

**PHILIPPINE BIDDING DOCUMENTS**

**Procurement of  
INFRASTRUCTURE  
PROJECTS**

Government of the Republic of the Philippines

**“Construction of a Mussel Glycogen Production  
Plant at the UP Tacloban Sta. Elena Campus”**  
(UPTC IB NO. 2024-08)

Sixth Edition  
July 2020

# Preface

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

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

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

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

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

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

typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.

- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

# TABLE OF CONTENTS

<b>GLOSSARY OF .....</b>	<b>5</b>
<b>TERMS, ABBREVIATIONS, AND ACRONYMS.....</b>	<b>5</b>
<b>SECTION I. INVITATION TO BID.....</b>	<b>8</b>
<b>SECTION II. INSTRUCTIONS TO BIDDERS.....</b>	<b>11</b>
1. Scope of Bid.....	12
2. Funding Information.....	12
3. Bidding Requirements .....	12
4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices .....	12
5. Eligible Bidders .....	13
6. Origin of Associated Goods .....	13
7. Subcontracts.....	13
8. Pre-Bid Conference.....	13
9. Clarification and Amendment of Bidding Documents .....	13
10. Documents Comprising the Bid: Eligibility and Technical Components.....	14
11. Documents Comprising the Bid: Financial Component.....	14
12. Alternative Bids.....	14
13. Bid Prices .....	14
14. Bid and Payment Currencies.....	15
15. Bid Security .....	15
16. Sealing and Marking of Bids .....	15
17. Deadline for Submission of Bids .....	15
18. Opening and Preliminary Examination of Bids.....	15
19. Detailed Evaluation and Comparison of Bids .....	16
20. Post Qualification.....	16
21. Signing of the Contract.....	16
<b>SECTION III. BID DATA SHEET .....</b>	<b>17</b>
<b>SECTION IV. GENERAL CONDITIONS OF CONTRACT .....</b>	<b>19</b>
1. Scope of Contract .....	20
2. Sectional Completion of Works.....	20
3. Possession of Site .....	20
4. The Contractor's Obligations .....	20

5.	Performance Security .....	20
6.	Site Investigation Reports .....	21
7.	Warranty .....	21
8.	Liability of the Contractor .....	21
9.	Termination for Other Causes.....	21
10.	Dayworks .....	21
11.	Program of Work .....	22
12.	Instructions, Inspections and Audits .....	22
13.	Advance Payment.....	22
14.	Progress Payments .....	22
15.	Operating and Maintenance Manuals.....	22
<b>SECTION V. SPECIAL CONDITIONS OF CONTRACT .....</b>		<b>23</b>
<b>SECTION VI. SPECIFICATIONS .....</b>		<b>25</b>
<b>SECTION VII. DRAWINGS .....</b>		<b>33</b>
<b>SECTION VIII. BILL OF QUANTITIES .....</b>		<b>58</b>
<b>SECTION IX. CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS .....</b>		<b>61</b>
<b>ANNEX 1 .....</b>		<b>65</b>

# *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*



**UNIVERSITY OF THE PHILIPPINES  
TACLOBAN COLLEGE**

Magsaysay Boulevard cor. Sto. Niño Ext., Tacloban City 6500, Philippines

**INVITATION TO BID FOR**

**“Construction of a Mussel Glycogen Production Plant at the UP  
Tacloban Sta. Elena Campus”  
(UPTC IB NO. 2024-08)**

1. The *University of the Philippines Tacloban College* through the *Fund 164 UP System (UPSA 2024 Income)* intends to apply the sum of *Five Million Pesos Only (₱5,000,000.00)* being the Approved Budget for the Contract (ABC) to payments under the contract for *Construction of a Mussel Glycogen Production Plant at the UP Tacloban Sta. Elena Campus (UPTC IB NO. 2024-08)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *University of the Philippines Tacloban College* now invites bids for the above Procurement Project. Completion of the Works is required *within 180 calendar days from receipt of 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 *University of the Philippines Tacloban College* and inspect the Bidding Documents at the address given below from *Monday to Friday at 8:00 AM to 5:00PM*.
5. A complete set of Bidding Documents may be acquired by interested bidders on *22 August 2024 to 11 September 2024* from given address and website/s below *and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (₱5,000.00)*. If prospective bidders opt to pay online or through bank deposit, they may email a copy of the deposit slip or confirmation slip as proof of payment for the fees. Please see Annex 1 (last page) for bank details and further payment instructions.
6. The *University of the Philippines Tacloban College* will hold a Pre-Bid Conference<sup>1</sup> on *30 August 2024, 10:00 AM*, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before *11 September 2024 at 1:30 PM*. Late bids shall not be accepted.

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

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 *11 September 2024, 1:30 PM* at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. Site inspection is a requirement. Certificate of Site Inspection shall be obtained from the Campus Maintenance and Development Office.
11. The *University of the Philippines Tacloban College* 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.
12. For further information, please refer to:

BAC Secretariat  
UP Tacloban College  
Magsaysay Boulevard, Tacloban City 6500  
bacsecretariat.uptacloban@up.edu.ph  
Telephone Nos. (053) 832-2897

13. You may visit the following websites:

For downloading of Bidding Documents:

<https://notices.philgeps.gov.ph/>  
<https://www.uptacloban.edu.ph/bids-and-awards/>

*22 August 2024*

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**ARVIN L. DE VEYRA**  
BAC Chairperson

## *Section II. Instructions to Bidders*

## 1. Scope of Bid

The Procuring Entity, *University of the Philippines Tacloban College* invites Bids for the *Construction of a Mussel Glycogen Production Plant at the UP Tacloban Sta. Elena Campus* with Project Identification Number *UPTC IB NO. 2024-08*.

*[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]*

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

## 2. Funding Information

2.1. The GOP through the source of funding as indicated below for *FY 2021* in the amount of *Five Million Pesos Only (₱5,000,000.00)*.

2.2. The source of funding is:

NGA, the General Appropriations Act or Special Appropriations.

## 3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

## 4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

## 5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

## 6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

## 7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

Subcontracting is not allowed.

## 8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address as indicated in paragraph 6 of the **IB**.

## 9. Clarification and Amendment of Bidding Documents

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

## 10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of Joint Ventures, a special PCAB License and registration for the type and cost of the contract for this Project, shall be required. 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 *120 days from the date of 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 copy of the first and second components of its Bid.

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

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

#### **17. Deadline for Submission of Bids**

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

# Bid Data Sheet

ITB Clause																					
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <i>Building construction projects</i>																				
7.1	<i>Subcontracting is not allowed.</i>																				
10.3	The bidder must have a valid PCAB license with at least Small B category.																				
10.4	The key personnel must meet the required minimum years of experience set below:  <table style="margin-left: auto; margin-right: auto; border: none;"> <thead> <tr> <th style="text-align: center;">Key Personnel</th> <th style="text-align: center;">Relevant Experience</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Architect or Engineer</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td style="text-align: center;">Safety officer</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td style="text-align: center;">Construction foreman</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td style="text-align: center;">Skilled mason</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td style="text-align: center;">Skilled carpenter</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td style="text-align: center;">Skilled plumber</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td style="text-align: center;">Skilled electrician</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td style="text-align: center;">Skilled painter</td> <td style="text-align: center;">1 year</td> </tr> <tr> <td style="text-align: center;">Laborer</td> <td style="text-align: center;">none</td> </tr> </tbody> </table>	Key Personnel	Relevant Experience	Architect or Engineer	1 year	Safety officer	1 year	Construction foreman	1 year	Skilled mason	1 year	Skilled carpenter	1 year	Skilled plumber	1 year	Skilled electrician	1 year	Skilled painter	1 year	Laborer	none
Key Personnel	Relevant Experience																				
Architect or Engineer	1 year																				
Safety officer	1 year																				
Construction foreman	1 year																				
Skilled mason	1 year																				
Skilled carpenter	1 year																				
Skilled plumber	1 year																				
Skilled electrician	1 year																				
Skilled painter	1 year																				
Laborer	none																				
10.5	The minimum major equipment requirements are the following:  1 bagger mixer 1 backhoe (excavator)																				
12	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: <ul style="list-style-type: none"> <li>a. The amount of not less than ₱100,000.00, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</li> <li>b. The amount of not less than ₱250,000.00, if bid security is in Surety Bond.</li> </ul>																				
16	Each Bidder shall submit one (1) original copy of the first and second components of its Bid. The Procuring Entity requests for two (2) additional hard copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.																				
19.2	Partial bid is not allowed																				
20	No further instructions																				
21	Detailed Construction schedule (Gantt chart) Manpower schedule Construction safety and health program approved by the DOLE																				

## ***Section IV. General 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*



# Special Conditions of Contract

GCC Clause	
2	Not applicable
4.1	Upon issuance of Notice to Proceed
6	The site investigation reports are: <i>none</i>
7.2	<i>Not applicable</i>
10	No dayworks are applicable to the contract.
11.1	No further instructions
11.2	No further instructions
13	The amount of the advance payment <i>shall not exceed 15% of the total contract price and schedule of payment.</i>
14	The contractor shall collect payment of progress billings based on the percentage work accomplished together with the submission of all the required documents, subject for review, and evaluation by the UPTC within a reasonable time.
15.1	The following complete set of “as built” drawings are required prior to issuance of Certificate of Completion: Architectural drawings Structural drawings Electrical drawings Plumbing drawings These drawings must be provided in both soft and hard copies: Soft copy must be in PDF format, A3 size Hard copy must be signed and sealed, A3 size
15.2	Release of Final Payment is subject to the submission of the “as built” drawings to be certified by UPTC’s authorized representative/s.

## *Section VI. Specifications*

## Specifications:

### A. Earthworks

#### 1. Site clearing, layout and staking

- The building site shall be leveled according to the plans and cleared of rubbish, roots, and other perishable and objectionable matters to a suitable subgrade.
- All such unsuitable materials shall be removed from the building site and spread uniformly over the areas adjacent to the proposed building, or otherwise disposed of as maybe directed by the in-charge of the construction or end user.
- The building lines shall be staked out and all lines and grades shown in the drawing established before any execution is started. Batterboards and reference marks shall be erected at such places where it will not be disturbed during the execution of the building.

#### 2. Excavation and back fill

- All excavation shall be made to grade indicated in the drawings. Where the building site is covered with any kind of fill, the excavation for footings should be made deeper until the stratum for safe bearing capacity of the soil is reached.
- Whenever water is encountered in any excavation, the same shall be removed by pailing or pumping, care being taken that the surrounding earth is not disturbed.
- Provide pit run gravel bed in footings.
- After concrete for foundations is hard enough to withstand pressure resulting from fills, the materials removed from excavations shall be used for backfill around them.
- Backfill and fills shall be placed in layers not exceeding 150mm in thickness, and each layer shall be thoroughly compacted by wetting, tamping and rolling.
- Gravel bedding of every structural members, footing, column, slab and etc. to cover of any particles that can cause weak to structure.

### B. Concrete Works

- The work under this project shall include the furnishing of al materials, labor, tools, equipment and other facilities and construction necessary as shown on the plans and in accordance with the specifications.
- All concrete works shall be mixed thoroughly until there is a uniform distribution of the cement and aggregates, and should be deposited as nearly as practicable in its final position, care being taken to avoid segregation of the aggregates.
- Water to be used for mixing shall be clean and free from injurious amount of oil, acids, alkalis, salt and other organic materials.



- This work shall include the furnishing, fabricating, hauling, erecting, welding and painting of structural metals as shown in the plans.
- All reinforcing steel bars shall be of the sizes and numbers indicated on the drawings, deformed, complying with AS TM specifications for such bars.
- At the time concrete is placed, steel reinforcement shall be free from mud, oil, or other non-metallic coating that adversely affect bending capacity.
- All steel reinforcing bars shall be accurately placed and secured against displacement using Gauge No. 16 galvanized iron wire ties for each bar intersection.
- The steel reinforcing bars indicated for footings, columns, tie beams, slabs, beams, girders and other concrete members shall all conform to the number, size and spacing as indicated in the drawings.
- Vertical bars of columns shall have at 90 degrees bend and properly anchored at the supporting footing.
- The vertical reinforcement of CHB and concrete decorative blocks shall extend throughout the entire height of the wall and shall end with standard hook.
- All horizontal reinforcement of CHB and concrete decorative blocks shall extend into the adjoining concrete columns and properly anchored.
- No metal reinforcement shall be installed in place unless it is free from rust, scale or other coatings, which will destroy or reduce the bond with concrete.
- Portions of composite steel structures, shall be constructed in reasonably close conformity with the lines, grades, and dimensions shown on the plans or established by the Engineer.
- This work shall include the furnishing, fabricating, hauling, erecting, welding and painting structural metals called for in the special provisions or shown in the plans. Structural metals will include structural steel, rivets, welding, special and alloy steels, steel forging and casting and iron casting. This work will also include any incidental metal construction not otherwise provided for, all in accordance with these specifications, plans and special provisions.
- All metal works such as roof framings and other metal works shall receive one (1) coat of metal primer.
- Roofing shall be covered with quality corrugated sheets, prepainted long span roof gauge .50mm as shown in the plans with 1.5mm x 2" x 3" C purlins. The straps shall each be at least 25mm wide with corners chipped off at the riveting ends.
- Install .5mm insulation foam supported with tie wire # g.16. before roofing sheet installation.
- Ridge rolls, fascia cover, gutters and end flashing shall be those compatible with the quality based roofing sheets, pre-painted longspan. These shall be riveted to the roofing system in addition to the rivets engaging the GI straps in securing roofing sheets to the system.

#### D. Ceiling works

- Areas with ceiling are the entry porch, office, packaging area and 2 comfort rooms only.
- Use double metal furring and carrying channel for ceiling joist with 3'16" x 1" x 1" Angle bar as wall angle attached to concrete walls and spaced every 4 feet on center both ways.
- Use 3.5mm fiber cement board for ceiling boards, riveted.

#### E. Electrical works

- All electrical works and installation herein shall conform with the latest approved edition of the Philippine Electrical Code (PEC) Rules and Regulations of the Local and National Authorities concerned in the enforcement of Electrical laws and ordinances.
- Electrical services requirement shall be 230Volts, 60 Hz. No branch circuit shall have a load or more than 80% of its rating.
- All materials to be used shall be new and approved type for both purpose intended. All wires shall be insulated for 600Volts and shall be inside uPVC pipes.
- Workmanship shall be equal to the best standard practice recognized and adopted for this trade.
- All electrical works and installation herein shall be done under the direct supervision of a duly licensed electrical engineer or his authorized representative.
- Grounding and bonding system shall be provided to all lighting and power circuit as per Philippine Electrical Code Requirement.
- All wire shall be copper and thermoplastic insulated type "THHN/THWN" unless otherwise indicated in the plan.
- The minimum size of wire for power and lighting circuit homerun shall be 3.5mm and insulated for 600Volts.
- All panel boards shall be provided with identifications and load directory.
- Smallest raceway shall be 15mm dia. Trade / nominal size
- Use 1.2mm x 2" x 6" C Purlins for the fluorescent holder as indicated in the drawings.
- Mounting height shall be as follows:

*Panel board	1.40 meters above finish floor line
*Wall switches	1.40 meters above finish floor line
*Convenience outlet	0.30 meters above finish floor line
- All electrical outlets shall be ground fault circuit interrupter (GFCI) universal outlet with ground.

- Provision of concrete pedestal as electrical service entrance pole. Electrical lines from the service entrance shall be underground using 40mm electrical pipe.

#### F. Plumbing works

- All works shall be in strict accordance with these specifications and of the other methods as prescribed by the National Building Code of the Philippines, Code
- Code on Sanitation of the Philippines, and the ordinances of each concerned City or Municipality.
- The Contractor shall furnish all necessary materials, tools, equipment, apparatus and labor required for the installation works.
- All work shall have accomplished in a neat workmanship. Installation must be new making free from leaks, holes, scratches, impurities and equipment properly calibrated.
- All work shall be made according to plans and specifications as shown in the drawings.

##### \* Pipes and fittings

Cold waterlines- shall be S-Blue pipe (PNS 65 series 8)

Sewer lines - shall be polyvinyl chloride (PVC) pipe series 1000, PNS 1950/ASTM 02729

Downspout - shall be polyvinyl chloride (PVC) pipe series 1000, PNS 1950/ASTM 02729

Drainage lines- shall be polyvinyl chloride (PVC) pipe series 1000, PNS/ASTM 02729

##### \* Valves

Gate valve - shall be bronze gate valve PN20 or approved equivalent

Check valve- shall be bronze check valve PN20 or approved equivalent

##### \* Fixtures

Water closet set with fittings and accessories - HCG water closet lever type

Pantry sink - Stainless steel single tub

##### \*Faucet

Hose bibb - 25mm dia. Standard hose connection, male tapered threads, polished chromium plates with lock for receiving area and wash area.

Gooseneck sink faucet - Stainless steel for office

- Use Voda septic tank STVW1221-2 2000L 5mm. 1 (one) for septic vault and 1 (one) for water drainage disposal.
- The piping shall be extended to all fixtures, outlets and equipment from the gate valves installed in the branch near the riser. Unions shall be provided for disconnection. All pipes shall be cut accurately to measurements and shall be worked into place without springing or facing. Caring shall be taken so as not to weaken the structural portions of the building.

#### G. Painting works

- All painting works for this project, shall be done with the use of Boysen paint products.
- The painting contractor shall store his materials in one place in the building to be kept neat and clean, care being taken in the storage of paints, oils, etc. to prevent danger of fire.
- Oily rags shall be kept in metal containers and shall be removed from the building every end of the working day.
- Before the painting done all surfaces shall be cleaned, smoothed and free from dust, dirt, mortar, rust and other foreign substances. All parts where paint remover has been used shall be wasted off with paint or lacquer thinner. All paints shall be spread evenly and carefully.

#### H. Tiling works (comfort rooms)

- Use .30m x .60m. Wall tiles smooth finish for walls @ 1.80m from the finish floor line.
- Use .60m. X .60m. Floor tiles, unglazed/ matted finish for flooring.
- Tile color shall be approved by the end user.

#### I. Doors and windows (see attached schedule of doors and windows)

- All door shall be painted with complete door accessories and locks

#### J. General requirements

- The Contractor shall secure from the government agencies all necessary licenses and permits (i.e. building permit) including the professional fees for signature and seal of all documents needed in the processing of building permit.
- Cleanliness shall be maintained at all times within the job site and its immediate premises.
- If errors or omissions appear in the drawings, specifications or other documents, these shall be referred to the designing architect/project engineer.
- Materials deemed necessary to complete the work but not specifically mentioned in the specification, working drawings, or in the Contract Document, shall be supplied and installed by the Contractor without extra cost to the Owner. Such material shall be of



the highest quality available and install and applied in a workmanlike manner at prescribed or appropriate locations.

- Materials specifically mentioned in this summary shall be installed following efficient and sound engineering and construction practice, and especially as per Manufacturer's application and installation specification.
- The Contractor shall clean the site and disposed waste after the completion of the project.

- Project Billboard

Design of project billboard as per requirement issued by the office of the building official and shall be installed in the strategic location within the project site and noticeable by the general public.

- Construction safety and health

Shall include the labor cost of first aider and material cost that use of construction, such as safety shoes, safety helmet, first aid kit/meds, and specialized PPE in the duration of building project.

