN CENCERNA

бональког юнь ЕL-12 21 28

знієт раупалі

GENERAL NOTES

- ALL FREE PROTECTION WORKS SHALL COMFORM WITH THE LATEST EDITION OF NATIONAL PIRE PROTECTION ASSOCIATION (HEPA) CODES NO. 13 & 20
- READ THE CRAININGS IN CONNECTION WITH OTHER RELATED DRAWINGS & SPECIFICATIONS. THE ARCHITECT & ENGINEER SHALL BE NOTIFIED MINEDIATELY OF ANY DISCREPANCIES FOUND THEREIN.
- THE DOWNLACTOR SHALL DETERMINE THE EXACT LOCATION OF THE SPERWLER HEADS IN COORDINATION WITH THE AGENT CERLING LEVOLT, ANY SELECATION SHALL BE SUBJECT TO ASSOCIATION & BEGINEERS APPROVAL.
- ALL DRAWN PRES FOR INSPECTIORS TEST CONNECTION DRAWN VALVES SHALL BE PIPED TO THE NEAREST WHEA DRAWN PROVIDED BY THE PLUMBING CONTRACTOR.
- PIPE SUBSIVES SHALL BE PROVIDED FOR ALL PUPES PASSING THRU SLARS, WALLS GROEPS & BEARS.
- MINDALM FIRE SIZE FOR ALL SPRINKLER HEADS SHALL BE 25mir 8 HALESS OTHERWISE MOTED.
- WORKMANSHEP THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST 8 MOST THOROLOH MANNER KNOWN TO THAVE 8 TO THE SATISFACTION OF THE ANOMITEC'S THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT / LDGAL CONSTRUCTIONS & OPERATION PERMITS & PAY ALL THE REQUIRED FEES.
- REFER TO TECHNION, SPECIFICATIONS FOR PUMPS & MIXTERIALS SPECIFICATIONS.
- MAINTAIN MINIMARM DISTANCE OF MONNI BETWEEN SPRING EN HEAD & LIGHTING FIXTURE

HOSES

- SENSORS (FLOW SMITCHER, LOW WATER LEVEL SENSOR, SUPERVISORY SWITCHER, FOR ZONE ACTIVATION SHALL BE INCLUDED IN THE CONTINUES, IMPRING FROM THOSE DEVICES TO THE SPRINKLER AMMUNICATION PAREL SHALL BE DONE BY ELECTRICAL CONTRACTOR COORDINATE INSTALLATION WITH THE AFFECTIVE TRADE CONTRACTOR.
- OPENING OF THE SPRINKLER HEND OR INSPECTORS TEST VALVE SHALL CAUSE THE OPERATION OF THE PLOW SWITCH, WHICH SHALL ACTIVATE THE ANNUNCATION LIGHT FOR THE SPRINKLER ZOWE INVOLVE AND SHALL CAUSE THE OPERATION OF THE BUILDING FIRE ALARM SIDE ALARM CONDITION.
- CLOSING OF THE NORMALLY OPEN DUPERWISED VALVE OF THE SRIVICER SYSTEM SHALL CAUSE THE SUPERVISIORY SWITCH TO OPERATE A TROUBLE ADARM IN THE BUILDING FIRE ALARM SYSTEM (TROUBLE ALARM COVID DON).
- FIRE PLANT PLANTING CONDITION OF THE FIRE PLANT CONTROL PAINEL SHALL CAUSE THE OPERATION OF THE BUILDING FIRE ALARM SYSTEM/FIRE ALARM CONDITION.
- AUTHORION OF THE LOW WATER LEWIS SWITCH IN THE STORAGE TAVE SHALL CRUSE A TROUBLE ALARM COMOTION IN THE FIRE ALARM SYSTEM.
- MBTALLATION OF THE SPRINKER BYSTEM SHALL BE IN ADCORDANCE WITH THE NEFA IS STANDARD FOR THE INSTALLATION OF SPRINKER SYSTEM.
- NON CONRECTIBLE OFFERS SHALL BE USED THIS CELLINGS WILL BE USED IN THIS FROJECT, NOTIFY THE CONSIDERATION IF SOME TENANTS WILL USE CONRECTIBLE CELLING, CONBUSTIBLE CELLINGS WILL BE ALLOWED.

BOTES

- 1. FLDGR CONTROL YALVE AT EACH FLOOR SHALL BE PROVIDED WITH A TAMPER DATTCH.
- ALL CONTROL DRAIN AND TEST CONNECTION VALVES BE PROVIDED WITH PERMANEUTLY WARKED WEATHER PROOF METAL OR RIGID PLACTIC DENTIFICATION SIGNS THE GISING SHALL BE SECURED WITH CORROSION RESISTANT WHIE CHAIN OR OTHER APPROVED MEANS.

