

PHILIPPINE BIDDING DOCUMENTS
(As Harmonized with Development Partners)

**EXPANSION OF
WAREHOUSE
2020-27**

Government of the Republic of the Philippines

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.



Department of Health
Central Luzon Center for Health Development
MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL
P. Monroe Street, Pollacion, Mariveles, Bataan, Philippines, 2105



Trunkline: +63479354617; Office of the COH: +63476339006 mail@mmh.gov.ph mmh.gov.ph

Invitation to Bid for Expansion of Warehouse

1. The **Mariveles Mental Wellness and General Hospital**, through the **Special Appropriations Act of 2020/SAA 2020-03-399** intends to apply the sum of **Three Million Nine Hundred Ninety-Five Thousand Three Hundred Twenty-Nine Pesos and 77/100 only (P3,995,329.77)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Expansion of Warehouse/2020-27**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **Mariveles Mental Wellness and General Hospital** now invites bids for the above Procurement Project. Completion of the Works is required **One Hundred Fifty (150) Calendar Days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from **Mariveles Mental Wellness and General Hospital** and inspect the Bidding Documents at the address given below from M-F; 8am-5pm, except holidays.
5. A complete set of Bidding Documents may be acquired by interested bidders on **December 2 – 18, 2020** from given address below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Five Thousand Pesos (P 5,000.00)**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.
6. The **Mariveles Mental Wellness and General Hospital** will hold a Pre-Bid Conference on **December 9, 2020 1PM** at **MMWGH Compound, IHOMP Lobby**, and/or through video conferencing or webcasting *via Lark or Zoom*, which shall be open to prospective bidders, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below on or before **December 21, 2020 10AM**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 16**.
9. Bid opening shall be on **December 21, 2020 10AM** at the given address below and/or through *Lark or Zoom*. Bids will be opened in the presence of the bidders’ representatives who choose to attend the activity.

10. The **MMWGH** 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:

VINCENT A. ISIP

BAC Secretariat

Procurement Unit

Mariveles Mental Wellness and General Hospital

P. Monroe Street, Mariveles, Bataan

Email Address: procurement@mmh.gov.ph

Website: mmh.gov.ph

12. You may visit the following websites:

For downloading of Bidding Documents: <http://www.mmh.gov.ph/itb2020.php>

Date of Issue: December 2, 2020

Sgd.

ZORAIDA F. AFABLE, MD

Chairperson, BAC

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, **Mariveles Mental Wellness and General Hospital** invites Bids for the **Expansion of Warehouse**, with Project Identification Number **2020-27**.

[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 **2020** in the amount of **Three Million Nine Hundred Ninety-Five Thousand Three Hundred Twenty-Nine Pesos and 77/100 only (P3,995,329.77)**.

2.2. The source of funding is:

- a. NGA, the General Appropriations Act or Special Appropriations.
(SAA **2020-03-399**)

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.

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 and/or through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

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 shall be valid until **April 20, 2020**. 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.

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 7 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 16 shall be submitted for each contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. **Post Qualification**

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

21. **Signing of the Contract**

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause																						
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: General Construction																					
10.4	The key personnel must meet the required minimum years of experience set below: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Key Personnel</u></th> <th style="text-align: center;"><u>General Experience</u></th> <th style="text-align: center;"><u>Relevant Experience</u></th> </tr> </thead> <tbody> <tr> <td>Project Manager</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td>Safety Officer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td>Civil Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td>Professional Mechanical Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td>Professional Electrical Engineer</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td>General Foreman</td> <td style="text-align: center;">3 years</td> <td style="text-align: center;">1 year</td> </tr> </tbody> </table>	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>	Project Manager	3 years	1 year	Safety Officer	3 years	1 year	Civil Engineer	3 years	1 year	Professional Mechanical Engineer	3 years	1 year	Professional Electrical Engineer	3 years	1 year	General Foreman	3 years	1 year
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Civil Engineer	3 years	1 year																				
Professional Mechanical Engineer	3 years	1 year																				
Professional Electrical Engineer	3 years	1 year																				
General Foreman	3 years	1 year																				
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than <u>P79,906.60</u> , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than <u>P199,766.49</u> if bid security is in Surety Bond.																					
20	<i>List licenses and permits relevant to the Project and the corresponding law requiring it: Installer Certificate Issued by BFP.</i>																					
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.																					

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

4.1. 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.

4.2. 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	
4.1	<i>[Specify the schedule of delivery of the possession of the site to the Contractor, whether full or in part.]</i> 7 Calendar days after receiving Notice to Proceed.
7.2	<i>[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:]</i> Fifteen (15) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within 7 calendar days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is P5,000.00 .
13	The amount of the advance payment is <i>[insert amount as percentage of the contract price that shall not exceed 15% of the total contract price and schedule of payment]</i> .
15.1	The date by which "as built" drawings are required is 15 calendar days after the completion of the Project .
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 P5,000.00 .

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.

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.]

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.

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and
- (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **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;
and
- (h) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- (j) Project Requirements, which shall include the following:
 - a. Organizational chart for the contract to be bid;
 - b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
 - 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; **and**
- (k) Original duly signed Omnibus Sworn Statement (OSS);

and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (l) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- (n) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence; **or** duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- (o) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

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

Note: Any missing document in the above-mentioned checklist is a ground for outright rejection of the bid.



Republic of the Philippines
 Department of Health
MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL
 P. Monroe St., Poblacion, Mariveles, Bataan

PROJECT TITLE : EXPANSION OF WAREHOUSE
 LOCATION : MMH Compound, Mariveles, BATAAN

BILL OF QUANTITIES

ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICE (WORDS-PHP)	AMOUNT (WORDS-PHP)
I	EARTHWORKS Embankment Gravel Bedding Selected Borrow	294.60 174.94 22.00 175.00	cu.m. cu.m cu. m. cu. m.		
II	REINFORCING STEEL BAR 16mmØ RSB 12mmØ RSB 10mmØ RSB Tie wire # 16	5,245.74 3,645.18 95.90 1,426.66 78.00	kgs. kgs kgs kgs kgs		
III	SCAFFOLDINGS AND FORMWORKS FORMS 1/2" Phenolic Board 2x3x12 Coco Lumber 2x2x12 Coco Lumber CWN Assorted SCAFFOLDING 2x3x12 Coco Lumber 2x2x12 Good Lumber CWN Assorted	459.71 42.00 660.00 2,796.00 87.00 1,122.00 516.00 41.00	sq.m. pcs bdft bdft kg bdft bdft kg		
IV	CONCRETE WORKS Portland cement Gravel Sand	70.87 497.00 71.00 36.00	cu.m. bags cu.m. cu.m.		
V	MASONRY WORKS 5" CHB Portland cement Washed Sand RSB 10mmØ Tie wire # 16	600.88 7,587.00 462.00 49.00 987.90 15.00	sq.m. pcs. bags cu.m. kgs. kgs.		

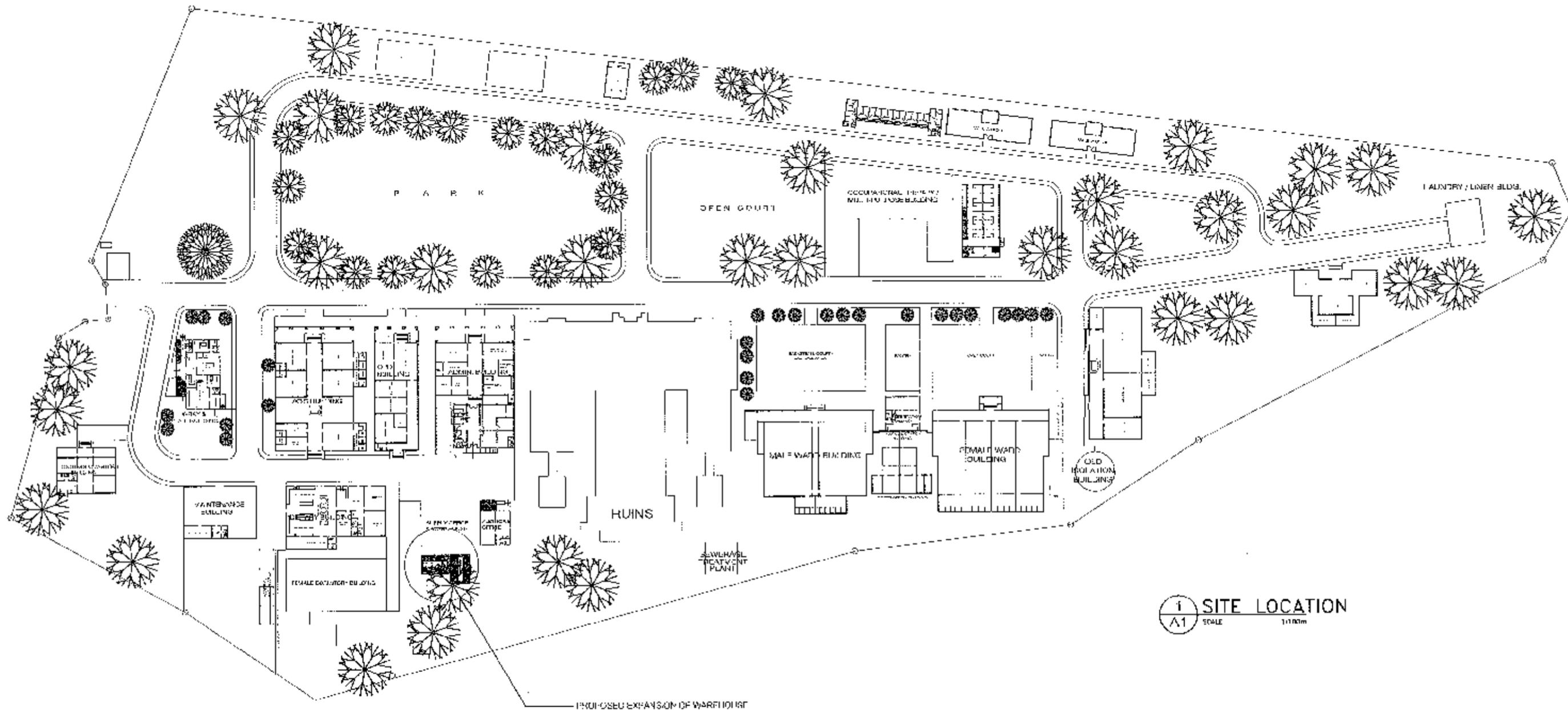
VI	TILE WORKS 30X30 Unglazed Ceramic Tiles 30X30 Glazed Ceramic Tiles 10' Tile Trim Portland Cement Washed Sand Tile Grout Tile Adhesive Tile Cutting Disc	28.20 96.00 223.00 3.00 6.00 1.00 8.00 5.00 1.00	sq.m. pcs pcs pcs bags cu.m bags bags pcs		
VII	STEEL WORKS ROOF TRUSS 50x50x6mm Angle Bar 38x38x5mm Angle Bar 50x150x2.0mm Purlins Welding Rod STAIR AND CR GRAB RAIL 50mm Stainless Steel (1.5mm) Welding Rod (Stainless)	4,506.25 48.00 52.00 110.00 16.00 15.00 8.00	kgs pcs. pcs. pcs. kgs pcs. kgs		
VIII	CARPENTRY & JOINERY WORKS Ceiling 1/4" Cement Fiber Board Double Furring 0.60mmTHK Carrying Channel 0.80mmTHK Wall Angle 0.60mmTHK W-Clip Blind Rivets Concrete Nail	86.28 30.00 44.00 31.00 397.00 23.00 6.00 3.00	sq.m. pcs pcs pcs pcs pcs box kgs		
IX	PAINTING WORKS Epoxy Primer Paint Thinner Roller Brush 7" with tray Paint Brush 4" Paint Brush 2" Sand Paper	901.25 11.00 6.00 10.00 5.00 5.00 200.00	sq.m. tincan gals set pcs pcs pcs		

X	ROOFING WORKS	359.00	lm		
	0.80mm Rib-Type Color Roof	359.00	lm		
	10mm Double sided Roof Insulation	8.00	roll		
	Pre-painted Flashing(0.8mm)	35.00	pcs		
	Pre-painted Gutter (0.8mm)	14.00	pcs		
	Rivet	1,180.00	pcs		
	Tecscrow	4,400.00	pcs		
XI	FIRE PROTECTION	1.00	lot.		
	PIPES AND FITTINGS				
	40mmØ B.I. Pipe Sch. 40	7.00	pc.		
	32mmØ B.I. Pipe Sch. 40	2.00	pc.		
	25mmØ B.I. Pipe Sch. 40	18.00	pc.		
	25mmØ B.I. Tee Sch. 40	18.00	pc.		
	40mmØ x 32mmØ B.I. Tee Reducer Sch. 40	2.00	pc.		
	40mmØ x 25mmØ B.I. Tee Reducer Sch. 40	21.00	pc.		
	40mmØ Elbow 90° Sch. 40	6.00	pc.		
	25mmØ Elbow 90° Sch. 40	15.00	pc.		
	SPRINKLER HEADS, VALVES, CONNECTIONS AND OTHER ACCESSORIES				
	Gate Valve 25mmØ	1.00	pc.		
	Fire Hose Cabinet Recessed Type with complete	1.00	sets		
	Sprinkler Heads (Pendent Type with Ceiling Plate)	12.00	pc.		
	HANGERS AND SUPPORTS				
	Loop Hanger 25mmØ	26.00	pc.		
	OTHER MATERIALS				
	Expansion Bolt 3/8"	42.00	pc.		
	Threaded Rod (Continious) 3/8"	21.00	pc.		
	Hexagonal nut 3/8" with washer	120.00	pc.		
	Teflon Tape 3/4"	140.00	pc.		
	U-bolt 1/4" x 4" with Nut and Washer	2.00	pc.		
	U-bolt 1/4" X 3" with Nut and Washer	2.00	pc.		
	Angle Bar 1 1/2" x 1 1/2" x 1/8" thk	2.00	pc.		
	PUMPS AND CONTROLLER				
	Fire Pump (Vertical Turbine)	1.00	set		
	-Vertical Turbine Pump shall be complete with discharge head assembly, air release, pressure gauge, coupled to an electric motor with WPI enclosure 445TP frame & other standard accesories. Fire pump shall be connected load to emergency generator.				
	- 500 gpm, 3650 rpm, 20 HP, 230 V, 3 PH, 60 Hz				
	Fire Pump Controller				
	- 230 V, 3 PH, 60 Hz				
	Jockey Pump (Submersible Pump)	1.00	set		
	- Submersible Centrifugal Pump, electric driven motor, complete with standard accessories, UL/FM approved, Jockey pump shall be connected load to the emergency generator, enclosure shall be as per manufacturer's recommendation.				

