

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO

Ministry of Transportation and Communications

**Public Bidding No. 24SDF0004
ABC: PhP 19,006,599.27**

**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 contracts, which are the most common in Works contracting.

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

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

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

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

- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project –Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC –Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



Invitation to Bid for Construction of River Landing at Gambar, Mother Kabuntalan, Maguindanao

1. The *Ministry of Transportation and Communications*, through the *Special Development Fund 2022* intends to apply the sum of **Nineteen Million Six Thousand Five Hundred Ninety-Nine and 27/100 Pesos (Php 19,006,599.27)** being the Approved Budget for the Contract (ABC) to payments under the contract for **public bidding no 24SDF0004**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *Ministry of Transportation and Communications* now invites bids for the above Procurement Project. Completion of the Works is required **Two Hundred Eighty (280) Calendar Days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from *Ministry of Transportation and Communications* and inspect the Bidding Documents at the address given below from **8:00 am to 5:00 pm**.
5. A complete set of Bidding Documents may be acquired by interested bidders on **February 28, 2024 – March 19, 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 **Twenty-Five Thousand Pesos Only (Php 25,000.00)**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees it will be presented in person, or through electronic means.
6. The *Ministry of Transportation and Communications* will hold a Pre-Bid Conference¹ on **March 7, 2024 at 9:00 AM** at BLTO Conference Room, BGC, Gov. Gutierrez Avenue, Rosary Heights 7, Cotabato City, and/or through video conferencing/webcasting *via Zoom* 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 **March 19, 2024 at 9:00 AM**. Late bids shall not be accepted.

¹ 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 March 19, 2024 at 9:00 AM at the given address below BLTO Conference Room, NTC Bldg., BGC, Gov. Gutierrez Avenue, Rosary Heights 7, Cotabato City. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The *Ministry of Transportation and Communications* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

Name of Officer : NASGUIB S. UMPAR, JD
Head, IBAC Secretariat
Name of Office : Ministry of Transportation and Communications – BARMM
Address : NTC Building, Bangsamoro Government Center,
Gov. Gutierrez Avenue, RH 7, Cotabato City
Telephone No. : (064) 552-0055
Email Address : [**motcbarmm.proc@gmail.com**](mailto:motcbarmm.proc@gmail.com)

12. You may visit the following websites:

For downloading of Bidding Documents: [**https://motc.bangsamoro.gov.ph**](https://motc.bangsamoro.gov.ph)

MUHAMMAD M. GALO
CHIEF TRANSPORTATION REGULATION OFFICER
Chairperson, Infrastructure Bids and Awards Committee (IBAC)

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, *Ministry of Transportation and Communications* invites Bids for Construction of River Landing at Gambar, Mother Kabuntalan, Maguindanao, with Project Identification Number **24SDF0004**.

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for 2022 in the amount of **P 19,006,599.27**
- 2.2. The source of funding is: Special Development Fund 2022

3. Bidding Requirements

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

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

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

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

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

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

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

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

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

6. Origin of Associated Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address *{[insert if applicable]}* and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and

specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

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

14. Bid Security

14.1. 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**.

14.2. The Bid and bid security shall be valid until *[indicate date]*. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one (1) original copy of the first and second components of its Bid, and is requested to submit additional three (3) photocopies each.

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.

16. 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**.

17. Opening and Preliminary Examination of Bids

17.1. 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.

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

18. Detailed Evaluation and Comparison of Bids

18.1. 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.

18.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.

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.

19. 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**.

20. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause			
5.2	<p>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:</p> <p>The bidder must have completed, five (5) years prior to December 2022 a single contract that is similar to the project at hand and whose value must be at least fifty percent (50%) of the ABC to be bid.</p> <p>Bidders shall include in their Bid a photocopy of Single Largest Completed Contract and the corresponding proof of completion, such as</p> <p>(i) Certificate of Final Acceptance or Completion from the bidder’s client; or (ii) Official Receipt issued by the bidder. (iii) Photos of the declared SLCC Project</p> <p>For this purpose, similar contracts shall refer to contracts which have the same major categories of work as “Construction of River Bank Protection or Rehabilitation and Construction of Ports”</p>		
7.1	<p><i>Portions of Works allowed to be subcontracted:</i></p> <p>Subcontracting is not allowed.</p>	<p><i>Maximum Percentage allowed to be Subcontracted:</i></p> <p>Subcontracting is not allowed.</p>	
10.4	<p>The key personnel must meet the required minimum years of experience and qualifications set below:</p> <p>Please attach justifications such as renewed PRC licenses, biodata, and certificate of trainings as applicable to the required personnel for the contract to be bid.</p>		
	Key Personnel	General Experience	Qualifications/Relevant Experience
	(1) Project Engineer	Five (5) years of experience in construction	With valid Professional and Regulation Commission License
	(1) Material Engineer	Five (5) years of experience in construction	DPWH Accredited Material Engineer

	(1) Safety Officer	Five (5) years of experience as safety officer in construction	With Safety Training Certificate from any training provider accredited by the Department of Labor and Employment (DOLE)																																							
	(1) Construction Foreman	Five (5) years of experience in construction																																								
	(7) Skilled Laborer	Two (2) years of experience in construction																																								
	(16) Unskilled Laborer	Two (2) years of experience in construction																																								
	(1) Structural Engineer	Five (5) years of experience as Structural Engineer in a construction project	PRC License Certification as Structural Engineer																																							
10.5	<p>Please submit proof of ownership, lease or rental and photos of the equipment required for this contract.</p> <p>Failure to submit a copy of the list of minimum major equipment required with proof of ownership/lease/rental or failure to prove the veracity of such shall be a ground for disqualification of the bidder for award.</p> <p>The minimum major equipment requirements are the following:</p> <table border="1"> <thead> <tr> <th>Equipment</th> <th>Capacity</th> <th>Number of Units</th> </tr> </thead> <tbody> <tr> <td>a) Dump Truck</td> <td>12 yd³. minimum</td> <td>2</td> </tr> <tr> <td>b) Payloader</td> <td>1.5 m³, minimum</td> <td>1</td> </tr> <tr> <td>c) Bulldozer</td> <td>167 hp. minimum</td> <td>1</td> </tr> <tr> <td>d) Backhoe</td> <td>0.80 m³, minimum</td> <td>1</td> </tr> <tr> <td>e) Truck mounted Crane</td> <td>5 hp, minimum</td> <td>1</td> </tr> <tr> <td>f) Plate Compactor</td> <td>5 hp, minimum</td> <td>1</td> </tr> <tr> <td>g) One Bagger Mixer</td> <td>4-6 ft³/min, minimum</td> <td>1</td> </tr> <tr> <td>h) Concrete Vibrator</td> <td>5 amp, minimum</td> <td>1</td> </tr> <tr> <td>i) Bar Cutter</td> <td></td> <td>1</td> </tr> <tr> <td>j) Bar Bender</td> <td></td> <td>1</td> </tr> <tr> <td>k) Welding Machine</td> <td>500 amp, minimum</td> <td>1</td> </tr> <tr> <td>l) Cutting Outfit</td> <td></td> <td>1</td> </tr> </tbody> </table>			Equipment	Capacity	Number of Units	a) Dump Truck	12 yd ³ . minimum	2	b) Payloader	1.5 m ³ , minimum	1	c) Bulldozer	167 hp. minimum	1	d) Backhoe	0.80 m ³ , minimum	1	e) Truck mounted Crane	5 hp, minimum	1	f) Plate Compactor	5 hp, minimum	1	g) One Bagger Mixer	4-6 ft ³ /min, minimum	1	h) Concrete Vibrator	5 amp, minimum	1	i) Bar Cutter		1	j) Bar Bender		1	k) Welding Machine	500 amp, minimum	1	l) Cutting Outfit		1
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k) Welding Machine	500 amp, minimum	1																																								
l) Cutting Outfit		1																																								
12	<p><i>Value Engineering Clause:</i></p> <p>Not allowed</p>																																									

15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a. The amount of not less than Three Hundred Eighty Thousand One Hundred Thirty-One and 99/100 Pesos (P380,131.99), if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than Nine Hundred Fifty Thousand Three Hundred Twenty-Nine and 96/100 Pesos (P950,329.96), if bid security is in Surety Bond; or c. Any combination of the foregoing proportionate to the share of form with respect to total amount of security. <p>In lieu of a bid security mentioned above, the bidder may submit a Bid Securing Declaration that is an undertaking which states, among others, that the bidder shall enter in to contract with the procuring entity and furnish the required performance security within ten (10) calendar days, or less, as indicated in the Bidding Documents, from receipt of the Notice of Award, and committing to pay the corresponding fine and be suspended for a period of time from being qualified to participate in any government procurement activity in the event it violates any of the conditions stated therein as required in the guidelines issued by the GPPB.</p> <p>In no case shall bid security or Bid Securing Declaration be returned later than the expiration of the bid validity period indicated in the Bidding Documents, unless it has been extended in accordance with Section 28.2 of the IRR.</p> <p>The Bid Securing Declaration Form is in Section IX. Bidding Form.</p>
19.2	<p>Partial bids:</p> <p>Not allowed</p>
20	<p><i>Other appropriate licenses and permits required:</i></p> <p>None</p>
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.</p>

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

4.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

4.2. If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.

11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	Not Applicable
4.1	The Procuring Entity shall give possession of all parts of the site to the contractor upon commencement of the project.
6	<p>The site investigation reports are: <i>Applicable</i></p> <p>The contractor is required to conduct a site investigation and secure a Certificate of Appearance (CA) duly signed by the Barangay Chairman or Local official member as a proof. The Site Investigation Report/Certificate of Appearance should be attached in the bidding documents with attached picture.</p>
7.2	<p><i>Permanent structures: Fifteen (15) years</i></p> <p>Buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures.</p>
10	Day works are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within ten (10) calendar days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is (1%) of the progress billing.
13	The amount of the advance payment is <i>15% of the contract amount.</i>
14	Applicable.
15.1	The date by which "as-built" drawings are required is 15 days after project completion.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is 5% of the contract amount.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the

latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

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

A. General Requirement

ARTICLE I – Summary of Work

1.1 CONTRACT DOCUMENTS

1.1.1 The contract documents shall consist of documents as stated in the general of the contract.

1.1.1 The intent of this document is to include all labor, materials, appliances and services of any kind necessary for the proper execution of the work.

1.1.2 The contract documents should be considered as one, and whatever is called for by any one of the documents shall be considered as one and whatever is called for by anyone of the documents shall be binding as if called by all.

1.2 WORKED COVERED BY THE CONTRACT DOCUMENT

1.2.1 The Contractor shall undertake the general construction work of the project specified in the contract, subject to all conditions and requirements thereof, and in accordance with the contract documents furnished by the MOTC, in so far as they relate to this project. The contractor shall deliver, furnish, install place and complete any and all necessary materials, plants, tools, appliances and labor to complete the work within the agreed period of time specified in the contract.

1.2.2 The General Contractor shall coordinate all roughing-in required by the mechanical, sanitary and the electrical plans and specification.

1.3 STANDARD OF WORK

1.3.1 All works shall be done to the highest standard of craftsmanship by workmen of their respective trades. All workmen shall be skilled in their trades.

1.4 WORK SEQUENCE

1.4.1 Verification: The contractor shall notify the MOTC Project Engineer if the drawings and specifications are at variance with each other.

1.4.2 Methods and Appliances: The Contractor shall use such methods and appliances for the performance of all the operations connected with the work embraced under the contract as will

produce as satisfactory quality of work and rate progress which in the opinion of the engineers, will ensure the completion of work within the contract time.

If, at any time before the commencement during the progress of the work, such method or appliances appears to the engineers to be inefficient or inappropriate for producing the quality of work and rate of progress, the MOTC Project Engineer may order the contractor to increase the rate of their efficiency, or to improve their system of operation. The contractor must comply such order. Failure however of the engineers to demand such increase of efficiency or improvement of character of methods and appliances shall not relieve the contractor from his obligation to turn out such quality of work and rate of progress as are called for in this contract.

1.4.3 Laying out of Work: the contractor shall lay-out the lines and the grades of the work as per condition set forth under sections which covers Field Engineering of general Requirements.

1.4.4 Inspection of Works: The MOTC Inspection Team shall at all times have access to the work whenever it is in the preparation of progress and the contractor shall provide proper facilities for such access and inspection.

1.4.5 Defective Works: Defective works may be condemned by the MOTC Project Engineer and Inspection Team at any time before the final acceptance of the work, and when such work has been condemned, it shall be taken out immediately by the contractor and rebuilt in accordance with the drawings and specifications.

1.4.6 Increase and Decrease in quantities of work: Adjustments of drawings to suit field conditions which cannot be foreseen at the time of calling for bids, may be necessary during construction. It is the essence of the contract to recognize such changes in the drawings as constituting a normal and expected margins of adjustments, and not involving nor permitting change of modification of contract prices, provided only that resulting overruns and under runs from the quantities in the proposal do not exceed five percent in the case of discrepancy, the matter shall submitted to the MOTC Engineering Division before the adjustments shall be made by the contractor, otherwise it shall be at his own risk and expense.

1.4.7 Certification of Completion of work: Upon due notice from the contractor that he has substantially completed the work, the MOTC Inspection Team shall make an inspection of the project. Substantial completion shall mean that the value of the work completed shall not less than ninety eight percent (98%) of the contract amount and the remaining unfurnished work shall be a minor nature only. As soon as, in the opinion of the MOTC Inspection Team the works shall have been substantially completed, it shall issue a certificate of substantial completion.

1.4.8 Making Good Known Defects and Faults: The contractor shall execute at his own expense all work necessary for making good of known defects, imperfection, or faults as a result of an inspection made by or behalf of the MOTC Inspection Team.

1.4.9 Cleaning Up at Completion of work refer to article 10.1 (cleaning)

1.5 CONTRACTOR USE OF PREMISES

1.5.1 Limitation of Use: The contractor shall confine his apparatus, storage of materials, and the operations of his workmen to limits indicated by law, ordinances, permits or direction of the MOTC Project Engineer and shall not unreasonably encumber the premises with his materials.

1.5.2 Safety of Workmen and engineers: The contractor shall prior to the start of the project secure all the necessary permits and clearances from authorities involved and every workmen shall wear his identification card and appropriate uniform. Likewise, after each day of the work, all materials and equipment shall be properly secured in a safe place.

1.5.3 Safeguard for Structure: The contractor shall not load or permit any parts of the structure to be loaded with the weight that will endanger its safety. The contractor shall enforce the MOTC Project Engineer's instruction regarding sign, advertisement, fires and smoking.

1.5.4 Cleaning: the contractor shall keep the premises free from the accumulation of waste materials and rubbish during the construction period.

ARTICLE 2 - SPECIAL PROJECT PROCEDURES

2.1 SPECIAL PROJECT PROCEDURES

2.1.1 Protection: all existing materials, finishes, structures, utilities, trees, plants, shrubs and the like which has been designated by the contract documents and the instructions of the MOTC Project Engineer to be retained, shall be protected from damage to the same shall be remolded, repaired or replaced by the contractor at no extra expense to the owner.

ARTICLE 3 - COORDINATION

3.1 PROJECTION COORDINATION

3.1.1 The MOTC Project Engineer and Inspection Team shall have the general supervision of the work. They have the authority to stop work necessary to insure its proper execution. They shall certify when payments under the contract are due and the amount to be paid. They shall make the decisions on all claims of the owner or the contractor, which are subjected to the arbitration.

ARTICLE 4 - FIELD ENGINEERING

4.1 GRADES, LINES AND LEVELS

4.1.1 Lot survey: the MOTC Engineering Division shall be responsible for the establishment of the lot lines, boundary lines, easement and benchmarks by a certified surveyor. The MOTC

Engineering Division relegate this responsibility to the contractor, provided the procedures are included in the contract.

4.1.2 Verification: The contractor shall verify all grades, lines, level and dimensions as indicated in the drawings, he shall report any error or inconsistency to the MOTC Engineering Division before commencing work.

4.1.3 Laying Out of Work: All other grades, lines, levels, and benchmark necessary for the prosecution of the work shall be established and maintained by the contractor.

The contractor shall provide and maintain well-built batter boards at all corners, he shall establish benchmarks in not less than two widely separate place.

All stakes, benchmarks, etc., placed by the contractor in laying out work, approved by the MOTC Engineering shall be carefully guarded and preserved by the contractor.

ARTICLE 5 – REGULATORY REQUIREMENTS

5.1 BUILDING CODES

5.1.1 In general, the contractor shall comply with all the laws, city and municipal ordinance and all building codes, rules and regulation, in so far as they binding upon or affect the parties hereto, the work of those engages thereon. He shall also comply with the regulations of firms furnishing utilities such as water, gas, telephone, and electricity for the project.

If the contractor performs any works contrary to such laws, ordinances, rules and regulations, and without such notice to the MOTC engineers, he shall bear all the cost arising there from.

5.2 PERMITS AND TAXES

5.2.1 Permits and Licenses: The permits are secured and paid by the contractor, Expenses to the building permits are included in the contract sum.

5.2.2 Taxes: wherever the law of the place of the project requires a sales, consumer use or other similar tax related or pertinent only to the construction of the project, the contractor shall pay such tax.

ARTICLE 6 – PROJECT MEETINGS

6.1 PROGRESS MEETING

6.1.1 The MOTC Project Engineer and the Contractor or their representatives shall be present at the progress meeting at the project site, with frequently as agreed upon, once the construction has started.

6.1.2 Minute of Meeting: The contractor shall take the minutes of the meetings unless otherwise indicated. The minutes of the meetings shall be signed by the MOTC Project Engineer and the Contractor and shall form part of the construction documents.

6.2 JOBSITE ADMINISTRATION

6.2.1 The contractor shall keep in the project site during the work's progress as competent Project Engineer or Superintendent and any necessary assistants, all satisfactory to the MOTC.

The Project Engineers or Superintendent shall represent to the contractor in his absence and all directions given to him by the MOTC Project Engineer shall be as binding as if given to the contractor. He shall have the full authority to execute orders or directions of the MOTC Project Engineer without delay and promptly supply such materials, tools, plants, equipment and labor as be required.

ARTICLE 7 – SUBMITTALS

7.1 CONSTRUCTION SCHEDULE

7.1.1 The contractor shall furnish the MOTC Engineering with the construction schedule of the project. This schedule shall be updated regularly according to the actual schedule of work.

7.2 NETWORK ANALYSIS AND SCHEDULE

7.2.1 The contractor shall furnish MOTC Engineering with the network analysis schedule, clearly indicating the Critical Path. The Critical Path shall be updated regularly according to the actual schedule of work.

7.3 PROGRESS REPORT

7.3.1 The contractor shall furnish the MOTC Engineering with progress reports following a schedule of work.

7.4 SHOP DRAWING, PRODUCT DATA AND SAMPLES

7.4.1 Shop Drawings: Shop Drawings shall Provide for approval of all fabricated items specified.

7.4.2 Samples: The Contractor shall furnish for approval all samples as directed. The work shall be in accordance with the approved samples. Samples and product data shall be supplied to MOTC Engineering and of workmanship representing artistic techniques specified herein.

7.5 MOCK-UPS

7.5.1 The contractor shall provide mock-up within the project exhibiting final finishes for the approval of the MOTC Engineering before such finished shall be applied in the similar areas of the project.

7.6 LAY-OUT DATA

7.6.1 The contractor shall furnish the MOTC Engineering the actual construction stakes and reference mark lay-out for approval.

7.7 CONSTRUCTION PHOTOGRAPH

7.7.1 If required, the contractor shall furnish the MOTC Engineering with construction photographs.

ARTICLE 8 – CONSTRUCTION FACILITIES

8.1 CONSTRUCTION FACILITIES

8.1.1 Except as otherwise noted, the contractor shall provide and pay for all materials, labor, tools, water, electrical, sanitary facilities, first aid facilities, fire protection and items to complete the work. Rental charges, safety protection and maintenance of rented equipment shall be contractor's responsibility.

8.2 BARRIERS

8.2.1 Temporary fence: The contractor shall furnish and pull all temporary barricades and hoarding necessary for the protection, security, proper prosecution and completion of work.

8.2.2 Trees and other Plants: Existing trees, plants and shrub etc., which are to remain, shall be boxed and otherwise protected from damages.

8.3 SECURITY

8.3.1 The contractor shall provide reliable and competent watchmen to guard the site and premises, from the start of construction operation until project completion.

8.4 CONSTRUCTION SAFETY

8.4.1 These documents do not include the necessary components for construction safety. Safety care of adjacent properties during construction, compliance with the national and local regulation regarding safety shall be the contractor's responsibility.

8.4.2 The contractor shall adequately protect the work, the adjacent properties and the public, and shall be responsible for any damage or injury due to his act of neglect.

8.5 PROJECT IDENTIFICATION AND SIGNS

8.5.1 The contractor shall erect a 1.2 x 2.40-meter sign lettered by a professional painter, identifying the project, the owner, the engineers and the contractor. Location of which shall be on the direction of the MOTC Project Engineer.

8.5.2 All sign boards of contractors, subcontractors, jobbers, and dealers that shall be placed at the project site during the progress of the construction shall be approved by the MOTC Engineering as to size, design and content.

8.6 FIELD OFFICE AND SHEDS

8.6.1 Temporary facilities for protection of workers, materials, tools and equipment shall conform to local regulation and shall be the contractor's responsibility. All cement, lime and other materials affected by moisture shall be stored on platforms and protected from weather. Materials shall be so stored as to ensure preservation of their quality and fitness of the work.

8.7 INSURANCE

8.7.1 The contractor shall secure and maintain contractor's liability insurance and a fire insurance for the project.

ARTICLE 9 - MATERIALS AND EQUIPMENT

9.1 MATERIALS

9.1.1 Trade name materials: whenever items or class of materials is specified exclusively by trade name, by manufacturer's name or by catalogue reference, only such items will be used.

9.1.2 Quality of materials: unless otherwise specified, all materials shall be new. The quality of materials shall be of the best grade of their respective kinds for the purpose.

9.1.3 Defective materials: All materials not conforming to the requirements of these Specifications shall be considered defective and as such shall not be used unless approval is given.

9.2 SUBSTITUTION AND PRODUCTION OPTIONS

9.2.1 Changes or substitution of materials shall not be allowed, unless approval by the MOTC Project Engineer.

ARTICLE 10 – CONTRACT CLOSEOUT

10.1 CLEANING

10.1.1 At the completion of the work, the contractor shall remove from the premises all rubbish, implements and surplus materials and leave the building broom clean. All dirt stains, and the like on all finishing of floors, wall, and ceilings, decorative work, finishing hardware, and fixtures, shall be removed. All woodwork, finishing hardware and metal works shall be cleaned and polished. The exterior shall be hand raked, free of trash or debris.

10.2 PROJECT RECORD DOCUMENTS

10.2.1 As – Built drawings: the contractor shall furnish the MOTC Engineering Division with three copies of complete “as-Built” Drawings, which includes architectural, structural, electrical, sanitary and mechanical plans upon the completion of the project. “As – Built” drawings are drawings showing the system and actual locations of outlets, fixtures, services and equipment that were installed.

10.2.2 Occupancy Permit: the contractor shall obtain the Certificate of final Building Occupancy for the owner.

10.2.3 Certificate of Final Inspection: the contractor shall obtain the certificate of final inspection of electrical, telephone, sanitary, mechanical, water, gas, safety, fire and other utilities for the owner.

10.2.4 Directory of Panel Boards. The contractor shall furnish the MOTC engineers three (3) copies of the directory panel boards and list of circuits.

10.3 WARRANTIES AND BONDS

10.3.1 The contractor shall remedy any defects due to faulty materials or workmanship that appear within a period of one year from the date of completion of the contract. The provisions of this article shall apply to work done by the subcontractors as well as to work done by direct employees of the contractor.

DIVISION 2 – SITE WORKS

2.1 SITE

2.1.1 The site shall be cleared in all directions outside of the building lines. Temporary barricades, guard lights, railings and signs shall be provided and maintained for the whole duration of the work.

2.1.2 Temporary buildings shall be constructed for the housing of the workers, sanitary convenience and material storage. Adequate water and lightning shall be installed.

2.1.3 Clear lines shall be maintained for the whole duration of the work.

2.2 EXCAVATION AND FILLING

2.2.1 All foundation shall be excavated to grades and dimensions indicated in the drawing.

2.2.2 If the required bearing capacity is not obtained at the excavation indicated of the drawings, the excavations shall be continued until such safe bearing power is obtained.

2.2.3 Footing shall not be placed on fill.

2.2.4 Excavations shall be protected from damage of rainwater, spring water and backing of drains. Drainages shall be built for this purpose. Shoring, bracing and sheathing shall be provided for the safety of necessary support for adjoining walls, soil, building and fences.

2.2.5 All excavations shall be backfilled presently as work permits after concrete walls and pipes have attained full design strength.

2.2.6 Materials for filling shall be free from waste and objectionable matters. Filled excavations shall be thoroughly tamped.

DIVISION3 – CONCRETE AND MASONRY WORK:

3.1 PORTLAND CEMENT

3.1.1 Portland cement shall conform to the standard specifications for consignment numbers, dates of dispatch and delivery quantity and dates of use.

3.1.2 At time of use, all cements shall be free flowing and free of lumps. Lumpy or air set cement shall not be used unless the lumps can be crushed to power between fingers and thumb.

3.1.3 Cement delivered in bags shall be stored one well-ventilated waterproof sheds with suitable elevated wooden floors and shall be kept perfectly dry.

3.2 CONCRETE AGGREGATES

3.2.1 Aggregates used in concrete shall conform to the standard specifications for concrete aggregates.

3.2.2 Aggregate failing to meet those specifications but which have shown by approved laboratory tests to produce concrete of the required quality may be used.

3.2.3 Aggregates shall be quarried or washed on fresh water and shall contain not more than one percent silt by weight.

3.2.4 The coarse aggregate of different sizes shall be stored in a separate bunkers or piles in such manners as to prevent aggregation inclusion and contamination by dirt and other foreign materials.

3.3 WATER

3.3.1 Water used in concrete shall be clean, free from oils, alkalis or other matter detrimental to the quality or durability of concrete.

3.3.2 Water shall be stored in tanks and not be allowed or exposed to dust and falling leaves

3.4 REINFORCING STEEL BAR

Steel reinforcing bars shall be of the yield grade in the structural drawings and in the job specifications sheets and conforming to ASTM a615, "Specification for deformed billet. Steel bars for concrete reinforcements specified herein and/or the details on the drawings. Shop drawings are required for all structural steel and shall be submitted to the engineers/ consultant for approval.

3.4.1 Unless otherwise indicated in the plans, reinforcing bars shall be deformed steel bars and shall conform to the requirements of the "specification for billet- Steel bars for concrete reinforcement".

3.4.2 Reinforcing steel shall be transported and stored at the site in such a way as to prevent damage or deterioration of the steel for use in the reinforced concrete.

3.4.3 All reinforcing steel shall be free from mill scale, oil, grease, tar, paint, etc., and loose rust shall be removed before use.

3.4.4 Use G.I wire, gauge No. 16 for binding reinforcing steel bars.

3.4.5 Welded joints shall be done in accordance with the American Welding society.

3.4.6 All reinforcements shall be carefully cut and bent in accordance with the drawings and schedules.

3.5 CONCRETE PROPORTIONS AND CONSISTENCY

3.5.1 The proportions of aggregate to cement for any concrete shall be such as to produce a mixture that will work readily. Concrete proportions for footing shall be 1:2:3 for beams and Columns shall be 1:2:4 and shall produce a concrete strength of $f_c=20.7$ Mpa.

With the placement method used into corners and angles of forms around reinforcements, segregation of materials in the mixtures or collection of excess free water on the surface shall not be permitted. The slump of concrete shall be the minimum that is practicable. When vibrators are used to consolidate concrete, the slump shall not exceed 4 inches; otherwise, the slump shall not exceed 6 inches. Addition of water during hot weather to maintain the same slump must be compensated by adding more cement or retain the correct water-cement ratio.

3.5.2 The method of measuring concrete materials shall be such that proportions can be accurately controlled and easily checked at any time during the work. 28 days concrete strengths shall be tested and shall be proportioned according to the results of the test.

3.6 FORMWORKS

3.6.1 Woods forms shall be sound, smooth, properly seasoned, good quality lumber, free from large, loose knots and otherwise suitable to facilitate finishing exposed concrete surface.

3.6.2 Formworks shall be built to resist distortion or deflection, tight to prevent loss of liquid from the concrete.

3.6.3 Formworks shall be coated with form oil of an approved make and care shall be taken to avoid the spilling of oil on reinforcement.

3.7 MIXING AND POURING OF CONCRETE

3.7.1 Unless otherwise authorized by the supervising engineer, concrete shall be machine mixed at the site.

3.7.2 Concrete shall be thoroughly mixed in a batch mixer of an approved size and type which shall ensure a uniform distribution of the materials throughout the mass, so that the mixer is homogenous and uniform in color.

3.7.3 The first batch of concrete materials placed in the mixer shall contain a sufficient excess of cement, sand and water to cut the inside of the drum without reducing the required mortar content of the mix.

3.7.4 Hand mixing shall only be allowed in case of emergencies and only upon direct supervision of the engineer-in-charge. It must be done in water tight platform.

3.7.5 In preparation for the placing of concrete, all sawdust, chips and other construction debris and all extraneous matter will be removed from the interior of forms, struts and stays.

3.7.6 Temporary discontinuance of pouring shall be referred to the supervising.

3.8 CONCRETE HOLLOWBLOCKS

3.8.1 Materials blocks shall be laid in accordance with the manufacturer's specifications and recommendation. Strength of blocks shall be specified in the drawings or in the specific job requirement sheet.

All concrete hollow blocks to be used are stated in the plans and drawings.

Class B (1:2-1/2:5) Mixtures shall be used for all concrete hollow blocks and shall be reinforced with 12mm dia. RSB at .80 meters O.C vertical, and horizontal at every three layers.

Concrete hollow blocks shall be 700 psi minimum

3.8.2 Grouting

Grout shall be sufficiently fluid to ensure complete filling of all sections of the masonry requiring grout. Grout shall not contain more than 7-1/2 gallons of water per sack of cement. In case of honeycomb on structural members, use pressure - - injected epoxy grout, approved by the structural engineer or the engineer/consultants.

3.8.3 Joints

Unless otherwise specified or detailed on plans, horizontal and vertical mortar joints shall 3/8" or 10mm thick with full mortar coverage on the face shells and wed surrounding the cells to be filled. All joints shall be solidly filled. Furrowing will not be allowed.

3.8.4 MISCELANEOUS METAL WORKS

The work includes the fabrication, erection, painting, including the furnishing of all materials, labor, equipment, plant, and tools required to complete the following metal works.

3.8.4. a Main Gate, Steel Doors, Steel Window, Steel Stair,

The contractor shall be responsible for the accurate location of all steel works including all items used to attach materials to other parts of the work. Obtain measurements for all work required to be accurately fitted at the jobsite and not just from the drawing.

The contractor shall see to it that any and all items of work that are built into works of other trades are installed at the proper time. The contractor shall coordinate the work to other trades to prevent interference.

All steel members shall be joined by welding unless otherwise indicated in the plans and drawings. The welds shall be of size and type indicated and shall be made by competent operators. The above works shall be finished with two coat epoxy enamel after two coats of red oxide.

All materials shall be new and shall meet the requirement of the specification and shall be of their respective kind and approval from the engineer be sought.

Sample of any materials shall be submitted for approval by the engineer before purchasing of such materials and installation be made.

All work under this section shall be done neatly, with all joint, butted and welded. All welds shall be full weld completely filed to produce an even and smooth finish.

ARTICLE 4 – HARDWARE

All material shall be of good quality and well tested brands, any hardware equally good may be used as a substitute only in cases of extreme necessity and subjected to the approval of the supervising engineer and the owner's representative.

The contractor shall verify all dimension and conditions shown in the drawings and specification with those at the site. Any variation which requires physical change shall be brought to the attention of the MOTC Project Engineer. The contractors shall not be given extra payments for conditions which can be determined by examining the project site and contact document.

Other items of hardware, unless to be painted over, that are not to be removed before painting shall be properly masked or completely covered until final cost of the painter's finish has been applied.

ARTICLE 5 – CLEANING UP

Upon completion of the job, it is the duty of the contractor to remove all barricades, scaffoldings, braces, and everything that is not part of the building and stacked to the place designated by the owner or brought some place else outside the jobsite. All the surroundings shall be cleaned from paint spots, dirt, and other unsightly objects. All finished work shall be approved by the Project Engineer of the MOTC. Any position of the work found not satisfactory and not in conformity with standard building practice shall be removed and repaired at no extra cost to the owner before the final turn-over of the building to the owner.

