Republic of the Philippines
Benguet State University
La Trinidad, 2601 Benguet
TeleFax (074) 661-1839
www.bsu.edu.ph

BAGONG PILIPINAS

IB 2025-10A– REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM

(2ND INVITATION TO BID)

Project Location	BSU La Trinidad Campus, Balili, La Trinidad, Benguet
Brief Description	The project is a repair of 330 sq.m. roofing of the Swine Laboratory Farm. The scope of work includes finishing works, plumbing works and electrical works.
Approved Budget for the Contract (ABC)	**PhP. 1,000,000.00**
Contract Duration	45 calendar days
Amount of Bidding Documents	Php. 1,000.00

May 16, 2025

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 contracts, 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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BAGONG PILIPINAS

IB 2025-10A Repair and Upgrading of BSU Swine Laboratory Farm- 2nd Invitation to Bid

1. The *Benguet State University (BSU)*, through the *General Appropriations Act (GAA) – FY 2025* intends to apply the sum of *One Million Pesos only (Php. 1,000,000.00)* being the Approved Budget for the Contract (ABC) to payments under the contract for the *Repair and Upgrading of BSU Swine Laboratory Farm – IB 2025-10A*. 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 45 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 *May 17, 2025* from the 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* One Thousand Pesos only (Php. 1,000.00).

   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 1:30 PM, May 26, 2025. 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 2:00 PM, May 26, 2025 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
    Emal: ***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*

May 16, 2025

SGD
JANET P. PABLO
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 ***Repair and Upgrading of BSU Swine Laboratory Farm,*** *with Project Identification Number* ***IB 2025-10A***
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 2025*** in the amount of ***Php. 1,000,000.00.***
2.2. The source of funding is: ***FY 2025 General Appropriations Act***

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 *September 12, 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 (1) additional 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

<table>
<tr><th>ITB Clause</th><th></th></tr>
<tr><td>5.2</td><td>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</td></tr>
<tr><td>7.1</td><td>Subcontracting is not allowed</td></tr>
<tr><td>10.3</td><td>PCAB License requirement shall be:

Size Range: Small B
License Category: C & D
Principal Classification: General building/ General Engineering</td></tr>
<tr><td>10.4</td><td>The key personnel must meet the required minimum years of experience set below:
<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>Sanitary Engineer/ RMP</td><td>1</td><td>At least 3 years</td><td>At least 3 years</td></tr>
<tr><td>Registered Electrical Engineer/ RME</td><td>1</td><td>At least 3 years</td><td>At least 3 years</td></tr>
<tr><td>Part time 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>Construction Foreman</td><td>1</td><td>At least 3 years</td><td>At least 3 years</td></tr>
</table>
Note:
1. All the key personnel should have applicable and prescribed General and Relevant Experiences in line on specialization.
2. Key personnel must have valid PRC licenses/certificates/ accreditation and PTR and be presented during the Post Qualification</td></tr>
<tr><td>10.5</td><td>The minimum major equipment requirements are the following:
<table>
<tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr>
<tr><td>Welding Machine</td><td></td><td>1</td></tr>
<tr><td>Bar cutter</td><td></td><td>1</td></tr>
<tr><td>Power Tool</td><td></td><td>1</td></tr>
</table></td></tr>
</table>

	<table><tr><td>*Chain Block*</td><td></td><td>1</td></tr></table> *Note: Equipment will be inspected during the post qualification.*
12	*Alternative Bid is not Allowed*
15.1	The bid security shall be in the form of a Bid Securing Declaration **or** any of the following forms and amounts: a. The amount of not less than **2% of ABC***,* 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** if bid security is in Surety Bond.
16	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: 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 ***Note: The bidder shall affix his/her signature in all photocopied documents in the original copy of the bid.***
19.2	Partial bids are not allowed.
20	No further instruction.
21	Additional contract documents relevant to the Project as required: 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	*No further instructions*
4.1	*The Benguet State University shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.*
6	*No further instructions*
7.2	*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.
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.*
13	The amount of the advance payment is equivalent to fifteen percent (15%) *of the total contract price to be paid in a lump sum by BSU.*
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.*

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

Name of Project: **REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM**
Location: **BALILI, BSU LA TRINIDAD CAMPUS, LA TRINIDAD, BENGUET**

B.5 - PROJECT BILLBOARD / SIGNBOARD

B.5.1 Material Requirements:

Tarpaulin

The design and format of the tarpaulin shall have the following specifications:

Color	: White
Size	: 8 ft. x 8 ft.
Resolution	: 70 dpi
Font	: Helvetica
Font Size of Main Information	: 3 inches
Font Size of Sub-Information	: 1 inch
Font Color	: Black
Suitable Frame	: Rigid wood frame with post; and
Posting	: Outside display at the project location after award has been made.

The information shall contain but not limited to i.) logo of the funding agencies, ii.) the name of implementing agencies, iii.) name of contractor, iv.) project's title, location, cost and description, v.) project details to include duration, date started, target date of completion and project status, and vi.) COA Anti-corruption Hotline.

The display/and or affixture of the picture, image, motto, logo, color motif, initials or other symbol or graphic representation associated with the top leadership of the project proponent or implementing agency/unit/office, on project billboard, is considered unnecessary. (General Guidelines No. 2.2.6)

B.5.2 Post and Frame

Posts and frames/braces shall be made from good lumber with a 2X3 and 2x2 inches size respectively and shall be well-seasoned, straight and free of injurious defects. The frame will be covered with 2 pieces ¼ inch thick marine plywood where the tarpaulin will be attached.

B.5.3 Method of Measurement

The quantities of project billboard shall be in pieces of such signs of the size specified, including the necessary posts and supports erected and accepted.

B.5.4 Basis of Payment

The quantities measured as determined in the Method of Measurement, shall be paid for at the contract unit price for the Pay Items shown in the Bid Schedule which price and payment shall be full compensation for furnishing and installing project billboard, all labor, equipment, tools and incidentals necessary to complete the Item.

Payment will be made under:

Pay Item No.	Description	Unit of Measurement
B.5	Project Billboard / Signboard	Each

ITEM B.7 – OCCUPATIONAL SAFETY AND HEALTH PROGRAM

B.7.1 Description

A Company Safety Policy which shall serve as the general guiding principles in the implementation of safety and health on site duly signed by the highest company official or his duly authorized representative who has the over-all control of project execution and should include the contractor's general policy towards occupational safety, worker's welfare and health, and environment.

A Safety policy, which shall include the commitment that the contractor shall comply with DOLE minimum safety requirements, including reporting requirements of the Occupational Health and Safety Standards (OSHS), and other relevant DOLE issuances. These may include, but are not limited to the following:

Registration (Rule 1020 and DO 18---02)
Report of Safety Committee Organization (Rule 1040)

Notification of Accidents and Occupational Illnesses (Rule 1050)
Annual Work Accident/Illness Exposure Data Report (Rule 1050)
Application for installation of mechanical/electrical equipment for construction of structure for industrial use (Rule 1070 and 1160)
Annual Medical Report (Rule 1960)
1.2 Specific Construction Safety and Health Program shall contain the tendering agency's requirements in addition to the minimum requirements under the appropriate sections of D.O. No. 13 whenever deemed as applicable.

B.7.2 Method of Measurement
Payment shall be made on a proportional basis, calculated by multiplying the percentage rate of physical progress to the total lump sum amount every progress billing.

B.7.3 Basis of Payment
Payment will be made under:

Pay Item Number	Description	Unit of Measurement
B.7	Occupational Safety and Health Program	Lump Sum

ITEM 801(1) – REMOVAL OF STRUCTURES AND OBSTRUCTION

801(1) Description
This Item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed off under other items in the Contract. It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes, and pits.

All designated salvable material shall be removed, without unnecessary damage, in sections or pieces which may be readily transported, and shall be stored by the Contractor at specified places on the project or as otherwise shown in the Special Provisions. Perishable material shall be handled as designated in Subsection 100.2.2 Nonperishable material may be disposed off outside the limits of view from the project with written permission of the property owner on whose property the material is placed. Copies of all agreements with property owners are to be furnished to the Engineer/ Architect. Basements or cavities left by the structure removal shall be filled with acceptable material to the level of the surrounding ground and, if within the prism of construction, shall be compacted to the required density.

801(1).2 Method of Measurement
The payment will be made for removal of structures and obstructions on lump-sum basis, the pay item will include all structures and obstructions encountered within the project site. Where the contract stipulates that payment will be made for the removal of specific items on a unit basis, measurement will be made by the unit stipulated in the Contract.

Whenever the Bill of Quantities does not contain an item for any aforementioned removals, the work will not be paid for directly, but will be considered as a subsidiary obligation of the Contractor under other Contract Items.

The accepted quantities, measured as prescribed in section 801(1).1 shall be paid for at the contract unit price for the removal of existing structures and obstructions in the project site which price and payment shall be full compensation for furnishings and placing all materials, including all labor, equipment, tools, and incidentals necessary to complete the work prescribed in this item.

801(1).3 Basis of Payment
Payment will be made under:

Pay Item Number	Description	Unit of Measurement
801(1)	REMOVAL OF STRUCTURES AND OBSTRUCTION	lump sum

ITEM 1047 – METAL STRUCTURES
1047.1 Description
This work shall consist of steel structures and the steel structure portions of composite structures, constructed in reasonably close conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer/ Architect.
The work will include the furnishing, fabricating, hauling, erecting, welding and painting of structural metals called for in the Special Provision or shown on the Plans. Structural metals will include structural steel, rivet, welding, special and alloy steels,

steel forgings and castings and iron castings. This work will also include any incidental metal construction not otherwise provided for, all in accordance with these Specifications, Plans and Special Provisions.

1047.2 Material and Construction Requirements
Materials shall meet the requirements of Item 712, Structural Metal; Item 409, Welded Structural Steel, and Item 409, Welded Structural Steel; and Item 709, Paints.

1047.3 Method of Measurement

Pay Item Number	Description	Unit of Measurement
1047	METAL STRUCTURES	Lump Sum

ITEM 1014(1)b2 - PREPAINTED METAL SHEETS
1014(1)b2.1 Description
This Item shall consist of furnishing all pre-painted metal sheet materials, tools and equipment, plant including labor required in undertaking the proper installation complete as shown on the Plans and in accordance with this Specification.

1014(1)b2.2 Material Requirements
All pre-painted metal sheet and roofing accessories shall be oven baked painted true to profiles indicated on the ·Plans.

1014(1)b2.2.1 Pre-Painted Roofing Sheets
Pre-painted roofing sheets shall be fabricated from cold rolled galvanized iron sheets specially tempered steel for extra strength and durability. It shall conform to the material requirements defined in PNS 67: 1985. Profile section in identifying the architectural moulded rib to,be used are as follows: Regular corrugated, Quad-rib, Tri-wave, Rib-wide, twin-rib, etc. Desired color shall be subject to the approval of the Architect/Engineer.
1014.2.2 Gutters, Valleys, Flashings Hip and Ridge roll shall be fabricated from gauge 24 (.600 mm thick) cold-rolled plain galvanized iron sheets specially tempered steel. Profile section shall be as indicated on the Plans.
1014.2.3 Fastening hardware shall be of galvanized iron straps and rivets. G.I. straps are of .500 mm thick x 16 mm wide x 267 mm long (gauge 26 x 5/8" x 10-1/2") and standard rivets.

1014(1)b2.2.4 Base metal thickness shall correspond to the following gauge designation available locally as follows:

a) Base Metal Thickness — Designated Gauges

.400 mm thick	Gauge 28
.500 mm thick	Gauge 26
.600 mm thick	Gauge 24
.800 mm thick	Gauge 22

b) Protective Coatings — Thickness

1. Zinc	34.4 microns (244 gm/m2)
2. Paint coatings	Top coat 15.20 microns Bottom coat 6.8 microns

a) Overall thickness with protective coats

.400 mm	.428-451 mm
.500 mm	.532-551 mm
.600 mm	.638-651 mm

b) Length of roofing sheets - available in cut to length long span length up to 18.29 meters
c) Special length and thickness are available by arrangements.

1014(1)b2.3 Construction Requirements
Before any installation work is commenced, the Contractor shall ascertain that the top faces of the purlins are in proper alignment. Correct the alignment as necessary in order to have the top faces of the purlins on an even plane.

1014(1)b2.3.1 Handling/Lifting/Positioning of Sheets
Sheets shall be handled carefully to prevent damage to the paint coating. Lift all sheets or sheet packs on to the roof frame with the overlapping down-turned edge facing towards the side of the roof where installation will commence, otherwise sheets will have to be turned end-to-end during installation.

1014(1)b2.3.2 Installation Procedure

1014(1)b2.3.2.1 Start roofing installation by placing the first sheet in position with the downturned edge in line with other building elements and fastened to supports as recommended.
1014(1)b2.3.2.2 Place the downturned edge of the next sheet over the edge of the first sheet, to provide side lap and hold the side lap firmly in place. Continue the same procedure for subsequent sheets until the whole roofing area is covered and/or (Adopt installation procedure provided in the instruction manual for each type of Architectural molded rib profile section).