	<p>- 50 gpm, 3650 rpm, 2.5 HP, 230 V, 3 Ph, 60 Hz Jockey Pump Controller</p> <p>- Jockey Pump controller shall include the circuit breaker, over load relay, pressure switch, running period timer, all NEMA type enclosure, pressure recorder, power on pilot lights and other accessories, UL/FM approved.</p> <p>- 230 V, 3 PH, 60 Hz</p>				
XII	DOORS AND WINDOWS	1.00	lot.		
	Doors with complete assesories and locksets (see plans)	1.00	lot		
	Windows with complete assesories and locksets (see plans)	1.00	lot		
XIII	PLUMBING WORKS	1.00	lot.		
	STORM DRAINAGE				
	Strainer	8.00	units		
	4" PVC Pipe	12.00	pcs		
	4" PVC Elbow 90	24.00	pcs		
	6" PVC Pipe	9.00	pcs		
	SANITARY				
	4" PVC C.O.	6.00	pcs		
	4" PVC Pipe	4.00	pcs		
	4" PVC Wye	4.00	pcs		
	4" PVC Coupling	1.00	pcs		
	4" PVC Elbow 90	5.00	pcs		
	4" PVC Elbow 135	5.00	pcs		
	Teflon Tape	5.00	pcs		
	PVC Solvent	2.00	li		
	2" PVC Pipe	3.00	pcs		
	2" PVC Wye	3.00	pcs		
	2" PVC Coupling	1.00	pcs		
	2" PVC Elbow 90	3.00	pcs		
	WATER SUPPLY				
	Gate Valve	1.00	unit		
	Check Valve	1.00	unit		
	Water Meter	1.00	unit		
	3/4"Ø PPR Pipe PN 20	3.00	pcs		
	3/4"Ø PPR Tee PN 20	6.00	pcs		
	3/4"Ø PPR Elbow PN 20	6.00	pcs		
	3/4"Ø PPR Coupling PN 20	2.00	pcs		
	FITTINGS				
	2" P-Trap	3.00	pcs		
	2" PVC Tee	3.00	pcs		
	2" PVC Pipe	6.00	pcs		
	2"-4" PVC Wye Enlarger	3.00	pcs		
	2" PVC Elbow 135	3.00	pcs		
	4" P-Trap	1.00	pcs		
	4" PVC Tee	1.00	pcs		
	2"-4" PVC Tee Reducer	1.00	pcs		

Total Bid Amount in figures: _____

CONTRACTOR/ BIDDER



1 SITE LOCATION
 A1 SCALE 1:100m

PROPOSED EXPANSION OF WAREHOUSE

LOAD SCHEDULE

CIRCUIT NO	LOAD DESCRIPTION	VOLT	PHASE	TOTAL VA LOAD	Ampere Load / Phase			Circuit Breaker Rating			Size and Number		
					AB	BC	CA	POL.	AT	AF	CONDUCTOR	CONDUIT	
1	LIGHTING 1	230	1Ø	1700			7.39		2P	20	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
2	LIGHTING 2	230	1Ø	1500	6.52				2P	20	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
3	LIGHTING 3	230	1Ø	2000	8.70				2P	20	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
4	LIGHTING 4	230	1Ø	1200		5.22			2P	20	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
5	LIGHTING 5	230	1Ø	1200		5.22			2P	20	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
6	CO 1	230	1Ø	1600			6.90		2P	20	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
7	CO 2	230	1Ø	1000			4.35		2P	30	50	2 - 5.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
8	CO 3	230	1Ø	2600		11.30			2P	30	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
9	CO 4	230	1Ø	1200	5.22				2P	30	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	20 mm Ø PVC
10	CO 5	230	1Ø	1200	5.22				2P	30	50	2 - 3.5 mm ² THHN 1 - 2.0 mm ² TW (G)	25 mm Ø PVC
11	ACU 1	230	1Ø	2760	12				2P	30	50	2 - 5.5 mm ² THHN 1 - 2.0 mm ² TW (G)	25 mm Ø PVC
12	ACU 2	230	1Ø	2760	12				2P	30	50	2 - 5.5 mm ² THHN 1 - 2.0 mm ² TW (G)	25 mm Ø PVC
13	ACU 3 (2TR)	230	1Ø	7032		30.57			2P	40	50	2 - 8.0 mm ² THHN 1 - 2.0 mm ² TW (G)	25 mm Ø PVC
14	ACU 4 (2TR)	230	1Ø	7032			30.57		2P	40	50	2 - 8.0 mm ² THHN 1 - 2.0 mm ² TW (G)	25 mm Ø PVC
15	SPARE	230	1Ø						2P	30	50		
16	SPARE	230	1Ø						2P	30	50		
	TOTAL	230	3Ø	34784	49.65	52.31	49.27		3P	150	175	3 - 30mm ² THHN 1 - 8mm ² TW (G)	32mm Ø EMT

DESIGN COMPUTATION

Feeder Conductor

$I = 1.732 (52.31) + .25 (30.57) = 98.24 \text{ A}$

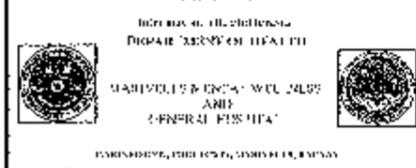
Over current protection

$I = 1.732 (52.31) + 1.50(30.57) = 136.45 \text{ A}$

Use: 3 - 30mm² THHN
1 - 8mm² TW (G)
32mm Ø EMT

150 AT / 175AF
240 Vac, 10KAIC
BOLT-ON, INDUSTRIAL TYPE
MCCB

1 SCHEDULE OF LOADS
E.2 SCALE



PREPARED BY: **JOHNIEL JUNE R. WILANUEVA, REE**
 REGISTERED ELECTRICAL ENGINEER
 REGISTERED NO. 10731
 DATE: _____

NOTES:
 1. All work shall conform to the latest editions of the National Electrical Code (NEC) and the Philippine Electrical Code (PEC).
 2. The designer shall be responsible for the accuracy of the data furnished and for the proper application of the code.
 3. The contractor shall be responsible for the proper installation and maintenance of the work.

CHECKED BY: **MELVIN JAN A. VARUT, CF, EEP**
 REGISTERED ELECTRICAL ENGINEER
 REGISTERED NO. 10732
 DATE: _____

PROJECT TITLE: **EXPANSION OF WAREHOUSE**
 LOCATION: **PAIGROVE ST., POBLACION, MARIKINA CITY, RIZAL**

RECOMMENDED BY: **VINCEN A. ISIP**
 REGISTERED ELECTRICAL ENGINEER
 REGISTERED NO. 10733
 DATE: _____

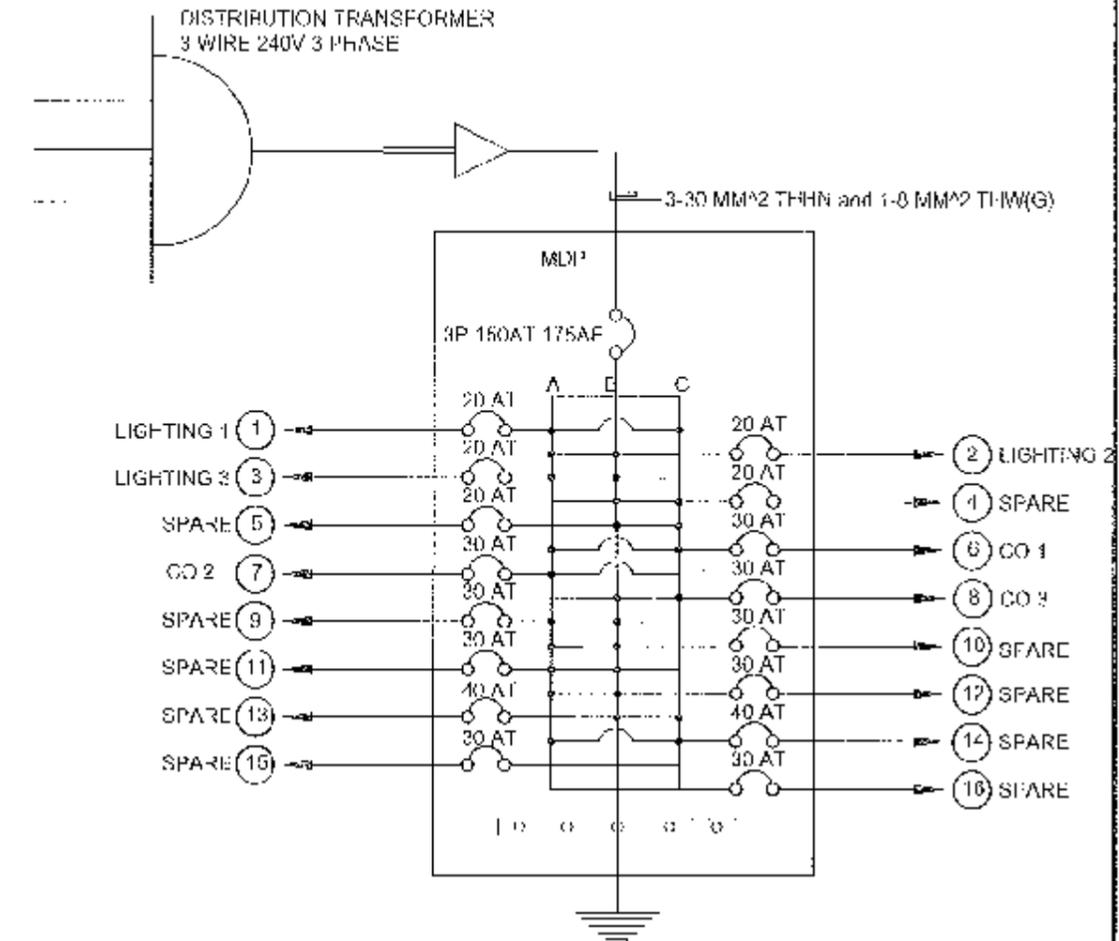
APPROVED BY: **MARIA LOURDES L. FERNANDEZ, MD, RPPA**
 CLINICAL CHIEF OF HOSPITAL II

LEGEND

SYMBOL	DESCRIPTION
	LIGHTING AND POWER PANEL
	RECESSED LIGHTING FIXTURE (1 x 18W LED TUBE)
	WALL LAMP WITH 9W LED BULB
	RECESSED FLUORESCENT LIGHTING FIXTURE (2 x 18W LED TUBE)
	3" PANEL LIGHT FIXTURE
	DOWNLIGHT CAN LED BULB 9W
	SPOTLIGHT PAR38 20W
	CONVENIENCE OUTLET
	EMERGENCY LIGHT
	RECEPTACLE WITH 9W LED BULB
	SINGLE POLE SWITCH
	2- GANG SWITCH
	3- GANG SWITCH
	3- WAY SWITCH
	AIRCON OUTLET
	WEATHERPROOF OUTLET
	EXHAUST FAN
	CONTROL PANEL

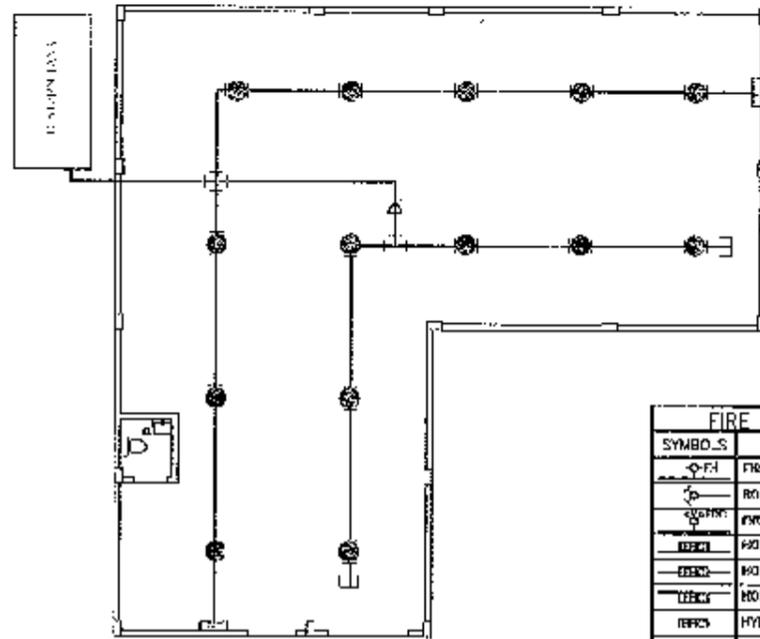
GENERAL NOTES

- ALL WORKS SHALL COMPLY WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC) AND SPECIFICATION WITH THE REQUIREMENTS AND ORDINANCE OF THE BUILDING OFFICIALS WITH JURISDICTIONS, BUREAU OF FIRE DEPARTMENT AND LOCAL POWER/ TELEPHONE COMPANY.
- UTILIZATION VOLTAGE SHALL BE 230V 3 Ø 60 Hz.
- WORKMANSHIP SHALL BE HIGHEST STANDARDS AND QUALITY. ALL MATERIALS TO BE USED FOR INSTALLATION SHALL BE NEW SUITABLE FOR THE TYPE AND PURPOSE OF APPLICATION.
- EXPOSED WIRING WORK SHALL RUN IN PANEL OR PERPENDICULAR TO THE BUILDING STRUCTURES AND FINISHES.
- GENERAL MOUNTING HEIGHT OF DEVICES AND EQUIPMENT ARE AS FOLLOWS:
 WALL SWITCHES = 1300 MM ON CENTER
 WALL RECEPTACLES = 300 MM ON CENTER
 PANEL BOARDS = 1800 MM ON CENTER
- ALL WORK SHALL BE DONE UNDER DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER/ MASTER ELECTRICIAN.



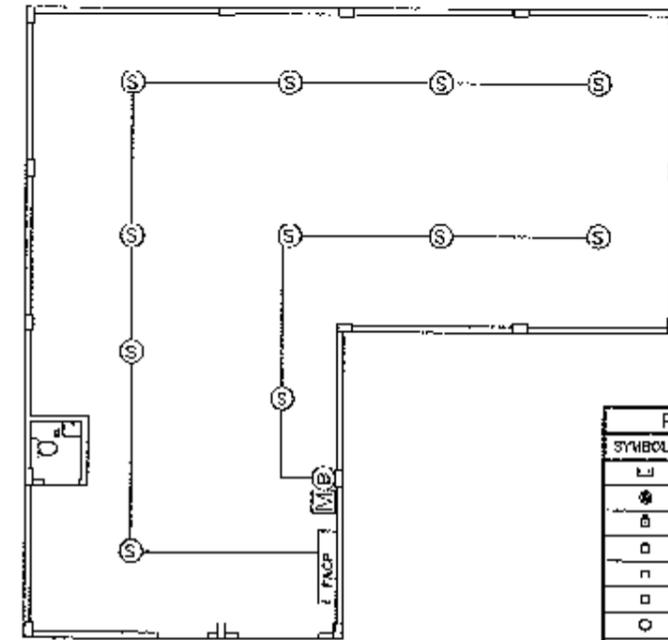
1 RISER DIAGRAM
E.1 SCALE

REFER TO ARCHITECT FOR OTHER CASES OF INSTALLATIONS.