MATERIALS SPECIFICATION.

t. PRING SYSTEM

PRICE BRALL BE SITED, SCHEDULE 46, BLACK AND ADDORDMICE WITH THE SPECIFICATIONS ASTMIA - 02-08943

FITTING SCREWED.

ALL SHALL BE MALLENRIE IRON, 900 LBN CLASS BLACK IN ACCORDANCE WITH ANGERSOS.

FLAHOUS

SHALL BE STEEL SHORT BODY, 156 LBG CLASS BLACK IN ACCORDANCE WITH 8:461

UNDO N

SHALL BE STEEL, STANDARD WEIGHT, BLACK AND IN ACCORDANCE WITH AND BYES ASTMAZSA AND AND RES STEELS.

1. VALVES

3.1. BUTTERFLY VALVE

SHALL BE FLAVIGED, IRON BODY, 175 PSI WORKING PRESSURE, WALVES SHALL BE U.

LISTED AND FM APPROVED.

APPROVED MANUFACTURER - GEW, GENTRAL KENNEGY & CHANG.

32. DRECK WALVE

SHALL BE FLANCED, SWING TYPE, IRON RODY, BROWES EAT AND DISCRING, 175 PBI

WORKING PRESSURE, UL USTED FM APPROVED.

S.S. GATE VALVE

GLOBE TYPE, BRONZE BODY, LOREWED, 175 PG FRESSURE APPROVED HAMILIACTURES CRAME CONTON, DEM.

4. FIRE HORE CABINET

INULL MOUNTED, 16 CAUGE STEEL BODY ALLIMINUM DIGOR TRUM WITH LOCK AND KEY STANDARD.

SIZE 32" x 27" x 7" AND WIT THE FOLLOWING ADDESSORES.

- 4.1 400 ADJUSTABLE FOS NOZZLE UL LISTES & FW APPROVED POMPATTAN GEN. CENTRAL.
- 42. 400 HOSE VALVE SIL LISTED & FW APPROVED POWHWITKIN, GEM, CENTRAL.
- 43 HORE RACK FOR 1997, FIVE HORE AND HACK HEVEL LOCAL WANDFACTURED.
- 44 RRE HOSE, 1 \$ 100FT, SWIGE MICKET, RUBBEN LINED HOSE WITH WAY, AND GUN TREATMENT UIL LISTED & FM APPROVED CEM.
- 4.5 FIRE EXTRIGUENCE, ARC DRY POWDER CHEMICAL, YEARS HOSE WITH WAX AND GUM TREATMENT UIL LISTED & FM APPROVED GEM, CENTRAL.

5. SPRINKLER HEADS

SHALL BE PERDENT TYPE, LPRICHT & SDEWALL POLICE BRASCS WALE HIST THREADS CHROMENS PLATED AND UL LISTED & FW APPROVED MANIFRACTURER-GEWICENTRAL.

6. ALARM CHECK VALVE

SHALL BE BUTTERFLY MAFER STYLE, FROM BODY, RUBBER SEW, AND 175 PS PRESSURE HATHOO, WALVES SHALL BE TESTED AND LISTED BY U. & FM APPROVED MANUFACTURER - COM, CENTRAL, KINNEDY

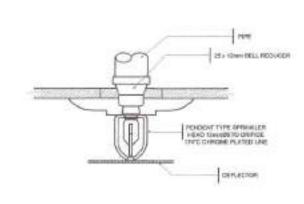
_			
	PENCENT SPEKLER HEAD	RM	ROOF WWW.CCD
0	UPRIGHT SPINILER HEAD	89	RISER MPPLE
4	SIDEWILL SPRINLER HEAD	TIC:	INSPECTOR TEST CONNECTION
William	FIRE HOSE CABINET	787	BLACKIRON PIPE
Q.	FIRE DEPARTMENT CONNECTION	CVH	CURIC METER PER HOUR
Þ#-E	PIRE HOBE WAVE	TOH	TOTAL OFRAMIC HEAD
-4×1-	BUTTERPLY VALVE WITAMPER SWITCH	0	DIAMETER
-64-	GATE WILVE / GLOSE WILVE	M	METER
-[-]-	CHECK WILVE	7711	MILLWETER
To.	OS & Y GATE WALVE	16W	KILOWATT
14-	INSPECTOR TEST CONNECTION		SIGHT GLASS
0	WET STANDPIPE RISER		FLOWWETER
P-	REDUCER	1	PRESSURE GAUGE
-	FLEXIBLE CONNECTOR		END CAP
Co-	DIRECTION OF PLOW	Z	ALARM CHECK WALVE

FL FREUNE

3 LEGENDS AND SYMBOLS

FLOOR CONTROL WALVE ASSEMBLY

SCALE NTS.



GENERAL NOTES

BOALENTS.