Section VII. Drawings

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

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

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

Daywork Schedule

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

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

Provisional Sums

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

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

Signature Box

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

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

MINISTRY OF TRANSPORTATION AND COMMUNICATIONS

BILL OF QUANTITIES

PROJECT TITLE: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO

LOCATION: GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO

ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT BID COST	AMOUNT
PART A. OTHER GENERAL REQUIREMENTS					
A.1.1(3)	Construction of Field Office for the Engineering	1.00	L.s.		
B.3	Permits & Clearances	1.00	L.s.		
B.5	Project Billboard/Signboard	2.00	Each		
B.7(1)	Occupational Safety & Health Program	12.00	month		
B.9	Mobilization/Demobilization	1.00	L.s		
PART B. EARTHWORKS					
104(5)	Boulder Fill	52.08	cu.m		
800(1)	Clearing & Grubbing	600.00	sq.m		
803(1)a	Structural Excavation (Common Soil)	201.75	cu.m		
804(1)b	Embankment from Common Borrow by Equipment	826.08	cu.m		
804(4)	Gravel Bedding	20.81	cu.m		
PART C. PLAIN & REINFORCED CONCRETE WORKS					
900(1)	Structural Concrete for Column, Beam, Suspended Slab (Class A, 28 Days)	81.97	cu.m.		
900(1)c2	Structural Concrete for, Footing, Grade Slab, and Stair	290.96	cu.m.		
901(1)	Lean Concrete (for manual mixing)	3.94	cu.m.		
902(1)	Reinforcing steel of Reinforced Structure for One Storey Building	35,103.66	kg		
903(2)	Formworks & Falseworks (For one Storey Building)	1,477.50	sq.m.		
1052(5)a	Precast, Prestressed Concrete Piles, furnished (400 mm x 400 mm).	60.00	m		
1052(14)a	Precast Concrete Piles, driven (soft strata)	60.00	m		
1052(6)	Structural Steel Sheet Piles, furnished	1,410.00	m		
1052(12)	Structural Steel Sheet Piles, driven	1,410.00	m		
PART D. ARCHITECTURAL WORKS					
1046	100mm CHB Non-Load Bearing/Load Bearing (Including Reinforcing Steel)	346.36	sq.m.		
1046a	150mm CHB Non-Load Bearing/Load Bearing (Including Reinforcing Steel)	192.36	sq.m.		
1027(1)	Cement Plaster Finish	1,170.21	sq.m.		
1027(3)	Decorative Stone	142.73	sq.m.		
1018(1)	Glazed Tiles and Trims	56.45	sq.m.		
1018	Unglazed Tiles	490.80	sq.m.		
1003(1)	4.5mm Fiber Cement Board on Metal Frame Ceiling	326.16	sq.m.		
1032(1)a	Painting Works (Masonry Painting)	1,496.37	sq.m.		
1032(1)b	Painting Works (Metal Painting)	214.00	sq.m.		
1008	Aluminum Glass Window (Sliding Type)	5.06	sq.m.		
1010(2)a	Hollow Core Flush Door	2.10	sq.m.		
1043(1)	PVC Doors and Frames	4.52	sq.m.		
1003(17)	Carpentry and Joinery (Panolong)	1.00	Ls		
1003(17)	Signage and Logo	1.00	L.s		
1051(1)	Railings	10.00	l.m		
1400(4)	Bollard	8.00	sets		
SPL-2	Passenger Terminal Waiting Chair	15.00	sets		
PART E. FENCING WORKS					
604(1)	Fencing Barbed Wire	90.00	l.m		
604(2)	Fencing Chain Link (Cyclone Wire)	90.00	l.m		
604(3)	Fencing Post (Steel Pipe)	50.00	each		
604(4)	Fencing Frames (Steel Pipe)	252.00	each		
1006	Fencing gate	6.30	sq.m		
PART F. ROOFING AND STRUCTURAL STEEL WORKS					
1013(2)	Fabricated Metal Roofing Accessories (Ridge Roll)	34.90	m		
1014	Pre-painted Metal Sheet Long Span	450.00	sq.m.		
1036(1)a	Polycarbonate	40.00	lm		
1047(2)b	Structural Steel Roof Trusses	1,526.61	kg		
1047(1)	Structural Steel Roof Framing (Canopy)	1.00	L.s		
1047(2)c	Structural Purlins	994.40	kg		
1047(3)b	Metal Structure Accessories (Sagrod)	20.00	pc		
1047(3)c	Metal Structure Accessories (Turnbucke)	56.00	pc		

1047(3)b	Metal Structure Accessories (Crossbracing)	27.00	pc		
PART G. PLUMBING WORKS					
1001(8)	Sewer Line Works	1.00	l.s		
1002(5)	Plumbing Fixtures	1.00	l.s		
1002(6)	Cold Waterline Pipes and Fittings	1.00	l.s		
1001(11)	Septic Vault (Concrete/CHB)	1.00	l.s		
PART H. ELECTRICAL WORKS					
1100(30)	Conduits, Boxes & Fittings, Conduit Works/Conduit	1.00	l.s		
1100(42)	Rough-in"	1.00	l.s		
1102	Wires and Wiring Devices	1.00	l.s		
1103(1)	Panel Board with Main Breaker/Branches	1.00			
1106(1)	Lighting Fixtures	1.00	l.s		
PART I. MECHANICAL WORKS					
1200	Air Conditioning & Refrigeration System	1.00	l.s		
TOTAL					

AMOUNT IN WORDS: _____

SUBMITTED BY: _____
 (Name of Firm)

Signing Authority: _____
 (Printed Name and Signature)

Designation: _____
 Date: _____

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

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

Technical Documents

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules;
and
- (h) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**
- (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- (j) Project Requirements, which shall include the following:
 - a. Organizational chart for the contract to be bid;
 - b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
 - c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
- (k) Original duly signed Omnibus Sworn Statement (OSS);

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

Financial Documents

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

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

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

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

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines² for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

² currently based on GPPB Resolution No. 09-2020

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

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

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

Omnibus Sworn Statement (Revised)
[shall be submitted with the Bid]

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

AFFIDAVIT

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

1. *[Select one, delete the other:]*

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

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

2. *[Select one, delete the other:]*

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

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

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

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

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

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

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

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

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

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

Statement of Availability of Key Personnel and Equipment

(Date of Issuance)

ATTY. PAISALIN P. TAGO, CPA

Minister

Ministry of Transportation and Communications RH7, Bangsamoro Government Compound
Cotabato City

Attention : The Chairman

Bids and Awards Committee

Dear Sir / Madame:

In compliance with the requirements of the (Name of the Procuring Entity) BAC for the bidding of the (Name of the Contract), we certify that (Name of the Bidder) _____ has in its employ key personnel, such as project managers, civil engineers, architect, materials engineer and safety officer, who may be engaged for the construction of the said contract.

Further, we likewise certify the availability of equipment that (Name of the Bidder) owns, has under lease, and/or has under purchase agreements, that may be used for the construction contracts.

Very truly yours,

(Name of Representative) (Position)

(Name of Bidder)

List of Equipment Owned (please see Invitation to Bid), assigned to the Proposed Contract

Business Name _____

Business Address _____

Description	Model/Year	Capacity/ Performance/size	Plate No.	Motor no./ Body no.	Location	Condition	Proof of Ownership

List of minimum equipment required for the project:

Submitted by:

(Printed Name & Signature)

Designation:

Date: _

Qualification of Key Personnel Proposed to be Assigned to the Contract

Business Name : _____

Business Address : _____

	Project Engineer	Material Engineer	Safety Officer	Structural Engineer	Construction Foreman	Skilled Laborer	Unskilled Laborer
1 Name							
2 Address							
3 Date of Birth							
4 Employed Since							
5 Experience							
6 Previous Employment							
7 Education							
8 PRC License							

Minimum Requirements:

- : Project Engineer
- : Material Engineer
- : Safety Officer
- : Structural Engineer
- : Construction Foreman

- : Skilled Laborer
- : Unskilled Laborer

Note: Attached individual resume, PRC License of the (professional) personnel, Certificate of DPWH Accreditation, Certification as Structural Engineer and Certificate of Trainings from any training institutions recognized by the Department of Labor and Employment (DOLE) for Safety Officer.

Designation : _____

Date : _____

Statement of all Completed Government & Private Construction Contracts which are similar in nature

Business Name : _____
 Business Address : _____

Name of Contract	a. Owner Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role		a. Amount at Award b. Amount at Completion c. Duration	a. Date Awarded b. Contract Effectivity c. Date Completed
			Description	%		
<u>Government</u>						
<u>Private</u>						

- Note: This statement shall be supported with:
- 1 Contract
 - 2 CPES rating sheets and/or Certificate of Completion
 - 3 Certificate of Acceptance

Designation : _____
 Date : _____



Republic of the Philippines
MINISTRY OF TRANSPORTATION & COMMUNICATION
OFFICE OF THE MINISTER

BARMM
COTABATO CITY



DETAILED ENGINEERING DESIGN FOR
**CONSTRUCTION OF RIVER LANDING AT
GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO**

CHECKED & SUBMITTED BY:

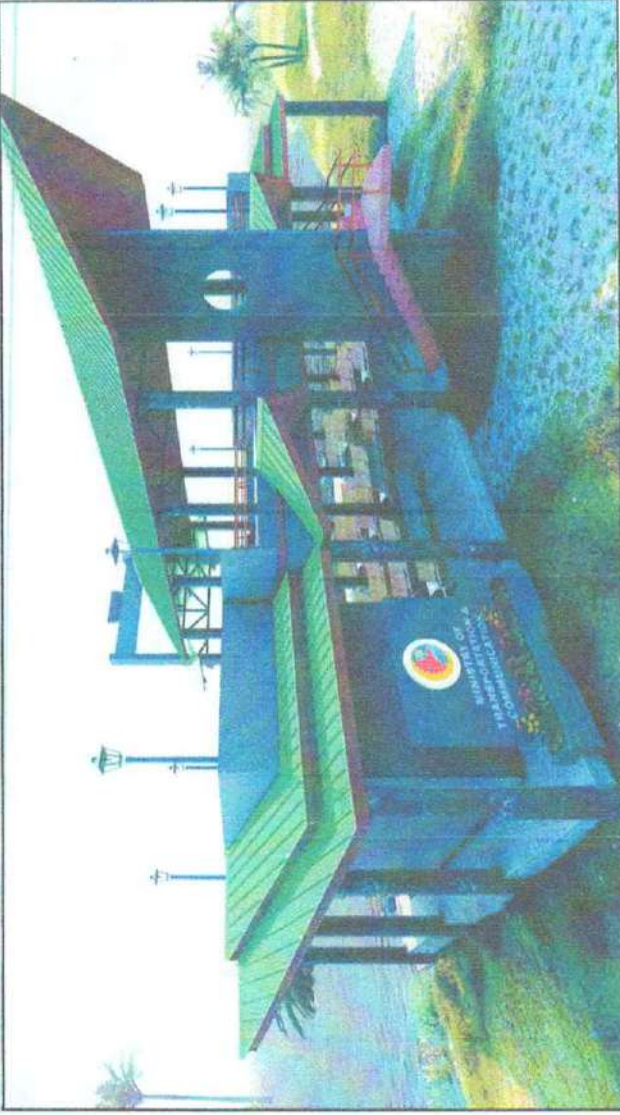

ENGR. NASRODIN B. MASAKAL
ENGINEER V

RECOMMENDING APPROVAL BY:


ATTY. ROSLAINE L. MACAO-MANIRI
DIRECTOR GENERAL

APPROVAL BY:


ATTY. PAISALIN P. TAGO, CPA
MINISTER



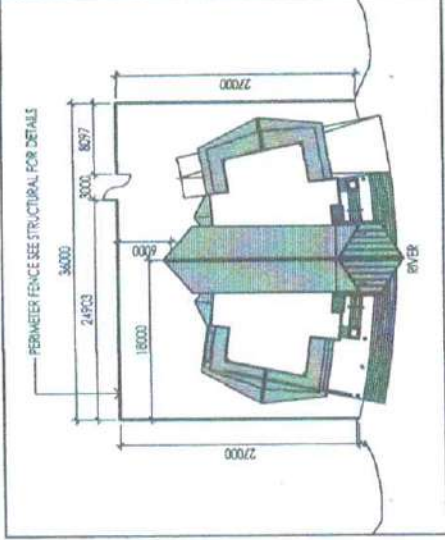
A PERSPECTIVE VIEWS
SCALE: NTS

TABLE OF CONTENT

ARCHITECTURAL	
AR-00	PERSPECTIVE VIEW, VICINITY MAP, MASTER SITE DEVT PLAN
AR-01	NOTES & SYMBOL
AR-02	GROUND FLOOR PLAN
	ROOF DECK PLAN
	ROOF PLAN
AR-03	ELEVATIONS
AR-04	SECTIONS
AR-05	STAIR DETAILS
AR-06	TOILET & WASH DETAILS
AR-07	DOORS & WINDOWS SCHEDULES
AR-08	DETAILS



B LOCATION / VICINITY MAP
SCALE: NTS



C SITE DEVELOPMENT PLAN
SCALE: 1:500M

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE CITY / MUNICIPALITY
ENGINEER / BUILDING OFFICIAL
DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

SANITARY

DATE:

ELECTRICAL


















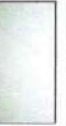









DATE:

MECHANICAL

<p>Office of the Minister MINISTRY OF TRANSPORTATION & COMMUNICATION SAMAR</p>	<p>PROJECT LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT: VICINITY MAP, SITE DEVELOPMENT PLAN, AND TABLE OF CONTENT</p>	<p>PREPARED BY: JALIE M. MALOMALD ARCHITECT I</p>	<p>CHECKED AND REVIEWED BY: ENGR. ASSAF D. ALABAR ENGINEER II</p>	<p>DESIGNING APPROVAL BY: ENGR. WASHINGTON B. MASANA ENGINEER</p>	<p>APPROVED BY: Atty. Pansalun P. Tang, CPA ATTY. ROSA L. MACAO-MANIR DIRECTOR GENERAL</p>	<p>SHEET NO. AR-00</p>		
	<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER SAMAR COTABATO CITY</p>	<p>REPUBLIC OF THE PHILIPPINES OFFICE OF THE CITY / MUNICIPALITY ENGINEER / BUILDING OFFICIAL DISTRICT / CITY / MUNICIPALITY</p>	<p>LAND USE & ZONING</p>	<p>LINE & GRADE</p>	<p>ARCHITECTURAL</p>	<p>SANITARY</p>	<p>DATE:</p>	<p>ELECTRICAL</p>	<p>DATE:</p>

ARCHITECTURAL

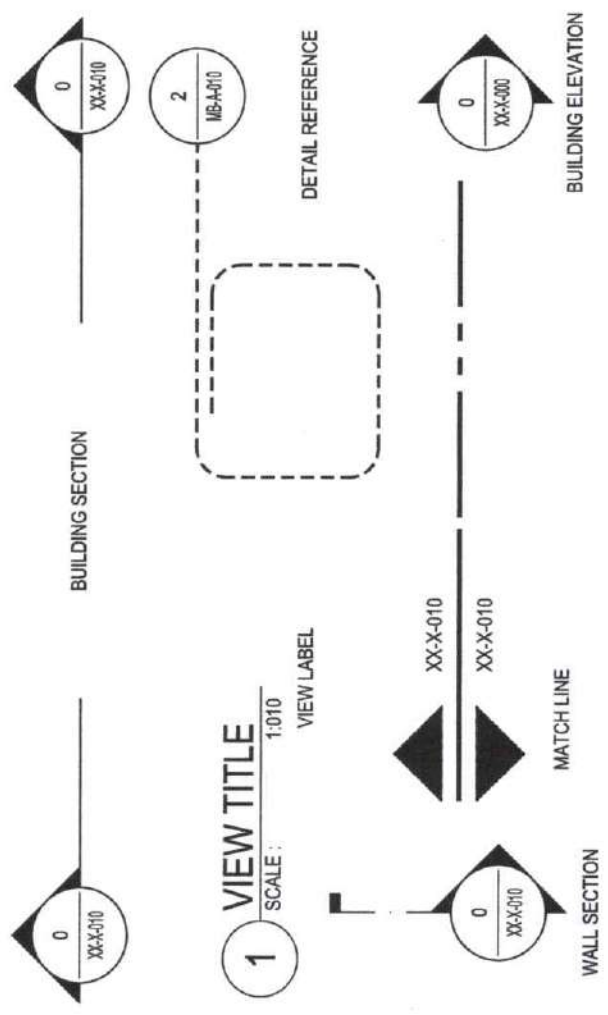
STANDARD HATCHES

	PLAIN CONCRETE		PLASTER (SECTIONS)		INSULATION		LEATHER
	R. CONCRETE		COMPACTED SOIL		WATER		STONE (ELEVATIONS)
	MASONARY, CMU		GRAVEL / PEBBLES		PLYWOOD		Mosaics
	STONE (SECTION)		SPANISH TILES		WOOD (ELEVATION)		DEMOLISHMENT WALLS
	STEEL (SECTION)		GLASS (ELEVATIONS)		WOOD (ELEVATION)		EXISTING WALLS
	METAL (ELEVATION)		WAVY GLASS (ELEVATIONS)		HARD WOOD (SECTION)		PAINT (ELEVATIONS)
	SAND		GLASS (SECTIONS)		GRC / GRP		

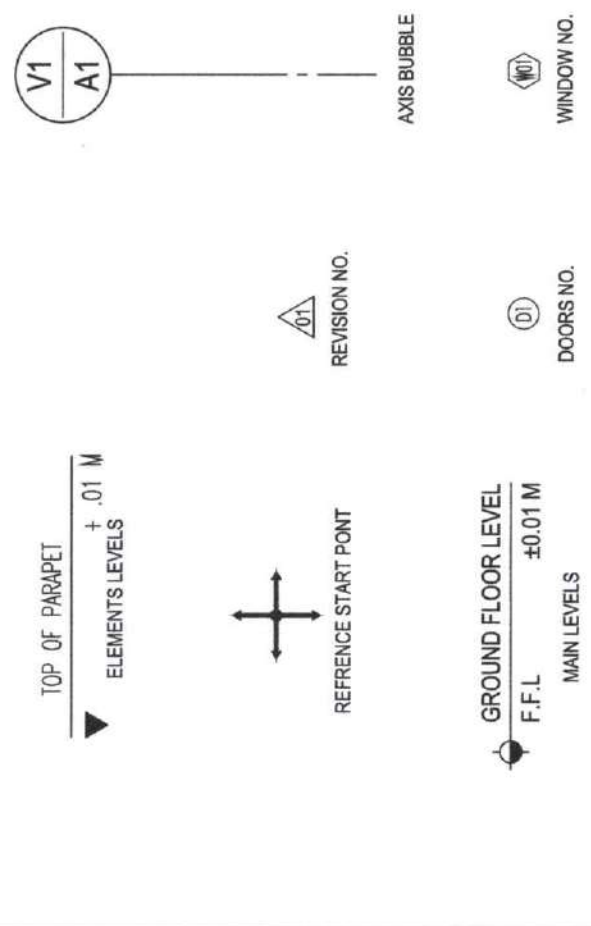
ABBREVIATIONS:


F.F.L.	FINISH FLOOR LEVEL	T.O.R.L.	TOP OF RAILING
T.O.P.	TOP OF PARAPET	T.O.S.W.	TOP OF SIDEWALK
T.O.W.	TOP OF WALL	T.S.	TOP OF SAND
T.P.W.	TOP OF PLANTER WALL	FD	FLOOR DRAIN
T.O.S.	TOP OF STRUCTURE SLAB	R.W.O.	RAIN WATER OUTLET
T.O.L.	TOP OF SOIL	O.T.S.	OPEN TO SKY
W.F.	WATER FEATURE		

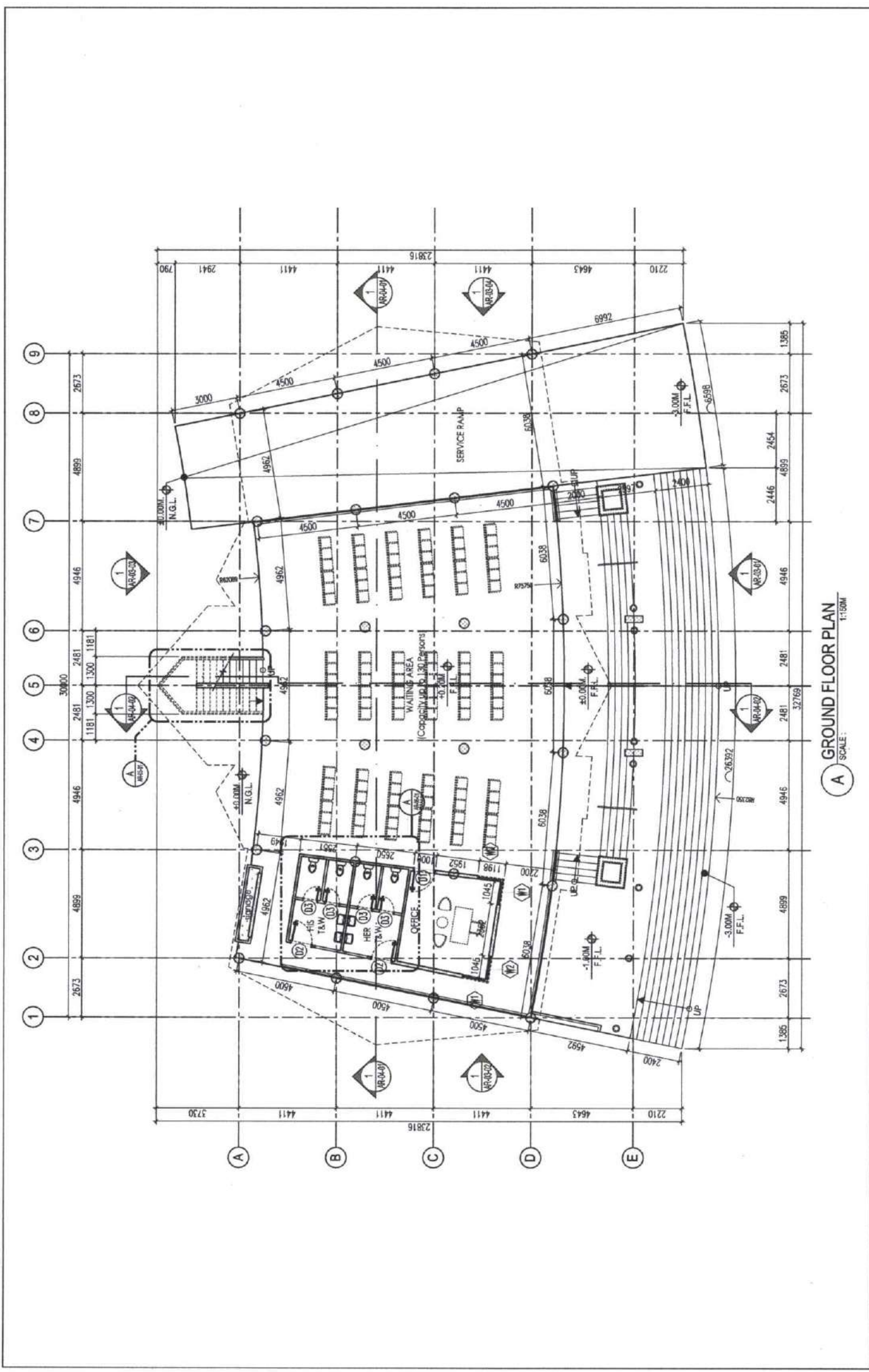
CALL OUTS



ANNOTATIONS

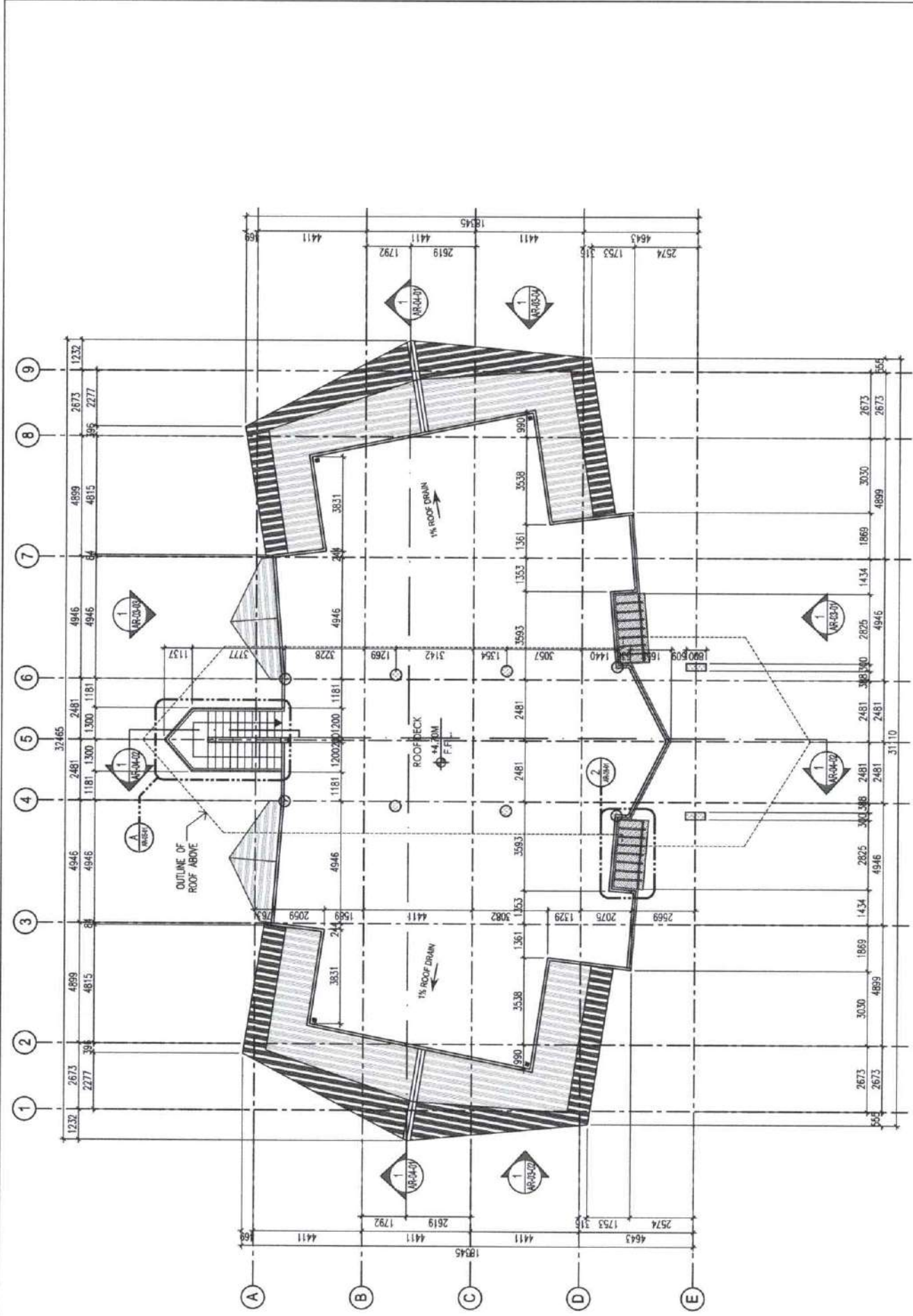


 <p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER E-ARMY COTACAP-CITY</p>	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT: NOTES & SYMBOL</p>	<p>PREPARED BY: JALIL M. WACHIDHALO ARCHITECT</p>	<p>CHECKED AND REVIEWED BY: ENGR. AGNIFHA D. ALIAGGAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. NASROOH B. MASAKAL ENGINEER</p>	<p>SHEET NO. AR-01 01</p>
	<p>BY SAME ARTICLE IN SECTION 3B I hereby certify that the design and construction of the project is in accordance with the approved plans and specifications. I am not responsible for any errors or omissions in the project or any other matters that may arise from the use of the drawings or any other documents prepared for the project. I am not responsible for any claims or damages arising from the use of the drawings or any other documents prepared for the project.</p>					


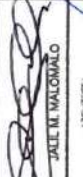




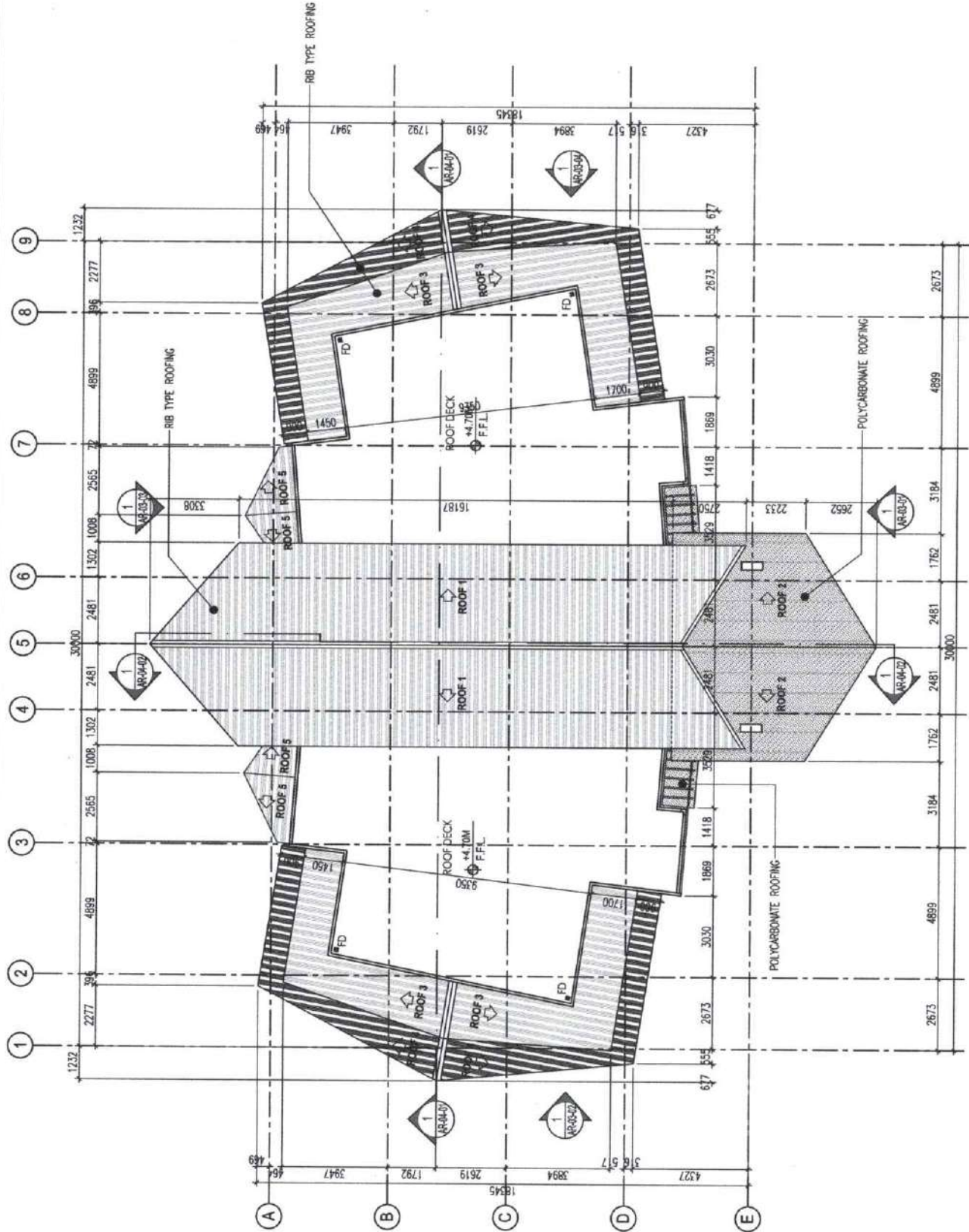
A GROUND FLOOR PLAN
SCALE: 1:150M

	<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARAIN COTABATO CITY</p>	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT: FLOOR PLAN</p>	<p>REVISIONS AND NOTES: Changes and Specifications in other Contract Documents shall apply except to the extent of the Contract Documents. The Architect's and Documents of the contract, unless noted otherwise, shall be considered as part of the contract. It shall be a condition of the contract that all documents to which the contractor is bound shall be prepared by the contractor and shall be submitted to the architect for approval. The contractor shall be responsible for the accuracy of the information submitted to the architect.</p>	<p>PREPARED BY: JULL M. MALOMALO ARCHITECT</p>	<p>CHECKED AND REVISED BY: ENGR. ASMIFHA D. ALIASGAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. NASROON B. MASZUDAL ENGINEER V</p>	<p>SHEET NO. AR-02 01</p>
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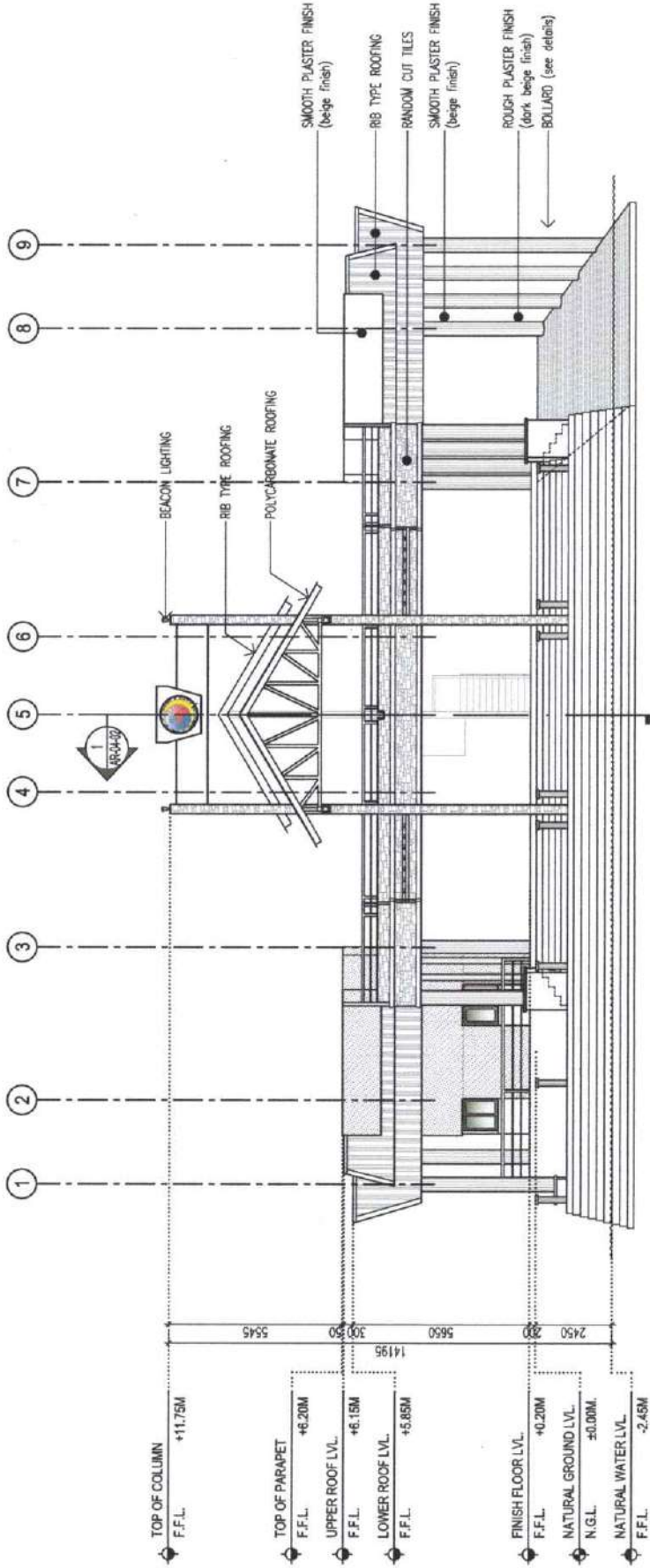
A ROOF DECK PLAN
SCALE: 1:150M

 <p> Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARRIO COTABATO CITY </p>	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT: FLOOR PLAN</p>	<p>REVISION AND/OR INSTRUCTIONS: All drawings and specifications are subject to the approval of the Engineer. The Engineer is not responsible for any errors or omissions in the drawings and specifications, whether made in part or in whole, without the written consent of the Architect or Author of said documents.</p>	<p>PREPARED BY:  JALIE M. WALONAL ARCHITECT</p>	<p>CHECKED AND REVIEWED BY:  ENGR. ANITA Q. ALMAGAR ENGINEER</p>	<p>SUBMITTED BY:  ENGR. JASMIN B. MASARAK ENGINEER</p>	<p>SHEET NO. AR-02 02</p>
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A ROOF PLAN
SCALE: 1:150M