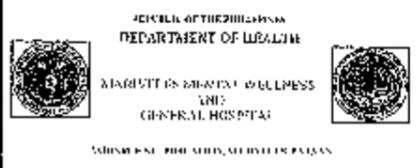
FIRE PROTECTION SYMBOLS	
SYMBOLS	DESCRIPTION
	FIRE HYDRANT
	ROOF MANIFOLD
	FIRE DEPARTMENT CONNECTION
	HOSE REEL CABINET, SURFACE MOUNT
	HOSE REEL CABINET, SEMI-RECESSED MOUNT
	HOSE REEL CABINET, RECESSED MOUNT
	HYDRANT HOSE CABINET
	ALARM VALVE WITH WATER MOTOR GONG
	ALARM VALVE (LOCKING DOWN)
	WATER MOTOR GONG
	PENDANT SPRINKLER HEAD, RECESSED TYPE
	UP-RIGHT SPRINKLER HEAD
	SIDE WALL PENDANT SPRINKLER HEAD
	CO ₂ PORTABLE EXTINGUISHER
	DRY CHEMICAL EXTINGUISHER
	AUTOMATIC ECF (HALOH 1241) EXTINGUISHER

1 GROUND FLOOR SPRINKLER LAYOUT
SCALE: M:2 1:100m



FM-200 SYSTEM SYMBOLS	
SYMBOLS	DESCRIPTION
	FM-200 CONTROL PANEL
	FM-200 GAS STORAGE CYLINDER
	FM-200 ALARM HORN/STROBE LAMP
	FM-200 ALARM BELL
	FM-200 ABORT STATION
	FM-200 MANUAL RELEASE STATION
	FM-200 SMOKE DETECTOR
	FM-200 CLEAN AGENT NOZZLE
	FM-200 CLEAN AGENT NOZZLE W/DETECTOR PLATE
	FM-200 DISCHARGE NOZZLE (180°)
	FM-200 DISCHARGE NOZZLE (360°)

2 GROUND FLOOR REFLECTED CEILING PLAN
SCALE: A:4 1:100m



PREPARED BY:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
REVISIONS:

MARCO M. LEE
MARCO M. LEE, DR.
REGISTERED PROFESSIONAL ENGINEER

DATE: 08/20/2013
PROJECT: EXPANSION OF WAREHOUSE
LOCATION: MONROE ST., MONACON, NAVAL BR. BATAAN

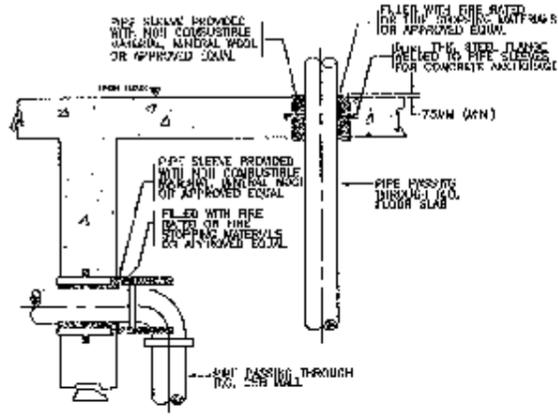
CHECKED BY:
CM, ENGINEER
MFI VIN JAY A. YARD, CE, CPE
ENGINEER IV

PROJECT TITLE:
EXPANSION OF WAREHOUSE
LOCATION:
MONROE ST., MONACON, NAVAL BR. BATAAN

RECOMMENDING APPROVAL:
VINCENT A. TRIP
VINCENT A. TRIP
DIE HOPPS

APPROVED BY:
MARIA LOUISE S. EVANGELISTA
MARIA LOUISE S. EVANGELISTA, MD, FPPA
CHIEF OF HOSPITAL

DRAWING NO.:
M-3



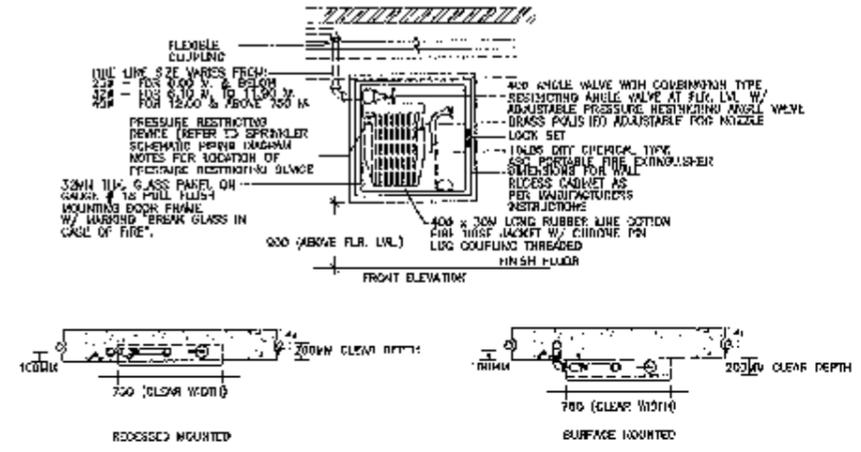
B PIPE SLEEVE DETAIL

WALL/FLOOR OPENING OF PP INSTALLATION		
ITEM	DESCRIPTION	PIPE & FITING SIZE
1	25mm DIA.	50mm DIA. SLEEVE OPENING
2	32mm DIA.	50mm DIA. SLEEVE OPENING
3	40mm DIA.	63mm DIA. SLEEVE OPENING
4	50mm DIA.	75mm DIA. SLEEVE OPENING
5	63mm DIA.	100mm DIA. SLEEVE OPENING
6	75mm DIA.	100mm DIA. SLEEVE OPENING
7	100mm DIA.	150mm DIA. SLEEVE OPENING
8	125mm DIA.	200mm DIA. SLEEVE OPENING
9	150mm DIA.	250mm DIA. SLEEVE OPENING
10	200mm DIA.	300mm DIA. SLEEVE OPENING

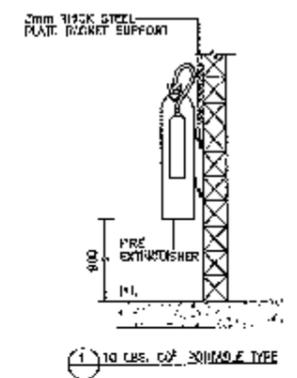
NOTE:
SLEEVES WERE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS AND FOUNDATIONS.

1. THE CLEARANCE BETWEEN THE PIPE SLEEVES WERE FILLED WITH NON-COMBUSTIBLE MATERIAL SUCH AS MINERAL WOOL, FIRE STOPPING MATERIALS OR EQUIVALENT.

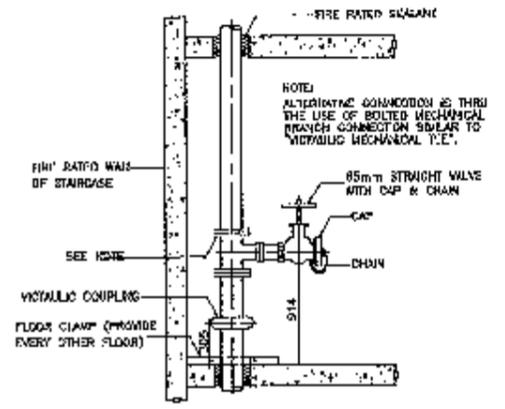
2. MINIMUM CLEARANCE BETWEEN PIPE AND SLEEVES SHALL NOT BE LESS THAN 25mm FOR PIPE 25mm THROUGH 75mm & 40mm FOR PIPE SIZE 100mm AND LARGER. FLOOR SLEEVES WERE EXTENDED AT LEAST 75mm ABOVE THE TOP OF THE WEARING SURFACE.



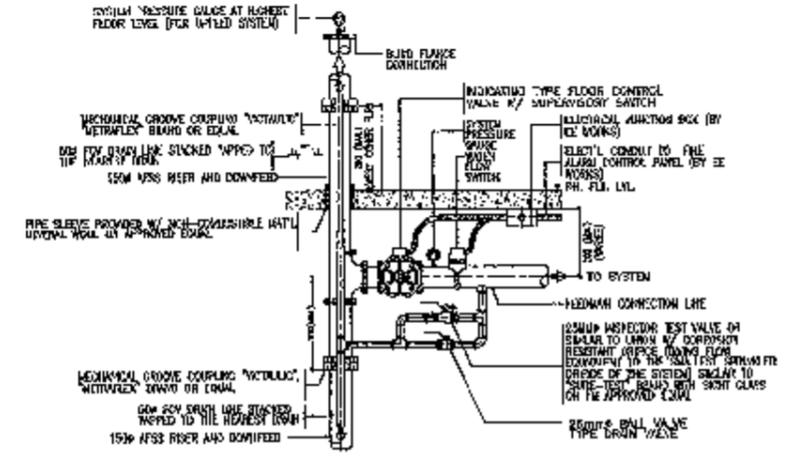
E FIRE HOSE CABINET DETAIL



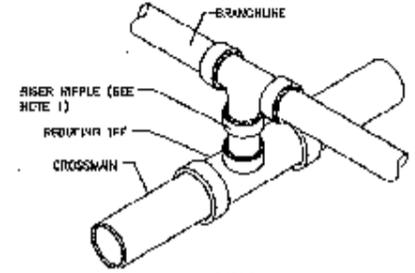
F PORTABLE FIRE EXTINGUISHER



C WET STAND PIPE RISER DETAIL

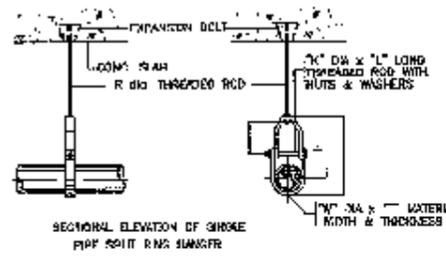


D FLOOR CONTROL VALVE DETAILS



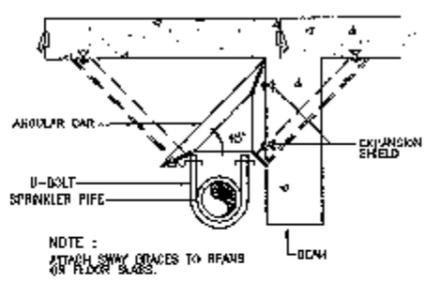
NOTES:
1. ALTERNATIVE CONNECTION IS THRU THE USE OF BOLTED MECHANICAL BRANCH CONNECTION SIMILAR TO "METALLIC" MECHANICAL TEE OR CROSS. IF MECHANICAL CROSSING IS USED, RISER NIPPLE IS NOT REQUIRED.
2. THE USE OF SCREWED CROSS FITTING IS NOT ACCEPTABLE.
3. THE USE OF THROUGHPUT OR ACROPLUT IS ACCEPTABLE PROVIDED THAT HOLE SAW IS USED IN CUTTING HOLE THRU THE CROSSMAN PPE.

G CROSSMAN TO BRANCHLINE CONNECTION DETAILS

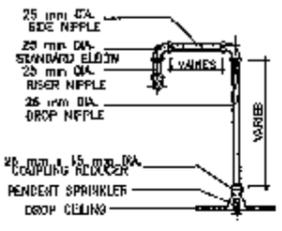


H PIPE HANGER DETAIL

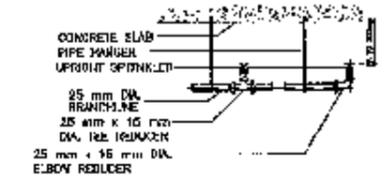
TABLE OF CLEVIS HANGERS				
PIPE SIZE (mm)	ROD DIA. (mm)	D	G	F (mm)
50	9.65	111.12	143	88.30
75	12.70	106.00	143.10	30.20
100	15.8	145.35	191	33.27
150	19.10	178.12	267.00	80
200	22	241	352	67



I SWAY BRACE DETAIL



J PENDANT SPRINKLER CONNECTION DETAIL



K UPRIGHT SPRINKLER CONNECTION DETAIL

1 FIRE PROTECTION DETAILS (2/2)
M.2 NOT TO SCALE

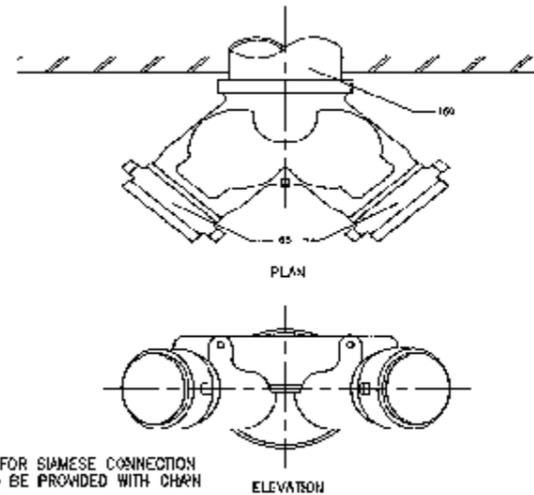
<p>MANILA CENTRAL WELLNESS AND GENERAL HOSPITAL</p>	<p>PREPARED BY:</p> <p>MANO M. D. N. CRUZ</p>	<p>PROJECT TITLE:</p> <p>EXPANSION OF WAREHOUSE</p>	<p>ROOM/WORKING APPROVAL:</p> <p>VINCENT A. SIP</p>	<p>APPROVED BY:</p> <p>MARIA LOURDES L. EVARCELISTA, MD, FPPA</p>	<p>SHEET NO.:</p> <p>M-2</p>
	<p>CHECKED BY:</p>	<p>PROJECT NO.:</p> <p>1990</p>	<p>LOCATION:</p> <p>P. MONROE ST., COM. ACTION, MARINA - PH. DEL. MAN.</p>	<p>DATE:</p> <p>1990</p>	<p>CHIEF OF HOSPITAL:</p>

LEGEND

SCHEMATIC SYMBOL	DESCRIPTION
	RECESSED PENDENT TYPE HEAD (CHROME FINISHED WITH ESCUTCHEON PLATE)
	UPRIGHT SPRINKLER HEAD
	CHECK VALVE
	GATE VALVE
	DRAIN VALVE
	SPRINKLER RISER
	DRY STANDPIPE RISER
	INSPECTOR TEST CONNECTION
	CROSSMAIN OF FEEDMAIN LINE
	DSP FIRE DEPT. CONNECTION SUPPLY LINE
	AFSS FIRE DEPT. CONNECTION SUPPLY LINE
	FLUSHING CONNECTION
	BRANCH LINE
	RISER NIPPLE
	TWO WAY LONGITUDINAL SWAY BRACE
	FOUR WAY (AFSS & DSP) RISER SWAY BRACE
	TWO WAY SWAY BRACE
	FIRE HOSE VALVE
	PIPE HANGER
	FIRE HOSE CABINET
	ALARM CHECK VALVE ASSEMBLY
	VICTAULIC COUPLING (FLEXIBLE CONNECTION)
	ALARM CHECK VALVE ASSEMBLY
	DRY-CHEM (10 LBS) DRY CHEMICAL PORTABLE FIRE EXTINGUISHER
	DRAIN LINE
	INSPECTOR TEST CONNECTION
	PRESSURE RELIEF VALVE/ PRESSURE REDUCING VALVE
	TWO WAY DSP & AFSS FIRE DEPT. CONNECTION DETAILS
	TWO WAY HOSE VALVE ROD MANIFOLD
	PORTABLE FIRE EXTINGUISHER