MATERIALS SPECIFICATIONS

SCALE NTS

RECOMMENDED APPROVIS

PENDENT TYPE SPRINKLE HEAD

AMMODRED BY

SCALE WTS

Espelikia ng Nigrino

Espekkia sp. Nipimo Longost ng Queens ITY ENGINEERING DEPARTMENT PROJECT TITLE

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT & ELEMENTARY SCHOOL

REST PROJECT & GREEN F. GARGENGET

DELINING BY

DEVISION NO.

DANSON OF

ENOR, LECIS. DEL ROSARIO

ATTY, MARK DILLE BRANCHO P. PERRAL

HON, MA, JOSEFINA G, BELMONTE BA

SENETAL NOTES MATERIALS SESSIFICATIONS LEGISLOS ENMISOLIS PENDONT THRE SERBOLISHIBAD

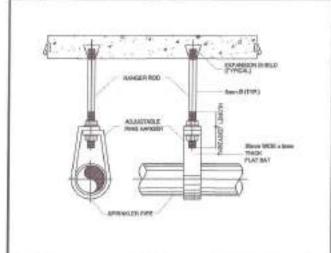
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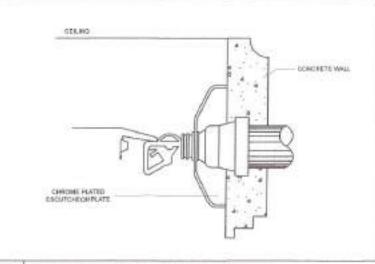
FP-01 22 28

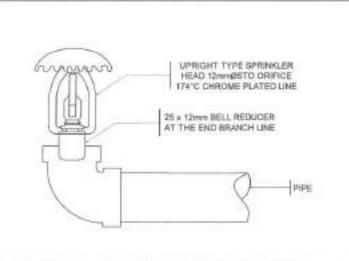
DESIGNATION	LOCATION	QUANTITY	TYPE	CAPACITY	TBH	POVER DUTPUT	POVER	REMARKS
FP 1	AT THE BACK SETWEEN SPWH SLBG AND SEPES SLBG	1	VERTICAL TURBINE	750 GPM	109 psl	75 HP	ZZGV/3PH/60HZ	PUMP SHALL BE MON UL-FM DRIVEN BY A FRANKLIN MOTOR WITH AUTOMATIC AND MANUAL MOTOR CONTROLS AND DIMER ACCESSITIES TO COMPLETE THE SYSTEM PUMP SHALL BE WATER LUBRICATES INSTALLATION SHALL COMPORM TO NEPA STANDARD.
JP 1	AT THE BACK BETWEEN DPWH BLDG AND DEPED BLDG	1	VERTICAL TURBINE	10 GPM	ieq 05	2 HP	220/3PH/60HZ	PUMP SHALL BE NOW UE-FM DRIVEN BY A FRANKLIN MOTOR WITH AUTOMATIC AND MANUAL MOTOR CONTROLS AND OTHER ACCESSORIES TO COMPLETE THE SYSTEM. INSTALLATION SHALL CONFORM TO MYPA STANDARD.

		FIRE HOSE		
FLOOR DESTINATION	UPRIGHT TYPE	PENDENT TYPE	SEDEWALL TYPE	CABINET
GROUND FLOOR	40	4	2	4.7
SECOND FLOOR	40	4	8	L.
THORD FLOOR	48	*	z	1
FOURTH FLOOR	40	4	ē	1

EQUIPMENT SCHEDULE







DETAIL OF GALVANIZED HANGER

SIDE WALL TYPE SPRINKLER HEAD

UPRIGHT TYPE SPRINKLER HEAD

APPROVED BY

CORRES	₽
Supplied to up Hipson	ı
CITY ENGINEERING DEPARTMENT	1
(2002)	L

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

BROY, PROJECT 6, DISTRICT 1, QUEZON CITY

3





ATTY, MARK GALERAMOND P. PIERRAL

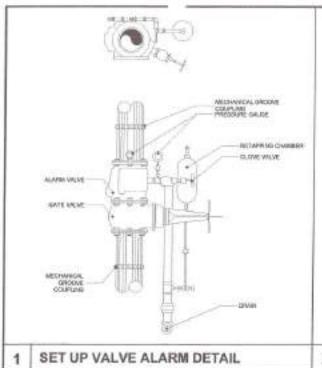
RECOMMENDING APPROVAL

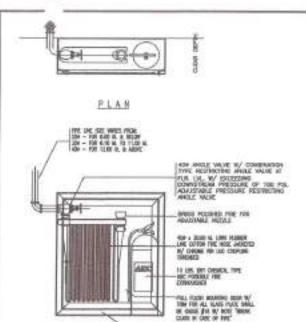
EDANIES DETAL OF SOFTW HOM, MA. JOSEFINA D. BELMONTE UPVICE

DOWNEST SCHEDUZ DETAL OF GRUNNIED NEWSFR SOFTWALL FINE DESIGNATIVE DESIGNATIVE

DOCETTICS.