- Temporary facilities

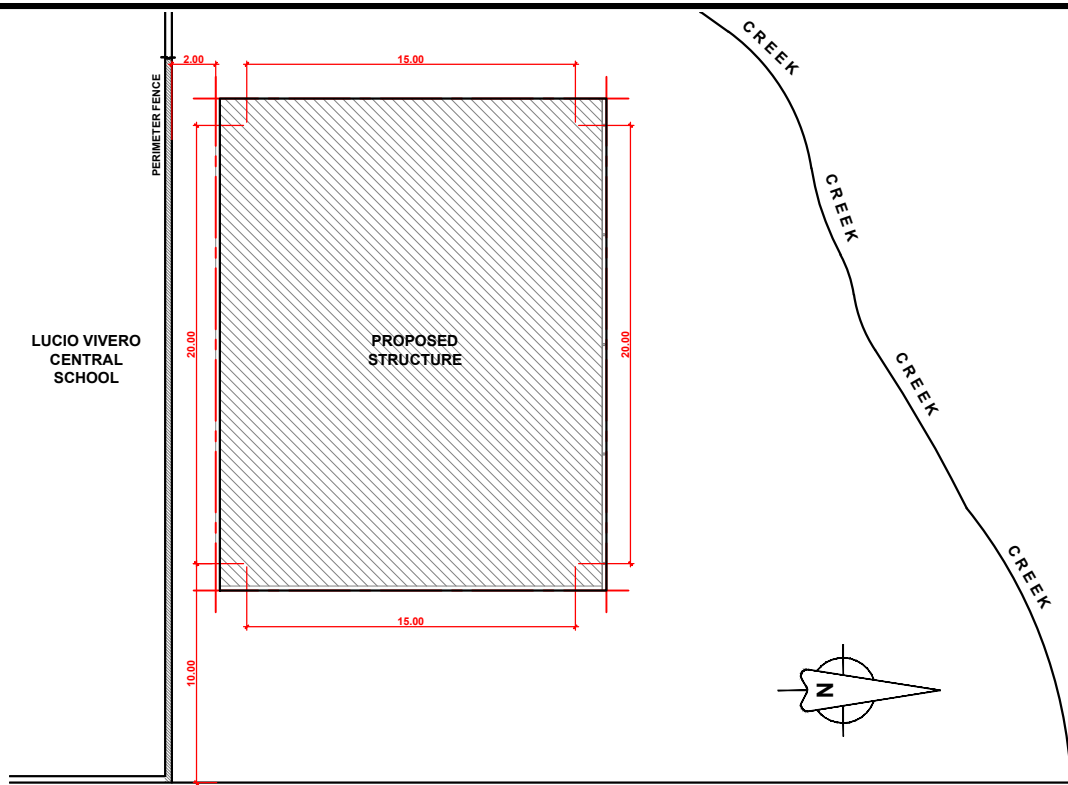
This work consists the entire requirements for the temporary facilities, security and protection facilities for engineers, workers to include utilities and consumables for living quarters miscellaneous supplies.

#### K. Mobilization/Demobilization

- Contractor shall submit a letter to the Administration of work commencement or request to mobilized for proper guidance with regards to security and other matter during work execution.
- Upon submission of the letter request, the Contractor shall also include the lists of working personnel who will be in the construction premises.
- Other construction concern shall be in coordination with the Campus Development and Maintenance Office.

## *Section VII. Drawings*

Sheet No.	Content
A 1/6	Table of contents Vicinity map Site development plan Perspective
A 2/6	Ground floor plan
A 3/6	Roof layout plan
A 4/6	Front elevation Right side elevation
A 5/6	Left side elevation Rear elevation
A 6/6	Schedule of windows Schedule of doors
S 1/9	Foundation plan
S 2/9	RCB-1 reinforced concrete beam layout
S 3/9	Reinforced roof beam layout
S 4/9	Roof framing layout
S 5/9	Rafter roof framing
S 6/9	C1-F1 detail C2-F2 detail Wall footing details
S 7/9	RCB-1 concrete beam detail Concrete roof beam detail
S 8/9	Full truss detail Sloping top chord detail Canopy steel truss detail
S 9/9	Typical half truss detail Typical rafter detail
E 1/5	Lighting outlet plan
E 2/5	Convenience outlet plan
E 3/5	Emergency light and exhaust fan layout
E 4/5	PB1 schedule of loads
E 5/5	Single line diagram Electrical legend Electrical general notes
P 1/4	Waste water layout plan
P 2/4	Fresh water layout plan
P 3/4	Downspout connection layout plan
P 4/4	Pipe joint details Standard pipe fittings



TO TACLOBAN CITY — NATIONAL ROAD — TO BABATNGON LEYTE

**SITE DEVELOPMENT PLAN**  
A-A SCALE: NOT DRAWN TO SCALE



**VICINITY MAP**  
A-B SCALE: N D T S

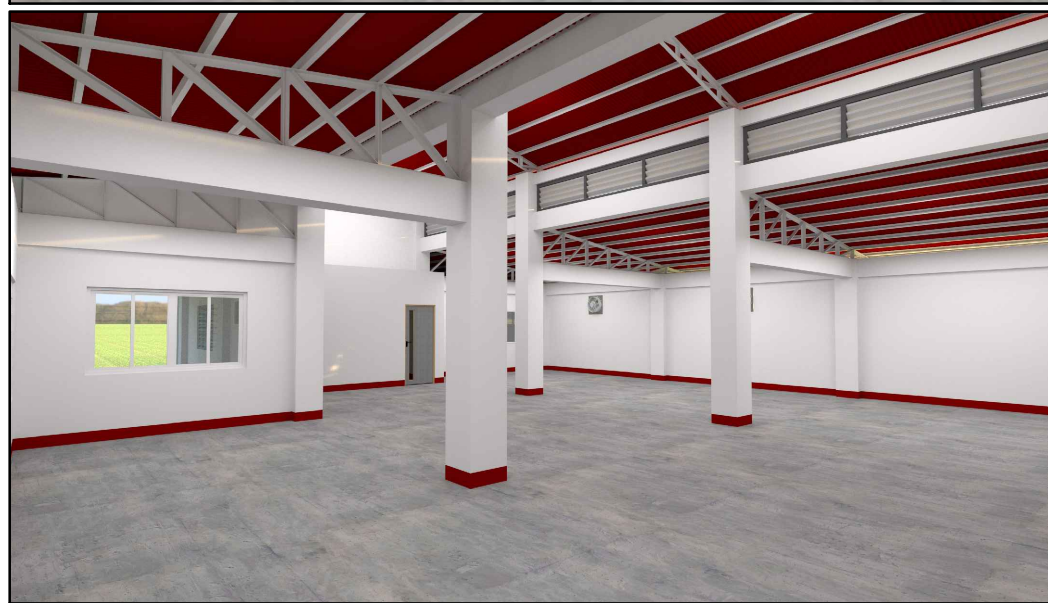

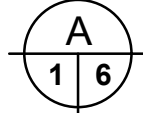
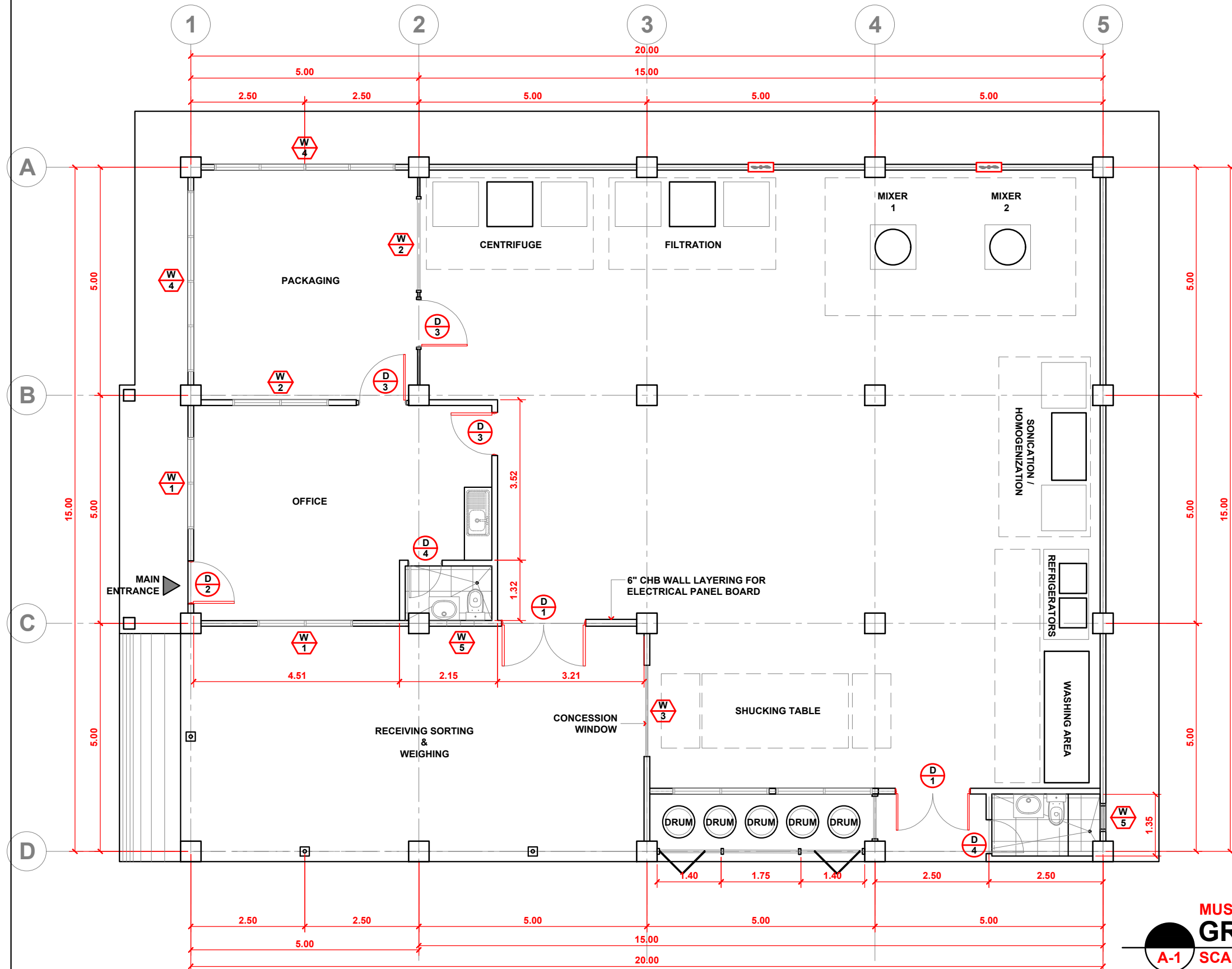



TABLE OF CONTENT:		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE BUILDING OFFICIALS
<b>ARCHITECTURAL</b>		CITY / DISTRICT / MUNICIPALITY
A-1	<ul style="list-style-type: none"> <li>TABLE OF CONTENTS</li> <li>VICINITY MAP</li> <li>SITE DEVELOPMENT PLAN</li> <li>PERSPECTIVE</li> </ul>	LAND USE & ZONING
A-2	<ul style="list-style-type: none"> <li>GROUND FLOOR PLAN</li> </ul>	
A-3	<ul style="list-style-type: none"> <li>ROOF LAYOUT PLAN</li> </ul>	
A-4	<ul style="list-style-type: none"> <li>FRONT ELEVATION</li> <li>RIGHT SIDE ELEVATION</li> </ul>	
A-5	<ul style="list-style-type: none"> <li>LEFT SIDE ELEVATION</li> <li>REAR ELEVATION</li> </ul>	
A-6	<ul style="list-style-type: none"> <li>SCHEDULE OF WINDOWS</li> <li>SCHEDULE OF DOORS</li> </ul>	
<b>STRUCTURAL</b>		LINE & GRADE
S-1	<ul style="list-style-type: none"> <li>FOUNDATION PLAN</li> </ul>	ARCHITECTURAL
S-2	<ul style="list-style-type: none"> <li>RCB-1 REINFORCED CONCRETE BEAM LAYOUT</li> </ul>	
S-3	<ul style="list-style-type: none"> <li>REINFORCED ROOF BEAM LAYOUT</li> </ul>	
S-4	<ul style="list-style-type: none"> <li>ROOF FRAMING LAYOUT PLAN</li> </ul>	
S-5	<ul style="list-style-type: none"> <li>RAFTER ROOF FRAMING LAYOUT PLAN</li> </ul>	
S-6	<ul style="list-style-type: none"> <li>C1-F1 DETAIL</li> <li>C2-F2 DETAIL</li> <li>WALL FOOTING DETAILS</li> </ul>	
S-7	<ul style="list-style-type: none"> <li>RCB-1 CONCRETE BEAM DETAIL</li> <li>CONCRETE ROOF BEAM DETAIL</li> </ul>	
S-8	<ul style="list-style-type: none"> <li>FULL TRUSS DETAIL</li> <li>SLOPING TOP CHORD DETAIL</li> <li>CANOPY STEEL TRUSS DET.</li> </ul>	
S-9	<ul style="list-style-type: none"> <li>TYPICAL HALF TRUSS DETAIL</li> <li>TYPICAL RAFTER DETAIL</li> </ul>	
<b>ELECTRICAL</b>		STRUCTURAL
E-1	<ul style="list-style-type: none"> <li>LIGHTING OUTLET PLAN</li> </ul>	ELECTRICAL
E-2	<ul style="list-style-type: none"> <li>CONVENIENCE OUTLET PLAN</li> </ul>	
E-3	<ul style="list-style-type: none"> <li>EMERGENCY LIGHT AND EXHAUST FAN LAYOUT</li> </ul>	
E-4	<ul style="list-style-type: none"> <li>PB1 SCHEDULE OF LOADS</li> </ul>	
E-5	<ul style="list-style-type: none"> <li>SINGLE LINE DIAGRAM</li> <li>ELECTRICAL LEGEND</li> <li>ELECTRICAL GENERAL NOTES</li> </ul>	
<b>PLUMBING</b>		SANITARY
P-1	<ul style="list-style-type: none"> <li>WASTE WATER LAYOUT PLAN</li> </ul>	MECHANICAL
P-2	<ul style="list-style-type: none"> <li>FRESH WATER LAYOUT PLAN</li> </ul>	
P-3	<ul style="list-style-type: none"> <li>DOWNSPOUT CONNECTION LAYOUT PLAN</li> </ul>	
P-4	<ul style="list-style-type: none"> <li>PIPE JOINT DETAILS</li> <li>STANDARD PIPE FITTINGS</li> </ul>	

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION		DR. PATRICIA B. ARINTO UPTC - DEAN		<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	SHEET NO. : 
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PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:								
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY								

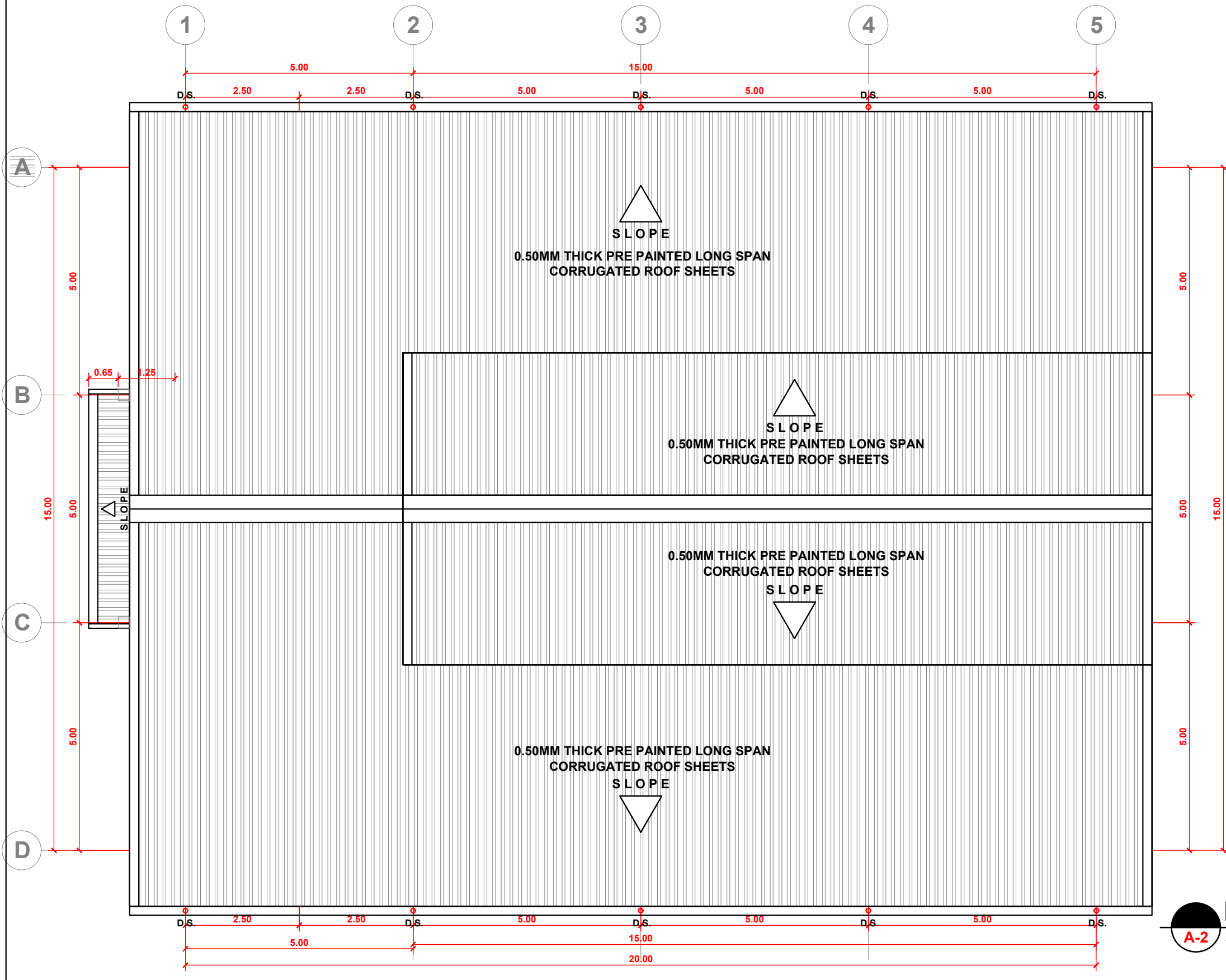
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**MUSSEL GLYCOGEN PRODUCTION PLANT**  
**GROUND FLOOR PLAN**  
 A-1 SCALE: 1 : 80 MTS.