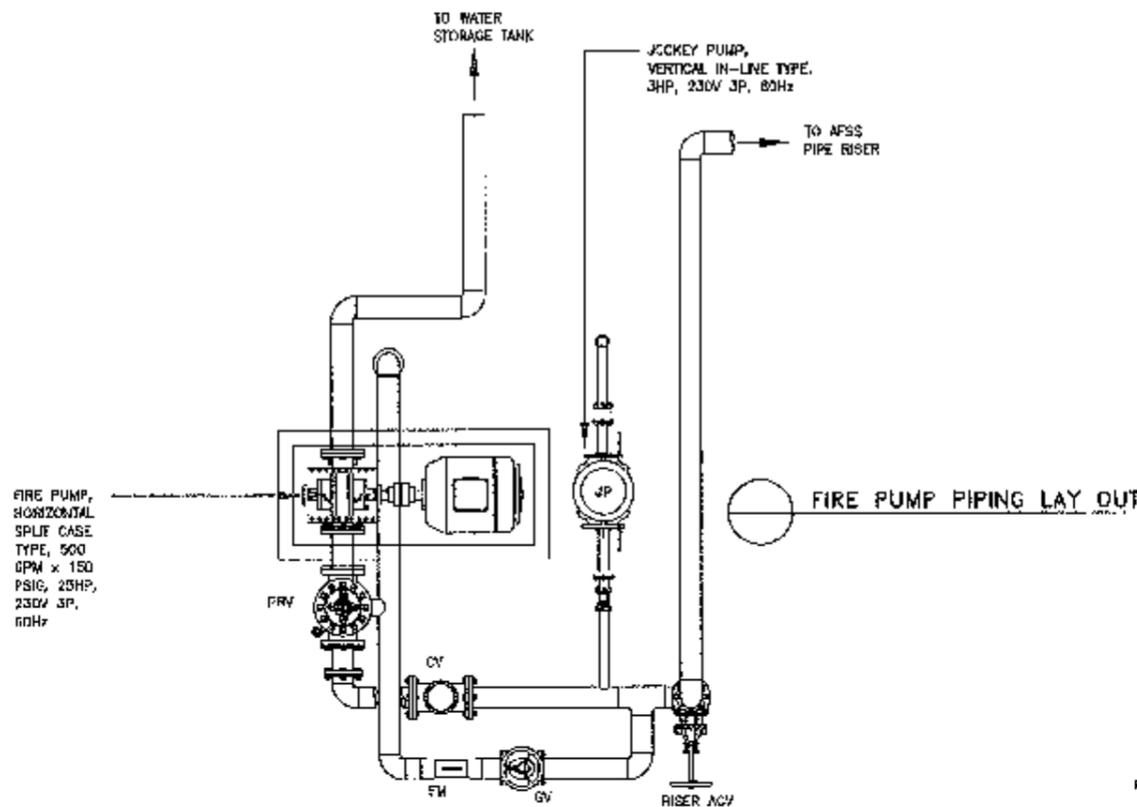
ABBREVIATION

DSP	DRY STAND PIPE
AFSS	AUTOMATIC FIRE SPRINKLER SYSTEM
GV	GATE VALVE
CV	CHECK VALVE
FCV	FLOOR CONTROL VALVE
WFS	WATER FLOW SWITCH
DV	DRAIN VALVE
OS&Y	(OUT SIDE SCREW & YOKE) GATE VALVE
FHV	FIRE HOSE VALVE
FHC	FIRE HOSE CABINET
FC/VC	FLEXIBLE CONNECTOR/VICTAULIC COUPLING
PFE	PORTABLE FIRE EXTINGUISHER
CO2	CARBON DIOXIDE
ACV	ALARM CHECK VALVE
PRV	PRESSURE RELIEF VALVE
ITC	INSPECTOR TEST CONNECTION
DL	DRAIN LINE
RN	RISER NIPPLE
FM	FLOW METER



NOTE:
COVER FOR SIAMESE CONNECTION SHOULD BE PROVIDED WITH CHAIN

1 FIRE DEPARTMENT CONNECTION DETAIL (SIAMESE TWIN)



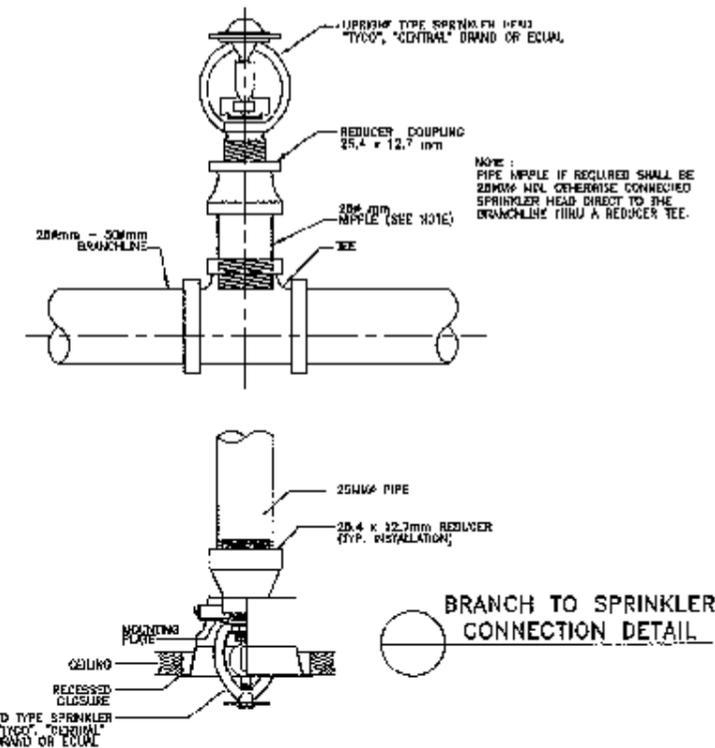
1 FIRE PROTECTION DETAILS (1/2)
M.1 NOT TO SCALE

GENERAL NOTES:

- ALL WORKS WERE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE FIRE CODE OF THE PHILIPPINES & THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA-13) STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
- THE WORKS EXECUTED IN CLOSE COORDINATION WITH OTHER TRADES.
- PIPES INSTALLED WERE STANDARD B.I. SCHEDULE 40 (ERW) AND COR-CROWNED TO ASTM-A53, PIPES INSTALLED LARGER THAN 50MM, THE FITTINGS CONNECTION ARE BUTT WELDED TYPE, PIPE SMALLER THAN 50MM, THE FITTINGS CONNECTION ARE THREADED MALLEABLE IRON TYPE.
- ALL PORTABLE FIRE EXTINGUISHER (PFE) ARE "ABC" TYPE DRY CHEMICAL (INSIDE FIRE HOSE CABINETS & COMMON AREAS).

MATERIAL SPECIFICATIONS:

- FIRE LINES** BLACK IRON (B.I.) ERW PIPES SCHEDULE 40 STANDARD CONFORMED TO ASTM-A53 "GOODYEAR" BRAND.
- GATE VALVES** GATE VALVES ARE OUTSIDE SCREW AND YOKE (OS & Y) TO ASTM D-88 CHECK AND GLOBE VALVES TO ASTM D-82.
- SPRINKLER HEADS** ALL SPRINKLER HEADS, PENDENT & UPRIGHT ARE RATED 68°C (155°F).



NOTE:
PIPE NIPPLE IF REQUIRED SHALL BE 25MM NIPPLE OTHERWISE CONNECTED SPRINKLER HEAD DIRECT TO THE BRANCHLINE THRU A REDUCER TEE.

<p>DEPARTMENT OF HEALTH MARICORPA MENTAL, WILPHNESS AND GENERAL HOSPITAL MARICORPA ST., 7004, MARICORPA, CALABARZON</p>	<p>DESIGNED BY: MARCO M. DELA CRUZ</p> <p>DRAWN BY:</p> <p>CHECKED BY: MELVIN JAN A. YARUIT, CF, CPE ENGINEER IV</p>	<p>PROJECT: EXPANSION OF WAREHOUSE</p> <p>LOCATION: MARICORPA ST., FORACION MARICORPA, CALABARZON</p>	<p>APPROVED BY: MARIA LOURDES L. EVANGELISTA, MD, FPPA CHIEF OF HOSPITAL II</p>	<p>SHEET NO.: M-1</p>
	<p>DATE: 11/11/2023</p>	<p>SCALE: AS SHOWN</p>	<p>DATE: 11/11/2023</p>	<p>DATE: 11/11/2023</p>

GENERAL PLUMBING NOTES AND SPECIFICATION :

REF. RA 1378 NATIONAL PLUMBING CODE OF THE PHILS.

I EXECUTION OF PLUMBING WORK

ALL PLUMBING WORK INCLUDING INSTALLATION BE EXECUTED ACCORDING TO THE REQUIREMENT OF THE PHILIPPINE PLUMBING CODE THE RULES AND REGULATIONS OF THE CITY GOVERNMENT, OR MUNICIPALITY.

II NOTIFICATION OF ARCHITECT

COORDINATION WITH DRAWING AND OTHER RELATED SPECIFICATION, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCY FOUND THEREIN.

III RELOCATION OF PIPES

PIPES SHALL BE INSTALLED AS INDICATED ANY RELOCATION REQUIREMENT FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER.

IV SANITARY UTILITIES

PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERTED ELEVATION OF ALL EXISTING PIPES AND STRUCTURE.

V FIXTURES

ALL FIXTURES SHALL BE VENTED UNLESS OTHERWISE INDICATED.

VI GRADES OF HORIZONTAL PIPING

RUN ALL HORIZONTAL PIPING PERFECTLY ALIGNED AND AT UNIFORM OF NOT LESS THAN TWO PERCENT (%).

VII CHANGE OF DIRECTION

ALL CHANGE OF DIRECTION SHALL BE MADE BY APPROPRIATE USE OF THE 15° WYES, LONG SWEEP, QUARTER BEND SIXTH OR EIGHTH TO SIXTEENTH BENDS A SINGLE TURNING COMBINATION MAY BE USE ON VERTICAL STACK AND SHORT CHANGES THEREIN MAY BE USE VENT TYPES.

VIII PROHIBITED FITTINGS

NO DOUBLE HUBS, DOUBLE TEE BRANCH SHALL BE USE ON HORIZONTAL, SOIL WASTE LINE, THE UNLIDING OR TAPPING OF HOUSE DRAIN WASTE OR VENT PIPES AND SADDLE HUBS AND VENT PROHIBITED.

IX SLEEVES (NOT APPLICABLE)

PROVIDE PROPER SLEEVES AT WALLS COLUMN SLAB ONE SLAB ONE THICKER THAN ACTUAL SIZE PASSING THROUGH WALLS OR SLAB TO PIPES FROM BREAKAGE.

X CLEANOUT PIPES

CLEANOUT ARE REQUIRED UNDER THE FOLLOWING CONDITION:
 1. AT EVERY CHANGE IN HORIZONTAL DIRECTION EXCEPTING 22 1/2 ONE HALF DEGREES.
 2. 1500mm INSIDE THE PROPERITY LINE THE DRAIN CONNECTOR.
 3. EVERY 150mm IN HORIZONTAL RUN PIPE.
 4. AT THE END OF THE HORIZONTAL PIPE LINE.

XI DEAD END AVOIDED

A DEAD END IN THE INSTALLATION OF ANY PLUMBING SYSTEM IS PROHIBITED.

XII

NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT THE PROPER KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL BE AT THE RESPONSIBILITY OF THE DESIGNER ARCHITECT TO BE AS A WHOLE.

XIII

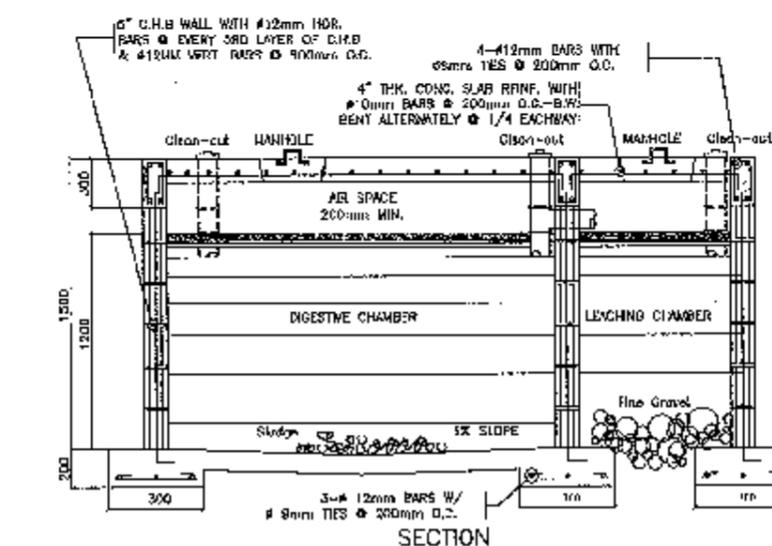
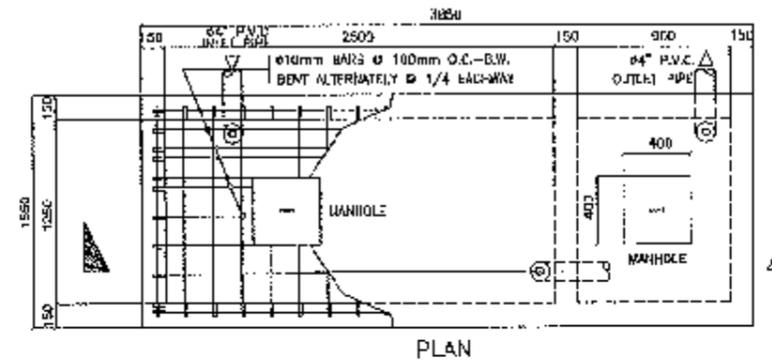
NO PIPING WORK FIXTURE OR EQUIPMENT SHALL BE CONCEALED OR COVERED BY ANY MEANS BEFORE THEY HAVE BEEN PRESSURE TESTED, FLOW TESTED AND INSPECTED BY THE ARCHITECT HAVING THE JURISDICTION OF THE WORK.

XIV

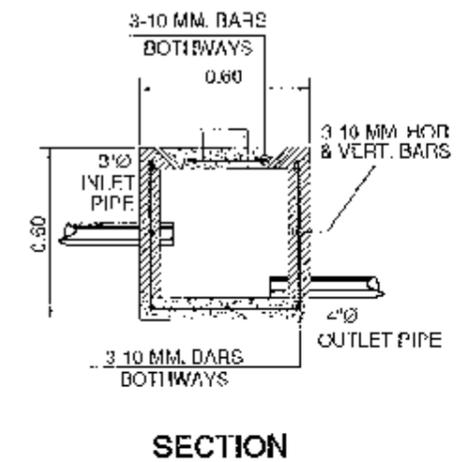
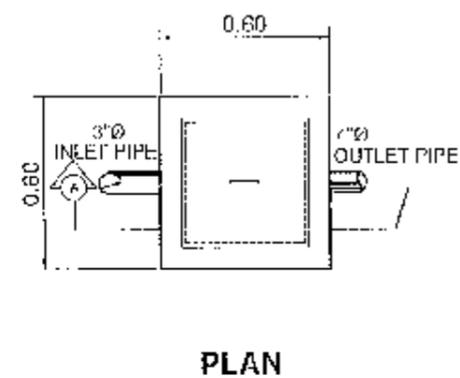
ALL WORKS MUST BE COMPLETELY INSTALLED AND TESTED AS REQUIRED BY THE SECTION 1378 AND SHALL BE LEAKTIGHT AT ALL.