THITHOG TERM





ALMERA TRA

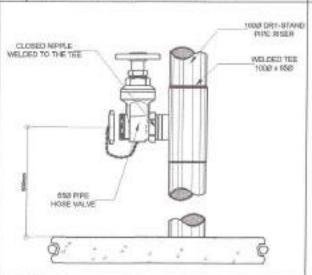
NOTES:

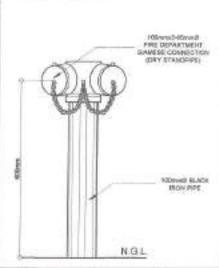
1. ALTERNATIVE CONNECTION IS THRU THE USE OF BOLIET MECHANICAL BRANCH CONNECTION SMM AR TO "MCTAULIC MECHANICAL ROSSING IS USED." RISER NIPPLE IS NOT REQUIRED.

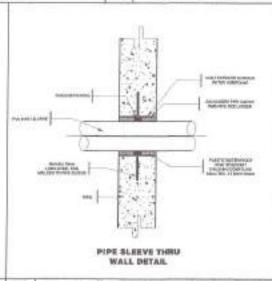
- . THE USE OF SCREWED OROSS FITTINGS IS NOT REQUIRED.
- 3. THE USE OF THREADOLET OR NELDOLET IS ACCEPPTABLE PROVIDED THAT HOLE SAW IS USED IN CUITING HOLE THRU THE CROSSMAN RIPE.

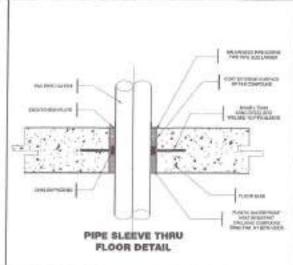
2 DETAIL OF FIRE HOSE CABINET

3 DETAIL OF FLUSHING CONNECTION









4 DETAIL OF FIRE HOSE VALVE

5 DETAIL OF SIAMESE CONNECTION

PIPE SLEEVE THRU WALL DETAIL

PIPE SLEEVE THRU FLOOR DETAIL



Dopolitic as Pilgram
Lampord og Oscon
CETY ENGENERELING BEPARTMENT

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 9-ELEMENTARY SCHOOL

BRIDY, PROJECT 6, DISTRICT 1, QUESTIN OTY

DESCRIPTION CHECKED TO PERSON OF CHECKED THE PERSON CHECKED THE PERSON



ATTY, MARK SALL DIAMOND P. PERRAL.