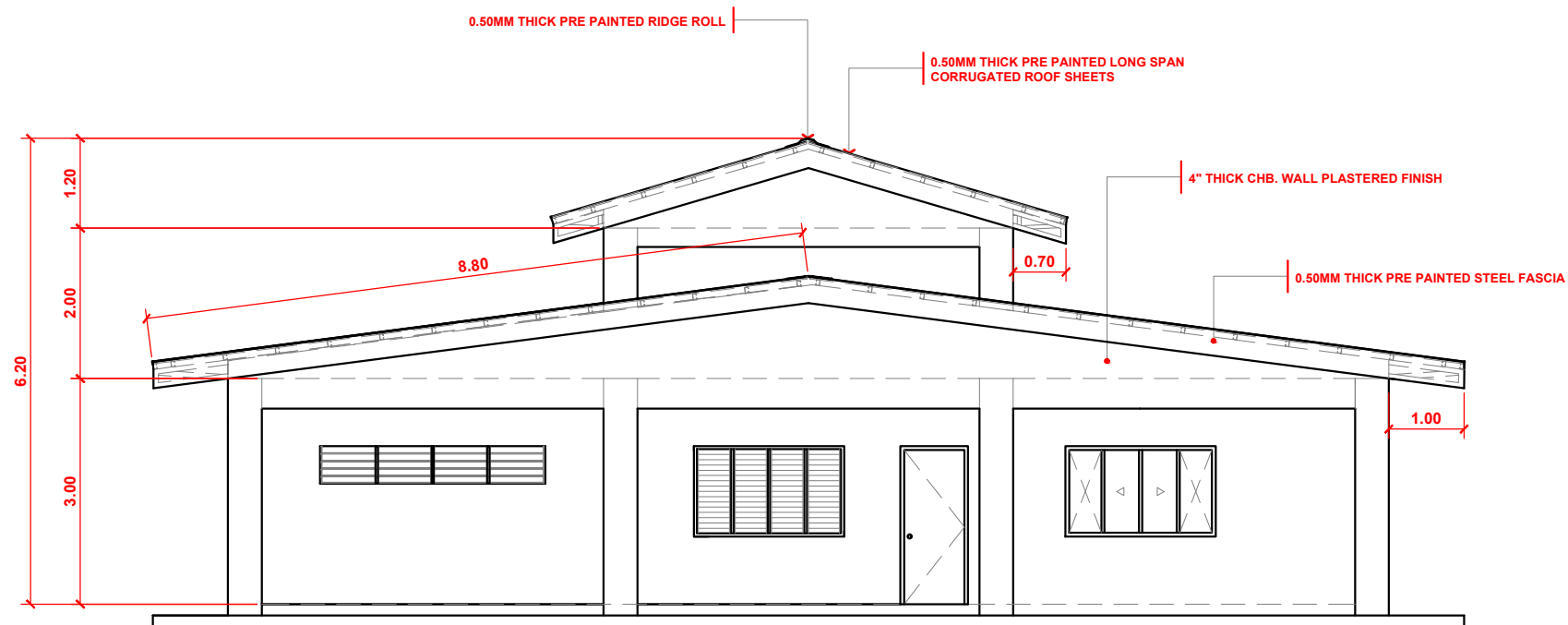
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 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		<b>PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT</b>		PROF. JOHN PAUL T. YUSIONG <small>DNSM DIVISION CHAIR</small>		PROF. ARVIN DE VEYRA <small>ASSOCIATE DEAN FOR ADMINISTRATION</small>	DR. PATRICIA B. ARINTO <small>UPTC - DEAN</small>	<input type="checkbox"/> APPROVED	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">A</div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>2</span> <span>6</span> </div> </div> REVISION
								<input type="checkbox"/> APPROVED AS NOTED	
PREPARED BY: <b>MICHAEL Y. ABALOS</b> <small>DRAFTSMAN</small>		CHECKED BY: <b>ROAN S. ABRAJANO</b> <small>CMGF</small>	RECOMMENDED BY: <b>TELESFORO S. SALES</b> <small>CDMO HEAD</small>	LOCATION: <b>UP STA ELENA, TACLOBAN CITY</b>				<input type="checkbox"/> FOR REVISION	00

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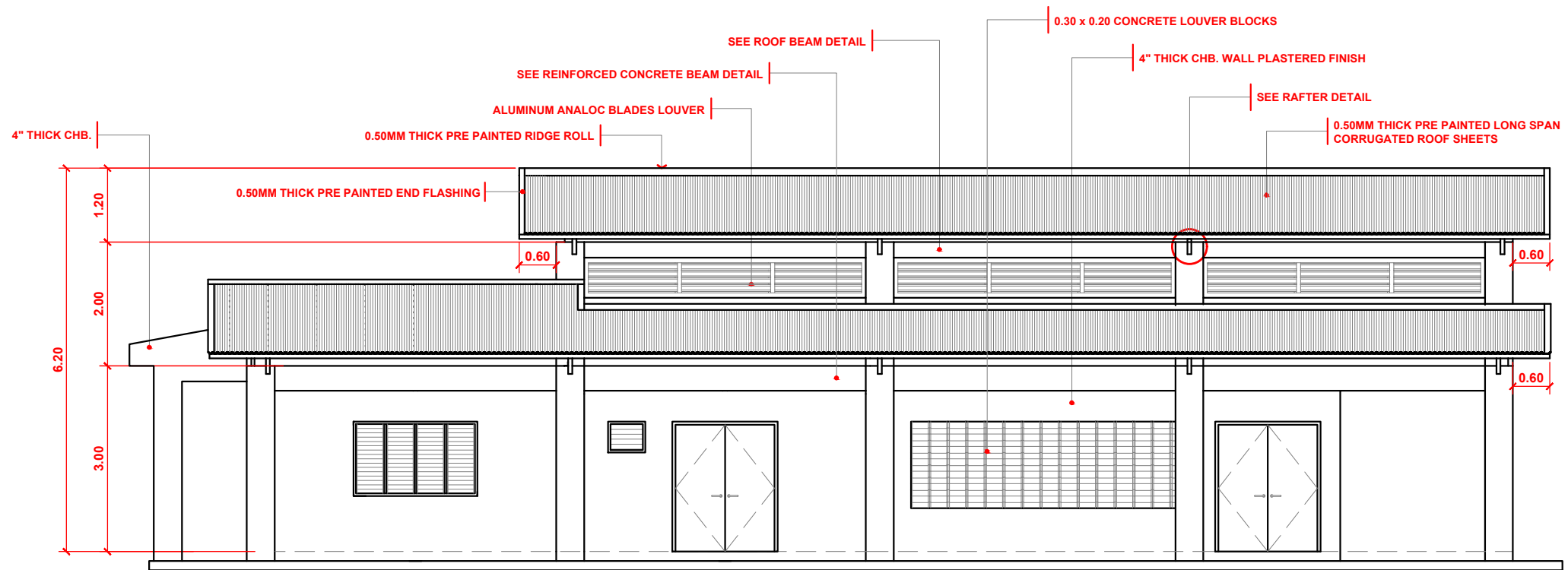


**ROOF LAYOUT PLAN**  
**A-2** SCALE: **1 : 100** MTS

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 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG <small>DNSM DIVISION CHAIR</small>		PROF. ARVIN DE VEYRA <small>ASSOCIATE DEAN FOR ADMINISTRATION</small>	DR. PATRICIA B. ARINTO <small>UPTC - DEAN</small>	<input type="checkbox"/> APPROVED	A 3   6 REVISION
								PREPARED BY: MICHAEL Y. ABALOS <small>DRAFTSMAN</small>	



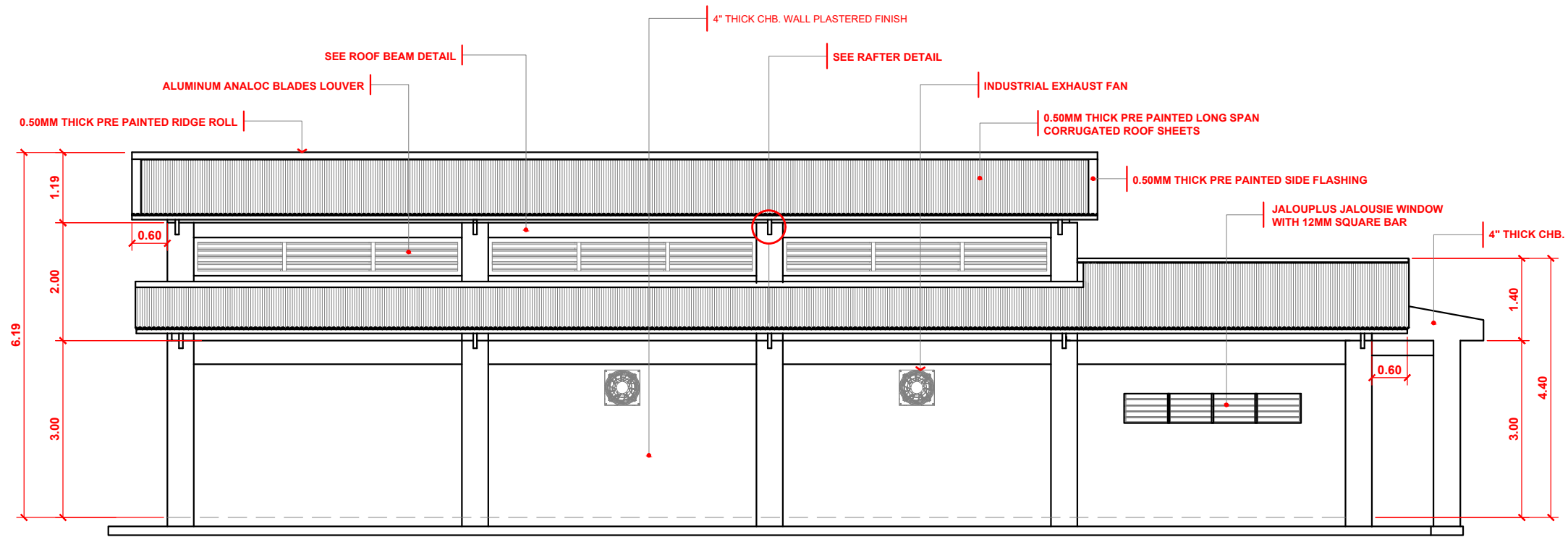
**FRONT ELEVATION**  
 A-3 SCALE: 1 : 100 MTS



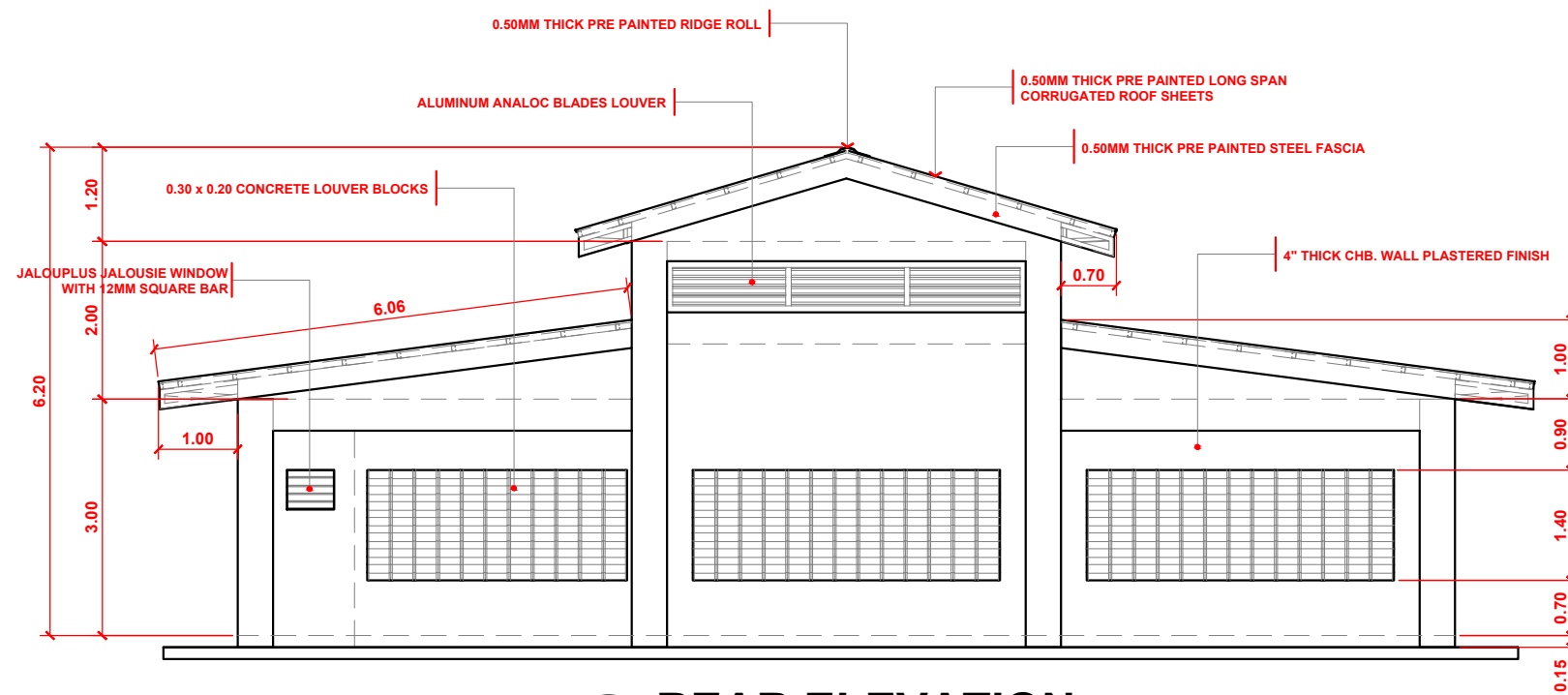
**RIGHT SIDE ELEVATION**  
 A-4 SCALE: 1 : 100 MTS

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :					
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION	DR. PATRICIA B. ARINTO UPTC - DEAN	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<table border="1"> <tr><td align="center">A</td></tr> <tr><td align="center">4   6</td></tr> <tr><td align="center">REVISION</td></tr> <tr><td align="center">00</td></tr> </table>	A	4   6	REVISION	00
A													
4   6													
REVISION													
00													
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:										
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY										




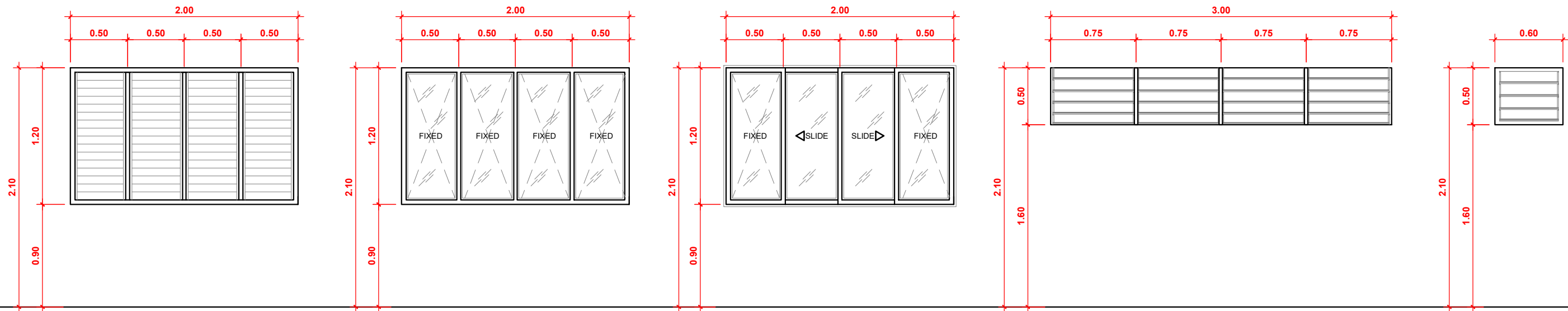


**LEFT SIDE ELEVATION**  
**A-5 SCALE: 1 : 100 MTS**



**REAR ELEVATION**  
**A-6 SCALE: 1 : 100 MTS**

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		<b>PROPOSED MUSSEL GLYCOGEN          PRODUCTION PLANT</b>		PROF. JOHN PAUL T. YUSIONG <small>DNSM DIVISION CHAIR</small>		PROF. ARVIN DE VEYRA <small>ASSOCIATE DEAN FOR ADMINISTRATION</small>	DR. PATRICIA B. ARINTO <small>UPTC - DEAN</small>	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <span style="font-size: 12px; margin: 0 5px;">A</span> </div>
									<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <span style="font-size: 12px; margin: 0 5px;">5   6</span> </div>
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:					REVISION	
MICHAEL Y. ABALOS <small>DRAFTSMAN</small>	ROAN S. ABRAJANO <small>CMGF</small>	TELESFORO S. SALES <small>CDMO HEAD</small>	UP STA ELENA, TACLOBAN CITY					00	



**W 1** 4 - PANELS JALOUPLUS FRAMED JALOUSIE WINDOW WITH SAFETY GRILLS  
SET: 2 SETS

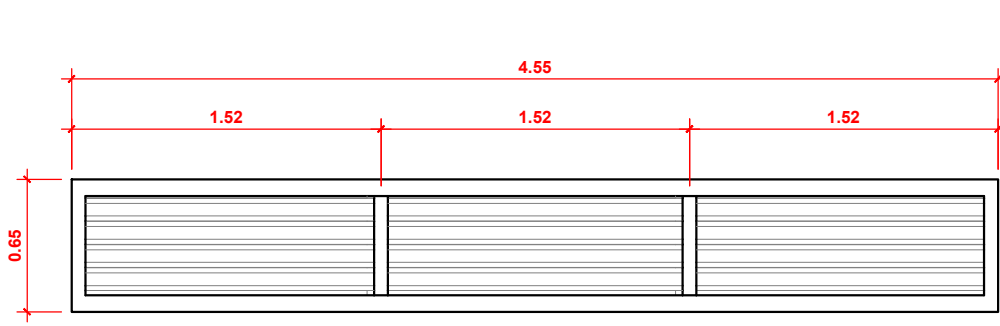
**W 2** 4 - PANELS ALUMINUM FRAMED FIXED 1/4" THICK CLEAR GLASS WINDOW  
SET: 2 SETS

**W 3** 4 - PANELS ALUMINUM FRAMED WITH TWO CENTER SLIDING PANELS ON 1/4" THK. GLASS  
SET: 1 SETS

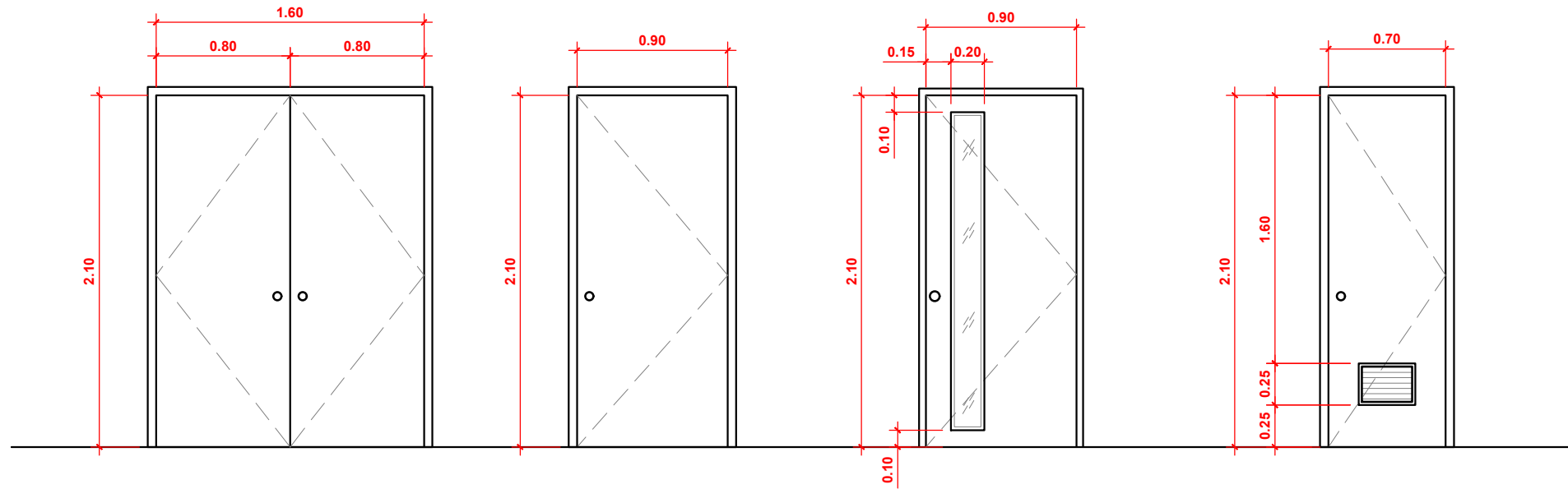
**W 4** 4 - PANELS JALOUPLUS FRAMED JALOUSIE WINDOW WITH SAFETY GRILLS  
SET: 2 SETS