XV

UNLESS OTHERWISE NOTED AND NOTIFIED, USE NEPTX BRAND TO ALL MATERIALS OF ROUGHING ON AND APPROVED BY EQUIVALENT.



1. DETAIL OF SEPTIC TANK
SCALE 1:25m



2. CATCH BASIN DETAILS
SCALE 1:25m

PLUMBING LEGEND

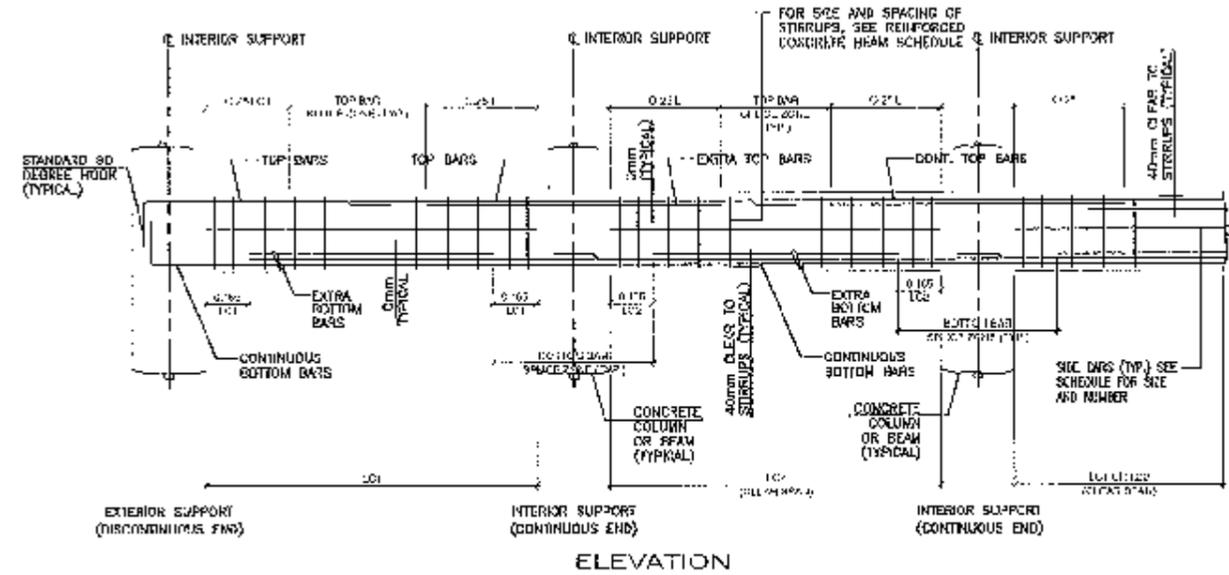
CO	CLEANOUT
DS	DOWNSPOUT
FD	FLOOR DRAIN
KSF	KITCHEN SINK FAUCET
WC	WATER CLOSET
LAV	LAVATORY
KS	KITCHEN SINK
(M)	WATER METER
GV	GATE VALVE
CV	CHECK VALVE
---	WASTE LINE
---	WATER LINE

PLUMBING SYMBOLS

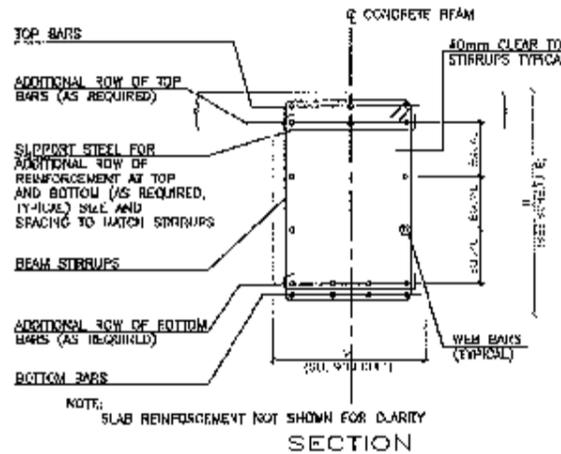
	TEE
	WYE BRANCHES
	CLEANOUT
	45° ELBOW
	90° ELBOW
	P-TRAP
	COUPLING
	REDUCER
	CHECK VALVE
	GATE VALVE
	WATER METER
	VSTR

<p>DEPARTMENT OF HEALTH MARIKINA CITY GENERAL HOSPITAL</p>	<p>DESIGN BY: <i>MARCO M. DELA CRUZ</i></p> <p>ENGINEER BY: <i>MELVIN JAN A. YABO</i></p>	<p>PROJECT TITLE: EXPANSION OF WAREHOUSE</p> <p>LOCATION: P. MUNDI ST., POBLACION, MARIKINA, BATAVI</p>	<p>RECOMMENDING APPROVAL: <i>VINCENT A. TRIP</i></p> <p>APPROVED BY: <i>MARIA LOURDES L. EVANGELISTA</i></p>	<p>SHEET NO.: P-1</p>
	<p>DATE: 11/23/24</p> <p>TIME: 11:00 AM</p>	<p>DATE: 11/23/24</p> <p>TIME: 11:00 AM</p>	<p>DATE: 11/23/24</p> <p>TIME: 11:00 AM</p>	<p>DATE: 11/23/24</p> <p>TIME: 11:00 AM</p>

SCHEDULE OF REINFORCED CONCRETE BEAMS														
FLOOR LEVEL DESIGNATION	BEAM MARK	BEAM CROSS (mm)		BAR #	LONGITUDINAL REINFORCEMENTS					NO. BARS EACH SIDE	STIRRUPS NO./SET	STIRRUPS #	STIRRUP SPACING	REMARKS
		WIDTH	DEPTH		DESCR. 'A'	DEPT. 'A'	DEPT. 'B'	DEPT. 'C'	DESCR. 'D'					
(SEE FRAMING PLAN)	FTR	200	450	16	1B	7	7	7			A	Ø10	1050, 50100, 50150	RØ200
	2B1/RP1	200	400	16	1B	4	7	4			A	Ø10	1050, 50100, 50150	RØ200
	2B2	250	450	16	1B	7	4	7			A	Ø10	1050, 50100, 50150	RØ200
					1B	4	7	4			A	Ø10	1050, 50100, 50150	RØ200
RD	200	400	16	1B	3	3	3			A	Ø10	1050, 50100, 50150	RØ200	
				1B	3	3	3			A	Ø10	1050, 50100, 50150	RØ200	

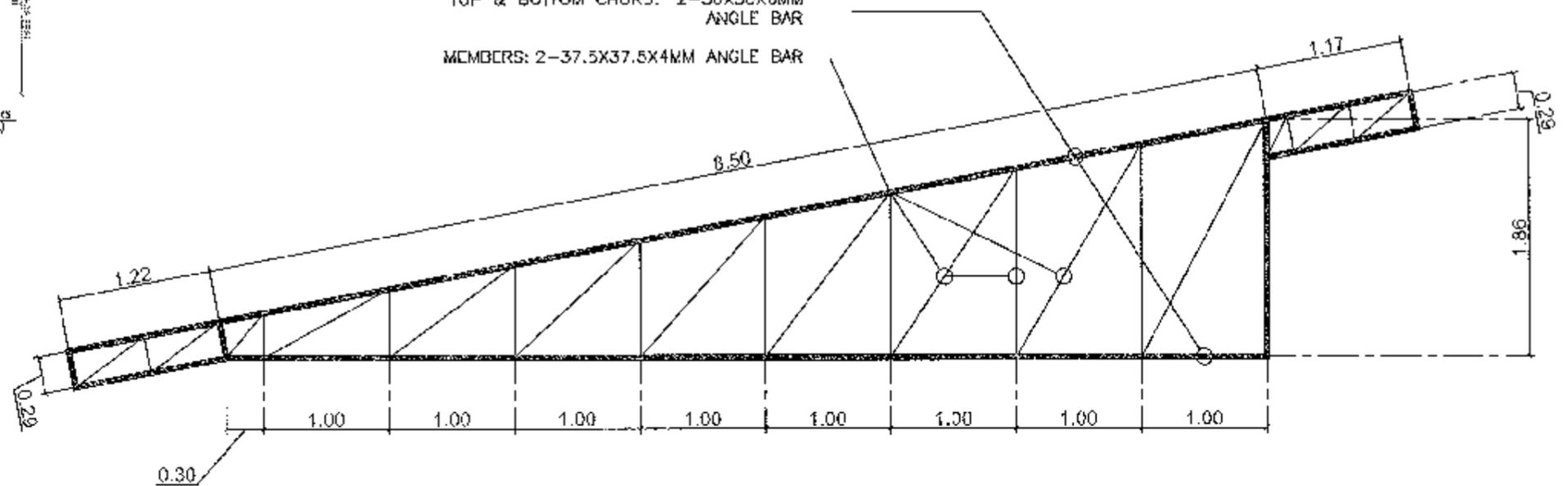


- NOTES:
1. $0.25L$ = LENGTH OF BEAM SPANS 1, 2 (FACE OF SUPPORT TO FACE OF SUPPORT)
 2. $0.22L$ = THE GREATER LENGTH OF CLEARSPAN 1 OR 2
 3. AT INTERIOR SUPPORT (CONTINUOUS END) PROVIDE LARGER SIZE AND NUMBER OF TOP BARS FROM ADJACENT SPANS.
 4. EXHIBITS AND MARKS: SUPPORT REINFORCEMENT NOT SHOWN FOR CLARITY