RECOVERED RECOVER

HON, MA. JOSEFINA G. BELMONTE

APPROVED BY

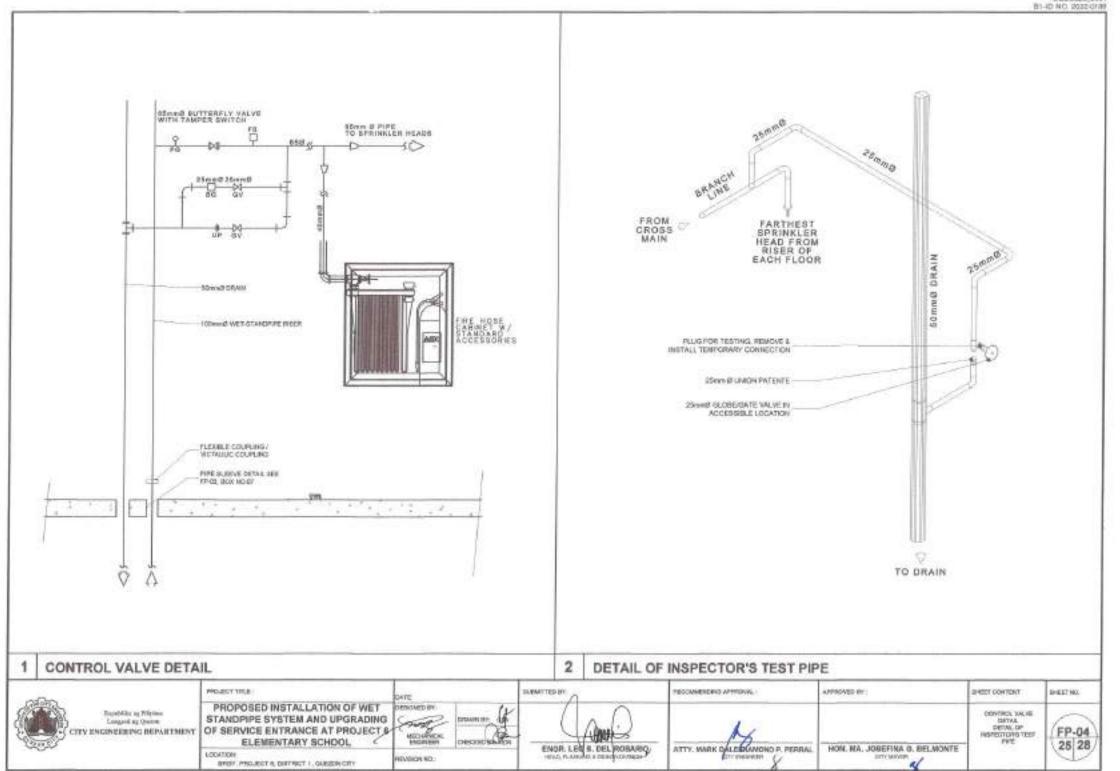
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SETTIN, 37 FIRE HODGO AGAINST
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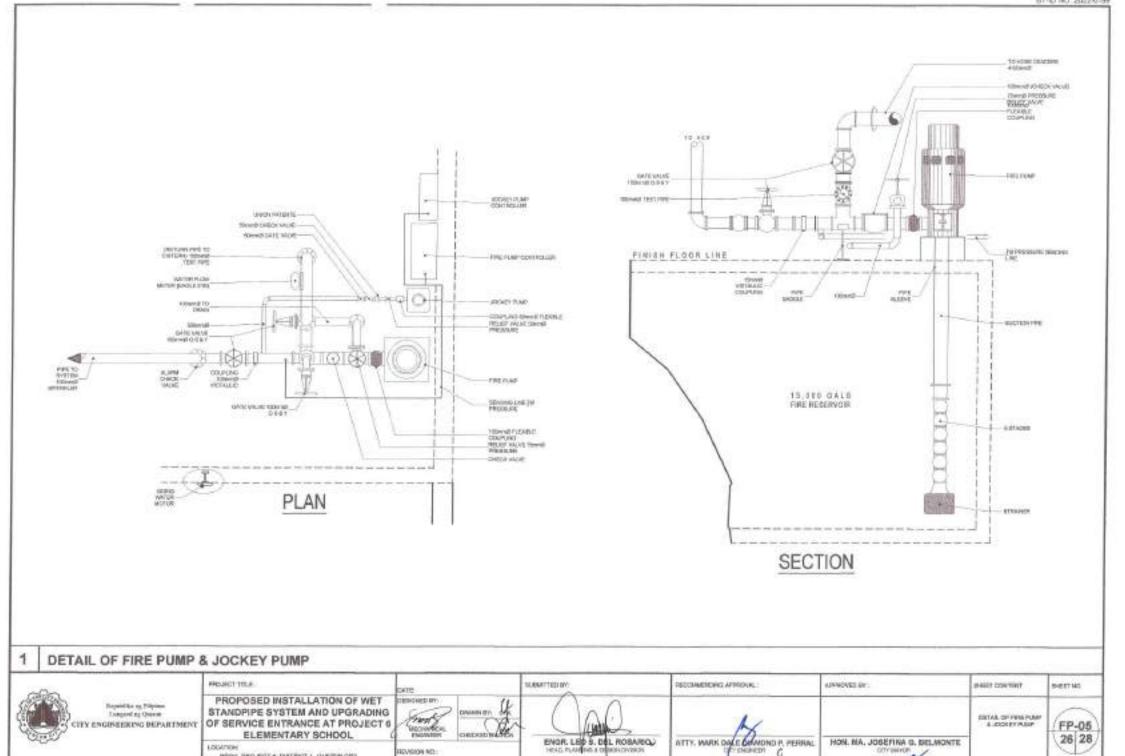
DESTRUCTIONS.