1014(1)b2.3.2.3 For walling applications follow the procedure for roofing. Allow a minimum end lap of 100 mm (4") for vertical walling.

1014(1)b2.3.3 Gutters, Valleys, Flashing ridge and Hip rolls

Gutters, valleys, flashing ridge and hip rolls shall be fastened where indicated on the Plans by self-tapping screws or galvanized iron straps and rivets.

1014(1)b2.3.4 End Laps
In case handling or transport consideration requires to use two or more end lapped sheets to provide full length coverage for the roof run, install each line of sheets from bottom to top or from eave line to apex of roof framing. Provide 150 mm minimum end lap.

1014(1)b2.3.5 Anchorage/Fastening
1014(1)b2.3.5.1 Pre-painted steel roofing sheets shall be fastened to the wood purlins with standard length G.I. straps and rivets.
1014(1)b2.3.5.2 For steel frame up to 4.5 mm thick use self-drilling screw No. 12 by 35 mm long hexagonal head with neoprene washer.
1014(1)b2.3.5.3 For steel support up to 5 mm thick or more use thread cutting screw No. 12 by 40 mm long hexagonal head with neoprene washer.
1014(1)b2.3.5.4 Side lap fastener use self-drilling screw NO.1 0 by 16 mm long hexagonal head with neoprene washer.
1014(1)b2.3.5.5 Valley fastened to lumber and for walling use self-drilling wood screw No. 12 by 25 mm long hexagonal head with neoprene washer.
1014(1)b2.3.5.6 Valleys fastened to steel supports use self-drilling screws, hexagonal head with neoprene washer. Drill size is 5 mm diameter.
1014(1)b2.3.6 Cutting of Sheets

1014(1)b2.3.6.1 In cutting pre painted steel roofing sheets and accessories to place the exposed color side down. Cutting shall be carried out on the ground and not over the top of other painted roofing product.

1014(1)b2.3.6.2 Power cutting or drilling to be done or carried out on pre-painted products already installed or laid in position, the area around holes or cuts shall be masked to shield the paint from hot fillings.

1014(1)b2.3.7 Storage and Protection
Pre-painted steel roofing, walling products and accessories should be delivered to the jobsite in strapped bundles. Sheets and/or bundles shall be neatly stacked in the ground and if left in the open it shall be protected by covering the stack materials with loose tarpaulin.

1014(1)b2.4 Method of Measurement
The work done under this Item shall be measured by actual area covered or installed with pre-painted steel roofing and/or walling in square meters and accepted to the satisfaction of the Engineer/Architect.

1014(1)b2.5 Basis of Payment
The area of pre-painted steel roofing and/or walling in square meters as provided in Section 1014(1)b2 shall be paid for at the unit bid or contract unit price which payment shall constitute full compensation including labor, materials, tools and incidents necessary to complete this Item.

Payment shall be made under:

Pay Item Number	Description	Unit of Measurement
1014(1)b2	PRE PAINTED METAL SHEETS	SQ.M.

ITEM 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM

1001.1 Description

This Item shall consist of furnishing all materials, equipment and labor for the complete installation of the storm drainage system to include all piping's, gutters, canals, catch basins, junction boxes, hand holes, manholes and other appurtenant structures, and sewerage system to include all sanitary sewer piping and septic vault where no public sewer exist, from the building to the point of discharge.

1001.2 Material Requirements

1001.2.1 Materials for storm drainage system shall meet the requirements specified in the following standard specifications:

Portland Cement	ASTM C-150
Fine and Coarse Aggregate	ASTM C-33
Reinforcing Steel	ASTM A-615
Non-reinforced Concrete Pipes	ASTM C-14
Reinforced Concrete Pipes	ASTM C-76 (AASHTO M-86)
Cast Iron Pipes (for conductors and downspout)	ASTM A-74
Galvanized Iron Pipes Scheduled 40 (for conductors and downspouts)	ASTM A-120
Polyvinyl Chloride (PVC) (for conductors and downspouts)	ASTM 2729

Where the covers for catch basins, junction boxes, manholes and canals for gratings are required same shall be made of wrought iron and of the dimensions as shown on the Plans.

1001.2.2 Materials for sewerage system shall meet the requirements specified in the following standard specifications:

Cast Iron Pipes and Fittings	ASTM A-74
Pig Lead (for securing and sealing joint)	ASTM B 29-77
PVC Pipes and Fittings (where called in Plans)	ASTM 01784
Solvent Cement (for securing PVC joints)	ASTM 02564

Where PVC pipes and fittings are used, joints shall be secured with rubber "0" ring or solvent cement, as the case maybe. Oakum for joints in bell and spigot pipes shall be made from hemp fiber, braided or twisted and oil impregnated free from lumps, dirt and extraneous matter.

1001.3 Construction Requirements

1001.3.1 Installation of Pipes

Under no circumstances shall pipes shall be laid under water and when the trench condition or the weather is unsuitable for such work.

a. Bedding. Materials such as sand, sandy soil or any approved material shall be used to provide a firm foundation of uniform density. The bedding shall have a minimum thickness equivalent to one-fourth (1/ 4) of the pipe's diameter.
b. Laying of Pipes. Proper facilities shall be provided for lowering and' placing pipes into trenches in order to preclude damage. Laying of pipes shall start upgrade with the spigot end of bell-and-spigot pipe, or the tongue end of tongue-and-groove pipe, positioned towards the direction of the flow. The pipes shall be laid in accordance with the grades and alignments shown in the Plans.

The spigots or tongues shall be adjusted in bells or grooves to provide uniform space around joints to receive mortar. Blocking or wedging between spigot and bell or between tongue and groove to attain proper spacing shall be allowed provided such blocking/wedging shall not interfere and shall not affect the water tightness of the joint.

c. Bell and Spigot Joint for Drain Pipe. The first pipe shall be properly bedded at the required grade. Just below the spigot of the first unit, a sufficient space shall be provided for engaging the bell end of the second pipe.

The spigot shall be carefully cleaned with a wet brush and the upper exterior portion applied with mortar to such a thickness as to bring the inner surfaces of the abutting pipes flush and even. The bell end of the second pipe shall be cleaned with a wet brush and uniformly matched with the spigot of the first pipe so that the sections are closely fitted. After the second pipe is laid, the remainder of the joint shall be fitted with mortar, and a bead shall be formed around the outside of the joints with sufficient amount of additional mortar. The inside of the joints shall be wiped and finished smooth. The mortar bead on the outside shore immediately be protected with a cover of wet burlap or wet earth for at least three (3) days for curing.

d. Tongue and Groove Joint for Concrete Pipe. The first pipe shall be properly bedded. A shallow excavation shall be made underneath the joint and filled with mortar to provide a bed second pipe. The tongue end of the first pipe shall be carefully cleaned with wet brush and soft mortar applied around the upper half of the tongue. After cleaning and positioning the second pipe close to the first, mortar shall be applied around the lower half of the groove. With just sufficient thrust, the second pipe shall be brought in close contact with the first until mortar is squeezed out of the joint. Sufficient mortar shall be used to fill the joint and to form a bead on the outside.

e. Mortar for Joint. Mortar shall be a mixture of Portland Cement, sand and water mixed in the proportion by volume of one part cement to two parts of clean sand with just sufficient amount of water for plasticity.
f. Leaded Joints of Cast Iron Pipes. Joints of cast iron pipes shall be packed with braided or twisted oil-impregnated hemp or oakum, properly caulked around the joint. The packing shall be at least 20mm below the rim of the hub or bell and this space shall be filled with molten pig lead in one continuous pouring. The "ring" of pig lead formed around the joint shall be properly caulked by appropriate caulking tools to render the joints watertight.

1001.3.2 Concrete structures.
Concrete structures such as catch basins, canal gutters, junction boxes and manholes for the drainage system, and septic vault for sewerage system, shall be constructed in accordance with the Plans and Specifications on Concrete Work.

1001. 3.2 Sewer Connections and Clean-Outs

a) The outlet of the septic vault shall be connected to the street drain or to other discharge point where no sanitary sewer exists. Connection with the sanitary sewer shall not be made without the permission of the proper authorities, but shall be made in such a manner that any and all the service water, as well as house and other liquid wastes, will flow to the sanitary sewer. Provided, that isolated faucets used exclusively for garden purposes may, in the discretion of the proper authorities, be allowed not to flow into the sanitary sewer.
b) Clean-outs or rodding holes consisting of cast iron extensions with long sweep elbow fittings shall be provided at the ends of runs and at every change of directions. Clean-outs shall be capped with cast brass ferrules with threads and screwed-on removable brass plugs. Clean-outs extended outside the building and raised to the level of finished grade shall be terminated with the same cast brass ferrule with brass plug set into a concrete slab shall be 150mm thick and 300mm square, finish flush with grade.

1001.3.2 Incidental Earthwork
Incidental earthwork for the storm drainage and sewerage systems, such as excavation and backfilling shall be undertaken in accordance with applicable part of Excavation Filling and Grading.

1001.3.3 Inspection and Quality Control
Materials shall be inspected and accepted as to quality before same are installed. Piping's installed in trenches shall first be inspected, tested and approved by the Engineer before these are covered or backfilled. All defects/ lakes disclosed by the water test shall be remedied to the satisfaction of the Engineer/ Architect and any extra cost shall be at the expense of the Contractor.

1001.4 Method of Measurement
Pipes, culverts, gutters, canals and gratings installed in place and accepted by the Engineer/ Architect, shall be measured by the meter along their axes. Catch basins, junction boxes, manholes and septic vault shall be measured by the number of units constructed and accepted.

1001.5 Basis of Payment
The quantities as determined in sub-section 1001.4 shall be paid at the contract unit price for each of the Items which shall constitute full compensation for all materials, labor, tools and equipment and all other incidentals necessary to complete the Item.

Payment shall be made under:

Pay Item Number	Description	Unit of Measurement
1001.2	STORM DRAINAGE AND SEWER SYSTEM	LUMP SUM

Section VII. Drawings

IB 2025-10A Repair and Upgrading of BSU Swine Laboratory Farm

Please see attached plans and design

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 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, (***strictly follow the form 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 a final rating of at least Satisfactory in the CPES, or a similar performance and monitoring system. In case of contracts with the private sector, an equivalent document shall be submitted (***strictly follow the form 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 and similar performance and monitoring system, 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 ***(strictly follow form in Section X);*** **and**

g. Project Requirements, which shall include the following:

1. Organizational chart for the procurement project to be bid;

2. List of contractor's key personnel, to be assigned to the procurement project 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*
Sanitary Engineer/ RMP	*1*	*At least 3 years*	*At least 3 years*
Registered Electrical Engineer/ RME	*1*	*At least 3 years*	*At least 3 years*
Part time Safety Officer – Part time, with COSH training from accredited provider by DOLE	*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, or under purchase agreements supported by proof of ownership or certification of availability of equipment from the equipment lessor or vendor for the duration of the project, as the case may be; **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)
7. Certificate of Site Inspection

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:

NFCC = (CA-CL) (15) – 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
GOVERNMENT								
PRIVATE								

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)	
GOVERNMENT									
PRIVATE									

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.

A F F I D A V I T

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]

Republic of the Philippines
gppb
Government Procurement Policy Board

BILL OF QUANTITIES

PROJECT TITLE: **REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM**
LOCATION : **BSU COMPOUND, BALILI, LA TRINIDAD, BENGUET**
ABC : Php. 1,000,000.00
PROJECT DURATION: 45 C.D. INCLUSIVE OF: 7 UNWORKABLE DAYS
IMPLEMENTATION MODE: BY CONTRACT

PROJECT DESCRIPTION	EQUIPMENT NEEDED		TECHNICAL PERSONEL	
	NO.	DESCRIPTION	NO.	DESCRIPTION
THE PROJECT IS A REPAIR OF 330 SQ.M. ROOFING OF THE SWINE LABORATORY FARM. THE SCOPE OF WORK INCLUDES FINISHING WORKS, PLUMBING WORKS AND ELECTRICAL WORKS.	1	Welding Machine	1	Site Architect / Site Engineer
	1	Bar Cutter	1	Sanitary Engineer / RMP
	1	Power Tool	1	Registered Electrical Engineer / RME
	1	Chain Block	1	Construction Foreman
			1	Part Time Safety Officer

ITEM NO.	DESCRIPTION	% WEIGHT	QUANTITY	UNIT	UNIT COST	TOTAL COST
I.	**OTHER GENERAL REQUIREMENTS**					
B.5.	PROJECT BILLBOARD / SIGNBOARD		1.00	EACH		
B.7.	OCCUPATIONAL SAFETY AND HEALTH PROGRAM		1.00	LUMPSUM		
A.	**EARTHWORK**					
801(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (DISMANTLING OF EXISTING ROOF)		1.00	LUMPSUM		
B.	**MISCELLANEOUS STRUCTURES**					
1111(1)	REINFORCED CONCRETE PEDESTAL (PIPE POST INCLUDED)		1.00	LUMPSUM		
C.	**FINISHINGS AND OTHER CIVIL WORKS**					
1007	STEEL DOOR AND FRAMES (DOOR INSTALLATION)		3.00	SET/S		
604	FENCING (CYCLONE WIRING ENCLOSURE)		65.82	L.M.		
1047	METAL STRUCTURES (TRUSSES, PURLINS, BOLTS, CROSS BRACING, & STEEL PLATES)		1.00	LUMPSUM		
1013	CORRUGATED METAL ROOFING (INSTALLATION OF ROOFING AND ROOFING SHEET FOR WALL)		330.95	SQ.M.		
D.	**PLUMBING WORKS**					
1002(27)	PLUMBING WORKS (INSTALLATION OF ROOF DRAINAGE SYSTEM AND WATER LINE)		84.00	L.M.		
E.	**ELECTRICAL WORKS**					
1101(33)	WIRES AND WIRING DEVICE		1.00	LUMPSUM		
1102	POWER LOAD CENTER, SWITCHGEAR, AND PANELBOARDS (INSTALLATION)		1.00	LUMPSUM		
1103	LIGHTINGS FIXTURES (INSTALLATION)		17.00	SET/S		
	TOTAL BID COST					

	BREAKDOWN OF BID COST:		**TOTAL COST**
A.	**DIRECT COST**		
	EQUIPMENT LABOR MATERIALS		
B.	**INDIRECT COST**		
	OCM CONTRACTOR'S PROFIT TAXES		
C.	**PROJECT COST(TOTAL A+B)**		
	AMOUNT OF BID COST IN FIGURES:		

TOTAL BID COST (IN FIGURES)

TOTAL BID AMOUNT IN WORDS:

_____

_____

I hereby submit the foregoing bid; and that I understood the terms and conditions and the content.