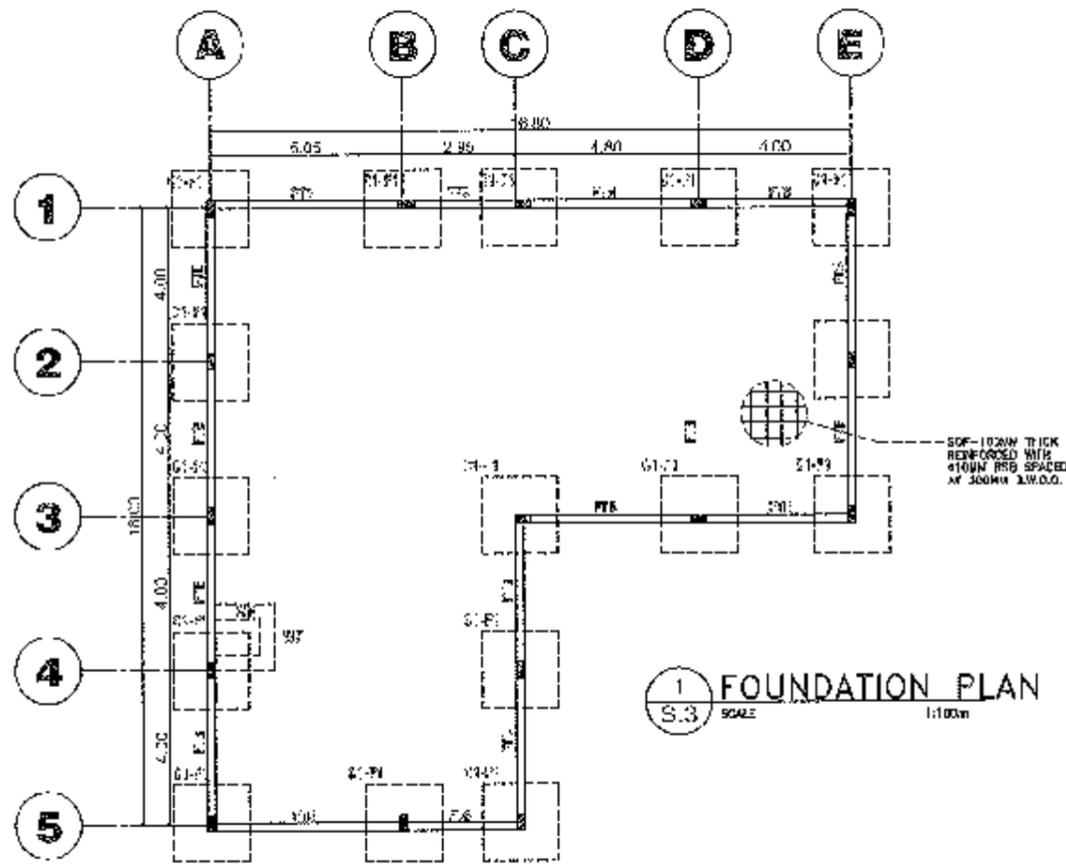
1 R.C. BEAM DETAIL
S.1 NOT TO SCALE

TOP & BOTTOM CHORD: 2-50X50X6MM ANGLE BAR
MEMBERS: 2-37.5X37.5X4MM ANGLE BAR

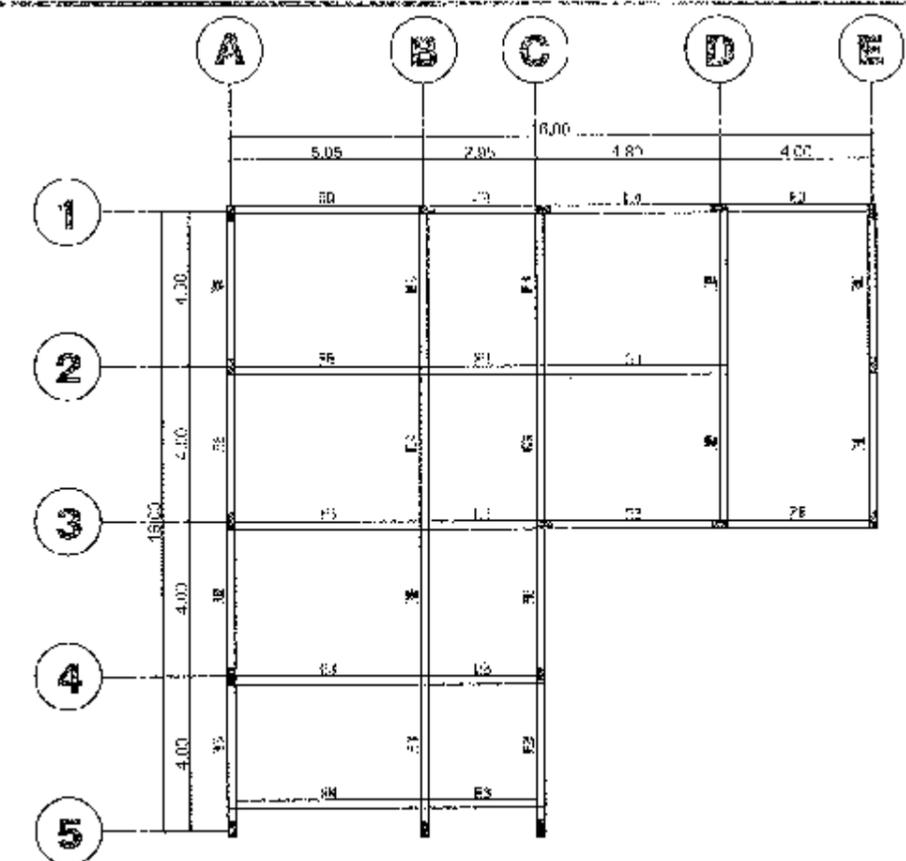


2 TRUSS DIAGRAM
S.1 SCALE 1:100

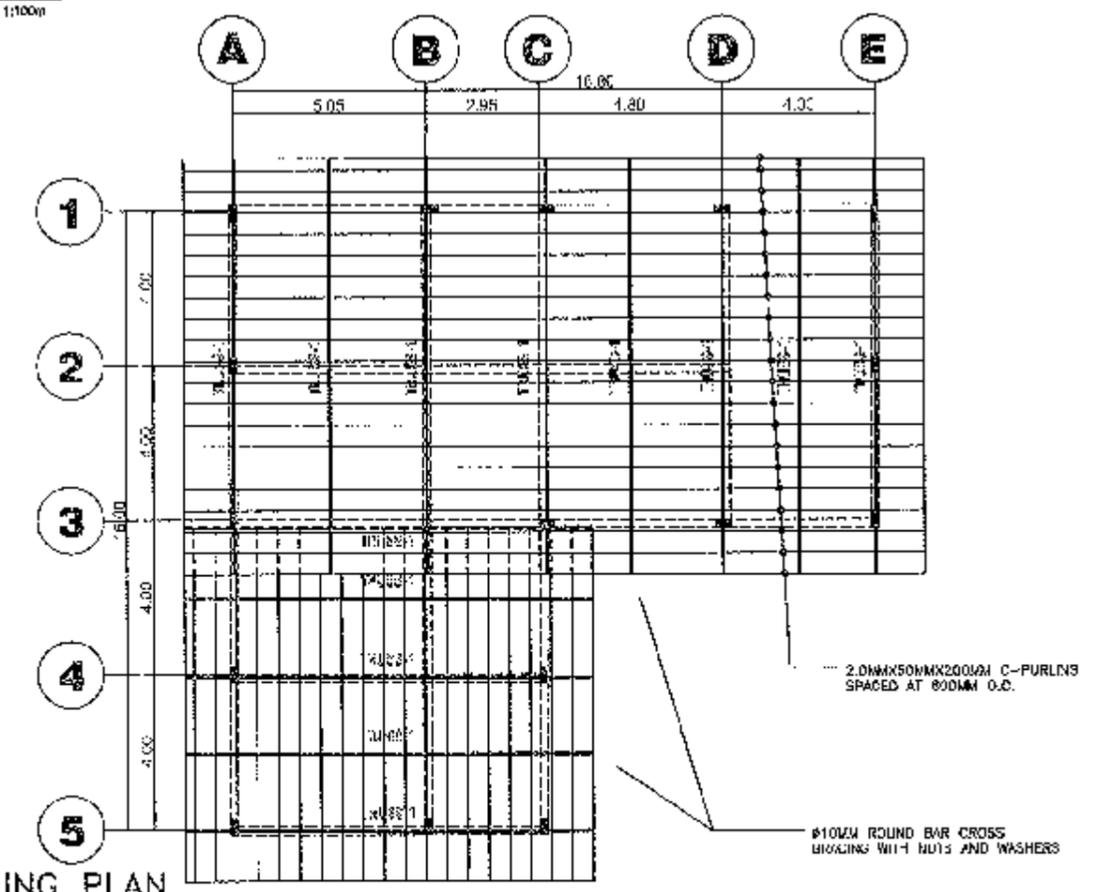
 DEPARTMENT OF HEALTH MALABON GENERAL HOSPITAL GENERAL HOSPITAL	PREPARED BY: MARCO M. DEYA CRUZ CIVIL ENGINEER	CHECKED BY: MELVIN A. MABOT, CE, CBP CIVIL ENGINEER	RECOMMENDING APPROVAL: VINCENT A. 33P OC-OPSS	APPROVED BY: MARIA LOURDES T. PAMBIANISTA, MD, FPPA CHIEF OF HOSPITAL I	SHEET NO.: S-4
	PROJECT NO.: DATE: LOCATION: EXPANSION OF WAREHOUSE MALABON GENERAL HOSPITAL, MALABON, RIZAL	TITLE: TRUSS DIAGRAM	SCALE: 1:100	DRAWN BY: DATE:	CHECKED BY: DATE:



2 ROOF BEAM FRAMING PLAN
S.3 SCALE 1:100m



3 ROOF FRAMING PLAN
S.3 SCALE 1:100m



<p>DEPARTMENT OF HEALTH MANILA</p>	<p>PREPARED BY:</p> <p>ENGINEER</p> <p>CLIENT</p> <p>DATE</p>	<p>DESIGNED BY:</p> <p>MELVIN JAN A. TABUT, CL, CSP RMC 100-101</p>	<p>PROJECT TITLE:</p> <p>EXPANSION OF WAREHOUSE</p>	<p>RECOMMENDING APPROVAL:</p> <p>VINCENT A. ISIP O.C. ROFSS</p>	<p>APPROVED BY:</p> <p>MARIA LOURDES L. EVANGELISTA, MY TRPA O.P. - S. - 1005 (A) 1</p>	<p>SHEET NO.:</p> <p>S-3</p>
	<p>PROJECT LOCATION:</p> <p>C. MONROE ST., POSLON ON MANIPILES HATAAN</p>	<p>DATE:</p> <p>1/11/2023</p>	<p>LOCATION:</p> <p>C. MONROE ST., POSLON ON MANIPILES HATAAN</p>	<p>DATE:</p> <p>1/11/2023</p>	<p>DATE:</p> <p>1/11/2023</p>	<p>DATE:</p> <p>1/11/2023</p>

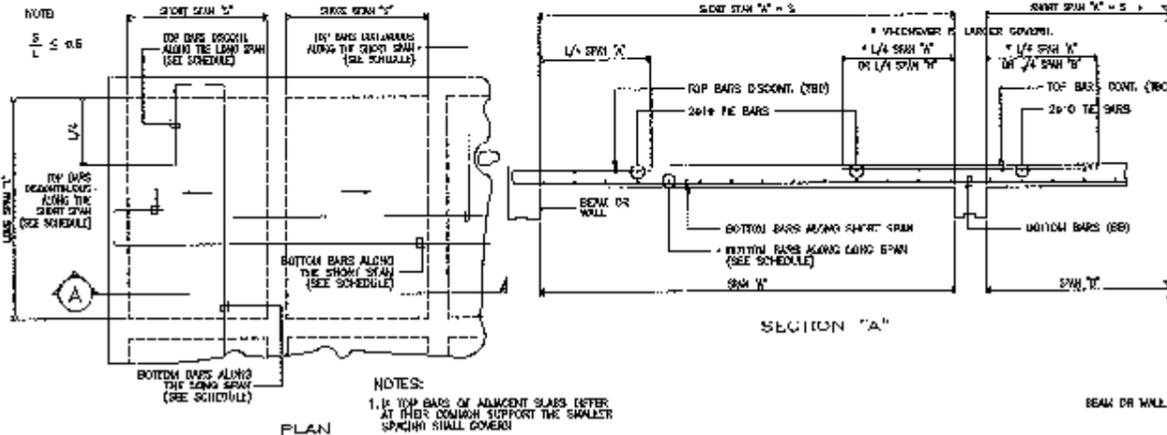
SCHEDULE OF R.C. SLABS

SLAB MARK (mm)	THICKNESS (mm)	SHORT SPAN					LONG SPAN					REMARKS
		BOTTOM BARS		TOP BARS			BOTTOM BARS		TOP BARS			
		CONT.	EXTRA	CONT.	EXTRA INTERIOR	EXTRA EXTERIOR	CONT.	EXTRA	CONT.	EXTRA INTERIOR	EXTRA EXTERIOR	
S-1	100	10# @ 150	-	-	10# @ 150	10# @ 150	-	-	10# @ 150	10# @ 150	2-WAY	
S-2	100	10# @ 300	-	-	-	10# @ 300	-	-	-	10# @ 150	1-WAY	

SCHEDULE OF FOOTINGS

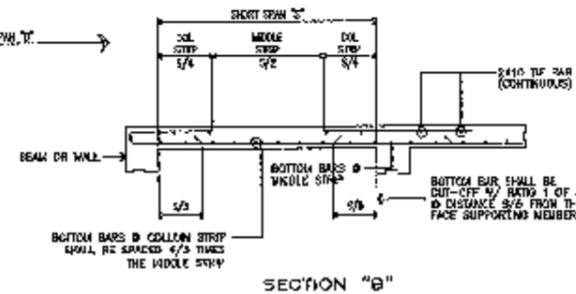
FOOTING MARK	FOOTING SIZE (mm)	THICKNESS (mm)	EXCAVATION DEPTH (mm)	REINFORCING BARS				REMARKS
				SHORT BARS		LONG BARS		
				EXT. TOP	INT. TOP	EXT. BOT	INT. BOT	
F-1	2200	2000	500	2000	15-#16 @ 100	10-#16 @ 100	ISOLATED	

NOTE: 1. FOUNDATION IS DESIGNED FOR A SOIL BEARING CAPACITY OF 80kPa AT 2.0M DEEP.
2. FOUNDATION SHALL REST ON NATURAL SOIL UNLESS OTHERWISE NOTED BY THE ENGINEER. NO PART OF THE FOUNDATION SHALL REST ON FILL.
3. INDICATED DEPTH OF EXCAVATION AS RECOMMENDED & SHALL BE BASE ON NATURAL GRADE LINE (NGL).



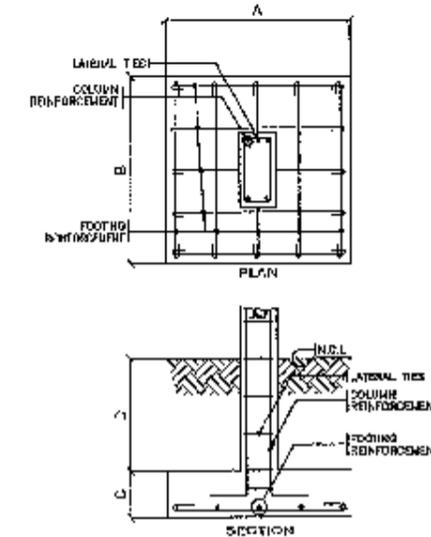
TYPICAL ONE WAY R.C. SLAB DETAIL

SCALE: 1/4" = 1'-0"



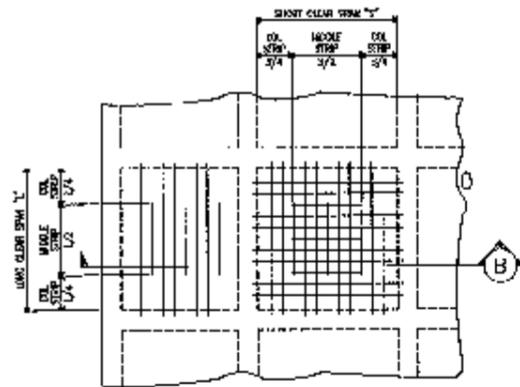
TYPICAL TWO WAY R.C. SLAB DETAIL

SCALE: 1/4" = 1'-0"

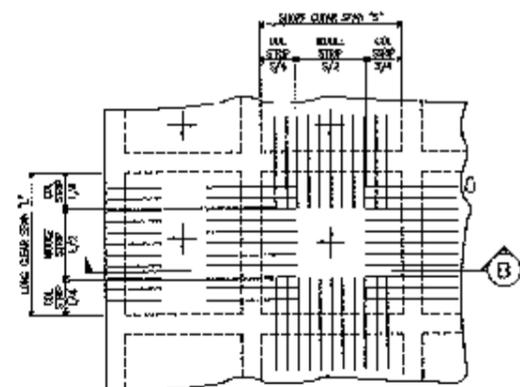


TYPICAL COLUMN AND FOOTING DETAIL

SCALE: NOT TO SCALE



TYP. FRAMING PLAN OF TWO WAY SLAB SHOWING BOTTOM BAR REINFORCEMENT



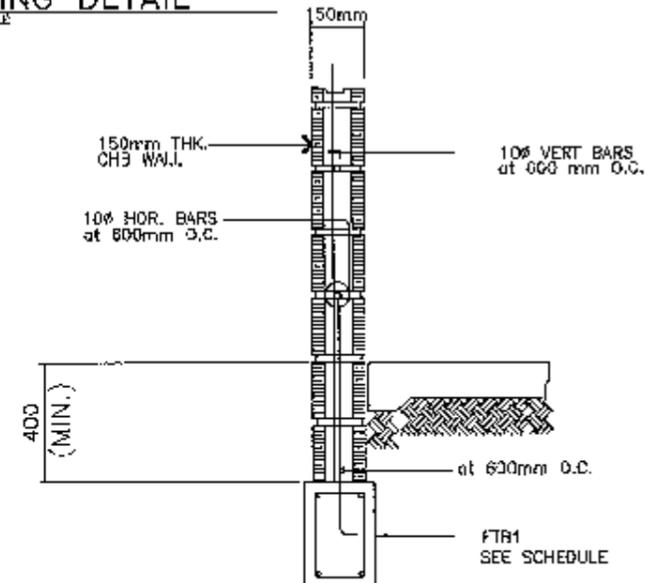
TYP. FRAMING PLAN OF TWO WAY SLAB SHOWING TOP BAR REINFORCEMENT

1 R.C. SLAB DETAIL

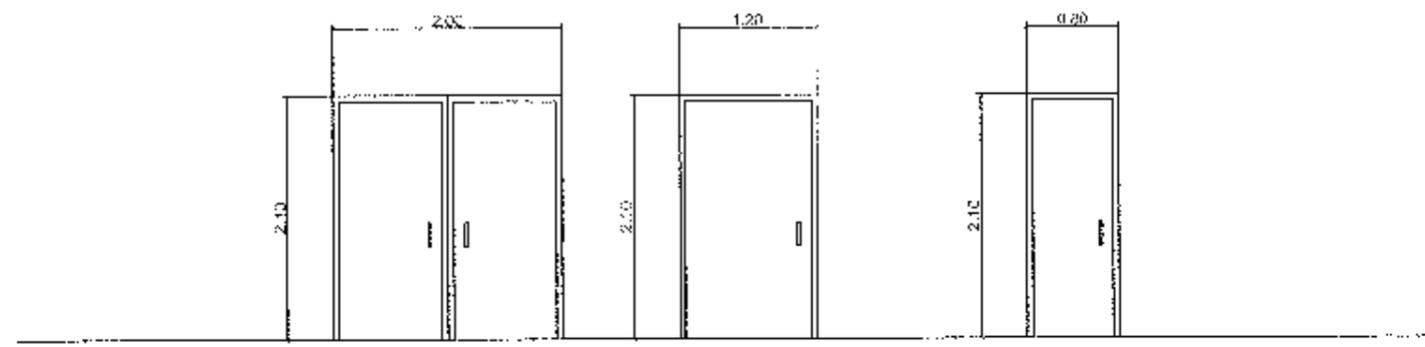
SCALE: NOT TO SCALE

SCHEDULE OF COLUMNS

LEVEL	C-1	VARIES
FOUNDATION TO ROOF LEVEL		
	MAIN BARS	
	8-#16mm	
	TIES: 1SET-#10mm	
	10mm RSB 4@50, 4@75, 4@100, R@150mm O.C.	