<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BUREAU OF BUILDING CONSTRUCTION COTABATO CITY</p>	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT: FLOOR PLAN</p>	<p>REMARK ARTICLE IV SECTION 33 Drawings and Specifications and other Contract Documents shall be read and construed as a unit and shall be interpreted as the Architect's intent. Documents of the Architect, without the subject to which they refer are inoperative if not so read and shall be amended to conform to such interpretation. Copies of said Documents for use in the location of and for other projects or buildings, whether executed partly or in whole, without the written consent of the Architect or Author of said Documents.</p>	<p>PREPARED BY: ARCHITECT JANICE W. MACDONALD</p> <p>CHECKED AND REVIEWED BY: ENGINEER ENGR. JASPHIA D. ALJASGAR</p>	<p>DESIGNED BY: ENGINEER ENGR. ALBERTO B. AMADOR</p>	<p>SHEET NO. AR-02 03</p>
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1 FRONT ELEVATION
SCALE: 1:150M



Republic of the Philippines
MINISTRY OF TRANSPORTATION & COMMUNICATION
OFFICE OF THE MINISTER
BARANGAY
COTABATO CITY

PROJECT & LOCATION:
CONSTRUCTION OF RIVER LANDING AT
GAMBAR, MOTHER KABUNTALAN,
MAGUINDANAO

SHEET CONTENT:
ELEVATION

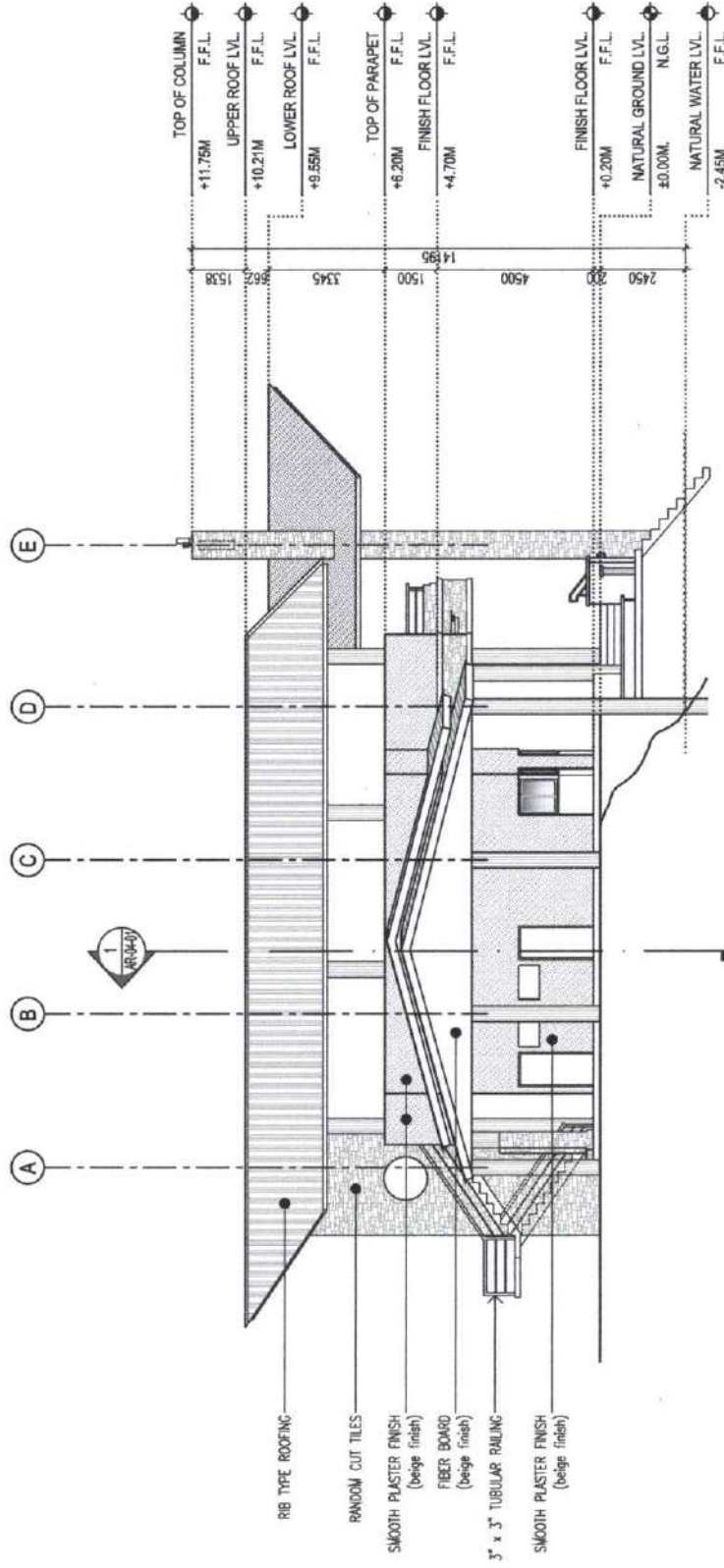
REMARK: APPLICABLE INSTRUCTIONS:
Changes and Specifications and other Contract Documents shall prevail over the drawings. If there is a discrepancy between the Contract Documents and the drawings, the Contract Documents shall prevail. The Contractor shall be responsible for the accuracy of the drawings and documents. It is recommended that the Contractor consult with the Architect for any queries or clarifications. The Contractor shall be responsible for the accuracy of the drawings and documents. It is recommended that the Contractor consult with the Architect for any queries or clarifications. The Contractor shall be responsible for the accuracy of the drawings and documents. It is recommended that the Contractor consult with the Architect for any queries or clarifications.

PREPARED BY:
JULIETTE MALONIANO
ARCHITECT

CHECKED AND REVIEWED BY:
ENGR. ASHIFHA D. ALIASSGAR
REGISTERED

SUBMITTED BY:
ENGR. NASROUDDIN M. MASBAROL
REGISTERED

SHEET NO.:
AR-03
01



1 RIGHT SIDE ELEVATION
SCALE: 1:150M



Republic of the Philippines
MINISTRY OF TRANSPORTATION & COMMUNICATION
OFFICE OF THE MINISTER
BARANGAY
COTABATO CITY

PROJECT & LOCATION:
CONSTRUCTION OF RIVER LANDING AT
GAMBAR, MOTHER KABUNTALAN,
MAGUINDANAO

SHEET CONTENT:
ELEVATION

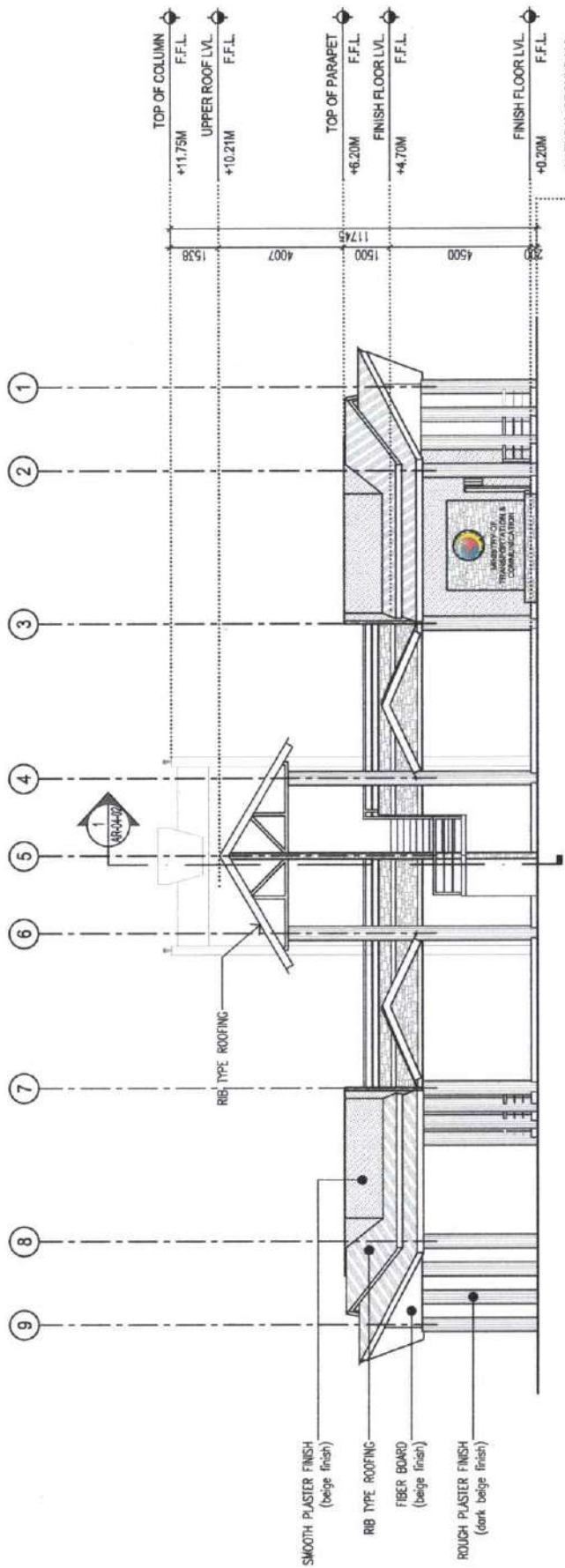
FOR YOUR INFORMATION: Drawings and Specifications are other Contract Documents, such as General and Particular Conditions of Contract, as the Architectural Program and Documents of the Architect, under the subject for which they are made. It is recommended that all copies of said Documents be used in the execution of any work or process of buildings, whether executed partly or in whole, without the written consent of the Architect or Author of said Documents.

PREPARED BY:
JULIUS M. MICHANES, D.
ARCHITECT

CHECKED AND REVIEWED BY:
ENGR. SHARIFA D. ALJASGAR
ENGINEER III

SUBMITTED BY:
ENGR. HARRODIN S. MASAPAL
ENGINEER

SHEET No.
AR-03
02



1 REAR ELEVATION
SCALE: 1:150M



Republic of the Philippines
MINISTRY OF TRANSPORTATION & COMMUNICATION
OFFICE OF THE MINISTER
BARANGAY
COTABATO CITY

PROJECT & LOCATION

CONSTRUCTION OF RIVER LANDING AT
GAMBAR, MOTHER KABUNTALAN,
MAGUINDANAO

SHEET CONTENT:

ELEVATION

PA MODEL ARTICLE PROVISION 30

Changes and Specifications and other Contract Documents which require interpretation or modification in the performance of Services, are the Intellectual Property and Documents of the Architect, whether the subject matter hereon or made is contained in or not. It shall be unlawful for any person to duplicate, reproduce, copy or use said Documents for use in the execution of any other project or building, whether executed partly or in whole, without the written consent of the Architect or Author of said Documents.

PREPARED BY:

JULIE HEI MARICORDALO
ARCHITECT

CHECKED AND REVIEWED BY:

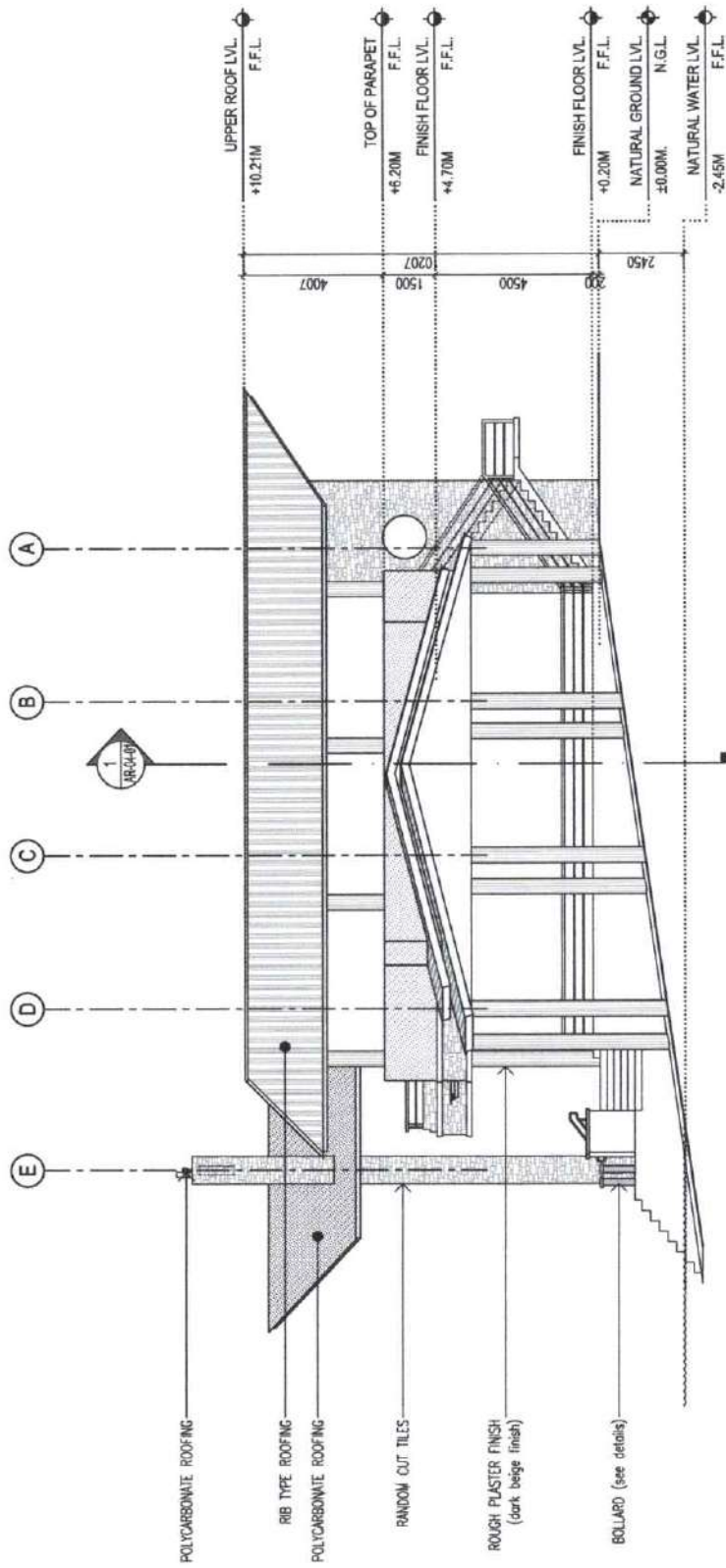
ENGR. ASHMITHA D. ALJASGAR
REGISTERED

SUBMITTED BY:

ENGR. HARROD B. TRISAKUL
REGISTERED

SHEET No.

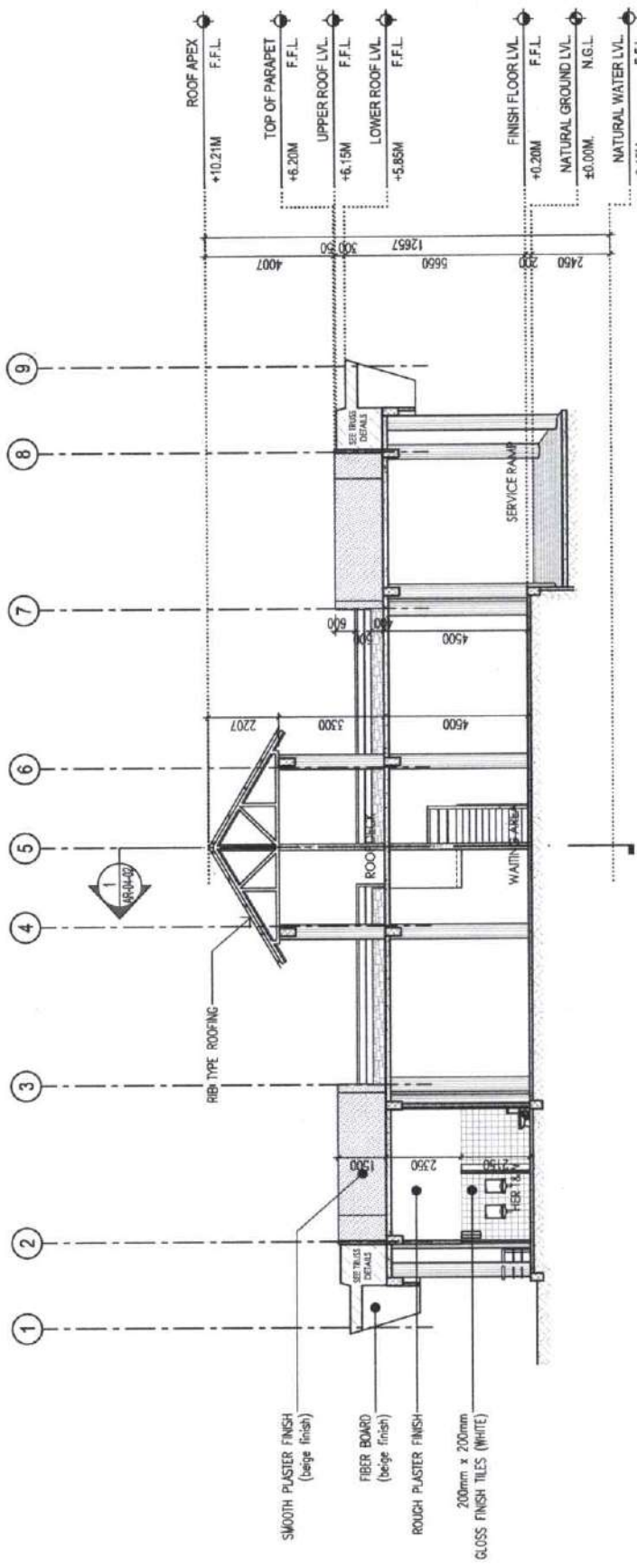
AR-03
03



1 LEFT SIDE ELEVATION
SCALE: 1:150M

 <p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARANGAY COTABATO CITY</p>	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENTS: ELEVATION</p>	<p>PREPARED BY: JACQUELINE MALCOLM ARCHITECT</p>	<p>CHECKED AND REVIEWED BY: ENGR. ABRIFFA D. ALIANGAR ENGINEER II</p>	<p>SUBMITTED BY:  ENGR. MARICELENE MASAKAL ENGINEER V</p>	<p>5-SHEET 1/6 AR-03 04</p>
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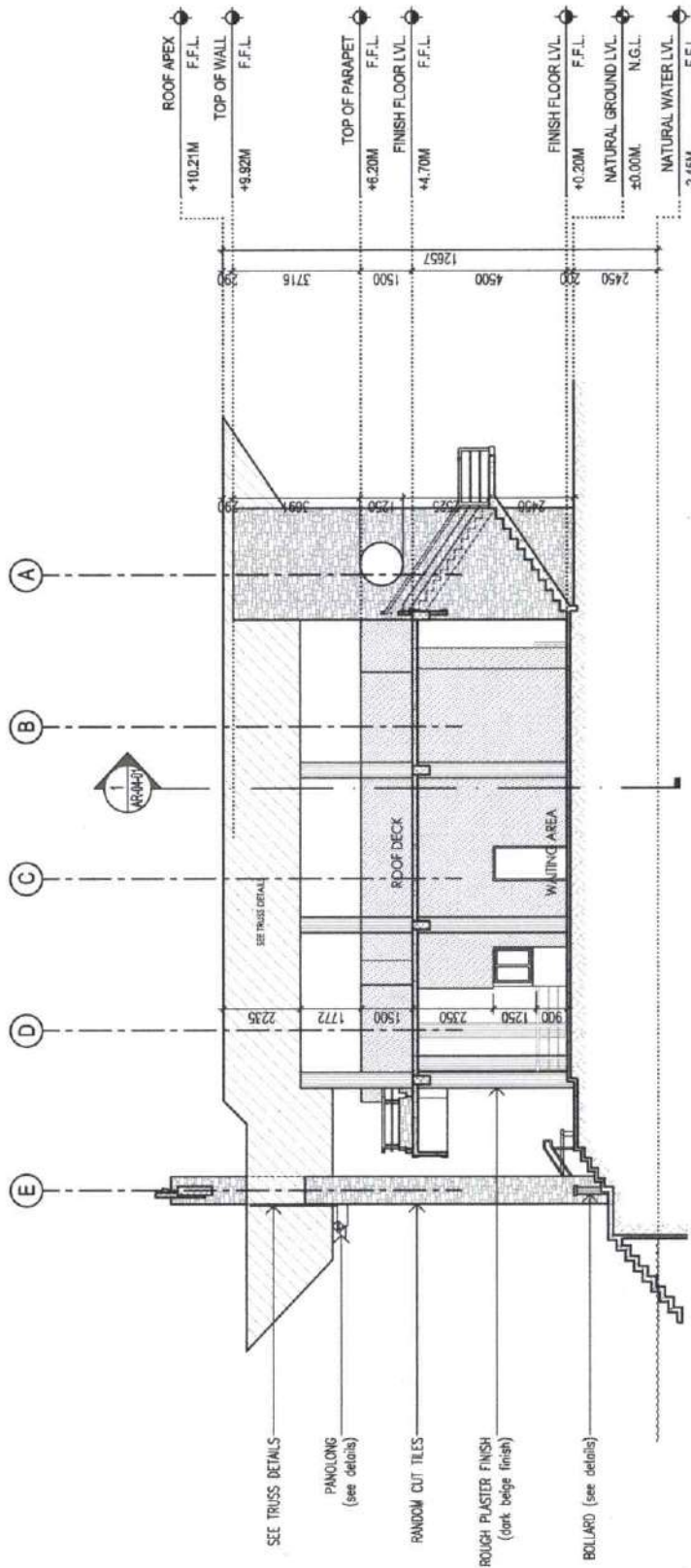
DISCLAIMER
Drawings and Specifications are the property of the Architect. They are to be used only for the project and location specified. They are not to be used for any other project or location without the written consent of the Architect or his/her Associates.



1 SECTION A
SCALE: 1:150M

	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENTS: SECTION</p>	<p>DESIGNED BY: JACINTO MALONDULO ARCHITECT</p>	<p>CHECKED AND REVIEWED BY: ENGR. ASIMPHA D. ALIAGAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. MASROOQ B. MASAKAL ENGINEER</p>	<p>SHEET No. AR-04 01</p>
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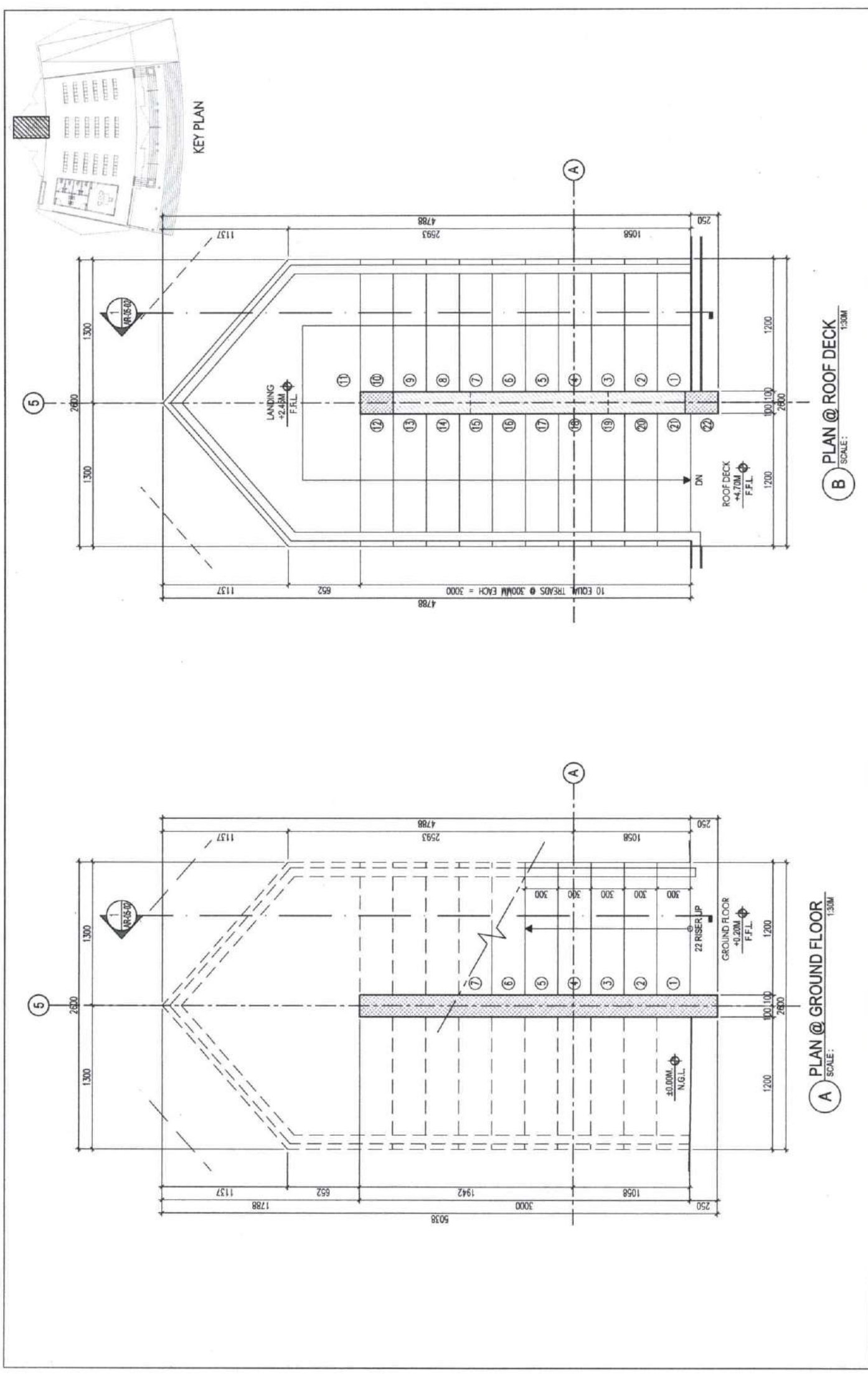
IN USE: ARCHITECT SECTION B
Changes and Specifications and other Contract Documents shall apply. Samples or models, in accordance with the contract, shall be prepared by the contractor. The contractor shall be responsible for the accuracy of the drawings and shall be liable for any errors. The contractor shall be responsible for the accuracy of the drawings and shall be liable for any errors. The contractor shall be responsible for the accuracy of the drawings and shall be liable for any errors.



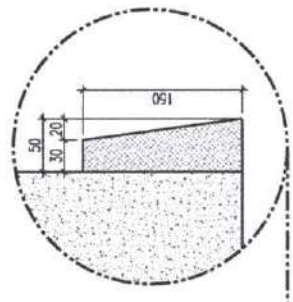
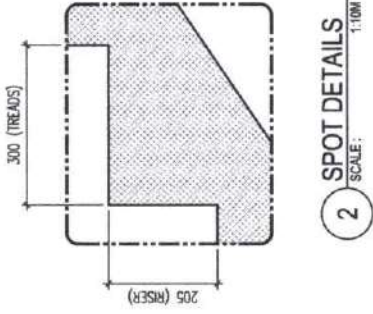
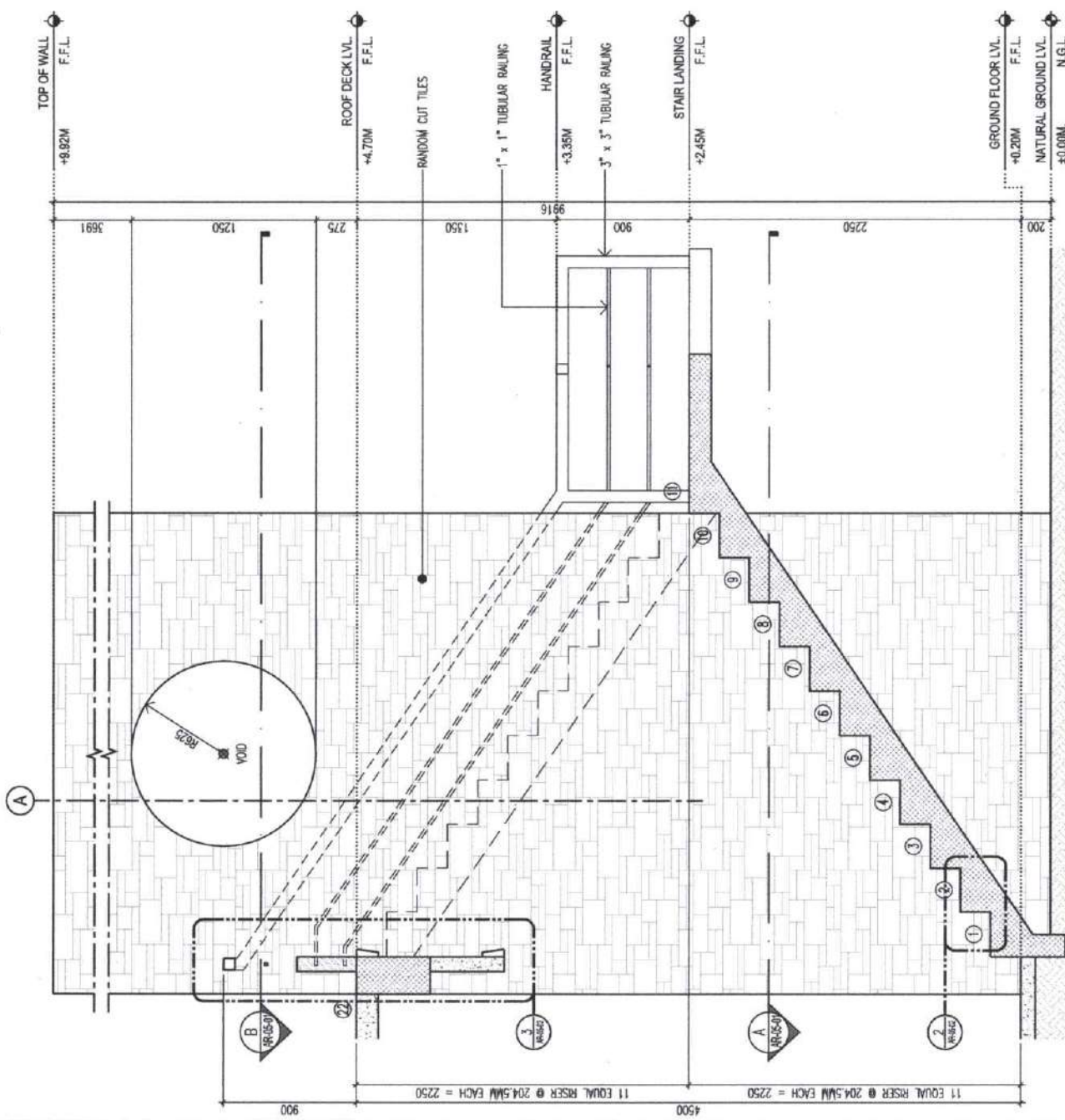
1 SECTION B
SCALE: 1:150M

	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENTS: SECTION</p>	<p>PREPARED BY: PAUL M. MALDINALO ARCHITECT I</p>	<p>CHECKED AND REVIEWED BY: ENGR. ASHFA D. ALIASGAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. NASRUDIN B. MASAKAL ENGINEER IV</p>	<p>SHEET No. AR-04 02</p>
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INFORM APPLICABLE SECTION 30
Changes and Specifications in these Contract Documents shall be made in writing and shall be made in accordance with the provisions of the Contract Documents of the Architect, with the object for which they are made in a separate sheet. It shall be invalid for any person to duplicate or copy or to change or alter in any way the original of any of the original copies of said Documents for use in the preparation of and for other projects or buildings, whether executed jointly or in whole, without the written consent of the Architect or Author of said Documents.