_____
NAME OF BIDDER/CONTRACTOR w/ SIGNATURE

NAME OF CONSTRUCTION FIRM/ COMPANY:_____
DATE: _____

DETAILED ESTIMATES

PART B: OTHER GENERAL REQUIREMENTS

ITEM NO.:	B.5	UNIT:	EACH
DESCRIPTION:	PROJECT BILLBOARD / SIGNBOARD	QUANTITY:	1.00

	DESCRIPTION	QTY	HOURS	UNIT COST	AMOUNT
A.	Equipment Rental: (To include Operators, Helpers, Fuel and Lubricants)				
a.	Minor Tools				
				Equipment Total	
B.	Labor				
a.	Skilled Laborer				
				Skilled Sub Total	
b.	Laborers				
				Unskilled Sub Total	
				Labor Total	
C.	Materials				
a.	Printed Billboard Tarpaulin	5.76	sq.m.		
b.	1/4"x1.2mx2.44m Ordinary Plywood	2	pcs.		
c.	Good Lumber (Frames)	40	bd.ft.		
d.	Assorted CWNs	1	kg.		
				Material Total	

D.	DIRECT COST(A+B+C)		
E.	OCM	DIRECT COST	
F	Contractor's Profit	DIRECT COST	
G.	Tax	5% (DC+OCM+CP)	
H.	INDIRECT COST (E+F+G)		
I.	TOTAL ITEM COST(D+H)		
		Unit Cost/each	

PART I.: OTHER GENERAL REQUIREMENTS

ITEM NO.:	B.7	UNIT:	LUMP SUM
DESCRIPTION:	OCCUPATIONAL SAFETY AND HEALTH	QUANTITY:	1.00

	DESCRIPTION	QTY	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental: (To include Operators, Helpers, Fuel and Lubricants)				
a.	None	-	-	-	-
				Equipment Total	-
B.	Labor				
a.	Safety Practitioner/ Officer (Part Time)				
				Skilled Sub Total	
b.	None	-	-	-	-
				Unskilled Sub Total	-
				Labor Total	-
C.	Materials				
a.	Safety Helmet	6	man-days		
b.	Safety Shoes	6	man-days		
c.	Safety Gloves	6	man-days		
d.	Reflectorized Vest	6	man-days		
e.	Rain Coats	1	man-days		
f.	Dust Mask	1	man-days		
g.	Eye Gogles	1	man-days		
h.	Ear Muff	1	man-days		
i.	Body Harness and Lanyard	2	man-days		
j.	Rubber Boots	4	man-days		
k.	Safety First Signage (2' x 3')	1	sets		
l.	Warning Signs (2' x 3')	2	sets		
m.	Caution Tape, 100ft	1	rolls		
n.	Safety Net (1/8"x2.7m x 20m)or Equivalent	1	rolls		
				Material Total	

D.	DIRECT COST(A+B+C)		
E.	OCM	0% DIRECT COST	0.00
F	Contractor's Profit	DIRECT COST	
G.	Tax	5% (DC+OCM+CP)	
H.	INDIRECT COST (E+F+G)		
I.	TOTAL ITEM COST(D+H)		
		Unit Cost/lump sum	

Submitted by:

NAME OF BIDDER/CONTRACTOR w/ SIGNATURE

PART A: EARTHWORKS

ITEM NO.: 801 (1) UNIT: LUMPSUM

DESCRIPTION: REMOVAL OF STRUCTURES AND OBSTRUCTIONS (DISMANTLING OF EXISTING ROOF) QUANTITY: 1.00

	DESCRIPTION	QTY.	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental: (To include Operators, Helpers, Fuel & Lubricants)				
a.	Grinder				
c.	Chain Block				
b.	Minor Tools				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Semi-skilled Laborer				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials:				
a.	4" Dia. Metal Cutting Disc.	8.00	pcs		
				Materials Total	

D.	DIRECT COST (A+B+C)		
E.	OCM	of Direct Cost	
F.	Contractor's Profit	of Direct Cost	
G.	Tax	5.00% of (DC + OCM +CP)	
H.	INDIRECT COST (E+F+G)		
I.	TOTAL ITEM COST (D+H)		
			Unit Cost/ lump sum

PART B: MISCELLANEOUS STRUCTURES

ITEM NO.: 1111(1) UNIT: LUMP SUM

DESCRIPTION: REINFORCED CONCRETE PEDESTAL (PIPE POST INCLUDED) QUANTITY: 1.00

	DESCRIPTION	QTY	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental(To include fuel, oil, lubricants, and equipment maintenance)				
a.	Minor Tools (10% of Labor Cost)				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Skilled Laborers				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials				
a.	Portland Cement	3	bags		
b.	Gravel	0.1	cu.m.		
c.	Sand	0.2	cu.m.		
d.	16mm Dia. RSB Deformed (GRADE 33)	18	kgs.		
e.	10mm Dia. RSB Deformed (GRADE 33)	25	kgs.		
f.	#16 Galvanized Iron Wire	0.64	kgs.		
g.	Good Lumber-3Uses	17	bd.ft.		
h.	Ordinary Plywood (0.125m x 1.2m x 2.44m)-3uses	1	pcs.		
i.	100mm Dia. x 6m G.I. Pipe	7	pcs.		
j.	16mmΦ x 300mm Long Bent Anchor Bolts with Washer and Nut	96	pcs.		
h.	0.25m x 0.25m x 12mm Steel Base Plate	24	pcs.		
k.	Red Oxide Metal Primer	2	gals.		
l.	Miscellaneous (5% of Material Cost)	1	lump sum		
				Material Total	

D.	DIRECT COST(A+B+C)		
E.	OCM	DIRECT COST	
F.	Contractor's Profit	DIRECT COST	
G.	Tax	5% (DC+OCM+CP)	
H.	INDIRECT COST(E+F+G)		
I.	TOTAL ITEM COST(D+H)		
			Unit Cost/lump sum

Submitted by:

_____

NAME OF BIDDER/CONTRACTOR w/ SIGNATURE

PART C: FINISHINGS AND OTHER CIVIL WORKS

ITEM NO.:	1007	UNIT:	SETS
DESCRIPTION:	STEEL DOOR AND FRAMES (DOOR INSTALLATION)	QUANTITY:	3

	DESCRIPTION	QTY	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental(To include fuel, oil, lubricants, and equipment maintenance)				
a.	Minor Tools (10% of Labor Cost)				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Skilled Laborers				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials				
a.	D-1 (Refer to Door Schedule)	3	sets	7,000.00	
b.	Consumables (1% material cost)	1	lump sum	0.00	
				Material Total	
D.	DIRECT COST(A+B+C)				
E.	OCM	DIRECT COST			
F.	Contractor's Profit	DIRECT COST			
G.	Tax	5% (DC+OCM+CP)			
H.	INDIRECT COST(E+F+G)				
I.	TOTAL ITEM COST(D+H)				
				Unit Cost/set	

PART B: MISCELLANEOUS STRUCTURES

ITEM NO.:	604	UNIT:	L.M.
DESCRIPTION:	FENCING (CYCLONE WIRING ENCLOSURE)	QUANTITY:	65.82

	DESCRIPTION	QTY	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental(To include fuel, oil, lubricants, and equipment maintenance)				
a.	Welding Machine				
b.	Minor Tools (10% of Labor Cost)				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Skilled Laborers				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials				
a.	1.2m X 27m Cyclone Wire G1X4 (GAUGE 10)	2	roll		
b.	50 mm Dia. B.I. Steel Pipe Sched 40, Welded	19	pcs.		
c.	Welding Rod	15	kgs		
d.	Miscellaneous (Clip/Tie, (Square bar)Tension Bar, Etc.)	1	lump sum		
				Material Total	
D.	DIRECT COST(A+B+C)				
E.	OCM	DIRECT COST			
F.	Contractor's Profit	DIRECT COST			
G.	Tax	5% (DC+OCM+CP)			
H.	INDIRECT COST(E+F+G)				
I.	TOTAL ITEM COST(D+H)				
				Unit Cost/l.m.	

Submitted by:

_____

NAME OF BIDDER/CONTRACTOR w/ SIGNATURE

PART C: FINISHINGS AND OTHER CIVIL WORKS

ITEM NO.: 1047 UNIT: LUMP SUM

DESCRIPTION: METAL STRUCTURES (TRUSSES, PURLINS, BOLTS, CROSS BRACING, & STEEL PLATES) QUANTITY: 1

	DESCRIPTION	QTY.	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental: (To include Operators, Helpers, Fuel & Lubricants)				
a.	Welding Machine				
b.	Steel Cutter				
c.	Chain Block				
d.	Minor Tools				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Skilled Laborer				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials:				
a.	50mm x 50mm x 6mm Thk. x 6m Structural Angle Bar	1411	kgs.		
b.	25mm x 25mm x 6mm thk. x 6m Structural Angle Bar	921	kgs.		
c.	50mm X 75mm X 1.1mm Thick C-Purlin	44	pcs.		
d.	Welding Rod	47	kgs.		
e.	Red Oxide Metal Primer	3	gals.		
f.	16mm dia. X 50mm Bolts Washer & Nut	64	pcs.		
g.	6mm Thick Steel Gusset Plate	1	lumpsum		
h.	0.15m x 0.15m x 6mm Steel Base Plate	16	pcs.		
i.	pre-painted 250mm x 0.4mm thk. Galvanized Metal Fascia board panel	55	l.m.		
j.	Miscellaneous (cutting disks, etc.)	1	lumpsum		
				Materials Total	

D.	DIRECT COST (A+B+C)		
E.	OCM		of Direct Cost
F.	Contractor's Profit		of Direct Cost
G.	Tax	5.00%	of (DC + OCM +CP)
H.	INDIRECT COST (E+F+G)		
I.	TOTAL ITEM COST (D+H)		

Unit Cost/ lump sum

PART C: FINISHINGS AND OTHER CIVIL WORKS

ITEM NO.: 1013 UNIT: SQ.M.

DESCRIPTION: CORRUGATED METAL ROOFING (INSTALLATION OF ROOFING AND ROOFING SHEET FOR WALL) QUANTITY: 331

	DESCRIPTION	QTY.	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental: (To include Operators, Helpers, Fuel & Lubricants)				
a.	Minor Tools				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Skilled Laborer				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials:				
a.	Baguio Green 10 Ft. x 0.4mm THK. Pre Painted G.I. Sheet Corrugated Roof	30	pcs.		
b.	Baguio Green 16 Ft. x 0.4mm Thk. Pre Painted G.I. Sheet Corrugated Roof	53	pcs.		
c.	Pre-Painted Ridge Roll GA24(0.701mm) x 2.44m	29	l.m.		
d.	Pre-Painted End Flashing GA24(0.701mm) x 2.44m	170	l.m.		
e.	Pre-Painted Gutter GA24(0.701mm) x 2.44m	55	l.m.		
g.	Blind Rivets (5/32 x 1/2)	4611	pcs.		
h.	Tekscrew 12x65mm (STEEL)	993	pcs.		
i.	Silicon Sealant	5	pcs.		
j.	Miscellaneous (1% of Materials)	1	lumpsum		
				Materials Total	

D.	DIRECT COST (A+B+C)		
E.	OCM		of Direct Cost
F.	Contractor's Profit		of Direct Cost
G.	Tax	5.00%	of (DC + OCM +CP)
H.	INDIRECT COST (E+F+G)		
I.	TOTAL ITEM COST (D+H)		

Unit Cost/ sq.m.

Submitted by:

NAME OF BIDDER/CONTRACTOR w/ SIGNATURE

PART D: PLUMBING WORKS

ITEM NO.: 1002(27) UNIT: L.M.