FP-03

24 28

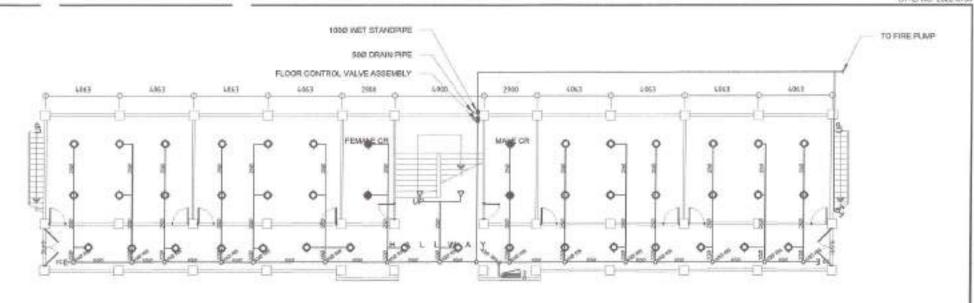
MAKEN CONTRACT





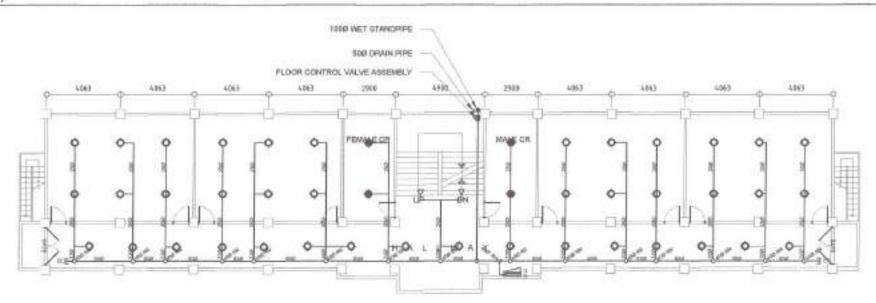
REVISION NO:

BROY, PROJECT 6; DISTRICT 1; QUESON CITY



GROUND FLOOR PLAN (MATHAY BUILDING)

90ALE 1:150M



SECOND FLOOR PLAN (MATHAY BUILDING)

BCALE 1.150M. SHEET NO.



PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING TY ENGINEERING DEPARTMENT OF SERVICE ENTRANCE AT PROJECT 6 **ELEMENTARY SCHOOL**

BROY PROJECT 6, DISTRICT 1, QUEZON DITY







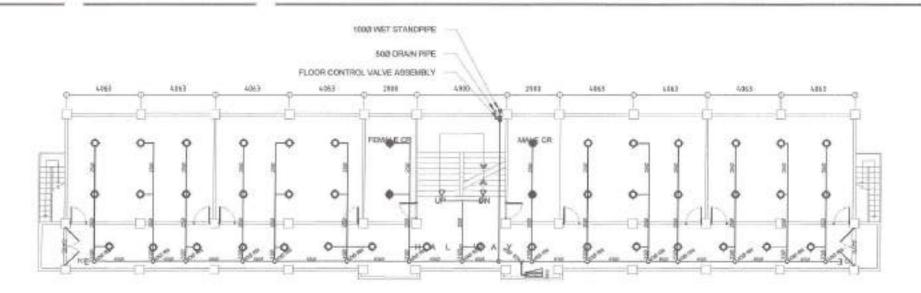
RECOMMENDING APPROVAL

HON, MA. JOSEFINA G. BELMONTE

APPROVED BY

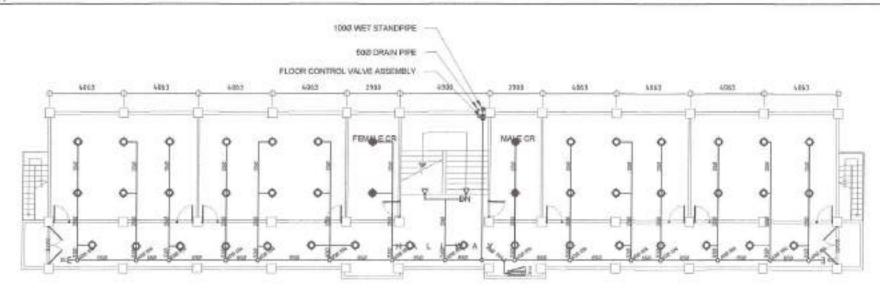
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THIRD FLOOR PLAN (MATHAY BUILDING)

BOALE 1160M



2 FOURTH FLOOR PLAN

SCALE 1:150M

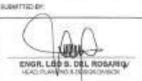
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PROJECT TRUE:
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL
ELEMENTANT GUNDUL

BROV. PROJECT 6, DATRICT 1, QUEZON OTY







RECOMMENDING APPROVIL

HOR. MA. JOSEPINA G, BELMONTE

APPROVED BY

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Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

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

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

Daywork Schedule

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

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

Provisional Sums

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

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

Signature Box

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

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

PROJECT TITLE: PROPOSED INSTALLATION OF WET STAND PIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

LOCATION : BARANGAY PROJECT 6, DISTRICT 1, QUEZON CITY

PROJECT NO. : 23 - 00159

Page 3 of 3 Bid Form

DURATION: One Hundred Twenty (120) Calendar Days

BREAKDOWN OF COST

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT	TOT	AL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST
ITEWINO.	DESCRIPTION	COST	%	VALUE	VAI	COST	TOTAL COST
PART I	OTHER GENERAL REQUIREMENTS						
PART III	CIVIL, SANITARY/PLUMBING AND ELECTRICAL WORKS						
PART A	EARTHWORKS						
PART B	PLAIN AND REINFORCED CONCRETE WORKS						
PART C	FINISHING AND OTHER CIVIL WORKS						
PART D	PIPE CULVERTS AND STORM DRAIN						
PART E	PLUMBING WORKS						
PART F	ELECTRICAL WORKS						
PART G	FIRE PROTECTION WORKS						
	TOTAL OF PART II		•				
	TOTAL						