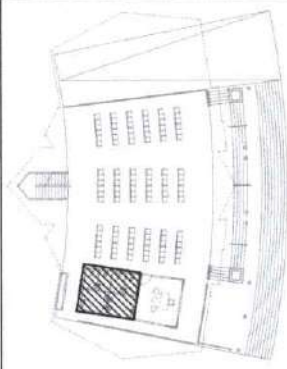
<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARMM COTABATO CITY</p>	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT: STAIR DETAILS</p>	<p>DATE: APRIL 24, 2023</p> <p>PREPARED BY: JULL M. MALOMALO</p> <p>ARCHITECT I</p>	<p>CHECKED AND REVIEWED BY: ENGR. ASKIPHA Q. ALIAGAR</p> <p>PLANNER II</p>	<p>SUBMITTED BY: ENGR. MASRODIN B. MASAKAL</p> <p>ENGINEER</p>	<p>SHEET No: AR-05 01</p>
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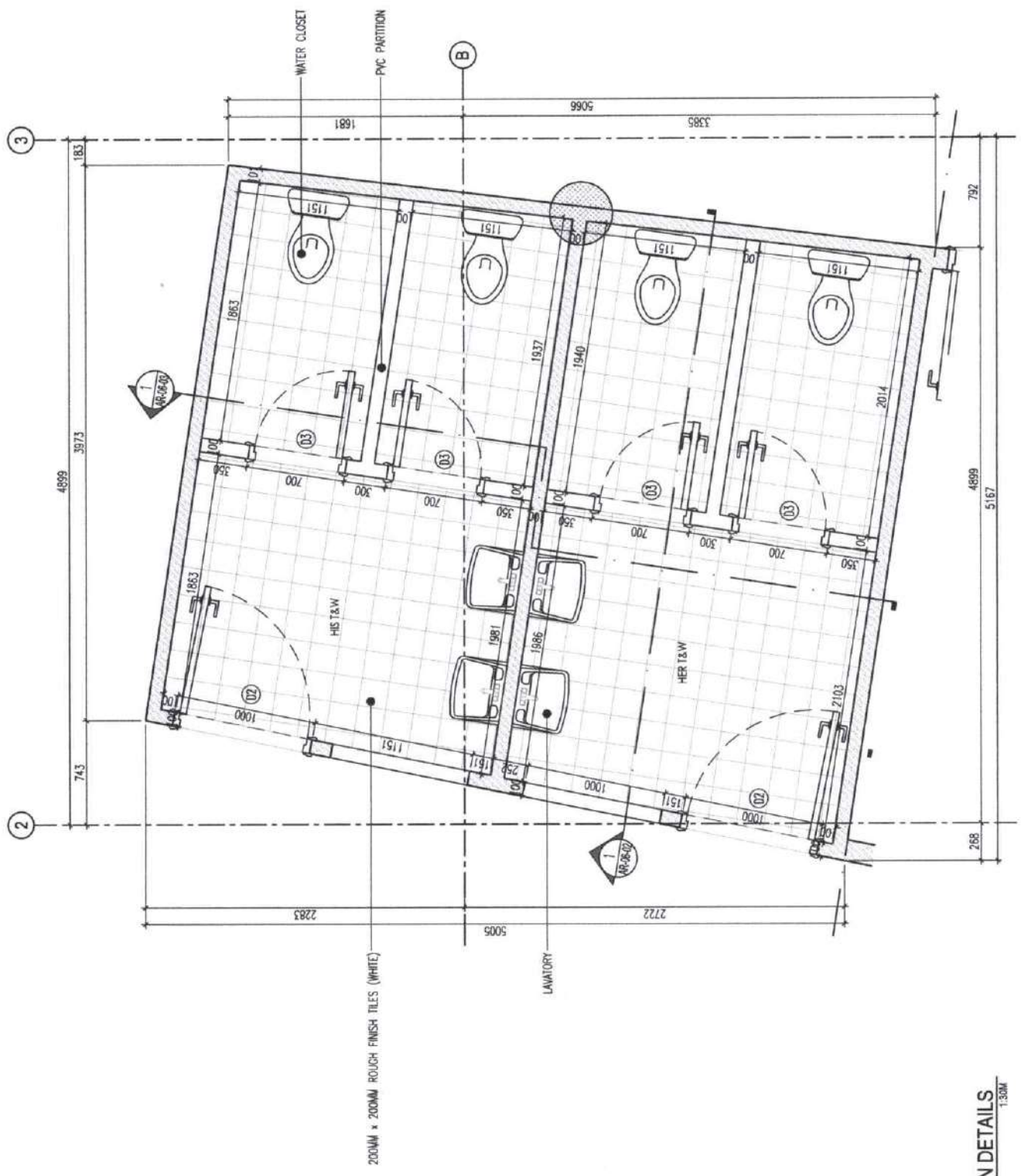
1 SECTION DETAILS
SCALE: 1:30M

	PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO	SHEET NO.:	AR-05 02
	SHEET CONTENT: STAIR DETAILS	PREPARED BY: JALI M. MALONZO ARCHITECT	CHECKED AND REVIEWED BY: ENGR. ASHAFIA D. ALASGAR ENGINEER

IN CASE OF DISCREPANCY BETWEEN THE DRAWING AND THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS, THE SPECIFICATIONS SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



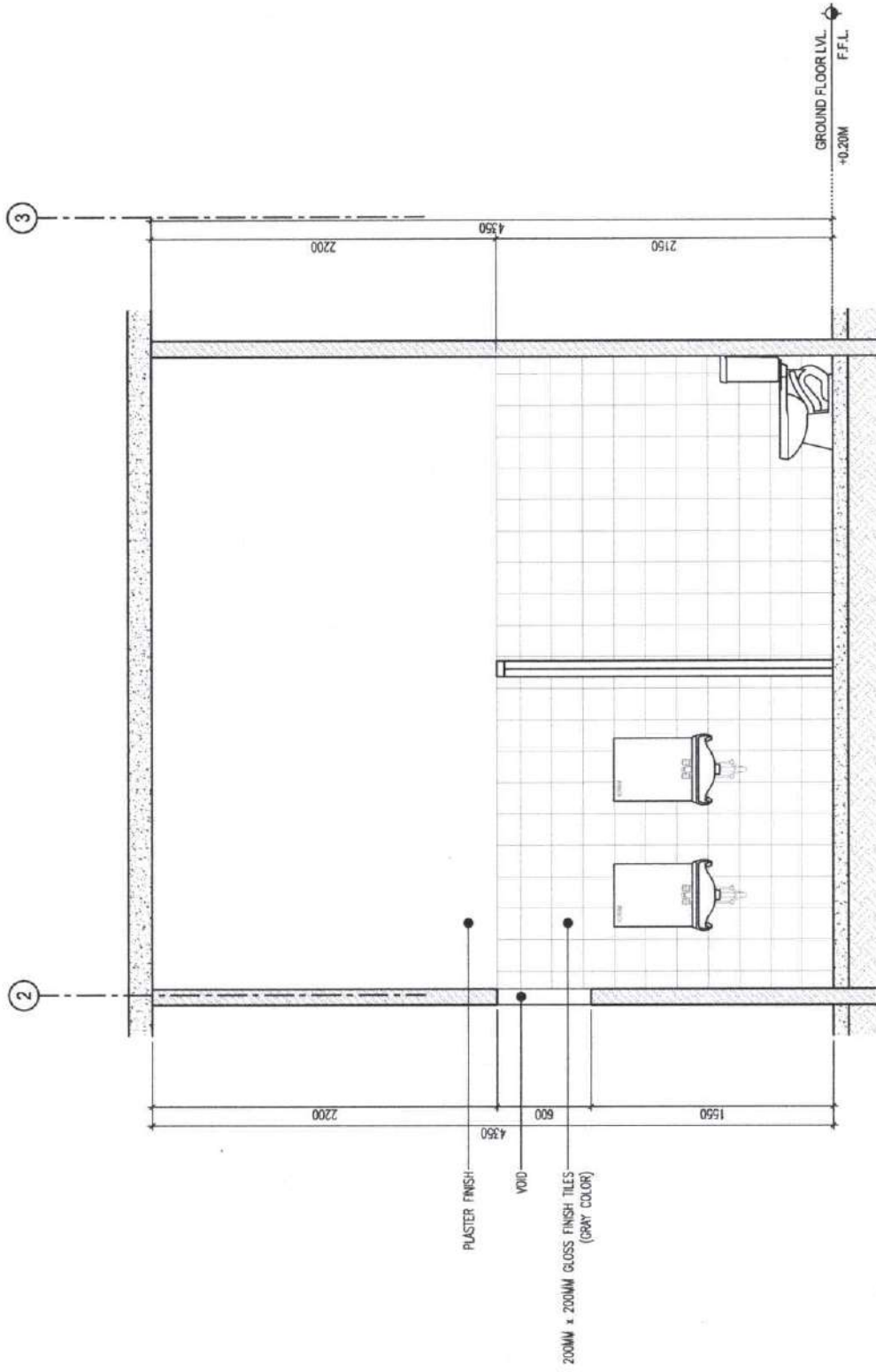
KEY PLAN



200MM x 200MM ROUGH FINISH TILES (WHITE)

1 PARTIAL PLAN DETAILS
SCALE: 1:300

<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARAHIM COTABATO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENTS TOILET DETAILS</p>	<p>PREPARED BY: JACKIE REYES-COSTALES ARCHITECT I</p>	<p>CHECKED AND REVIEWED BY: ENGR. KASIMIR D. ALIASGAR ENGINEER III</p>	<p>SUBMITTED BY: ENGR. KASIMIR D. ALIASGAR ENGINEER III</p>	<p>SHEET NO. AR-06 01</p>
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1 SECTION DETAILS
SCALE: 1:30M



Republic of the Philippines
MINISTRY OF TRANSPORTATION & COMMUNICATION
OFFICE OF THE MINISTER
BARANGAY
COTABATO CITY

PROJECT & LOCATION:

CONSTRUCTION OF RIVER LANDING AT
GAMBAR, MOTHER KABUNTALAN,
MAGUINDANAO

SHEET CONTENTS:

TOILET DETAILS

PREPARED BY:

JUAN M. MACORRILLO
ARCHITECT I

CHECKED AND REVIEWED BY:

ENGR. ASRIFFA D. ALIANGAR
ENGINEER II

SUBMITTED BY:

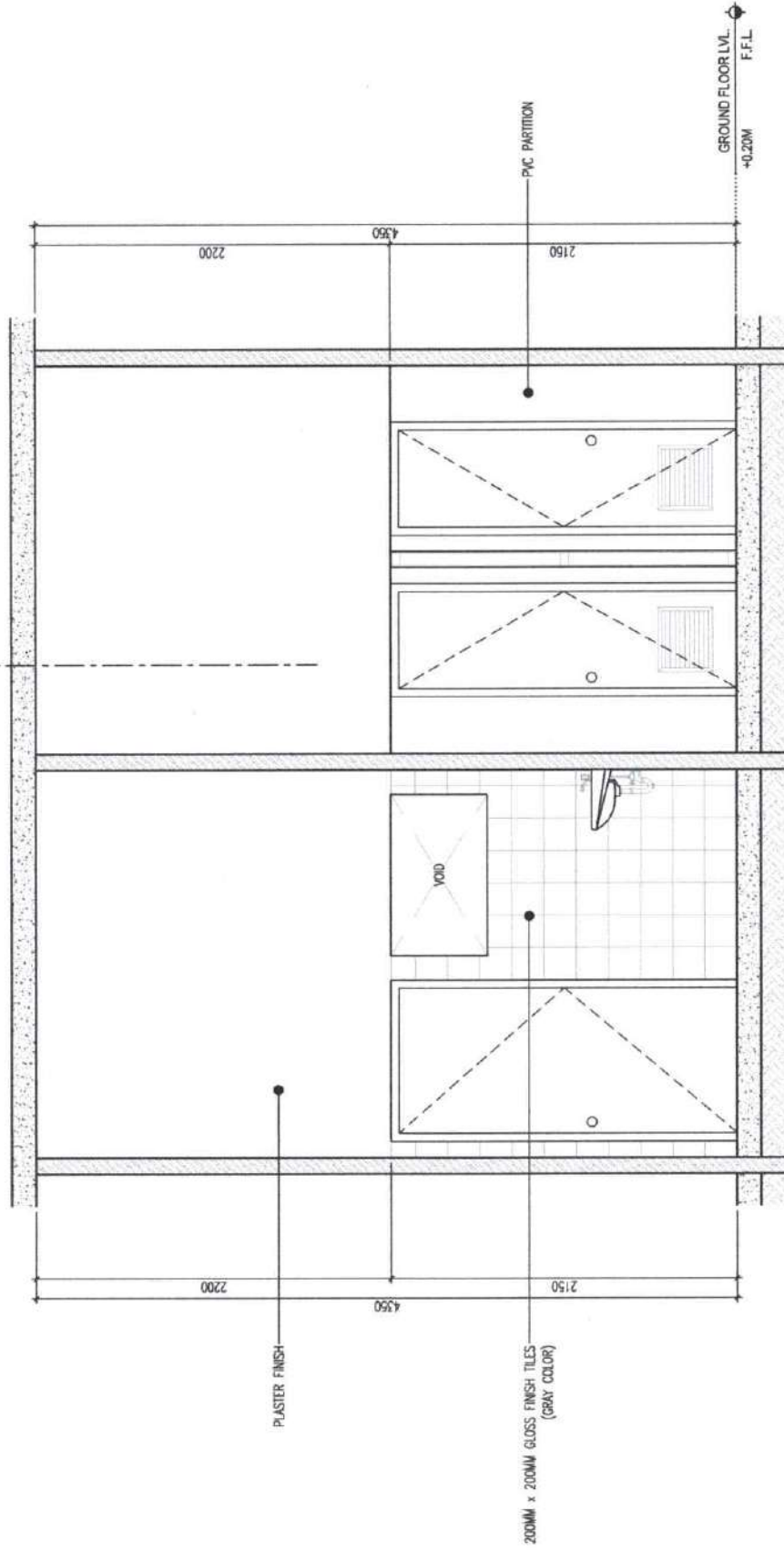
ENGR. NISHADHIREE M. MAGSAGAL
ENGINEER V

SHEET NO.


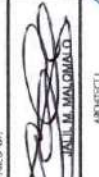
AR-06
02

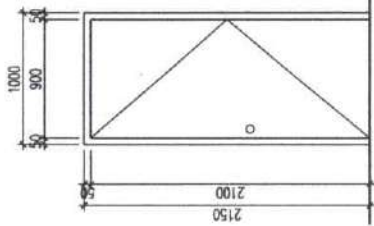
DISCLAIMER
Designs and Specifications and other Contract Documents (such as, Plans, Specifications, Bill of Materials, etc.) shall be the intellectual property of the Architect. The Contractor shall be responsible for the accuracy of the information provided for any purpose. The Contractor shall be held liable for any errors or omissions in the design or specifications or any other documents or drawings prepared or submitted by the Contractor or any other person or entity, whether or not the Contractor is the author of such documents or drawings.

B



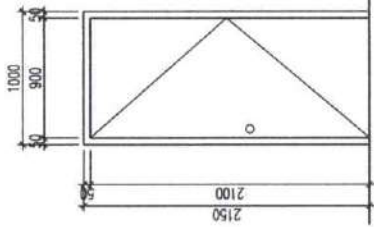
1 SECTION DETAILS
SCALE: 1:30M

 <p> Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARANGAY COTABATO CITY </p>	PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO	SHEET CONTENT: TOILET DETAILS	PREPARED BY:  MUHAMMAD MALCOLM D. MALCOLM D. ARCHITECT I	CHECKED AND REVIEWED BY:  ENGINEER ASUFHA D. ALIASGAR ENGINEER III	SUBMITTED BY:  ENGINEER IMROSHIYAH HIRSAHAL ENGINEER IV	SHEET No. AR-06 03
	<small> DRAWING ARTICLE / SECTION ID: This drawing and specifications are other Contract Documents (i.e., the Plans, Specifications, and General Conditions of Contract) and shall be read in conjunction with the other Contract Documents. The Architect shall be responsible for the coordination of all drawings and documents. The Contractor shall be responsible for the coordination of all drawings and documents. The Contractor shall be responsible for the coordination of all drawings and documents. The Contractor shall be responsible for the coordination of all drawings and documents. </small>					



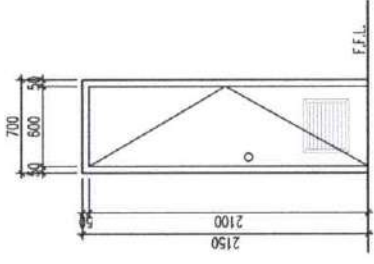
D1
RECD. 1 SET

TYPE SOLID FLUSH DOOR
(VARNISH FINISH)
LOCATION OFFICE



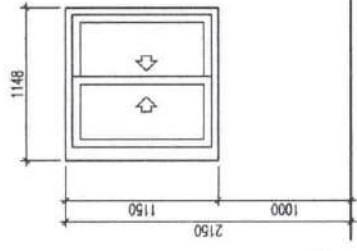
D2
RECD. 2 SETS

TYPE PRE FABRICATED PVC DOOR
LOCATION TOILET



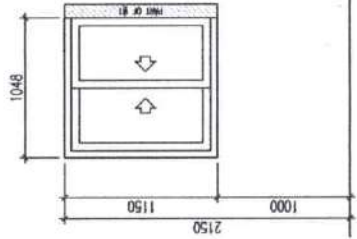
D3
RECD. 4 SETS

TYPE PRE FABRICATED PVC DOOR
LOCATION TOILET



W1
RECD. 2 SETS

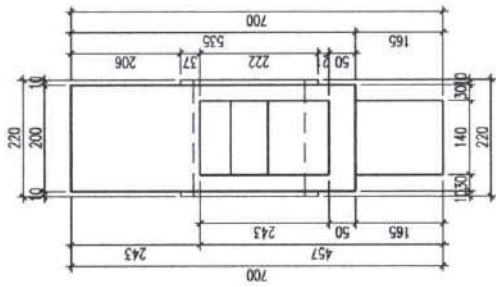
TYPE SLIDING WINDOW
ON ALUMINUM FRAME
6mm, THICK GREEN REFLECTIVE GLASS
LOCATION OFFICE



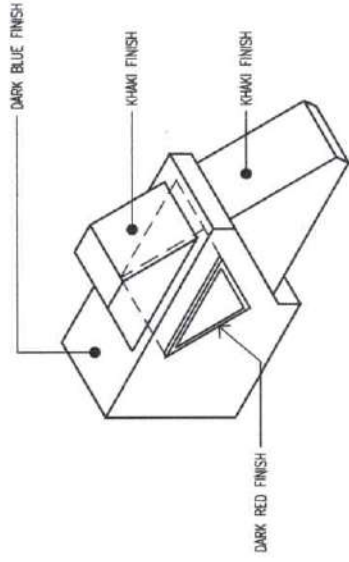
W2
RECD. 2 SETS

TYPE SLIDING WINDOW
ON ALUMINUM FRAME
6mm, THICK GREEN REFLECTIVE GLASS
LOCATION OFFICE

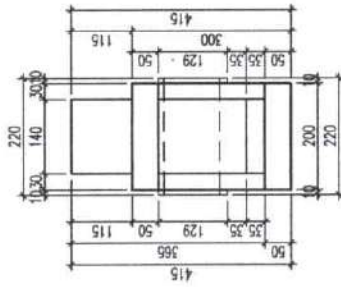
<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARMM COTABATO CITY</p>	PROJECT & LOCATION	CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO	SHEET CONTENTS:	DOORS & WINDOWS SCHEDULES	REVISIONS	<p>JULL M. MALOMALO ARCHITECT I</p>	<p>ENGR. ASMIFHA A. ALASGAR ENGINEER II</p>	<p>ENGR. NASROON B. MASAKAL ENGINEER V</p>	
	<p>Change and Specifications and other Contract Documents shall be interpreted in accordance with the General Conditions of Contract and Documents of Contract, unless otherwise indicated in the Contract Documents. It shall be the responsibility of the contractor to obtain all necessary permits, licenses, and clearances for the execution of the work, and the contractor shall be responsible for obtaining all necessary permits, licenses, and clearances for the execution of the work.</p>	<p>REVISIONS</p> <p>NO. DATE BY SECTION</p>	<p>PREPARED BY:</p> <p>JULL M. MALOMALO ARCHITECT I</p>	<p>CHECKED AND REVIEWED BY:</p> <p>ENGR. ASMIFHA A. ALASGAR ENGINEER II</p>	<p>AS-SUBMITTED BY:</p> <p>ENGR. NASROON B. MASAKAL ENGINEER V</p>	SHEET NO.	AR-07 01		



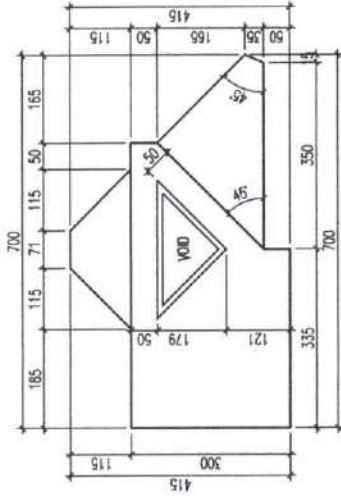
TOP VIEW



ISOMETRIC VIEW

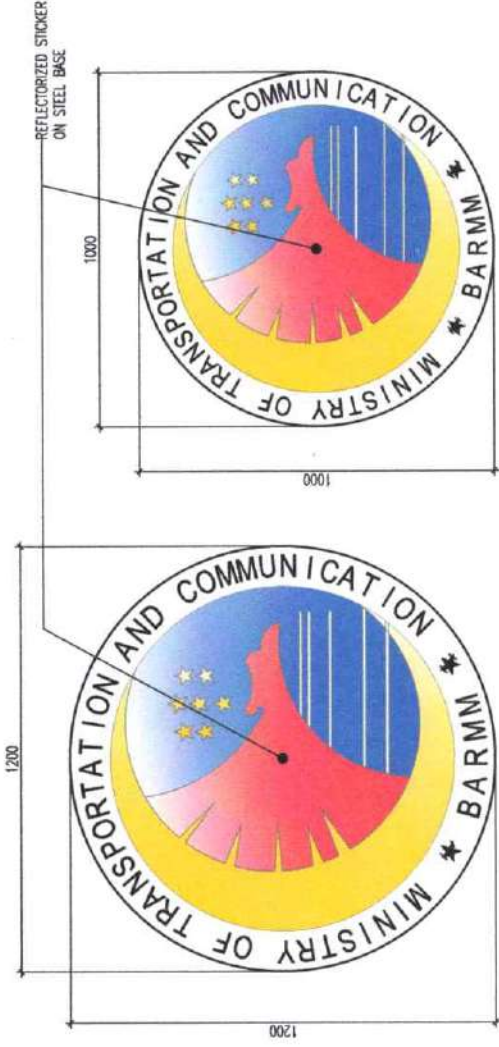


FRONT VIEW



SIDE VIEW

1 PANOLONG DETAILS
SCALE: 1:10M



2 LOGO DETAILS
SCALE: 1:15M



3 SIGNAGE DETAILS
SCALE: 1:15M



Republic of the Philippines
MINISTRY OF TRANSPORTATION & COMMUNICATION
OFFICE OF THE MINISTER
BARMM
COTABATO CITY

PROJECT & LOCATION:

CONSTRUCTION OF RIVER LANDING AT
GAMBAR, MOTHER KABUNTALAN,
MAGUINDANAO

SHEET CONTENT:

DETAILS

RAJAH ARTICLE IN SECTION 33

Drawings and Specifications are under Contract Documents. It is the responsibility of the Engineer to check the drawings and Specifications and to ensure that they are in accordance with the Contract Documents. The Engineer shall not be held responsible for any errors or omissions in the drawings and Specifications, whether caused by him or by any other person, and shall not be held responsible for any errors or omissions in the drawings and Specifications, whether caused by him or by any other person, and shall not be held responsible for any errors or omissions in the drawings and Specifications, whether caused by him or by any other person.

PREPARED BY:

JULIE M. MACDONALDO
ARCHITECT I

CHECKED AND REVIEWED BY:

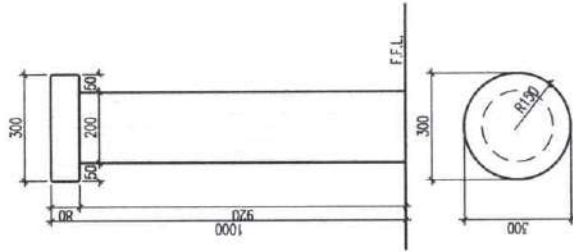
ENGR. ASAPH A. ALANGAR
ENGINEER II

SUBMITTED BY:

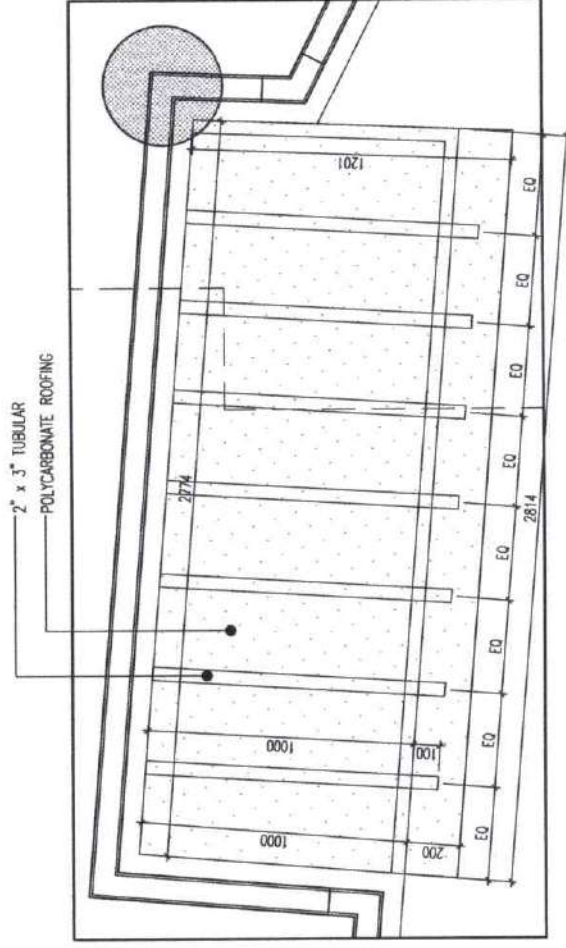
ENGR. MARROUFE B. MASAKAL
ENGINEER IV

SHEET No.

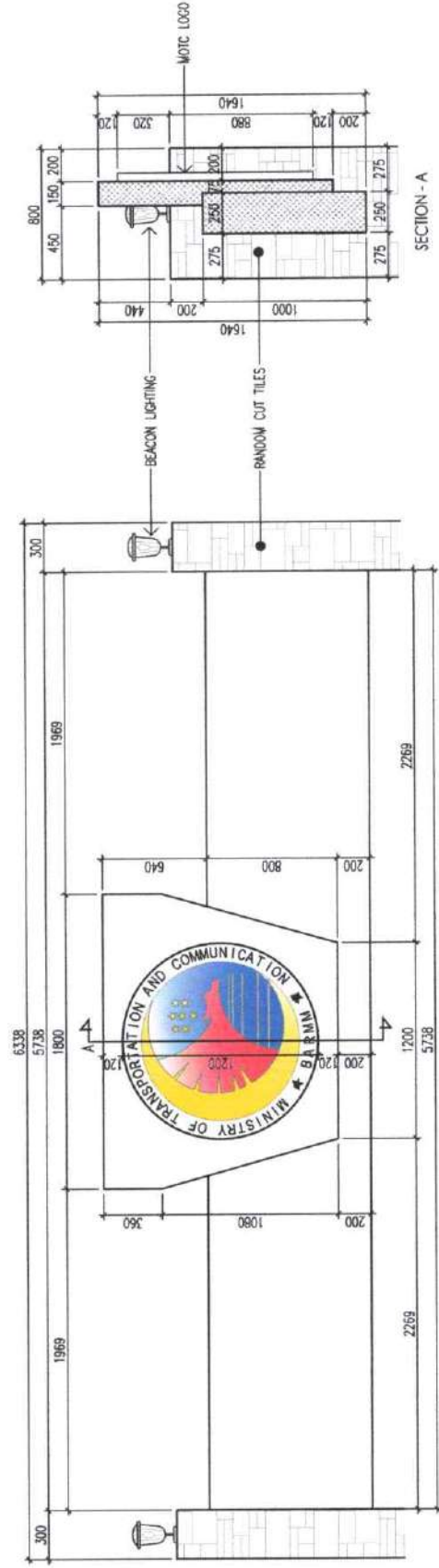
AR-08
01



1 CONCRETE BOLLARD DETAILS
SCALE: 1:150M

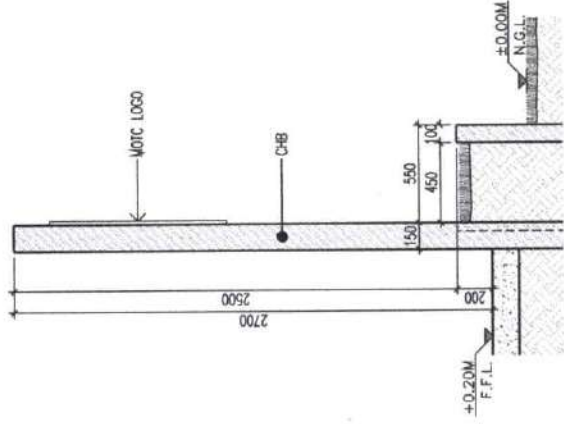
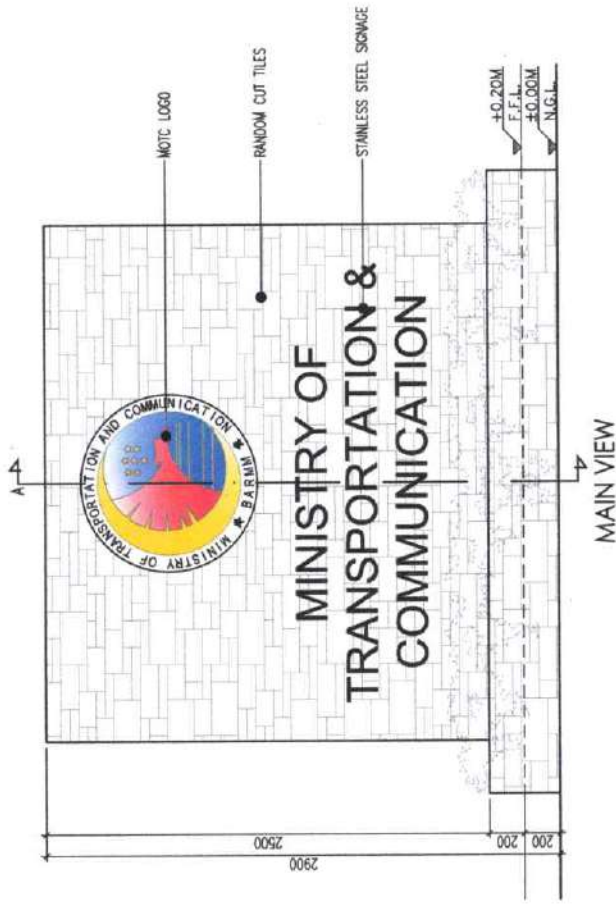


2 PLAN DETAILS
SCALE: 1:200M

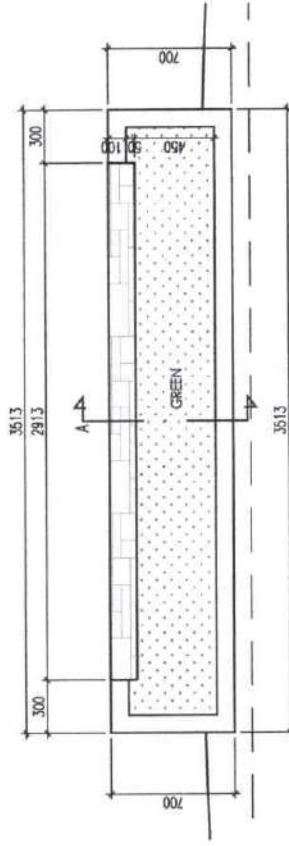


3 SPOT DETAILS
SCALE: 1:150M

<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARAN COTABATO CITY</p>	PROJECT & LOCATION	CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO	PREPARED BY:	<p>ENGR. ASAPH A. D. ALMAGAR ENGINEER II</p>	CHECKED AND REVIEWED BY:	<p>ENGR. MASROBIN B. MASAGAL ENGINEER V</p>	SUBMITTED BY:	<p>ENGR. MASROBIN B. MASAGAL ENGINEER V</p>	SHEET No.	AR-08 02
	SHEET CONTENT:	DETAILS	<p>RAJAH, ARTICLE IV (SECTION 3)</p> <p>Drawings and Specifications are the property of the Office of the Engineer in Charge. They shall remain the property of the Office of the Engineer in Charge and shall not be used for any other purpose without the written consent of the Office of the Engineer in Charge. The Engineer in Charge shall not be held responsible for any errors or omissions in the drawings and specifications. The contractor shall be responsible for the accuracy of the field dimensions and for the location of all structures and buildings, with the exception of those indicated on the drawings and specifications.</p>	<p>DESIGNED AND SPECIFIED BY: Engr. Masrobin B. Masagal</p> <p>CHECKED BY: Engr. Asaph A. D. Almagar</p> <p>APPROVED BY: Engr. Masrobin B. Masagal</p>	<p>DATE: 08/08/2023</p>					



SECTION A



PLAN

1 SIGNAGE DETAILS
SCALE: 1:30M

 <p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARANGAY COTABATO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF RIVER LANDING AT GAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENTS: DETAILS</p>	<p>DESIGNER: JALIE M. MALOMALO ARCHITECT I</p>	<p>CHECKED AND REVIEWED BY: ENGR. ASIFHA D. ALINGGAR ENGINEER II</p>	<p>DESIGNED BY: ENGR. MASROOQ B. MASAKAL ENGINEER IV</p>	<p>SHEET No. AR-08 03</p>
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DESIGNER: JALIE M. MALOMALO
ARCHITECT I

CHECKED AND REVIEWED BY:
ENGR. ASIFHA D. ALINGGAR
ENGINEER II

DESIGNED BY:
ENGR. MASROOQ B. MASAKAL
ENGINEER IV

SHEET No.
AR-08
03

STRUCTURAL

1. GENERAL NOTES, CONCRETE, REINFORCING
2. BENT / HOOK, SPLICE, NOTES, DWEL EMBEDMENT LENGTH
, AND REINFORCED CONCRETE/BLOCK MASONRY
3. STRUCTURAL SCHEDULE
4. STRUCTURAL DETAILS
5. COLUMN LAYOUT PLAN, COLUMN SCHEDULE
6. FOUNDATION LAYOUT PLAN
7. TIE BEAM LAYOUT PLAN
8. BOND BEAM LAYOUT PLAN
9. BEAM AND SLAB LAYOUT PLAN
10. ROOF BEAM LAYOUT PLAN
11. FIRST LEVEL ROOF PLAN
12. 2ND LEVEL ROOF PLAN
13. ROOF TRUSS SECTION
14. SECTION AND ISOMETRIC

II - CONCRETE :

- DESIGN OF ALL REINFORCED CONCRETE STRUCTURE SHALL BE IN ACCORDANCE WITH THE ACI "BUILDING CODE" (ACI 318-02) STRENGTH METHOD
- CLASSES OF CONCRETE ARE AS FOLLOWS :

CLASS	MINIMUM WATER CEMENT RATIO (BY WEIGHT)		MINIMUM CEMENT CONTENT		MINIMUM 28 DAYS COMPRESSIVE STRENGTH (MPa)
	MAXIMUM	MINIMUM	KG/m ³	IN./IN ³	
(LEAN CONCRETE)	0.50	0.40	250	421	3000
(REINFORCED CONC. & PRE-CAST WALL)	0.40	0.30	350	590	4350
(PRE-STRESSED (REINFORCED CONC.))	0.40	0.35	375	683	5000

- ALL STRUCTURAL CONCRETE SHALL BE MADE WITH CEMENT AS PER MPW GUIDELINES SPECIFICATION. BELOW GROUND CONCRETE AND LEAN CONCRETE SHALL BE DONE WITH TYPE I/II PORTLAND CEMENT. ALL CONCRETE FOR ABOVE GROUND STRUCTURES AND GRADE SLABS SHALL BE MADE WITH TYPE-I ORDINARY PORTLAND CEMENT.
- ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE MOTC ENGINEERING DIVISION REPRESENTATIVE PRIOR TO PLACING OF CONCRETE. EXCAVATION AND BACK FILLING SHALL BE DONE AS PER MPW GUIDELINE SPECIFICATION.