**W 5** SINGLE PANEL JALOUPLUS FRAMED JALOUSIE WINDOW WITH SAFETY GRILLS  
SET: 2 SETS

**SCHEDULE OF WINDOWS**  
A-7 SCALE: 1 : 25 MTS



**W 6** 3 - PANELS ALUMINUM FRAMED WITH ALUMINUM LOUVER BLADES  
SET: 6 SETS




**D 1** SOLID WOOD PANEL DOUBLE DOOR WITH COMPLETE ACCESSORIES - SWING DOOR  
SET: 2 SETS

**D 2** SOLID WOOD PANEL DOOR WITH COMPLETE ACCESSORIES - SWING DOOR  
SET: 1 SET

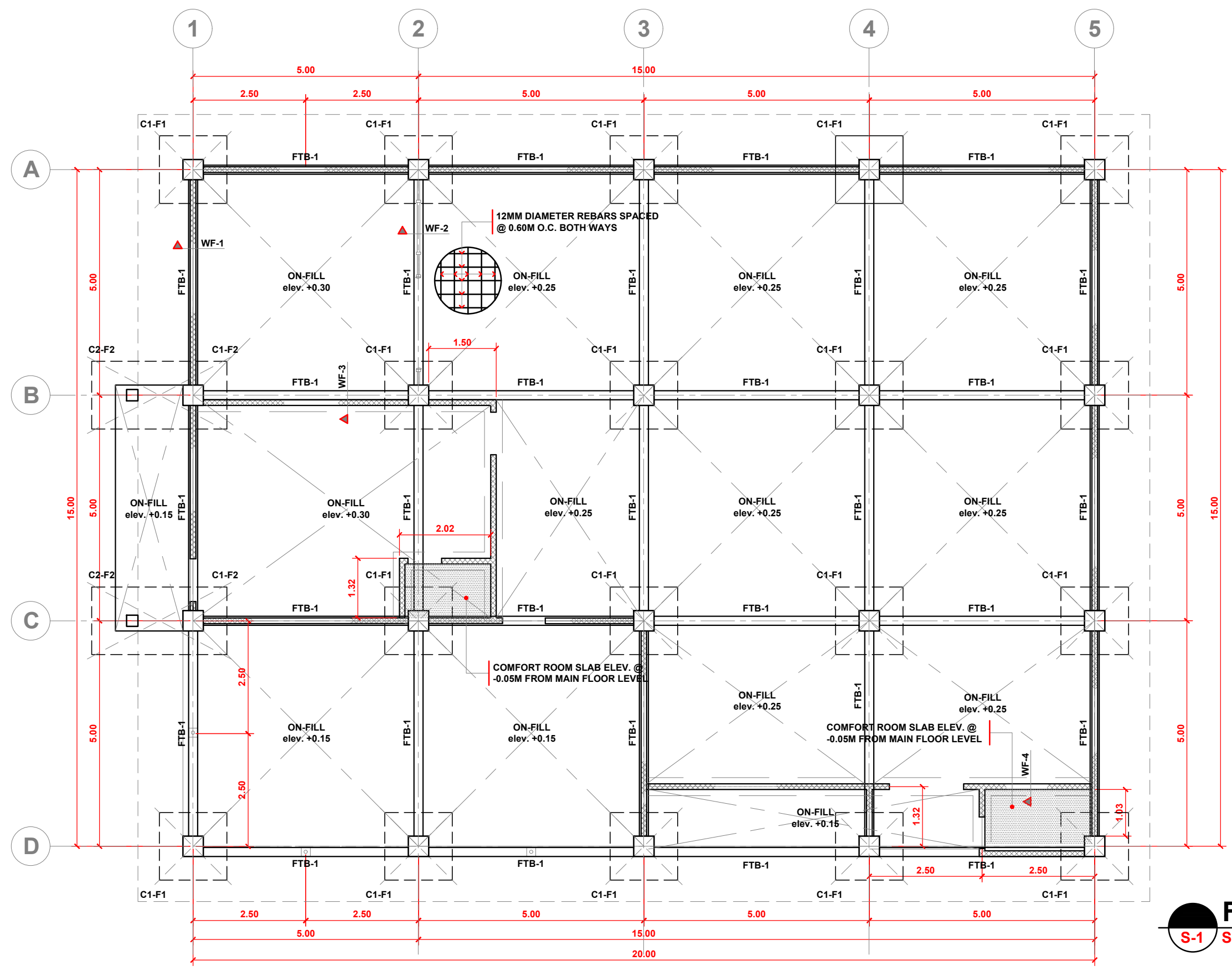
**D 3** FLUSH DOOR WITH GLASS PANEL ON 1/4" THK. W/ GLASS - SWING DOOR  
SET: 3 SETS

**D 4** PLASTIC PVC DOOR WITH COMPLETE ACCESSORIES AND LOUVER  
SET: 2 SETS

**SCHEDULE OF DOORS**  
A-8 SCALE: 1 : 40 MTS

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION		DR. PATRICIA B. ARINTO UPTC - DEAN		<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	A 6   6
											PREPARED BY: MICHAEL Y. ABALOS DRAFTSMAN

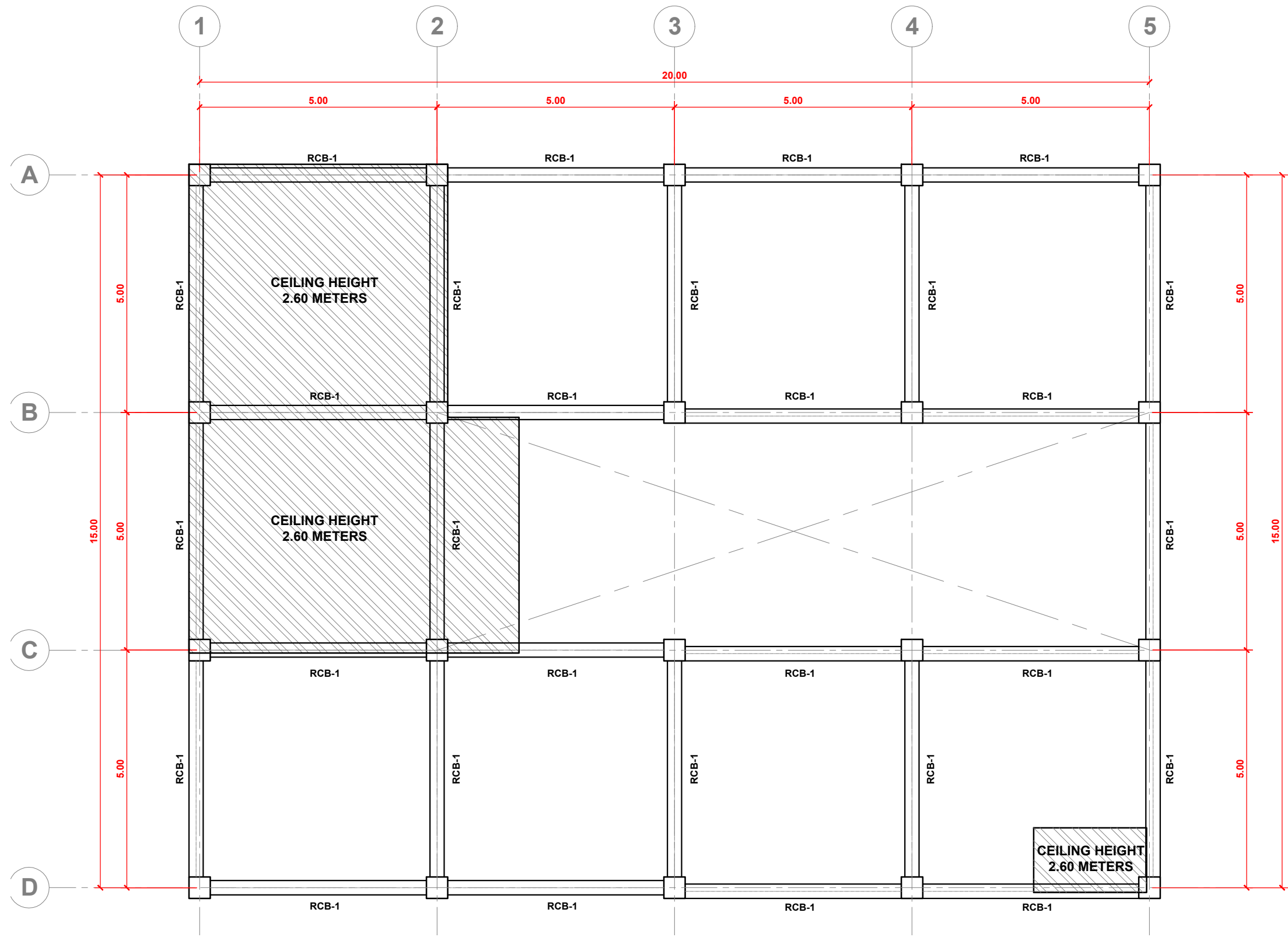




**FOUNDATION PLAN**  
 S-1 SCALE: 1 : 100 MTS.

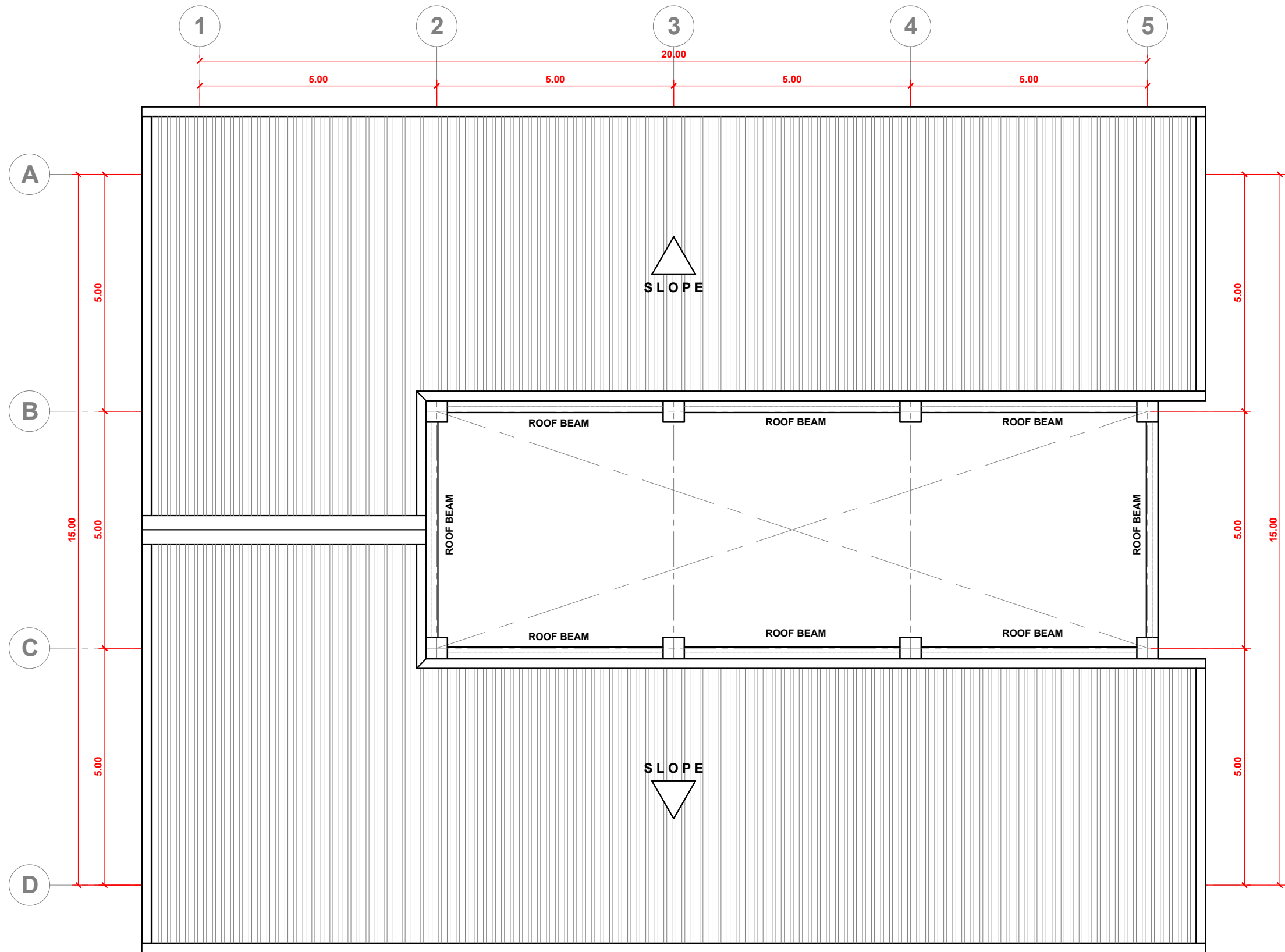
OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :	
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION	DR. PATRICIA B. ARINTO UPTC - DEAN	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">S</div> </div> <div style="display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">1</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">9</div> </div> <div style="text-align: center; margin: 0 auto;">REVISION</div> <div style="text-align: center; margin: 0 auto;">00</div>
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:						
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY						





**RCB-1**  
**REINFORCED CONCRETE BEAM LAYOUT**  
 S-2 SCALE: 1 : 100 MTS.

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE <b>CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE</b> TACLOBAN CITY		<b>PROPOSED MUSSEL GLYCOGEN          PRODUCTION PLANT</b>					<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border-right: 1px solid black; padding: 2px 5px;">S</div> <div style="padding: 2px 5px;">29</div> </div> REVISION 00
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:		PROF. JOHN PAUL T. YUSIONG	PROF. ARVIN DE VEYRA	DR. PATRICIA B. ARINTO	
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY		<small>DNSM DIVISION CHAIR</small>	<small>ASSOCIATE DEAN FOR ADMINISTRATION</small>	<small>UPTC - DEAN</small>	



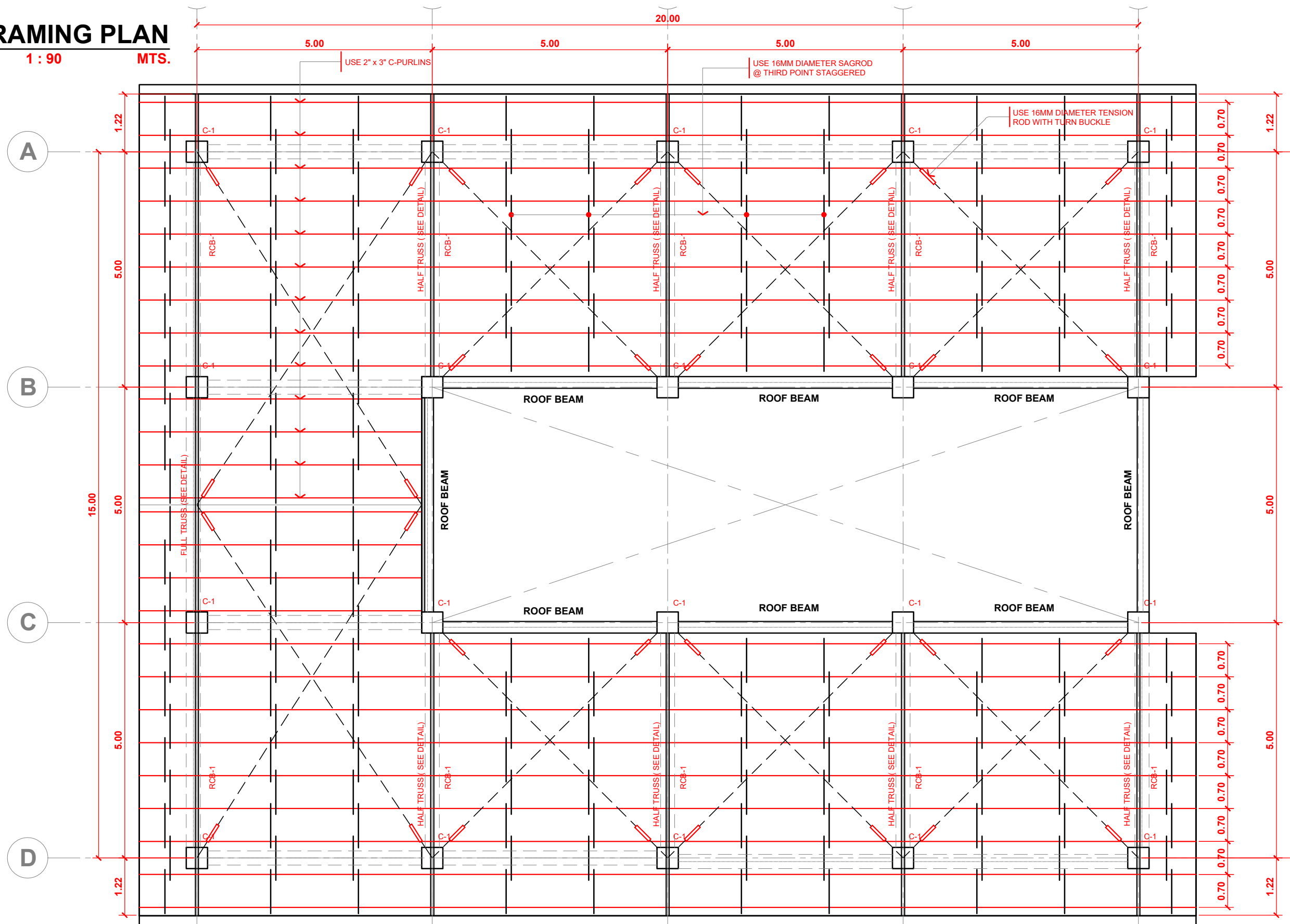
**ROOF BEAM**  
**REINFORCED CONCRETE BEAM LAYOUT**  
 S-3 SCALE: 1 : 100 MTS.

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE <b>CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE</b> TACLOBAN CITY		<b>PROPOSED MUSSEL GLYCOGEN          PRODUCTION PLANT</b>					<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 5px;">S</div> <div style="text-align: center; margin-right: 5px;">3</div> <div style="text-align: center; margin-right: 5px;">9</div> </div> REVISION
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:	PROF. JOHN PAUL T. YUSIONG	PROF. ARVIN DE VEYRA	DR. PATRICIA B. ARINTO		00
MICHAEL Y. ABALOS <small>DRAFTSMAN</small>	ROAN S. ABRAJANO <small>CMGF</small>	TELESFORO S. SALES <small>CDMO HEAD</small>	UP STA ELENA, TACLOBAN CITY	<small>DNSM DIVISION CHAIR</small>	<small>ASSOCIATE DEAN FOR ADMINISTRATION</small>	<small>UPTC - DEAN</small>		

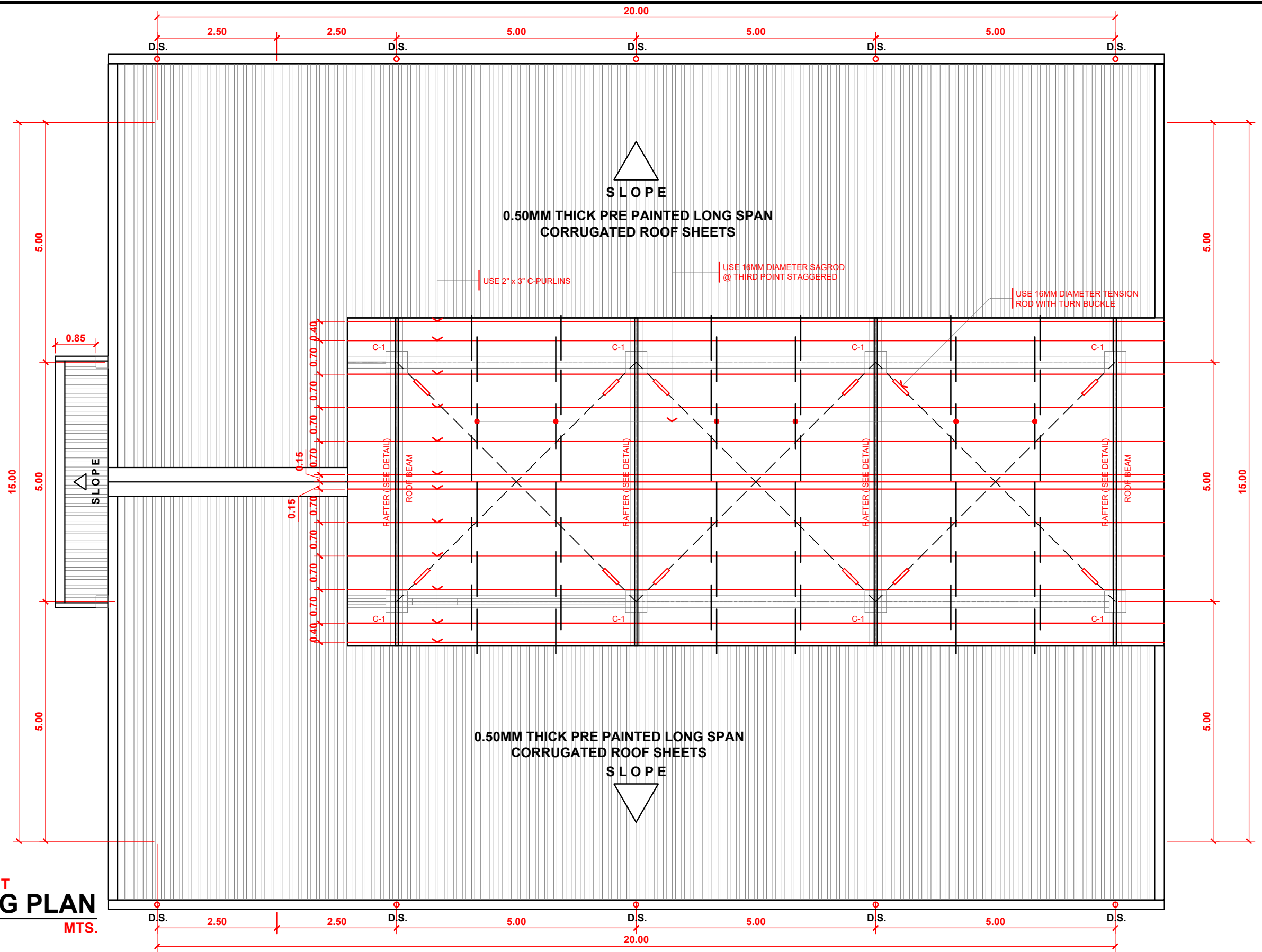


# ROOF FRAMING PLAN

SCALE: 1 : 90 MTS.