	TOTAL C	OST ₱
LUMP SUM BID IN WORDS :		
Contractor:		

BILL OF QUANTITIES

(Building Construction/Rehabilitation Project)

PROJECT TITLE: PROPOSED INSTALLATION OF WET STAND PIPE SYSTEM AND UPGRADING OF SERVICE ENTRANCE AT PROJECT 6 ELEMENTARY SCHOOL

LOCATION : BARANGAY PROJECT 6, DISTRICT 1, QUEZON CITY

PROJECT NO. : 23 - 00159

DURATION : One Hundred Twenty (120) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
ITEM CODE		QUANTITY	UNII	DIRECT COST	OCM	PROFIT	%	VALUE	VAI	COST	TOTAL COST	UNII COST
PART I	OTHER GENERAL REQUIREMENTS											
B.5	Project Billboard / Sign Board	1	ea									
B.7(2)	Occupational Safety and Health	18	mo									
903(2)	Scaffolding	126	m^2									
	TOTAL OF PART I											
PART II	CIVIL, SANITARY/PLUMBING, ELECTRICAL WORKS AND FIRE PROTECTION WORKS											
PART A	EARTHWORKS											
803(1)b	Structure Excavation	392	m^3									
804(4)	Gravel Fill	10	m ³									
	TOTAL OF PART A											
PART B	PLAIN AND REINFORCED CONCRETE WORKS											
900	Structural Concrete Manhole (Site Mix, 3,000 psi, 28 days)	1	m^3									
900(1)c1	Structural Concrete, Pump Room (Ready Mix, 4000 psi, 28 days)	198	m ³									
902(1)a1	Reinforcing Steel, Grade 40	826	kg									
902(1)b	Reinforcing Steel, Grade 60	3,862	kg									
903(2)	Formworks and Falseworks (for one-storey building)	126	m^2									
	TOTAL OF PART B											
PART C	FINISHING AND OTHER CIVIL WORKS											
C.1 Fabricated	Materials								_			
1047(1)	Steel Structure, Gate	1	l.s.									
1047(1)	Steel Structure, Fence	674	kg									
1111(5)	Manhole	19	kg									

		_		ESTIMATED	MARK-	UP IN %	TOTA	AL MARK-UP	1	TOTAL INDIRECT		
ITEM CODE	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAT	COST	TOTAL COST	UNIT COST
C.2 Metal Struc	ctures						,,,					
1047(2)a	Structural Steel, Trusses	842	kg									
	Structural Steel, Purlins	252	kg									
	Metal Structures Accessories, Bolts	114	ea									
	Metal Structures Accessories, Sagrod	64	ea									
	Metal Structures Accessories, Gusset Plate	4	kg									
C.3 Moisture P												
1016(1)a	Waterproofing, Cement-base	197	m²									
1016(1)b	Waterproofing, Liquid	67	m²									
C.4 Masonry W	/orks											
1046(2)a1	CHB Non-Load Bearing (Including Reinforcing Steel), 100mm	79	m²									
	Cement Plaster Finish	158	m²									
	Moisture Resistant Gypsum Board, Metal Frame	147	m²									
	arnishing and other related works											
	Painting Works, Masonry/Concrete	158	m²									
	Painting Works, Steel	60	m²									
C.6 Roofing Wo												
1014(1)b2	Prepainted Metal Sheets, above 0.427mm, Rib Type, Long Span	132	m²									
1013(2)	Fabricated Metal Roofing Accessory (Ridge/Hip Rolls/Flashings/Counter Flashing/Valley Roll)	12	m									
	TOTAL OF PART C											
PART D	PIPE CULVERTS AND STORM DRAIN											
500(3)	Lined Canal	12	l.m.									
	TOTAL OF PART D											
PART E	PLUMBING WORKS											
1002 (24)	Cold Water Line	1	l.s									
	TOTAL OF PART E											
PART F	ELECTRICAL WORKS											
(-/	Conduits, Boxes & Fittings	1	l.s									
- ()	Wires and Wiring Devices	1	l.s									
- ()	Panelboard with Main and Branch Breakers	1	l.s									
1103 (1)	Lighting Fixtures and Lamps	1	l.s									
	Grounding System	1	l.s									
	Reinforced Concrete Pole (Service Entrance)	1	l.s									
	Reinforced Concrete Pole (Distribution Post)	1	l.s									
1111	Grounding Earth Pit	1	l.s									
	TOTAL OF PART F											