EMBEDDED MATERIALS :

- BEFORE PLACING CONCRETE CARE SHALL BE TAKEN THAT ALL EMBEDDED ITEMS AND EQUIPMENT BE POSITIONED AND SECURELY FASTENED IN PLACE.
- NOT ALL EMBEDDED ITEMS ARE SHOWN IN THE CONCRETE OUTLINE DRAWINGS. REFER TO APPLICABLE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND VENDOR EQUIPMENT DRAWINGS FOR ADDITIONAL DETAILS ON LOCATION, SETTING AND ARRANGEMENT OF EMBEDDED ITEMS LISTED AS FOLLOWS, BUT NOT LIMITED TO :
 - ANCHOR BOLTS AND ANCHORS.
 - ELECTRICAL CONDUITS, APPARATUS AND GROUNDING CONDUCTORS.
 - EMBEDDED STRUCTURAL STEEL FOR EQUIPMENT AND MISCELLANEOUS STEEL.
 - PIPING, PIPE SLEEVES, METAL INSERTS, FLOOR DRAINS, TRENCH DETAILS AND WEDGE INSERTS.
- ELECTRIC CONDUITS, PIPING AND ANY OTHER ITEMS TO BE EMBEDDED IN STRUCTURAL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS OF THE ACI "BUILDING CODE" (ACI 318) FOR REINFORCED CONCRETE. CHAPTER 6, SECTION 1900 SHALL BE WELL SECURED IN POSITION.
- ALL PRIOR TO PLACING CONCRETE ALL EMBEDDED MATERIALS SHALL BE SHOWN IN SHOP DRAWINGS. WATER STOP SHALL BE MADE CONTINUOUS BY CAREFULLY MADE FIELD CONNECTIONS. ALL PROTECTING WATER STOPS SHALL BE SUPPORTED AND PROTECTED FROM DAMAGE AND PERMISSIBLE DURING CONSTRUCTION.
- ALL EXPRESSIBLE EMBEDDED ITEMS CAST IN FOUNDATION SHALL BE GALVANIZED OR COATED ANCHOR BOLTS SHALL BE ASTM A-307 CLASS "A". ANCHOR BOLTS SHALL NOT BE IN CONTACT WITH REINFORCING STEEL. ALL ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED. SIZE AND DETAILS SHALL BE IN ACCORDANCE WITH APPLICABLE PROJECT DRAWINGS.

JOINTS AND RECESSES :

- THE LOCATION AND ARRANGEMENT OF CONSTRUCTION, CONTROL, CONTRACTION AND EXPANSION JOINTS NOT SHOWN ON DRAWINGS SHALL BE AS APPROVED BY THE MOTC ENGINEERING DIVISION REPRESENTATIVE. LOCATE AND SHOW ALL JOINTS IN SHOP DRAWINGS AND OBTAIN MOTC ENGINEERING DIVISION APPROVAL PRIOR TO COMMENCEMENT OF WORK. JOINTS FOR SLABS ON GRADE SHALL BE IN ACCORDANCE WITH ACI 224.3R.
- FOR ALL ADDITIONAL RECESSES AND OTHER SMALL OPENINGS, WHICH MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE APPLICABLE VENDORS EQUIPMENT DRAWINGS.
- CONSTRUCTION JOINTS SHALL BE TREATED IN ACCORDANCE WITH RC SPECIFICATIONS. PROPOSED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF MOTC ENGINEERING DIVISION REPRESENTATIVE. UNLESS NOTED ON DRAWINGS PROVIDE JUNCTIONS OF GRADE SLAB WITH GRADE BEAMS, EQUIPMENT FOUNDATIONS, CMU WALLS, COLUMNS RCC & PRE-CAST WALLS ETC.
- LOCATION AND CLASSIFICATION OF FINISHES FOR FORMED AND UNFORMED SURFACES SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS OR AS DIRECTED BY MOTC REPRESENTATIVE.
- EQUIPMENT INSTALLED ON CONCRETE FOUNDATIONS SHALL BE GIVEN FULL AND EVEN BEARING BY USING NON-SHRINK GROUT AS PER RC SPECIFICATIONS.

- PROVIDE APPROPRIATE RECESSES IN SLABS FOR FINISHES. MAINTAIN FULL SLAB THICKNESS BELOW THESE RECESSES. ENJOINED IN DRAWINGS. SEE ARCHITECTURAL INTERIOR MATERIAL SCHEDULES, FLOOR PLANS, AND DETAILS OF REQUIRED DEPRESSIONS.

- WATER USED FOR CURING SHALL COMPLY WITH STANDARD SPECIFICATIONS.

- LEAN CONCRETE 50mm THK. SHALL BE PROVIDED BELOW ALL CONCRETE FOUNDATIONS AND GRADE BEAMS POLYETHYLENE VAPOR BARRIER 200 MICRON SHALL BE PROVIDED BELOW THE REINFORCED CONCRETE SLAB ON-GRADE AND BELOW FOOTINGS AND ABOVE LEAN CONCRETE.

- ALL EXPOSED FACES OF CONCRETE FOUNDATIONS, GRADE BEAMS, WALLS AND ALL CONCRETE IN DIRECT CONTACT WITH EARTH SHALL BE COATED WITH TWO COATS OF BUTADIENOL COATINGS OR COAL TAR EPOXY TO A DRY FILM THICKNESS OF 0.2mm EACH. CORROSION PROTECTION SHALL BE IN ACCORDANCE WITH MOTC ENGINEERING DIVISION DESIGN CRITERIA

- ALL EXPOSED EDGES OF WALLS, COLUMNS, PILASTERS, BEAMS, CURBS, EQUIPMENT PADS SHALL HAVE A CHAMFER OF 20mm.

I - GENERAL :

- ALL GUIDELINE SPECIFICATIONS, ACI AND ASTM STANDARDS SHALL BE THE LATEST AS OF THE DATE OF ISSUE OF DRAWINGS FOR CONSTRUCTION.
- ALL DIMENSIONS SHOWN ARE IN MILLIMETERS AND ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AFFECTING THE WORKS AT THE JOB SITE SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
- DO NOT SCALE DRAWINGS.
- FOR LOCATION AND DIMENSIONS OF PARTITIONS, DEPRESSIONS, GROOVES, SLEEVES, CURBS, OPENINGS, EMBEDDED OR ATTACHED ITEMS, REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PIPING DRAWINGS.
- DETAILS OF CONSTRUCTION NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS, AND SHALL BE APPROVED BY THE MOTC ENGINEERING DIVISION REPRESENTATIVE ON SITE.
- ALL ELEVATIONS ARE BASED ON TOP OF CONCRETE SLAB AT GRADE LEVEL (GROUND FLOOR) AS ELEV. 0.000. UNLESS NOTED OTHERWISE ON DRAWINGS. FOR EXACT ELEVATION WITH REFERENCE TO GRADE ELEVATION REFER TO RELEVANT CIVIL DRAWING FOR THE BUILDING.
- ALL UNDERGROUND PIPING AND ELECTRICAL CONDUITS SHALL BE LAID IN PLACE PRIOR TO PLACING OF CONCRETE FOUNDATION OR PAVING/ FLOOR SLABS ON GRADE.
- SHOP AND WORKING DRAWINGS COMPLETE WITH DATA SHEETS SHALL BE SUBMITTED TO MOTC ENGINEERING DIVISION REPRESENTATIVE FOR APPROVAL. PLANS, SECTION, DETAILS SHOWING EXACT LOCATION AND TYPE OF ALL OPENINGS, SLEEVES/WALL CASTING, ANCHORS, WATER STOPS AND CONSTRUCTION AND EXPANSION JOINTS SHALL BE PREPARED PRIOR TO CONSTRUCTION.
- GROUND WATER WAS ENCOUNTERED IN THE BOREHOLES AT A DEPTH RANGING 3.7M TO 6.0M (EL. 7M TO EL. 2.67M) BELOW EXISTING GRADE. THE GROUND WATER IS WELL BELOW THE PROPOSED FOUNDATION LEVEL.
- THE CONTRACTOR SHALL CARRYOUT SOIL INVESTIGATION TO CONFIRM THE PERMISSIBLE BEARING CAPACITY OF 40 KN/M² BY CARRYING OUT 3 BOREHOLES UNDER THE BUILDING TO A MINIMUM DEPTH OF 10m EACH.
- WHEREVER FOUNDATIONS AND SLAB ON GRADE ARE SHOWN RESTING ON WELL COMPACTED SELECT FILL THE CONTRACTOR SHALL ENSURE THAT THE SELECT FILL CONFORMS TO AND IS COMPACTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF GUIDELINES SPECIFICATION SECTION 02315, EXCAVATION AND BACK FILL.
- CONCRETE FOUNDATIONS (ISOLATED, OR STRIP) SHALL BE TOTALLY ENVELOPED (WATER TANKED) WITH WATERPROOFING MEMBRANE TO PROTECT FROM CORROSION IN ACCORDANCE WITH RC GUIDELINE SPECIFICATIONS SECTION 07130.
- ALL EQUIPMENT PAD SIZES AND CONSTRUCTION DETAILS SHOWN ON DRAWINGS ARE BASED ON APPROVED VENDOR DATA. HOWEVER THESE DATA SHALL BE VERIFIED PRIOR TO CONSTRUCTION, IF EVER ACTUAL CONDITION DICTATES CHANGES IN EQUIPMENT DATA.

DESIGN LOADS

- DEAD LOADS
 - MARBLE/QUARRY TILES ON 25mm THK MORTAR - 1.10 KN/M²
 - 50mm THK SAND SCREED - 1.00 KN/M²
 - PROVISION FOR CEILING - 0.15 KN/M²
 - MECHANICAL DUCTS ALLOWANCE - 0.20 KN/M²
 - LIGHTING FIXTURE & MISC ALLOWANCE - 0.10 KN/M²
 - 50mm THK GRAVEL - 1 KN/M²
 - SINGLE PLY EPDM MEMBRANE - 0.03 KN/M²
 - 100mm THK RIGID INSULATION - 0.32 KN/M²
- LIVE LOADS
 - ROOF DECK WITHOUT ACCESS AND WITHOUT EQUIPMENT - 1.0 KN/M²
 - PACKAGED AIR CONDITIONING UNIT (PACU) = 2.0 KN/M²

- WIND LOAD

THE DESIGN BASIC WIND PRESSURE IS BASED ON A WIND VELOCITY OF 96km/h (155kph) AS PER THE DESIGN CRITERIA, AND ACCORDING TO ASCE 7-02 USING SIMPLIFIED PROCEDURE.

- SEISMIC LOADS

IBC 2003 SEISMIC REQUIREMENTS IS USED FOR THE EARTHQUAKE LOADS.

III - REINFORCING : (REFER TO RC SPECIFICATIONS SECTION 03205)

REINFORCING STEEL :

- ALL REINFORCING STEEL BARS SHALL BE HOT ROLLED MEDIUM TENSILE DEFORMED BILLET STEEL BARS CONFORMING TO SASO SSA 2 OR ASTM A615M OR A706M, GRADE 60 (#14 MPa) FUSION-BONDED EPOXY COATED REBARS CONFORMING TO ASTM A775M SHALL BE USED FOR ALL STRUCTURAL ELEMENTS BELOW GRADE. REBAR SHALL CONFORM TO SASO SSA 224 OR ASTM A185 WELDED WIRE FABRIC FOR SLABS ON GROUND STRENGTH OF 24MPa (34.8 ksi) AND SHALL BE EITHER CRACK RESISTANT COATED OR GALVANIZED AS PER ASTM A-767 WELDED WIRE FABRIC FOR PRECAST ELEMENTS AND TOPPING OF PRE-STRESSED PRECAST SLABS SHALL BE GRADE 60, 414Mpa.

DETAILING :

- DETAILING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE ACI BUILDING CODE (ACI-318-05), FOR REINFORCED CONCRETE, CHAPTER 7 AND ACI 315-92 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"; AND RC GUIDELINE SPECIFICATION SECTION 03205.
- DIMENSIONS AND SPACING OF BARS ARE TO THE CENTERLINE OF THE BARS UNLESS OTHERWISE NOTED.

PLACING OF REINFORCING BARS :

- ALL REINFORCING BARS SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 7 OF ACI "BUILDING CODE" (ACI-318-05)
- REINFORCEMENT MAY BE MOVED WITH APPROVAL OF THE MOTC ENGINEERING DIVISION REPRESENTATIVE AS NECESSARY TO CLEAR THE PIPES, SEA, RECESSES, EMBEDDED ITEMS, AND CONDUITS, EXCEPT IN AREAS WHERE REINFORCEMENT IS CONGESTED. IN THE LATTER CASE, RELOCATION OF EMBEDDED MATERIALS MUST BE CONSIDERED AND CASE, BARS SHALL BE BENT WITH A RADIUS LEAST EQUAL TO THE SPACING OF THE BARS.
- THEY SHALL BE POSITIONED TO CONFORM TO STANDARD SPECIFICATIONS FOR BAR SUPPORTS CONTAINED IN THE ACI 315-98 EXCEPT AS NOTED ON DRAWINGS. THE USE OF PRECAST CONCRETE OR MORTAR BLOCKS AS BAR SUPPORT AND SPACERS, SHALL BE PROHIBITED.
- MINIMUM CONCRETE COVER FOR REINFORCING BARS IN CAST-IN-PLACE CONCRETE SHALL BE IN ACCORDANCE WITH STANDARDS GUIDELINE SPECIFICATION AND PROVIDED AS FOLLOWS, UNLESS OTHERWISE NOTED :
 - FOOTINGS OR BEAMS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH/CONCRETE EXPOSED TO SEWAGE POTABLE AND TREATED WATER; INTERIOR OF UNDERGROUND MANHOLE - 75MM
 - FORMED SURFACES EXPOSED TO WEATHER OR EARTH - 75MM
 - FORMED SURFACES NOT EXPOSED DIRECTLY TO WEATHER OR EARTH.
 - SLABS, WALLS, JOISTS - 40MM
 - BEAMS, GIRDERS, COLUMNS :
 - MAXIMUM CLEAR REINFORCEMENT TIES OR STIRRUPS - 50MM
 - OTHER MEMBERS ALL SIZES - 30MM
 - NOT EXPOSED EARTH OR WEATHER - 50MM
 - SLABS WALLS AND JOISTS ALL SIZES - 20MM
 - BEAMS AND COLUMNS :
 - (AT STIRRUPS OR TIES) - 20MM
 - PRIMARY REINFORCEMENT - 30MM

- REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN A MANNER THAT WILL INJURE THE MATERIAL BARS WITH KINKS OR IMPROPER BENDS SHALL NOT BE USED. NO BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE FIELD BENT, EXCEPT AS SHOWN ON THE DRAWINGS.

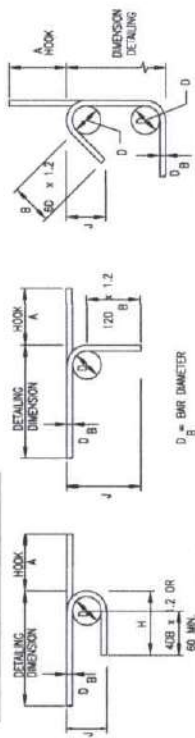
- REINFORCEMENT MAY BE BENT IN THE FIELD TO CLEAR WATER STOPS AND KEYS. BARS AT EDGES OF SMALL OPENINGS (MAXIMUM 60mm) IN FLOORS AND WALLS MAY BE CUT TO SUIT IN THE FIELD, OR SPREAD APART NOT MORE THAN 1.5 TIMES THE BAR SPACING. PROVIDE TRIM BARS TO REPLACE AND LAP THOSE CUT. ALL CUT ENDS AND DAMAGED EPOXY COATING SHALL BE REPAIRED USING FIELD TOUCH UP REPAIR KIT SUPPLIED BY APPROVED MANUFACTURER.

- THE CLEAR DISTANCE BETWEEN PARALLEL BARS IN A LAYER SHALL NOT BE LESS THAN THE NOMINAL DIAMETER OF THE BAR, BUT NOT LESS THAN 25mm. THE CLEAR DISTANCE BETWEEN LONGITUDINAL BARS IN COLUMNS SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL BAR DIAMETER NOR 40mm.

- THE CLEAR DISTANCE LIMITATION BETWEEN BARS SHALL ALSO APPLY TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPICE AND ADJACENT SPLICES OF BARS.

 <p>Ministry of Transportation & Communication OFFICE OF THE MINISTER Babtain COTRABTC CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF PEVER LANG AT GAMB AB, MOTHER HAB UNTALAI, MAQUINDANO</p>	<p>SHEET CONTENT GENERAL NOTES CONCRETE REINFORCING</p>	<p>REVISIONS, ARTICLE IV SECTION 18 <small>Changes and Specifications and other Contract Documents shall be prepared, approved and issued by the Engineer. All drawings shall be prepared and issued by the Engineer. The Engineer shall be responsible for the accuracy of the drawings. The Contractor shall be responsible for the accuracy of the work. The Contractor shall be responsible for the accuracy of the work. The Contractor shall be responsible for the accuracy of the work.</small></p>	<p>DRAWN BY MOHAMMAD ASAF I. AHMAD ENGINEER</p>	<p>CHECKED AND REVIEWED BY ETIHAJ AL-SAYID AL-ALI ENGINEER</p>	<p>SUBMITTED BY ENGR. WISSAM H. B. MASALAL ENGINEER</p>	<p>SHEET NO. S-1 14</p>
	<p>ENGINEER: </p>						

IV - BENT / HOOK : NOTE: DETAILS SHOWN BELOW ARE FOR EPOXY COATED BARS. 0



SIZES OF 180° HOOK

BAR SIZE (mm)	A (mm)	H (mm)	J (mm)
10	167	106	110
12	188	120	120
16	248	160	157
20	310	200	196
25	386	250	245
32	486	300	314

SIZES OF 90° HOOK

BAR SIZE (mm)	A (mm)	J (mm)
10	172	194
12	207	233
16	276	310
20	345	388
25	431	485
32	552	621

SIZES OF 135° HOOK

BAR SIZE (mm)	A (mm)	J (mm)
10	140	97
12	167	117

MINIMUM BEND DIAMETER (D) FOR EPOXY COATED REBARS (MAIN BARS, TIES AND STIRRUPS) AS PER ASTM A775.

BAR SIZE (mm)	BEND DIAMETER (D)
8	64
10	80
12	96
16	128

BAR SIZE (mm)	BEND DIAMETER (D)
20	160
22	176
25	200
32	256

FOR NON-EPOXY COATED BARS, MULTIPLIER OF 1.2 SHALL BE REPLACED BY 1.0 AND FOR MINIMUM BEND DIAMETER, REFER TO ACI 318.

V - SPLICE :

1. LOCATION OF SOME SPLICES ARE SHOWN ON DRAWINGS. SPLICES NOT SHOWN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CONCRETE REINFORCING STEEL INSTITUTE (CRSI)- MANUAL OF STANDARD PRACTICE AND AS APPROVED BY RC REPRESENTATIVE.
2. ALL SPLICING OF REINFORCING BARS SHALL BE DONE BY LAPPING UNLESS OTHERWISE APPROVED. BARS SPLICED BY NON CONTACT LAP SPLICES IN FLEXURAL MEMBERS SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED SPLICE LENGTH NOR 150mm.
3. ALL TENSION LAP SPLICES SHALL BE CLASS B AS DEFINED IN ACI 318-05 SEC. 12.15.2. TENSION LAP SPLICE LENGTH SHALL BE $1.3A_d$ WHERE A_d IS THE TENSILE DEVELOPMENT LENGTH IN ACCORDANCE WITH ACI 318-05 SECTION 12.2 WITHOUT THE MODIFICATION FACTOR OF 12.2.5 OR MINIMUM OF 40 BAR DIAMETER WHICHEVER IS GREATER.
4. COMPRESSION LAP SPLICE LENGTH (IN INCHES) SHALL BE 30d MIN. WHERE D IS THE DIAMETER OF BAR IN INCHES.
5. ALL SLAB REINFORCEMENT SPLICES SHALL BE MADE SUCH THAT THE REQUIRED DISTANCES TO THE FACE OF WALL, SLABS OR REFERENCE LINES ARE MAINTAINED.
6. SPLICES FOR ADJACENT REBARS SHALL BE STAGGERED.

NOTES :

1. FOR BARS SPACED LATERALLY AT LEAST 150mm ON CENTER AND AT LEAST 75mm FROM THE SIDE FACE OF MEMBER, USE 0.8 l_d BUT THE LAP SPLICE LENGTH SHALL NOT BE LESS THAN 300mm.
2. TOP BARS ARE HORIZONTAL AND INCLINED REINFORCING BARS SO PLACED THAT MORE THAN 0.30 M. OF CONCRETE IS CAST IN THE MEMBER BELOW THE BARS.
3. ALL SPLICES NOT INCLUDED ON PLAN SHALL BE TENSION SPLICES.

SPLICES OF DEFORMED BARS

BAR DIAMETER	SPLICES OF RETURNED BARS IN TENSION		SPLICES OF DEFORMED BARS IN COMPRESSION	
	TOP BARS (mm)	BOTTOM BARS (mm)	TOP BARS (mm)	BOTTOM BARS (mm)
#8-#10, #12	550	400	350	500
#16	920	680	500	500
#20	1100	800	600	600
#25	1800	1300	760	760
#32	3000	2100	1000	1000

VI - DOWEL EMBEDMENT LENGTH : (STANDARD HOOKS IN TENSION) LDH

1. THE MINIMUM DOWEL DEVELOPMENT LENGTH (mm) SHALL BE AS FOLLOWS.

CONCRETE CLASS	B A R S I Z E					
	10	12	16	20	25	32
4000 PSI	160	240	310	380	460	610
5000 PSI	170	215	280	340	430	550

2. ALL BARS MARKED CONTINUOUS SHALL BE PROPERLY LAPPED AT SPLICES AND CORNERS AND HOOKED AT NON-CONTINUOUS ENDS.

3. WELDING OF REINFORCING BARS WHERE PERMITTED SHALL BE PERFORMED IN ACCORDANCE WITH AWS D 1.4, STRUCTURAL WELDING CODE.

VII - REINFORCED CONCRETE - BLOCK MASONRY :

1. CONCRETE MASONRY UNITS SHALL BE GRADE "N-1" UNITS CONFORMING TO ASTM C90, ASTM C129, SPECIFICATIONS 04220 AND SHALL HAVE A COMPRESSIVE STRENGTH OF F'_m BASED ON NET AREA AS FOLLOWS:
a) FOR LOAD BEARING CMU $F'_m=1500$ psi
b) FOR NON LOAD BEARING CMU $F'_m=500$ psi.
2. REINFORCING BARS SHALL CONFORM TO SS42 GRADE 60 SHALL BE USED FOR ALL WALLS.
3. PORTLAND CEMENT SHALL BE ASTM C150 TYPE-I, NON-STAINING OF NATURAL COLOR OR WHITE.
4. MORTAR SHALL BE TYPE S AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI (12.4 MPa) AT 28 DAYS, IN ACCORDANCE WITH RC SPECIFICATIONS 04080.
5. GROUT SHALL HAVE A FLUID CONSISTENCY FOR POURING WITHOUT SEGREGATION, AGGREGATE SHALL CONFORM TO ASTM C 404, THE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 2,000 PSI (14MPa), IN ACCORDANCE WITH RC SPECIFICATIONS 04070.
6. ALL NON-LOAD BEARING WALLS SHALL BE GROUTED ONLY AT LOCATION OF VERTICAL REINFORCEMENTS.

VIII - PRECAST CONSTRUCTION : (REFER TO RC SPECIFICATION 03430.03450)

1. DESIGN AND CONSTRUCTION OF PRECAST ELEMENTS SHALL BE IN ACCORDANCE WITH ROYAL COMMISSION PROJECT SPECIFICATIONS SECTIONS 03430 AND 03450 AND THE PRECAST/PRESTRESSED DESIGN CRITERIA STRUCTURAL AND PRECAST INSTITUTE MANUALS.
2. TENSILE STRENGTH OF PRESTRESSING STRAND SHALL BE 270KSI (1863 Mpa) AND SHALL BE OF LOW RELAXATION TYPE CONFORMING TO ASTM A416 GRADE 270. IT SHALL BE IN ACCORDANCE WITH ROYAL COMMISSION PROJECT SPECIFICATIONS 03380.
3. UNCOATED STRESS-RELIEVED STEEL WIRE SHALL CONFORM TO ASTM A421M.
4. HIGH TENSILE STRENGTH ALLOY BARS SHALL CONFORM TO ASTM A722M WITH A MINIMUM STRENGTH OF 800Mpa.
5. ALL REINFORCEMENT DETAILS FOR HOLLOW CORE SHALL BE PROVIDED BY CONTRACTOR THROUGH PRECAST VENDOR TO BE APPROVED BY ROYAL COMMISSION.



Republic of the Philippines
MINISTRY OF TRANSPORTATION & COMMUNICATION
OFFICE OF THE MINISTER
BAGUIO
COTABATO CITY

PROJECT / LOCATION
CONSTRUCTION OF REVER LANG AT GAMBAR, MOTHER KABUTALAN, MAGUINDAYAO

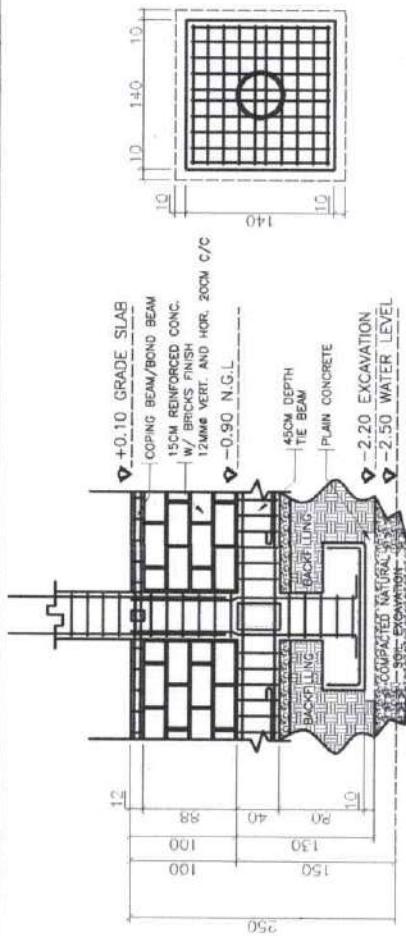
SHEET CONTENTS
BENT/HOOK
-SPLICE
-NOTES
-DOWEL EMBEDMENT LENGTH
-REINFORCED CONCRETE/BLOCK MASONRY

PAKIKI-ARTIKULAM SECTION 3D
Drawing and Specifications and other Contract Documents shall remain the property of the Architect. The Architect shall not be held responsible for any errors or omissions in the drawings or specifications or for any consequences arising from the use of the drawings or specifications or for any claims, damages, losses, or expenses, in whole or in part, which may be incurred by the contractor or subcontractor, or any other party, in connection with the execution of the project or the use of the drawings or specifications or for any claims, damages, losses, or expenses, in whole or in part, which may be incurred by the contractor or subcontractor, or any other party, in connection with the execution of the project or the use of the drawings or specifications.

DRAWN BY: MOHAMMAD ALI ALIAD ENGINEER II

CHECKED AND REVIEWED BY: ENGR. SHIFHA D ALIADGAR ENGINEER III

SUBMITTED BY: ENGR. HASPOUN B. HASANVAL ENGINEER IV



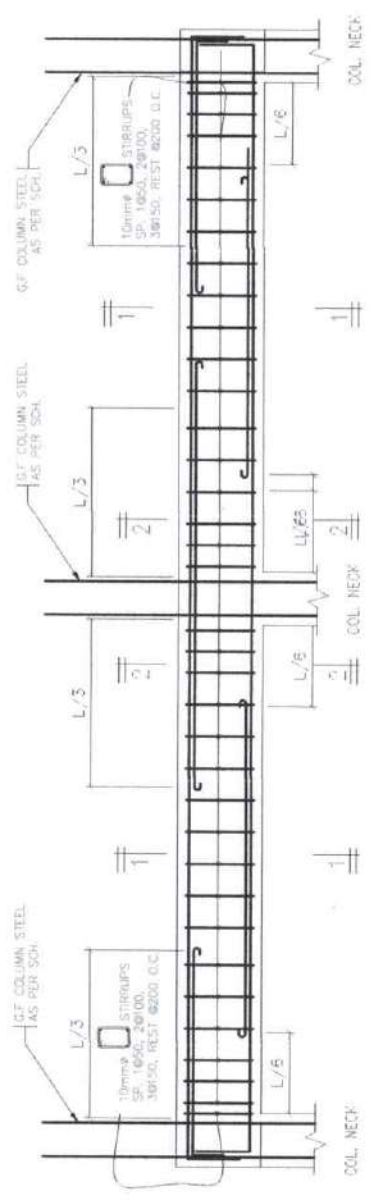
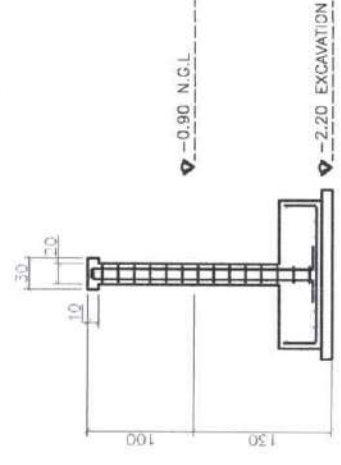
a FOUNDATION DETAILS
SCALE 1:50 MTS

	COLUMN	RINGRINGS
P1	4 16mm ϕ	10mm ϕ @ 150m C/C
P2	22 16mm ϕ	10mm ϕ @ 150m C/C

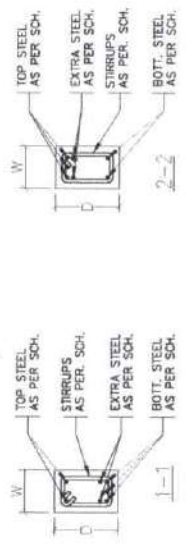
	COLUMN	RING	GROUND FLOOR	2ND FLOOR
C1	45 8-16mm ϕ	10mm ϕ @ 150m C/C	2-10mm ϕ @ 150m C/C	2-10mm ϕ @ 150m C/C
C2	80 10-16mm ϕ	3-10mm ϕ @ 150m C/C	1.LONG=2 2.LONG=13	2-10mm ϕ @ 150m C/C
C3	312 26-16mm ϕ		GROUND FLOOR	2ND FLOOR
C4	50 6-16mm ϕ			

b COLUMN DETAILS
SCALE 1:50 MTS

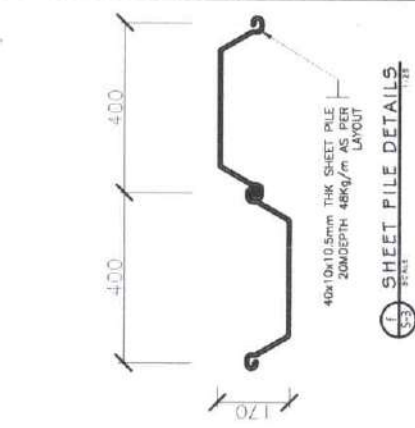
c TYP. PED. DETAILS
SCALE 1:50 MTS



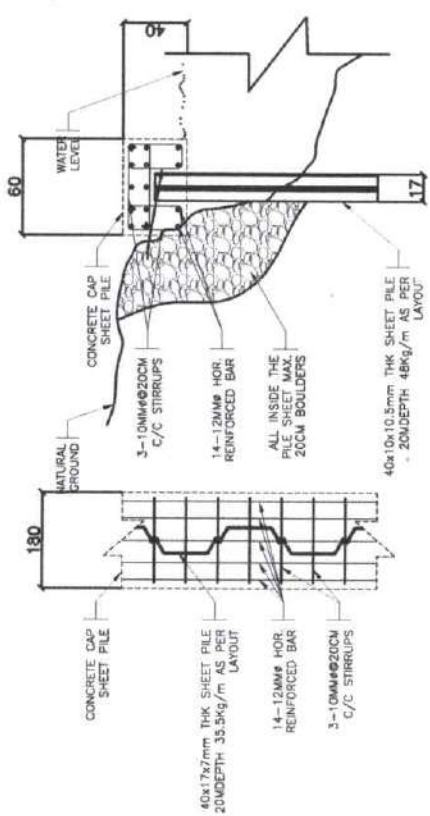
d TIE BEAM, BEAM, AND ROOF BEAM DETAILS
SCALE 1:400 MTS



e TYP. SECTION
SCALE 1:400 MTS



f SHEET PILE DETAILS
SCALE 1:25



g CAP SHEET PILE DETAILS
SCALE 1:25



Ministry of the Hashemite Kingdom of Jordan
MINISTRY OF TRANSPORTATION & COMMUNICATION
OFFICE OF THE MINISTER
JEDDAH, SAUDI ARABIA

PROJECT & LOCATION
CONSTRUCTION OF FEWER LANE AT
GAMBAR, MOTHER KABUTALAH,
MAGUINDANAO

SHEET CONTENTS
STRUCTURAL DETAILS

DRAWN BY:
MOHAMMAD ABRAF K. AHMAD
ENGINEER

CHECKED AND REVIEWED BY:
ENGR. SORITHA D. ALI-SAGAR
ENGINEER II

SUBMITTED BY:
ENGR. HASROON B. MASSAVAL
ENGINEER

SHEET NO.
S-3
14

COLUMN

COLUMN MARK	SECTION		VERTICAL STEEL	STIRRUPS
	WIDTH "B" (Cm)	THICKNESS "T" (Cm)		
C1	450		8016	010015
C2	30	80	10016	3-010015
C3	20	310	26016	SEE DET.
C4	20	30	6016	2-010015
P1	200		4016	010015
P2	120	120	22016	010020

SLAB SCHEDULE

SLAB MARK	SECTION THICKNESS "T" (Cm)	BOT. REINF.			TOP. REINF.			REMARKS
		SHORT A	LONG B	ADDITIONAL C	SHORT D	LONG E	ADDITIONAL F	
S	12	01200150m C/C	01200150m C/C	-	01000150m C/C	01000150m C/C	01200200m C/C	TWO WAY SLAB
RAMP	12	01200200m C/C	01600150m C/C	-	01200200m C/C	01600150m C/C	01200200m C/C	SEE ATTACHED DETAILS

FOUNDATION SCHEDULE FOR SOIL BEARING CAPACITY OF 140 KPa AT 1M DEPTH (SEE NOTE 4)

FOOTING MARK	LENGTH "A" (Cm)	WIDTH "B" (Cm)	THICKNESS "T" (Cm)	BOT. REINF.			TOP. REINF.		REMARKS
				LONG BAR	SHORT BAR	STIRRUPS	LONG BAR	SHORT BAR	
F-1	140	140	40	012 @ 150mc/c	012 @ 150mc/c	-	-	-	
F-2	175	185	40	015 @ 200mc/c	016 @ 150mc/c	012 @ 200mc/c	012 @ 200mc/c	012 @ 200mc/c	
F-3	395	395	40	016 @ 150mc/c	016 @ 150mc/c	012 @ 200mc/c	012 @ 200mc/c	012 @ 200mc/c	AS SHOW(PLAN)
F-4	180	180	30	016 @ 150mc/c	016 @ 150mc/c	-	-	-	

WALL FOOTING

WF	VARIABLES	200	100	012 @ 200m c/c SHORT	3-012 LONG
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SCHEDULE OF TRUSS / WEB TRUSS

ITEM	KING POST	WEB MEM	TOP CHORD	BOTTOM CHORD
TRUSS-A	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)
TRUSS-B	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)
TRUSS-C	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)	SINGLE ANGLE BAR (2"x2"x5mm)

TIE BEAM/BOND BEAM SCHEDULE

BEAM MARK	SECTION WIDTH "B" (Cm)	THICKNESS "T" (Cm)	BOT. REINF.			TOP. REINF.			SKIN RFT. (BOTH FACE)
			STRAIGHT A	ADDITIONAL B	STIRRUPS C	STRAIGHT D	ADDITIONAL E	STIRRUPS F	
TB	25	45	3016	2016	3016	2016	010010	010015	
BB	25	20	3016	-	3016	-	010015	-	

BEAM/ROOF BEAM SCHEDULE

BEAM MARK	SECTION WIDTH "B" (Cm)	THICKNESS "T" (Cm)	BOT. REINF.			TOP. REINF.			SKIN RFT. (BOTH FACE)
			STRAIGHT A	ADDITIONAL B	STIRRUPS C	STRAIGHT D	ADDITIONAL E	STIRRUPS F	
B1	25	50	4016	3016	4016	3016	010010	010015	
B2	25	35	2016	1416	2016	3016	010010	010015	
RB1	25	40	3016	-	3016	-	010015	-	
RB2	25	100	4016	-	4016	-	010015	-	



Ministry of Transportation & Communication
OFFICE OF THE MINISTER
SARINI
COTABATO CITY

SHEET CONTENT:

STRUCTURAL SCHEDULE

CONSTRUCTION OF PEYER LANG AT GAMBAR, MOTHER KABUTALAN, MAGUINDANAO

PA-RMR-ARTICLE IV SECTION 33
Drawings and specifications and other Contract Documents shall remain the property of the Engineer. The Engineer shall not be held responsible for any errors or omissions in the drawings or specifications or for any consequences arising from the use of the drawings or specifications for any purpose other than that for which they were prepared. The Engineer shall not be held responsible for any consequences arising from the use of the drawings or specifications for any purpose other than that for which they were prepared.