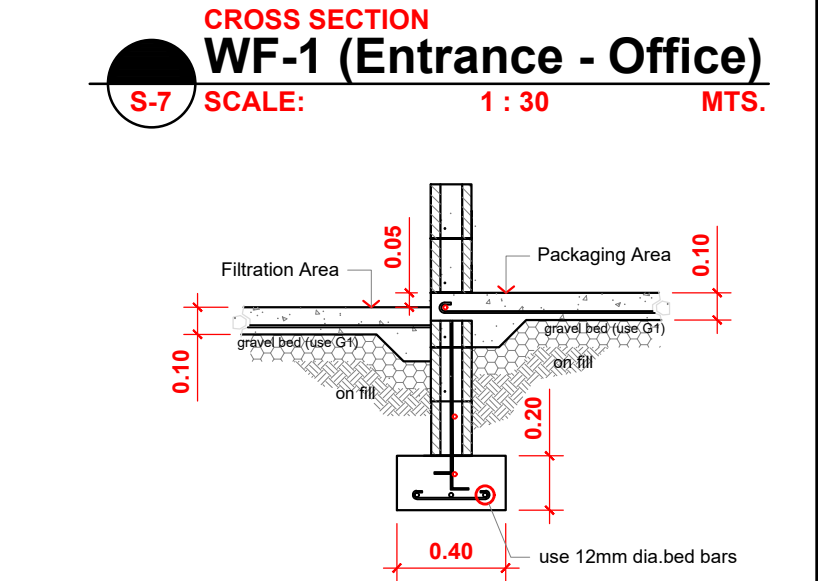
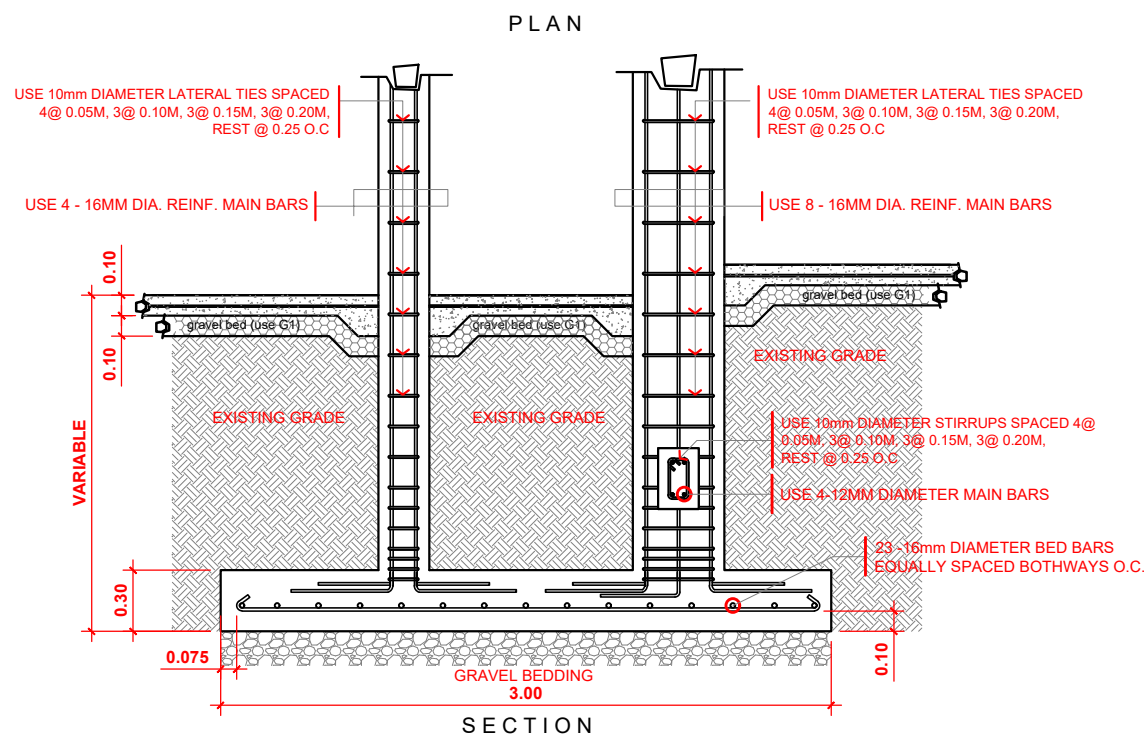
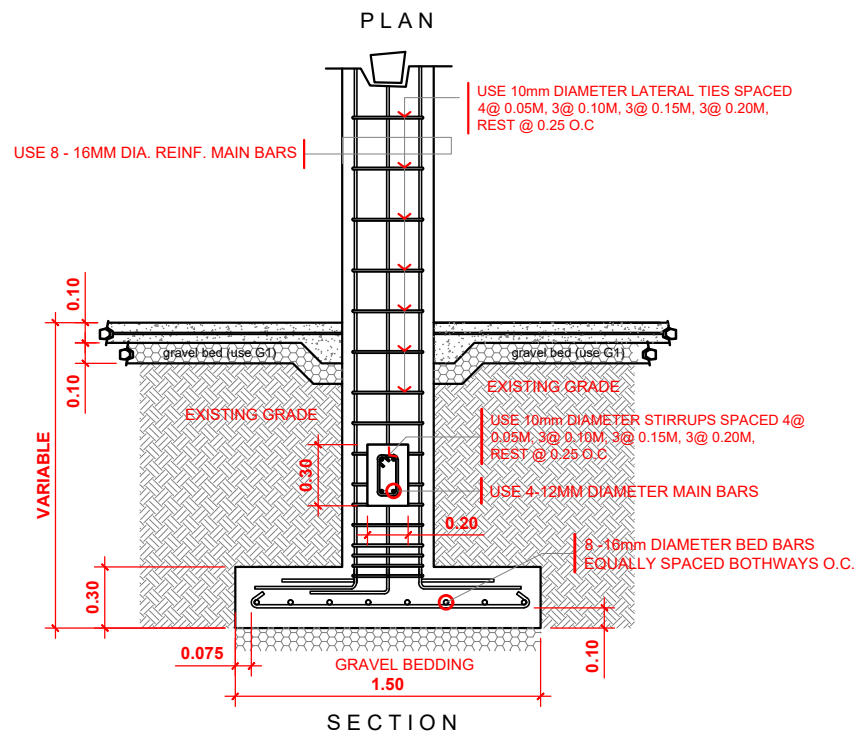
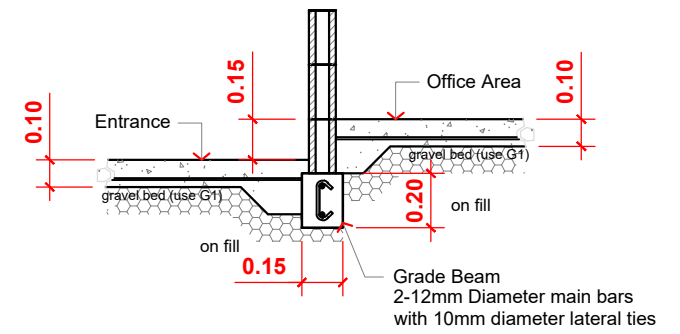
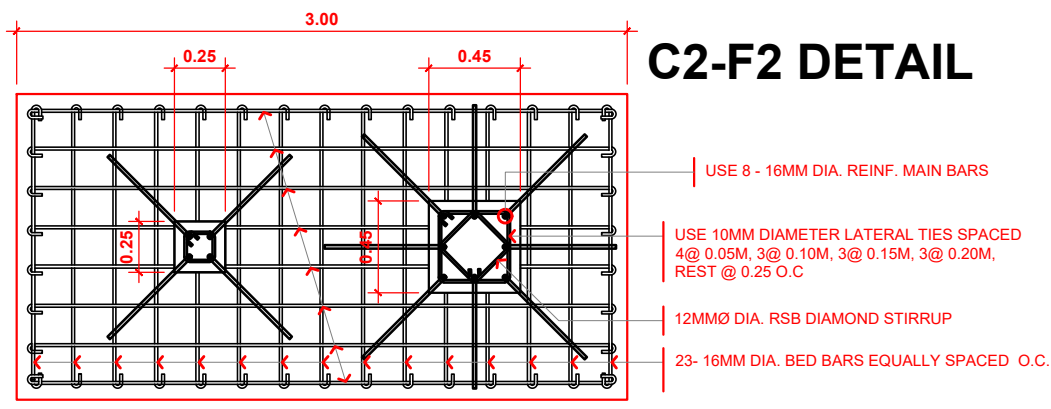
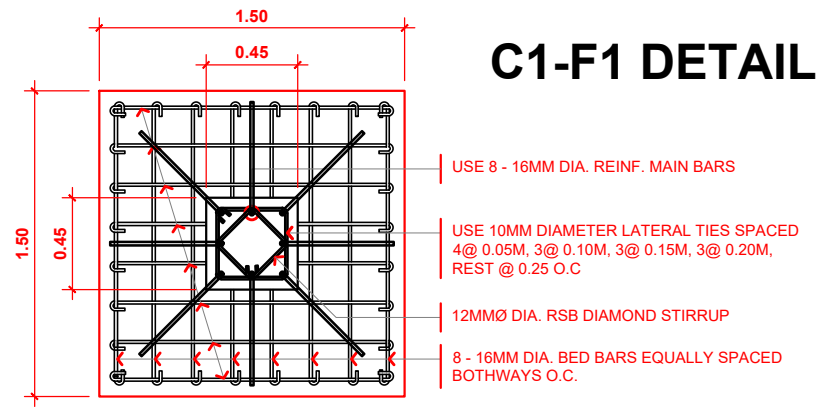
OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION		DR. PATRICIA B. ARINTO UPTC - DEAN		S 4   9
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:							REVISION
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY					<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION		00



**RAFTER FRAMING LAYOUT  
ROOF FRAMING PLAN**

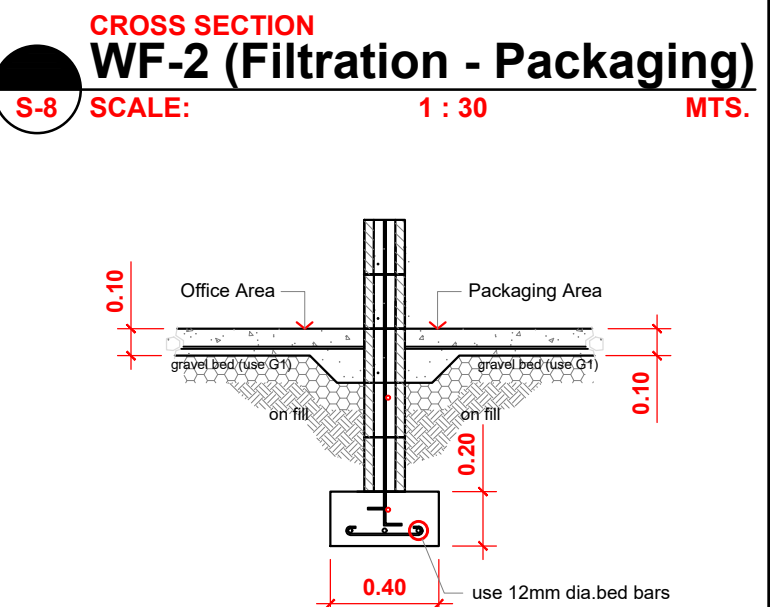
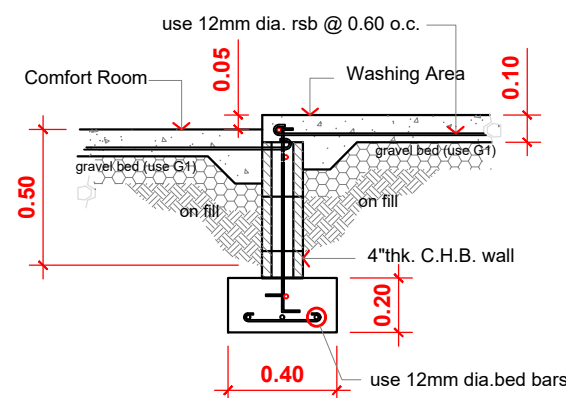
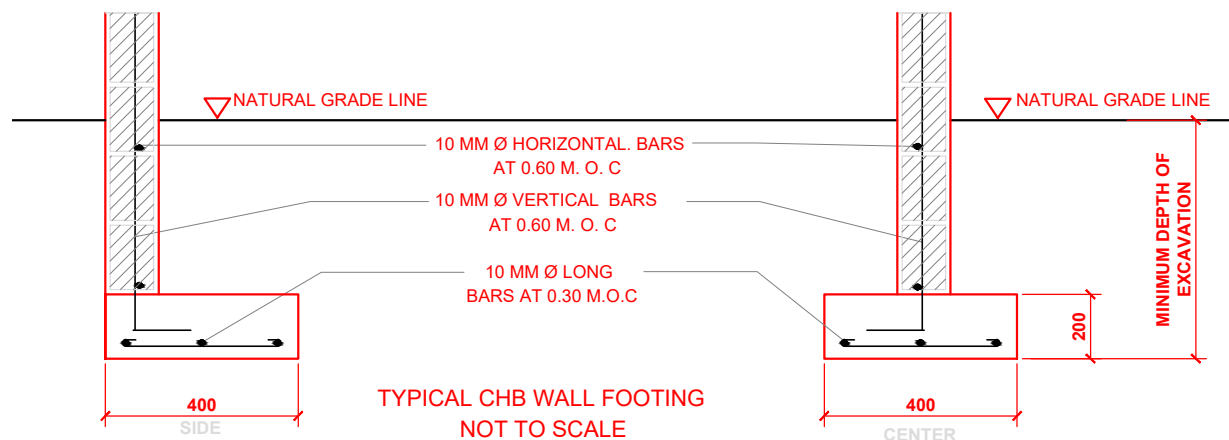
**S-5** SCALE: **1 : 90** MTS.

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		<b>PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT</b>		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION	DR. PATRICIA B. ARINTO UPTC - DEAN	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">S</div> </div> <div style="display: flex; justify-content: space-between; width: 40px; height: 40px; margin: 0 auto;"> <span>5</span> <span>9</span> </div> REVISION 00
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:						
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY						



**COLUMN FOOTING DETAILS**

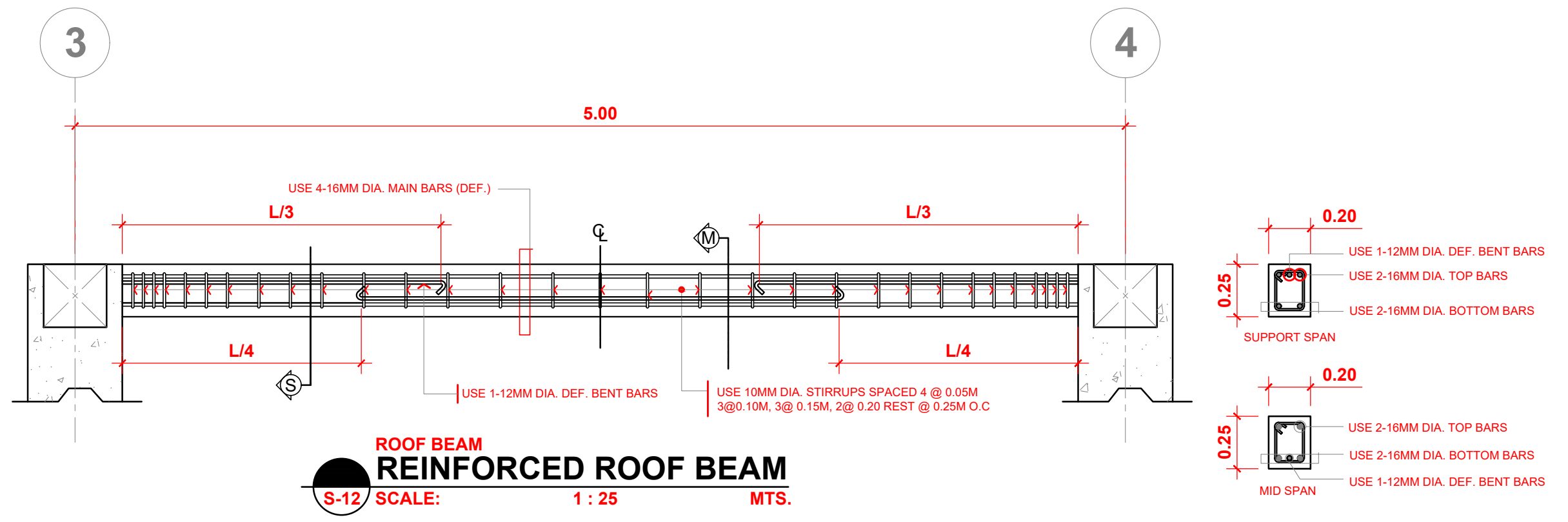
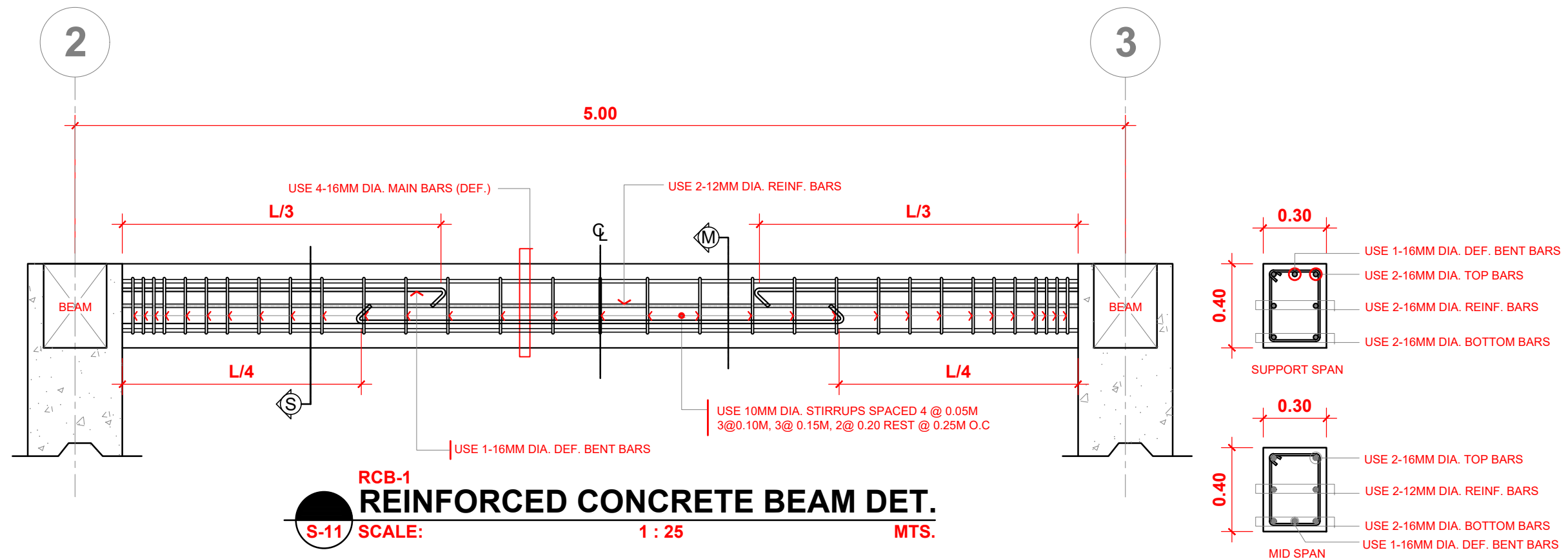
S-6 SCALE: 1 : 40 MTS.