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED	MARK-	UP IN %	TOT	AL MARK-UP	VAT	TOTAL INDIRECT	TOTAL COST	UNIT COST
ITEM CODE	DESCRIPTION	QUANTITI	ONIT	DIRECT COST	OCM	PROFIT	%	VALUE	VAI	COST	TOTAL COST	UNIT COST
PART G	FIRE PROTECTION WORKS											
1202 (1)	Fire Protection System	1	l.s									
1202 (2)	Fire Pump with complete control and standard accessories	1	set									
1202 (3)	Jockey Pump with complete control and standard accessories	1	set									
1202 (5)	Fire Hose Cabinet	4	set									
1202	Sprinkler Head upright/pendent/side wall	184	рс									
	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

Leg	al Do	<u>cuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	(b)	and Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
	(c)	and Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; and
	(e)	Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
Tec	hnica	l Documents
	(f)	Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy); and
	(g)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy); and
	(h)	Philippine Contractors Accreditation Board (PCAB) License;
	(i)	or Special PCAB License in case of Joint Ventures; and registration for the type and cost of the contract to be bid; and Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
	(j)	or Original copy of Notarized Bid Securing Declaration; and Project Requirements, which shall include the following: a. Organizational chart for the contract to be bid;
		b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy);
		c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment

lessor/vendor for the duration of the project, as the case may be (please see attached prescribed form required by the QC - BAC for Infrastructure and Consultancy); and 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 \square • PERT-CMP □ • Construction Methods Financial Documents The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy). Class "B" Documents If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

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Other documentary requirements under RA No. 9184

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

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM	
Date : Project Identification No. :	

To: [name and address of Procuring Entity]

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

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

currently based on GPPB Resolution No. 09-2020

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

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

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

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

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

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

[Jurat]

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

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

AFFIDAVIT

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

1. [Select one, delete the other:]

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

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

2. [Select one, delete the other:]

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

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

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

6. [Select one, delete the rest:]

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

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

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

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

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

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

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

[Jurat]

[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.:
 - a. Philippine Bidding Documents (PBDs);
 - Drawings/Plans:
 - ii. Specifications;
 - iii. Bill of Quantities:
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
 - Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

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

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

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

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

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

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

for:

for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

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

NAME OF CONTRACTOR:	

PROJECT TIFLE		9220-22292	MOSE CONCRACTOR SURCONTRACTOR TO TAKE DRIVE OF MIN		TOTAL	PERCE	NTAGE				
(Name of the Contract) 8. EXACT PROJECT LOCATION	DATE OF CONTRACT	DATE OF CONTRACT PROJECT GWINER & MATURE OF MORE	INTEREST IN A 3/) and PERCENTAGE OF PARTICIPATION	VALUE AT AWARD	VALUE AT ESTIMATED		ACTUAL ACCOMPUSHMENT	PLANNED ACCOMPUSHMENT	VALUE OF OUTSTANDIN WORKS (IN PHP)		
									TOTAL AMOUNT OUTSTANDING V		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page of

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

OF CONTRACT (Php)

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page___of___

NAME OF CONTRACTOR: PROJECT TITLE:

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE SOLE CONTRACTOR, SURCONTRACTOR, PARTHNER IN A JVI and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION OF ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

	4	
Page	4.04	
- W. B. W.		

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR:		
DDOISCT TITLE		
PROJECT TITLE:		

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

Page		
1 age	OI.	

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

NAME OF CONTRACTOR:			
PROJECT TITLE:			

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

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COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

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

NOTES:

- CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.
- ** BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

)	S. S.					
			AFFI	DAVIT OF	UNDE	RTA	KING		
	1,			of	legal	age,	Filipino,	[OFFICER	OF
REPR	ESENTA	TIVE)				(1) (1) (1) (1) (1) (1) (1) (1)	2009-0008-	Name and the second	
with c	office add	ress at							after
having	been du	ly sworn	to in accord	ance with law,	hereby	volum	tary depose and	state:	
	That I a	am duly iking as	authorized revidenced by	epresentative of Secretary's C	of the _ ertificat	[Nam te and	e of Bidder Board Resolutio	to execute	this
	That _	IName	of Bidder	_bidding for t	he (Nai	ne of I	Project)		
	that the	equipme	ent to be use	tioned Project, and the key pe project until it	rsonne	I to be	assign shall exc	hereby undertak lusively be used	e and
	That I a	m execut	ing this affic	lavit to attest to chnical require	the tra	ath of t for the	the foregoing ar public bidding	d in compliance of the said projec	ct.
of	IN WE	INESS 1	HEREOF, I	have hereunt	o sign	ed my	y name below	this	day
	AFFIAN	IT FURT	HER SAYET	H NAUGHT.					
							Affiant		
	SUBSC	RIBED A	ND SWOR	N TO BEFORE	ME th	isc	day of		37
		in							
affiant	exhibit	ing to	me his/h on_	er				issued	at
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Notary Public