DESCRIPTION: PLUMBING WORKS (INSTALLATION OF ROOF DRAINAGE SYSTEM AND WATER LINE) QUANTITY: 84

	DESCRIPTION	QTY	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental(To include fuel, oil, lubricants, and equipment maintenance)				
a.	Minor Tools (10% of Labor Cost)				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Semi- skilled Laborers				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials				
a.	Faucet Brass	6	pcs.		
b.	Gate Valve	1	pcs.		
c.	1" Dia. PPR Pipe, PN 10	51	l.m.		
d.	Assorted PPR Pipe Fittings Various Dia.	1	lump sum		
e.	50mm Dia. x 3m PVC Pipe	11	pcs.		
f.	50mm Dia. PVC Assorted Pipe Fittings	1	lump sum		
g.	Solvent Cement	2	can		
h.	Saddle Clamps for PVC Pipe	1	lump sum		
i.	Consumables (5% material cost)	1	lump sum		
				Material Total	
D.	DIRECT COST(A+B+C)				
E.	OCM	DIRECT COST			
F.	Contractor's Profit	DIRECT COST			
G.	Tax	5% (DC+OCM+CP)			
H.	INDIRECT COST(E+F+G)				
I.	TOTAL ITEM COST(D+H)				
				Unit Cost/l.m.	

PART E: ELECTRICAL WORKS

ITEM NO.: 1101(33) UNIT: LUMPSUM

DESCRIPTION: WIRES AND WIRING DEVICE QUANTITY: 1

	DESCRIPTION	QTY	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental(To include fuel, oil, lubricants, and equipment maintenance)				
a.	Minor Tools (10% of Labor Cost)	-		-	
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Skilled Laborers				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials				
a.	Electric Wire 3.5mm2 THWN/THHN	120	l.m.		
b.	Electric Wire 2.0mm2 THWN/THHN	130	l.m.		
c.	Electric Wire 5.5mm2 THWN/THHN	3	l.m.		
d.	Two Gang Switch (Surface Type and Weather Proof)	2	set/s		
e.	One Gang Switch (Surface Type and Weather Proof)	1	set/s		
f.	Duplex Conveniece Outlet Wide Series	12	set/s		
g.	Consumables (Electrical Tapes, etc.)	1	lump sum		
				Material Total	
D.	DIRECT COST(A+B+C)				
E.	OCM	DIRECT COST			
F.	Contractor's Profit	DIRECT COST			
G.	Tax	5% (DC+OCM+CP)			
H.	INDIRECT COST(E+F+G)				
I.	TOTAL ITEM COST(D+H)				
				Unit Cost/lump sum	

Submitted by:

NAME OF BIDDER/CONTRACTOR w/ SIGNATURE

PART E: ELECTRICAL WORKS

ITEM NO.: 1102 UNIT: LUMPSUM

DESCRIPTION: POWER LOAD CENTER, SWITCHGEAR, AND PANELBOARDS (INSTALLATION) QUANTITY: 1.00

	DESCRIPTION	QTY.	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental: (To include Operators, Helpers, Fuel & Lubricants)				
a.	Minor Tools				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Skilled Laborer				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials:				
a.	Panel Board w/ Main Breaker & 6 Branches 2 Poles, Bolt-On (Weather Proof Casing)	1	set		
b.	Circuit Breaker, plug-in, 30A/230V (main)	1	set		
c.	Circuit Breaker, plug-in, 15A/230V	3	set		
d.	Circuit Breaker, plug-in, 20A/230V	3	set		
f.	KWHR Service Meter, C.T. Rated	1	unit		
g.	Consumables (5% material cost)	1	lump sum		
				Materials Total	

D.	DIRECT COST (A+B+C)		
E.	OCM		of Direct Cost
F.	Contractor's Profit		of Direct Cost
G.	Tax	5.00%	of (DC + OCM +CP)
H.	INDIRECT COST (E+F+G)		
I.	TOTAL ITEM COST (D+H)		

Unit Cost/ lump sum

PART E: ELECTRICAL WORKS

ITEM NO.: 1103 UNIT: SETS

DESCRIPTION: LIGHTINGS FIXTURES (INSTALLATION) QUANTITY: 17

	DESCRIPTION	QTY	DAYS	UNIT COST	AMOUNT
A.	Equipment Rental(To include fuel, oil, lubricants, and equipment maintenance)				
a.	Minor Tools (10% of Labor Cost)				
				Equipment Total	
B.	Labor:				
a.	Leadman				
b.	Skilled Laborers				
				Skilled Sub-Total	
c.	Laborers				
				Unskilled Sub-Total	
				Labor Total	
C.	Materials				
a.	T-8 LED Light with Housing, Industrial	17	set/s		
b.	Consumables (Electrical Tapes, etc.)	1	lump sum		
				Material Total	

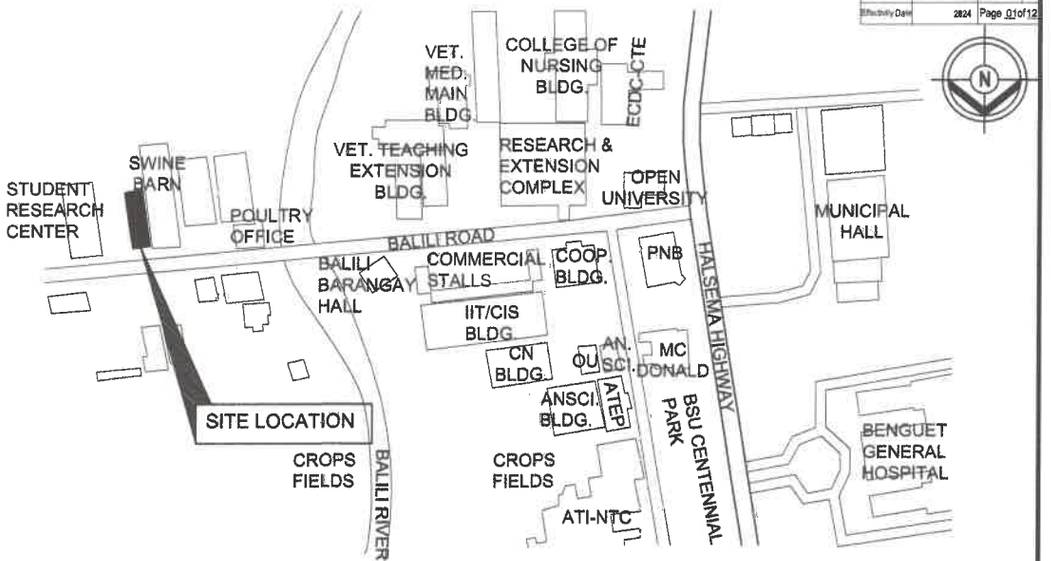
D.	DIRECT COST(A+B+C)		
E.	OCM		DIRECT COST
F.	Contractor's Profit		DIRECT COST
G.	Tax	5%	(DC+OCM+CP)
H.	INDIRECT COST(E+F+G)		
I.	TOTAL ITEM COST(D+H)		

Unit Cost/sets

Submitted by:

NAME OF BIDDER/CONTRACTOR w/ SIGNATURE

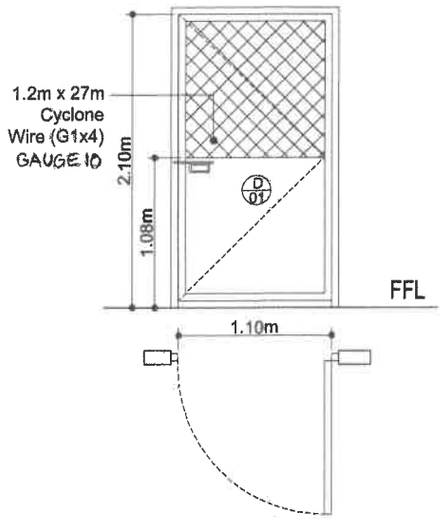
A 01|01 **EXTERIOR PERSPECTIVES**
SCALE N.T.S.



A 01|01 **VICINITY MAP**
SCALE N.T.S.

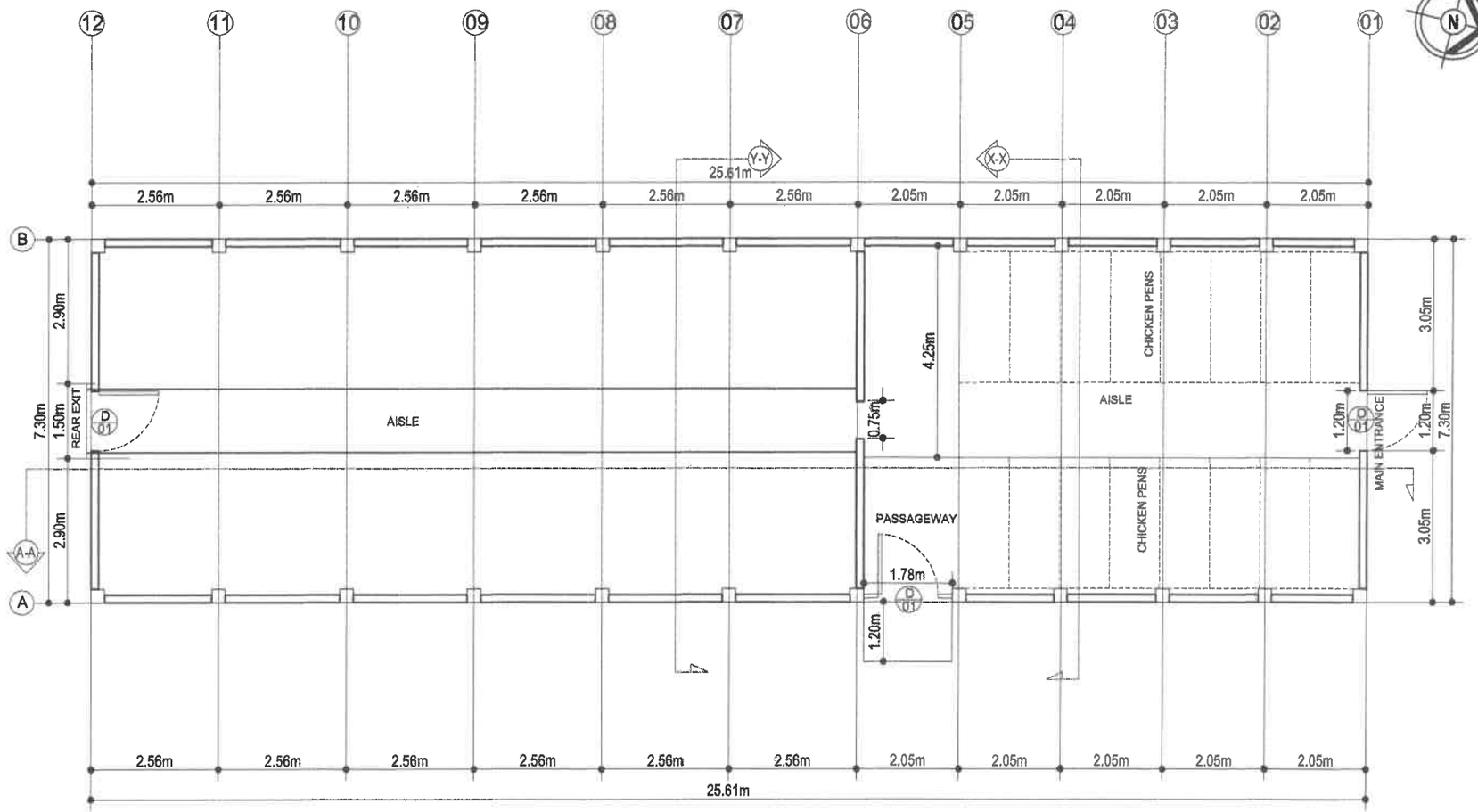
A 01|01 **SITE DEVELOPMENT PLAN**
SCALE 1:400MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO._____ - LA TRINIDAD -_____ ARCHITECT	ENGINEER	DRAFTED BY: ERGD 2024	OWNER/ PROJECT TITLE/ LOCATION **"REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM"** BSU COMPOUND, BALILI, LA TRINIDAD, BENGUET	CONFORME: **LEO S. LARUAN** END-USERs	CONFORME: **CONSTANTINO T. SUBAYPAN** END-USERS	RECOMMENDING APPROVAL: **ALLAN CASLDO SACPA** VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED: **KENNETH ALIP LARUAN** UNIVERSITY PRESIDENT	SHEET CONTENT: **AS SHOWN**	SHEET A 01-05



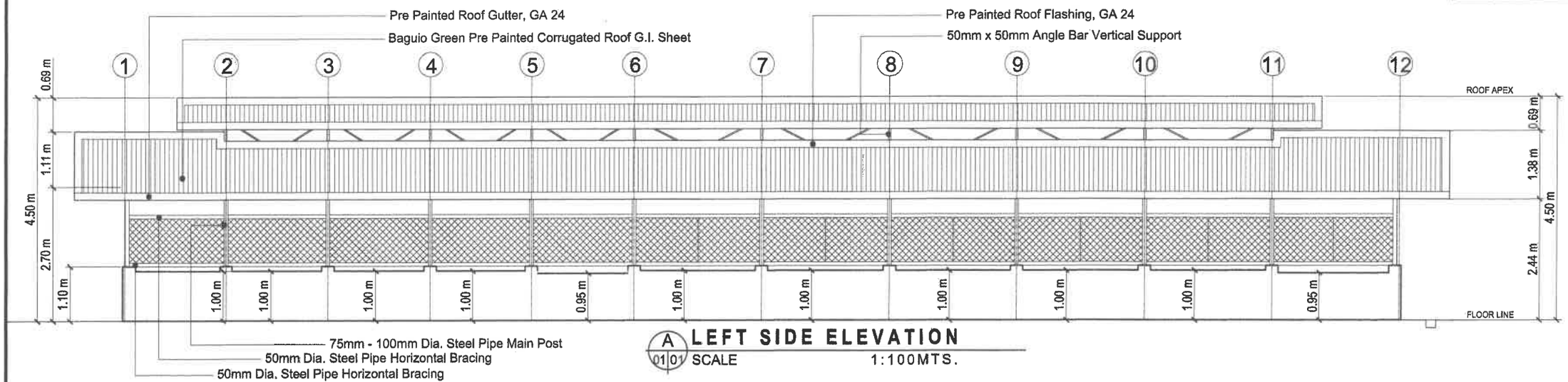
D-01	TYPE:	FABRICATED SWING STEEL DOOR ON A STEEL DOOR JAMB AND COMPLETE WITH HARDWARE AND ACCESSORIES.
3-SET/S	LOCATION:	ENTRY/ EXIT

A 01|01 **DOORS SCHEDULE**
SCALE 1:50MTS.

