

PHILIPPINE BIDDING DOCUMENTS



Republic of the Philippines
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IB 2024-22A– EXTENSION OF THE VETERINARY TEACHING HOSPITAL BUILDING (SECOND INVITATION TO BID)



Project Location	BSU La Trinidad Campus, Km 5, Balili, La Trinidad, Benguet
Brief Description	The project has an area of 138.38 sq.m. extension at the back of the existing Veterinary Teaching Hospital.
Approved Budget for the Contract (ABC)	PhP. 2,000,000.00
Contract Duration	140 calendar days
Amount of Bidding Documents	Php. 2,000.00

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.



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Invitation to Bid

IB 2024-22A Extension of the Veterinary Teaching Hospital Building

(Second Invitation to Bid)

1. The *Benguet State University (BSU)*, through the *Internally Generated Income – FY 2024* intends to apply the sum of *Two Million Pesos only (Php. 2,000,000.00)* being the Approved Budget for the Contract (ABC) to payments under the contract for the *Extension of the Veterinary Teaching Hospital Building – IB 2024-22A*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *Benguet State University* now invites bids for the above Procurement Project. Completion of the Works is required *within 140 Calendar Days upon receipt of the Notice to Proceed*. 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 *BSU-Bids and Awards Committee (BAC) Secretariat* through the contact details given below and inspect the Bidding Documents at the address given below from *8:00 AM to 5:00 PM office hours*.
5. A complete set of Bidding Documents may be acquired by interested bidders on *September 18, 2024 until September 25, 2024* from given address and website/s 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 Two Thousand Pesos only (Php. 2,000.00).

Payment may be made in either mode, as follows:

- a. Payment, in person, to the BSU Cashier’s Office, First Floor, Administration Building, Km 5, Balili, La Trinidad, Benguet. The Procuring Entity shall allow the bidder to present its proof of payment for the fees which will be presented in person, by facsimile, or through electronic means.

- b. Online payment through the Landbank payment portal- <https://www.lbp-eservices.com/egps/portal/index.jsp>. Bidders shall present its confirmation receipt to the BAC Secretariat in person, by facsimile, or through electronic means, which shall be used as proof of payment for the bidding documents fee.
6. The *Benguet State University* will not hold a Pre-Bid Conference
 7. Bids must be duly received by the BAC Secretariat through **manual submission** at the office address as indicated below, on or before 9:30 AM, September 26, 2024. 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 10:00 AM, September 26, 2024 at the given address below and/or through *via Google Meet Platform at the link: meet.google.com/iih-nrds-cpo*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
 10. The *Benguet State University* 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:

*BAC Secretariat
Procurement Management Office (PMO)
Benguet State University – La Trinidad Campus
1/F Administration Building
Km. 5, La Trinidad, Benguet
Email: procurement@bsu.edu.ph
Telefax: (074) 661-1839*
 12. You may visit the following websites:
For downloading of Bidding Documents: www.bsu.edu.ph/bids-awards

September 17, 2024

Sgd
SAMUEL S. POLIDEN
Chairperson, Bids and Awards Committee

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, *Benguet State University* invites Bids for the **Extension of the Veterinary Teaching Hospital Building (2nd Invitation to Bid)**, with Project Identification Number **IB 2024-22A**

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 **FY 2024** in the amount of **Php. 2,000,000.00.**

2.2. The source of funding is: **FY 2024 Internally Generated Income**

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 Procuring Entity has prescribed that:
Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will not hold a pre-bid conference for this Project 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 special PCAB License in case of Joint Ventures, 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: **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 *January 25, 2025 or One hundred Twenty (120) calendar days from opening of bids*. 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 (1) original copy of the bid, and one additional (1) copy of the bid in either hard copy **OR** digital copy.

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

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

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 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 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause																									
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: a. Repair of buildings with at least 50% similarities with the major work component of the project; b. Have been completed within 5 years prior to submission of bids																								
7.1	<i>Subcontracting is not allowed</i>																								
10.3	<i>PCAB License requirement shall be:</i> <i>Size Range: Small B</i> <i>License Category: C & D</i> <i>Principal Classification: General building/ General Engineering</i>																								
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table><tr><th>Key Personnel</th><th>No. of Personnel</th><th>General Experience</th><th>Relevant Experience</th></tr><tr><td>Site Engineer/ Site Architect</td><td>1</td><td>At least 3 years</td><td>At least 3 years</td></tr><tr><td>Safety Officer – Part time, with COSH training from accredited provider by DOLE</td><td>1</td><td>At least 3 years</td><td>At least 3 years</td></tr><tr><td>Electrical Engineer/ Registered Master Electrician</td><td>1</td><td>At least 3 years</td><td>At least 3 years</td></tr><tr><td>Sanitary Engineer/ Registered Master Plumber</td><td>1</td><td>At least 3 years</td><td>At least 3 years</td></tr><tr><td>Construction Foreman</td><td>1</td><td>At least 3 years</td><td>At least 3 years</td></tr></table> <p>Note:</p> <p>1. All the key personnel should have applicable and prescribed General and Relevant Experiences in line on specialization.</p> <p>2. Key personnel must have valid PRC licenses/certificates/ accreditation and PTR</p>	Key Personnel	No. of Personnel	General Experience	Relevant Experience	Site Engineer/ Site Architect	1	At least 3 years	At least 3 years	Safety Officer – Part time, with COSH training from accredited provider by DOLE	1	At least 3 years	At least 3 years	Electrical Engineer/ Registered Master Electrician	1	At least 3 years	At least 3 years	Sanitary Engineer/ Registered Master Plumber	1	At least 3 years	At least 3 years	Construction Foreman	1	At least 3 years	At least 3 years
Key Personnel	No. of Personnel	General Experience	Relevant Experience																						
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Sanitary Engineer/ Registered Master Plumber	1	At least 3 years	At least 3 years																						
Construction Foreman	1	At least 3 years	At least 3 years																						
10.5	<p>The minimum major equipment requirements are the following:</p> <table><tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr><tr><td>One-Bagger Mixer</td><td></td><td>1</td></tr><tr><td>Bar Bender</td><td></td><td>1</td></tr></table>	Equipment	Capacity	Number of Units	One-Bagger Mixer		1	Bar Bender		1															
Equipment	Capacity	Number of Units																							
One-Bagger Mixer		1																							
Bar Bender		1																							

	<i>Bar Cutter</i>		1
	<i>Welding Machine</i>		2
	<i>Plate Compactor</i>	5 HP	1
12	<i>Alternative Bid is not Allowed</i>		
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a. The amount of not less than 2% of ABC or Php. 40,000.00, 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 5% of ABC or Php. 100,000.00 if bid security is in Surety Bond. 		
16	<p>Each Bidder shall submit one (1) original of the bid documents, and one (1) additional copy of the bid in either hard copy OR digital copy. For digital copy/scanned copy of the bid, it may be saved in a flash drive. The flash drive shall contain the following:</p> <ul style="list-style-type: none"> a. The technical component of the bid in PDF format – saved in a “folder” marked as Technical Component; b. Financial component of the bid in PDF format – saved in a “folder marked as financial component; c. Detailed Estimates and Bill of Quantities – in Excel Format <p><i>Note: The bidder shall affix his/her signature in all photocopied documents in the original copy of the bid.</i></p>		
19.2	Partial bids are not allowed.		
20	<p>The bidder with the Lowest Calculated Bid shall submit ALL of the following post-qualification requirements:</p> <ul style="list-style-type: none"> d. Latest Income and Business Tax returns, filed and paid through the Electronic Filing and Payment System (EFPS), consisting of the following: <ul style="list-style-type: none"> i. 2023 Income tax Returns with proof of payment; and ii. VAT returns or Percentage Tax Returns with proof of payment covering six (6) months prior to the bid opening 		
21	<p>Additional contract documents relevant to the Project as required:</p> <ul style="list-style-type: none"> a. PERT/CPM b. Construction Safety and Health Program duly approved by DOLE; c. Construction Schedule and S-curve; d. Manpower Schedule; e. Construction Methods; f. Updated Program of works showing general methods, arrangement, order and timing for all activities in the works; g. Equipment Utilization Scheduled; and h. Contractor's All Risk Insurance (CARI) 		

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC**.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	<i>No further instructions</i>
4.1	<i>The Benguet State University shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.</i>
6	<i>No further instructions</i>
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: Fifteen (15) years.</i>
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the updated Program of Work to the Procuring Entity's Representative within ten (10) days upon receipt of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is 1% of the ABC or Php. 20,000.00.
13	The amount of the advance payment is equivalent to fifteen percent (15%) <i>of the total contract price to be paid in a lump sum by BSU.</i>
14	Materials and equipment delivered on the site but not completely put in place shall not be included for payment.
15.1	The date by which operating and maintenance manuals are required is within seven (7) calendar days upon completion of the project. The date by which "as built" drawings are required is within seven (7) after the completion.
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 1% of the ABC or Php. 20,000.00.

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.

TECHNICAL SPECIFICATIONS

"PROPOSE EXTENSION AT THE SOUTHERN PART (REAR) OF THE VETERINARY TEACHING HOSPITAL"

At
BSU Compound, Km.5, Balili, La Trinidad, Benguet
April 2024

GENERAL PROVISIONS AND REQUIREMENTS

SECTION 1 – SPECIFIC

1. SCOPE OF WORK

- a. The work covered under this contract shall include the construction of the building including supervision, labor and the supply of materials, equipment and services necessary to properly conduct and produce the desired work product. Included herein are mobilization, civil works, concrete and masonry works, carpentry, tinsmith, doors and windows, electrical works, plumbing works and painting works. General cleaning/demobilization of all temporary works and structures for an efficient, smooth and up to date completion of the contract.

2. CONTRACT DRAWINGS

- a. Details and extent of work are shown on the drawings accompanying these specifications.
- b. Sketches and other details not shown in plans shall be furnished by the Benguet State University architect or engineer during the pace of construction.

3. PARTS OF THE SPECIFICATIONS

- a. This specification shall include the following parts whose applicable provisions are binding in the contract:

Section I	-	Specific
Section II	-	General Conditions
Section III	-	Mobilization
Section IV	-	Concrete and Masonry
Section V	-	Carpentry and Lumber
Section VI	-	Tinsmith Works
Section VII	-	Doors and Windows

Section VIII	-	Painting Works
Section IX	-	Plumbing and Water Service System
Section X	-	Electrical Works
Section XI	-	General Cleaning and Demobilization

- b. Works performed under any of the following parts of the Specifications shall not be paid separately, but the cost thereof shall be considered as having been included in the lump sum contract price.
- c. These specifications are intended to supplement the provisions of PD 1096 otherwise known as the National Building Code of the Philippines and its IRR in order to provide the proper design and construction. In case of discrepancies between plans and specifications, these specifications shall prevail. It is the duty of the Contractor to examine both carefully, compare and verify dimensions and data furnished by BSU in case of discrepancies between figures and drawings, the matter should be brought immediately to the BSU architect or engineer before any adjustments shall be made by the Contractor.

SECTION II – GENERAL CONDITIONS

1. WORKMANSHIP

- a. All operations required under any and all parts of the Specifications shall be undertaken in a neat, workmanlike manner. Only skilled personnel with sufficient experience in similar operations shall be allowed to undertake the same.

2. CLEARING, GRUBBING, GRADING AND FILLING

- a. The contractor shall clear, grub, and grade the proposed building location for a distance of four (4) meters in all directions outside the building line without extra compensation. Provided, however, that he shall not be required to clear beyond existing street lines, should the said street line be nearer than those of the four (4) meters to any building line.

3. EXCAVATION AND BACKFILL

- a. The contractor shall make the necessary excavation of whatever materials maybe encountered, for all foundations to the extent required and the grade indicated on the drawings, without extra compensation.

4. ELECTRICITY AND WATER SUPPLY

- a. The contractor shall provide at his own expense electricity and ample supply of fresh water, sufficient for all construction purposes.

5. INSPECTION OF THE SITE

- a. The tender may deem to have been based on data, regarding physical conditions of the site. The contractor acknowledges and warrants that he has inspected and examined the site and the surroundings and has satisfied himself by submission of his bid as to the nature of the work and materials necessary for the completion of the project, the means of access to the site, the accommodation he may require, and that he has obtained for himself, all the necessary information as to risks, contingencies and other circumstances which may have influenced or affected his bid. NO increase in cost or extension of time will be considered for the failure to inspect and examine the site condition.

6. CHANGES

- a. The BSU architect or engineer reserves the right to make slight changes in details of work or materials as he may deem advisable. These changes may include revision or modifications of shapes or dimensions of elements that may involve additional expenses to the contractor shall be covered by appropriate adjustment of the contract price.

7. CONFLICT BETWEEN PLANS, SPECIFICATIONS AND BILL OF MATERIALS & ESTIMATES

- a. Should there be any conflict between indications on drawings, provisions in specifications, bill of materials and estimates shall be referred to the BSU architect or engineer for his/her decisions on the matter and whose opinion shall be final.
- b. Any omission in the specifications of work or works to be undertaken but necessary for the completion of work, shall be undertaken by the contractor as if indicated on the drawings, without extra compensation. Such works shall be done in the usual manner as required as to quality of both materials and workmanship.

8. REJECTIONS

- a. Materials or workmanship not in reasonable conformance with the provisions of these specifications shall be rejected at any time during the progress of the work. The contractor shall receive copies of reports of rejection of materials and workmanship made by the authorized technical representative of BSU. Any part of the work that he has been done and is not of the quality required by reasonable interpretation of the plans and specifications shall be torn down or removed immediately and rebuilt or otherwise remedy such work in accordance with the requirements of the plans and specifications.

9. VARIATION ORDER / CHANGE ORDER / EXTRA WORK ORDER

- a. Any changes or deviations made on plans, specifications, bill of materials and estimates should be referred and reported to the BSU architect or engineer for proper documentation prior to implementation.
- b. All IRR of RA 9184 regarding Variation Order, Change Order or Extra Work Order should be strictly followed.

10. ESTABLISHED GRADE LINE AND PREPARATION OF SITE

- a. The contractor shall inspect and examine the individual site conditions. No increase in cost or extension of time will be considered for failure to examine site condition.
- b. Care shall be taken to protect and maintain adjacent properties, trees, materials and such other facilities such as conduits, drains sewers, pipes and other wires that are to remain in the property. Restore without cost to BSU all properties may be affected during the performance of work.
- c. All unusable materials and debris resulting from the performance of work shall be removed from the premises and salvageable material shall be hauled and stacked neatly by the contractor to BSU storehouse.
- d. Remove all earth and sub-grade materials unsuitable for the preparation of the sub-grade for the items of construction. Clear and remove shrubs, stumps, roots and other vegetation from the site.

SECTION III – MOBILIZATION

1. SCOPE

- a. The work shall include mobilization of equipment, manpower, hauling of materials, and necessary tools needed for the proper and smooth completion of the project.

SECTION IV – CONCRETE AND MASONRY WORK

1. SCOPE

- a. The work includes the furnishing of labor, equipment and materials, and the performing of all necessary operations in connection with the concrete and masonry works for the rehabilitation of the building.

2. MATERIALS

- a. Concrete hollow blocks (CHB) shall be of superior and approved quality of size 4"x 8"x 16", sound and free from cracks and other imperfections.
- b. Sand and gravel shall be well graded and free from any deleterious materials.
- c. Cement and aggregates shall be stored in a manner as to prevent their deterioration or the intrusion of foreign matter that will deteriorate the quality or which has been damaged shall be tested by standard mortar test to determine its suitability for use.
- d. Mortar shall be workable, cement-sand mixture and attaining a 28-day compressive strength of 1500 psi.
- e. Concrete Aggregates shall conform to the "Specifications for Aggregates" (ASTM G33 latest revision). The maximum size of the aggregates shall not be larger than one-fifth $1/5$ of the narrowest dimension between side of the forms of the member of which concrete is to be used, not larger than three-fourths ($3/4$) of the minimum clear spacing between individual reinforcing bars in no case larger than two (2) inches in diameter.
- f. Reinforcing steel bars for columns, beams, footing, pedestal walls, etc., shall be a structural grade deformed bar. Ties and stirrups of beams and columns as well as slab reinforcements may be plain bars unless noted in the plans or specified herein.
- g. Forms shall conform to the shape, lines and dimensions of the members as called for on plans, and shall be substantial and sufficiently tight to prevent leakage of mortar. They shall be properly braced or tied so as to maintain position and shape.
- h. Plywood, metal, plastic materials or surfaced lumber forms shall be used where it will be best give the most advantage in the specific concrete work involved.
- i. Unless otherwise ordered, forms and shoring shall not be disturbed and shall remain in place for minimum period of 24-hours.

3. CONCRETE AND MASONRY WORK

- a. Before placing reinforcement and before pouring concrete, remove all loose rusts, mill, oil or other adhering materials which tend to reduce or destroy bond between concrete and reinforcement.
- b. Reinforcing steel bars shall be cut, bent, lapped or splice as recommended by the ACI codes. Splices where permitted, shall provide sufficient lap (not less than 60 times the diameter of the bars to be deformed) to transfer the stress between bars by bond and shear, and shall be secured in place by the use of tie wires not smaller than No.16 gauge. Splices in adjacent bars shall be staggered.
- c. Reinforcing steel bars shall be placed accurately and secured in place by use of concrete or metal supports, spacers or ties to firmly hold them in their proper positions during pouring and setting of concrete.
- d. Reinforcing steel bars shall not be bent or straightened in any manner that will injure the materials. Bars with kinks or bends shall not be used.

- e. Reinforcing steel bars shall have protective covering not less than three-fourths (3/4) inches of concrete in slabs that are not exposed to the ground; not less than one and a half inches (1-1/2"), in beam, girders, and columns, and not less than (3") for footing on soil.
- f. All horizontal and vertical bars as the case maybe shall be anchored 20 bar diameters into the concrete footing, columns and beams.
- g. All horizontal the reinforcement shall be tied to the vertical reinforcement at every intersection with no. 16 G.I. tie wire.

Concrete:

Design working stresses for concrete based on the following 28 days of ultimate compressive strength:

- | | |
|------------------------------------|-----------|
| 1. Footing, Columns, Bearing Walls | 3,000 psi |
| 2. Slab of fill | 2,500 psi |

Reinforcement:

1. All mild reinforcement steel shall be of new Billet Structural Grade (fy=33,000 psi) deformed bars conforming to ASTM A-615.
2. All detailing, fabrication and installation of reinforcing bars must follow the ACI Manual Standard Practices for Detailing Reinforced Concrete Structures (ACI-315.65).
3. All reinforcement shall be continuous with a minimum length of laps for splices as per corresponding notes in ACI Detailing Manual.

Walls:

1. See Architectural Drawings for concrete and masonry walls not shown on the structural drawings.
2. Wall reinforcement shall be wired together and double curtain braced apart.

Clearances:

Minimum concrete cover shall be as follows:

- | | |
|------------|---------------|
| 1. Footing | 0.076 m clear |
| 2. Columns | 0.038 m clear |
| 3. Walls | 0.019 m clear |
| 4. Beams | 0.038 m clear |
| 5. Slabs | 0.019 m clear |

Dowels:

Provide dowels for walls starting on beams.

Foundation:

1. Except otherwise shown, excavations shall be made as near as possible to the neat lines required by the size and shape of the structure.
2. Backfill shall be placed in layers not exceeding 0.15m in depth. Each layer must be moisten as directed and thoroughly compacted before placing the next layer.

Pouring Schedule and Removal of Forms:

1. The Contractor shall submit for in the approval schedule of concrete pouring and location of construction joints to the architect or engineer of the institution at least four (3) days prior to pouring.
2. All chases and openings on slabs and walls shall be approved by the architect or engineer of the institution.

3. The Contractor shall furnish and maintain adequate forms and shoring until the concrete members have attained its curing period.

Work Item	Description
1. Foundation	Reinforced Concrete ("Class A" mixture, 1:2:4); with the necessary reinforcing bars as indicated in the structural plan.
2. Columns	Reinforced Concrete ("Class A" mixture, 1:2:4); with the necessary reinforcing bars as indicated in the structural plan.
3. Beams	Reinforced Concrete ("Class A" mixture, 1:2:4); with the necessary reinforcing bars as indicated in the structural plan.
4. Floor Slabs	
4.1 All Floor Slab	Reinforced Concrete ("Class B" mixture, 1:2.5:5); with the necessary reinforcing bars as indicated in the structural plan.
4.1.a Finishing	Non-skid tile
5. Walls	
5.1 Exterior Walls	4" Hollow Concrete Blocks (CHB) with concrete mix in the hollow core and with reinforcing bars as indicated in the Structural Plan. Plain Cement Plaster finished on both sides unless otherwise specified.
5.1.a Finishing	Semi-Gloss Latex by Boysen/Davies or equivalent
5.2 Interior Walls	Plain Cement Plaster in Paint coat finish by Boysen/ Davies or equivalent.
5.2.a Finishing	Paint Cement Plaster finish
5.2.b Divisions	
5.3 Molding	Plain Cement Plaster finish
5.3 Facade Accessories	N/A

4. CONCRETE PROPORTION AND CONSISTENCY

- a. The unit of measurement shall be cubic foot. One bag of cement shall be considered as one cubic foot. Water shall be measured as to ensure the desired quantity of successive batches.
- b. The re-tempering of concrete, i.e. mixing with additional cement, aggregate or water shall not be permitted.
- c. Water shall be removed from excavation before concrete is deposited. Any continuous flow of water into the excavation shall be directed through side drains to a slump or be removed by other approved methods to avoid washing the freshly deposited concrete and forms shall be thoroughly wetted.
- d. Concrete shall be conveyed to forms as rapidly as practicable, by methods which shall prevent segregation or loss of ingredients. There shall be no free vertical drop greater than 1.5 meters. Approval of BSU shall be obtained before starting any concrete pour. Concrete shall be worked readily into the corners and angles

- of the forms around all reinforcement and embedded items by depositing the concrete as close as possible to its final position in the forms.
- e. If possible, concreting shall be done continuous until section is completed. When stoppage of concrete operations occurs, construction joints shall be placed either horizontal or vertically as indicated by BSU and provided with shear keys or dowels to develop bond.
 - f. Pouring of concrete for foundations shall be done after BSU has verified the actual soil conditions at the site and approved the start of concreting. No footing shall rest on fill.
 - g. The contractor shall not pour any concrete until BSU inspects and approves the conditions of forms, reinforcement and embedment's.
 - h. For reduction or additions, on the contract sum due to deletion or extra involved, cast-in-place concrete shall be measured in cubic meter and payment shall be based on the actual volume using the unit prices on the proposal form.