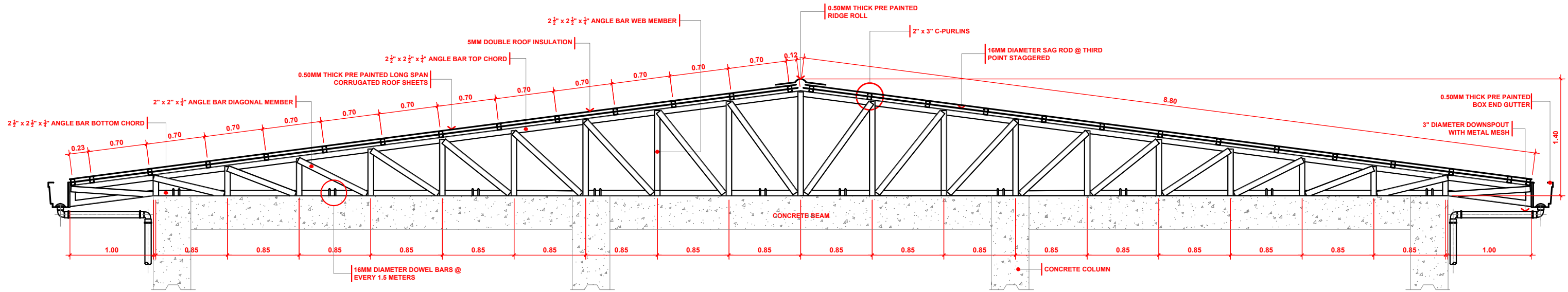
**CROSS SECTION WF-4 (Comfort Rm. - Washing Area)**

S-10 SCALE: 1 : 30 MTS.

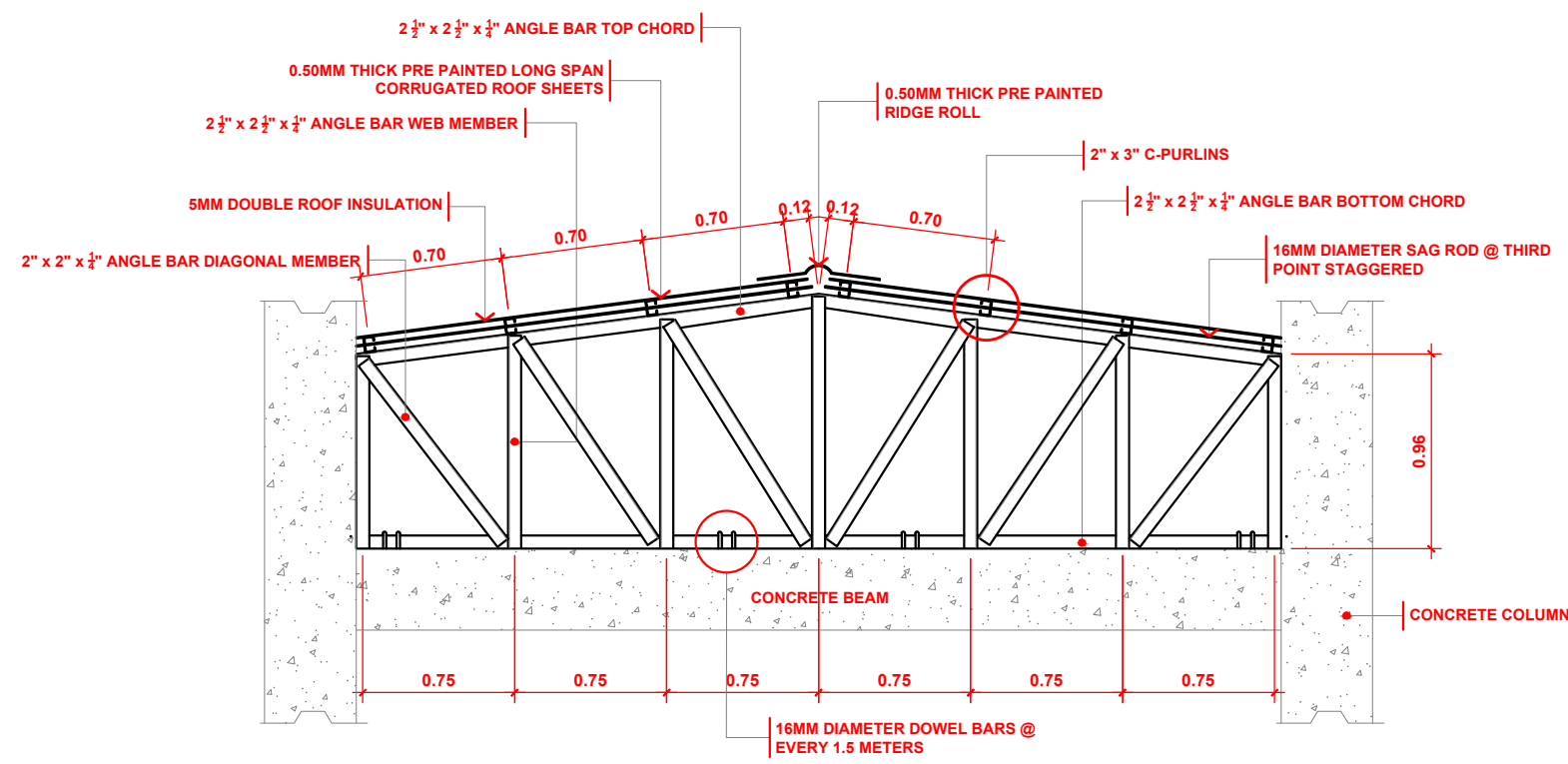
OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION		<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION		<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">S</div> </div> <div style="display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">6</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">9</div> </div>
PREPARED BY: MICHAEL Y. ABALOS DRAFTSMAN	CHECKED BY: ROAN S. ABRAJANO CMGF	RECOMMENDED BY: TELESFORO S. SALES CDMO HEAD	LOCATION: UP STA ELENA, TACLOBAN CITY			DR. PATRICIA B. ARINTO UPTC - DEAN				REVISION 00



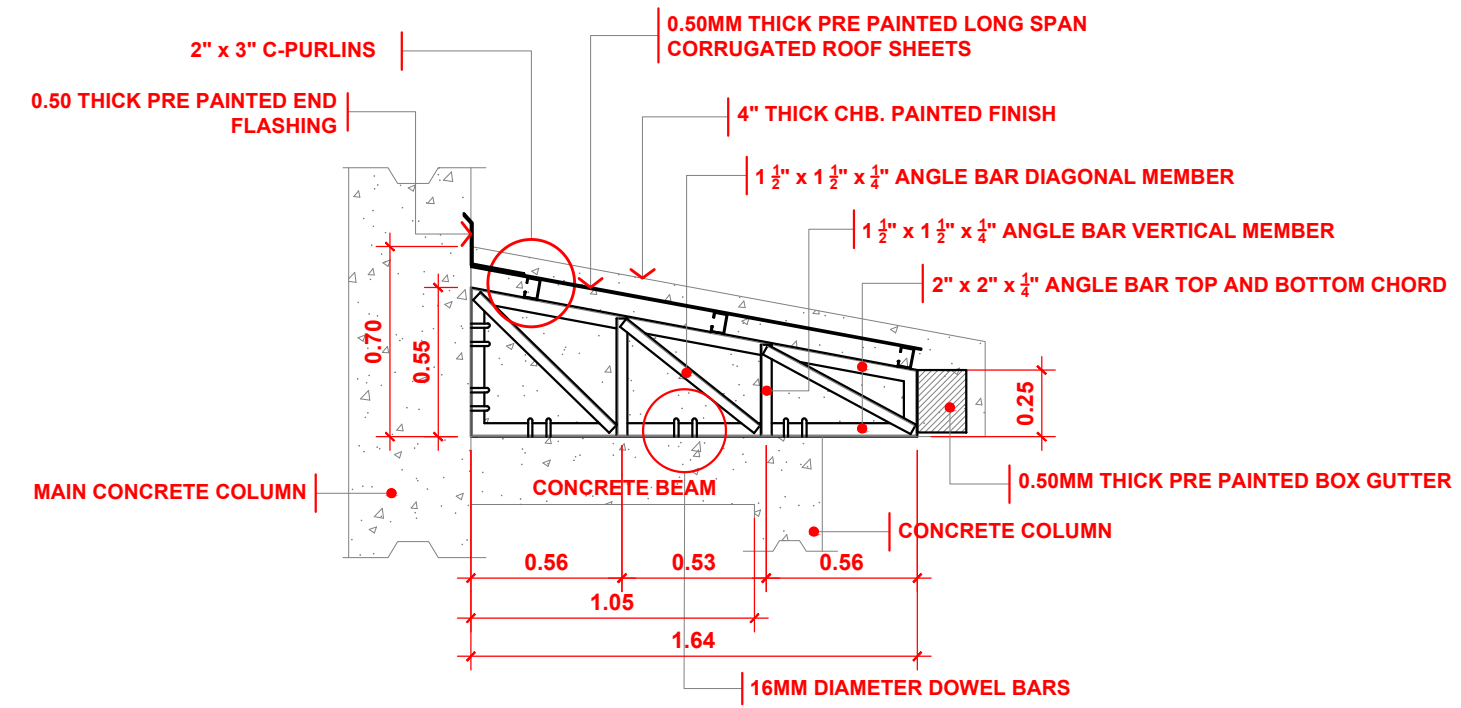
OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT					<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">S</div> </div> <div style="display: flex; justify-content: space-between; width: 40px; height: 20px; margin: 0 auto;"> <span>7</span> <span>9</span> </div>
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:	PROF. JOHN PAUL T. YUSIONG	PROF. ARVIN DE VEYRA	DR. PATRICIA B. ARINTO	REVISION	
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY	DNSM DIVISION CHAIR	ASSOCIATE DEAN FOR ADMINISTRATION	UPTC - DEAN	00	




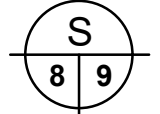
**FULL TRUSS  
STEEL TRUSS DETAIL**  
S-13 SCALE: 1 : 50 MTS.



**STEEL TRUSS  
SLOPING TOP CHORD TRUSS DETAIL**  
S-14 SCALE: 1 : 40 MTS.



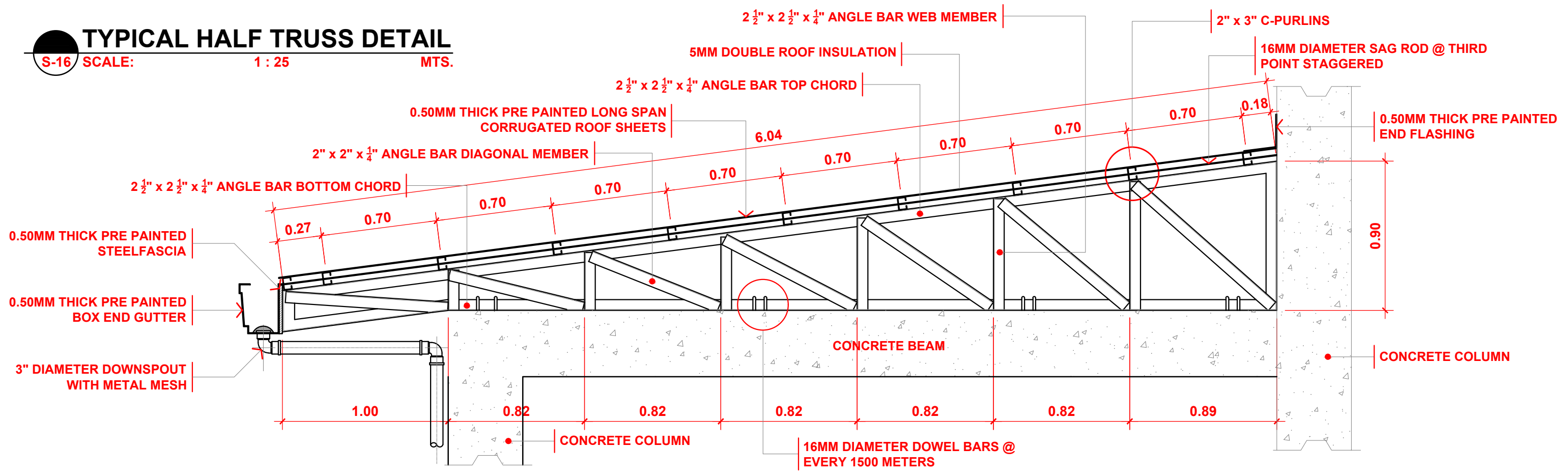
**FACADE CANOPY  
STEEL TRUSS DETAIL**  
S-15 SCALE: 1 : 30 MTS.

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION		DR. PATRICIA B. ARINTO UPTC - DEAN		<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	
											REVISION
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:								
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY								



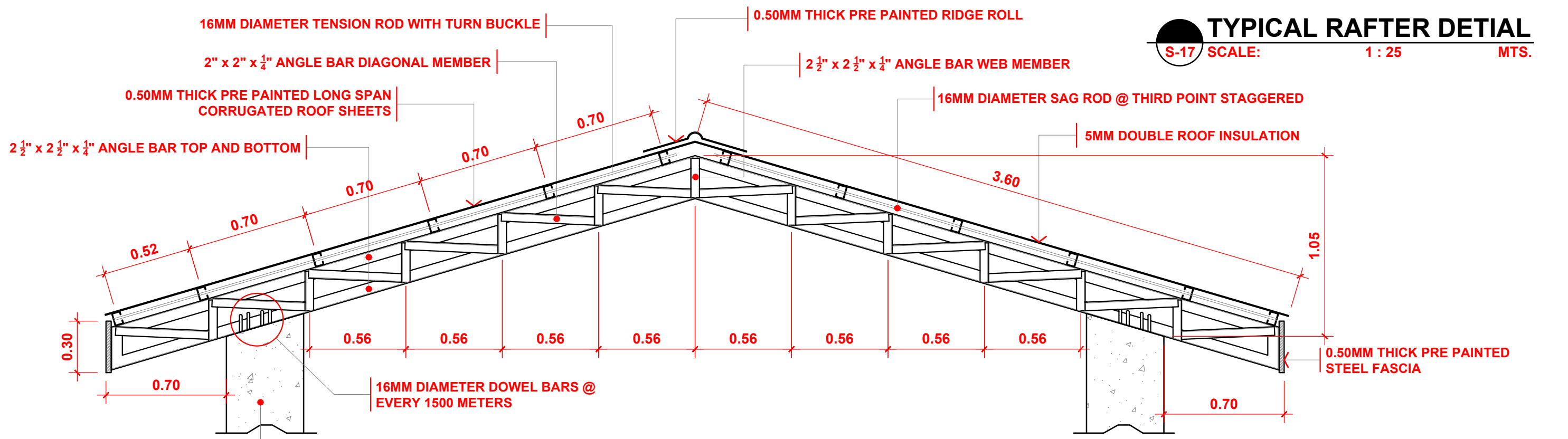
# TYPICAL HALF TRUSS DETAIL

S-16 SCALE: 1 : 25 MTS.



# TYPICAL RAFTER DETAIL

S-17 SCALE: 1 : 25 MTS.

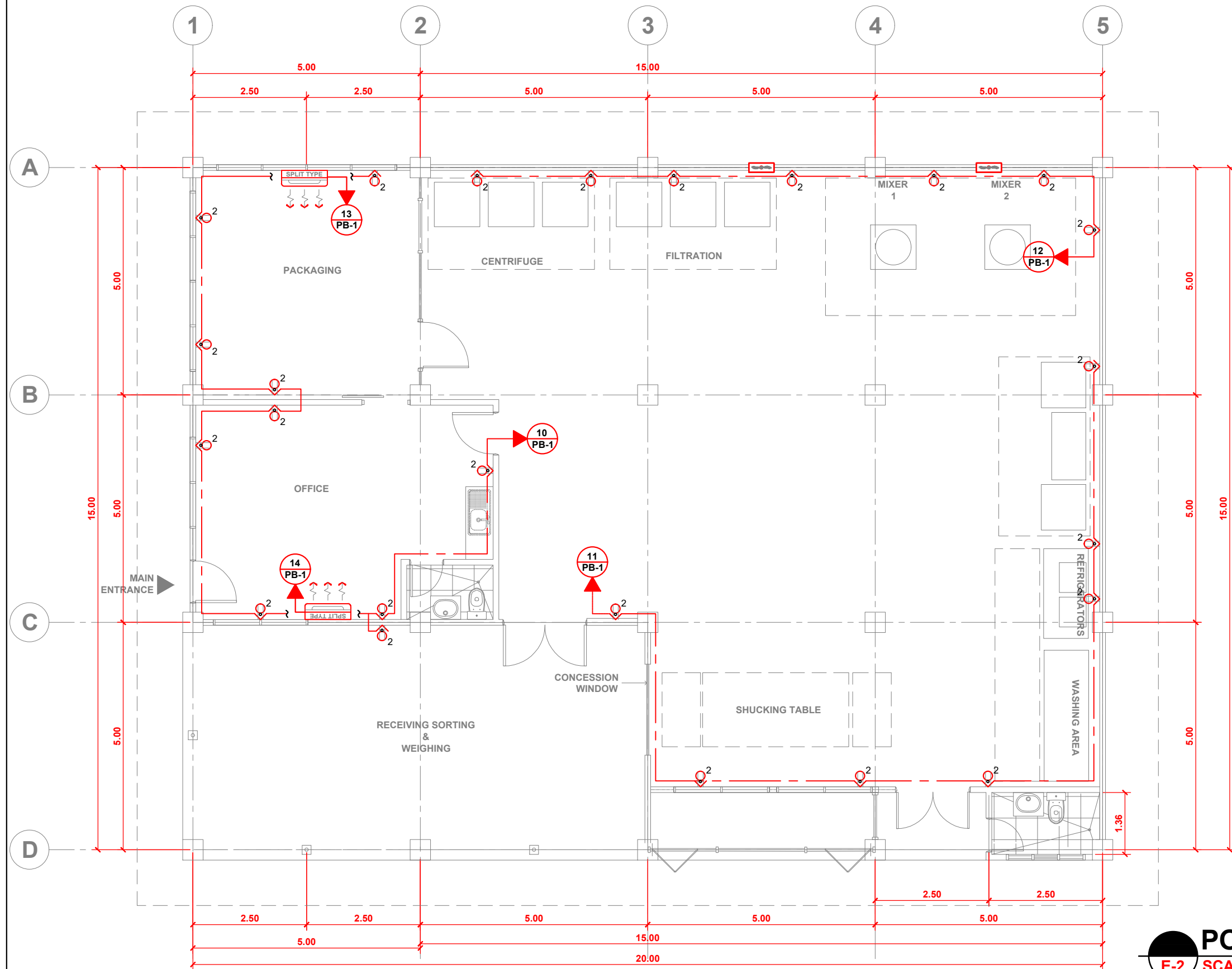


OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION		<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION		<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">S</div> </div> 9   9 REVISION 00
PREPARED BY: MICHAEL Y. ABALOS DRAFTSMAN	CHECKED BY: ROAN S. ABRAJANO CMGF	RECOMMENDED BY: TELESFORO S. SALES CDMO HEAD	LOCATION: UP STA ELENA, TACLOBAN CITY	DR. PATRICIA B. ARINTO UPTC - DEAN						