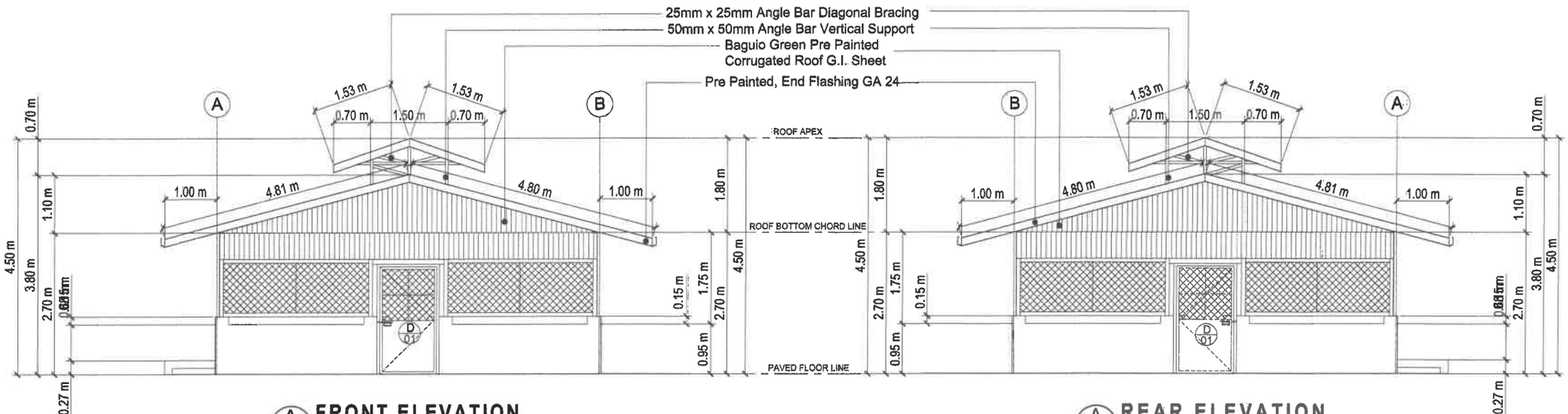


A 01|01 **FLOOR PLAN**
SCALE 1:125MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO._____ - LA TRINIDAD -_____ ARCHITECT		DRAFTED BY: ERGD 2024	OWNER/ PROJECT TITLE/ LOCATION "REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM" BSU COMPOUND, BALILI, LA TRINIDAD, BENGUET	CONFORME: LEO S. LARUAN END-USERs	CONFORME: CONSTANTINO T. SUDAYPAN END-USERs	RECOMMENDING APPROVAL: ALLAN CASLDO SACPA VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED: KENNETH ALIP LARUAN UNIVERSITY PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A 02-05



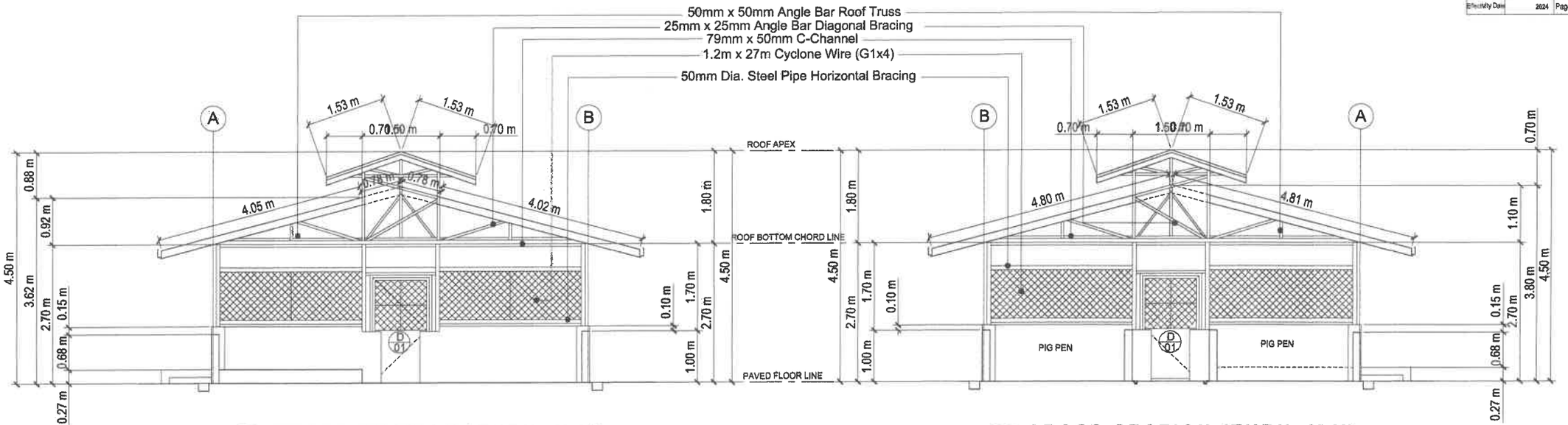
A 01|01 **LEFT SIDE ELEVATION**
SCALE 1:100MTS.



A 01|01 **FRONT ELEVATION**
SCALE 1:100MTS.

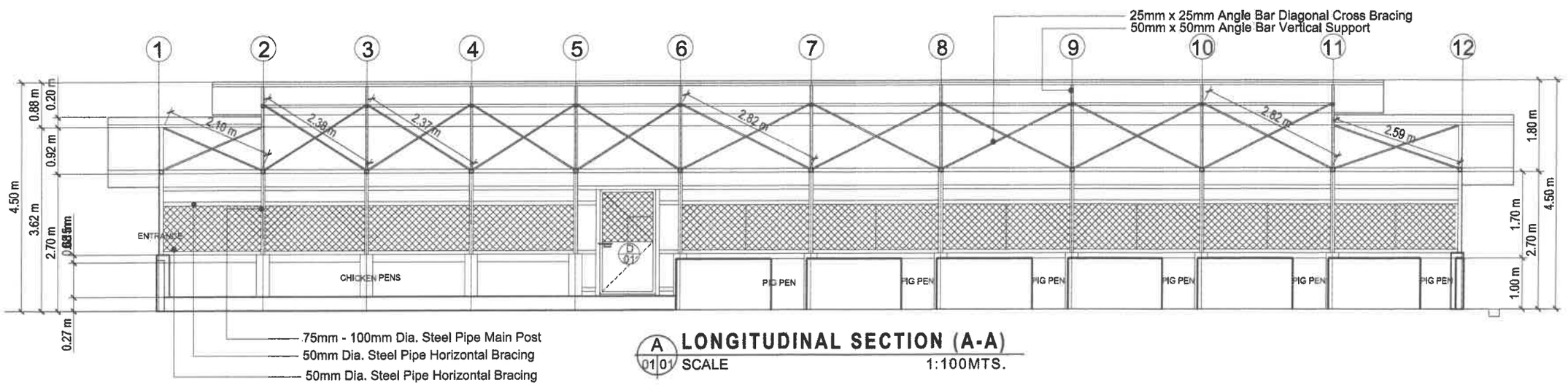
A 01|01 **REAR ELEVATION**
SCALE 1:100MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO._____- LA TRINIDAD-_____ ARCHITECT	ENGINEER	DRAFTED BY: ERGD 2024	OWNER/ PROJECT TITLE/ LOCATION "REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM" BSU COMPOUND, BALILI, LA TRINIDAD, BENGUET	CONFORME: LEO S. LARUAN END-USERs	CONFORME: CONSTANTINO T. SUDAYRAN END-USERS	RECOMMENDING APPROVAL: ALLAN CASLDO SACPA VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED: KENNETH ALIP LARUAN UNIVERSITY PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A 03-05



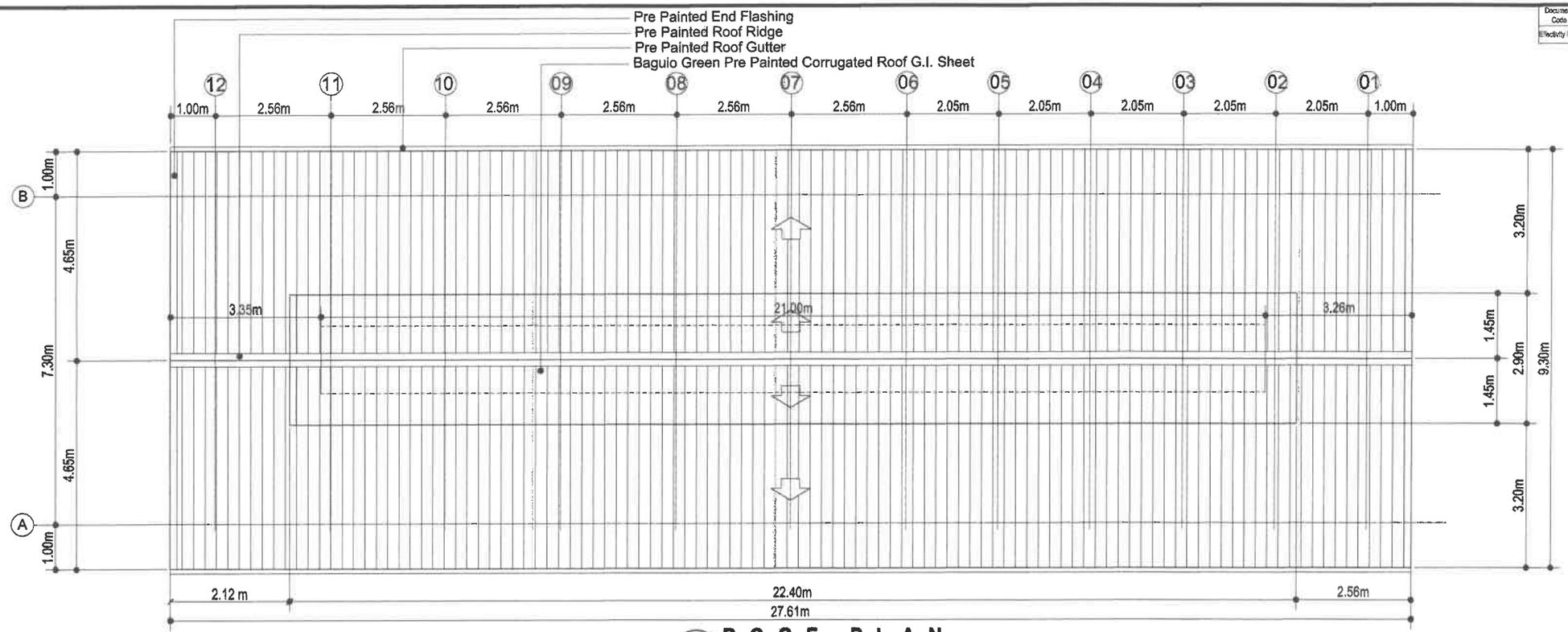
A 01|01 **CROSS SECTION (THRU X-X)**
SCALE 1:100MTS.

A 01|01 **CROSS SECTION (THRU Y-Y)**
SCALE 1:100MTS.