5. CURING

All concrete shall be moist in an approved method of combination applicable to local conditions. Surface of the concrete shall be kept continuously wet by covering with water, by continuously spraying, or by covering with water, by continuously spraying, or by covering with burlap or other approved materials thoroughly saturated with water and keeping the covering wet by spraying or intermittent hosing. Water for curing shall be free from any elements which might cause objectionable staining or discoloration of the concrete.

6. REPAIR OF CONCRETE

- a. Imperfections shall be repaired and shall be completed within 24 hours after removal of forms.
- b. Fins shall be nearly removed from exposed surfaces.
- c. Damaged or honeycomb concrete must be removed to reach sound concrete and should be replaced with dry pack, rich mortar or concrete with pea gravel.
- d. Voids which appear upon the removal of forms shall be drenched with water and immediately filled with materials of the same composition as that used in the surface and smooth with a wood spatula or float.
- e. Large bulges and abrupt irregularities that protrude shall be removed by brushing, hammering and grinding.
- f. All materials, procedures and operations used in the repair of concrete shall be approved by BSU.
- g. The cost of materials, labor and equipment used in the repair shall be the sole responsibility of the contractor.

7. CONCRETE SLAB ON FILL

All concrete shall be moist in an approved method of combination applicable to local conditions. Surface of the concrete shall be kept continuously wet by covering with water, by continuously spraying, or by covering with water, by continuously spraying, or by covering with burlap or other approved materials thoroughly saturated with water and keeping the covering wet by spraying or intermittent hosing. Water for curing shall be free from any elements which might cause objectionable staining or discoloration of the concrete.

8. CONCRETE SLAB ON FILL

- a. Concrete slab on fill shall be laid on a prepared foundation. Sub-grade shall be rolled, rammed, or tamped layer by layered to a thoroughly compacted foundation.

9. CEMENT FINISH FOR CONCRETE AND CHB SURFACES

- a. All concrete surfaces including those indicated as "Cement Plaster" on drawings shall be given a fine finish.

- b. The cement surface shall be kept wet for four (4) hours before the required finish is applied.

10. INSPECTION

- a. Concrete shall be proportional, mixed, and placed in the presence of BSU representative, ample notice shall be given before mixing is recommenced.

11. CONCRETE HOLLOW BLOCKS

- a. Concrete hollow blocks shall be thoroughly wetted with water and embedded-in and cemented together with mortar. All blocks shall be laid plumb, true to line with level and accurately spaced courses breaking joints with the course below. Horizontal and vertical mortar joints shall be 3/8" thick with full mortar average on the face shells and the webs surrounding the cells to be completely filled. All blocks joints shall be struck flush to smooth even surface. Provide reinforcements as shown or specified and completely fill the cell with mortar to completely encase the reinforcement.
- b. Vertical and horizontal reinforcements shall be provided and hollow comes where such reinforcements run through shall be full filled with class "A" concrete. Unless otherwise indicated in the drawings, reinforcements shall consists of 10mm diameter vertical and horizontal bars spaced at 600mm on centers securely anchored to columns of frames and to the existing walls
- c. Mortar for joints and finishing plasters shall consist of one (1) part cement, (2) parts of sand, and minimum amount of water. Mortar joints shall be neatly trowelled and scraped of excess mortar.
- d. Prior to laying, blocks shall be uniformly moistened but not soaked; joints shall be neatly trowelled and scraped of excess mortar.

SECTION V- CARPENTRY WORKS AND LUMBER

1. SCOPE OF WORK

- a. The contractor shall furnish all labor, materials, tools, and services necessary to complete all rough and finish carpentry work shown on the drawings or herein specified.

2. GENERAL

- a. Lumber shall be well seasoned, dry and free from large, loose and unsound knots, spas, shakes or other imperfections that may impair its strengths, durability or appearance. All exposed wood work shall be smoothly dressed and well sand-papered.
- b. All moldings shall de mitered at corners and capped at angles. Factory made doors, transoms, and windows, completely assembled with sash fitted in place, shall be used upon approval

3. PLYWOOD BOARDS

- a. All plywood boards shall be of superior quality and thickness as indicated on plans.

4. FRAMES

- a. All framing doors and windows shall be done, as much as possible with carefully fitted mortise and tendon joints. Frames shall be rabbeted and cut with under cuts for water drips.

5. WALLS AND PARTITIONS

- a. Partitions shall be 1/2" thick plywood on 2" x 3" HORIZONTAL AND VERTICAL STUDS AT 500 mm O.C. both ways. All walls shall be doubled (unless otherwise specified), shall be kiln-dried on 2"x 3" superior quality framing.

6. MISCELLANEOUS WOODWORK

- a. All other items of wood work not mentioned in the specifications not included in those items specifically excluded from the building construction, and needed to complete woodwork, shall be done in accordance with shop drawings and to be furnished later.

7. CEILING

- a. Interior exterior ceiling shall be .4mmthick plywood on 19mm x 50mm double metal furring spaced at 600mm O.C. both ways or as specified on plans.

8. HARDWARES

- a. The contractor shall likewise furnish and install necessary hardware to leave the work complete, although not specifically mentioned herein. All such hardware shall conform in superior quality and finish to the rest of the hardware specified. Sample shall be approved by the BSU Architect or Engineer before installing.
- b. All door locksets shall be KW 400, Kwikset.
- c. All entrance doors for toilets shall be provided with door knobs and specified locks.
- d. 3½" x 3½" STANLEY. All flush doors with a width not more than 90cm. shall have three hinges, and four hinges, and four hinges for more than 90cm.

SECTION VI – TINSMITHRY and WELDING WORKS

1. SCOPE OF WORK

- a. The work consists of furnishing all labor, tools, equipment and materials needed in the performance of operations relative to the fabrication, delivery to site, and installation, completion as required and specified.

2. MATERIALS

2.a. Roofing

- a. Use 0.4mm pre-painted long span, rib type, dark green metal roofing.
- b. Sheet shall be laid with end laps as indicated on the drawings, the minimum end lap shall be 30mm and the minimum side lap shall be 2 ½" rib wide. Steel sheets shall be fastened to the purlins at every alternate corrugation.
- c. Ridges, valleys, and hips shall be pre-painted with minimum thickness of 0.4mm.
- d. Ridge rolls shall lap at least 30cm over the roofing sheets. The ridge roll shall be fastened to the roofing sheets at every alternate corrugation.
- e. Valley rolls shall lap at least 30cm over the roofing sheets. The ridge roll shall be fastened to the roofing sheets at every fourth corrugation.
- f. Flashing shall be pre-painted with minimum thickness of 0.4mm. For corrugated sheets whose corrugations run parallel to the walls, one wing of the flashing sheets shall be corrugated to match the corrugations of the roofing sheets and shall be wide enough to cover at least 3 corrugations. All fascia boards shall be installed with flashings.

2.b. Roof Framing

- a. Use 6mm x 50mm x 50mm Steel angles, fully welded.
- b. No part of the roof frame shall be exposed to weather especially moist and rain.

SECTION VII – DOORS AND WINDOWS

1. SCOPE OF WORK

- a. The contractor shall furnish all materials, labor, equipment, tools and services necessary to complete all work specified and shown on drawings.

This work shall include the installation of powder coated aluminum framing.

2. ALUMINUM WINDOWS

- a. The type of window shall be in accordance with the schedule of window indicated and as reflected on plans.
- b. Hardware and Operation. All hardware and other attachments necessary to ensure proper operations of ventilators shall be as per manufacturer's specifications.
- c. Window glass shall be of 6mm thick and 12mm thick for tempered specified designed for glazing from the outside.

3. DOORS

- a. The type of doors shall be in accordance with the schedule of doors indicated and as reflected on plans.
- b. Roll-up door shall be made of superior quality materials.
- c. Wooden doors shall be composed of materials as specified in the door schedule where lumbers should be well seasoned, dry and free from large, loose and unsound knots, saps, shakes or other imperfections that may impair its strengths, durability or appearance. All exposed wood work shall be smoothly dressed and well sandpapered.

4. DIMENSION TO BE VERIFIED

- a. All dimensions of openings as shown on drawings must be verified by the contractor.

SECTION VIII – PAINTING WORKS

1. GENERAL

- a. The manufacturer's painting specification for Davies/Boysen paints or equivalent shall be considered as part of these specifications.

2. SCOPE OF WORK

- a. The contractor shall furnish all labor, equipment, materials and services required to complete the entire painting work herein called for. Painting work shall include the painting of all interior and exterior masonry work, wood work, metal work, wallboards, etc., as specified herein after the required there to.
- b. The contractor shall be furnish all tools, brushes, spraying equipment, tackles, scaffolding, ladders, pails, pans and other equipment required to complete the entire painting work.

3. WORKMANSHIP

- a. All work shall be done by skilled painters in a workman like manner by being brushed or sprayed on the surfaces. All paints etc., shall evenly applied so as to be free from sags, runs, crawls, or other paint defects. All coats shall be of minimum brush marks. All brushes shall be clean and in good condition, heavy brushes are preferred.
- b. All paints shall be thoroughly stirred so as to keep the pigment evenly in suspension when paint is being applied.
- c. No paintings shall be done under conditions that are unsuitable for the production of good results. No oil painting shall be done on damp weather.
- d. All coats shall be thoroughly dry before the succeeding coat is applied. Allow at least twenty-four (24) hours between coats unless otherwise specified by the manufacturer.
- e. Painting coats are specified and intended to cover surfaces perfectly, if surfaces are not fully covered, further coats shall be applied to attain the desired evenness of the paint application.

- f. All parts of the molding shall be left clean and true to details. All findings shall be uniform as to sheen, color, and texture except when glazing is required.

4. MATERIALS

- a. All paints and painting materials shall be as manufactured by Boysen or Davies Paints Philippines Inc. or equivalent.
- b. All paint materials shall be delivered at the site in their original containers, with labels intact and seals unbroken.
- c. With the exception of ready-mixed materials in original containers all mixing shall be done at the jobsite. No materials are to be reduced or changed except as specified by the manufacturer of the said materials. The use of white zinc (lithopone) will not be allowed.
- d. A place will be designated by the BSU architect or engineer for the storage of paint materials and tools. Whenever it may be necessary to change the location of his storage space, the contractor shall promptly move to the newly designated place. The storage space floor shall be adequately protected from damage and from paint. Paints shall be kept covered at all times and safeguarded to prevent fire.

5. COLORS

- a. All colors of paint and varnishes shall be in accordance with color scheme as approved by BSU.

6. PROTECTION

- a. Protect all electrical plates, surface hardware, etc. during the painting operations.
- b. All floors, other surfaces and equipment shall be protected during the painting operations by any method acceptable and approved by the BSU Architect or Engineer.

7. PREPARATION OF SURFACES

- a. Before applying paint finish, all surfaces must be thoroughly dry, clean and free from dust, grease, and dirt and properly prepared to receive finish. Boysen/Davies paint or equivalent and Varnish Remover shall be used.
- b. No painting shall be done at any time unless the surface to be treated is thoroughly dry. The contractor shall inspect all surfaces to be painted and shall report all defects therein to the BSU architect or engineer prior to painting. The architect or engineer will cause these defects to be remedied. The commencing to the work by the contractor indicates his acceptance of the surface to be painted.
- c. Wood surface shall be sand papered to a smooth and even surface duster. Blemishes on surfaces to be varnished shall be corrected. After primer stain coat all cracks and nail holes shall be filled with putty. Putty used in stained work shall match the stained wood.
- d. Brick, stucco, and concrete surfaces shall be free from excess mortar. Treat surfaces with Davies/Boysen or equivalent Masonry Neutralizer brushing the surface free of loose crystals when dry. New plaster must be allowed to dry thoroughly. Places in walls must be repaired with plastic patch-deep holes with matching plaster.
- e. Metal surfaces shall be cleaned, free of mill scale, rust and foreign matter by scrapping flame cleaning, sand blasting or wire brushing. Loosed and scaling point shall be scraped and fire-brushed to sound metal surface.
- f. Manufacturer's requirements for preparation of surfaces shall be considered apart of these specifications.

8. PAINTING SCHEDULE

a. Wood (ceiling)

Skim Coat : Boysen/ Davies or equivalent

Primer : Boysen/Davies or equivalent Flat Wall Enamel (verify color)

Second Coat : Boysen/Davies or equivalent Flat Latex, (verify color)

Third Coat : Boysen/Davies or equivalent Semi-gloss, Latex (verify color)

b. Exterior Wall

Skim Coat : Boysen/Davies or equivalent

Primer : Boysen/Davies or equivalent Acrytex Cast B_5715

Second Coat : Boysen/Davies or equivalent Wallguard, Semi-gloss Latex (verify color)

Third Coat : Boysen/Davies or equivalent Wallguard, Semi-gloss Latex (verify color)

c. Interior Wall

Skim Coat : Boysen/Davies or equivalent

Primer : Boysen/Davies or equivalent Flat Latex

Second Coat : Boysen/Davies or equivalent Semi-gloss Latex (verify color)

Third Coat : Boysen/Davies or equivalent Semi-gloss Latex (verify color)

d. Other Wood Surfaces

Baseboard : Boysen/Davies or equivalent (verify color)

Door Leaf : Boysen/Davies or equivalent (verify color)

Door Jamb : Boysen/Davies or equivalent (verify color)

SECTION IX – PLUMBING AND WATER SERVICE SYSTEM

1. SCOPE OF WORK

a. The works shall include the following;

- Supply and the installation of pipes and fittings for all sanitary lines and water line.
- Supply and installation of all plumbing fixture shown in the drawings and described in this specification.
- Installing a system of drain, soil, vent, waste and building sewer.
- Connecting building sewer to the constructed septic tank.

2. GENERAL

a. Piping shall be standard G.I. Pipe schedule 40 of size as indicated on the drawing or as specified herein. The main service line shall connect to the water tank.

b. Minimum fairly constant, service pressure at a point outlet discharge shall not be less than 8 psi for all fixtures except for direct flush valves, for which it shall not be less than 15 psi and except where special equipment is used requiring higher pressure.

c. Piping for sanitary lines shall be standard PVC pipe. Water closets, urinals, lavatories, sink and floor drain pipes shall connect water directly to soil pipes leading to the septic tank. Every water closet and lavatory shall be provided with individual shut-off. Every plumbing fixture shall be separately provided with vented vitae sealed trap placed close to the fixtures. The open and end of the vent pipes shall

be entirely covered with no.16 mesh copper wire. Floor drains shall be nicked plated.

- d. The body of clean-out ferrules shall conform the thickness of the required pipe and fittings of the same material, and shall extend not less than one quarter inch (1/4") above the hub. The Clean-out plug shall be provided with raised nut of recessed socket from removal, in accordance with the American Standard Tapered Pipe Threads.
- e. Clean-out shall be of the same nominal size as the pipes up to four (4") inches and not less than four (4") inches for larger pipes.

3.PERFORMANCE TEST

- a. It shall be the responsibility of the contractor to test all the system of the entire plumbing installation for proper operational condition. The test shall be conducted in the presence of the BSU Project Architect or Engineer.

4. MATERIALS

- a. All plumbing fixtures shall be within the Philippine Standard.

5. PLUMBING FIXTURES AND ACCESSORIES

- a. Water Closet and Lavatory and Fittings - American Standard
- b. Stainless Kitchen Sink with drainboard 450mm x 800mm porcelain
(complete w/ fittings)

6. INSTALLATION

- a. All fixtures shall be installed firmly and carefully to avoid injury to the item. They shall be installed with high quality workmanship to the satisfaction of BSU.

SECTION X - ELECTRICAL WORK

1. SCOPE OF WORK

- a. Work covered by this specification shall include furnishing all labor, materials, equipment and services required to construct and install the complete electrical system shown on accompanying plans and specified herein. All work shall be in accordance with the governing codes and regulation and with the specifications, except when the same shall conflict with such codes, etc., in which case the latter shall then govern.
- b. Under this section of the specifications, the contractor shall provide all materials and equipment and perform all the work necessary for the drawings as herein specified; except as otherwise excluded, as which without excluding the generality of the foregoing, shall include but not limited to the following principal items of work.
 - A complete wiring for the exterior and interior lighting and power system, including all feeders, branch circuit and connections to all lighting power outlets.
 - All general lighting fixtures and lamps
 - Grounding system of all electrical equipment
 - Optional items of work
 - If anything has been omitted in any items of work on materials usually furnished, which are necessary for the completion of the electrical works as outlined herein before, such must be hereby included in this section of the work.

2. CODES, REGULATIONS AND ORDINANCES

- a. The electrical items under this contract is to be installed according to the requirements of the latest Philippine Electrical Code, the rules and regulations of the Authority concerned and the requirements of the Power Company. Nothing contained in these specifications or shown on the drawings shall be construed as to the conflict with the National and Local Ordinances or Laws governing the installation of electrical work, and all laws and ordinances are hereby made part of these specifications, the contractor is required to meet the requirements thereof.

3. PLANS AND DRAWINGS

- a. The contract drawing, which constitutes an integral part of this contract, shall serve as working drawings. They indicate the general layout of the complete electrical system and show arrangements of feeders, circuits, outlets, switches, control panel board, fixture and other works.
- b. The Contractor shall follow all plans to avoid possible installation conflicts. Should drastic changes from the original plan be necessary to resolve such conflicts, the contractor shall notify the BSU Architect or Engineer and shall secure from him written approval and agreement concerning necessary changes and adjustments before alteration of the installation work will commence.

4. MINOR MODIFICATIONS

- a. The plans as drawn are based upon architectural plans and details and show conditions as accurately as possible to indicate them in scale. The plans are diagrammatical and do not necessarily show all fittings, etc., necessary to fit the conditions. The locations of lighting fixtures, convenience outlets, and switches shown on plan are approximate.

5. MATERIAL STANDARDS

- a. All materials shall be new and shall conform to the standard specified in the Philippines Electrical Codes and other such as IEEE for every case where such a standard has been established for the particular type of materials in questions.
- b. All materials on all systems shall comply with the following specifications, unless specifically accepted, and all materials where not specified shall be of the best of their respective kind.
- c. Sample of all materials shall be submitted for approval as required by BSU.
- d. All electrical materials shall be new and shall meet the requirements and shall bear the inspection label, wherever standards have been established.
- e. The entire installation shall be free from improper ground and from short circuits.
- f. It shall be the responsibility of the contractor to test all the systems of the entire electrical installations for proper operational condition.
- g. The contractor shall do all the cutting and fitting required for the installation of the electrical items and coordinate with the work of other trades, in accordance with the drawings and in the manner satisfactory to BSU.

6. WIRE AND CABLE

- a. All wires shall be copper, soft-drawn and annealed, shall be of 98% conductivity shall be smooth and fine of a cylindrical form and shall within the actual size called for.
- b. All wires and cables shall comply with the requirements as to the particular usage.
- c. All wires and cables for lighting and power system shall be moisture and heat-resistant rubber or thermoplastic insulate.
- d. No wire smaller than # 12 shall be used for convenience outlet.
- e. All wires and cables shall be as manufactured by PHELPS DODGE.

7. PIPES

- a. Wiring shall be done in RSC and CPC pipe, for steel conduit, it shall be of standard weight mild steel hot galvanized, with an interior coating.
- b. Wiring running on walls shall be in a 20mm PVC molding.
- c. No wire shall be pulled into any conduit until the conduit system is completely in all details and in the case of concealed work.
- d. The end of all conduits shall be tightly plugged to exclude plaster, dust and moisture while the building is in the process of construction. All conduit ends shall be reamed to remove all burrs.

8. OUTLETS BOXES AND FITTINGS

- a. All outlets of whatever kind for all system there shall be provided suitable fitting, which shall be either a box or other device especially designed to receive the type of fittings to be mounted thereon.

9. JUNCTION AND PULL BOXES

- a. Junction and pull boxes (PVC) shall be provided as indicated or as required for facilitating and pulling of wires and cables. Junction and pull boxes in finished places shall be located and installed with the permission and to the satisfaction of the BSU Architect and Engineer.

10. WALL SWITCHES

- a. Wall switches shall be rated at 15 amperes, 240 volts, one way or as required.

11. INDIVIDUAL BREAKER AND SWITCHES

- a. Provide individual circuit breakers, safety switches and disconnect switches as where indicated. Voltage ratings shall be suitable in each case of service application.
- b. Enclosure shall be in General Purpose and shall be almost all the requirements and specifications of the Philippine Electrical Code.
- c. Breakers shall be capable of being closed and operated by hand without employing any other source of power.
- d. Safety and disconnected switches shall be fusible and non-fusible as required end of sizes as indicated in plans.

12. LIGHTING SYSTEM

- a. The lighting system shall be complete in every respect, all indicated on the plan or specified.
- b. All works for the lighting system inside the ceiling shall be done utilizing knob and tube work and lighting circuits shall be balanced at panels.
- c. Mounting heights of devices shall be as follows;
 - Local switches 4' to 5'
 - Convenience outlet 12" above the floor or above the counters, or as directed by the BSU Engineer / Architect.
- d. Install all lighting fixtures and lamps as specified or at the locations shown in plans or as directed by BSU engineer or architect. All lighting fixtures to be installed shall be LED or CLF.
- e. Submit samples of each fixture to the BSU architect for approval prior to installation.

SECTION XI – GENERAL CLEANING AND DEMOBILIZATION

1. SCOPE OF WORK

- a. Upon the completion, the contractor shall remove from the building all the materials and debris created by him, and leave his part of the work in a clean and finished condition acceptable to the owner. Washing and polishing of window glass and all other glazing works shall be done by him.

SPECIAL PROVISIONS

1. START AND COMPLETION OF WORK

The contractor shall start the work within five (5) calendar days after specified date in the notice to proceed given to by BSU and he shall complete the work within the agreed number of calendar days.

All salvage materials shall be turned over to the BSU main campus storehouse.

2. CONSTRUCTION MEN IDENTIFICATION

The contractor shall provide all his men working in the project with identification cards at the project site that BSU required.

3. ACCIDENT

The contractor shall provide, at the site, such medical facilities which are necessary to supply the first aid of anyone who may be injured in connection with the work. The contractor must promptly report in writing to BSU all accidents whatsoever arising out of or in connection with the performance of the work, whether on, or adjacent to the site, which cause death, personal injury, on property damages giving full details and statement of witnesses.

4. COST AND FIGURE DISCREPANCIES

In case of discrepancies between costs and total bid cost, the latter shall govern. In case of error between price in words and figures occurs, the price in figures shall be considered as the bid.

5. PROTECTION

The contractor shall protect the work of all other trades against damage or injury by his employee, or by his material, tools or utensils used in connection with this contract. Any damage done by him or his employees shall be repaired at his own expense, without any additional compensation beyond the contract price.