DRAWN BY:
MOHAMMAD ASAF K. ALIYAD
ENGINEER I

CHECKED AND REVIEWED BY:
ENGR. SHAFIQA D. ALIYAD
ENGINEER II

SUBMITTED BY:

ENGR. TUSPOON B. MASANAL
ENGINEER IV

SHEET No.

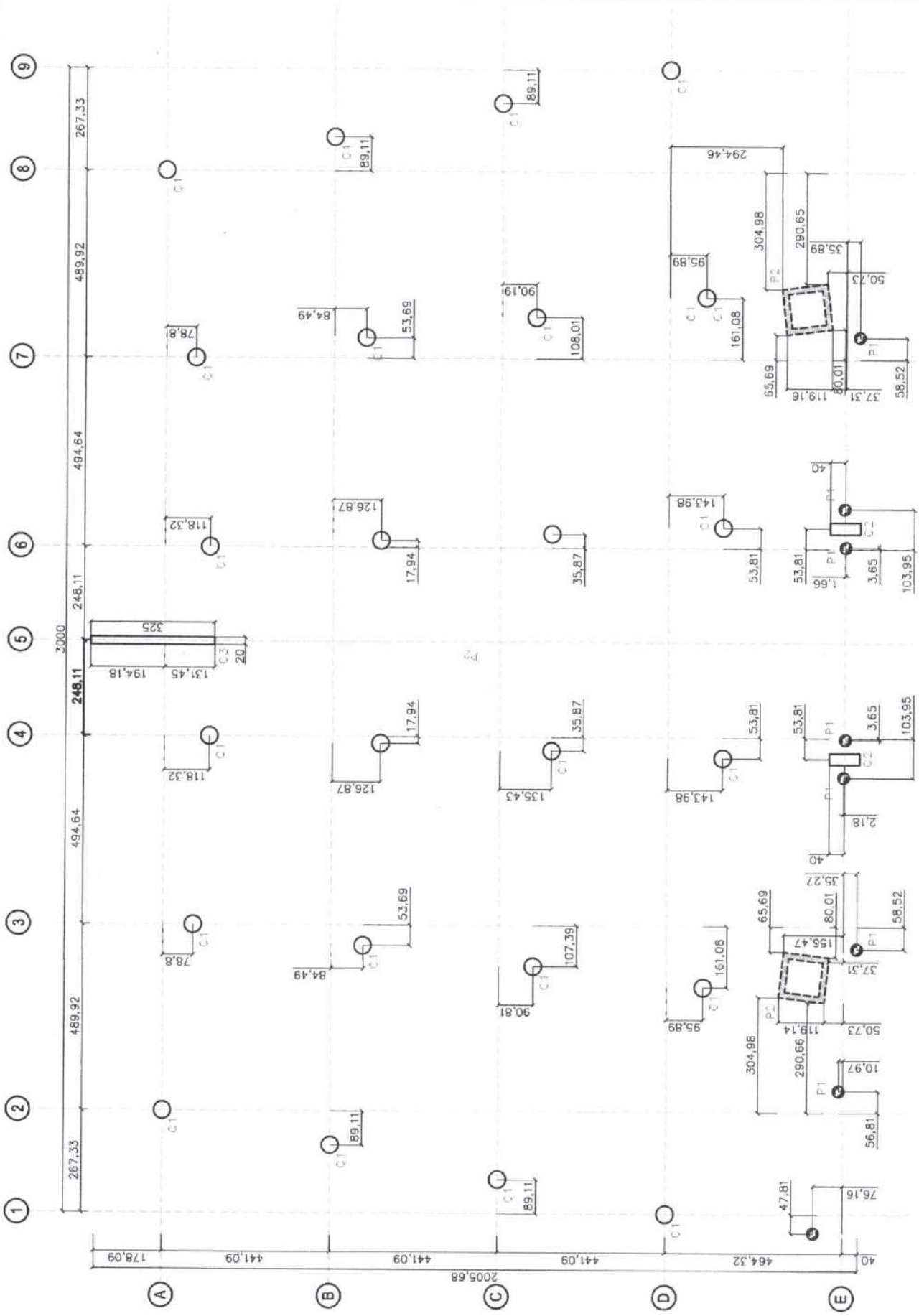
S-4
14

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NOTES

1. ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE NOTED.
2. FOR GENERAL NOTES, REFER TO DWG. NO. S-1 & S-2
3. CONTRACTOR SHALL PREPARE OR PROVIDE SHOP DRAWINGS AND CALCULATIONS WHEN IT HAVE SPACES AS PER SITE CONDITION BEFORE PROCEED THE WORK FOR THE APPROVAL OF MOTC ENGINEERING DIVISION.
4. CONTRACTOR SHALL VERIFY THE ACTUAL SITE CONDITION OF LOCATION AND EXISTING STRUCTURE BEFORE STARTING THE CONSTRUCTION OF THE PROJECT

1. COLUMN ARE DESIGNED FOR TWO STOREY BUILDING
2. SBC ASSUMES 25T/M²
3. $f_{cu} = 35 \text{ N/mm}^2$
 $f_y = 400 \text{ N/mm}^2$
4. COLUMN LOADS ARE ULTIMATE IN TON.
5. MOMENT ARE SERVICE IN TON-m



COLUMN	PIPING	RING
C1	8-16mm ϕ	10mm ϕ @150m C/C
C2	10-16mm ϕ	3-10mm ϕ @150m C/C
C3	26-16mm ϕ	2-10mm ϕ @150m C/C 1. LONG=2 2. LONG=13 GROUND FLOOR
C4	6-16mm ϕ	2-10mm ϕ @150m C/C 2ND FLOOR

a COLUMN LAYOUT
SCALE 1:100 MTS

<p>Ministry of Transport, Communications and Information OFFICE OF THE MINISTER KOTA BHARU CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF PEVER LAING AT GAMBAR, MOTHER KABUPATEN, MAGUINDANAO</p>	<p>SHEET CONTENT: COLUMN LAYOUT PLAN</p>	<p>IN ACCORDANCE WITH SECTION 33 I hereby agree to accept the responsibility of the design and drawings of the project under the supervision of the architect or to the extent of my professional services in the preparation of the drawings for use in the construction of the project or in which I have been employed or in which, without my written consent, the architect or author of such drawings.</p>	<p>DRAWN BY: MOHAMMAD SYRAF A. AKLUD ENGINEER I</p>	<p>CHECKED AND REVIEWED BY: ENJN LESHFHA D. ALIASCAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. NASRUDIN B. MASAKAL ENGINEER IV</p>	<p>SHEET NO: S-5 14</p>
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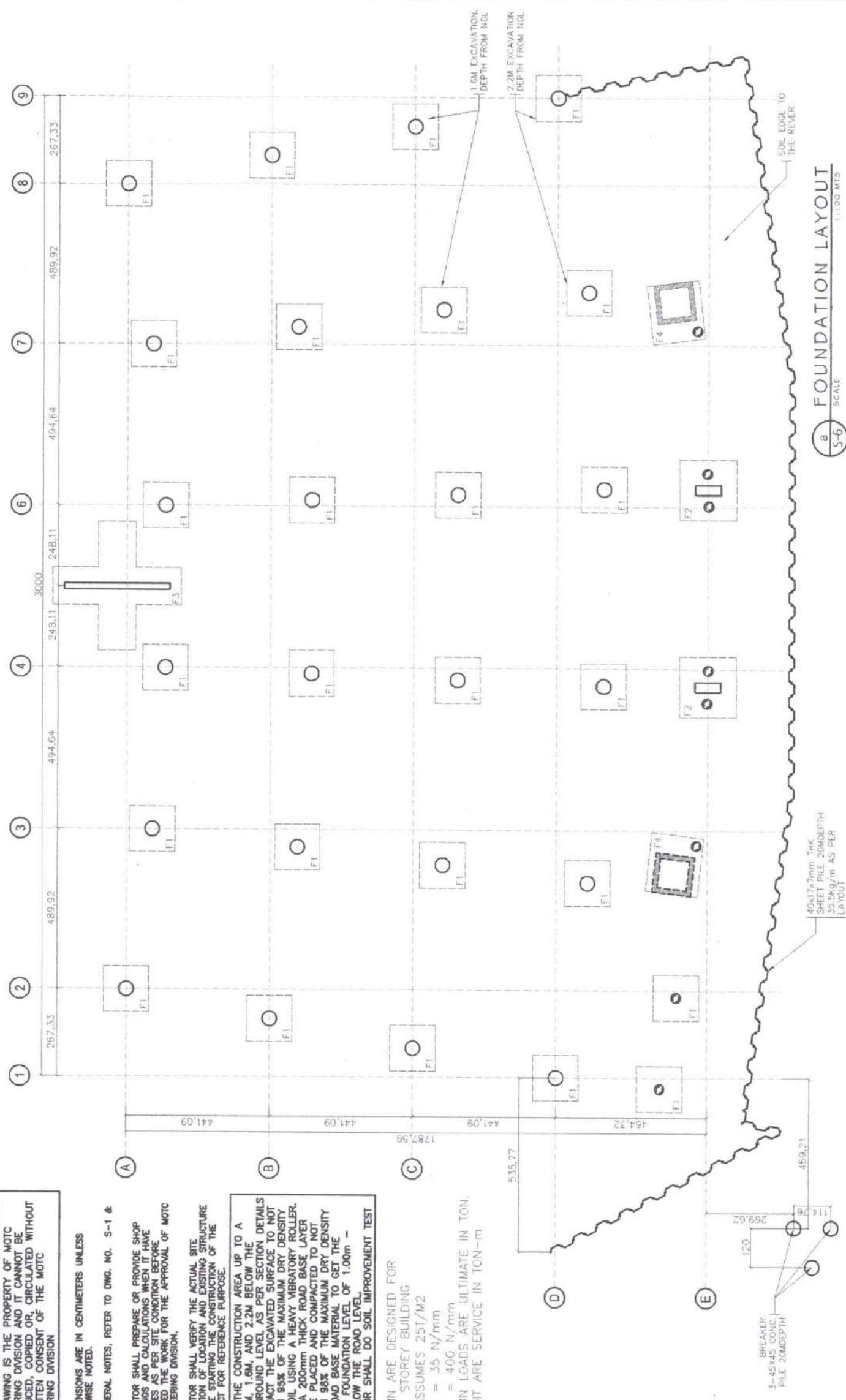
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NOTES

1. ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE NOTED.
2. FOR GENERAL NOTES, REFER TO DWG. NO. S-1 & S-2
3. CONTRACTOR SHALL PREPARE OR PROVIDE SHOP DRAWINGS AND CALCULATIONS WHEN IT HAVE CHANGES AS PER SITE CONDITION BEFORE PROCEEDING THE WORK FOR THE APPROVAL OF MOTC ENGINEERING DIVISION.
4. CONTRACTOR SHALL VERIFY THE ACTUAL SITE CONDITION OF LOCATION AND EXISTING STRUCTURE BEFORE STARTING THE CONSTRUCTION OF THE PROJECT FOR REFERENCE PURPOSE.

EXCAVATE THE CONSTRUCTION AREA UP TO A LEVEL 1.3M, 1.6M, AND 2.2M BELOW THE NATURAL GROUND LEVEL AS PER SECTION DETAILS AND COMPACT THE EXCAVATED SURFACE TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY OF THE SOIL USING A HEAVY VIBRATORY ROLLER. FURTHER, A 200mm THICK ROAD BASE LAYER HAS TO BE PLACED AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY OF THE ROAD BASE MATERIAL TO GET THE PROPOSED FOUNDATION LEVEL OF 1.00m - 1.20m BELOW THE ROAD LEVEL. CONTRACTOR SHALL DO SOIL IMPROVEMENT TEST

1. COLUMN ARE DESIGNED FOR TWO STOREY BUILDING
2. SBC ASSUMES 25T/M2
3. $f_{cu} = 35 \text{ N/mm}^2$
 $f_y = 400 \text{ N/mm}^2$
4. COLUMN LOADS ARE ULTIMATE IN TON.
5. MOMENT ARE SERVICE IN TON-m



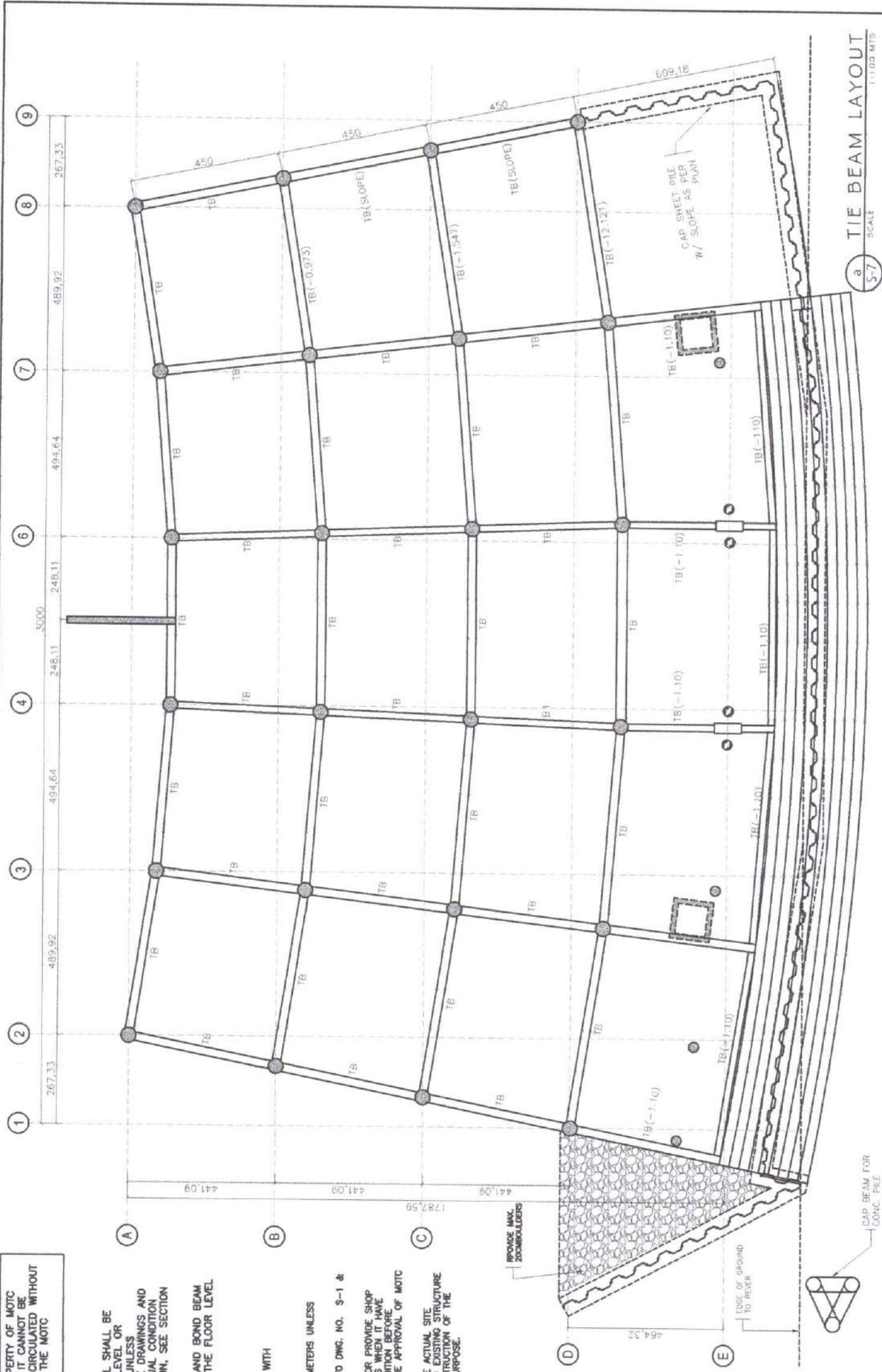
a S-6 SCALE 1:100 MTS

	<p>Ministry of Transportation & Communication OFFICE OF THE MINISTER BAGUIO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT GAMBAR, MOTHER KABUNTAHAN, MAGUINDANAO</p>	<p>SHEET CONTENT FOUNDATION LAYOUT PLAN</p>	<p>IN 10% ARTICLE IV SECTION 33 Drawings and Specifications and other Contract Documents shall always be signed or sealed, as to contents of Services, by the Architect, Engineer, Surveyor, or other professional as required or not. It shall be deemed that the professional is responsible for the accuracy of the drawings and specifications for use in the repetition of and for other projects or buildings, in the absence of a written agreement to the contrary, in respect of the drawings, or other documents.</p>	<p>DRAWN BY: MOHAMMAD RAFI K. AKMAD ENGINEER I</p>	<p>CHECKED AND REVIEWED BY: ENGR. CHRISTINA D. CLASAGAR ENGINEER III</p>	<p>SUBMITTED BY: ENGR. MARCOS B. BARSAL ENGINEER IV</p>	<p>SHEET NO: S-6 14</p>
--	---	--	---	---	--	--	---	---------------------------------

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NOTES

- ALL TIE BEAMS TOP LEVEL SHALL BE -0.90 FROM REFERENCE LEVEL OR (NATURAL GROUND LEVEL) UNLESS OTHERWISE MENTION IN THE DRAWINGS AND CONFIRM AS PER SITE ACTUAL CONDITION DURING THE IMPLEMENTATION, SEE SECTION FOR REF.
 - PROVIDE HOLLOW BLOCK AND BOND BEAM ABOVE TIE BEAM TO RAISE THE FLOOR LEVEL WHEREVER REQUIRED
 - $f_{cu}=40 \text{ N/mm}^2$
 - $f_y=400 \text{ N/mm}^2$
 - 10 CM THK GRADE SLAB WITH REINFORCEMENT $\phi 10 @ 20 \text{ cm}$ MESH BOTHWAYS.
1. ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE NOTED.
 2. FOR GENERAL NOTES, REFER TO DWG. NO. S-1 & S-2
 3. CONTRACTOR SHALL PREPARE OR PROVIDE SHOP DRAWINGS AND CALCULATIONS WHEN IT HAVE CHANGES AS PER SITE CONDITION BEFORE PROCEED THE WORK FOR THE APPROVAL OF MOTC ENGINEERING DIVISION.
 4. CONTRACTOR SHALL VERIFY THE ACTUAL SITE CONDITION OF LOCATION AND EXISTING STRUCTURE BEFORE STARTING THE CONSTRUCTION OF THE PROJECT FOR REFERENCE PURPOSE.



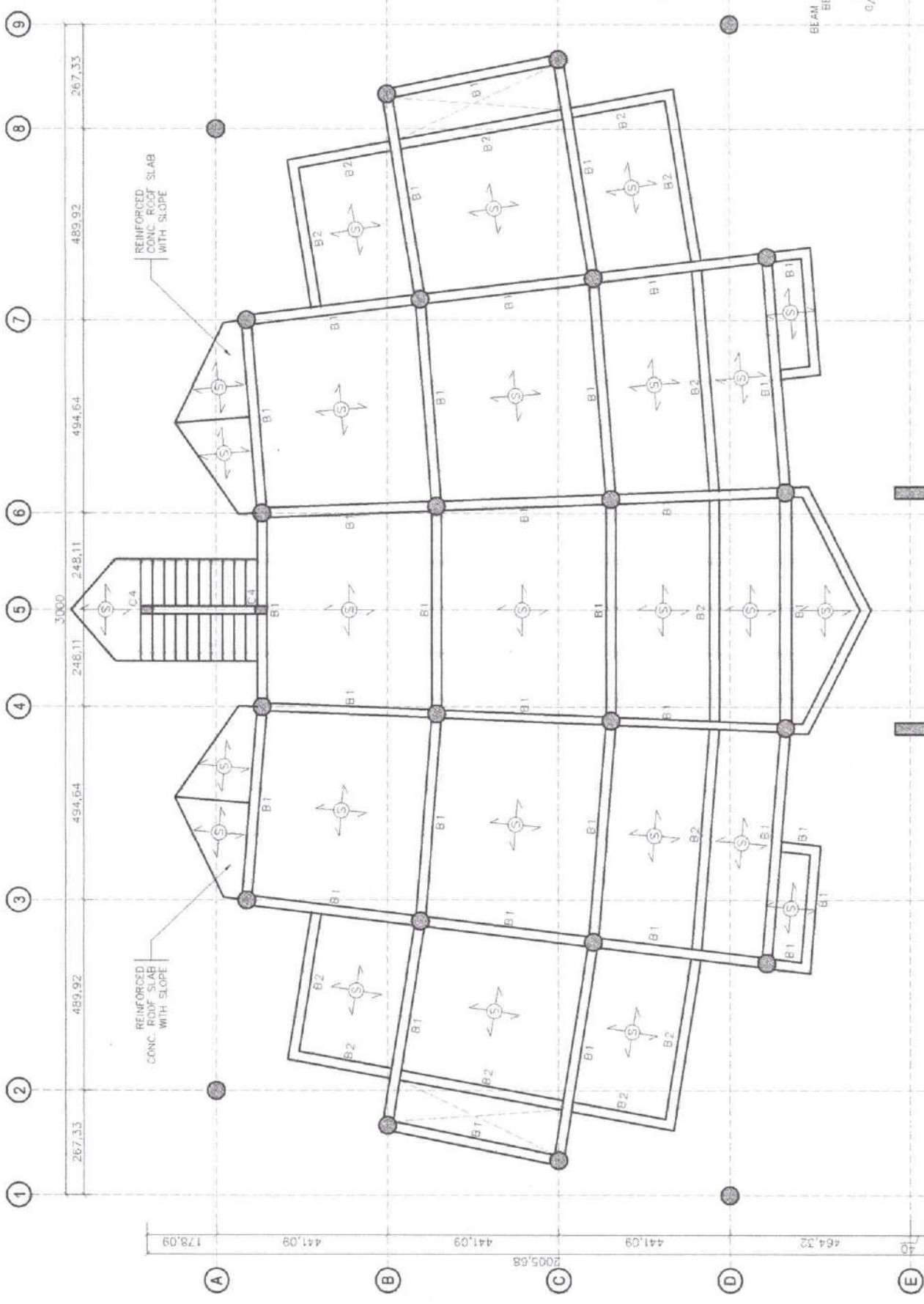
a TIE BEAM LAYOUT
SCALE 1:1100 MTS

<p>Ministry of Transportation & Communication OFFICE OF THE MINISTER Cebu City</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT GAMBAY, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT TIE BEAM LAYOUT PLAN</p>	<p>RA 9166 ARTICLE 16 SECTION 33 Drawings and Specifications and other Technical Documents shall be prepared by the Architect, Engineer, Architectural Designer, Surveyor, or other professional registered with the Board of Engineers, Architects, and Surveyors, and shall be used in accordance with the provisions of and for the other projects or works in the same or similar nature, without the written consent of the Architect or Author of said Documents.</p>	<p>DRAWING BY MOHAMMAD SYRAF K. AHMAD ENGINEER IV</p>	<p>CHECKED AND REVIEWED BY ENGR. ASSHWA D. ALIASGAP ENGINEER III</p>	<p>SUBMITTED BY ENGR. JASSOUR B. HANIBORAL ENGINEER IV</p>	<p>SHEET NO. S-7 14</p>
	<p>PROVIDE MAX. 20mm BUNDLES</p>	<p>EDGE OF GROUND TO REVER</p>	<p>CAP BEAM FOR CONC. PILE</p>	<p>PROVIDE MAX. 20mm BUNDLES</p>	<p>EDGE OF GROUND TO REVER</p>	<p>CAP BEAM FOR CONC. PILE</p>	<p>PROVIDE MAX. 20mm BUNDLES</p>

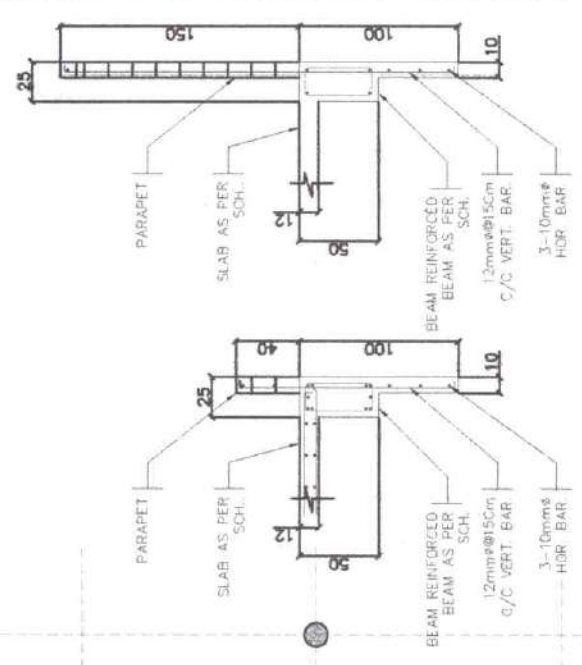
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NOTES

- ALL BEAMS TOP LEVEL SHALL BE REFER TO ARCHITECTURAL SECTION FROM THE DRAWINGS UNLESS OTHERWISE MENTION IN THE DRAWINGS AND CONFIRM AS PER SITE ACTUAL CONDITION DURING THE IMPLEMENTATION, SEE SECTION FOR REF.
 - PROVIDE DRAFT WALL FROM BEAM AS PER ARCHITECTURAL DRAWINGS
 - $f_{cu}=40 \text{ N/mm}^2$
 - $f_y=400 \text{ N/mm}^2$
 - 12 CM THK SLAB WITH REINFORCEMENT AS PER SCHEDULE
1. ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE NOTED.
 2. FOR GENERAL NOTES, REFER TO DWG. NO. S-1 & S-2
 3. CONTRACTOR SHALL PREPARE OR PROVIDE SHOP DRAWINGS AND CALCULATIONS WHEN IT HAVE CHANGES AS PER SITE CONDITION BEFORE PROCEED THE WORK FOR THE APPROVAL OF MOTC ENGINEERING DIVISION.
 4. CONTRACTOR SHALL VERIFY THE ACTUAL SITE CONDITION OF LOCATION AND EXISTING STRUCTURE BEFORE STARTING THE CONSTRUCTION OF THE PROJECT FOR REFERENCE PURPOSE



a BEAM LAYOUT
SCALE 1:100 MTS



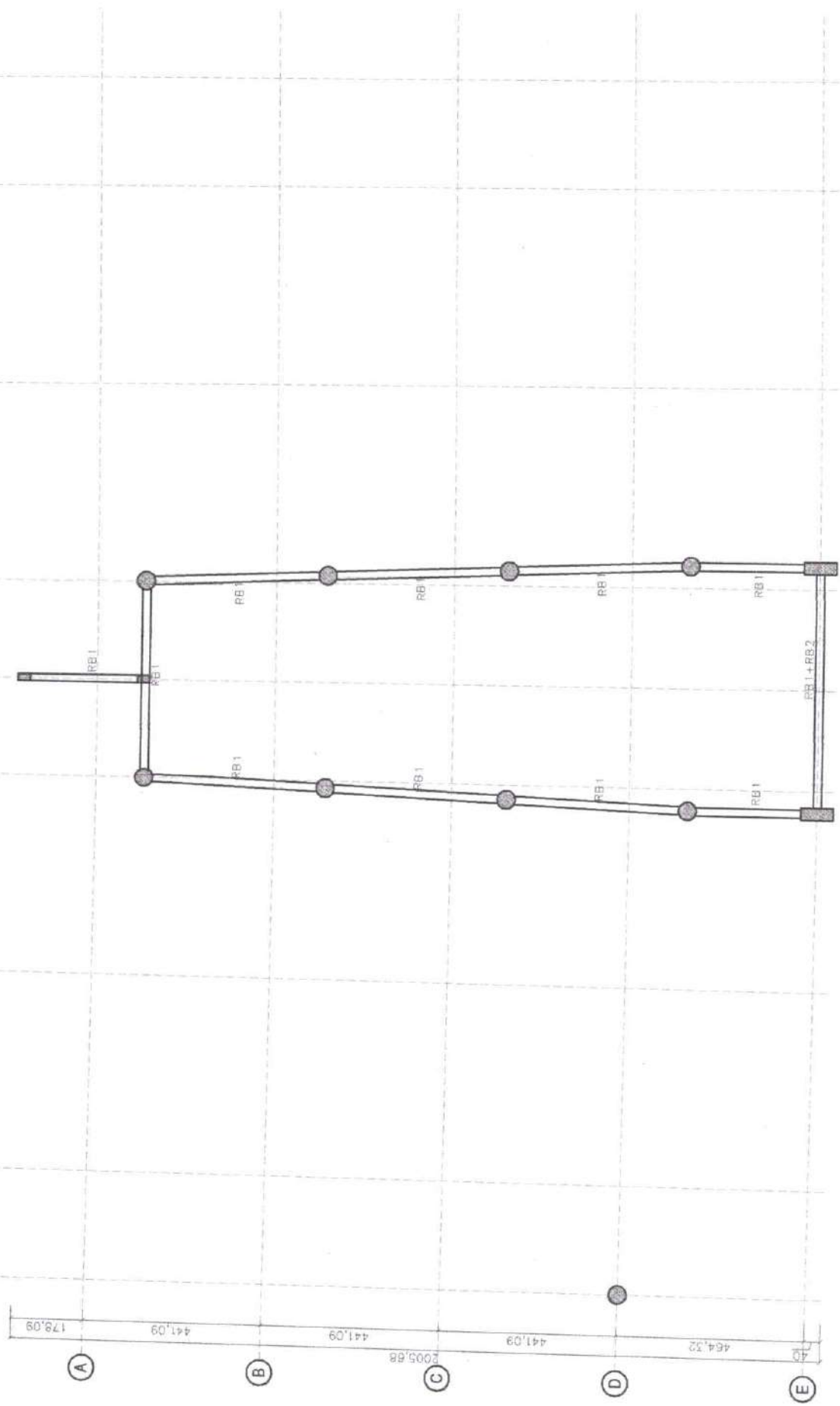
b PERIMETER BEAM DET.
SCALE 1:100 MTS

<p>Ministry of Transportation & Communication OFFICE OF THE MINISTER SARANGANI CORTESADO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT GAMBAR, MOTHER KABUNTIJAN, MAGUINDANAO</p>	<p>SHEET CONTENT BEAM & SLAB LAYOUT PLAN</p>	<p>DRAWN BY NICHAMAD BRAH K. AKAMAD (ENGINEER)</p>	<p>CHECKED AND REVIEWED BY ENGR. JOSEPHINA D. ALLASCAR (ENGINEER)</p>	<p>SUBMITTED BY ENGR. NASRUDDIN B. MASAKAL (ENGINEER)</p>	<p>SHEET NO. S-9 14</p>
	<p>RA 9164, ARTICLE IV, SECTION 33 I am a duly Licensed Professional Engineer in the Philippines and I hereby certify that the design, drawings, specifications, and calculations herein are the original property and documents of the Architect, Engineer, or other professional responsible for the preparation of and for the execution of the project or projects, and I will not, without the written consent of the Architect or Author of said documents, reproduce or use them in any other project or projects.</p>					

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NOTES

- ALL ROOF BEAMS TOP LEVEL SHALL BE REFER TO ARCHITECTURAL SECTION FROM THE DRAWINGS AND OTHERWISE MENTION IN THE DRAWINGS AND CONFIRM AS PER SITE ACTUAL CONDITION DURING THE IMPLEMENTATION, SEE SECTION FOR REF.
 - $f_{cu}=40 \text{ N/mm}^2$
 - $f_y=400 \text{ N/mm}^2$
 - 12 CM THK SLAB WITH REINFORCEMENT AS PER SCHEDULE
1. ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE NOTED.
 2. FOR GENERAL NOTES, REFER TO DWG. NO. S-1 & S-2
 3. CONTRACTOR SHALL PREPARE OR PROVIDE SHOP DRAWINGS AND CALCULATIONS. MAKE IT HAVE CHANGES AS PER SITE CONDITION BEFORE PROCEED THE WORK FOR THE APPROVAL OF MOTC ENGINEERING DIVISION.
 4. CONTRACTOR SHALL VERIFY THE ACTUAL SITE CONDITION OF LOCATION AND EXISTING STRUCTURE BEFORE STARTING THE CONSTRUCTION OF THE PROJECT FOR REFERENCE PURPOSE