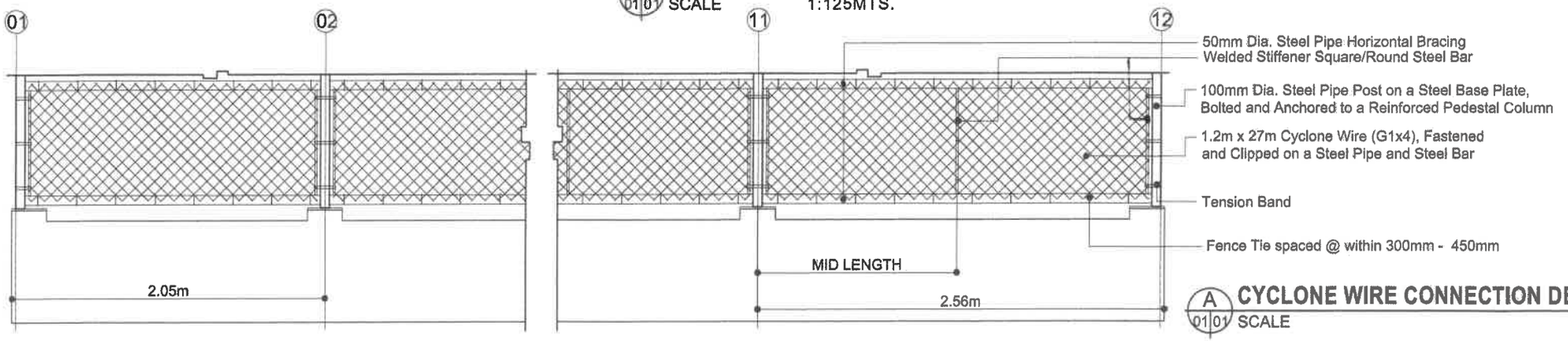


A 01|01 **LONGITUDINAL SECTION (A-A)**
SCALE 1:100MTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028540 - NOV.18, 2024 PTR NO._____ - LA TRINIDAD -_____ ARCHITECT	ENGINEER	DRAFTED BY: ERGD 2024	OWNER/ PROJECT TITLE/ LOCATION **"REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM"** BSU COMPOUND, BALILI, LA TRINIDAD, BENGUET	CONFORME: **LEO S. LARUAN** END-USERs	CONFORME: **CONSTANTINO Y. SUMYPAN** END-USERs	RECOMMENDING APPROVAL: **ALLAN CASLDO SACPA** VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED: **KENNETH ALIP LARUAN** UNIVERSITY PRESIDENT	SHEET CONTENT: **AS SHOWN**	SHEET A 04-05

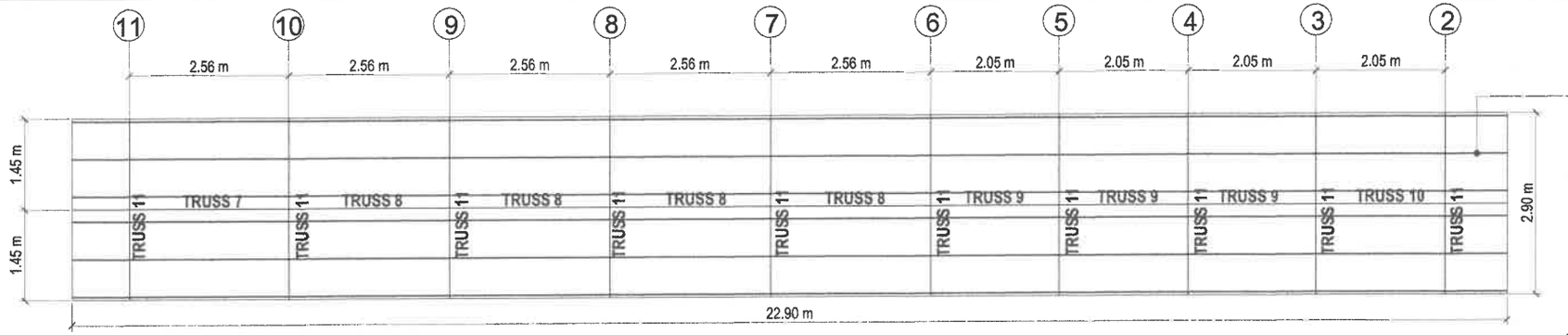


A 01|01 **ROOF PLAN**
SCALE 1:125MTS.

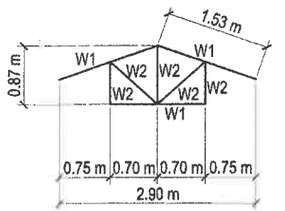


A 01|01 **CYCLONE WIRE CONNECTION DETAIL**
SCALE NTS.

ARCH. HAZELINE N. TIBANGAY, UAP PRC REG. NO. 028510 - NOV.18, 2024 PTR NO._____ - LA TRINIDAD -_____ ARCHITECT	ENGINEER	DRAFTED BY: ERGD 2024	OWNER/ PROJECT TITLE/ LOCATION "REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM" BSU COMPOUND, BALILI, LA TRINIDAD, BENGUET	CONFORME: LEO S. LARUAN END-USERs	CONFORME: CONSTANTINO T. TUDAYRAN END-USERs	RECOMMENDING APPROVAL: ALLAN CASLDO SACPA VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED: KENNETH ALIP LARUAN UNIVERSITY PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET A 05-05



50mm x 75mm x 1.1mm thk.
C-Purlins Spaced @ 600mm O.C.

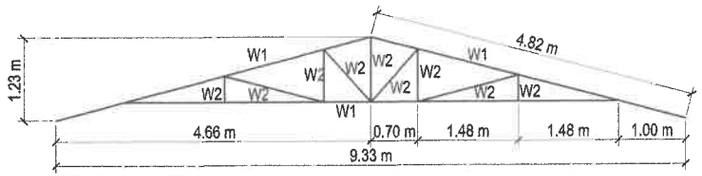


TRUSS 11- 10 SETS

SCHEDULE OF TRUSS- 11		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.

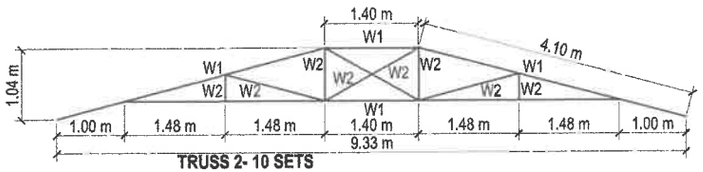
S 01 01 TOP ROOF FRAME LAYOUT

SCALE 1:100MTS.



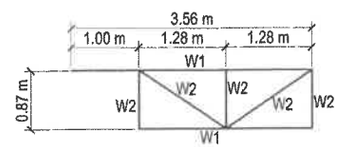
TRUSS 1 - 2 SETS

SCHEDULE OF TRUSS- 1		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.

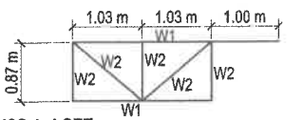


TRUSS 2- 10 SETS

SCHEDULE OF TRUSS- 2		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.



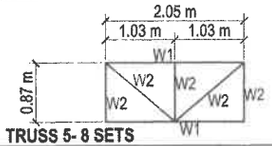
TRUSS 3- 1 SET



TRUSS 4- 1 SET

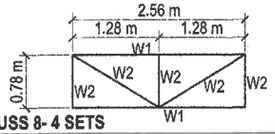
SCHEDULE OF TRUSS- 3		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.

SCHEDULE OF TRUSS- 4		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.



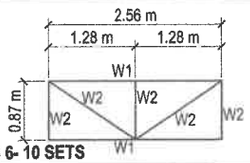
TRUSS 5- 8 SETS

SCHEDULE OF TRUSS- 5		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.



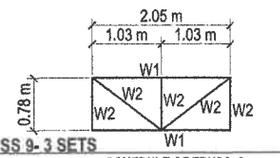
TRUSS 8- 4 SETS

SCHEDULE OF TRUSS- 8		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.



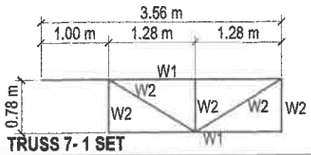
TRUSS 6- 10 SETS

SCHEDULE OF TRUSS- 6		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.



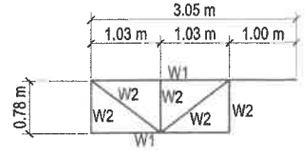
TRUSS 9- 3 SETS

SCHEDULE OF TRUSS- 9		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.



TRUSS 7- 1 SET

SCHEDULE OF TRUSS- 7		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.

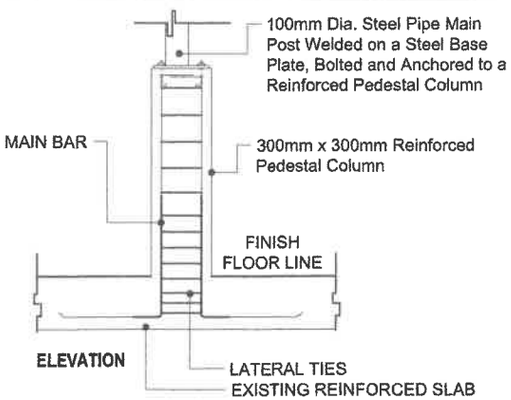


TRUSS 10- 1 SET

SCHEDULE OF TRUSS- 10		
MARK	DESCRIPTION	SIZE
W1	TOP/ BOTTOM CHORD	2 - 50mm x 50mm x 5mm thk.
W2	WEB MEMBERS	2 - 25mm x 25mm x 5mm thk.

COLUMN PEDESTAL SCHEDULE

HEIGHT	NO. COLUMN	COLUMN DIMENSION	REINFORCING BAR	
			MAIN BAR	LATERAL TIES
1100 mm from the Finish Floor Line	3 COLUMN	300mm X 300mm	4PCS -16mm Dia.	10mm DIA. - 3 @ 75mm, 5 @ 100mm, REST @ 150mm



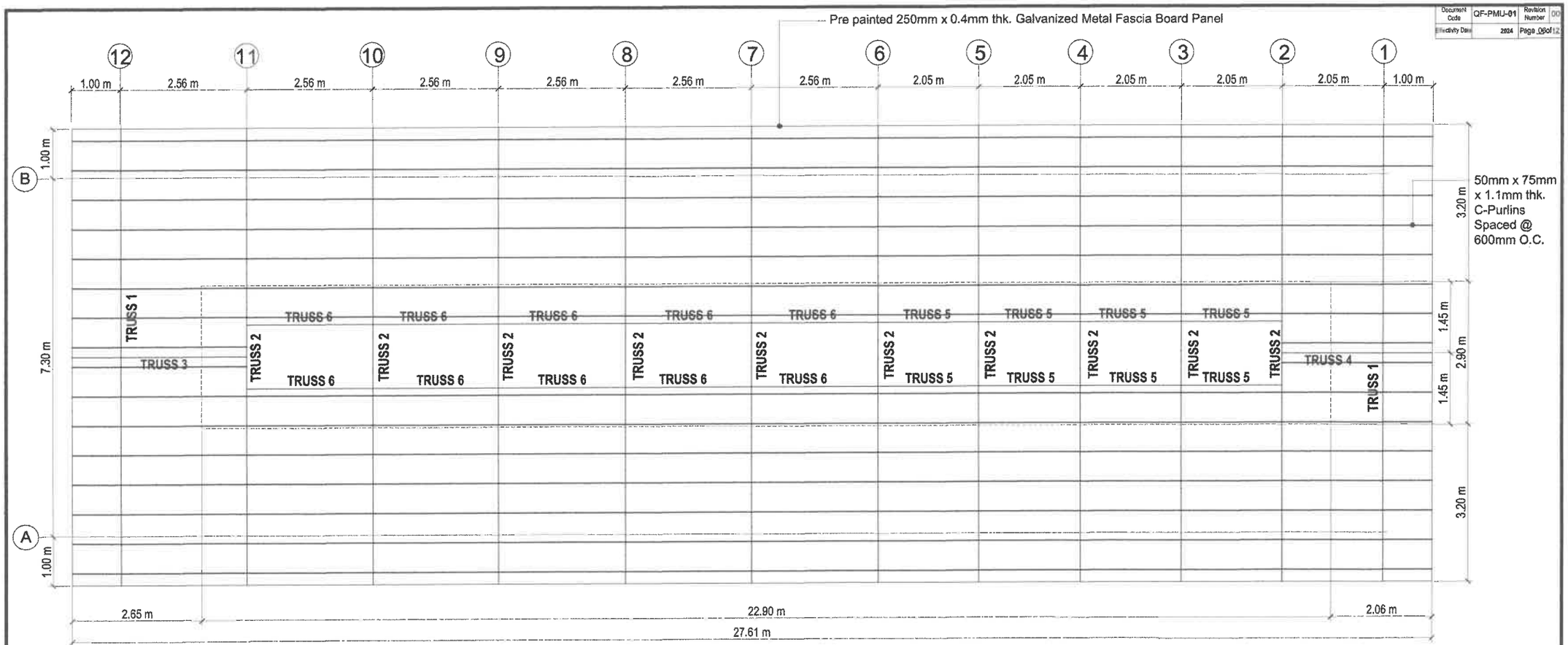
S 01 01 ROOF TRUSSES DETAILS

SCALE NTS.

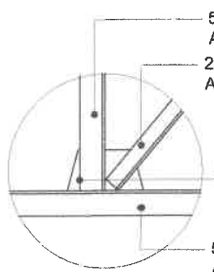
S 01 01 PLANTED PEDESTAL COLUMN DETAIL

SCALE NTS.