The contractor shall be held responsible for the repairs to have own or other made necessary by the defective workmanship or careless of other crafts.

Any damage to any part or part of the structure of the structure of the building caused by the contractor shall be repaired at his own expense.

6. WARRANTY AND GUARANTEES

The contractor shall guarantee all works specified are free from the defective workmanship and materials, and will remain so far for a period of 1 year from the date of acceptance of the work. Any defects, appearing within the aforesaid period, shall be remedied by the contractor at his own expense.

7. WORKMANSHIP

The work throughout shall be executed in the best and most thorough manner under the redirection of and to the satisfaction of the BSU Engineer and Architect and shall have the power to reject any works and materials which, in his judgment, are not in full accordance therewith.

8. MANNER OF PAYMENT

The contractor shall be paid through progress billing and shall submit a request for the payment corresponding to the percentage of work accomplished with statement of work accomplishment and the project photos before and after each activity as attachment. Such request shall be verified by the monitoring and inspection committee or its duly appointed representative. Benguet State University shall have the right to deduct from the contractor's progress billing such amount as may be necessary to cover the third party's liabilities, as well as the uncorrected defects in the projects.

The payment shall be subjected to retention of ten percent (10%) referred to as the "retention money" in accordance with pertinent provisions of RA 9184.

Section VII. Drawings



Please see attached plans and designs

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.

Please see attached Bill of Quantities and Detailed Estimates

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. *The mandatory provisions of Required Forms shall be considered as per GPPB Circular No. 4-2020; or*
- c. 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) **in accordance with Section 8.5.2 of the IRR;**

Technical Documents

- b. 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, **(Sample Form is in Section X); and:**
- c. Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules. SLCC shall be supported by an Owner's Certificate of Final Acceptance issued by the project Owner other than the contractor or the Constructors Performance Evaluation System (CPES) Final Rating, which must be at least satisfactory. In case contracts with the private sector, an equivalent document shall be substituted **(Sample form of SLCC is in Section X)**
 1. For owner's Certificate of Acceptance, which shall contain the following:
 - i. Name of project owner that issued the certificate;
 - ii. Name of Contractor/ constructor
 - iii. Name of Contract; and
 - iv. Contract Duration
 2. For CPES rating, a final rating of at least Satisfactory.

and

- d. Valid PCAB License, or
- e. Special PCAB License in case of Joint Ventures **and** registration for the type and cost of the contract to be bid; **and**
- f. 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 **(please see attached sample forms in Section X); and**
- g. Project Requirements, which shall include the following:
 1. Organizational chart for the contract to be bid;
 2. List of contractor's key personnel, to be assigned to the contract to be bid, with their complete qualification and experience data;

Key Personnel	No. of Personnel	General Experience	Relevant Experience
Site Engineer/ Site Architect	1	At least 3 years	At least 3 years
Safety Officer – Part time, with COSH training from accredited provider by DOLE	1	At least 3 years	At least 3 years
Electrical Engineer/ Registered Master Electrician	1	At least 3 years	At least 3 years
Sanitary Engineer/ Registered Master Plumber	1	At least 3 years	At least 3 years
Construction Foreman	1	At least 3 years	At least 3 years

3. 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**
4. Certificate of Site Inspection - to be signed by any authorized representative from the Project Management Unit (PMU); and
- h. 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

- i. The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (*See sample form in Section X*), which shall contain the following mandatory provisions:
 1. Name of the Project to be bid;
 2. ABC to be bid;
 3. Amount or value of bidder's current assets based on Audited Financial Statements (AFS);
 4. Amount or value of bidder's current liabilities based on AFS; and
 5. Amount or value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started. Coinciding with the contract to be bid

Class "B" Documents

- j. 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

k. Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- l. Original of duly signed Bid Prices in the Bill of Quantities (must have signature box in each and every page); **and**
- m. 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 (must have signature box in every page); **and**
- n. Cash Flow by Quarter; and
- o. Soft Copy (in Flash drive) of bill of quantities and detailed estimates to be included in the "original copy" of the bid.

Notes:

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

- a. This checklist is only a guide to the prospective bidder/s. Each prospective bidder shall take responsibility to ensure the completeness of its submission after taking the steps to carefully examine all of the Bidding Documents and its amendments.*
- b. All photocopied documents shall be marked "certified true copy of the original document" with corresponding signature over printed name of the bidder or its duly authorized representative and indicating the position in the company.*
- c. Bidder shall follow the sequence of items in the checklist of documents for submission and use tabs to facilitate the inspection process.*
- d. Incomplete required documents and expired licenses/ permit shall be a ground for disqualification*
- e. The documents that will be submitted by the bidder shall be used for procurement purposes only.*

Section X. Bidding Forms

1. Bid Form
2. Bid Securing Declaration Form
3. Net Financial Contracting Capacity (NFCC) Form
4. Statement of Single Largest Completed Contract (SLCC)
Form
5. Statement of All Ongoing Government & Private
Contracts Form
6. Omnibus Sworn Statement (Revised)

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

BID FORM

Date: _____

Project Identification No.: _____

To: [name and address of Procuring Entity]

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

We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: [insert name of contract];

We offer to execute the Works for this Contract in accordance with the PBDs;

The total price of our Bid in words and figures, excluding any discounts offered below is: [insert information];

The discounts offered and the methodology for their application are: [insert information];

The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,

Our Bid shall be valid within a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;

If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines² for this purpose;

We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;

We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].

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

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

² currently based on GPPB Resolution No. 09-2020

Bid Securing Declaration Form

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

REPUBLIC OF THE PHILIPPINES)

CITY OF _____) S.S.

BID SECURING DECLARATION

Project Identification No.: *[Insert number]*

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We shall enter into contract with the PE and furnish the required performance security within ten (10) calendar days, from receipt of the Notice of Award.
4. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

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

[Jurat]

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

Project Identification No. _____
Project Title: _____
ABC of the Project/Lot/Item to be Bid: _____

CERTIFICATE OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)
(Please show computation)

This is to certify that our Net Financial Contracting Capacity (NFCC) in Philippine Pesos _____ (₱ _____) is at least equal to the total ceiling price of the goods/services/works we are bidding. The amount is computed as follows:

$$\text{NFCC} = (\text{CA} - \text{CL}) (15) - \text{C}$$

Where:

CA = Current Assets

CL = Current Liabilities

C = value of all outstanding or uncompleted portions of contracts/projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract of the bid.

Issued this _____ day of _____, 20____.

(Company Authorized Representative)

NAME:

DESIGNATION:

Note: Kindly attach supporting documents

Procuring Entity: Benguet State University

Name of Project:

Location of the Project:

Statement of Single Largest Completed Contract (SLCC) which is Similar in Nature

Business Name: _____

Business Address: _____

Name of Contract	Date of Contract	a. Owner's Name b. Address c. Telephone Nos. d. Contact Person e. Email Address	a. Date Awarded b. Contract Effectivity	Contract Amount	Contract Duration	1. Date of Completion f. Amount of Completed contract	Date of Final Acceptance	Description/s of the similar project/s
<u>GOVERNMENT</u>								
<u>PRIVATE</u>								

Note: Kindly attach documents to support the above statements (Notice of Award, Notice to Proceed, Contract, Certificate of Completion, Certificate of Final Acceptance, CPES)

Submitted by : _____

Print Name and Signature

Designation : _____

Date : _____

Procuring Entity: *Benguet State University*

Name of Project:

Location of the Project:

Statement of All Ongoing Government & Private Contracts Including Contracts Awarded but Not Yet Started

Business Name:

Business Address:

Name of Contract/Location (A)	Date of Contract (B)	Project Duration (C)	a. Owner's Name b. Address c. Telephone Nos. d. Contact Person e. Email Address (D)	Nature of Work (E)	a. Date of Award b. Date Started c. Date of Completion (F)	Contract Amount (G)	% of Accomplishment		Value of Outstanding Contract (J) (G-I)
							Planned (H)	Actual (I)	
<u>GOVERNMENT</u>									
<u>PRIVATE</u>									

Note: Kindly attach documents to support the above statements (Notice of Award, Contract, Notice to Proceed and other documents). All spaces should be filled out with correct information.

Submitted by : _____

Print Name and Signature

Designation : _____

Date : _____

Omnibus Sworn Statement

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

AFFIDAVIT

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

1. Select one, delete the other:

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

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

2. Select one, delete the other:

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

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

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
6. ***Select one, delete the rest:***

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

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

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a) Carefully examining all of the Bidding Documents;
 - b) Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute**

criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE]

[Insert signatory's legal capacity] Affiant

[Jurat]

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



THIS SITE

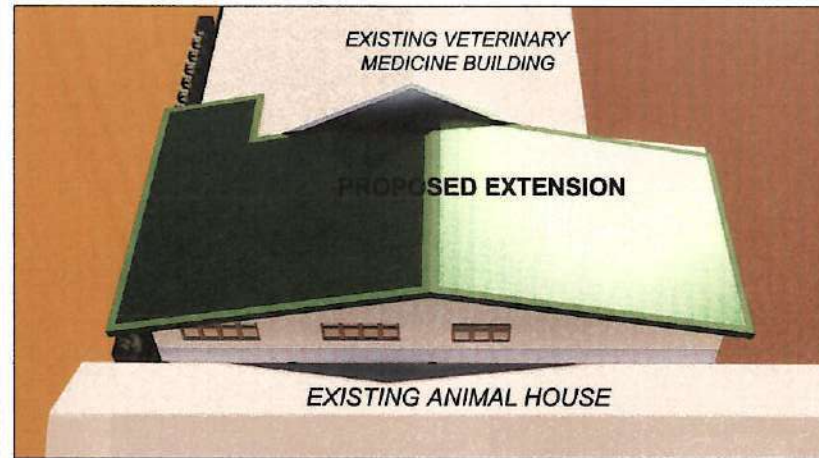
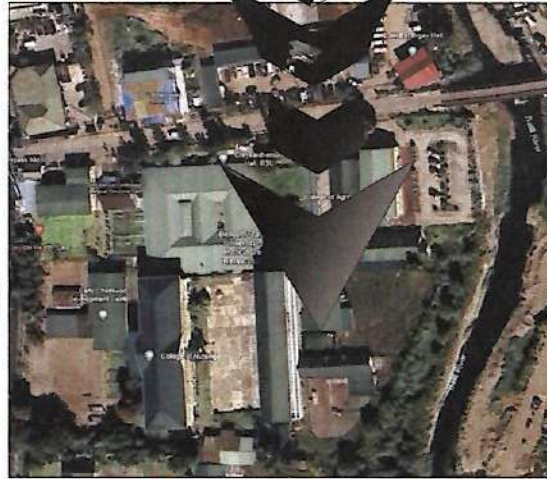
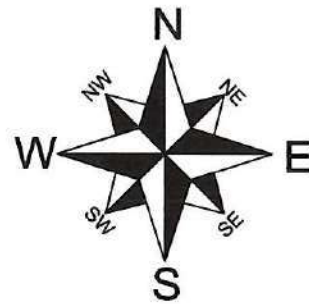


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A8	ROOF PLAN
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE REGIONAL ENGINEER
MUNICIPALITY OF LA TRINIDAD, BENGUET PROVINCE

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

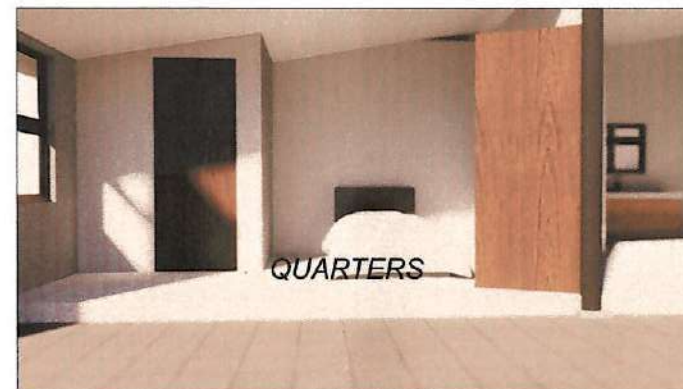
ELECTRICAL

SANITARY

MECHANICAL

BFP CHIEF

A2 VICINITY MAP 02 - 02 SCALE not to scale



A2 INTERIOR AND EXTERIOR PERSPECTIVES 02 - 02 SCALE not to scale

ARCH. HAZELINE N. TIBANGAY,
UAP
PRC REG. NO. 028540 - NOV.18, 2024
PTR NO. - LA TRINIDAD -
ARCHITECT

ENGINEER

DRAFTED BY:
MAYLYN A. DE VERA
MARCH 21, 2024



OWNER/ PROJECT TITLE/ LOCATION
" PROPOSED EXTENSION AT
THE SOUTHERN AREA
(REAR) OF THE
VETERINARY TEACHING
HOSPITAL"
KM.5, BSU COMPOUND, LA TRINIDAD,
BENGUET

CONFORME:

DR. RICHARD P. DUMAPIS
END-USER, BSU VETERINARY TEACHING HOSPITAL

RECOMMENDING APPROVAL:

ALLAN CASALDO SACPA
SECTOR VICE PRESIDENT

APPROVED:

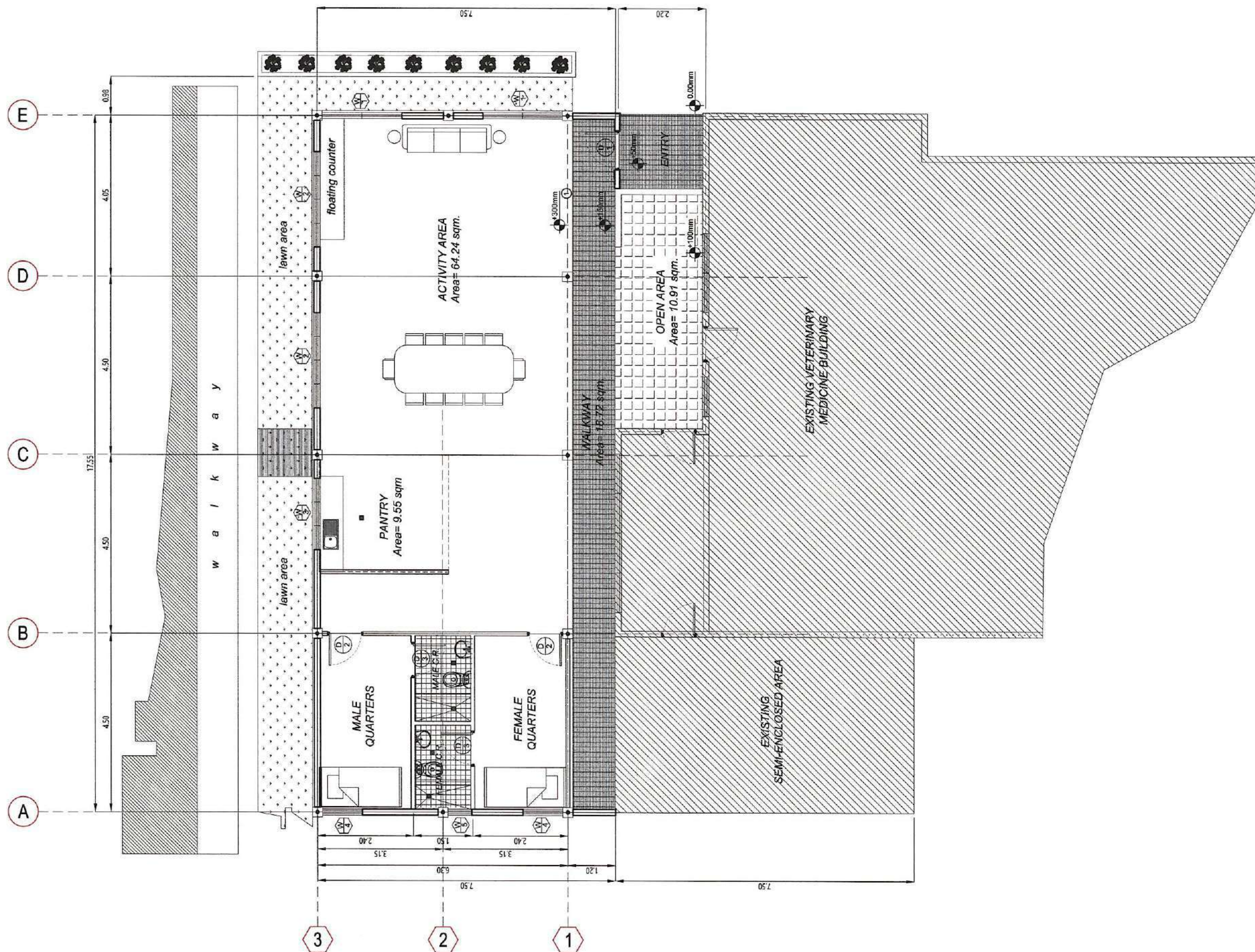
FELIPE SALAING COMILA
PRESIDENT

SHEET CONTENT:

AS SHOWN

SHEET

A1 12
22



ARCH. HAZELINE N. TIBANGAY,
UAP
PRC REG. NO. 028540 - NOV.18, 2024
PTR NO. _____ - LA TRINIDAD - _____

ARCHITECT

ENGINEER

DRAFTED BY: MAYLYN A. DE VRIES
MARCH 21, 2023



OWNER/ PROJECT TITLE/ LOCATION

" PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL"

KM.5, BSU COMPOUND, LA TRINIDAD,
BENGUET

CONFORME:

DR. RICHARD P. DUMAPIS

END-USER, BSU VETERINARY TEACHING HOSPITAL

RECOMMENDING APPROVAL:

ALLAN CASALDO SACPA

SECTOR VICE PRESIDENT

APPROVED:

FELIPE SALAING COMILA

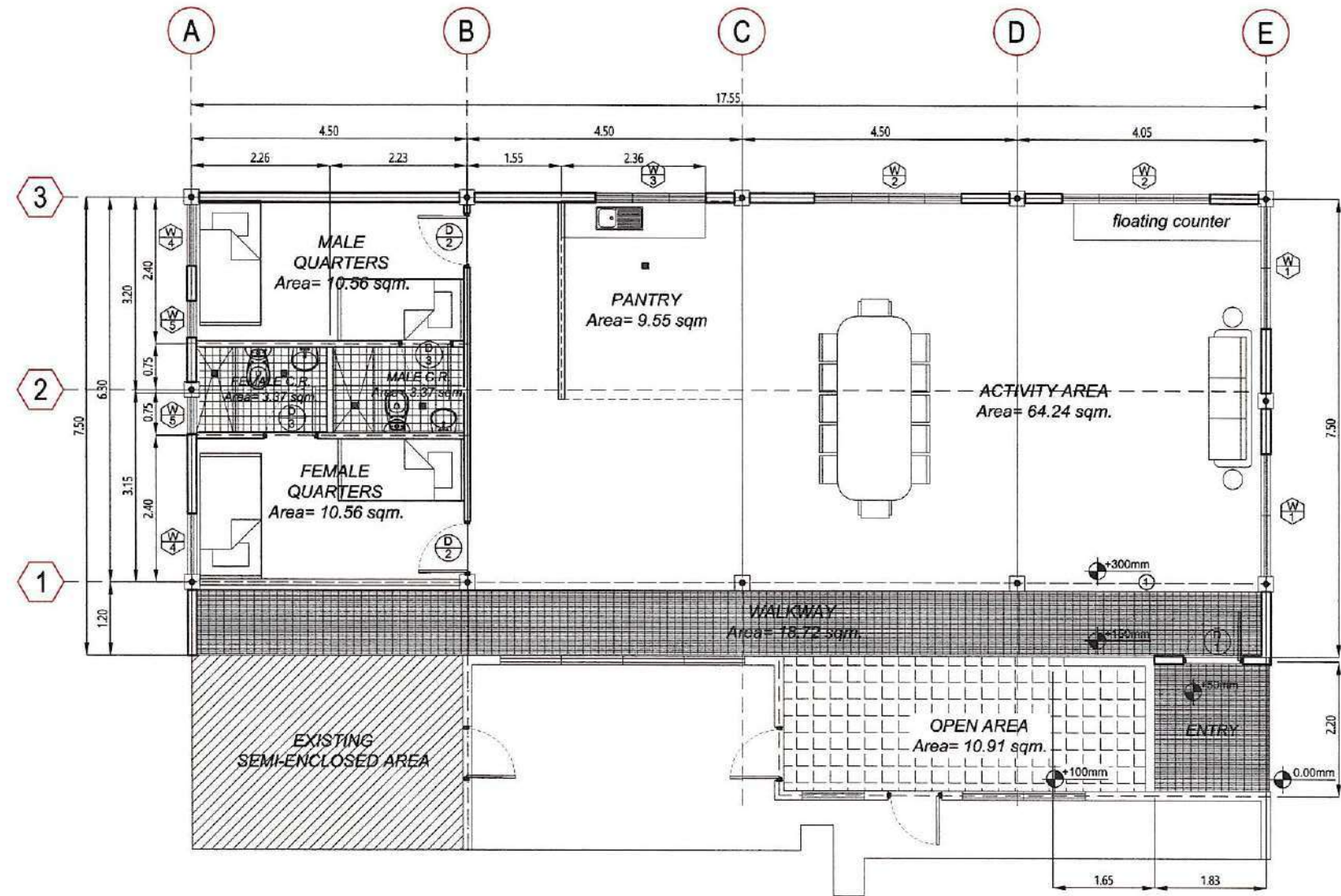
PRESIDENT

SHEET CONTENT:


AS SHOWN

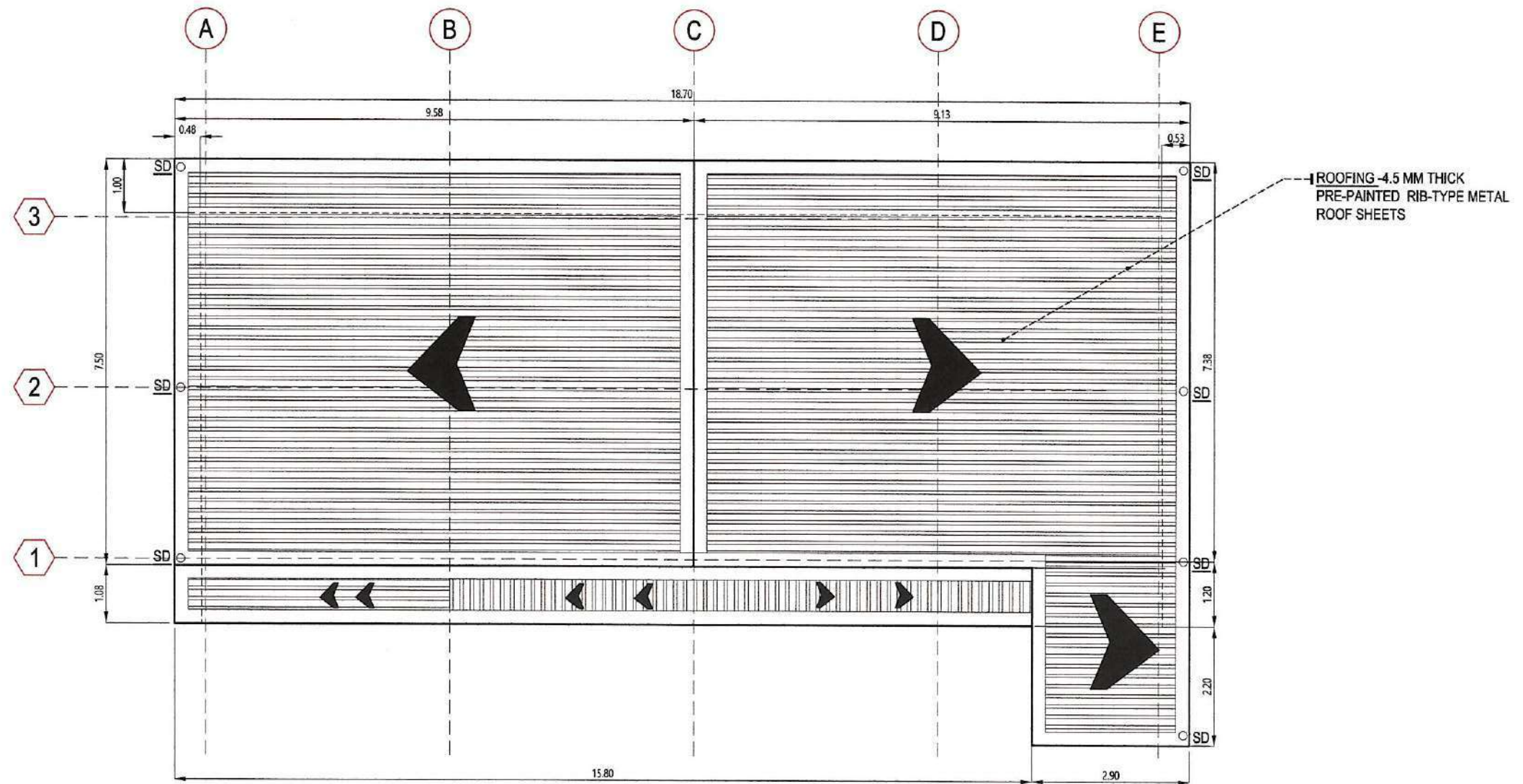
SHEET

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22










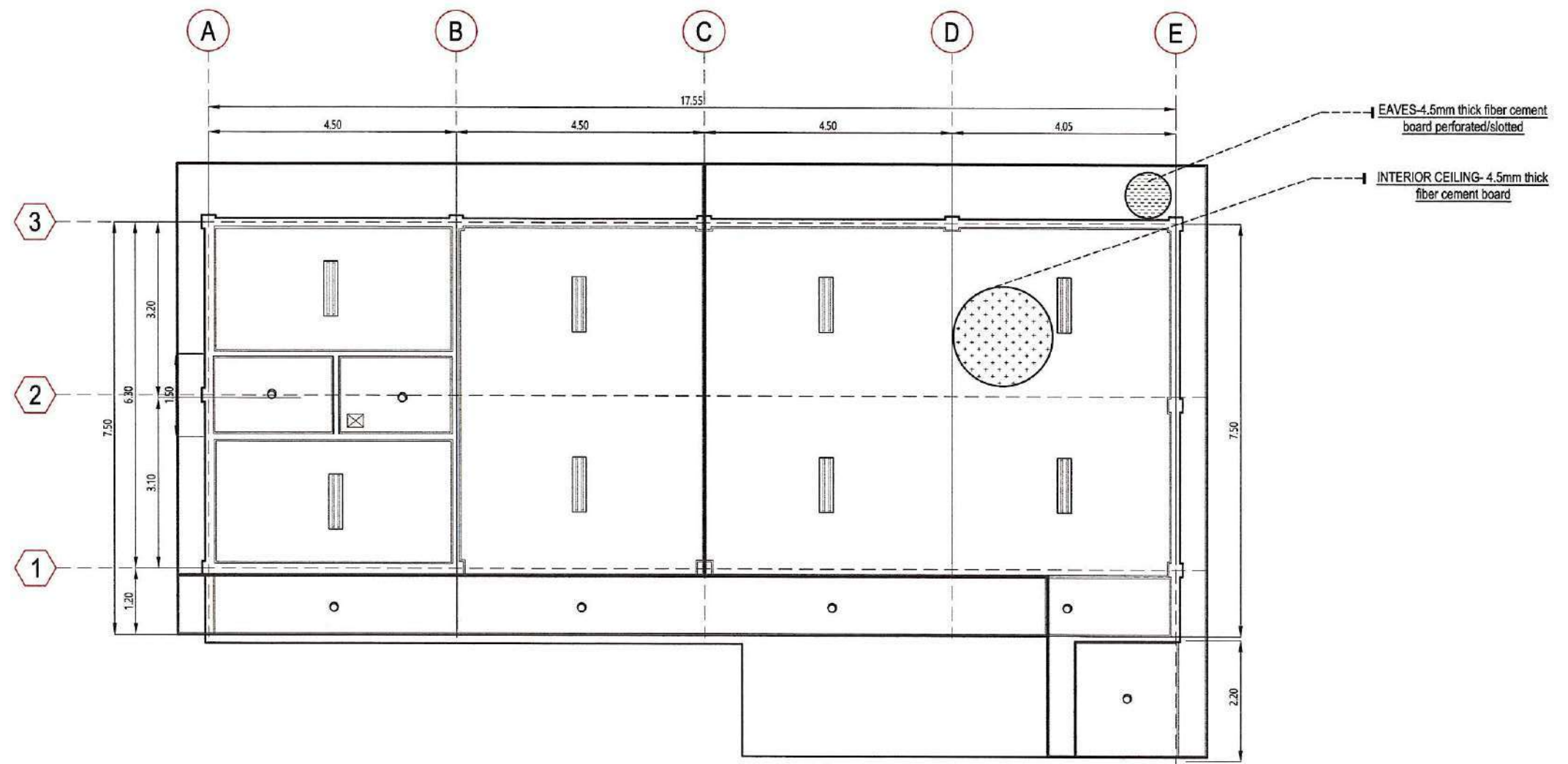
A1 PROPOSED EXTENSION FLOOR PLAN
01 - 01 SCALE
1: 100 meters

<p>ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV. 18, 2024 PTR NO. - LA TRINIDAD -</p> <p>ARCHITECT</p>	<p>ENGINEER</p>	<p>DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024</p> 	<p>OWNER/ PROJECT TITLE/ LOCATION</p> <p>" PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL"</p> <p>KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET</p>	<p>CONFORME:</p> <p>DR. RICHARD P. DUMAPIS</p> <p>END-USER, BSU VETERINARY TEACHING HOSPITAL</p>	<p>RECOMMENDING APPROVAL:</p> <p>ALLAN CASALDO SACPA</p> <p>SECTOR VICE PRESIDENT</p>	<p>APPROVED:</p> <p>FELIPE SALAING COMILA</p> <p>PRESIDENT</p>	<p>SHEET CONTENT:</p> <p>AS SHOWN</p>	<p>SHEET</p> <p>A5 12 22</p>
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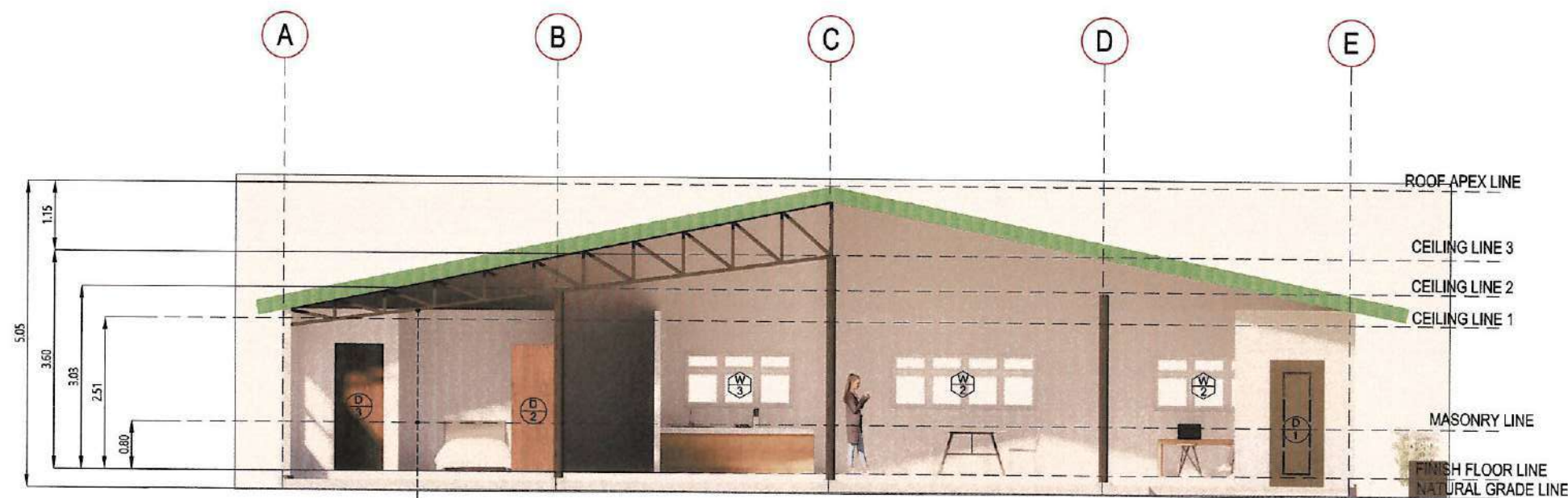
A1 ROOF PLAN
01 - 01 SCALE 1: 100 meters

 ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT	 ENGINEER	 OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:  DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	RECOMMENDING APPROVAL:  ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	APPROVED:  FELIPE SALAING COMILA PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET 
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A1 REFLECTED CEILING PLAN
01 - 01 SCALE 1:100 meters

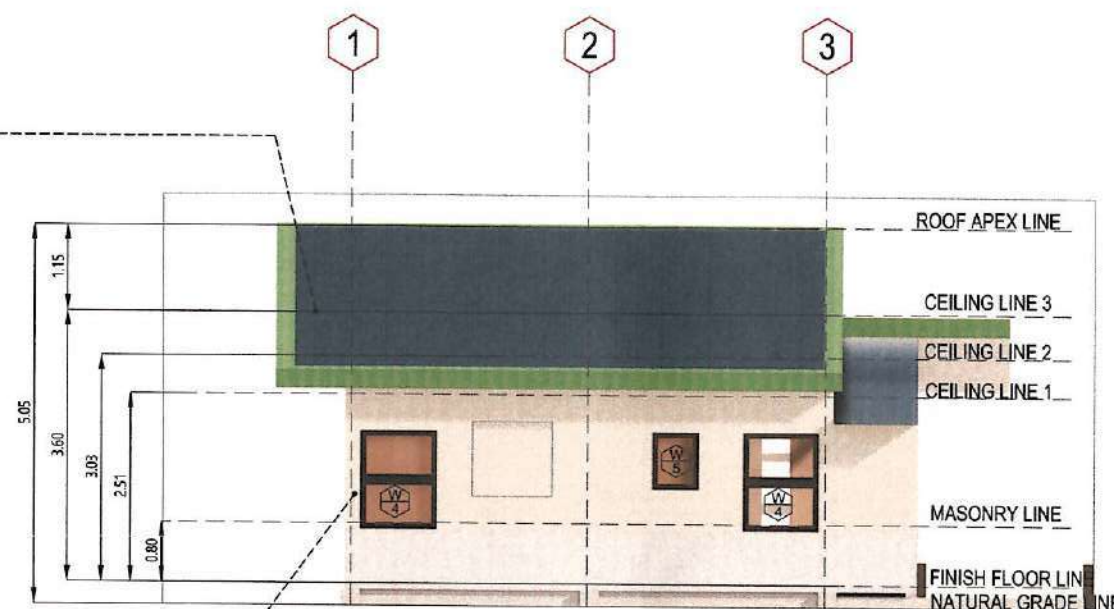
 ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT		DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024 	OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:  DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	RECOMMENDING APPROVAL:  ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	APPROVED:  FELIPE SALAING COMILA PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET 
--	--	--	--	---	--	---	----------------------------	--



A1 FRONT SECTIONAL ELEVATION
01 - 01 **SCALE** 1: 100 meters

INTERIOR WALL AND CEILING - 4.5 MM THICK FIBER CEMENT BOARD

ROOFING - 4.5 MM THICK PRE-PAINTED RIB-TYPE METAL ROOF SHEETS



A1 LEFT SIDE ELEVATION
01 - 01 **SCALE** 1: 100 meters

EXTERIOR WALL CLADDING - 100mm x 4.5 MM THICK MINI RIB-TYPE PRE-PAINTED METAL CLADDING

ARCH. HAZELINE N. TIBANGAY,
UAP
PRC REG. NO. 028540 - NOV.18, 2024
PTR NO. - LA TRINIDAD -
ARCHITECT

ENGINEER

DRAFTED BY:
MAYLYN A. DELA CRUZ
MARCH 21, 2024



OWNER/ PROJECT TITLE/ LOCATION
" **PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL**"
KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET

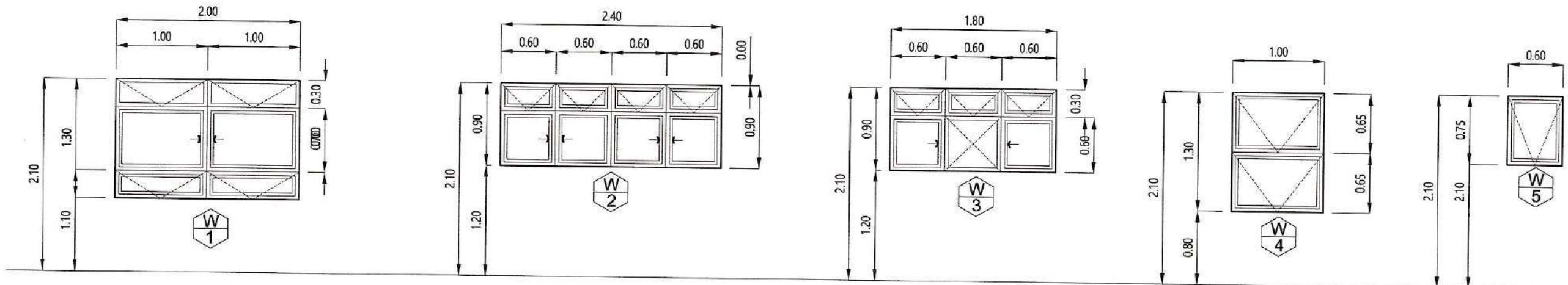
CONFORME:
DR. RICHARD P. DUMAPIS
END-USER, BSU VETERINARY TEACHING HOSPITAL

RECOMMENDING APPROVAL:
ALLAN CASALDO SACPA
SECTOR VICE PRESIDENT

APPROVED:
FELIPE SALAING COMILA
PRESIDENT

SHEET CONTENT:
AS SHOWN

SHEET
A8 12
22



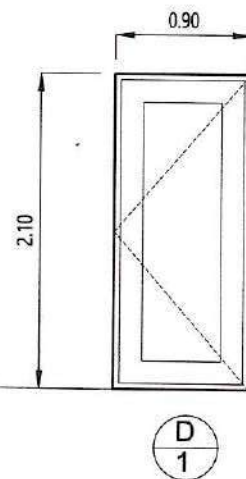
TAG	W1
TYPE	FIX + SLIDING+ AWNING
FRAME	POWDER COATED WHITE
GLASS	6mm THICK CLEAR
LOCATION	ACTIVITY AREA
SET REQ'D	2

TAG	W2
TYPE	AWNING + SLIDING
FRAME	POWDER COATED WHITE
GLASS	6mm THICK CLEAR
LOCATION	ACTIVITY AREA
SET REQ'D	2

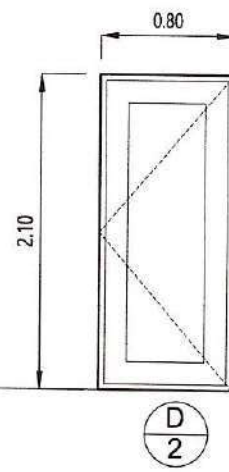
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LOCATION	PANTRY
SET REQ'D	1

TAG	W4
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FRAME	POWDER COATED WHITE
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LOCATION	QUARTERS
SET REQ'D	2

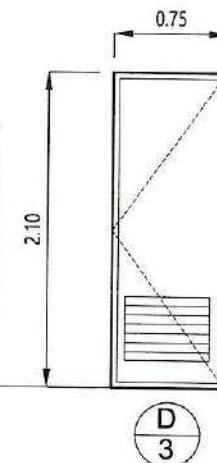
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TYPE	AWNING
FRAME	POWDER COATED WHITE
GLASS	6mm THICK CLEAR
LOCATION	COMFORT RMS.
SET REQ'D	1



TAG	D1
TYPE	STEEL DOOR
JAMB	STEEL
GLASS	
LOCATION	ENTRY
SET REQ'D	1



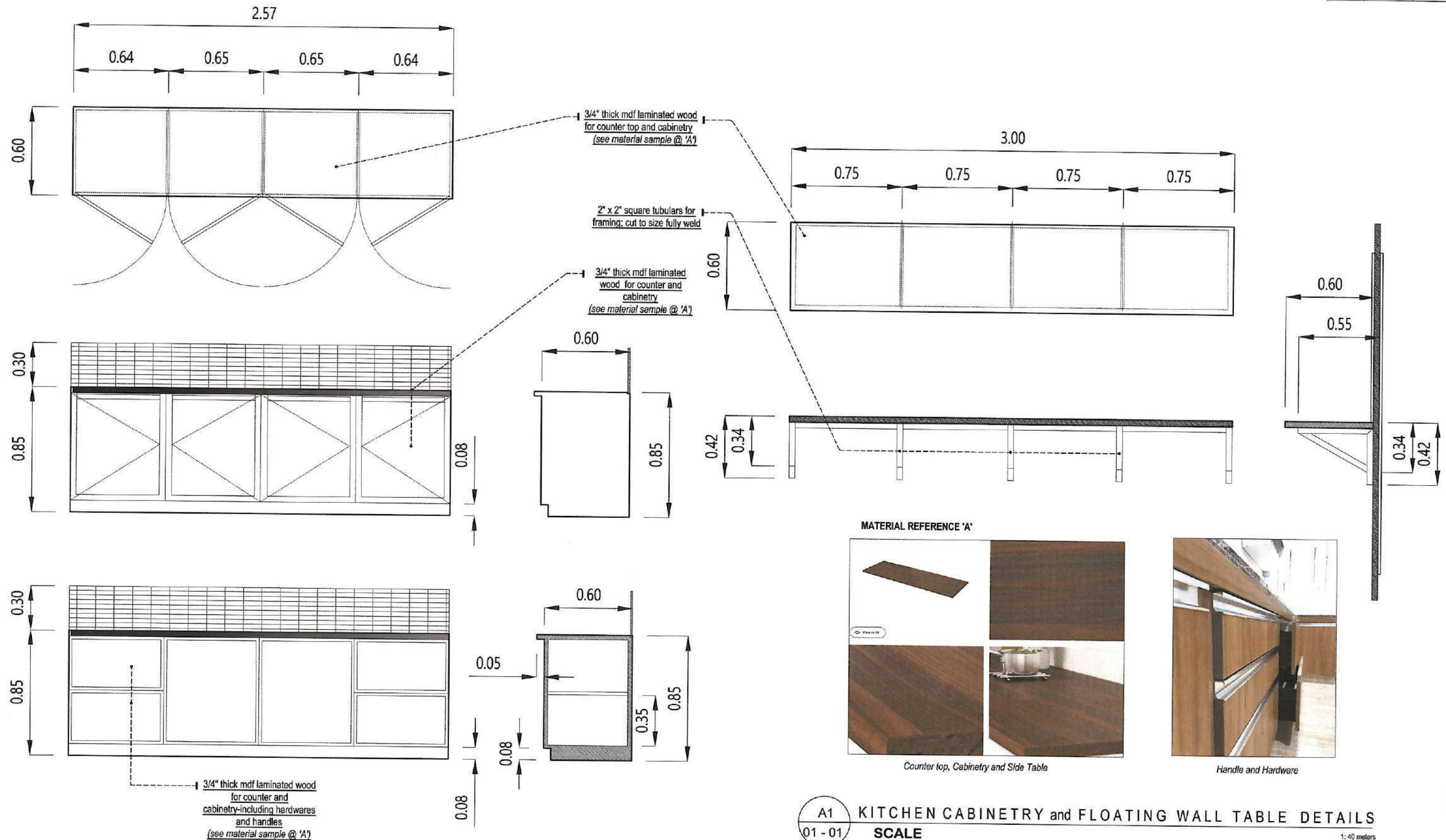
TAG	D2
TYPE	HDF, LAMINATED
FRAME	2" x 3" WOOD JAMB
GLASS	
LOCATION	QUARTERS
SET REQ'D	2