NATIONAL ROAD

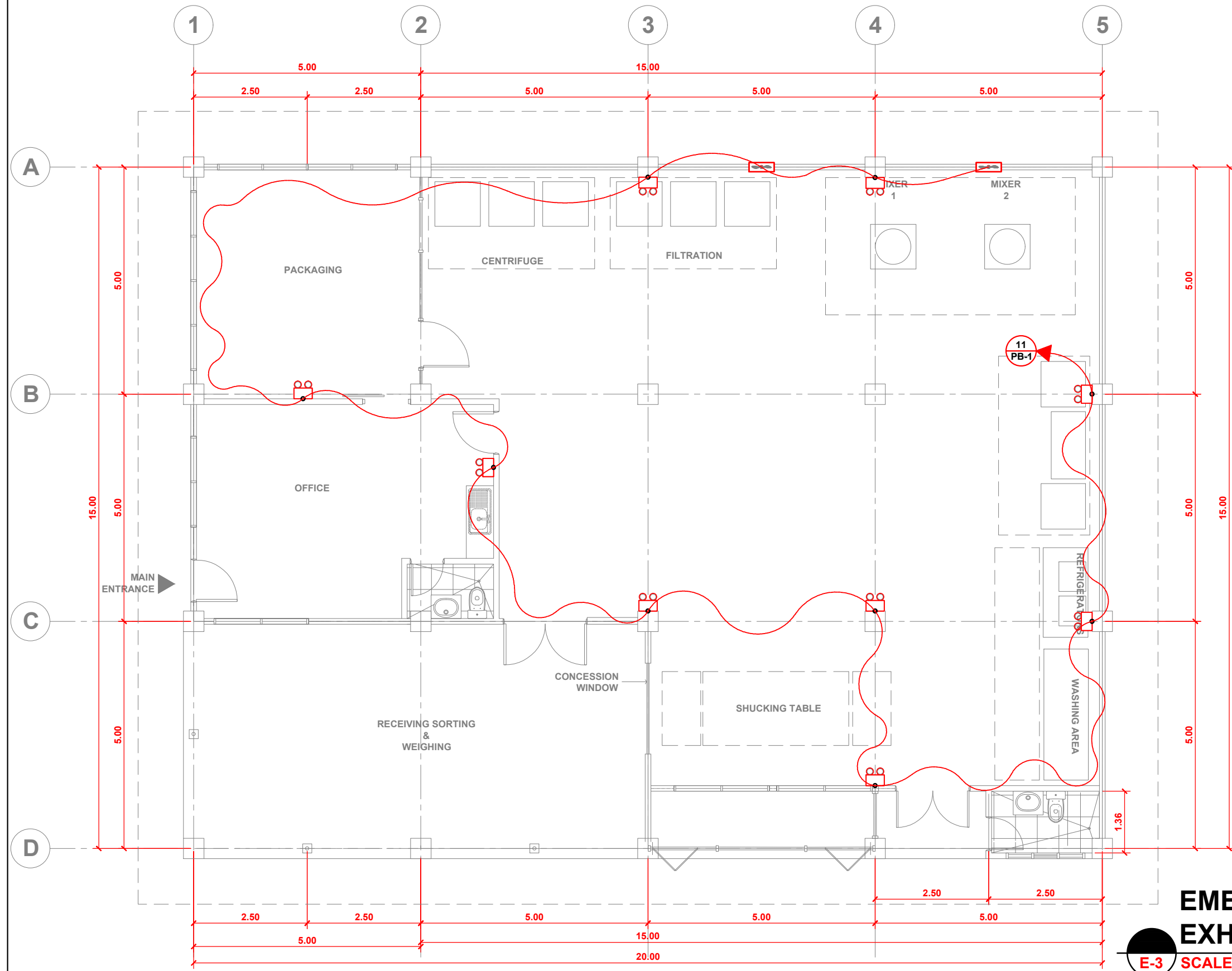


**POWER OUTLET PLAN**  
**E-2** SCALE: 1 : 80 MTS.

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :	
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION	DR. PATRICIA B. ARINTO UPTC - DEAN	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">E</div> <div style="margin: 0 5px;">2</div> <div style="margin: 0 5px;">5</div> </div> REVISION 00
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:						
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY						



NATIONAL ROAD



### EMERGENCY LIGHT AND EXHAUST FAN LAYOUT

E-3 SCALE: 1 : 100 MTS.


OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :	
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION	DR. PATRICIA B. ARINTO UPTC - DEAN	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">E</div> </div> <div style="display: flex; justify-content: space-between; width: 40px; height: 40px; margin: 0 auto;"> <span>3</span> <span>5</span> </div> REVISION 00
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:						
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY						



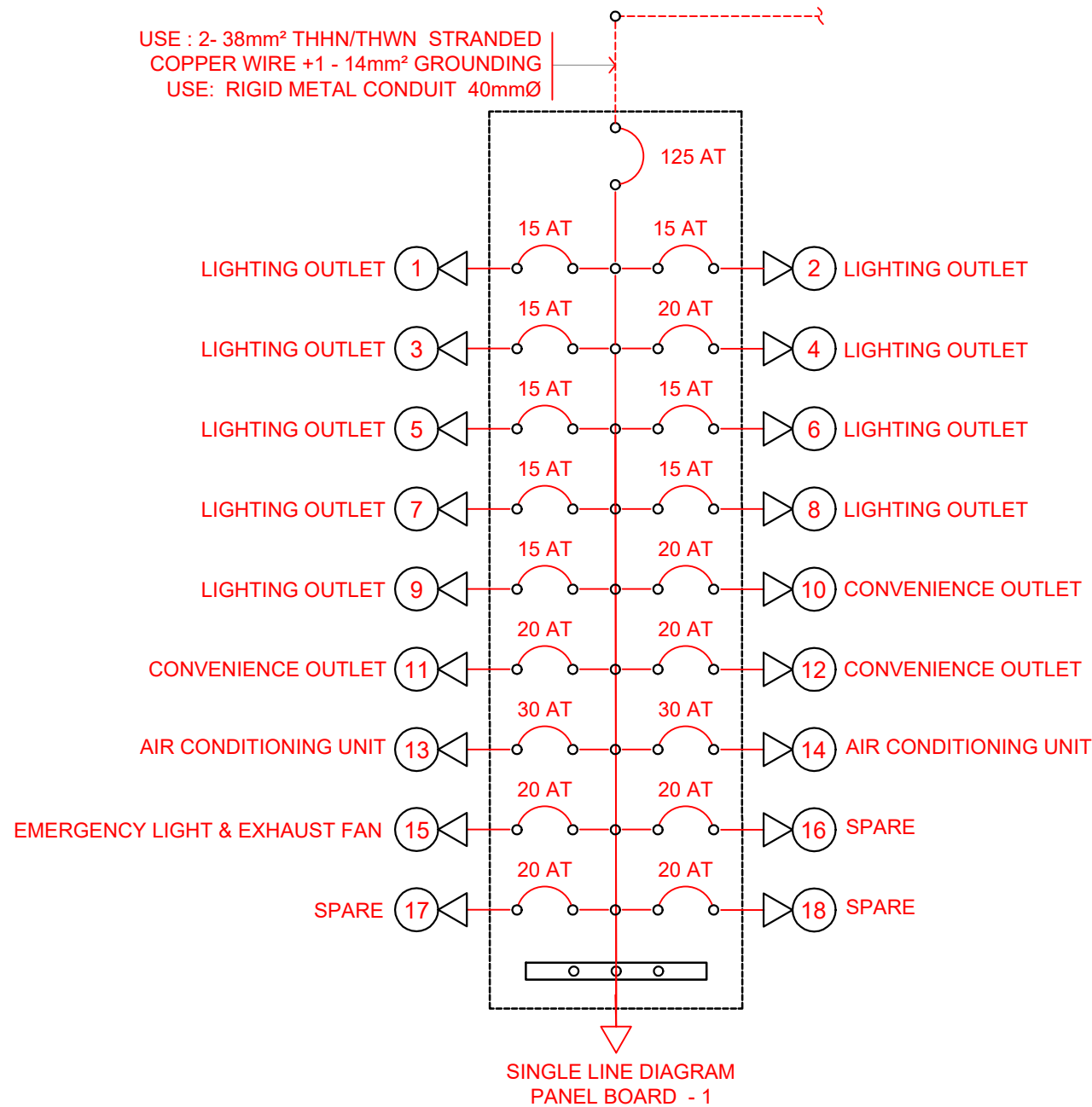
SCHEDULE OF LOADS:  
(PB-1) PANEL BOARD - 1  
TYPE OF SERVICE: 230 VOLTS ,60HZ ,SINGLE PHASE LINE TO GROUND SYSTEM

CIRCUIT NO.	DESCRIPTION	NO. OF OUTLETS	PHASE	VA	VOLTS	AMPERE PER CIRCUIT	CIRCUIT PROTECTION	KAIC RATING	SIZE OF		
									GROUNDING WIRE (COLOR : GREEN)	WIRE	CONDUIT
1	LIGHTING OUTLET	10	1 Ø	1000	230	4.348	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
2	LIGHTING OUTLET	6	1 Ø	600	230	2.609	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
3	LIGHTING OUTLET	11	1 Ø	1100	230	4.783	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
4	LIGHTING OUTLET	13	1 Ø	1300	230	5.652	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
5	LIGHTING OUTLET	9	1 Ø	900	230	3.913	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
6	LIGHTING OUTLET	9	1 Ø	900	230	3.913	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
7	LIGHTING OUTLET	9	1 Ø	900	230	3.913	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
8	LIGHTING OUTLET	12	1 Ø	1200	230	5.217	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
9	LIGHTING OUTLET	11	1 Ø	1100	230	4.783	15-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
10	CONVENIENCE OUTLET	10	1 Ø	3600	230	15.652	20-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
11	CONVENIENCE OUTLET	7	1 Ø	2520	230	10.956	20-AT	10 KA	1 - 5.5MM <sup>2</sup> THHN/THWN	2 - 5.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
12	CONVENIENCE OUTLET	7	1 Ø	2520	230	10.956	20-AT	10 KA	1 - 5.5MM <sup>2</sup> THHN/THWN	2 - 5.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
13	AIR CONDITIONING UNIT	1	1 Ø	1500	230	6.522	30-AT	10 KA	1 - 5.5MM <sup>2</sup> THHN/THWN	2 - 5.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
14	AIR CONDITIONING UNIT	1	1 Ø	1500	230	6.522	30-AT	10 KA	1 - 5.5MM <sup>2</sup> THHN/THWN	2 - 5.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
15	EMERGENCY LIGHT & EXHAUST FAN	11	1 Ø	1100	230	4.783	20-AT	10 KA	1 - 3.5MM <sup>2</sup> THHN/THWN	2 - 3.5MM <sup>2</sup> THWN WIRE STRANDED	20mm Ø PVC PIPE
16	SPARE						20-AT				
17	SPARE						20-AT				
18	SPARE						20-AT				
TOTAL		127		21,740		94.522					

**PB1 SCHEDULE OF LOADS**  
**E-4 SCALE: 1 : 80 MTS.**

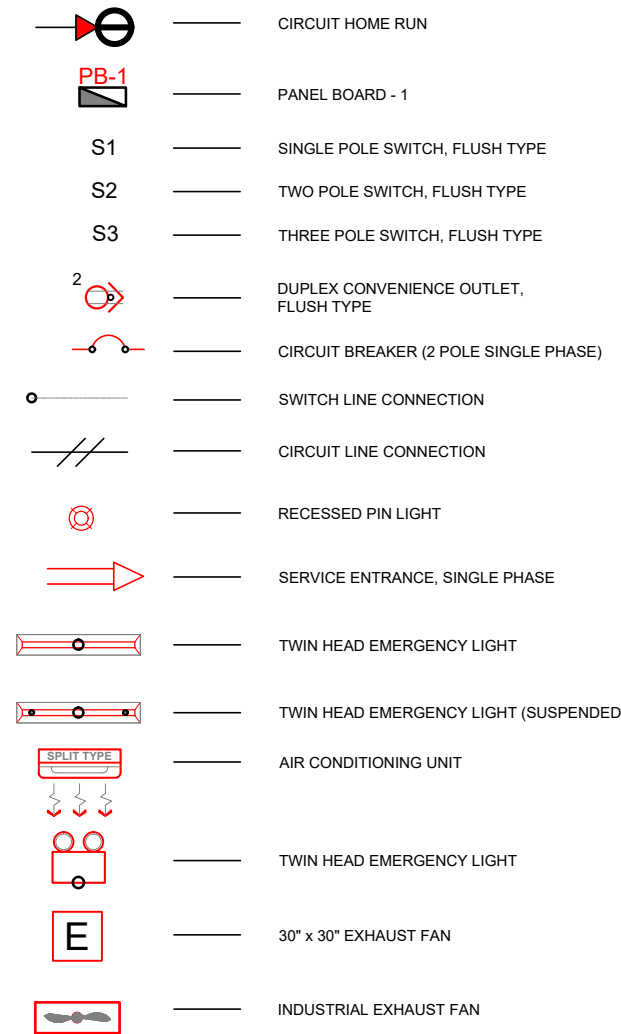
OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE <b>CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE</b> TACLOBAN CITY		<b>PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT</b>		PROF. JOHN PAUL T. YUSIONG <small>DNSM DIVISION CHAIR</small>		PROF. ARVIN DE VEYRA <small>ASSOCIATE DEAN FOR ADMINISTRATION</small>		DR. PATRICIA B. ARINTO <small>UPTC - DEAN</small>		<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border-right: 1px solid black; padding: 2px 5px;">E</div> <div style="padding: 2px 5px;">4   5</div> </div>
											PREPARED BY: <b>MICHAEL Y. ABALOS</b> <small>DRAFTSMAN</small>

USE : 2- 38mm<sup>2</sup> THHN/THWN STRANDED  
COPPER WIRE +1 - 14mm<sup>2</sup> GROUNDING  
USE: RIGID METAL CONDUIT 40mmØ



SINGLE LINE DIAGRAM  
PANEL BOARD - 1

**ELECTRICAL SYMBOLS**



**ELECTRICAL LEGEND**  
E-6 SCALE: NOT DRAWN TO SCALE

**ELECTRICAL GENERAL NOTES :**

- ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL CONFORM WITH THE LATEST APPROVED EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), RULES AND REGULATIONS OF THE LOCAL AND NATIONAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND ORDINANCES.
- ELECTRICAL SERVICES REQUIREMENT SHALL BE 230 VOLTS, 60 Hz. NO BRANCH CIRCUIT SHALL HAVE A LOAD OF MORE THAN 80% OF ITS RATING.
- ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE FOR BOTH PURPOSE INTENDED. ALL WIRES SHALL BE INSULATED FOR 600 VOLTS AND SHALL BE INSIDE uPVC PIPES.
- WORKMANSHIP SHALL BE EQUAL TO THE BEST STANDARD PRACTICE RECOGNIZED AND ADOPTED FOR THIS TRADE.
- ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
- GROUNDING AND BONDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN/THWN" UNLESS OTHERWISE INDICATED IN THE PLAN.
- THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5MM<sup>2</sup> AND INSULATED FOR 600 VOLTS.
- ALL PANEL BOARDS SHALL BE PROVIDED WITH IDENTIFICATIONS AND LOAD DIRECTORY
- SMALLEST RACEWAY SHALL BE 15MMØ TRADE / NOMINAL SIZE.
- ALL ELECTRICAL OUTLETS SHALL BE (GROUND FAULT CIRCUIT INTERRUPTER GFCI UNIVERSAL OUTLET WITH GROUND.

**MOUNTING HEIGHT SHALL BE AS FOLLOWS:**

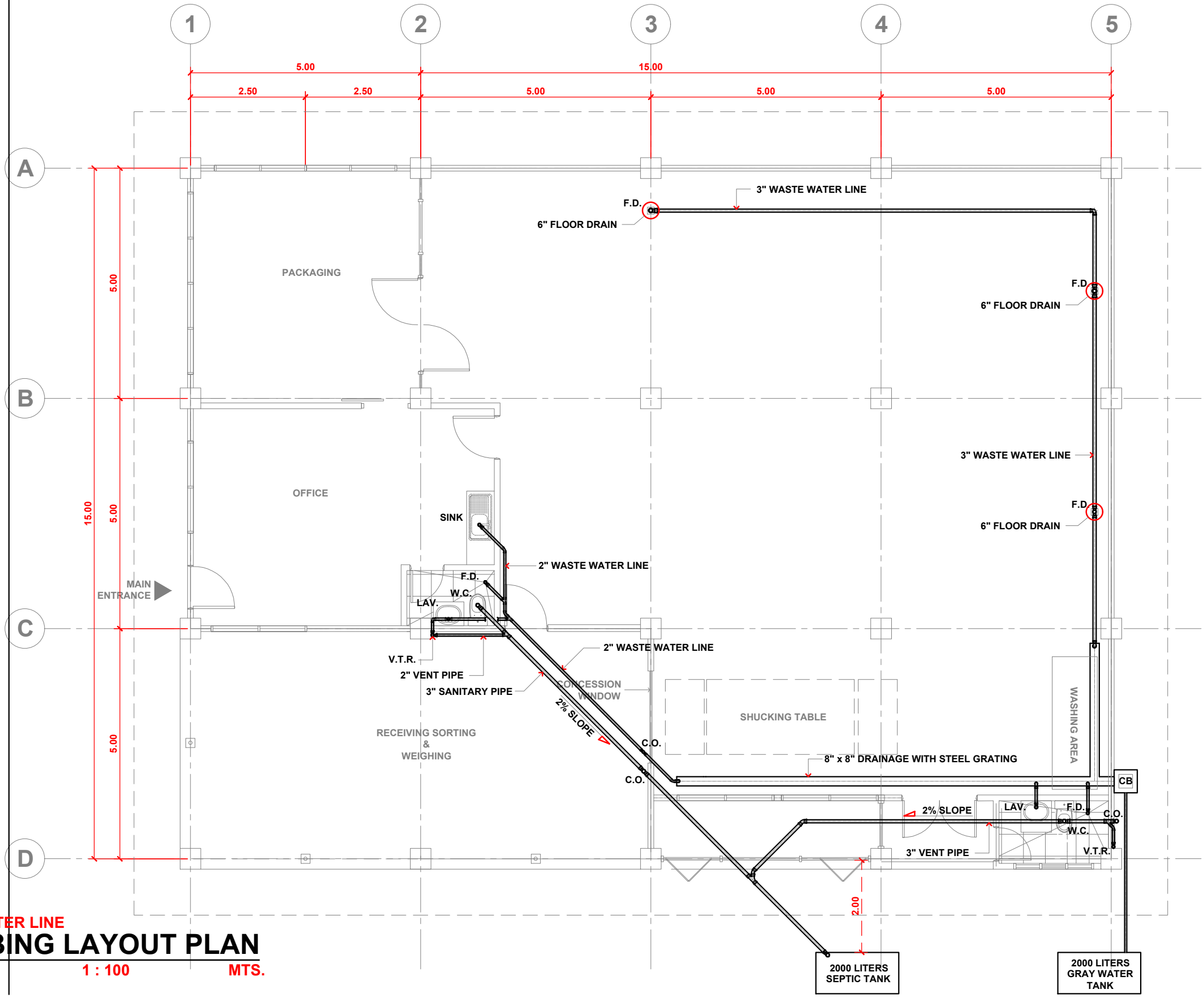
- PANEL BOARD 1.40 METERS ABOVE FINISH FLOOR LINE
- WALL SWITCHES 1.40 METERS ABOVE FINISH FLOOR LINE
- CONVENIENCE OUTLET 0.30 METERS ABOVE FINISH FLOOR LINE
- CABLE AND TELEPHONE OUTLETS 0.30 METERS ABOVE FINISH FLOOR LINE
- WALL LAMPS 1.60 METERS ABOVE FINISH FLOOR LINE

**ELECTRICAL GENERAL NOTES**  
E-7 SCALE: NOT DRAWN TO SCALE


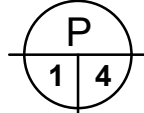
**SINGLE LINE DIAGRAM**  
E-5 SCALE: NOT DRAWN TO SCALE

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT						<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION		
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:	PROF. JOHN PAUL T. YUSIONG	PROF. ARVIN DE VEYRA	DR. PATRICIA B. ARINTO				REVISION
MICHAEL Y. ABALOS DRAFTSMAN	ROAN S. ABRAJANO CMGF	TELESFORO S. SALES CDMO HEAD	UP STA ELENA, TACLOBAN CITY	DNSM DIVISION CHAIR	ASSOCIATE DEAN FOR ADMINISTRATION	UPTC - DEAN				00