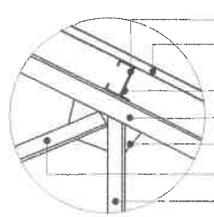
HAZELINE N. TIBANGAY UAP, PMU HEAD Project Management Unit ARCHITECT	SHERIFF JOHN C. LA MADRID PROJECT DEVELOPMENT OFFICER III, Project Management Unit ENGINEER	DRAWN BY: ERGD 2024	OWNER/ PROJECT TITLE/ LOCATION "REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM" BSU COMPOUND, BALILI, LA TRINIDAD, BENGUET	CONFORME: LEO S. LARUAN END-USERs	CONFORME: CONSTANTINO H. SUDIYPAN END-USERs	RECOMMENDING APPROVAL: ALLAN CASLDO SACPA VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED: KENNETH ALIP LARUAN UNIVERSITY PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET S 02-02



S 01|01 **MAIN ROOF FRAME LAYOUT**
SCALE 1:100MTS.



TYPICAL BOTTOM CHORD SPOT DETAILS



TYPICAL TOP CHORD SPOT DETAILS

HAZELINE N. TIBANGAY UAP, PMU HEAD Project Management Unit ARCHITECT	**SHERIFF JOHN C. LA MADRID** PROJECT DEVELOPMENT OFFICER III, Project Management Unit ENGINEER	DRAWN BY: ERGD 2024	OWNER/ PROJECT TITLE/ LOCATION **"REPAIR AND UPGRADING OF BSU SWINE LABORATORY FARM"** BSU COMPOUND, BALILI, LA TRINIDAD, BENGUET	CONFORME: **LEO S. LARUAN** END-USERs	CONFORME: **CONSTANTINO T. SODAPAN** END-USERs	RECOMMENDING APPROVAL: **ALLAN CASLDO SACPA** VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	APPROVED: **KENNETH ALIP LARUAN** UNIVERSITY PRESIDENT	SHEET CONTENT: **AS SHOWN**	SHEET S 01-02

ELECTRICAL GENERAL NOTES:

1. ALL ELECTRICAL WORKS SHALL CONFORM TO THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE, TO THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED AND THE REQUIREMENTS OF LOCAL UTILITY COMPANIES.
2. WIRING METHODS SHALL BE AS FOLLOWS
   a. MAIN SERVICE ENTRANCE - RIGID STEEL CONDUIT (RSC)
   b. RACEWAYS SURFACE MOUNTED IN CONCRETE WALL AND EMBEDDED IN CONCRETE FLOORING - POLYVINYL CHLORIDE (PVC)
   c. RACEWAYS NOT EMBEDDED IN CONCRETE - ELECTRICAL METALLIC TUBING (EMT)
3. SERVICE VOLTAGE ENTERING THE STRUCTURE SHALL BE 230 VOLTS SINGLE PHASE TWO WIRE SYSTEM.
4. MINIMUM SIZE OF WIRE AND OF CONDUIT SHALL BE 2.0 mm Ø THHN (#14 AWG) AND 15mm (1/ 2") NOMINAL DIAMETER RESPECTIVELY, UNLESS OTHERWISE SPECIFIED ON PLANS.
5. NO BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN 80% OF IT'S RATING.
6. ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE APPROPRIATE FOR BOTH LOCATION AND INTENDED USE.
7. UNLESS OTHERWISE SPECIFIED PULL BOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INDICATED ON PLANS.
8. FOR EACH SPARE CIRCUIT IN PANEL BOARD, PROVIDE AN EMPTY CONDUIT 20mm Ø (3/ 4") DIAMETER TERMINATING TO A COVERED SQUARE BOX.
9. ALL LOADS SHALL BE PROPERLY AND ADEQUATELY GROUNDED.
10. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE AS LOCATION AND PURPOSE.
11. KITCHEN PLANS SHALL GOVERN ON THE ACTUAL LOCATION AND DIMENSION PRIOR TO ROUGH-IN OF CONDUIT AND PIPES.
12. ALL INSTALLATIONS AND WIRING SHALL BE CONCEALED FROM VIEW AND SHALL BE ENCASED IN POLYVINYL CHLORIDE (PVC) CONDUITS OR ELECTRICAL METALLIC TUBING (BMT) OR RIGID STEEL CONDUITS (RSC).
13. ALL JUNCTION BOXES, DISCONNECTS, ETC. SHALL BE INSTALLED SO AS NOT TO INTERFERE WITH EQUIPMENT PLACEMENTS.
14. ALL 20-AMPERES CIRCUIT HOMERUN TO PANEL BOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5mm Ø THHN. (# 10), UNLESS OTHERWISE SPECIFIED ON PLANS.
15. LIGHT CONTROL SWITCHES SHALL BE RATED 10A 300V AND SHALL CARRY A LOAD GREATER THAN 50A.
16. AN EMPTY 3/ 4" DIA. RISER TERMINATING IN A 2" DEEP BY 4" OCTAGONAL BOX ABOVE CEILING SHALL BE PROVIDED TO ACCOMMODATE THE SPARE CIRCUIT IN PANEL BOARD.
17. ALL WORKS SHALL BE DONE WITH THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR A REGISTERED MASTER ELECTRICIAN.
18. NO ALTERATION SHALL BE DONE IN THE PLAN UNLESS NOTED BY THE DESIGNER AND OWNER.
19. OUTLET BOXES SHALL BE AS FOLLOWS:
    A. LIGHT OUTLETS 1-1/ 2" DEEP BY 4" OCTAGONAL BOX WITH ONE OR TWO WAY ENTRIES
    B.RECEPTACLES 2-1/ 8" DEEP 2"X4" UTILITY BOX ONE GANG WITH RAISED PLASTIC COVER
20. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

a. LIGHT SWITCHES. . . . . 1370mm ABOVE FLOOR FINISH (A.F.F.)
b. RECEPTACLES. . . . . 300mm (A.F.F.)
c. COUNTER HEIGHT OUTLET. . . . . 1300mm (A.F.F.)
d. TV/ TELEPHONE OUTLET. . . . . 300mm (A.F.F.)
e. DISCONNECT MAIN. . . . . 1370mm (A.F.F.)
f. PANEL BOARDS. . . . . 1700mm (A.F.F.)
g. OTHERS . . . . . REFER TO KITCHEN PLANS

PANEL BOARD LOAD TABULATION

CKT. NO.	DESCRIPTION	QTY.				VOLTS	WATTS	VA	AMPERE	TRIP BEAKER	P	KAIC	WIRE SIZE	CONDUIT SIZE
		L.O.	C.O.	S_1	S_2									
CKT. 01	T8 LED TUBE LIGHTING,36W	17		1	2	230V	36	612 W	2.661 AMP	15 AT	2	10	2-2.0mm²THHN	15mm Ø Conduit PVC
CKT. 02	DUPLEX CONVENIENCE OUTLET		6			230V	180	1080 W	4.696 AMP	20 AT	2	10	2-3.5mm²THHN	15mm Ø Conduit PVC
CKT. 03	DUPLEX CONVENIENCE OUTLET		6			230V	180	1080 W	4.696 AMP	20 AT	2	10	2-3.5mm²THHN	15mm Ø Conduit PVC
CKT. 04	SPARE													
CKT. 05	SPARE													
CKT. 06	SPARE													
	TOTAL	17	12	1	2			2772 W	12.053 AMP	30 AT			2-5.5 mm²THHN	20mm Ø Conduit PVC

LOAD COMPUTATION:

TOTAL CONNECTED LOAD= 2772 VA

I_{TOTAL} = 80% DEMAND FACTOR , AS PERMITTED BY THE NATIONAL ELECTRICAL CODE

$$\frac{2772 \times 80\%}{230 \text{ VOLTS}} = 9.642 \text{ AMP.}$$

USE: 30 AT, 2P, 230V, 10 KAIC FOR MAIN SERVICE PROTECTION

SUB-FEEDER AND PROTECTION USE: 8.0mm² or NO. 8 THW. COOPER WIRE
PVC CONDUIT PIPE USE 25mm Dia. PIPE

$$I_{TOTAL} = \frac{9.642 \times 230V}{1000} \times 120\% = 2.661 \text{ KVA}$$

ELECTRICAL LEGENDS:

SYMBOL	DESCRIPTION
	LED TUBE LIGHTING
	HOMERUN
	WIRE LINE
	SWITCH INDICATOR LINE
PB	PANEL BOX
M	ELECTRICAL METER
	CIRCUIT BREAKER
CO_{-D}	DUPLEX CONVENIENCE OUTLET
S_1	SINGLE SWITCH
S_2	TWO GANG SWITCH
	GROUND
	SERVICE ENTRANCE

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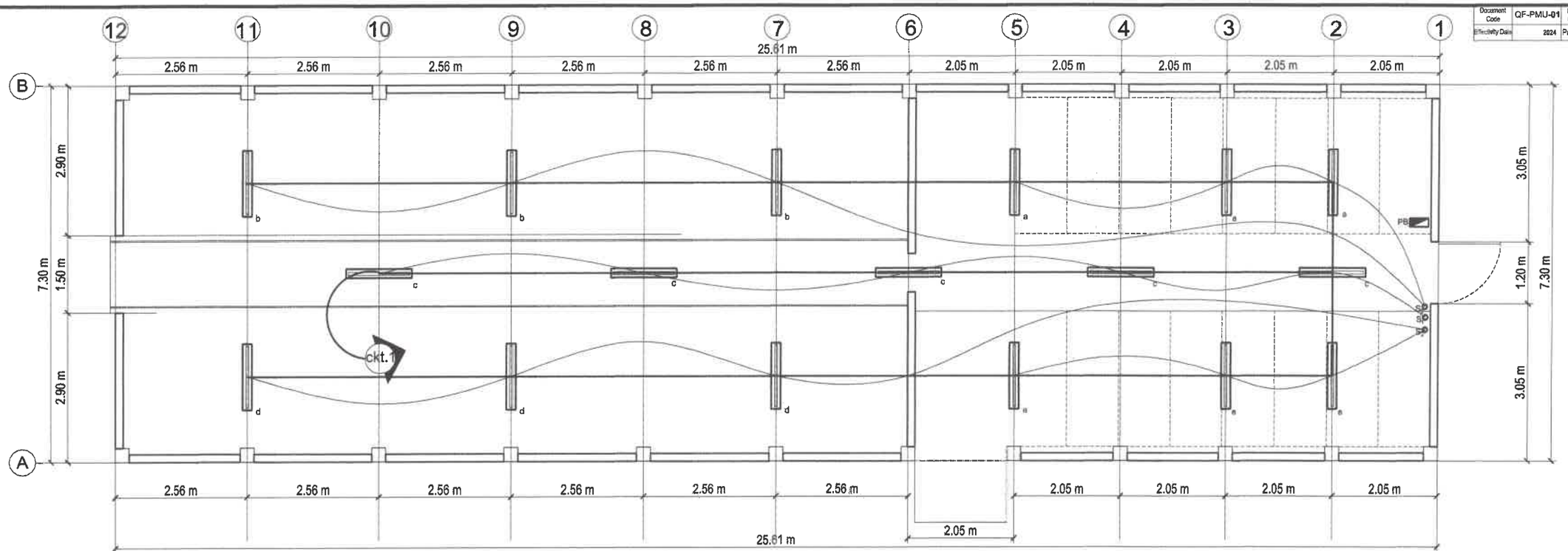
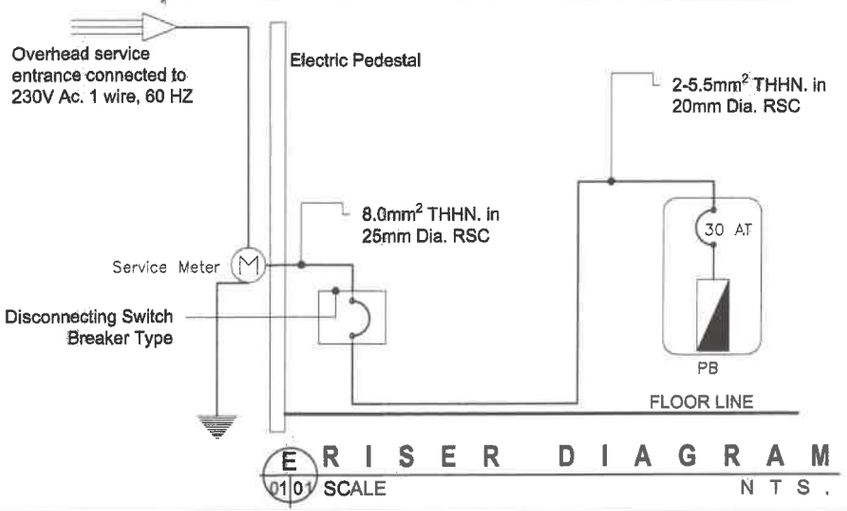
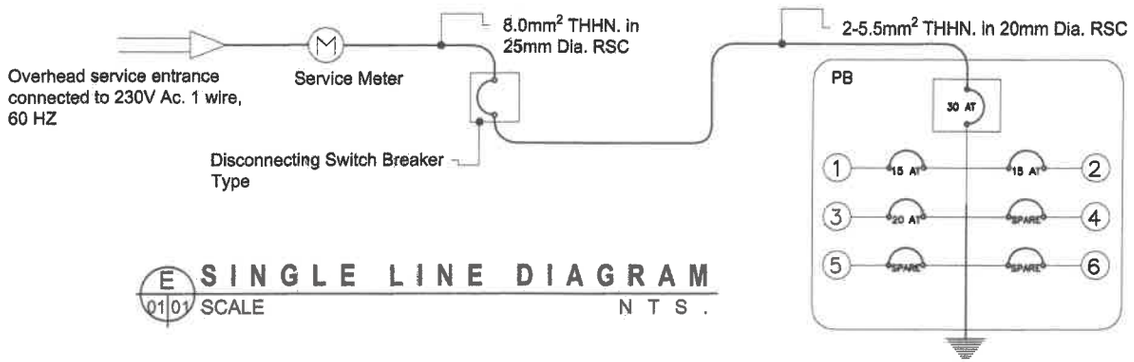


E 01|01 LIGHTING OUTLET LAYOUT
SCALE 1:100MTS.