TAG	D3
TYPE	HDF, LAMINATED
FRAME	2" x 3" WOOD JAMB
GLASS	
LOCATION	COMFORT RMS.
SET REQ'D	2

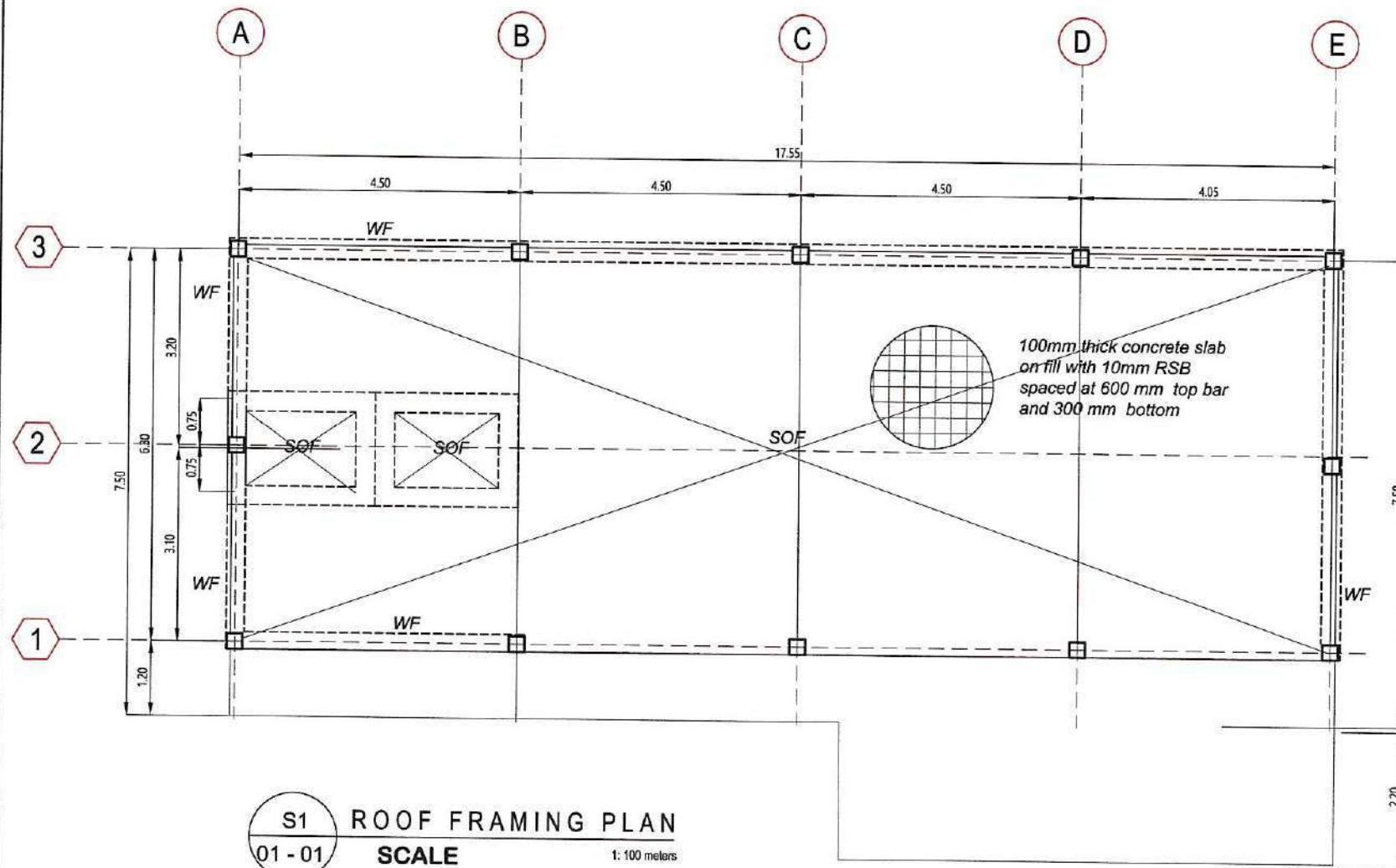
A1 DOORS and WINDOWS SCHEDULE
01 - 01 SCALE 1: 50 meters

 ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT	 ENGINEER	 OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME: DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	RECOMMENDING APPROVAL: ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	APPROVED: FELIPE SALAING COMILA PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A11 12 22

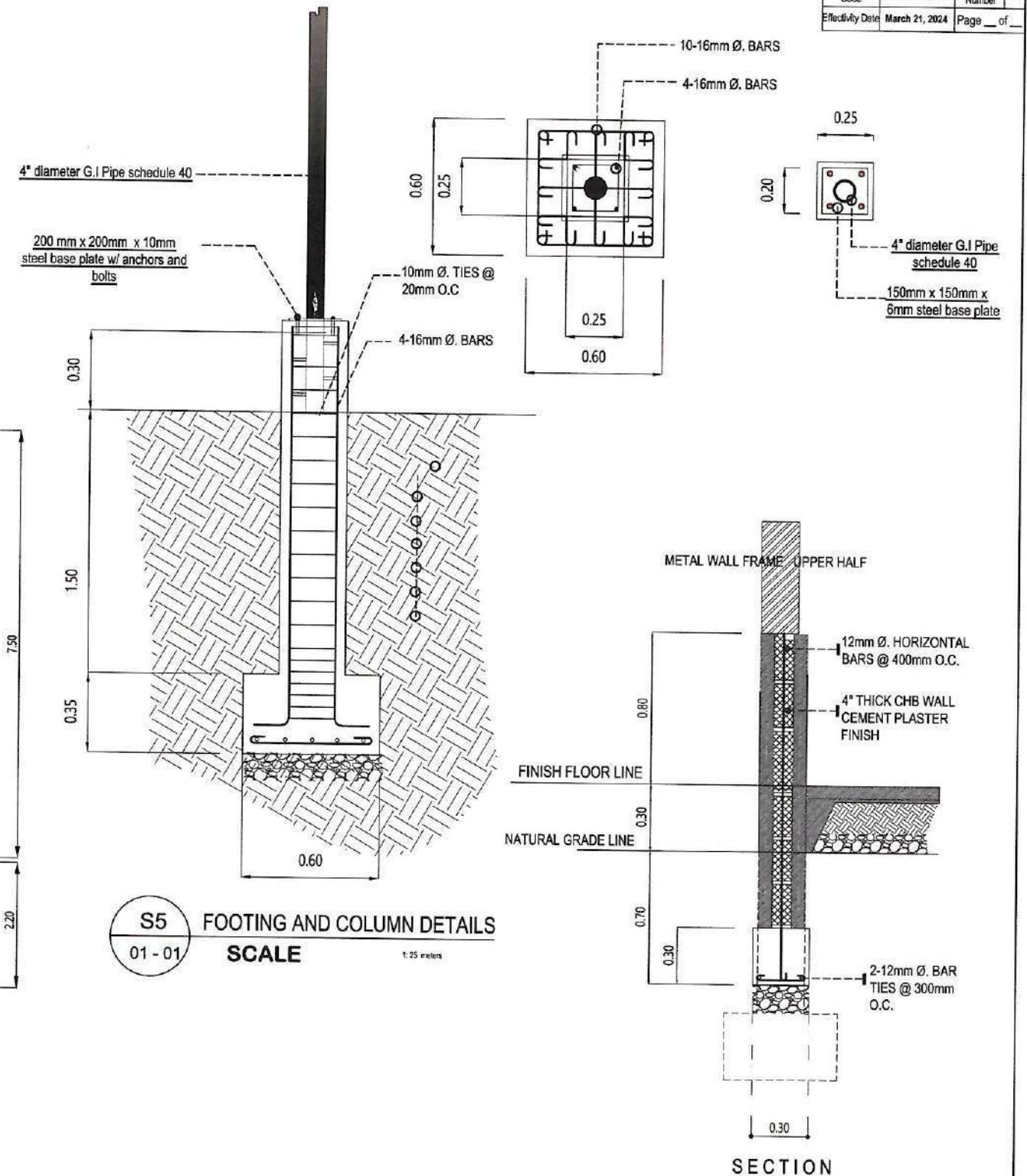


A1 KITCHEN CABINERY and FLOATING WALL TABLE DETAILS
01 - 01 SCALE
1:40 meters

 ARCH. HAZEL N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT	 ENGINEER	 OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT: AS SHOWN	SHEET A12 12 22
			 DR. RICHARD P. DUMAPIS END USER, BSU VETERINARY TEACHING HOSPITAL	 ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	 FELIPE SALAING COMILA PRESIDENT		



S1 ROOF FRAMING PLAN
01 - 01 SCALE 1: 100 meters



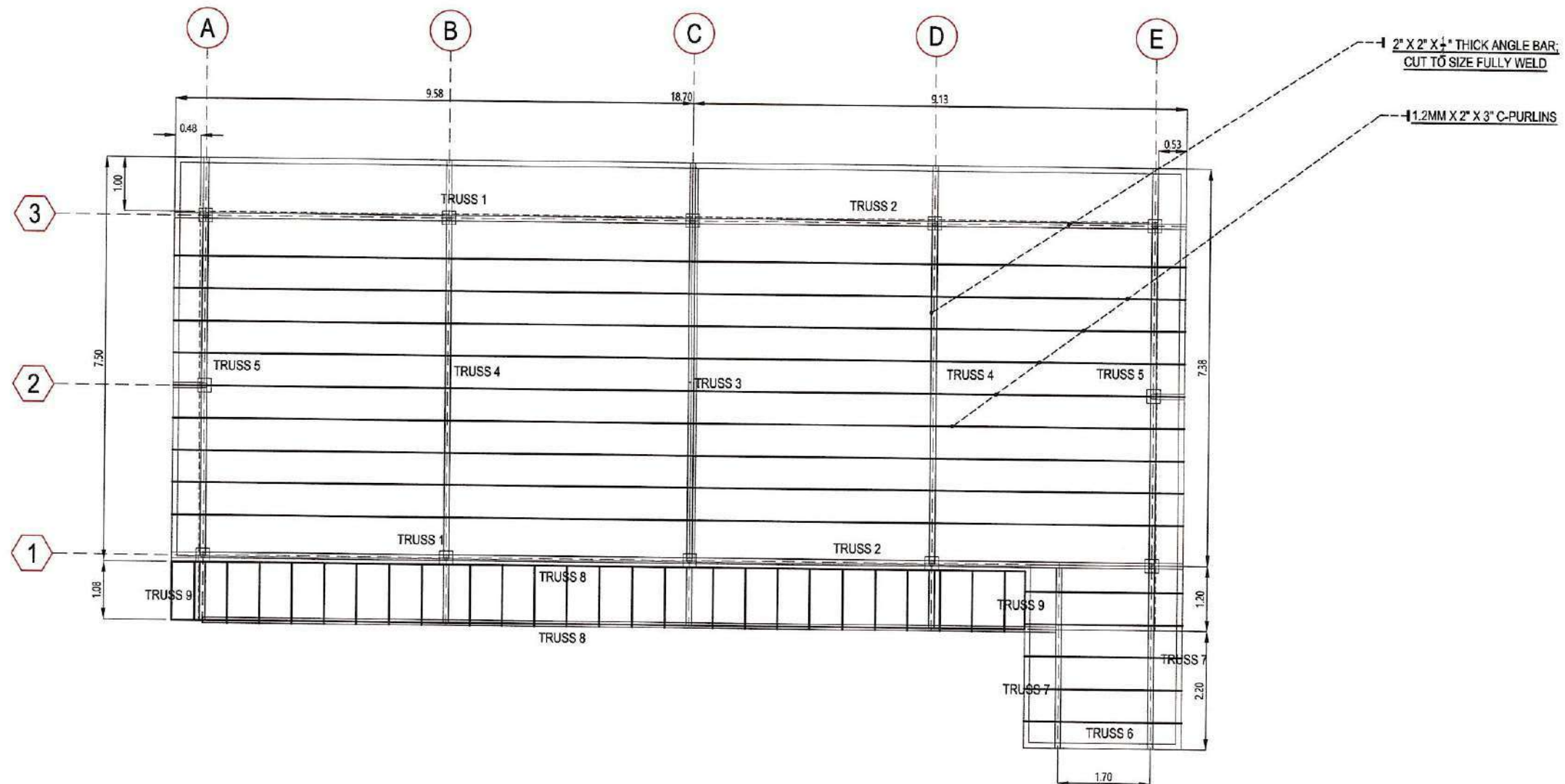
S5 FOOTING AND COLUMN DETAILS
01 - 01 SCALE 1: 25 meters

S1 WALL FOOTING DETAILS
02 - 03 SCALE 1: 40 meters





SCHEDULE OF SLAB																REMARKS	
SLAB MARK	THICKNESS, mm	REBAR SPACING ALONG SHORT DIRECTION, in mm								REBAR SPACING ALONG LONG DIRECTION, in mm							
		Rebar Size	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT			
			TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		
SOF	100	10mm Ø	600	300	600	300	600	300	10mm Ø	600	300	600	300	600	300	SLAB-ON-FILL	

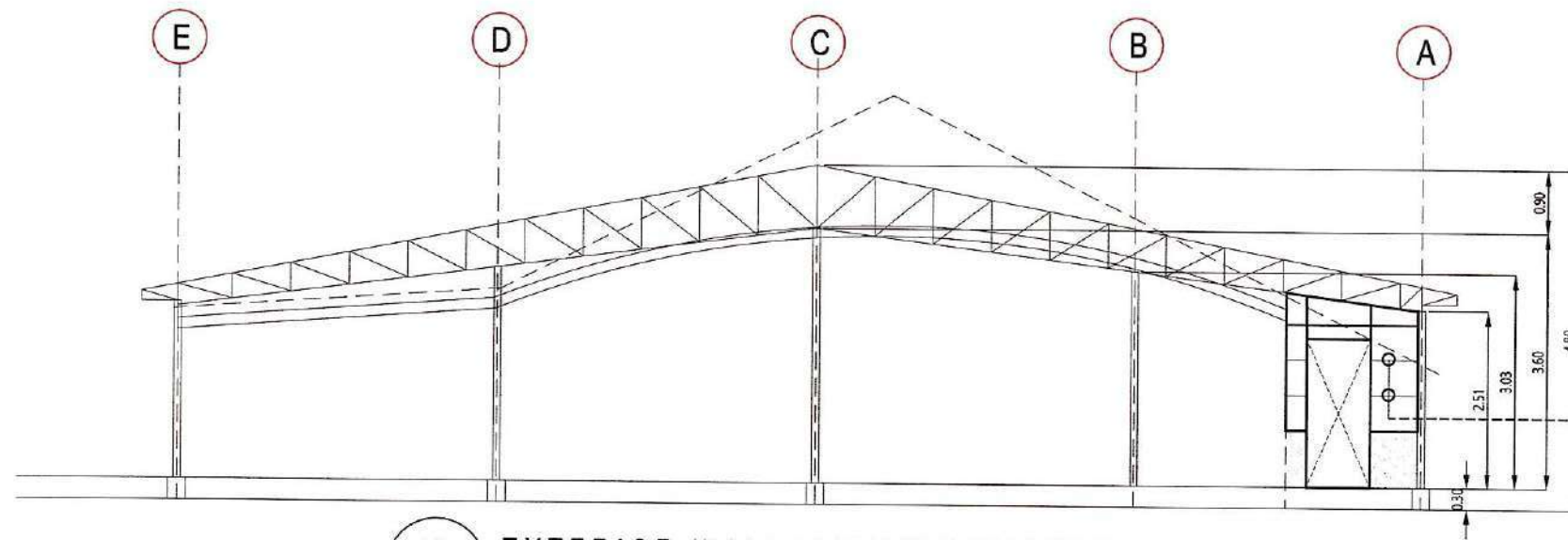
S1 SLAB SCHEDULE
02 - 03 SCALE not to scale

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT	ENGINEER	DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024	OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME: DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	RECOMMENDING APPROVAL: ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	APPROVED: FELIPE SALAING COMILA PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET S1 22
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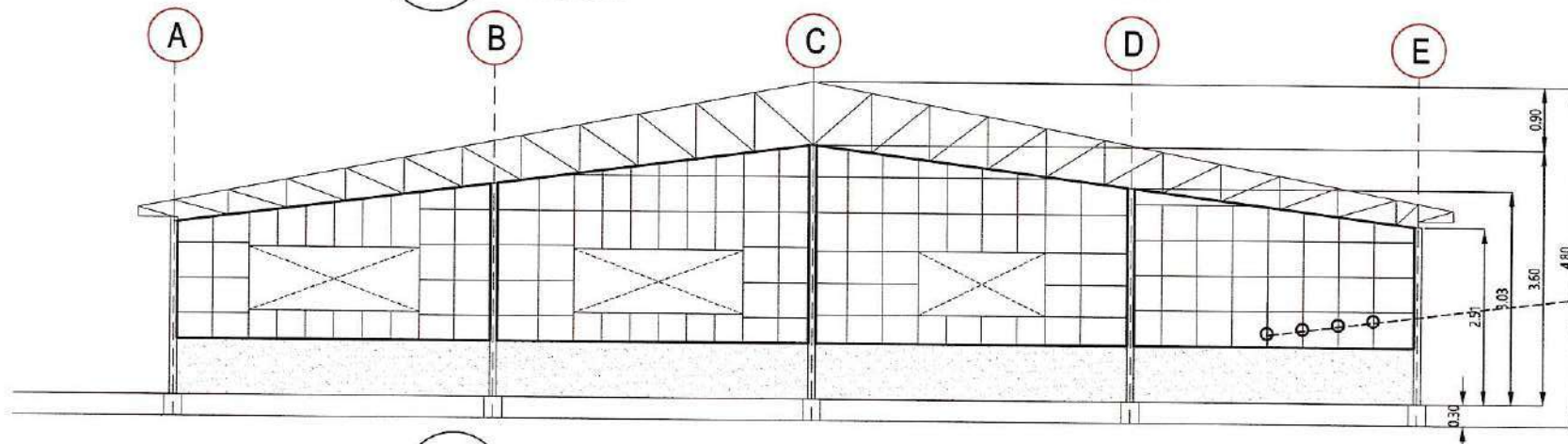


S1 ROOF FRAMING PLAN
01 - 01 SCALE 1: 100 meters

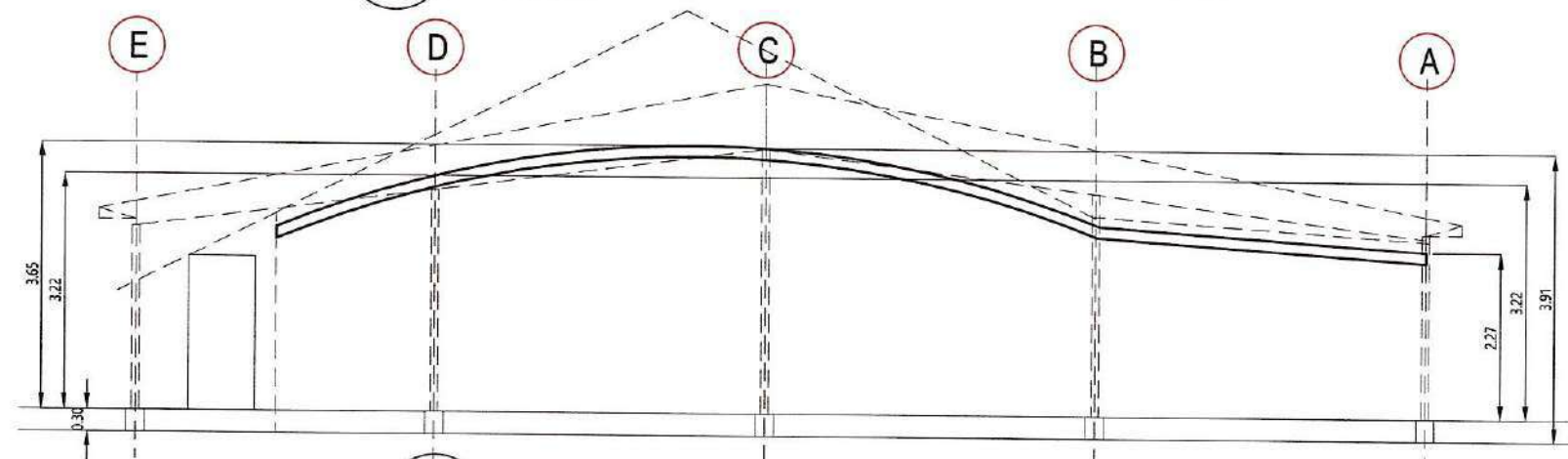
ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD -	ENGINEER	DRAFTED BY: MAYNIA A. DEVERA MARCH 21, 2024	OWNER/ PROJECT TITLE/ LOCATION  " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL " KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT: AS SHOWN	SHEET S2 4 22
				 DR. RICHARD P. DUMAPIS END USER, BSU VETERINARY TEACHING HOSPITAL	 ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	 FELIPE SALAING COMILA PRESIDENT		



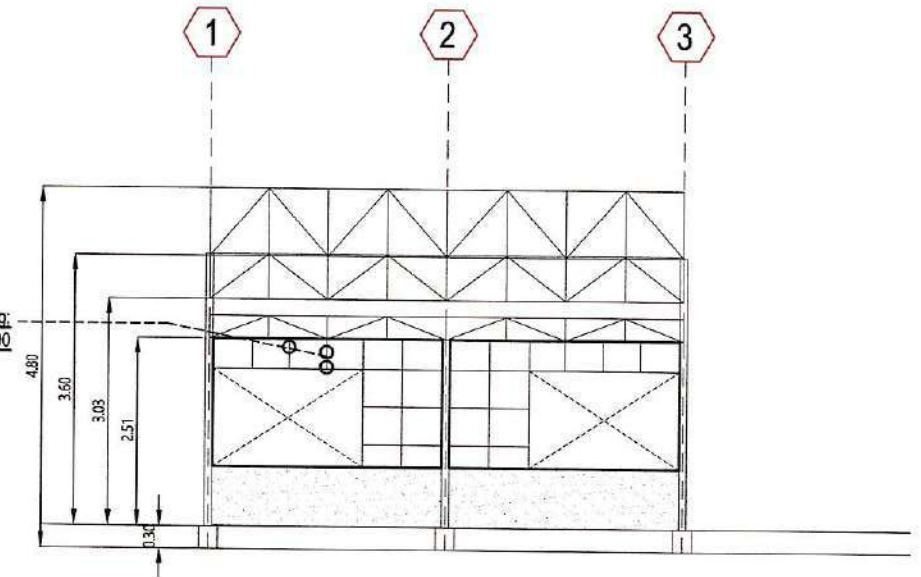
S1
01 - 01
EXTERIOR WALL FRAMING FRONT ELEVATION
SCALE
1: 100 meters