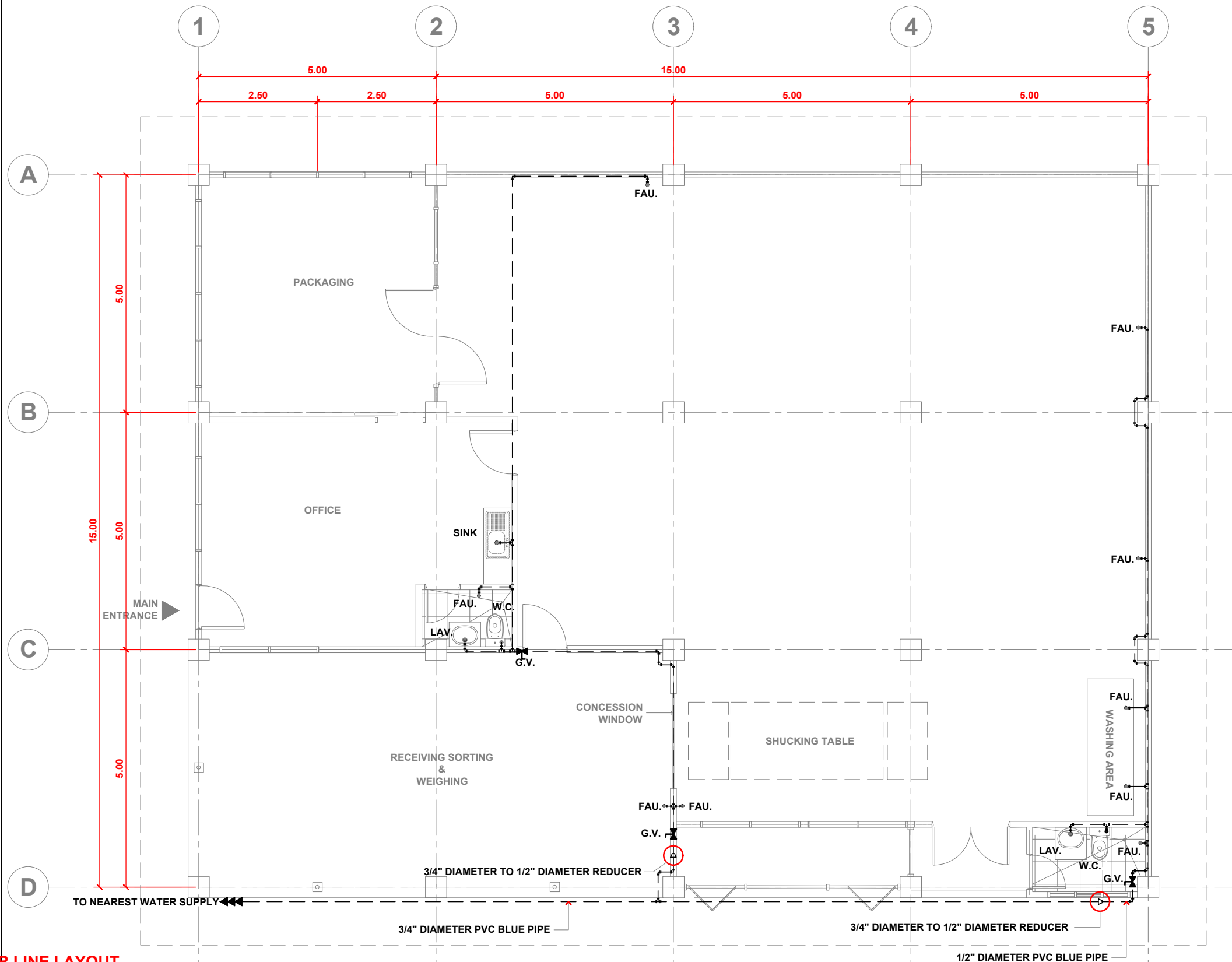
NATIONAL ROAD




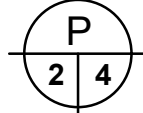
**WASTE WATER LINE PLUMBING LAYOUT PLAN**  
**P-1 SCALE: 1 : 100 MTS.**

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG <small>DNSM DIVISION CHAIR</small>		PROF. ARVIN DE VEYRA <small>ASSOCIATE DEAN FOR ADMINISTRATION</small>	DR. PATRICIA B. ARINTO <small>UPTC - DEAN</small>	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	 REVISION 00
								PREPARED BY: MICHAEL Y. ABALOS <small>DRAFTSMAN</small>	CHECKED BY: ROAN S. ABRAJANO <small>CMGF</small>

NATIONAL ROAD

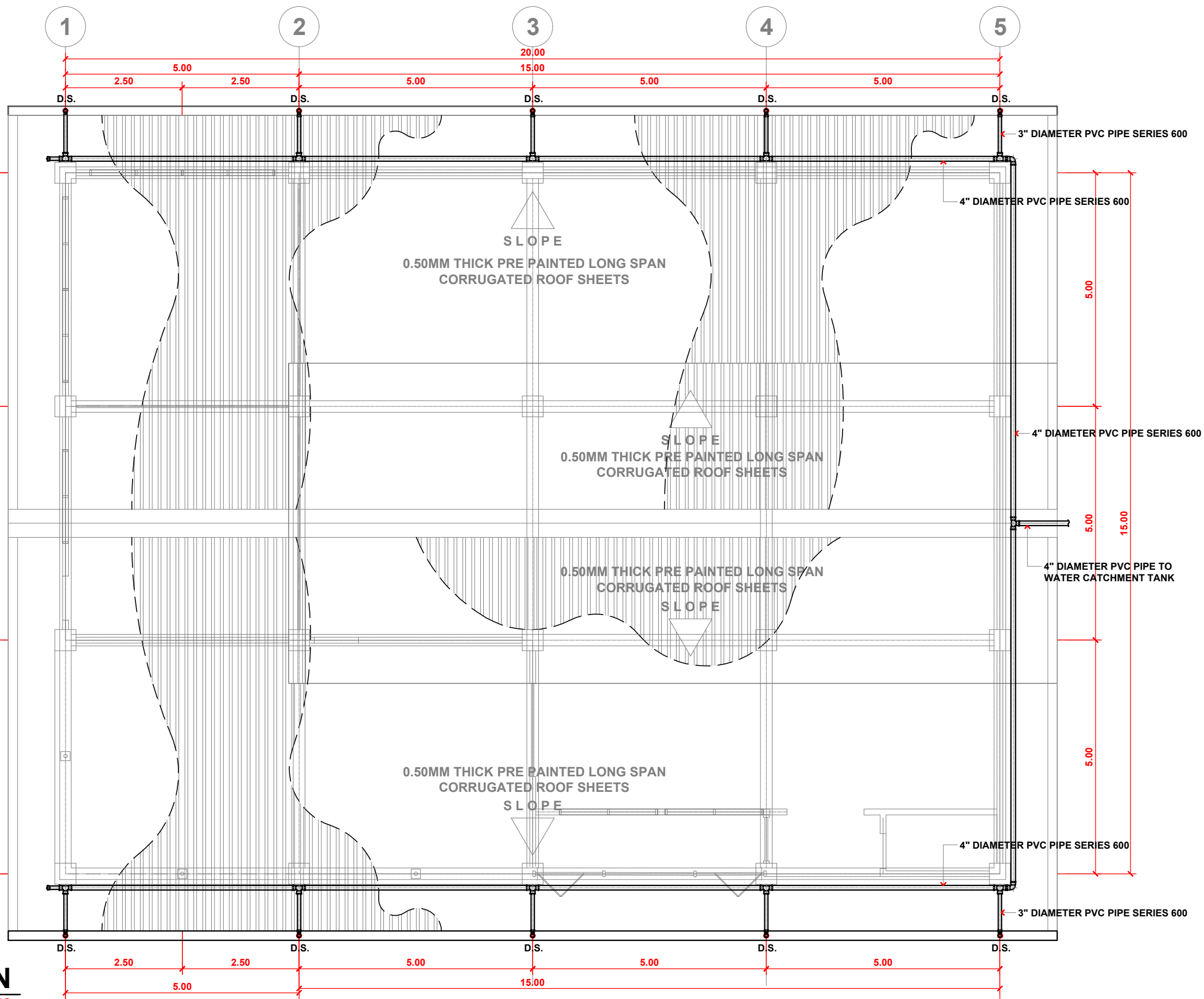


**FRESH WATER LINE LAYOUT**  
**PLUMBING LAYOUT PLAN**  
 P-2 SCALE: 1 : 100 MTS.

OFFICE OF:			PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY			PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG <small>DNSM DIVISION CHAIR</small>		PROF. ARVIN DE VEYRA <small>ASSOCIATE DEAN FOR ADMINISTRATION</small>	DR. PATRICIA B. ARINTO <small>UPTC - DEAN</small>	<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION	 REVISION 00
PREPARED BY:	CHECKED BY:	RECOMMENDED BY:	LOCATION:							
MICHAEL Y. ABALOS <small>DRAFTSMAN</small>	ROAN S. ABRAJANO <small>CMGF</small>	TELESFORO S. SALES <small>CDMO HEAD</small>	UP STA ELENA, TACLOBAN CITY							



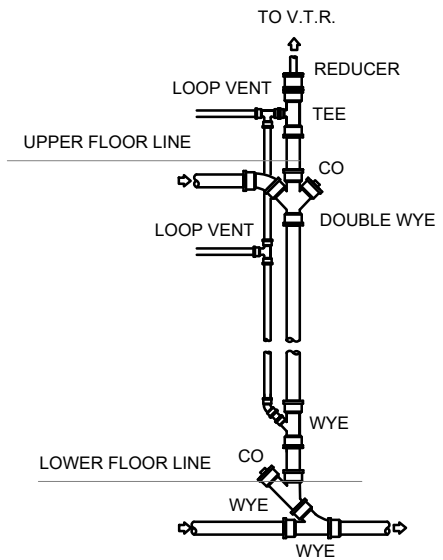
NATIONAL ROAD



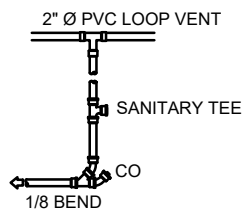
**DOWNSPOUT CONNECTION**  
**PLUMBING LAYOUT PLAN**  
 P-3 SCALE: 1 : 100 MTS.

OFFICE OF:		PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:		STATUS:		SHEET NO. :
UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY		PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION		<input type="checkbox"/> APPROVED <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> FOR REVISION		<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center; padding: 5px;">P</div> </div> 3   4 REVISION 00
PREPARED BY: MICHAEL Y. ABALOS DRAFTSMAN	CHECKED BY: ROAN S. ABRAJANO CMGF	RECOMMENDED BY: TELESFORO S. SALES CDMO HEAD	LOCATION: UP STA ELENA, TACLOBAN CITY	DR. PATRICIA B. ARINTO UPTC - DEAN						

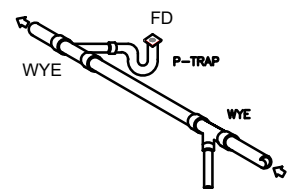




VERTICAL TO HORIZONTAL



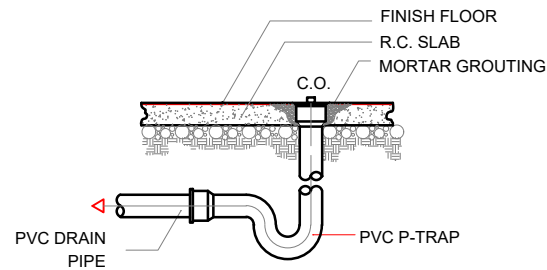
HORIZONTAL TO VERTICAL



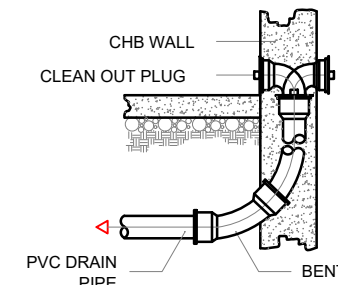
HORIZONTAL TO HORIZONTAL

**LEGEND :**

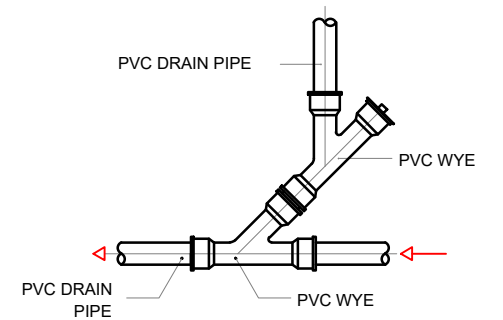
- W.C. WATER CLOSET
- LAV. LAVATORY
- FAU. FAUCET
- F.D. FLOOR DRAIN
- WATER SUPPLY LINE
- WASTE/SOIL LINE
- G.V. GATE VALVE
- C.V. CHECK VALVE
- D.S. DOWN SPOUT
- C.O. CLEAN OUT
- C.B. CATCH BASIN
- S.V. SEPTIC VAULT
- B.P. BOSTER PUMP



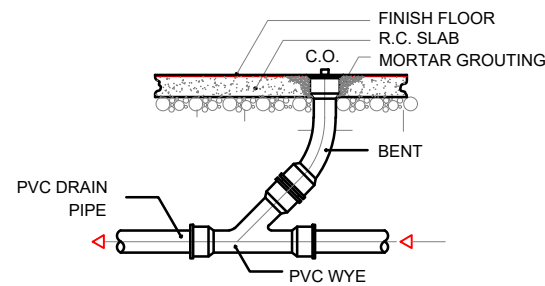
P-TRAP DETAIL



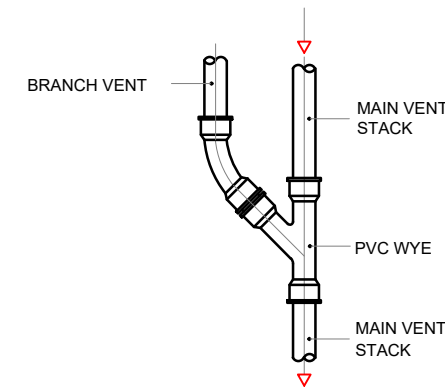
WALL CLEAN OUT



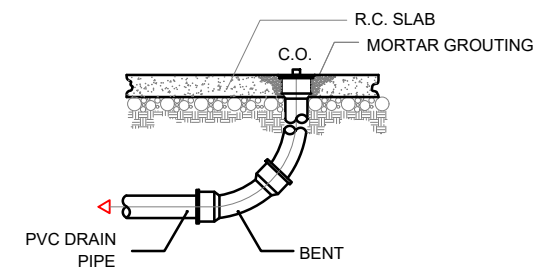
CHANGE OF HORIZONTAL DIRECTION



FLOOR CLEAN OUT




MAIN VENT STACK



FLOOR CLEAN OUT

**PIPE JOINT DETAILS**  
P-4 SCALE: NOT DRAWN TO SCALE

**STANDARD PIPE FITTINGS**  
P-5 SCALE: NOT DRAWN TO SCALE

OFFICE OF:			PROJECT NAME:		RECOMMENDING APPROVAL:		APPROVED BY:	STATUS:	SHEET NO. :	
 UNIVERSITY OF THE PHILIPPINES TACLOBAN COLLEGE CAMPUS DEVELOPMENT AND MAINTENANCE OFFICE TACLOBAN CITY			PROPOSED MUSSEL GLYCOGEN PRODUCTION PLANT		PROF. JOHN PAUL T. YUSIONG DNSM DIVISION CHAIR		PROF. ARVIN DE VEYRA ASSOCIATE DEAN FOR ADMINISTRATION	DR. PATRICIA B. ARINTO UPTC - DEAN	<input type="checkbox"/> APPROVED	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center; margin: 0 5px;">P</div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>4</span> <span>4</span> </div> </div>
									<input type="checkbox"/> APPROVED AS NOTED	
PREPARED BY: MICHAEL Y. ABALOS DRAFTSMAN	CHECKED BY: ROAN S. ABRAJANO CMGF	RECOMMENDED BY: TELESFORO S. SALES CDMO HEAD	LOCATION: UP STA ELENA, TACLOBAN CITY						REVISION 00	

## *Section VIII. Bill of Quantities*

### Bill of Quantities

Item	Activity	Quantity	Unit	Unit Cost	Total Cost
A.	Earthwork <ul style="list-style-type: none"> <li>• Site clearing, layout and staking</li> <li>• Excavation and backfill (column footing, footing tie beam, wall footing, catch basin and septic tank)</li> </ul>	1	lot		
B.	Concrete works <ul style="list-style-type: none"> <li>• Column footing</li> <li>• Footing tie beam</li> <li>• Roof beam</li> <li>• Concrete walls</li> <li>• Slab on fill</li> <li>• Formworks</li> </ul>	1	lot		
C.	Steel works <ul style="list-style-type: none"> <li>• Roof framing</li> <li>• Roofing</li> </ul>	1	lot		
D.	Ceiling works	1	lot		
E.	Electrical works	1	lot		
F.	Plumbing works	1	lot		
G.	Painting works	1	lot		
H.	Tiling works (comfort rooms)	1	lot		
I.	Doors and windows	1	lot		
J.	General requirements <ul style="list-style-type: none"> <li>• Project billboard/signage</li> <li>• Building permits and clearances</li> <li>• Safety and health</li> <li>• Temporary facilities</li> </ul>	1	lot		
K.	Mobilization & demobilization	1	lot		

*Note: this form must be duly signed*



*Section IX. Checklist of Technical and  
Financial Documents*

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

- Certificate of Site Inspection

### *Class "A" Documents*

#### Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

#### Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **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; **and**
- (d) Special PCAB License in case of Joint Ventures **and** registration for the type and cost of the contract to be bid; **and**
- (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission **or** original copy of Notarized Bid Securing Declaration; **and**
- (f) Project Requirements, which shall include the following:
  - a. Organizational chart for the contract to be bid;
  - b. **Notarized** list of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, **and key personnel's affidavit of commitment to work on the contract** with their complete qualification and experience data, biodata, valid PRC license;
  - c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, **supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project**, as the case may be; **and**
- (g) 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

- (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

***Class “B” Documents***

- (i) 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**

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

*Other documentary requirements under RA No. 9184*

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



Suggested form for list of key personnel

Project title: \_\_\_\_\_

Project location: \_\_\_\_\_

Name of bidder: \_\_\_\_\_

Business address: \_\_\_\_\_

List of contractor's key personnel to be assigned to the contract to be bid

Information	Architect/ Engineer	Safety officer	Construction foreman	Skilled mason	Skilled carpenter	Skilled plumber	Skilled electrician	Skilled painter	Laborer
Name									
Address									
Date of birth									
Years of Experience									
Highest education attainment									
Valid PRC license									

Signature over printed name of bidder: \_\_\_\_\_

Notes:

This form must be duly signed and notarized.

Must be supported with key personnel's affidavit of commitment to work on the contract with biodata, and copy of valid license/s (if applicable)

# *Annex 1*

For the purchase of the bidding documents for the said project, please see details below:

Bank Name: **Land Bank of the Philippines**  
**Sagkahan, Tacloban City Branch**  
Bank Account Name: **UP Tacloban College**  
Bank Account Number: **0182-1056-19**

Please take note of the following:

1. LBP to LBP fund transfer and Over-the-Counter Cash Deposit - **amount is credited on the next banking day**
2. Other banks to LBP - **amount is credited within 3-5 banking days** (except when the transfer is done via *Instapay*)

Bidders may email the scanned copy of deposit slip or confirmation slip as proof of payment together with the list of items they are intending to bid to [bacsecretariat.uptacloban@up.edu.ph](mailto:bacsecretariat.uptacloban@up.edu.ph)

**Bids will be declared officially received by the BAC Secretariat only upon validation of the proof of payment by the UPTC Cash Office.** If payment is credited beyond the validation period and the deadline of submission, bids will automatically be declared late and therefore will not be accepted.

For guidance and information of all concerned.