BEAM LAYOUT
SCALE 1:100 MTS

<p>Ministry of Transportation & Communication OFFICE OF THE MINISTER Sabah COTABATO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT GAMBAR, MOTHER KAEUNTALAN, MAGUINDANAO</p>	<p>SHEET/CONTR: ROOF BEAM LAYOUT PLAN</p>	<p>PREPARED BY: MOHAMMAD ASRAF K. ANAMAD ENGINEER I</p>	<p>CHECKED AND REVIEWED BY: ENDR. MICHA D. ELUSGAR ENGINEER II</p>	<p>SUBMITTED BY: ENDR. MOHAMMAD B. MASRAKAL ENGINEER IV</p>	<p>SHEET NO: S-10 14</p>
	<p>RAJONG ARTICLES SECTION 13 Drawings and specifications and other technical documents may depend, stages or parts in instruments of services are for Intellectual Property and documents of the architect, unless the subject for each they are to be prepared by the architect. The architect is not responsible for the reproduction of and for other projects or buildings whether executed partly or in whole, without the written consent of the Architect or Author of said Documents.</p>	<p>DRAWN BY: MOHAMMAD ASRAF K. ANAMAD ENGINEER I</p>	<p>ENGINEER III</p>	<p>ENGINEER II</p>	<p>ENGINEER IV</p>	<p>ENGINEER IV</p>

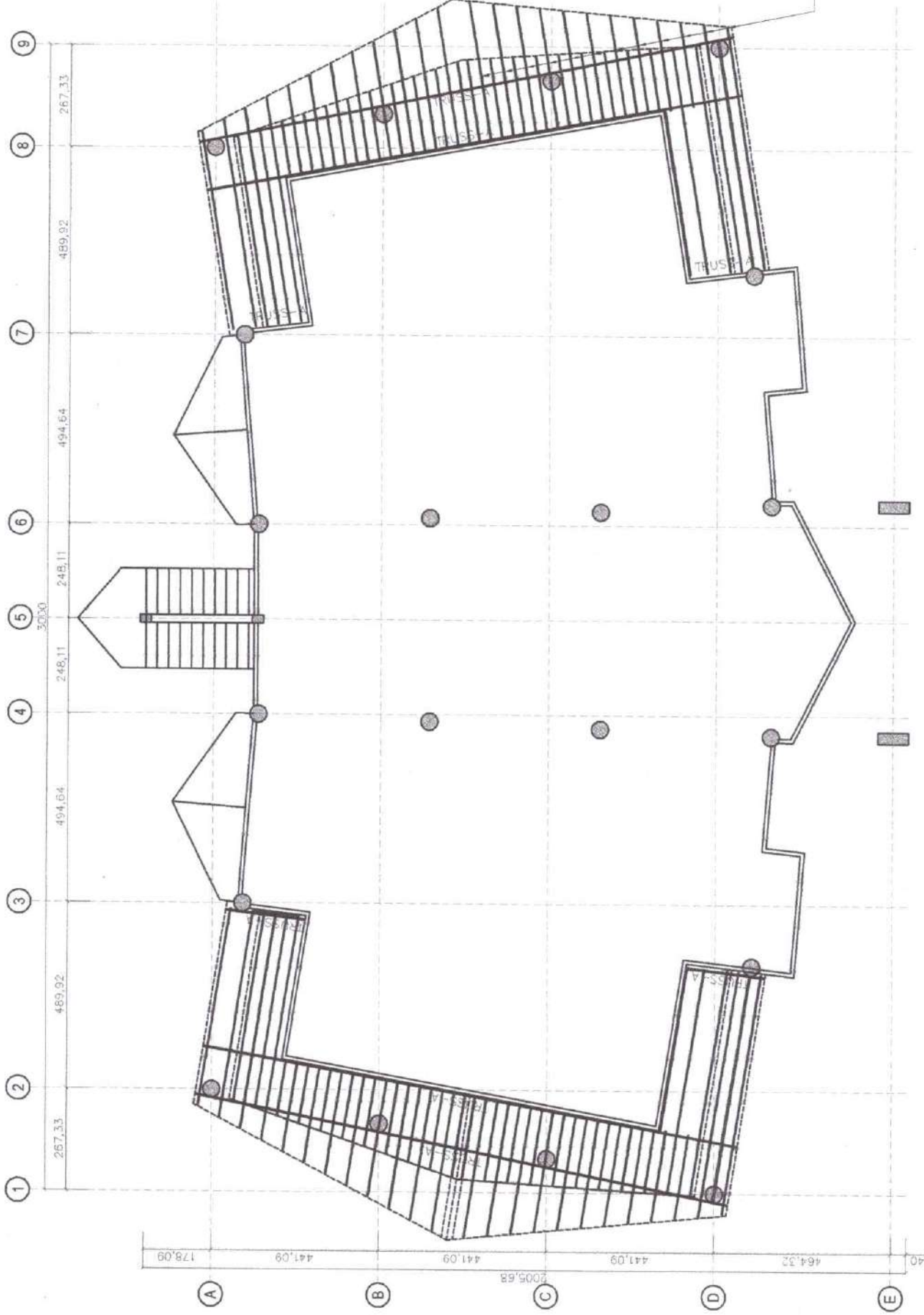
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NOTES

• TRUSS MEASUREMENT SHOULD VERIFY AS PER SITE ACTUAL CONDITION BEFORE FABRICATION

- $f_{cu}=40 \text{ N/mm}^2$
- $f_y=400 \text{ N/mm}^2$
- 12 CM THK SLAB WITH REINFORCEMENT AS PER SCHEDULE

1. ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE NOTED.
2. FOR GENERAL NOTES, REFER TO DWG. NO. S-1 & S-2
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4. CONTRACTOR SHALL VERIFY THE ACTUAL SITE CONDITION OF LOCATION AND EXISTING STRUCTURE BEFORE STARTING THE CONSTRUCTION OF THE PROJECT FOR REFERENCE PURPOSE



a FIRST LEVEL ROOF LAYOUT
SCALE 1:100 MTS

<p>MINISTRY OF TRANSPORTATION & COMMUNICATION KUALA LUMPUR, MALAYSIA</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT CAMBAR, MOTHER KABUPATEN, MAGUINDANAO</p>	<p>SHEET CONTINI FIRST LEVEL ROOF LAYOUT PLAN</p>	<p>DRAWN MOHAMMAD RAFI K. AHMAD ENGINEER</p>	<p>CHECKED AND REVIEWED BY: ENGR. SIFATHA J. ALIASGAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. MASRURY B. MASAFAL ENGINEER IV</p>	<p>SHEET NO. S-11 14</p>
	<p>IN ACCORDANCE WITH SECTION 33 Drawings and Specifications and other Contract Documents shall signed, stamped or sealed, as instruments of service, use the professional Property and documents of the Engineer. This drawing is not to be used for any other project associated or to make copies of said documents for use in the repetition of use for other projects or buildings. The repetition of use for other projects or buildings without the consent of the architect or holder of said documents.</p>					

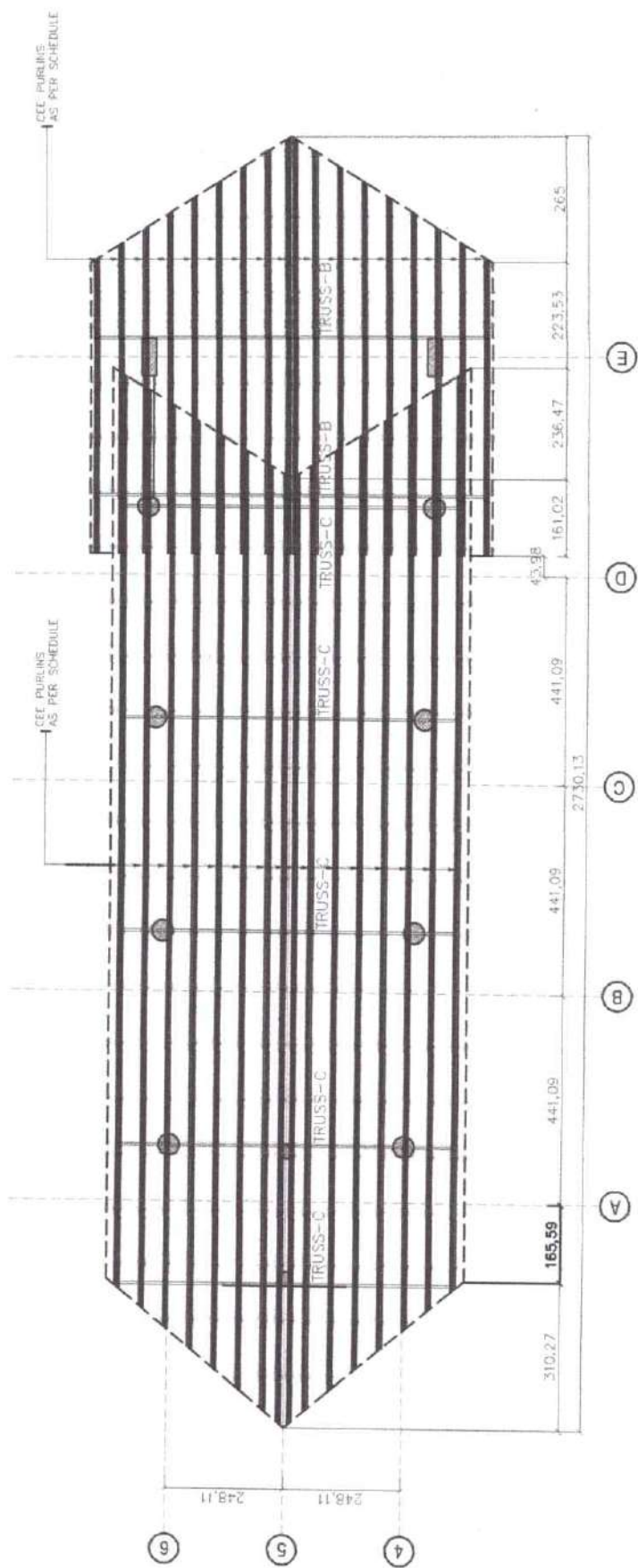
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NOTES

• TRUSS MEASUREMENT SHOULD VERIFY AS PER SITE ACTUAL CONDITION BEFORE FABRICATION

- $f_{cu} = 40 \text{ N/mm}^2$
- $f_y = 400 \text{ N/mm}^2$
- 12 CM THK SLAB WITH REINFORCEMENT AS PER SCHEDULE

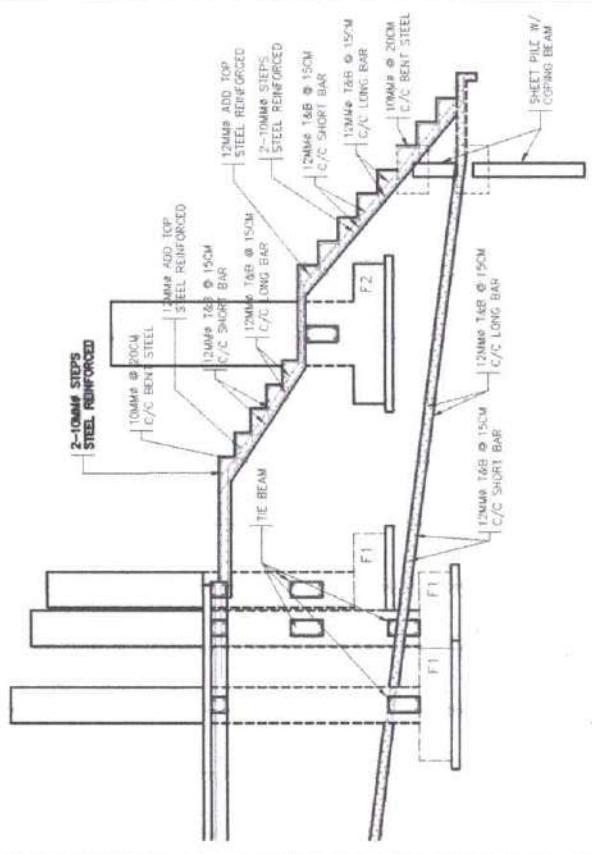
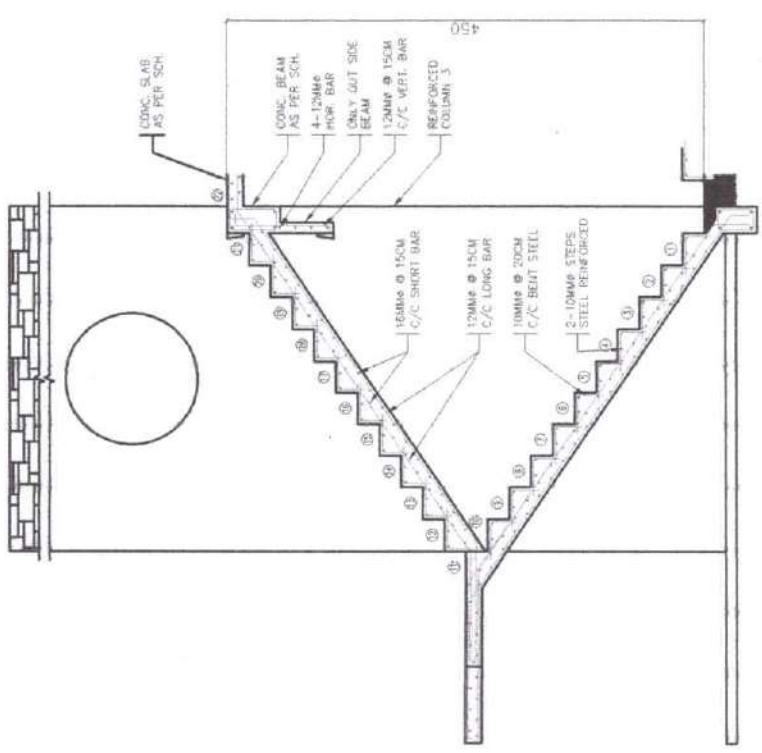
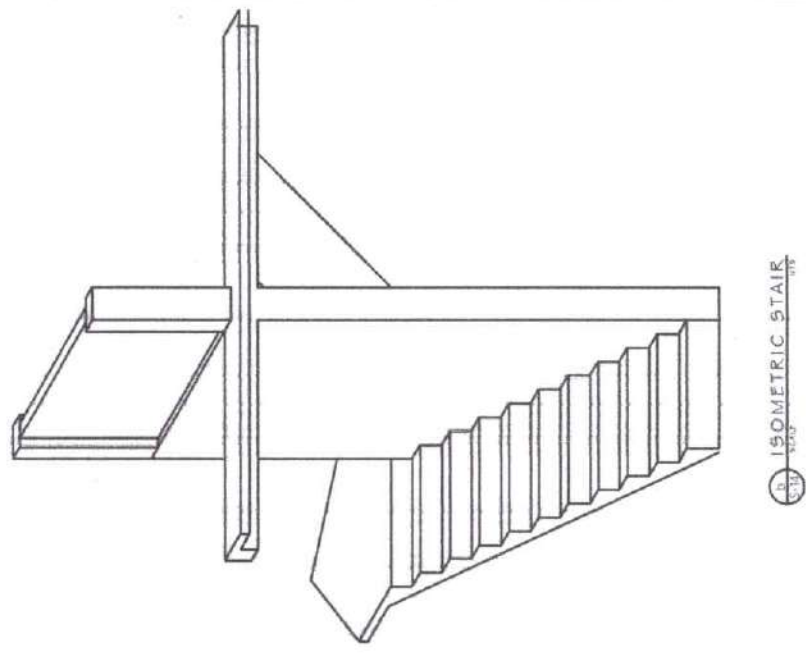
1. ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE NOTED.
2. FOR GENERAL NOTES, REFER TO DWG. NO. S-1 & S-2
3. CONTRACTOR SHALL PREPARE OR PROVIDE SHOP DRAWINGS AND CALCULATIONS WHEN IT HAVE CHANGED AS PER SITE CONDITION BEFORE PROCEED THE WORK FOR THE APPROVAL OF MOTC ENGINEERING DIVISION.
4. CONTRACTOR SHALL VERIFY THE ACTUAL SITE CONDITION OF LOCATION AND EXISTING STRUCTURE BEFORE STARTING THE CONSTRUCTION OF THE PROJECT FOR REFERENCE PURPOSE



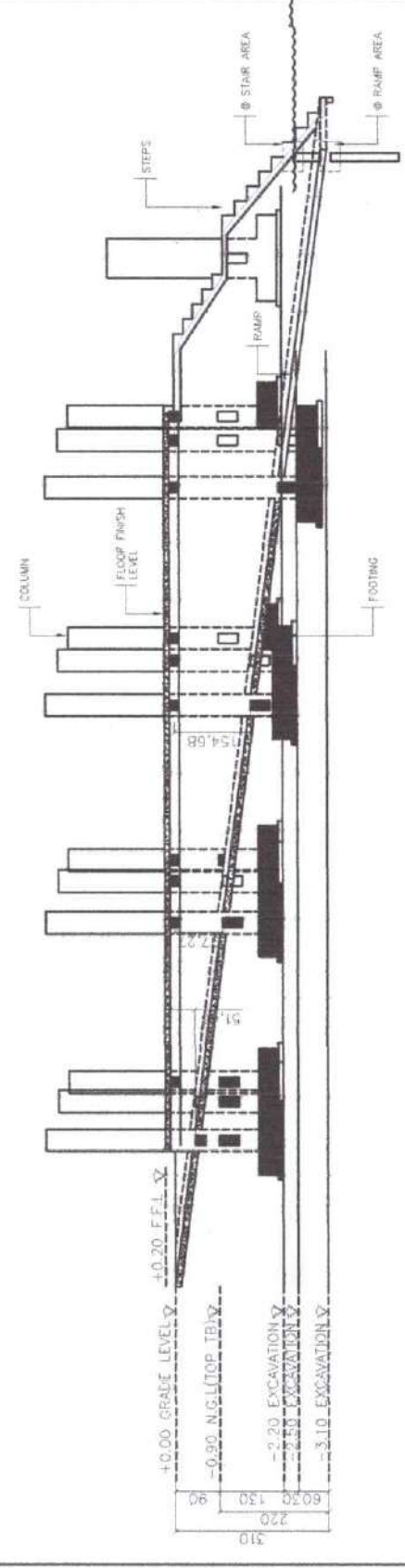
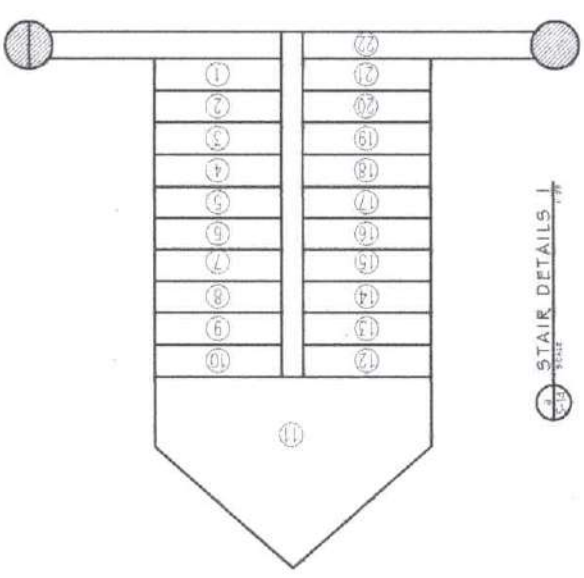
a 2ND LEVEL ROOF LAYOUT
SCALE 1:1100 MTS

	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT GAMBAR, MOTHER KABUTALAN, MAGLINDANAO</p>	<p>SHEET CONTENT 2ND LEVEL ROOF LAYOUT PLAN</p>	<p>DESIGNED BY MCHAMAD ARAF K. ANAMAD ENGINEER</p>	<p>CHECKED AND REVIEWED BY ENGR. CHRISTINA D. ALASGAP ENGINEER II</p>	<p>SUBMITTED BY ENGR. MASTROUJI B. MASAKAL ENGINEER IV</p>	<p>SHEET NO. S-12 14</p>
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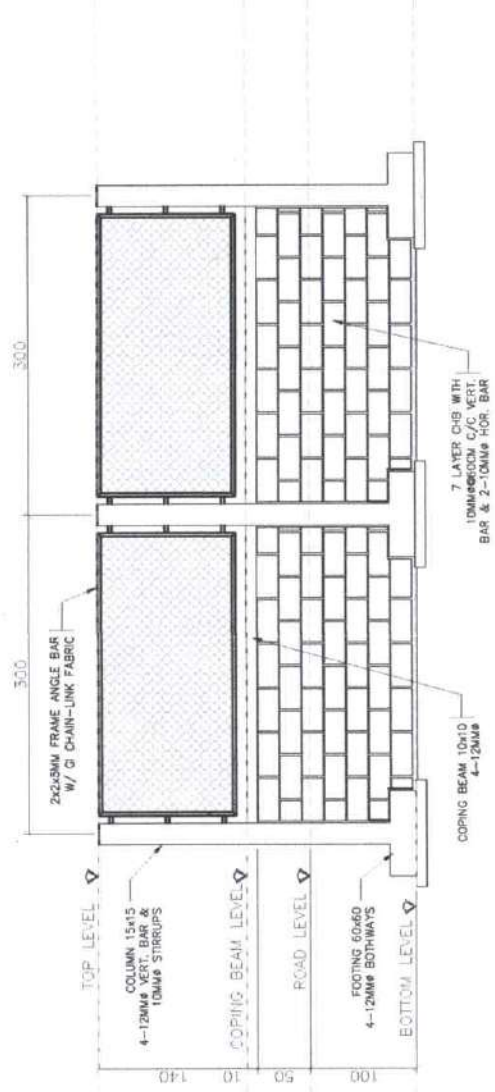
STAIR AND RAMP DETAILS 2
SCALE: 1/20



SECTION DETAILS
SCALE: 1/20

STAIR DETAILS
SCALE: 1/20

<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER SABAH COTABATO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT CAMBAR, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT SECTION AND ISOMETRIC</p>	<p>DESIGNER MOHAMMAD ARAF K. ANMAD ENGINEER</p>	<p>CHECKED AND REVIEWED BY ENGR. ASIFHA D. ALMAGAR ENGINEER II</p>	<p>SUBMITTED BY ENGR. ROSSOUIN B. MAGSAL ENGINEER IV</p>	<p>SHEET NO. S-14 14</p>
	<p>IN ACCORDANCE WITH SECTION 103 Drawings and Specifications and other Contract Documents shall apply, changed or added to requirements of Service, we the Intellectual Property and Inventions of the Architect, unless the design for which they are made is added or to the case of said documents, for use in the preparation of and for other projects or buildings, without incurring penalty or in whole, without the written consent of the Architect or Author of said Documents.</p>					



a SECTION
A-2 SCALE N.T.S

b ELEVATION
A-2 SCALE N.T.S

	<p>Ministry of Urban Planning and Construction Riyadh City</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER. LANG AT GAMBAR, MOTHER HABUTALAN, MAGUNDAHAD</p>	<p>SHEET CONTENT: FENCE DETAILS</p>	<p>140006-ARTICLE BY SECTION 13 Arrange and Specifications and other Contract Documents for the Project. The Contractor shall be responsible for obtaining all necessary permits and approvals from the relevant authorities. The Contractor shall be responsible for obtaining all necessary permits and approvals from the relevant authorities. The Contractor shall be responsible for obtaining all necessary permits and approvals from the relevant authorities.</p>	<p>DRAWN BY: MOHAMAD SAFAH N. ALHAD ENGINEER</p>	<p>CHECKED AND REVIEWED BY: ENGR. ASMEHA D ALJASAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. MOHAMAD SAFAH N. ALHAD ENGINEER</p>	<p>SHEET No. S-14B 14</p>
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SANITARY / PLUMBING

1. DRAINAGE LAYOUT PLAN
2. WATER LAYOUT PLAN
3. WATER TANK LAYOUT PLAN
4. PIPING, AND SEPTIC TANK DET.
5. CONNECTION DETAILS

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PLUMBING NOTES

ALL PLUMBING WORKS AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE OF THE PHIL. AND THE LOCAL PLUMBING CODE REQUIRED.

PROVIDE 3/4" DIA. GATE VALVE FOR WATER SUPPLY FROM WATER SOURCE.

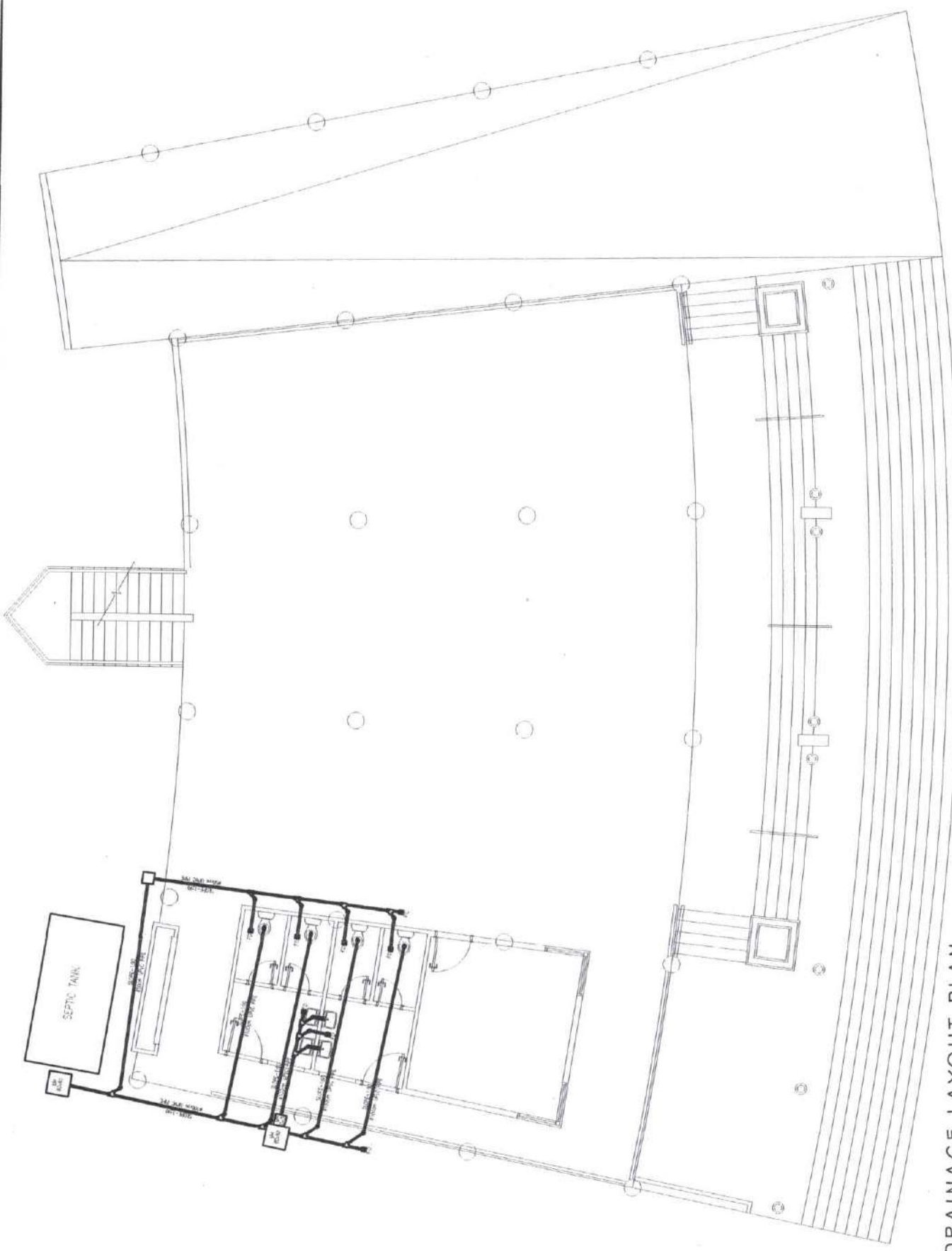
ALL PPR, PVC AND G.I. PIPE TO BE USED SHALL BE BRAND NEW AND HIGH QUALITY STANDARD AND APPROVED FOR BOTH LOCATION AND PURPOSES.

ALL CLEAN OUT SHALL BE FLUSHED MOUNTED ON FLOOR EXCEPT AT AREAS SUBJECT TO TRAFFIC WHICH SHALL BE FLUSHED TO WALL, PROVIDE COVER CAPS.

THE SLOPE OF SEWER LINE SHALL BE 2% FOR DRAIN LINE, IT SHALL BE 1% FOR THE INLET PIPE SHALL BE 2" HIGHER THAN SIPHON PIPE. PROVIDE VENT AS INDICATED.

ALL PLUMBING WORKS AND INSTALLATIONS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER PLUMBER.

LEGEND



DRAINAGE LAYOUT PLAN
SCALE 1:1100 MTS

<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER COTABATO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT GANBAR, NOTHER (ABUJITALAN), MAGUINDANAO</p>	<p>SHEET CONTENT DRAINAGE LAYOUT PLAN, FLOOR FLANGE DETAILS, AND SEPTIC TANK DETAILS</p>	<p>RA 9298, ARTICLE IV, SECTION 13 I hereby certify that this drawing and specifications are the property of the architect, engineer, contractor or other person to whom it was prepared, and it shall remain the property of the architect, engineer, contractor or other person to whom it was prepared, and it shall remain the property of the architect or author of said drawing, contract or other project or design, in whole or in part, without the written consent of the architect or author of said drawing.</p>	<p>DRAWN BY: MOHAMAD MASRAF I. AL-MAD ENGINEER</p>	<p>CHECKED AND REVIEWED BY: ENGR. EUPHRAS D. GASGAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. IHSANAH S. GALAL ENGINEER IV</p>	<p>SHEET No. P-1 5</p>
	<p>THIS DRAWING IS THE PROPERTY OF MOTC ENGINEERING DIVISION AND IT CANNOT BE REPRODUCED, COPIED OR, CIRCULATED WITHOUT THE WRITTEN CONSENT OF THE MOTC ENGINEERING DIVISION</p>						

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PLUMBING NOTES

ALL PLUMBING WORKS AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND THE LOCAL PLUMBING CODE REQUIRED.

PROVIDE 3/4" DIA. GATE VALVE FOR WATER SUPPLY FROM WATER SOURCE.

ALL PPR, PVC AND G.I. PIPE TO BE USED SHALL BE BRAND NEW AND HIGH QUALITY STANDARD AND APPROVED FOR BOTH LOCATION AND PURPOSES.

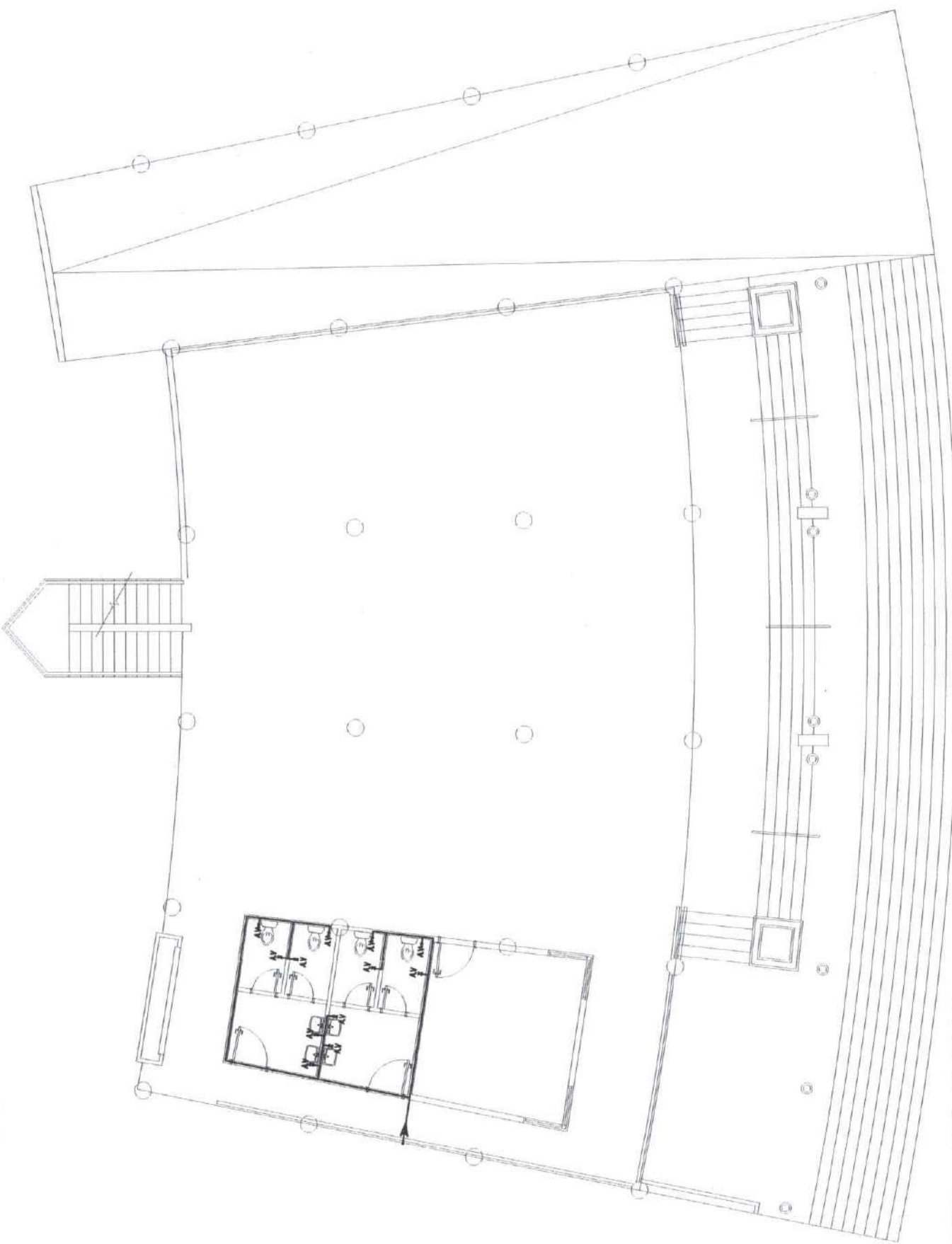
ALL CLEAN OUT SHALL BE FLUSHED MOUNTED ON FLOOR EXCEPT AT AREAS SUBJECT TO TRAFFIC WHICH SHALL BE FLUSHED TO WALL, PROVIDE COVER CAPS.

THE SLOPE OF SEWER LINE SHALL BE 2% FOR DRAIN LINE IT SHALL BE 1% THE INLET PIPE SHALL BE 2" HIGHER THAN SIPHON PIPE. PROVIDE VENT AS INDICATED.