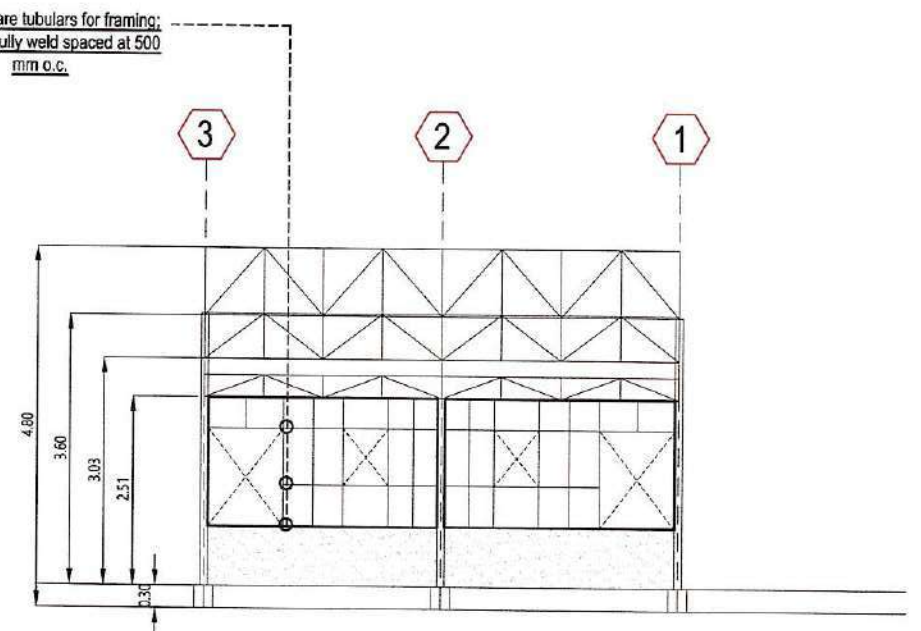
S1
01 - 01
EXTERIOR WALL FRAMING REAR ELEVATION
SCALE
1: 100 meters







S1
01 - 01
EXTERIOR WALL FRAMING ELEVATION
SCALE
1: 100 meters

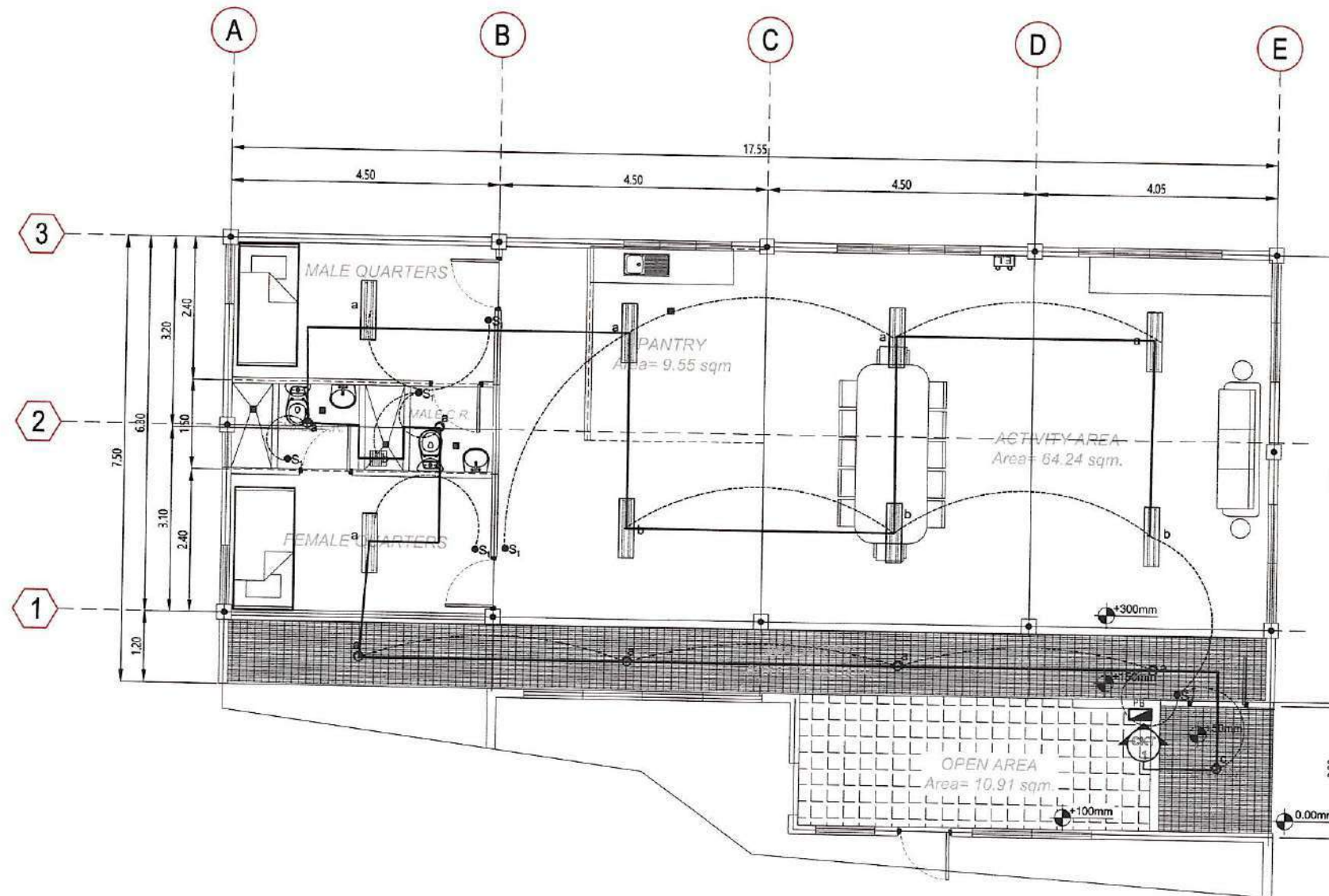


S1
01 - 01
EXTERIOR WALL FRAMING RIGHT SIDE ELEVATION
SCALE
1: 100 meters







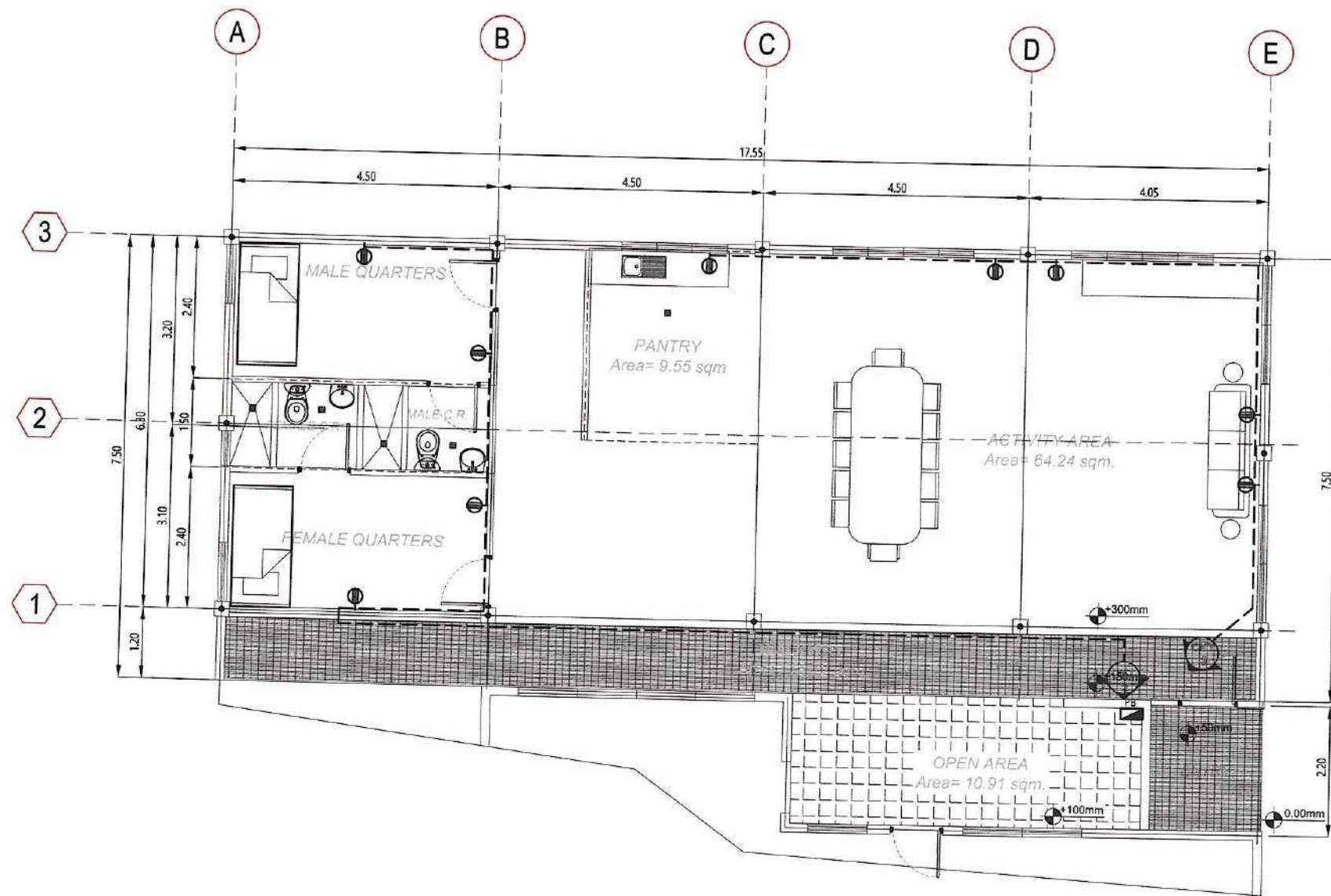
S1
01 - 01
EXTERIOR WALL FRAMING LEFT SIDE ELEVATION
SCALE
1: 100 meters

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. _____ - LA TRINIDAD - _____ ARCHITECT	ENGINEER	DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024	OWNER/ PROJECT TITLE/ LOCATION  " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:  DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	RECOMMENDING APPROVAL:  ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	APPROVED:  FELIPE SALAING COMILA PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET S3 4 22



E1 LIGHTING LAYOUT
01 - 01 SCALE 1:100 meters

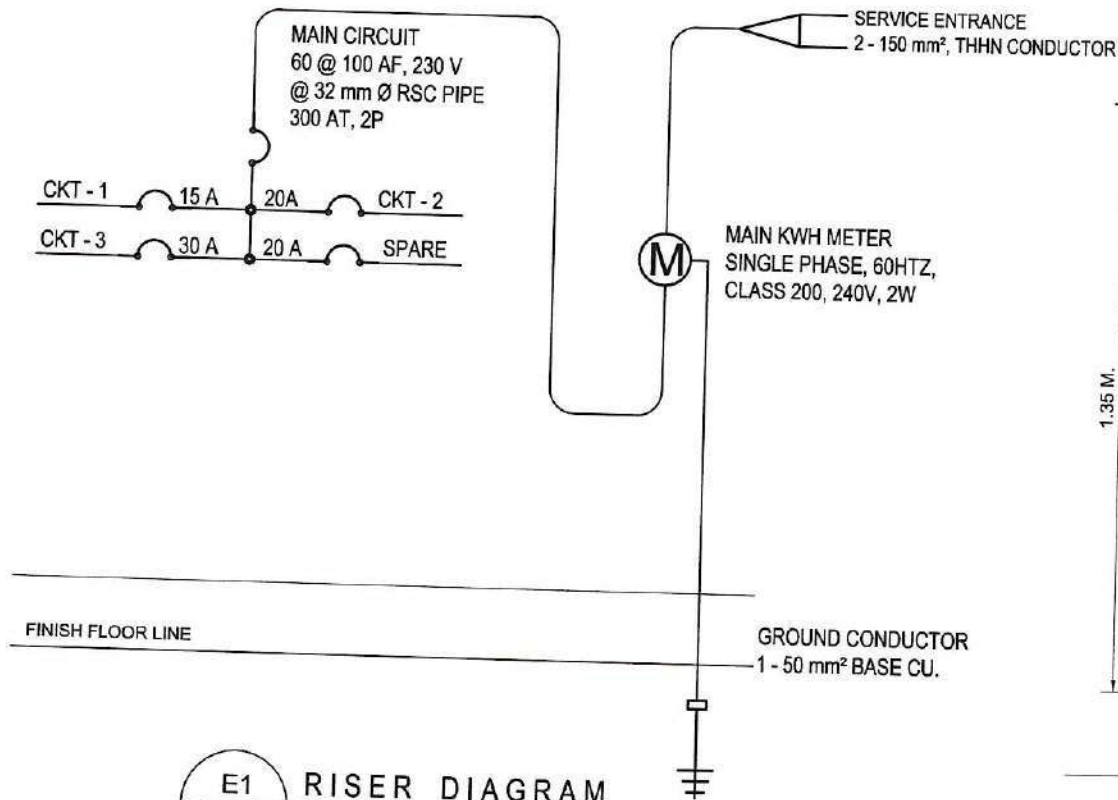
ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT	ENGINEER	DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024	OWNER/ PROJECT TITLE/ LOCATION  " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT: AS SHOWN	SHEET E1 4 22
				 DR. RICHARD P. DUMAPIS END USER, BSU VETERINARY TEACHING HOSPITAL	 ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	 FELIPE SALAING COMILA PRESIDENT		



E1 POWER LAYOUT
01 - 01 SCALE 1: 100 meters

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV. 18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT		DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024	OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT: AS SHOWN	SHEET E2 3 22
				DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	FELIPE SALAING COMILA PRESIDENT		

PB



E1 RISER DIAGRAM
01 - 04 SCALE not to scale

E1 MOUNTING HEIGHTS
02 - 04 SCALE not to scale

COMPUTED LOAD :
PB FIRST FLOOR = 3,800 W

$$\frac{3,800 \text{ W}}{230 \text{ VOLTS}} = 16.52 \text{ AMPERES}$$

16.52 AMP @ 80% DEMAND FACTOR = 13.21 AMP
USE 2- NO. 150 mm² THHN AWG IN 50
RIGID STEEL CONDUIT FOR MAIN
USE 60 A 2P FOR MAIN CIRCUIT BREAKER

E1 LOAD CALCULATIONS
03 - 04 SCALE not to scale

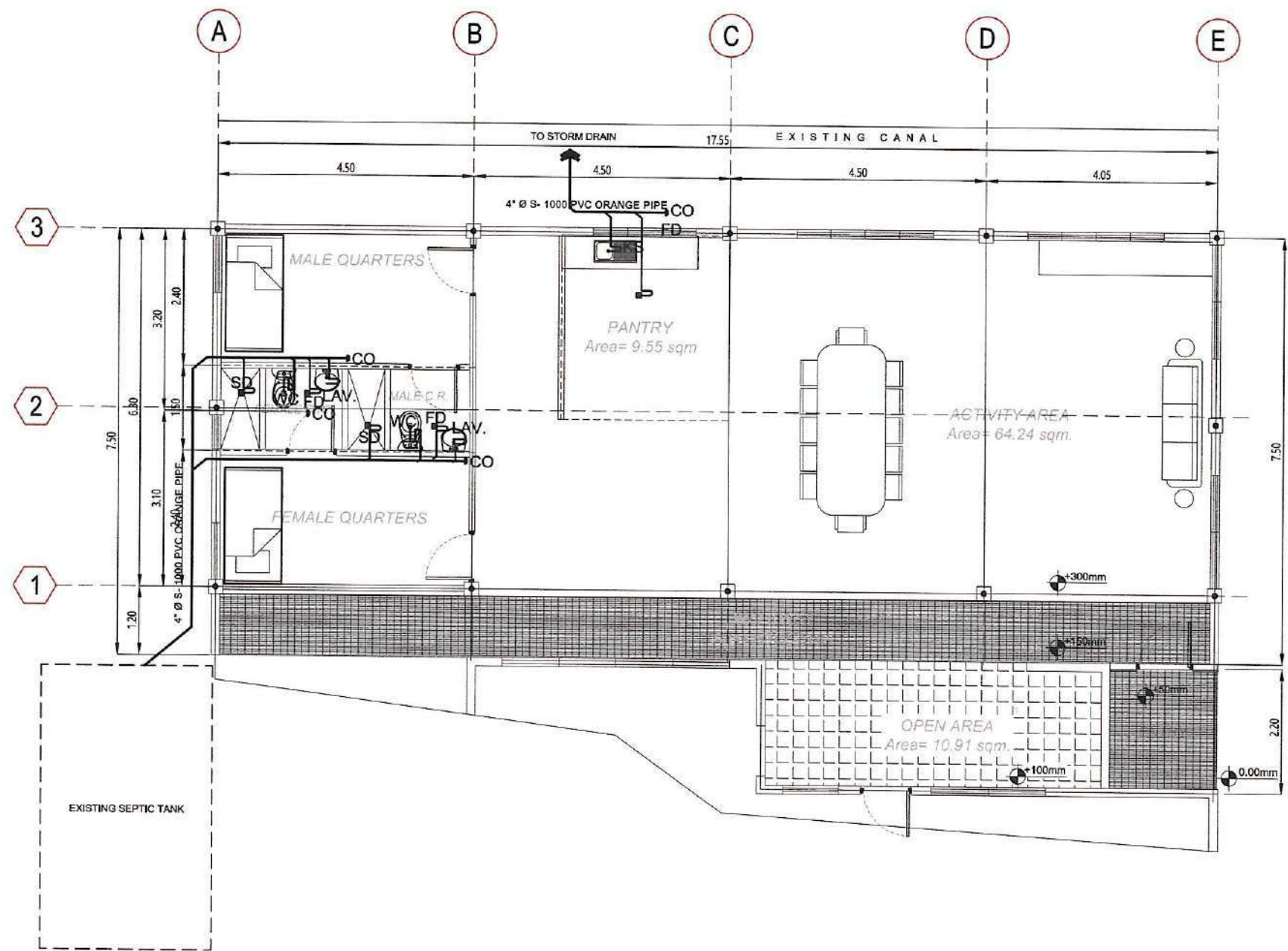
D1	DUPLEX	350
D2	DUPLEX	350
D3	DUPLEX	350
D4	DUPLEX	350
D5	DUPLEX	350
D6	DUPLEX	350
D7	DUPLEX	350
WP	WEATHER PROOF	350
WH	WATER HEATER	1250
R	RANGE	1100
REF	REFRIGERATOR	300

LOAD SCHEDULES									
CIRCUIT NO.	LIGHTING OUTLET	CONVENIENCE OUTLET	WATTS / OUTLET	WATTS / CIRCUIT	VOLTS	V.A.	FUSE RATING	WIRE SIZE	CONDUIT SIZE
CKT.-1	15		100	1500	230	6.52	15 A 2P	2 - 2.0 mm THHN	20 mm FLEXIBLE CONDUIT
CKT.-2		4	200	800	230	4.34	20 A 2P	2 - 3.5 mm THHN	20 mm FLEXIBLE CONDUIT
CKT.-3		5	200	1000	230	2.17	30 A 2P	2 - 3.5 mm THHN	20 mm FLEXIBLE CONDUIT
SPARE			500	500	230	3.47	20 A 2P	2 - 3.5 mm THHN	20 mm FLEXIBLE CONDUIT
TOTAL				3800	230	16.49	20 A 2P	2 - 3.5 mm THHN	20 mm FLEXIBLE CONDUIT

E1 ELECTRICAL DETAILS
04 - 04 SCALE not to scale

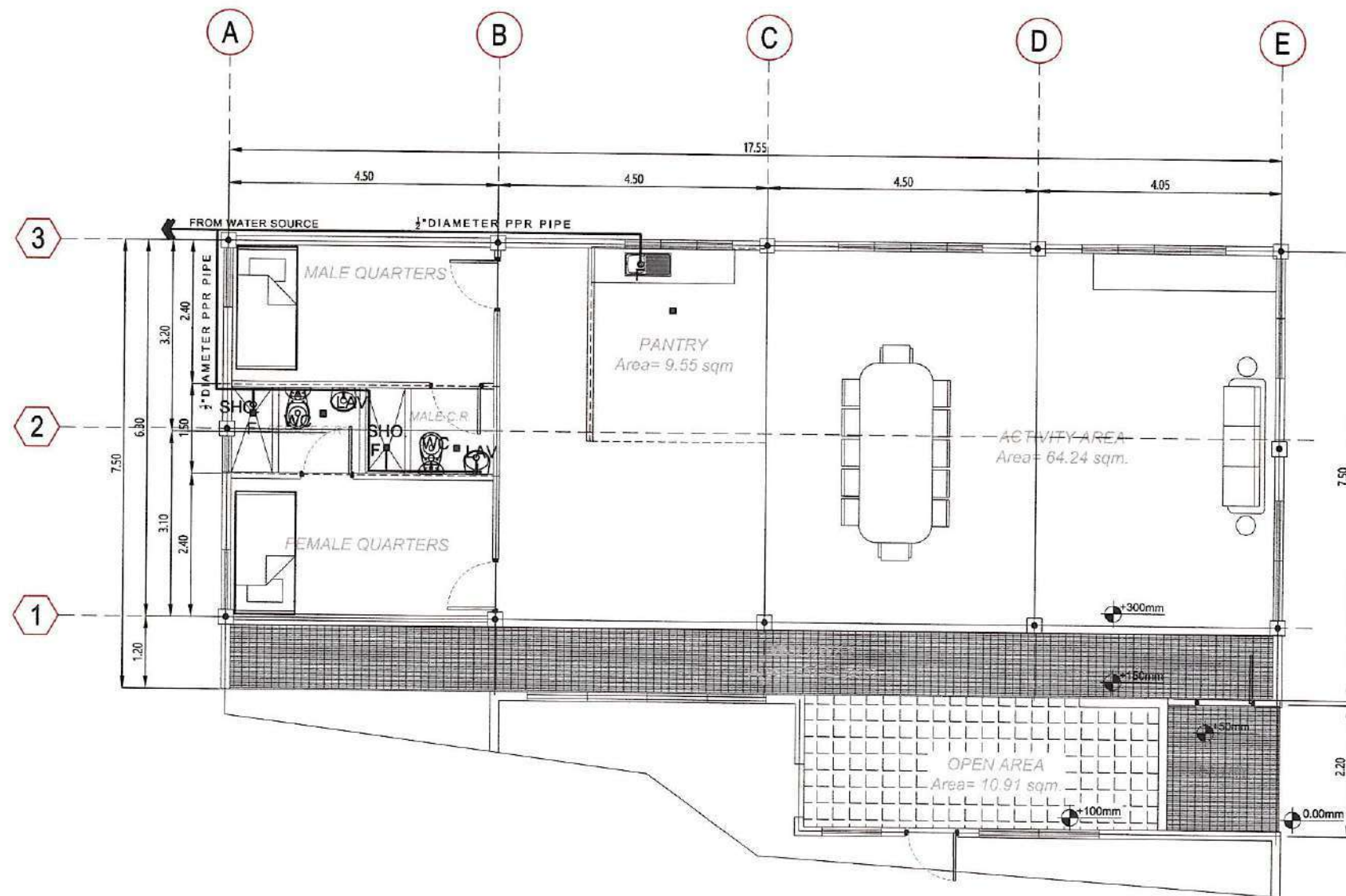
ELECTRICAL SYMBOLS	
	2-T-8 LED LAMP WITH HOUSING and DIFFUSER
	WEATHER PROOF OUTLET WITH COVER CONVENTIONAL
	CONVENIENCE OUTLET CONVENTIONAL
	PANEL BOX
	SWITCH
	2-GANG SWITCH
	3-GANG SWITCH
	TWO WAY SWITCH
	METER
	CONDUIT RUN