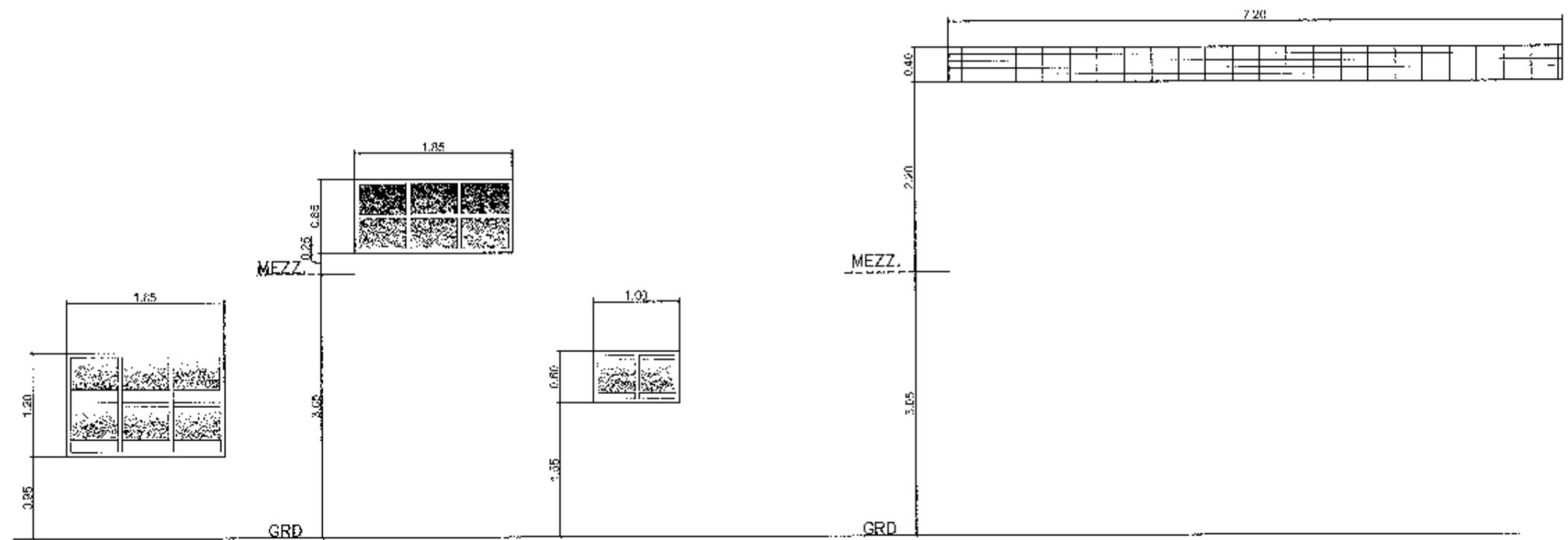
FTB-1 DETAIL



D-1
 TYPE : DOUBLE-SWING HOLLOW STEEL DOOR
 REQUIRED: 2 SETS
 ACCESSORIES: LOCKSETS & ALL REQUIRED

D-2
 TYPE : SINGLE-SWING HOLLOW STEEL DOOR
 REQUIRED: 1 SET
 ACCESSORIES: LOCKSETS & ALL REQUIRED

D-3
 TYPE : SINGLE-SWING FIRE DOOR
 REQUIRED: 1 SET
 ACCESSORIES: LOCKSETS & ALL REQUIRED



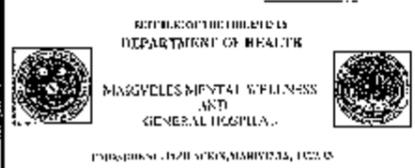
W-1
 TYPE : ALUMINUM FRAMED AWNING TYPE WINDOW WITH RAIN FILE GLASS WITH ALUMINUM SCREEN
 REQUIRED: 4 SETS
 ACCESSORIES: LOCKSETS & ALL REQUIRED

W-2
 TYPE : ALUMINUM FRAMED W/H H ADM FIRE GLASS WINDOW
 REQUIRED: 8 SETS
 ACCESSORIES: LOCKSETS & ALL REQUIRED

W-3
 TYPE : ALUMINUM FRAMED AWNING TYPE WINDOW WITH SUN FILE GLASS WITH ALUMINUM SCREEN
 REQUIRED: 1 SET
 ACCESSORIES: LOCKSETS & ALL REQUIRED

W-4
 TYPE : EDWARDSON TUBULAR FRAME WITH SPHERICAL FLAT BAR WITH ALUMINUM SCREEN LOUVER
 REQUIRED: 2 SETS
 ACCESSORIES: LOCKSETS & ALL REQUIRED

1 DOORS AND WINDOWS DETAIL
 A.5 SCALE 1:30m



DESIGNED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 REVIEWED BY: *[Signature]*

RAISING QUESTION
 NOTE: This drawing is the property of the client and shall remain their property. It is to be used only for the project specified and shall not be used for any other purpose without the written consent of the architect.

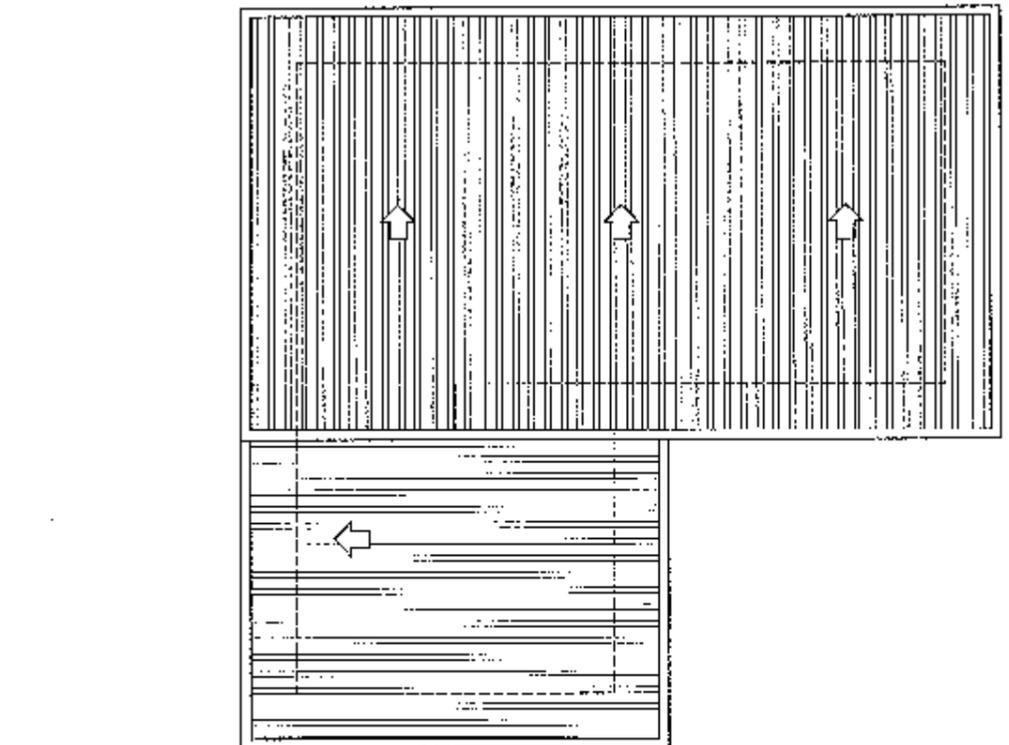
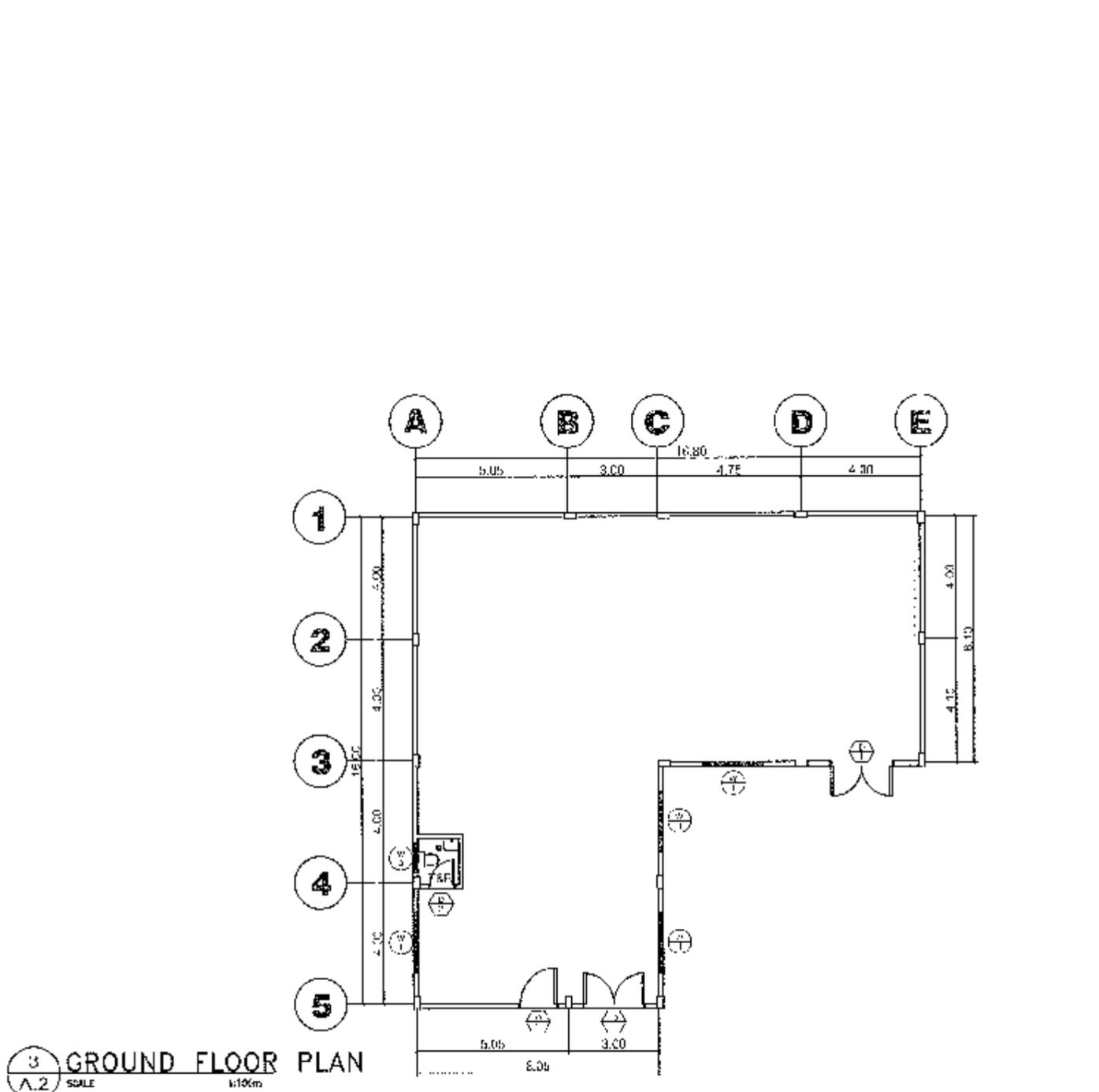
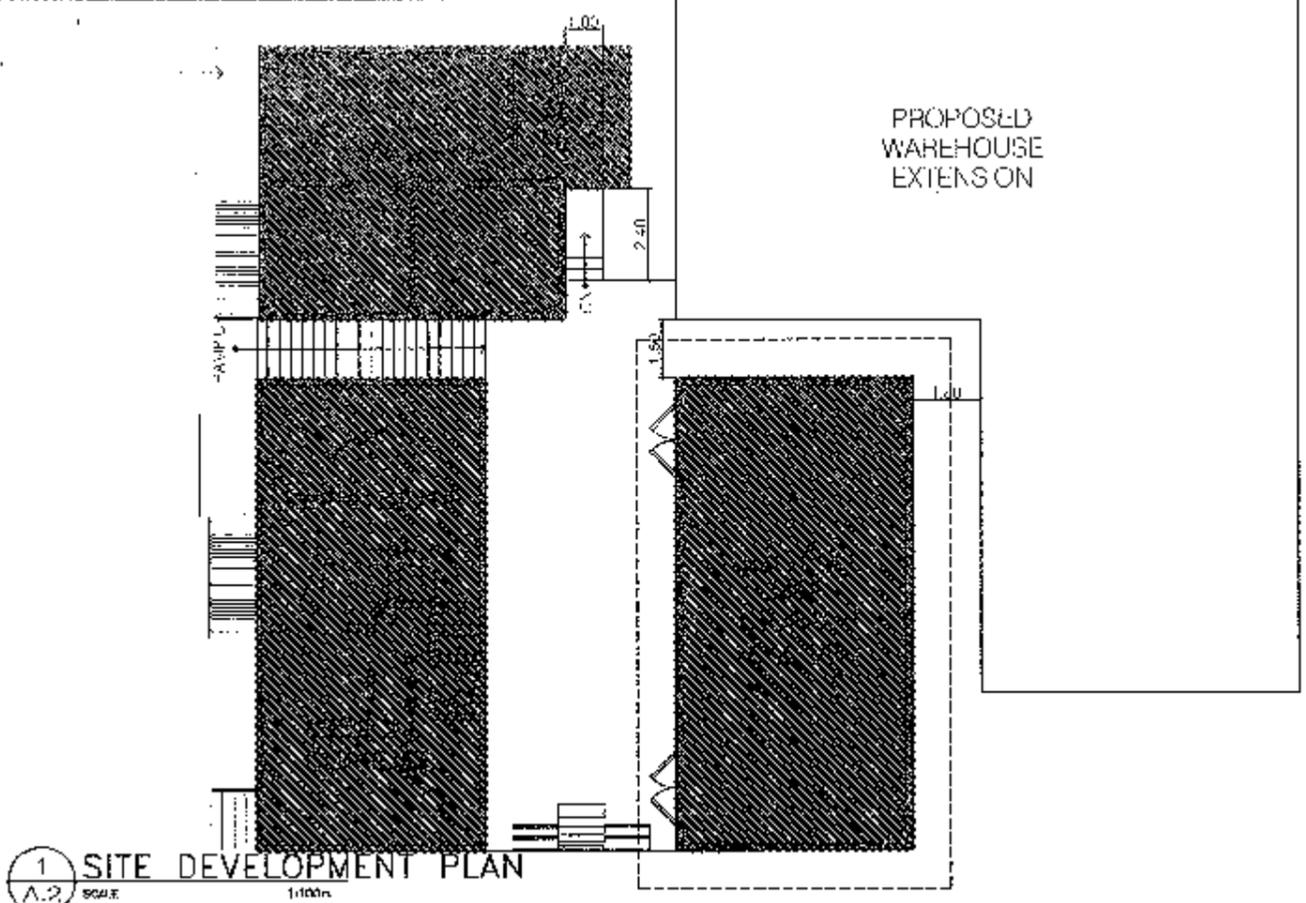
CLIENT'S NAME: **MILYN JAN A. PADUA, GEN. SRG. - RCMH-HRV**
 PROJECT NO.: **1770**
 DATE: **11/11/17**

PROJECT TITLE: **EXPANSION OF WAREHOUSE**
 LOCATION: **FABRINO ST., BOHACION BANGSAGS, BATAAN**

RECOMMENDING APPROVAL: *[Signature]*
VINCENT A. ISIP
 CIVIL ENGINEER

APPROVED BY: *[Signature]*
MARIA LOURDES L. EVANGELISTA, MD, TPA
 CHIEF OF HOSPITAL

SHEET NO.: **A-5**



2 ROOF PLAN
A.2 SCALE 1:100m

DEPARTMENT OF HEALTH
MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL
MARIVELES ISLAND, MARIVELES ISLAND

PREPARED BY
DRAWN BY
CHECKED BY
REVIEWED BY

MARCO M. DELA CRUZ
ARCHITECT

REVISIONS

NOTE:
This plan is prepared in accordance with the specifications and standards of the Department of Health, Mariveles Island, and the local government units. It is intended for the construction of the proposed warehouse extension. The contractor is responsible for the accuracy of the dimensions and the quality of the work.