E 01|01 RISER DIAGRAM
SCALE N T S .



E 01|01 SINGLE LINE DIAGRAM
SCALE N T S .

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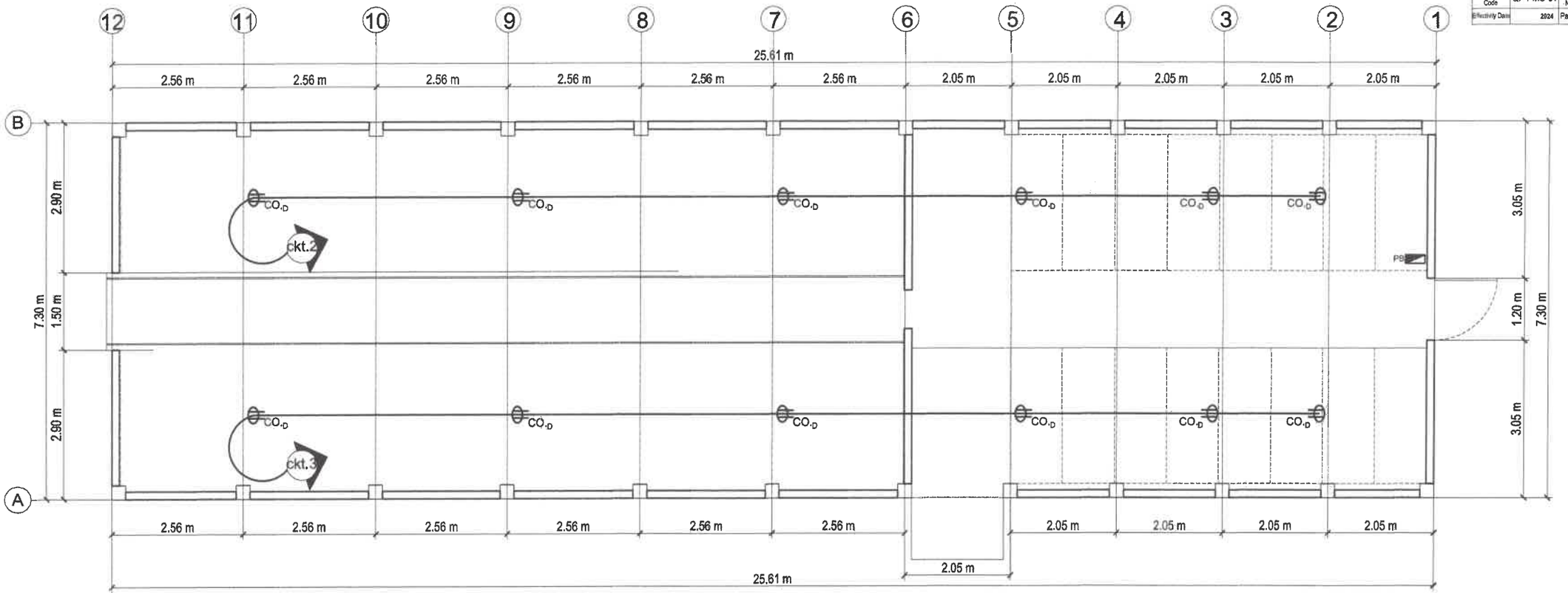

E — CONVENIENCE OUTLET LAYOUT

01|01 SCALE 1:100MTS.

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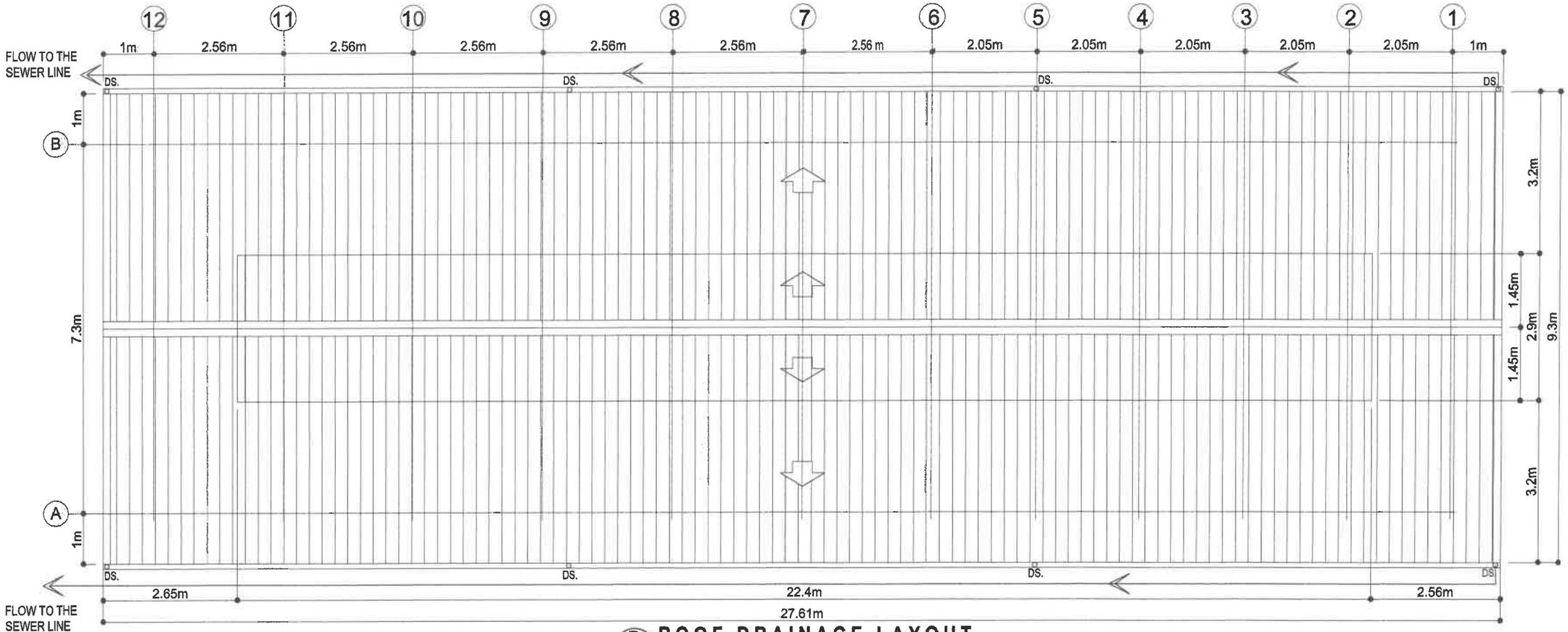

P 01|01 **ROOF DRAINAGE LAYOUT**

SCALE 1:100MTS.

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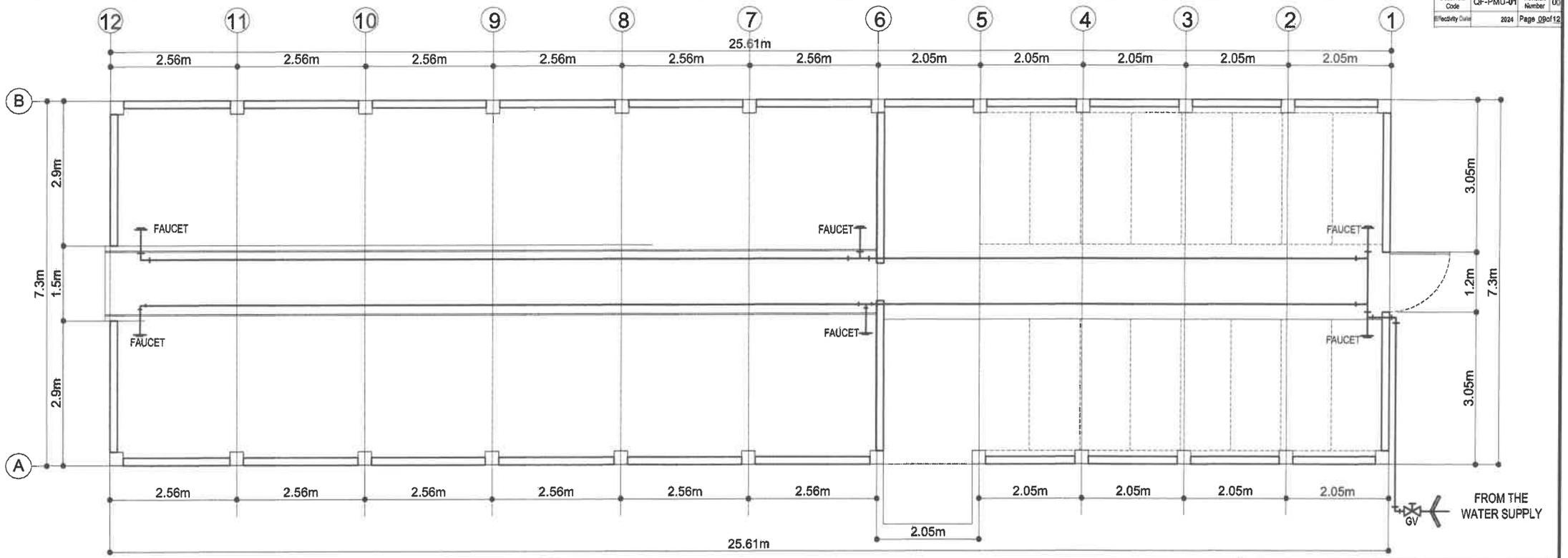

P 01|01 WATER LINE LAYOUT

SCALE 1:100MTS.

GENERAL NOTES:

1. ALL PLUMBING WORKS TO BE DONE AND SIZES OF PIPES TO BE USED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND LOCAL REGULATIONS AND ORDINANCES.
2. ALL PIPES SHALL BE INSTALLED AS INDICATED IN THE WORKING DRAWINGS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE UPON THE APPROVAL OF THE SANITARY ENGINEER.
3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
4. ALL PIPES SHALL BE PROVIDED W/ PROPER HANGER AND SUPPORT.
5. ALL FIXTURES SHALL BE VENTED INDIVIDUALLY AND WATERLINES SHALL BE VALVE BY GROUP.
6. UNLESS OTHERWISE SPECIFIED, ALL PLUMBING FIXTURES SHALL BE PROPERLY VENTED. MAXIMUM DISTANCE OF VENTILATION FROM FIXTURES SHALL BE 1.50m MEASURED ALONG THE LENGTH OF PIPE.
7. ALL PLUMBING FITTINGS SHALL BE ACCESSIBLE FOR MAINTENANCE. PROVIDE MANHOLE IF SUCH INSTALLATIONS ARE INSIDE THE CEILING.
8. ALL CHANGES IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY-FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND. ONE EIGHT WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE BEND COMBINATION MAY BE USED ONLY ON VENT PIPE.
9. NO DOUBLE HUB OR DOUBLE TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL OR WASTE LINES.
10. PROVIDE PIPE SLEEVES AT WALL, COLUMNS OR SLAB TO PROTECT FROM BREAKAGE.
11. ALL EXPOSED PIPES AND FITTINGS IN THE AREAS SHALL BE CHROME PLATED.
12. THE BRAND AND OTHER DETAILED PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH THE SCHEDULE FURNISHED BY THE ARCHITECT.
13. GATE VALVE SHALL BE BRONZE BODY, SOLID WEDGE TYPE, SCREWED OR FLANGE END.
14. USE POLYPROPYLENE RANDOM, TYPE 3, PN20 FOR ALL WATER PIPING SYSTEM.
15. USE uPVC SANITARY PIPING SYSTEM SERIES 1000 FOR 100 Ø AND SMALLER AND GRAVITY SEWER MAIN uPVC PIPING SYSTEM FOR 150 Ø AND BIGGER.
16. ENGINEER-IN-CHARGE TO VERIFY ACTUAL LOCATION AND ELEVATION OF STREET DRAINAGE, STREET SEWER AND STREET WATER MAINS FOR CONNECTION BEFORE CONSTRUCTION.

PLUMBING LEGENDS:	
SYMBOL	DESCRIPTION
GV.	GATE VALVE
FAUCET	FAUCET/ WATER OUTLET
	WATER LINE / PIPE LINE
	FLOW INDICATOR
	PIPE FITTINGS
DS.	DOWN SPOUT

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