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT	ENGINEER	DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024	OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME: DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	RECOMMENDING APPROVAL: ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	APPROVED: FELIPE SALAING COMILA PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET E3.3 22
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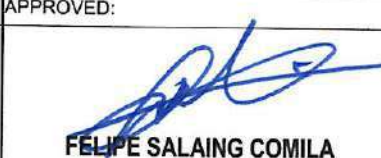


P1 SEWER LINE LAYOUT
01 - 01 SCALE 1: 100 meters

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD - ARCHITECT	ENGINEER	DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024	OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT: AS SHOWN	SHEET P1.3 22
				DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	FELIPE SALAING COMILA PRESIDENT		

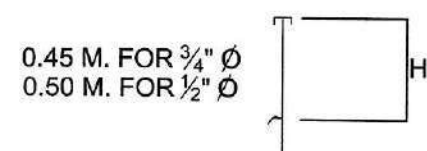


P1 WATER LINE LAYOUT
01 - 01 SCALE 1: 100 meters

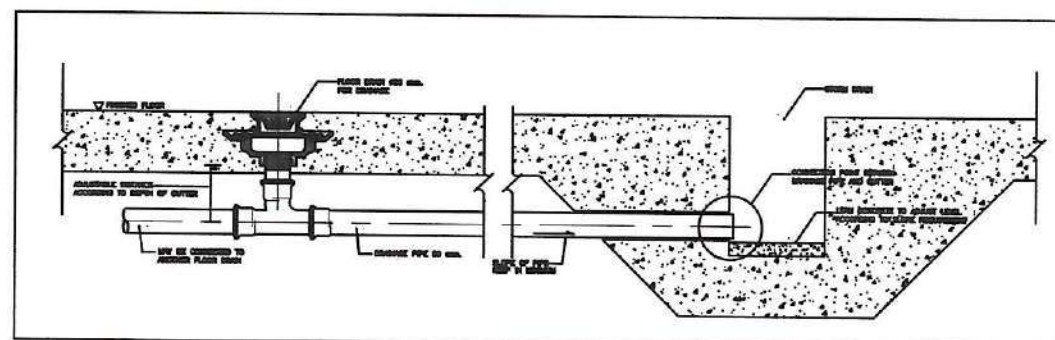
ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO. - LA TRINIDAD -	ENGINEER	DRAFTED BY: MAYLYN A. DE VERA MARCH 21, 2024		OWNER/ PROJECT TITLE/ LOCATION " PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL" KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET	CONFORME:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT: AS SHOWN	SHEET P2 3 22
					 DR. RICHARD P. DUMAPIS END-USER, BSU VETERINARY TEACHING HOSPITAL	 ALLAN CASALDO SACPA SECTOR VICE PRESIDENT	 FELIPE SALAING COMILA PRESIDENT		

PLUMBING GENERAL NOTES

- ALL WORKS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE LOCAL CODE REQUIREMENTS AND SUBDIVISION REGULATIONS.
- THE PLUMBING LAYOUT IS ONLY DIAGRAMATIC, PIPES, CLEANOUTS, AND CHECK VALVES SHALL BE CONCEALED AS MUCH AS POSSIBLE
- MINIMUM SLOPE FOR SEWER SHALL BE 2 PERCENT AND DRAIN LINES AT ONE PERCENT
- ALL FLOOR DRAINS SHALL BE VENTED INDIVIDUALLY
- ALL PVC PIPES SHALL BE OF APPROVED QUALITY AND G.I. PIPES FOR WATER DISTRIBUTION LINES SHALL BE SCHEDULE 40 OF U.S. STANDARD WEIGHT
- PROVIDE VENT PIPES AND VENT STACK THRU ROOF OF PVC APPROVED QUALITY AS REQUIRED.
- ALL INDIVIDUAL BRANCHES TO FIXTURES OR GROUP OF FIXTURES AND OR EQUIPMENT SHALL BE PROVIDED WITH AIR CHAMBER OF CAPPED VERTICAL PIPE EXTENSIONS OF DIMENSIONS AS SHOWN:



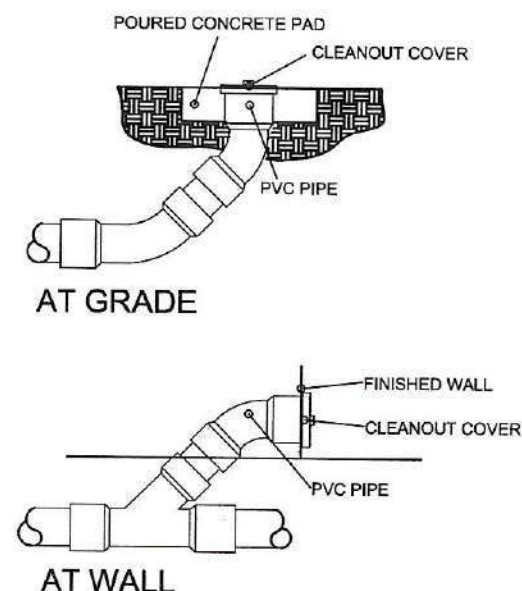
- ALL PLUMBING SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED SANITARY ENGINEER OR A MASTER PLUMBER



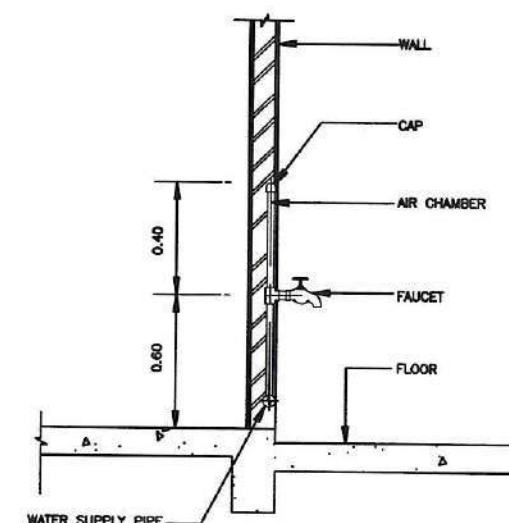
P1 TYPICAL FLOOR DRAIN TO STORM DRAIN DETAILS
01 - 04 SCALE not to scale

PLUMBING ABBREVIATIONS

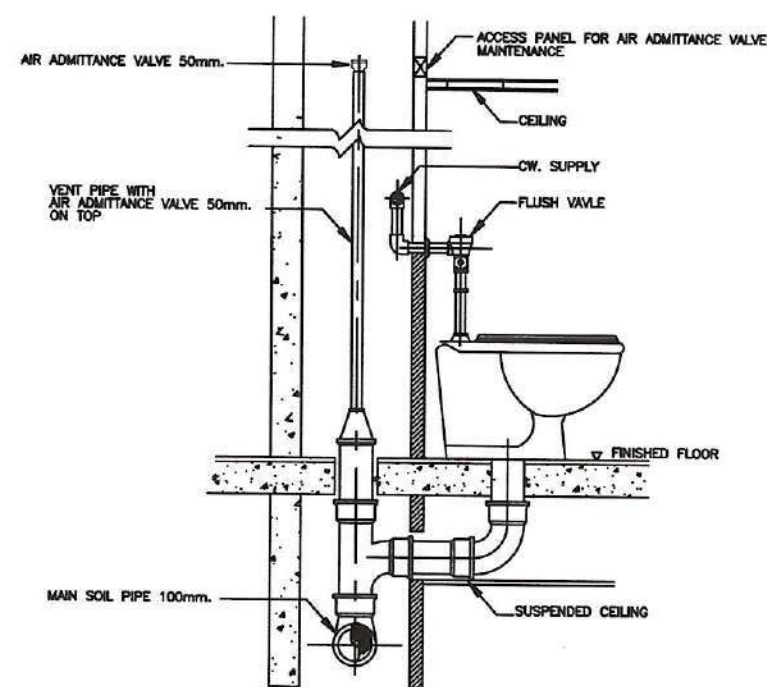
WC - WATER CLOSET	PVC - POLYVINYL CHLORIDE
LAV - LAVATORY	G.I. - GALVANIZED IRON
FD - FLOOR DRAIN	KS - KITCHEN SINK
UR - URINAL	CP - CONCRETE PIPE
CO - CLEANOUT	CCB - CONCRETE CATCH BASIN
VTR - VENT THRU ROOF	DS - DOWNSPOUT
VS - VENT SYSTEM	
SS - SOIL STACK	



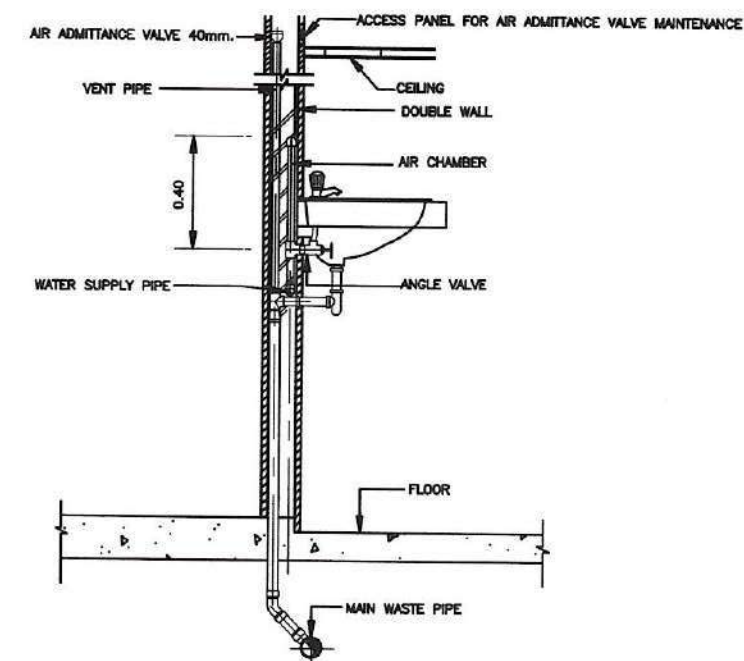
A1 CLEAN OUT DETAILS
02 - 04 SCALE not to scale



P1 TYPICAL FAUCET DETAILS
02 - 04 SCALE not to scale



P1 TYPICAL WATER CLOSET DETAILS
03 - 04 SCALE not to scale



P1 TYPICAL LAVATORY DETAILS
04 - 04 SCALE not to scale

ARCH. HAZELINE N. TIBANGAY,

UAP
PRC REG. NO. 028540 - NOV.18, 2024
PTR NO. - LA TRINIDAD -

ARCHITECT

ENGINEER

DRAFTED BY:
MAYLYN A. DE VERA
MARCH 21, 2024



OWNER/ PROJECT TITLE/ LOCATION
" PROPOSED EXTENSION AT THE SOUTHERN AREA (REAR) OF THE VETERINARY TEACHING HOSPITAL"
KM.5, BSU COMPOUND, LA TRINIDAD, BENGUET

CONFORME:

DR. RICHARD P. BUMAPIS

END-USER, BSU VETERINARY TEACHING HOSPITAL

RECOMMENDING APPROVAL:

ALLAN CASALDO SACPA

SECTOR VICE PRESIDENT

APPROVED:

FELIPE SALANG COMILA

PRESIDENT

SHEET CONTENT:

AS SHOWN

SHEET

P3 3
22



ISO 9001:2015 CERTIFIED

Republic of the Philippines
BENGUET STATE UNIVERSITY

La Trinidad, Benguet, Philippines 2601

Telephone No. (074) 422-2402

Web Address: www.bsu.edu.ph**BILL OF QUANTITIES**

PROJECT TITLE:	Proposed Extension at the southern part of the Veterinary Teaching Hospital			
PROJECT LOCATION :	Bsu Compound, Balili,km.5, La Trinidad, Benguet			
TOTAL PROJECT COST :	Php. 2,000,000.00			
PROJECT DURATION:	140 C.D.	INCLUSIVE OF:	9 UNWORKABLE DAYS	
IMPLEMENTATION MODE:	BY CONTRACT			

PROJECT DESCRIPTION	EQUIPMENT NEEDED		TECHNICAL PERSONEL	
	NO.	DESCRIPTION	NO.	DESCRIPTION
The project is propose 138.38 square meters extension at the back of the existing veterinary teaching hospital.	1	One- Bagger Mixer	1	Site Engineer/ Site Architect
	1	Bar Bender	1	Part time Safety Officer
	1	Bar Cutter	1	Construction Foreman
	2	Welding Machine	1	Electrical Engineer/ Registered Master Electrician
	1	Plate Compactor (5 Hp)	1	Registered Master Plumber

ITEM NO.	DESCRIPTION	% WEIGHT	QUANTITY	UNIT	UNIT COST	TOTAL COST
I.	GENERAL REQUIREMENTS and SITE WORKS					
a.	Mobilization and Demobilization					
b.	Permits and Clearances					
c.	Project Billboard and Signboard					
d.	Occupational Safety and Health Program					
e.	Clearing, Grubbing and Cleaning					
f.	Temporary Facilities and Utilities					
g.	Structural Excavation-Common Soil					
h.	Embankment from Structure Excavation					
i.	Gravelling Bedding for base of Slab on fill					
II.	PLAIN and REINFORCED CONCRETE WORKS					
a.	Structural Concrete for footings and Slab on fill (Class A 3500 psi at 28 days)					
b.	Reinforcing Steel of Reinforced Concrete					
c.	Formworks and Falseworks					
III.	MASONRY WORKS					
a.	CHB (non-load bearing/load bearing) including reinforcing steel					
b.	Cement Plaster Finish					
III.	STRUCTURAL STEEL WORKS (Welding Works)					
a.	Roof Trusses, Web members and Lally Columns)					
b.	Exterior Wall Framing					
c.	Painting (trusses, members and exterior wall framing)					
IV.	ROOFING WORKS					
a.	Roofing Sheets and Accessories					
b.	Wall enclosure					
V.	ELECTRICAL WORKS					

a.	Conduits and Boxes					
b.	Wires and Wiring Devices					
c.	Electrical Fixtures					
d.	Panel Board/ Boxes/ Breakers					
VI.	PLUMBING WORKS					
a.	Pipe Lines					
b.	Plumbing Fixtures					
VII.	ARCHITECTURAL FINISHINGS					
a.	Ceiling Works					
b.	Dry wall partition					
c.	Tileworks (Unglazed Floor Tiles)					
d.	Tileworks (glazed wall tiles)					
e.	Kitchen counter and Cabinetry including floating shelf					
f.	Aluminum Windows					
g.	Doors					
h.	Painting (Ceiling and Interior walls, exterior walls masonry)					
VIII	FIRE SAFETY					
TOTAL ESTIMATED PROJECT COST		0.00%				0.00
BREAKDOWN OF ESTIMATED PROJECT COST						TOTAL COST
A.	DIRECT COST					
	EQUIPMENT					
	LABOR					
	MATERIALS					
B.	INDIRECT COST					
	OCM					
	CONTRACTOR'S PROFIT					
	TAXES					
C.	PROJECT COST(TOTAL A+B)					
TOTAL PROJECT COST (TPC)						0.00
Total Bid Cost (in Figures)						
Total Bid Cost in (Words)						
I HEREBY SUBMIT THE FOREGOING; AND THAT I UNDERSTAND THE TERMS AND CONDITIONS AND THE CONTENT.						
NAME OF BIDDER:						
NAME OF FIRM:						
DATE:						



Republic of the Philippines
BENGUET STATE UNIVERSITY
La Trinidad, Province of Benguet, 2601
(074) 422-2401 Telefax (074) 422-2176

Project	PROPOSE EXTENSION AT THE SOUTHERN PART (REAR) OF THE VETERINARY TEACHING HOSPITAL
Owner	BENGUET STATE UNIVERSITY
Location	BSU Compound, Km. 5, Balili, La Trinidad, Benguet

ITEM No.	Detailed Unit Price Analysis						
I. GENERAL REQUIREMENTS and SITE WORKS							
a.	Mobilization and Demobilization		1 lot				
1	material & description	quantity		unit cost		amount	
2	labor	no.	daily rate			amount	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate				days to complete	
	Truck	1	unit		/day	-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4				
6	Contractor's Profit		of item 4				
7	Tax		5% of item 4 + 5 + 6		-		
8	Total Unit Cost (4 + 5 + 6 +7)		Php		-		cost per item
b.	Permits and Clearances		1 l.s.				
1	material & description	quantity		unit cost		amount	-
	Permits and Clearances	1	ls		/l.s.	-	
2	labor	no.	daily rate			amount	-
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate				days to complete	
	minor tools (10% of Labor Cost)					-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-		
6	Contractor's Profit		of item 4		-		
7	Tax		5% of item 4 + 5 + 6		-		
8	Total Unit Cost (4 + 5 + 6 +7)		Php		-		cost per item
c.	Poject Billboard and Signboard		1 lot				
1	material & description	quantity		unit cost		amount	-
	Printed Tarpulin (8ft x 8ft)	5.94	sq.m.		/sq.m.	-	
	Good lumber	39.5	bd.ft.		/bd.ft	-	
	Assorted CWN	1	kg		/kg	-	
2	labor	no.	daily rate			amount	-
	Skilled laborer	1	/day			-	
	Unskilled laborer	1	/day			-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate				days to complete	
	minor tools (10% of Labor Cost)					-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-		
6	Contractor's Profit		of item 4		-		
7	Tax		5% of item 4 + 5 + 6		-		
8	Total Unit Cost (4 + 5 + 6 +7)		Php		-		cost per item



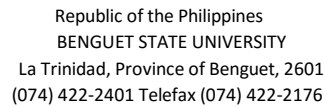
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BENGUET STATE UNIVERSITY
La Trinidad, Province of Benguet, 2601
(074) 422-2401 Telefax (074) 422-2176

d.	Occupational Safety and Health Program	1	lot				
1	material & description	quantity		unit cost		amount	-
	assorted warning and safety signages	1	lot		/lot	-	
	canvass (for jobsite perimeter enclosure/fencing)	1	roll		/roll	-	
	vest	9	pcs.		/pc.	-	
	safety shoe/ boots	9	pcs.		/pc.	-	
	safety gloves	9	pcs.		/pc.	-	
	skull guard/ hard hat	9	pcs.		/pc.	-	
	safety harness	9	pcs.		/pc.	-	
	first aid kit	1	unit		/unit	-	
	fire extinguisher, 5lbs. (refill)	1	unit		/unit	-	
2	labor	no.		daily rate		amount	-
	Safety Officer (Part-time)			/day		0	
3	equipment (rental based on ACEL rates)	unit		daily rental	no of days	amount	-
		output rate				days to complete	
		production rate				days to complete	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4			
6	Contractor's Profit			of item 4		-	
7	Tax			5%	of item 4 + 5 + 6	-	
8	Total Unit Cost (4 + 5 + 6 + 7)			Php		-	cost per item
e.	Clearing, Grubbing and Cleaning	138.38	sq.m.				
1	material & description	quantity		unit cost		amount	
2	labor	no.		daily rate		amount	-
		production rate		sq.m./manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	1		/day		-	
	Unskilled laborer	3		/day		-	
3	equipment (rental based on ACEL rates)	unit		daily rental	no of days	amount	-
		output rate				days to complete	
	minor tools (10% of Labor Cost)					-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax			5%	of item 4 + 5 + 6	-	
8	Total Unit Cost (4 + 5 + 6 + 7)			Php		-	cost per item
f.	Temporary Facilities and Utilities	1	lot				
1	material & description	quantity		unit cost		amount	-
	Assorted Construction Materials	1	lot		/lot	-	
	Assorted CWN	2	kg.		/kg.		
2	labor	no.		daily rate		amount	-
		production rate		cu.m./manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	1		/day		-	
	Unskilled laborer	2		/day		-	
3	equipment (rental based on ACEL rates)	unit		daily rental	no of days	amount	-
		output rate				days to complete	
	minor tools (10% of Labor Cost)					-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax			5%	of item 4 + 5 + 6	-	
8	Total Unit Cost (4 + 5 + 6 + 7)			Php		-	cost per item



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g.	Structural Excavation-Common Soil	15.27	cu.m.				
1	material & description	quantity		unit cost		amount	
2	labor	no.		daily rate		amount	-
		production rate		cu.m./manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	2		/day		-	
	Unskilled laborer	4		/day		-	
3	equipment (rental based on ACEL rates)	unit		daily rental	no of days	amount	-
		output rate				days to complete	
	minor tools (10% of Labor Cost)					-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax			5% of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 + 7)		Php			-	cost per item
h.	Embankment from Structure Excavation	37.38	cu.m.				
1	material & description	quantity		unit cost		amount	
2	labor	no.		daily rate		amount	-
		production rate		cu.m./manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	2		/day		-	
	Unskilled laborer	4		/day		-	
3	equipment (rental based on ACEL rates)	unit		daily rental	no of days	amount	-
		output rate				days to complete	
	minor tools (10% of Labor Cost)					-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax			5% of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 + 7)		Php			-	cost per item
i.	Gravelling Bedding for base of Slab on fill	5.35	cu.m.				
1	material & description	quantity		unit cost		amount	-
	Gravel bedding (G1) with 5% shrinkage factor ; 50 mm thick on compacted soil	5.35 m³		/m³		-	
2	labor	no.		daily rate	no of days	amount	-
		production rate		cu.m./manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	1		/day		-	
	Unskilled laborer	3		/day		-	
3	equipment (rental based on ACEL rates)	unit		daily rental	no of days	amount	-
		output rate		cu.m./unithour		days to complete	
	Plate Compactor	1		/day		-	
	minor tools (10% of Labor Cost)					-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax			5% of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 + 7)		Php			-	cost per item