DESIGNED BY
CIVIL ENGINEER
MELVIN JAN A. TABUT, RCP
ENGINEER IV

DATE: 11/11/2023

PROJECT TITLE
EXPANSION OF WAREHOUSE
MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL

LOCATION:
FACIONOC ST., FOBLADON, MARIVELES BATAAN

RECOMMENDING APPROVAL
VINCENT A. ISIP
CHIEF ENGINEER

APPROVED BY
MARIA LOURDES L. EVANGELISTA, MD, FPPA
CHIEF OF HOSPITAL II

SHEET NO.
A 2

Republic of the Philippines
Department of Health
MARIVELES MENTAL WELLNESS AND GENERAL HOSPITAL
P. Monroe St., Poblacion, Mariveles, Bataan

PROJECT TITLE : **EXPANSION OF WAREHOUSE**
LOCATION : MMWGH Compound, Mariveles, BATAAN
SUBJECT : SCOPE OF WORKS

GENERAL REQUIREMENTS

1. Furnish all labor, materials, equipment, plants, tools and other facilities to complete the entire works including architectural, civil, sanitary, electrical and mechanical lines where applicable and render ready for use/functional the **EXPANSION OF WAREHOUSE**, in accordance with the plans, specifications, scope of works, summary of materials and finishes, bid bulletin/s, instructions during project implementation, etc., and other contract documents.
2. Protect from damages all existing utility lines, structures, including roadways, etc. within the site and adjoining areas that may be damaged shall be repaired /replaced by the contractor without extra cost to the owner.

I. Site Works/ Earth Works

Mobilization, Layout and Permits

1. Provide Temporary Facilities such as Field/Site Office, Workshop/Stockpile/Warehouse Area, Safety Fence, Barricades, Barriers and Prohibitive/Warning Signs.
2. Correct layout of alignment, grade and elevations shall be executed and corresponding markings properly indicated before any permanent structure is installed.
3. The contractor shall obtain at his expense all permits (Building Permits, and other permits) required by the government authorities. Work shall not be started unless said authorities have approved the plans and a valid permit has been issued.
4. The contractor shall carry all expenditures for temporary water, power, telephone supply and all required testing of materials, etc. for this project and shall be included in the contractor's proposals.
5. The contractor shall include in his proposal and also shoulder the entire required necessary permit for this project.

Clearing and Grubbing

1. Includes the Clearing and Grubbing of Proposed Site Area before and after the construction period.

Earth Works

1. Includes the Structural Excavation, Backfilling, and Embankment of Aggregates/Selected Borrow.

II. Reinforcement Bars

1. Reinforcing Steel Bars to be use shall Grade 40 or 275 MPa.

III. Scaffolding and Formworks

1. Provide Scaffolding and Formworks either using Plywood or Good/ Ordinary Lumber or Steel Frames, Braces and Forms to whatsoever the availability of the contractor.

IV. Concreting Works

1. Use 3000 psi or 20.7 MPa concrete strength at 28 days.

V. Masonry Works

1. Undertake and complete all required masonry works, plastering works & plain cement finishing for all exterior and interior walls. (Verify Plan).
2. Use 125mm thick CHB for all interior and exterior walls.
3. Provide Ø10mm spaced at 600mm on center Horizontal Bars and Ø10mm spaced at 800mm on center Vertical bars for all CHB Walls.

4. All CHB corner connections shall be provided with stiffener columns and constructed simultaneously.
5. All concrete surfaces damaged during cleaning, grubbing and hauling shall be repaired or retouched by plastered finish.
6. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

VI. Tile Works

1. Install 300mm x 300mm Unglazed Ceramic Tiles at common area. (See Tile Layout Plan Detail)
2. Install 300mm x 300mm Glazed Tiles at all countertops.
3. Install 300mm x 300mm Ceramic Non-Skid Tiles at all Comfort Room's flooring and 300mm x 300mm Ceramic Skid Tiles at Counter Top and all Comfort Room's walling with 1.80m. high from the flooring. (See Tile Layout Plan Detail)
4. Provide Tile Trim on Countertops and Comfort Room's Tile works.
5. All Tiles will be approved by Chief of Hospital or Engineer before the installation.
6. Observe proper slope in lay outting the tiles.
7. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

VII. Steel Works

1. Fabrication of Steel Trusses for Roof Framing. (See Detailed Drawing).
2. Full weld and smooth finished all steel and stainless connection joints free from sharps.
3. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

VIII. Carpentry Works

1. Ceiling Works – Use 4.5mm thick Fiber Cement Board on Ceiling Eaves & Drywall Partition (on areas verified in the plan) with 0.60mm Double Furring, 0.60mm Wall Angle, 0.80mm Carrying Channel & W-Clips.
2. Includes all required hardware's and accessories to complete the ceiling works such as assorted nails, rivets, clips and etc.
3. Counter Cabinets – Fabricate Doors/Cabinet below the sink counter with complete hardware's, handles and hinges.
4. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

IX. Painting Works

1. Painting of all Exterior and Interior Concrete Walls, Partitions, Dry- Wall (Ceiling and Counter Cabinets), Doors, Door Jambs, Windows and, Window Grills. (See Plan)
2. Apply at least three (3) coatings and follow standard procedures in painting.
3. Color will be approved by Chief of Hospital.
4. Use premium quality and market approved brands of paint.

X. Fire Protection

Fittings and Sprinklers

1. Supply and Installation of Pipes, Fittings, and connectors such as:
 - 50mmØ B.I. Pipe Sch. 40 and fittings
 - 40mmØ B.I. Pipe Sch. 40 and fittings
 - 25mmØ B.I. Pipe Sch. 40 and fittings
 - OS & Y Gate Valve 100mmØ
 - Gate Valve 25mmØ
 - Fire Hose Cabinet Recessed Type with 1 1/2" Fire Hose, double jacket 20m long, brass nozzle and 20lbs Fire extinguisher.
 - Sprinkler Heads (Pendent Type with Ceiling Plate) UL Listed
 - Flexible Coupling
 - Clevis Hanger
 - Loop Hanger
2. Supply and Installation of Sprinkler Heads, Valves, Connections and other Accessories such as:
 - OS & Y Gate Valve 100mmØ
 - Gate Valve 25mmØ

- Fire Hose, 20', double jacket with brass nozzle.
 - Sprinkler Heads (Pendent Type with Ceiling Plate).
 - Flexible Couplings
 - Clevis Hangers
 - Loop Hangers
 - Expansion Bolts
 - Threaded Rods (Continuous)
 - Hexagonal nuts with washers
 - U-bolts with Nut and Washer
3. Supply and Installation of new pumps and controllers such as:
- Fire Pump (Vertical Turbine)
 - Vertical Turbine Pump shall be complete with discharge head assembly, air release, pressure gauge, coupled to an electric motor with WPI enclosure 445TP frame & other standard accessories. Fire pump shall be connected load to emergency generator.
 - 500 gpm, 3650 rpm, 25 HP, 230 V, 3 PH, 60 Hz
 - Fire Pump Controller
 - Fire Pump controller shall be wye delta reduced voltage starting open during transition from start to run, controllers shall be floor mounted on NEMA type 4 enclosure to include pump operating pilot lights, pump fail to start, pump over-load, alarm, test timer solenoid valve, UL/FM approved.
 - 230 V, 5 PH, 60 Hz
 - Jockey Pump (Submersible Pump)
 - Submersible Centrifugal Pump, electric driven motor, complete with standard accessories, UL/FM approved, Jockey pump shall be connected load to the emergency generator, enclosure shall be as per manufacturer's recommendation.
 - 50 gpm, 3650 rpm, 5 HP, 230 V, 3 Ph, 60 Hz
 - Jockey Pump Controller
 - Jockey Pump controller shall include the circuit breaker, over load relay, pressure switch, running period timer, all NEMA type enclosure, pressure recorder, power on pilot lights and other accessories, UL/FM approved.
 - 230 V, 3 PH, 60 Hz
4. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

XI. Roofing Works

1. Provide Rib Type Color Roof 0.80mm thick (Beige) for entire Roof Panels with 10mm double sided roof insulator.
2. Use 10mm Clear Solid Polycarbonated Roof Panel for Canopy and Lactation Lounge.
3. Use pre-painted galvanized iron bending accessories for Gutters, Ridgerolls and Flashings.
4. Includes Hardware materials/accessories (Rivets & Tecscrow).
5. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

XII. Doors and Windows

1. Fabricate and Install Door 1 to Door 4 with complete hardware's and accessories as per specified in the plan. (See Plan Detail)
2. Fabricate and Install Window 1 to Window 4 with complete hardware's and accessories as per specified in the plan including the steel window grills and insect screen. (See Plan Detail)
3. All Flush Doors, Steel Jambs and Steel Grills must be painted finish.
4. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

XIII. Plumbing Works

Plumbing Fixtures

5. Supply and Installation of standard size Water Closet with water tank with complete hardware, accessories and fittings.
6. Supply and Installation of standard size Lavatory, faucet, hardware, accessories, p-trap and fittings.
7. Supply and Installation of complete shower system and Bidettes.

8. Supply and Installation of Pedestal type Lavatory with gooseneck faucet, p-trap, accessories, hardware and fittings.
9. Provide 4"x4" Stainless Floor Drain on all Toilets and Comfort Rooms.
10. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

Sewer/Sanitary and Ventilation Line System

1. Installation of proposed Sewer/Sanitary lines.
2. Includes the installation of 50mm – 150mm diameter S1000 uPVC pipes. (See Plumbing Layout Plan)
3. Includes all the required PVC coupler, elbow, wye, tee, clean out and fittings.

Water Line/Supply System

1. Installation of proposed Water Line Supply System
2. Use ¾" diameter PPR Pipes Pn 20 for Water lines, including fittings and couplings. (Verify Plan)
3. Includes Required Gate Valves, Check valve, Hose Bibb, Faucet and Etc.
4. Follow as per plans, supplemental drawings and specifications etc. to complete these items of works.

Other Works

1. Leak testing in the presence of MMH representatives and the end-users is a must prior to concealing of pipes.
2. All Sanitary works to be done shall be under the direct supervision of duly registered Sanitary Engineer.
3. All Sanitary works shall be performed in accordance with the plans and specifications and to the fullest satisfaction of the Sanitary Engineer in-charge.
4. Provide as-built plan of all plumbing installation.

XIV. Electrical Works

1. Installation of new proposed Electrical Plan.
2. Includes the installation of conduit PVC pipes, utility boxes for switches, outlets, junction boxes, electrical devices and all Electrical wirings. (Verify Plan).
3. Includes installation of all the Electrical Fixtures such as Lightings, Convenience, Outlets, Switches, ACU Outlets base on the Plan.
4. Includes the installation of Grounding Rod, Circuit breakers & panel boards.
5. Supply and install of Split Type Air-Conditioning Units with complete accessories (See plans).
6. Provide as built plan of all electrical installation.
7. Follow all the electrical specifications noted in the Electrical Loading Design Plan.
8. All Electrical works to be done shall be under the direct supervision of duly registered Professional Electrical Engineer.
9. All Electrical works shall be performed in accordance with the plans and specifications and to the fullest satisfaction of the Electrical Engineer in-charge.
10. Provide as-built plan of all Electrical installation.
11. Follow as per plan and specifications and scope of works to complete the electrical works and render it to be fully operational.

CONSTRUCTION CLEARANCES and OTHER ITEMS

1. Secure from Engineer-in-Charge the following clearances prior to commencing requisite work:
 - a. Wall layout clearance – verification of measurements and distances
 - b. Electrical fixture, device, equipment installation clearance - verification of location, adherence to design specifications of electrical roughing-ins.
 - c. Plumbing fixture, accessory installations clearance – verification of location adherence to design specifications of plumbing roughing – ins.
 - d. Certificate from supplier, manufacturer, and dealer indicating specifications of branded material installed in construction.
2. Contractor is required to have all members of his construction crew to wear uniform T-shirt (one color) bearing the Contractor's name and address or identification.
3. Contractor is required to have all the members of his crew wear Personal Protective Equipment at designated places in the construction site.

4. Submit manual of operations for all supplied equipment and devices.

EQUIPMENT

1. Make use of the necessary minor and major equipment for all items of works to complete the project.

DOH-MMH ADMINISTRATIVE ORDERS, CIRCULARS, MEMORANDUMS PERTAINING TO THE MANAGEMENT OF THE CONSTRUCTION AND REGULATIONS.

1. The contractor shall comply with all DOH-MMWGH administrative orders, circulars and memorandums pertaining to the management of construction.
2. The Contractor shall comply with all DOH-MMWGH rules and regulations

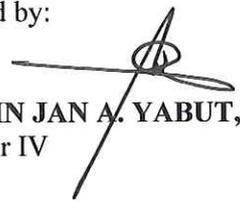
TIME OF COMPLETION

The project shall be completed thoroughly cleaned and rendered ready for use/functional not later than **ONE HUNDRED FIFTY CALENDAR DAYS (150 Calendar Days)** in accordance with the plans, specifications, supplemental drawings, bid bulletin/s, instructions during construction, shop drawings, scope of works, summary of relevant characteristics of materials and finishes or ARCHITECTURAL, STRUCTURAL, SANITARY, AND ELECTRICAL and other contract documents and as provided for in the IRR of RA 9184.

Prepared by:


JOHNIEL JUNE M. VILLANUEVA, REE
Engineer III

Checked by:


MELVIN JAN A. YABUT, CE
Engineer IV

Recommending Approval:


VINCENT A. ISIP
OIC-HOPSS

Approved:


MARIA LOURDES L. EVANGELISTA, MD, FPPA
Chief of Hospital II