II.	PLAIN and REINFORCED CONCRETE WORKS						
a.	Structural Concrete for footings and Slab on fill (Class A 3500 psi at 28 days)		16.91	cu.m.			
1	material & description	quantity	unit cost		amount	-	
	cement	169.00	bags	/bag	-		
	sand	9.29	cu.m.	/cu.m.	-		
	gravel	17.00	cu.m.	/cu.m.	-		
	CHB (load bearing) of wall footing	227.00	pcs.	/pc.	-		
2	labor	no.	daily rate		no of days	amount	-
		production rate	cu.m./manhour		days to complete		
	Leadman	1	/day		-		
	Skilled laborer	2	/day		-		
	Unskilled laborer	4	/day		-		
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate			days to complete		
	One Bagger Mixer (4-6 cu.ft/min)		/day		-		
	minor tools (10% of Labor Cost)				-		
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 +7)			Php	-		cost per item
b.	Reinforcing Steel of Reinforced Concrete		326.02	kgs			
1	material & description	quantity	unit cost		amount	-	
	10mm diameter by 6000m reinforcing steel bar (grade 33)	121.00	kgs.	/kg.	-		
	12mm diameter by 6000m reinforcing steel bar (grade 40)	34.38	kgs.	/kg.	-		
	16mm diameter by 6000m reinforcing steel bar (grade 40)	170.64	kgs.	/kg.	-		
	No. 16 G.I. Tire Wire	5.20	kgs.	/kg.	0		
2	labor	no.	daily rate		no of days	amount	-
		production rate	kg./manhour		days to complete		
	Leadman	1	/day		-		
	Skilled laborer	2	/day		-		
	Unskilled laborer	4	/day		-		
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate			days to complete		
	minor tools (10% of Labor Cost)				-		
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 +7)			Php	-		cost per item
c.	Formworks and Falseworks		20.28	sqm.			
1	material & description	quantity	unit cost		amount	-	
	19mm x 1.2m x 2.4m Phenolic Board (3 uses)	8	pcs.	/pc.	-		
	2"x 3" Good Lumber	24	bd.ft.	/bd.ft	-		
	assorted CWN	4	kg.	/kg.	-		
2	labor	no.	daily rate		no of days	amount	-
		production rate	sq.m./manhour		days to complete		
	Skilled laborer	1	/day		-		
	Unskilled laborer	1	/day		-		
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate			days to complete		
	minor tools (10% of Labor Cost)				-		
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 +7)			Php	-		cost per item



II.	MASONRY WORKS						
a.	CHB (non-load bearing/load bearing) including reinforcing steel	34.17	sq.m.				
1	material & description	quantity		unit cost	amount		-
	100mm thk. CHB	427	pcs.	/pc.	-		
	cement	20	bags	/bag	-		
	sand	2.00	m ³	/m ³	-		
	12mm diameter x 6m reinforcing steel	58.54	kgs.	/kgs.	-		
	No. 16 G.I. Tire Wire	5.00	kgs.	/kg.	-		
2	labor	no.		no of days	amount		-
		production rate		sqm./manhour	days to complete		
	Leadman	1		/day	-		
	Skilled laborer	1		/day	-		
	Unskilled laborer	3		/day	-		
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount		-
	minor tools (10% of Labor Cost)				-		
	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-		
6	Contractor's Profit		of item 4		-		
7	Tax		5% of item 4 + 5 + 6		-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item
b.	Cement Plaster Finish	68.34	sq.m.				
1	material & description	quantity		unit cost	amount		-
	cement	23.00	bags	/bag	-		
	sand	1.50	m ³	/m ³	-		
2	labor	no.	daily rate	no of days	amount		-
		production rate	m ² /manhour	days to complete			
	Leadman	1	/day		-		
	Skilled laborer	1	/day		-		
	Unskilled laborer	3	/day		-		
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount		-
	minor tools (10% of Labor Cost)				-		
	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-		
6	Contractor's Profit		of item 4		-		
7	Tax		5% of item 4 + 5 + 6		-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item
III.	STRUCTURAL STEEL WORKS (Welding Works)						
a.	Roof Trusses, Web members and Lally Columns)	360.64	l.m.				
1	material & description	quantity		unit cost	amount		-
	2" x 2" x 1/4 " thick ANGLE BAR	65.00	pcs.	/pc.	-		
	4" diameter G.I. pipe schedule 40	12.00	pcs.	/pc.	-		
	200mm x 200mm x 10mm steel base plate	12.00	pcs.	/pc.	-		
	16mm dia. Anchor bolt with nut and washer	48.00	sets	/set	-		
	welding rod	8.00	kg.	/kg.	-		
	consumables (5% of Material Cost)	1	lot	/lot	-		
2	labor	no.	daily rate	no of days	amount		-
		production rate	lm./manhour	days to complete			
	Leadman	1	/day		-		
	Skilled laborer	2	/day		-		
	Unskilled laborer	5	/day		-		
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount		-
	scaffoldings/ H-frames, set	20	/day		-		
	Welding Machine		/day		-		
	minor tools (10% of Labor Cost)				-		
	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4		-		
6	Contractor's Profit		of item 4		-		
7	Tax		5% of item 4 + 5 + 6		-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item



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b.	Exterior Wall Framing	313.12	l.m.				
1	material & description	quantity	unit cost	amount	-		
	2" x 2" x 6000mm square tubulars	52.00 pcs.	/pc.	-			
	welding rod	5.00 kg.	/kg.	-			
2	labor	no.	daily rate	no of days	amount	-	
		production rate	lm/manhour		days to complete		
	Leadman	1	/day		-		
	Skilled laborer	2	/day		-		
	Unskilled laborer	4	/day		-		
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount	-	
		output rate			days to complete		
	Welding Machine		/day		-		
	minor tools (10% of Labor Cost)	0.1			-		
4	Total Direct Cost (1 + 2 + 3)			-			
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4	-			
6	Contractor's Profit		of item 4	-			
7	Tax		5% of item 4 + 5 + 6	-			
8	Total Unit Cost (4 + 5 + 6 + 7)		Php	-		cost per item	
c.	Painting (trusses, members and exterior wall framing)	417.04	l.m.				
1	material & description	quantity	unit cost	amount	-		
	Red oxide metal primer (2 coats only)	10.00 gal.	/gal.	-			
	consumables (5% of Material Cost)	1 lot	/lot	-			
2	labor	no.	daily rate	no of days	amount	-	
		production rate	m ² /manhour		days to complete		
	Leadman	1	0 /day		-		
	Skilled laborer	1	0 /day		-		
	Unskilled laborer	2	0 /day		-		
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount	-	
		output rate	m ² /unithour		days to complete		
	scaffoldings/ H-frames, set	20	16.00 /day		-		
	minor tools (10% of Labor Cost)		/day		-		
4	Total Direct Cost (1 + 2 + 3)			-			
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4	-			
6	Contractor's Profit		of item 4	-			
7	Tax		5% of item 4 + 5 + 6	-			
8	Total Unit Cost (4 + 5 + 6 + 7)		Php	-		cost per item	
IV.	ROOFING WORKS						
a.	Roofing Sheets and Accessories	151.36	sq.m.				
1	material & description	quantity	unit cost	amount	-		
	0.5 mm thick x 4ft width pre painted rib-type long span green metal roofing	184.54 l.m.	/l.m.	-			
	1.2mm x 2" x 3" C-Purlins	54.00 pcs.	/pc.	-			
	0.5 mm thick x 18 " x 8ft. pre-painted metal gutter	11.00 pcs.	/pc.	-			
	0.5 mm thick x 18" x 8ft pre-painted metal flashing with ridge roll	9.00 pcs.	/pc.	-			
	5mm x 50 meters insulation foam single	1 roll	/roll	-			
	1/2" diameter x 4ft x 90 ft chickenwire mesh	1 roll	/roll	-			
	consumables (5% of Material Cost)	1 lot	/lot	-			



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2	labor	no.	daily rate	no of days		-
		production rate	sq.m./manhour		days to complete	
	Leadman	1	/day		-	
	Skilled laborer	2	/day		-	
	Unskilled laborer	4	/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount	-
	scaffoldings/ H-frames, set	20	/day		-	
	minor tools (10% of Labor Cost)				-	
	Total Direct Cost (1 + 2 + 3)			-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4	-		
6	Contractor's Profit		of item 4	-		
7	Tax		5% of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php	-		cost per item
b.	Wall enclosure	62.8 sq.m				
1	material & description	quantity	unit cost		amount	-
	0.5 mm thick x 4ft width pre painted mini rib-type off-white metal sheet	121.75 l.m	/l.m.		-	
	0.5 mm thick x 18" x 8ft pre-painted steel wall flashing	6.00 pcs.	/pc.		-	
	consumables (5% of Material Cost)	1 lot	/lot		-	
2	labor	no.	daily rate	no of days	amount	-
		production rate	lm/manhour		days to complete	
	Leadman	1	/day		-	
	Skilled laborer	1	/day		-	
	Unskilled laborer	3	/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount	-
	scaffoldings/ H-frames, set	20	/day		-	
	minor tools (10% of Labor Cost)				-	
	Total Direct Cost (1 + 2 + 3)			-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4	-		
6	Contractor's Profit		of item 4	-		
7	Tax		5% of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php	-		cost per item
V.	ELECTRICAL WORKS					
a.	Conduits and Boxes	125 l.m.				
1	material & description	quantity	unit cost		amount	-
	20mm (3/4") x 1200mm PVC moulding conduit pipe	93 pcs.	/pc.		-	
	junction box(surface type)	12 pcs.	/pc.		-	
	utility box (surface type)	16 pcs.	/pc.		-	
	secondary rock spool	1 set	/set		-	
	conduit fittings	1 lot	/lot		-	
	consumables (5% of material cost)	1 lot	/lot		-	
2	labor	no.	daily rate	no of days	amount	-
		production rate	lm/manhour		days to complete	
	Leadman	1	/day		-	
	Skilled laborer	1	/day		-	
	Unskilled laborer	2	/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental	no of days	amount	-
	minor tools (10% of Labor Cost)	output rate	lm/manhour		days to complete	
			/day		-	
4	Total Direct Cost (1 + 2 + 3)			-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)		of item 4	-		
6	Contractor's Profit		of item 4	-		
7	Tax		5% of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php	-		cost per item



b.	Wires and Wiring Devices	150	l.m.				
1	material & description	quantity		unit cost		amount	-
	5.5 mm ² dia. THHN wire	20	l.m.		/ln.m.	-	
	3.5 mm ² dia. THHN wire	60	l.m.		/ln.m.	-	
	2.0mm ² dia. THHN wire	70	l.m.		/ln.m.	-	
	consumables (5% of material cost)	1	lot		/lot	-	
2	labor	no.	daily rate		no of days	amount	-
		production rate		lm/manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	1		/day		-	
	Unskilled laborer	1		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		unit/manhour		days to complete	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax		5%	of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 + 7)		Php			-	cost per item
c.	Electrical Fixtures	31	sets				
1	material & description	quantity		unit cost		amount	-
	One-gang switch, flush type, 10A, 230V (surface type)	5	set		/set	-	
	Three-gang switch, flush type, 10A, 230V (surface type)	1	set		/set	-	
	Duplex universal convenience outlet, flush type, 10A, 230V (surface type)	9	set		/set	-	
	2-T-8 LED lights with housing and diffuser	8	set		/set	-	
	5-watt round LED Pin light (recessed)	7	set		/set	-	
	ceiling mounted exhaust vent 8" x 8" incl. pipe and accessories	1	set		/set	-	
	consumables (5% of material cost)	1	lot		lot	-	
2	labor	no.	daily rate		no of days	amount	-
		production rate		unit/manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	1		/day		-	
	Unskilled laborer	1		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		unit/manhour		days to complete	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax		5%	of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 + 7)		Php			-	cost per item
d.	Panel Board/ Boxes/ Breakers	6	sets				
1	material & description	quantity		unit cost		amount	-
	Panel Board with Main Breaker and 6 Branches 2 poles	1	set		/set	-	
	Circuit Breaker, plug-in, 60A/230V (main)	1	set		/set	-	
	Circuit Breaker, plug-in, 30A/230V	1	set		/set	-	
	Circuit Breaker, plug-in, 20A/230V	2	set		/set	-	
	Circuit Breaker, plug-in, 15A/230V	1	set		/set	-	
	consumables (5% of material cost)		lot		lot	-	
2	labor	no.	daily rate		no of days	amount	-
	5.50hrs/ panel board	production rate		set/manhour		days to complete	
	Leadman	1		/day		0.00	
	Skilled laborer	1		/day		0.00	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		set/manhour		days to complete	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax		5%	of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 + 7)		Php			-	cost per item



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VI.	PLUMBING WORKS						
a.	Pipe Lines	25	l.m.				
1	material & description	quantity		unit cost		amount	-
	(4")-100mm dia. X 3000mm PVC pipe, s-1000	5	pcs.		/pc.	-	
	(1/2")-20mm dia. X 3000mm PPR pipe, PN20	6	pcs.		/pc.	-	
	1/2 " diameter brass gate valve	1	unit		/unit	-	
	assorted fittings	1	lot		/lot	-	
	consumables (5% of material cost)	1	lot		/lot	-	
2	labor (cut, fabricate, instalaltion)	no.	daily rate		no of days	amount	-
		production rate		lm/manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	1		/day		-	
	Unskilled laborer	2		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		lm/manhour		days to complete	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax			5% of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 +7)		Php		-		cost per item
b.	Plumbing Fixtures	11	units				
1	material & description	quantity		unit cost		amount	-
	lavatory sink ,wall-hung with basin top stainless faucet including fittings and accessories	2	units		/unit	-	
	stainless kitchen sink with drainboard (800 mm x 450 mm) best quality including fittings and accessories	1	units		/unit	-	
	water closet, lever type with seat cover best quality with assorted fittings and accessories	2	units		/unit	-	
	shower head with faucet	2	units		/unit	-	
	stainless floor drain with insect proof and odor trap	4	units		/unit	-	
	12 drums stainless steel water tank with elevated steel stand (at least 1.5 meters)	1	units		/unit	-	
	consumables (5% of material cost)	1	lot		/lot	-	
2	labor	no.	daily rate		no of days	amount	-
		production rate		unit/manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	1		/day		-	
	Unskilled laborer	2		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate	1	unit/manhour		days to complete	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax			5% of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 +7)		Php		-		cost per item
VII.	ARCHITECTURAL FINISHINGS						
a.	Ceiling Works	135.34	sq.m				
1	material & description	quantity		unit cost		amount	-
	Interior ceiling-4.5 mm thick Fiber Cement Board	34	pcs.		/pc.	-	
	eaves-4.5 mm thick Fiber Cement Board (slotted/perforated)	12	pcs.		/pc.	-	
	25mm x 3000mm x .5 mm thick Wall Angle	55	pcs.		/pc.	-	
	12mm x 38mm x 5000mm x .5mm thick Carrying Channel	46	pcs.		/pc.	-	
	19mm x 50mm x 5000mm x .5mm thick Double Metal Furring	50	pcs.		/pc.	-	
	consumables (5% of material cost)	1	lot		/lot	-	



2	labor	no.	daily rate		no of days	amount	-
		production rate		sq.m./manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	2		/day		-	
	Unskilled laborer	4		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		m ² /manhour		days to complete	
	scaffoldings/ H-frames	40		/day		-	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item
b.	Dry wall partition	72.00	sq.m.				
	***Interior walls activity area and pantry	41.84	sq.m.				
	***male and female quarters	30.16	sq.m.				
1	material & description	quantity	unit cost			amount	-
	4.5 mm thick Fiber Cement Board	25	pcs.	/pc.		-	
	.4mm thick x 50mm x 75mm x 3m metal track	8	pcs.	/pc.		-	
	.4mm thick x 50mm x 75mm x 3m metal stud	51	pcs.	/pc.		-	
	consumables (5% of material cost)	1	lot	/lot		-	
2	labor	no.	daily rate		no of days	amount	-
		production rate		m ² /manhour		days to complete	
	Leadman	1		/day		-	
	Skilled laborer	1		/day		-	
	Unskilled Laborer	2		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		m ² /manhour		days to complete	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item
c.	Tileworks (Unglazed Floor Tiles)	146.72	sq.m.				
1	material & description	quantity	unit cost			amount	-
	0.6mx 0.60m non-skid unglazed tiles (darker shade)	393	pcs.	/pc		-	
	0.4mx 0.40m non-skid unglazed tiles (lighter shade-comfort rooms)	35	pcs.	/pc		-	
	cement	34.00	bags(40kg)	/bag		-	
	sand	4.00	m ³	/m ³		-	
	tile adhesive	14.00	bags(20kg)	/bag		-	
	tile grout	15.00	bags(5kg)	/bag		-	
	consumables (5% of Material Cost)	1	lot	/lot		-	
2	labor	no.	daily rate		no of days	amount	-
		production rate		m ² /manhour		days to complete	
	Leadman	1		/day		-	
	skilled laborer	2		/day		-	
	unskilled laborer	4		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate				days to complete	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item



d.	Tileworks (glazed wall tiles)	18.00	sq.m.				
	***Male & Female Quarters Cr (walls) at 1.5m height	18.00					
1	material & description	quantity		unit cost		amount	-
	0.40mx 0.40m glazed wall tiles	113.00	pcs.	/pc.		-	
	cement	6.00	bag	/bag		-	
	sand	1.00	m ³	/m ³		-	
	tile adhesive	3.00	bags	/bag		-	
	tile grout	3.00	bags	/bag		-	
	consumables (5% of Material Cost)	1	lot	/lot		-	
2	labor	no.	daily rate		no of days	amount	-
		production rate		m ² /manhour		days to complete	
	Leadman	1		/day		-	
	skilled laborer	1		/day		-	
	unskilled laborer	2		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate				days to complete	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax			5% of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 + 7)		Php			-	cost per item
e.	Kitchen counter and Cabinetry including floating shelf	1.00	l.s.				
1	material & description	quantity		unit cost		amount	-
	3/4" thick x 1200mm x 2440mm mdf laminated wood counter	3.00	pcs.	/pc.		-	
	2" x 2" x 6000mm square tubulars	8.00	pcs.	/pc.		-	
	hardwares and accessories	1.00	lot	/lot		-	
	welding rod	3.00	kg.	/kg.		-	
	Red oxide metal primer (2 coats only)	1.00	gal.	/gal.		-	
	consumables (5% of Material Cost)	1	lot	/lot		-	
2	labor	no.	daily rate		no of days	amount	-
		production rate		m ² /manhour		days to complete	
	Leadman	1		/day		-	
	skilled laborer	1		/day		-	
	unskilled laborer	2		/day		-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate				days to complete	
	Welding Machine			/day		-	
	minor tools (10% of Labor Cost)			/day		-	
4	Total Direct Cost (1 + 2 + 3)					-	
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4		-	
6	Contractor's Profit			of item 4		-	
7	Tax			5% of item 4 + 5 + 6		-	
8	Total Unit Cost (4 + 5 + 6 + 7)		Php			-	cost per item
f.	Aluminum Windows	10.92	sq.m.				
1	material & description	quantity		unit cost		amount	-
	2 sets W1-2000mm x 1300mm Powder coated aluminum window, awning-sliding type	5.2	sq.m.	/sq.m.		-	
	2 sets W2-2400mm x 900mm, Powder Coated aluminum window,awning sliding type	4.32	sq.m.	/sq.m.		-	
	1 sets W3- 1800mm x 900mm , Powder Coated aluminum window, awning-sliding type	1.62	sq.m.	/sq.m.		-	
	2 set W4- 600mm x 3000mm, Powder coated aluminum window, awning type	2.6	sq.m.	/sq.m.		-	
	1 set W5- 750mm x 600mm, Powder coated aluminum window, awning type	0.9	sq.m.	/sq.m.		-	
	consumables (5% of material cost)		lot	lot		-	



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2	labor	no.	daily rate		no of days	amount	-
		production rate		m ² /manhour		days to complete	
	Leadman	1	/day			-	
	skilled laborer	1	/day			-	
	unskilled laborer	1	/day			-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		m ² /manhour		days to complete	
	minor tools (10% of Labor Cost)		/day			-	
4	Total Direct Cost (1 + 2 + 3)						
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4			
6	Contractor's Profit			of item 4			
7	Tax		5%	of item 4 + 5 + 6			
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item
g.	Doors	5	sets				
1	material & description	quantity		unit cost		amount	-
	D1- 900mm x 2100mm, Steel door with steel jamb, including lockset and accessories, slate gray	1	sets	/set		-	
	D2- 800mm x 2100mm, HDF laminated Dark wood finish with lever type handle and wood Door Jamb painted, including lockset and accessories	2	sets	/set		-	
	D3- 750mm x 2100mm, HDF laminated Dark wood finish with louvre, with lever type handle and wood Door Jamb painted, including lockset and accessories	2	sets	/set		-	
	consumables (5% of material cost)	1	lot	lot		-	
2	labor	no.	daily rate		no of days	amount	-
		production rate		m ² /manhour		days to complete	
	Leadman	1	/day			-	
	skilled laborer	1	/day			-	
	unskilled laborer	1	/day			-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		m ² /manhour		days to complete	
	minor tools (10% of Labor Cost)		/day			-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item
h.	Painting (Ceiling and Interior walls, exterior walls masonry)	262.78	sq.m.				
1	material & description	quantity		unit cost		amount	-
	Primer/sealer	12	gal.	/gal.		-	
	skim coat	11	bag	/bag		-	
	Semi-gloss latex (two coats only)	22	gal.	/gal.		-	
	Glazing Putty (Ceiling and Dry wall)	7	gal.	/gal.		-	
	Cementitious Water proofing (Comfort Rooms)	3	gal.	/gal.		-	
	consumables (5% of material cost)	1	lot			-	



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2	labor	no.	daily rate		no of days	amount	-
		production rate		m ³ /manhour		days to complete	
	Leadman	1	/day			-	
	skilled laborer	2	/day			-	
	unskilled laborer	4	/day			-	
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		m ³ /manhour		days to complete	
	scaffoldings/ H-frames	20	/day			-	
	minor tools (10% of Labor Cost)		/day			-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	-		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item
VIII	FIRE SAFETY	3.00	units				
1	material & description	quantity	unit cost		amount	-	
	Luminous Fire Safety Signages Fire Exits	1 units	/unit		-		
	Emergency light, Best Quality	1 units	/unit		-		
	20lbs Fire Extinguisher with cabinet, best quality	1 units	/unit		-		
	consumables (3% of material cost)	1 lot			-		
2	labor	no.	daily rate		no of days	amount	-
		production rate		m ³ /manhour		days to complete	
	Leadman	1	/day			-	
	Skilled laborer	1	/day				
3	equipment (rental based on ACEL rates)	unit	daily rental		no of days	amount	-
		output rate		m ³ /manhour		days to complete	
	minor tools (10% of Labor Cost)		/day			-	
4	Total Direct Cost (1 + 2 + 3)				-		
5	OCM (OVERHEAD, CONTINGENCIES & MISCELLANEOUS EXPENSES)			of item 4	-		
6	Contractor's Profit			of item 4	-		
7	Tax		5%	of item 4 + 5 + 6	0.00		
8	Total Unit Cost (4 + 5 + 6 + 7)		Php		-		cost per item
Total Project Cost						Php	-
Prepared by:							
Name of Contractor/ Bidder							