ALL PLUMBING WORKS AND INSTALLATIONS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER PLUMBER.

LEGEND

	MANHOLE
	GULLY-TRAP/P-TRAP
	VENT THROUGH ROOF
	MANHOLE COVER
	WESTERN CLOSET
	LAVATORY
	SHOWER SET
	FLOOR DRAIN
	FLOOR CLEAN OUT
	CLEAN OUT



WATER LAYOUT PLAN
SCALE 1:100 MTS

<p>Department of Transportation & Communication OFFICE OF THE MINISTER CEBU CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF FEWER LANE AT GAMBAR, MOTHER KABUNTALAN, MAGUINDAYAN</p>	<p>SHEET CONTENT: WATER LAYOUT PLAN</p>	<p>NO. 1026, ARTICLE IV, SECTION 103 Drawings and Specifications and other Contract Documents may be used in whole or in part, as indicated by the architect, without the consent of the architect, when the architect is not involved or not. It shall be the responsibility of the contractor to verify the accuracy of the drawings and specifications and to make copies of said documents for use in the construction of the project. The contractor shall be responsible for the accuracy of the drawings and specifications and for the consent of the architect or author of said documents.</p>	<p>DRAWN BY: MCHAMALASRAF K. ALYAO ENGINEER</p>	<p>CHECKED AND REVIEWED BY: RIZAL C. CALASAGAR ENGINEER II</p>	<p>SUBMITTED BY: [Signature] ENGR. MASRODIT B. MASRAL ENGINEER IV</p>	<p>SHEET NO. P-2 5</p>
	<p>PLUMBING WORKS AND INSTALLATIONS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND THE LOCAL PLUMBING CODE REQUIRED.</p>						

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PLUMBING NOTES

ALL PLUMBING WORKS AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE OF THE PHIL. AND THE LOCAL PLUMBING CODE REQUIRED.

PROVIDE 3/4" DIA. GATE VALVE FOR WATER SUPPLY FROM WATER SOURCE.

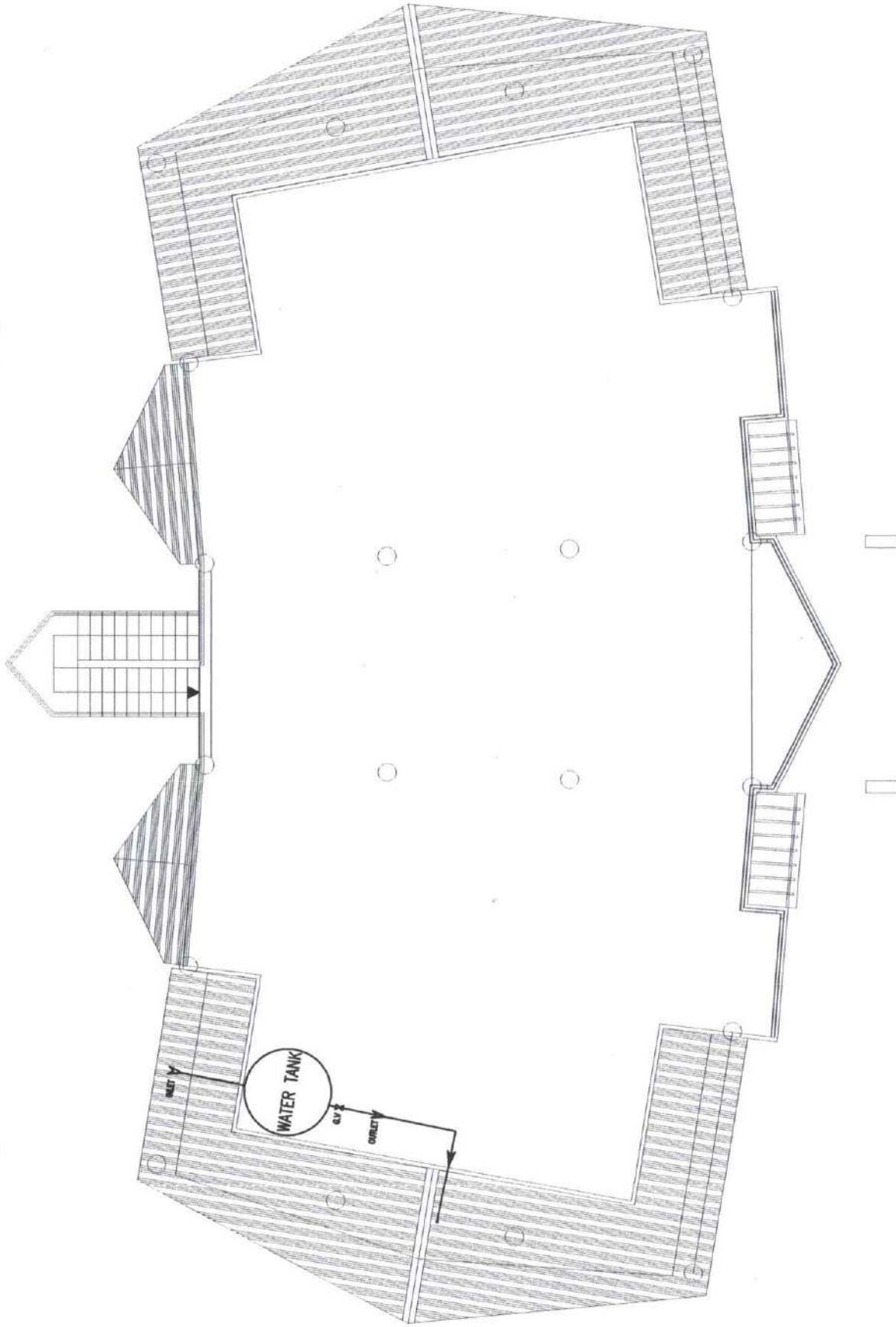
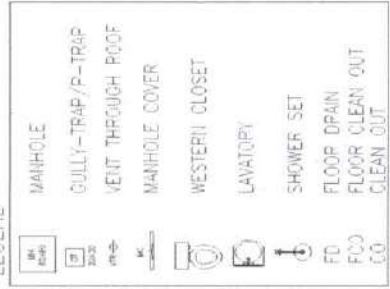
ALL PPR, PVC AND G.I. PIPE TO BE USED SHALL BE BRAND NEW AND HIGH QUALITY STANDARD AND APPROVED FOR BOTH LOCATION AND PURPOSES.

ALL CLEAN OUT SHALL BE FLUSHED MOUNTED ON FLOOR EXCEPT AT AREAS SUBJECT TO TRAFFIC WHICH SHALL BE FLUSHED TO WALL, PROVIDE COVER CAPS.

THE SLOPE OF SEWER LINE SHALL BE 2% FOR DRAIN LINE, IT SHALL BE 1% THE INLET PIPE SHALL BE 2" HIGHER THAN SIPHON PIPE. PROVIDE VENT AS INDICATED.

ALL PLUMBING WORKS AND INSTALLATIONS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A LICENCED MASTER PLUMBER.

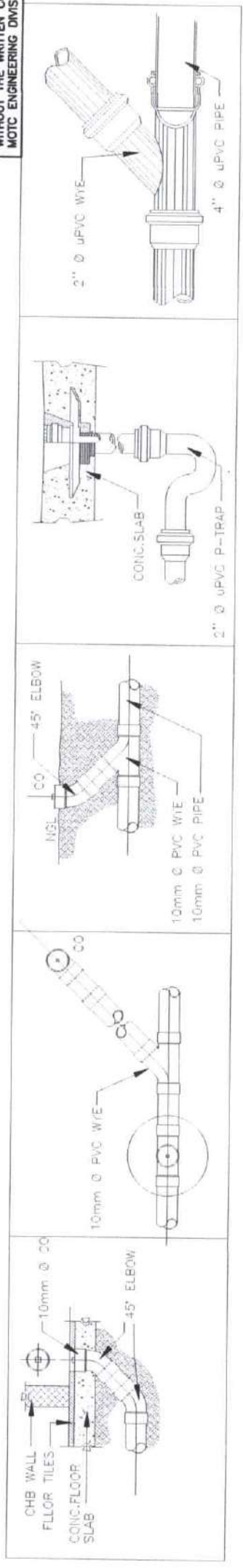
LEGEND



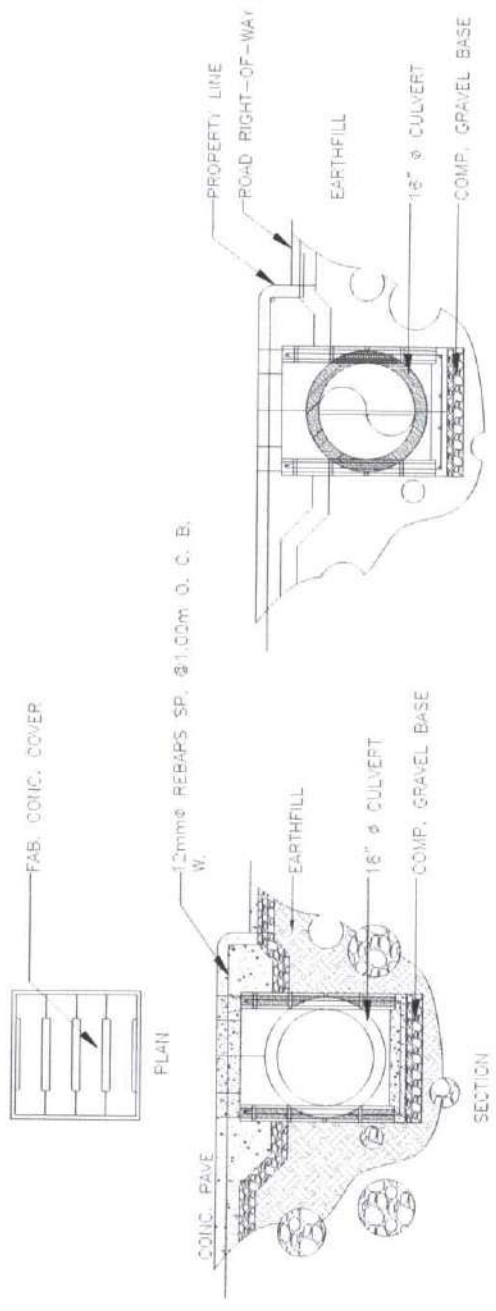
WATER TANK LAYOUT PLAN
SCALE 1:100 MTS

<p>Department of Transportation & Communication OFFICE OF THE MINISTER Bantay Cebu, Cebu City</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT GAMBAP, MOTHER KABUNTALAN, MAGUINDANAO</p>	<p>SHEET CONTENT: WATER TANK LAYOUT PLAN</p>	<p>REVISIONS/ARTICLE VI SECTION 2 Drawings and specifications and other Contract Documents fully agreed, stamped or signed, as requirements of Article 2 of the Philippine Building Code and the provisions of the Act, shall be the basis for the design and construction of the project or work. It shall be unlawful for any person to apply or to make copies of said Documents for use in the execution of a job for their projects or buildings, or for any other purpose, without the written consent of the architect or Author of said Documents.</p>	<p>DRAWN BY: MICHAEL ESPAF A. AHIMAD ENGINEER</p>	<p>CHECKED AND REVIEWED BY: EUGENE LEOPOLDO MASCAR ENGINEER III</p>	<p>SUBMITTED BY: [Signature] ENGR. REPRODUCIBLE, JASUAL ENGINEER IV</p>	<p>SHEET NO. P-3 5</p>
	<p>THIS DRAWING IS THE PROPERTY OF MOTC ENGINEERING DIVISION AND IT CANNOT BE REPRODUCED, COPIED OR CIRCULATED WITHOUT THE WRITTEN CONSENT OF THE MOTC ENGINEERING DIVISION</p>						

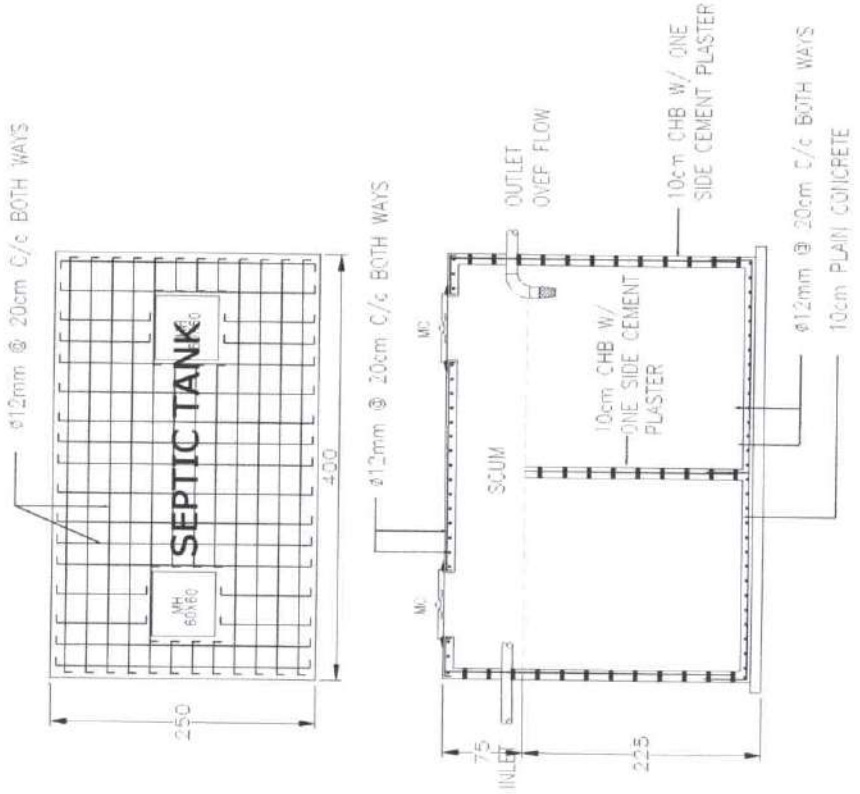
THIS DRAWING IS THE PROPERTY OF MOTC ENGINEERING DIVISION AND IT CANNOT BE REPRODUCED, COPIED OR CIRCULATED WITHOUT THE WRITTEN CONSENT OF THE MOTC ENGINEERING DIVISION



a CONNECTION AND FITTINGS DETAILS
SCALE P-4 NTS



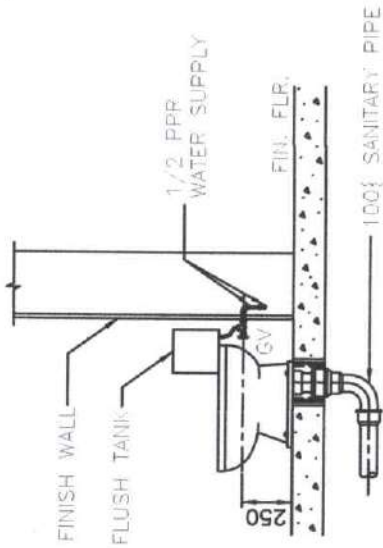
b DETAILS OF CATCH BASIN/MANHOLE
SCALE P-4 NTS



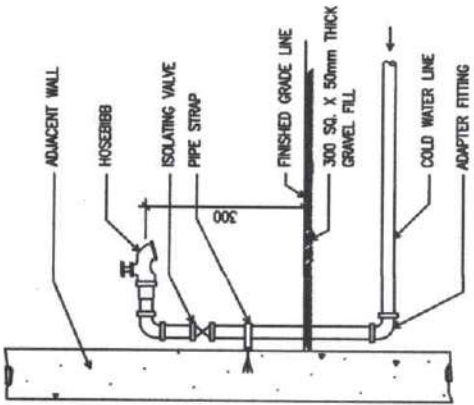
c STR. DETAILS OF SEPTIC TANK
SCALE P-4 NTS

	<p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER SARAWAK COTABATO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF REVER LANG AT GAMBAR, MOTHER HABUTUSLAN, MASJIDINAGAO</p>	<p>SHEET CONTENT: PIPING, AND SEPTIC TANK DET.</p>	<p>DESIGNER: MOHAMAD SPAF I. AHMAD ENGINEER</p>	<p>CHECKED AND REVIEWED BY: FOR SHUHUA C. ALIASGAR ENGINEER II</p>	<p>SUBMITTED BY: ENGINEER RESPONSIBLE: MOHAMAD SPAF I. AHMAD ENGINEER</p>	<p>SHEET No. P-4 5</p>
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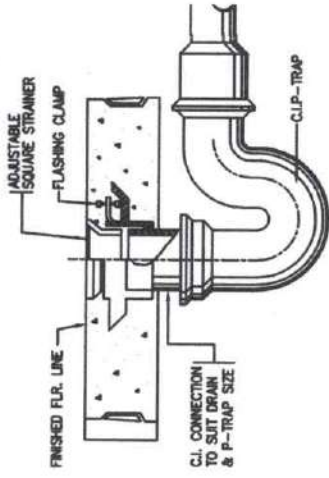
THIS DRAWING IS THE PROPERTY OF MOTC ENGINEERING DIVISION AND IT CANNOT BE REPRODUCED, COPIED OR CIRCULATED WITHOUT THE WRITTEN CONSENT OF THE MOTC ENGINEERING DIVISION



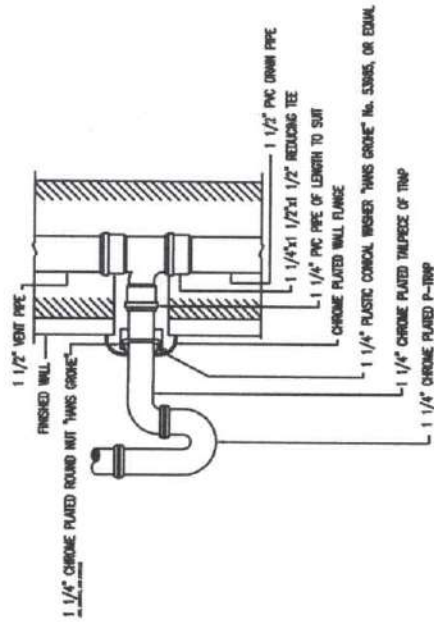
a WATER CLOSET INSTALLATION DETAILS
SCALE: P-5 NTS



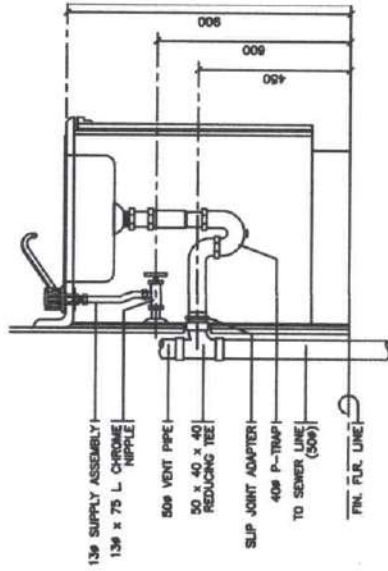
b HOSE BIB INSTALLATION DETAILS
SCALE: P-5 NTS



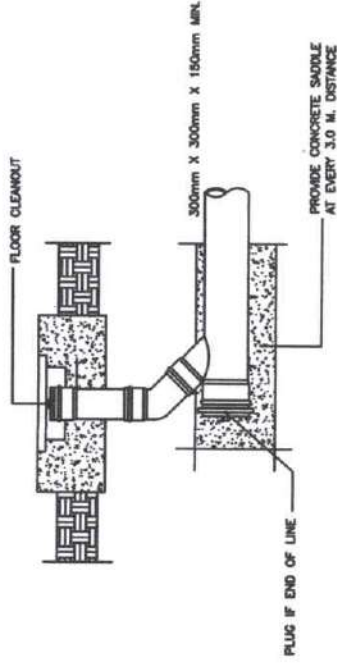
c FLOOR DRAIN DETAILS
SCALE: P-5 NTS



d LAV. OUTLET CONNECTION DET.
SCALE: P-5 NTS



e KITCHEN SINK INSTALLATION DETAILS
SCALE: P-5 NTS



f GRND. CLEANOUT DETAILS
SCALE: P-5 NTS



Ministry of Transportation & Communication
OFFICE OF THE MINISTER
SABIN
COTABATO CITY

PROJECT & LOCATION
CONSTRUCTION OF PEVER LANG AT GAMBAR, MOTHER TABUNTALAI, MAGUINDANAO

SHEET CONTENT
CONNECTION DETAILS

FOR ALL ARTICLE IN SECTIONS
Drawings and Specifications and other Contract Documents are to be read in conjunction with the General Conditions of Contract and the Instructions to Bidders. The Engineer shall be responsible for the interpretation of the drawings and specifications. The Engineer shall be responsible for the coordination of all work under the contract. The Engineer shall be responsible for the preparation of all reports and documents required for the project. The Engineer shall be responsible for the coordination of all work under the contract. The Engineer shall be responsible for the preparation of all reports and documents required for the project.

DRAWN BY:
MOHAMAD ASRAF N. ARJAD
ENGINEER I

CHECKED AND REVIEWED BY:
EVER SUIPIA D. ALASGAP
ENGINEER II

SUBMITTED BY:
[Signature]
ENGR. INSPROPHIL MASAPAL
ENGINEER IV

SHEET NO.
P-5
5

ELECTRICAL

SPECIFICATION:

GENERAL NOTE:

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE(PEC) THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THESE REQUIREMENTS OF THE LOCAL POWER COMPANY. ALL ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

- THE ELECTRICAL SERVICE POWER 1-PHASE, 2-WIRE, 230VOLTS AC, 60Hz.

3. WIRING METHOD SHALL BE AS FOLLOWS:

- FEEDERS AND RISER- REGID METTALIC CONDUIT PIPE(RMC)
- LIGHTING, POWER - POLYVINYL CHLORIDE CONDUIT PIPE(PVC) RECEPTACLE BRANCH CKT. & AUXILIARY

GENERAL NOTE:

- ALL WIRE SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE THIN UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5MM SQUARE AND INSULATED FOR 600VOLTS. SMALLEST RACEWAY SHALL BE 15MM CONDUIT TRADE/NOMINAL SIZE.

- ALL OUTLET BOXES SHALL BE GALVANIZE GAUGE NO. 16 DEEP WITH FACTORY KNOCKOUTS.

- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE.

- GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.

GENERAL NOTE:

- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
 - LIGHT SWITCH -1.20M ABOVE THE FINISH FLOOR
 - CONVENIENCE OUTLET -0.3M ABOVE THE FINISH FLOOR
 - SAFETY SWITCH -1.80M ABOVE THE FINISH FLOOR
 - EVERY OVER 10M FROM THE SOURCE MUST ADD ONE STEP WIRE

LEGEND:

SYMBOL	DESCRIPTION
	CEILING LIGHT OUTLET
	4 FEET FLUORESCENT LAMP
	ON/OFF SWITCH
	THREE WAY SWITCH
	CONVENIENCE OUTLET
	AIR CONDITIONING UNIT OUTLET
	LIGHTING PANEL BOARD
	POWER LOAD PANEL BOARD
	WALL LAMP
	RACEWAY CONDUIT CONCEALED IN CEILING
	RACEWAY CONDUIT CONCEALED UPPER FLOOR
	ELECTRIC SERVICE METER KWH
	SERVICE ENTRANCE

LOAD SCHEDULE:

LIGHTING LOADS

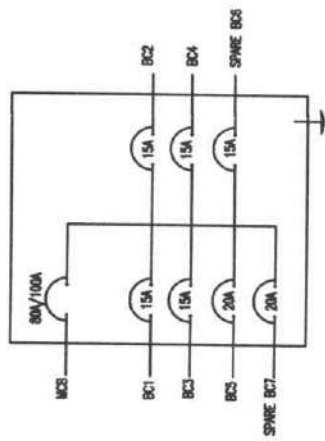
BRANCH	DESCRIPTION	QUANTITY	WATTAGE PER UNIT	WIRE TYPE	CONDUIT TYPE	CONDUIT SIZE (DIAMETER)
1	CEILING LIGHT	25	250	1.60	1.60	1.60
2	FLUORESCENT LIGHT	22	270	1.60	1.60	1.60
3	WALL LAMP	12	250	1.60	1.60	1.60
4	WALL LAMP	27	270	1.60	1.60	1.60

POWER LOADS

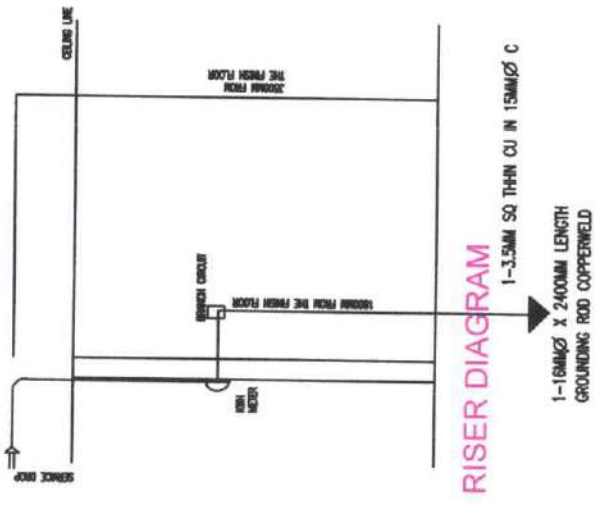
BRANCH	DESCRIPTION	QUANTITY	WATTAGE PER UNIT	WIRE TYPE	CONDUIT TYPE	CONDUIT SIZE (DIAMETER)
1	RECEPTACLE	5	180	1.60	1.60	1.60
2	RECEPTACLE	1	180	1.60	1.60	1.60
3	RECEPTACLE	1	180	1.60	1.60	1.60
4	RECEPTACLE	2	180	1.60	1.60	1.60
5	RECEPTACLE	1	180	1.60	1.60	1.60
6	RECEPTACLE	1	180	1.60	1.60	1.60

TRANSFORMER RATED = 200VA
 MINIMUM WIRE SIZE = 1.60mm²
 MINIMUM CONDUIT SIZE = 1.60mm²
 TOTAL LOAD = 1328VA

SAFETY SWITCH:



RISER DIAGRAM



Department of Transportation & Communication
OFFICE OF THE MINISTER
 BARMM
 COTABATO CITY

PROJECT & LOCATION
CONSTRUCTION OF RIVER LANDING
 at Gambar, Mother Kabuntalan,
 Maguindanao

SHEET CONTAINS:
 SPECIFICATION, LEGEND,
 LOAD SCHEDULE, SAFETY
 SWITCH, RISER DIAGRAM

NO. AND ARTICLE REFERENCE
 Drawings and Specifications and other Contract Documents duly approved or revised, as indicated on Sheets, are the basis for the execution and Documents of the Project, whether the object for which they were made be executed or not. In all cases, the contractor shall be responsible for the correct interpretation of said Documents for use in the execution of and for other projects or buildings, whether executed jointly or in which, without the written consent of the Architect or Author of said Documents.

PREPARED BY:

 ENGR. RANDOL T. BASCERA
 COG-ELECTRICAL

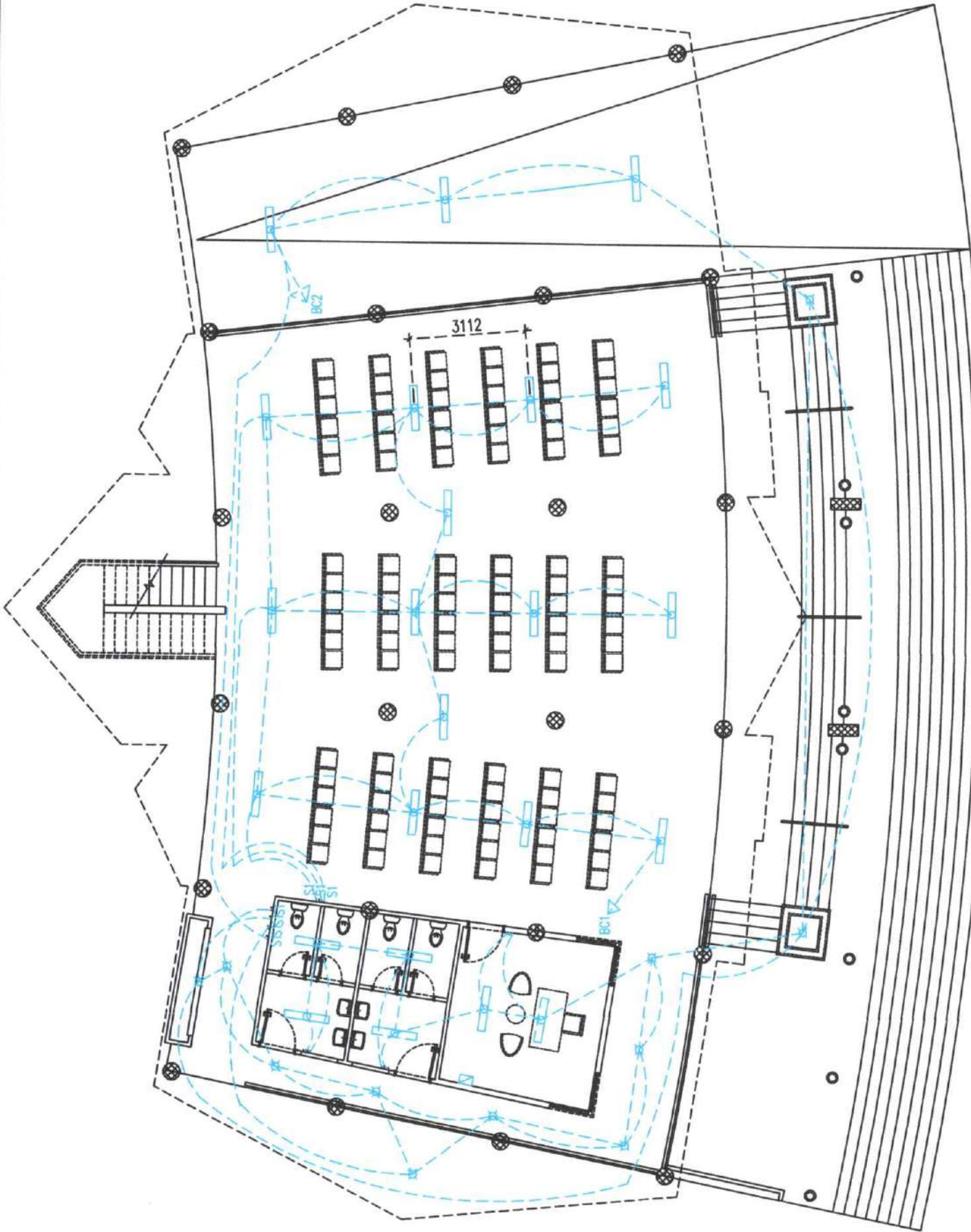
CHECKED AND REVIEWED BY:

 ENGR. ASSUNHA D. ALUNGGAR
 ENGINEER II

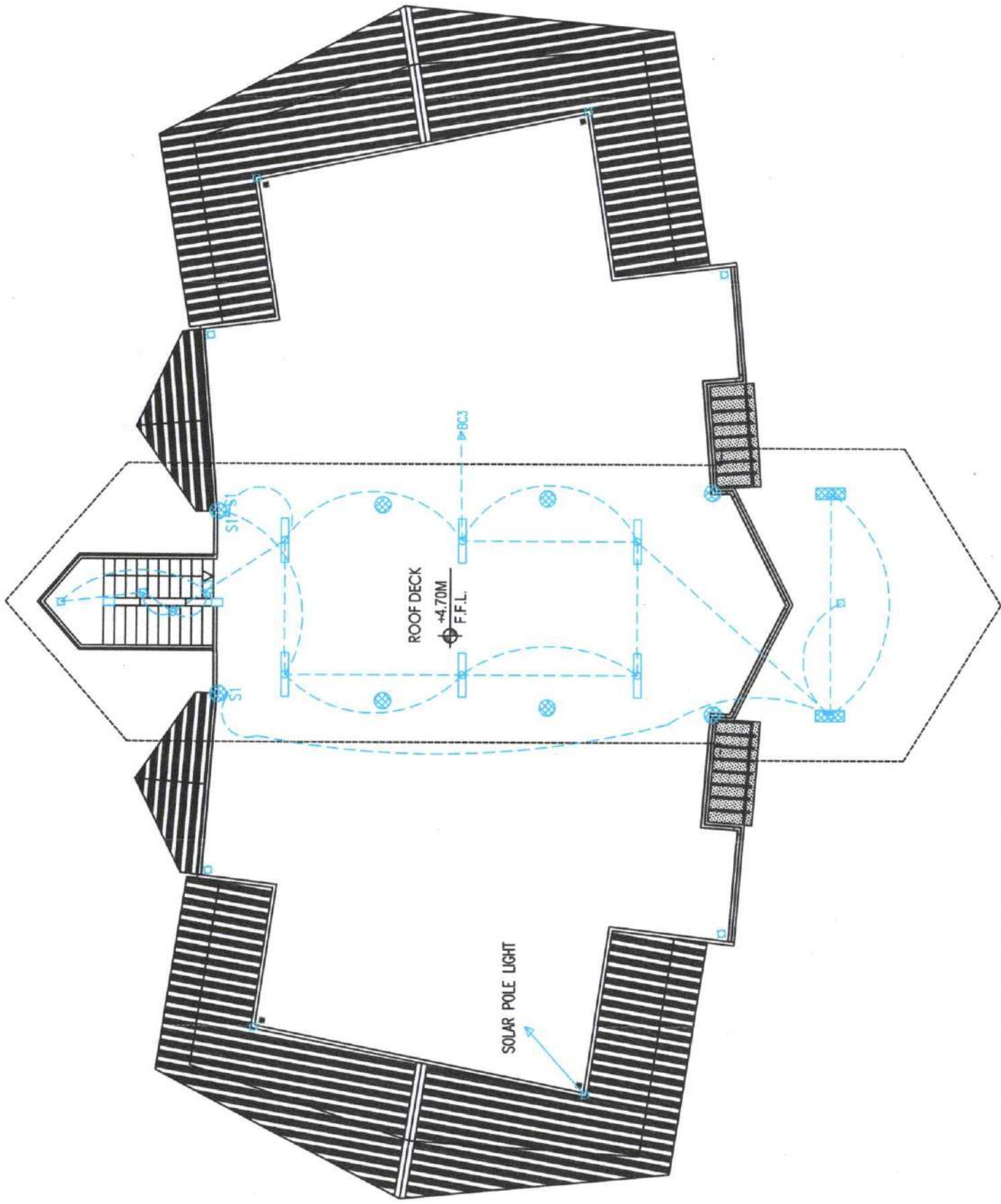
SUBMITTED BY:

 ENGR. CASBRODDIN B. HAHAYKAL, MPA
 ENGINEER V

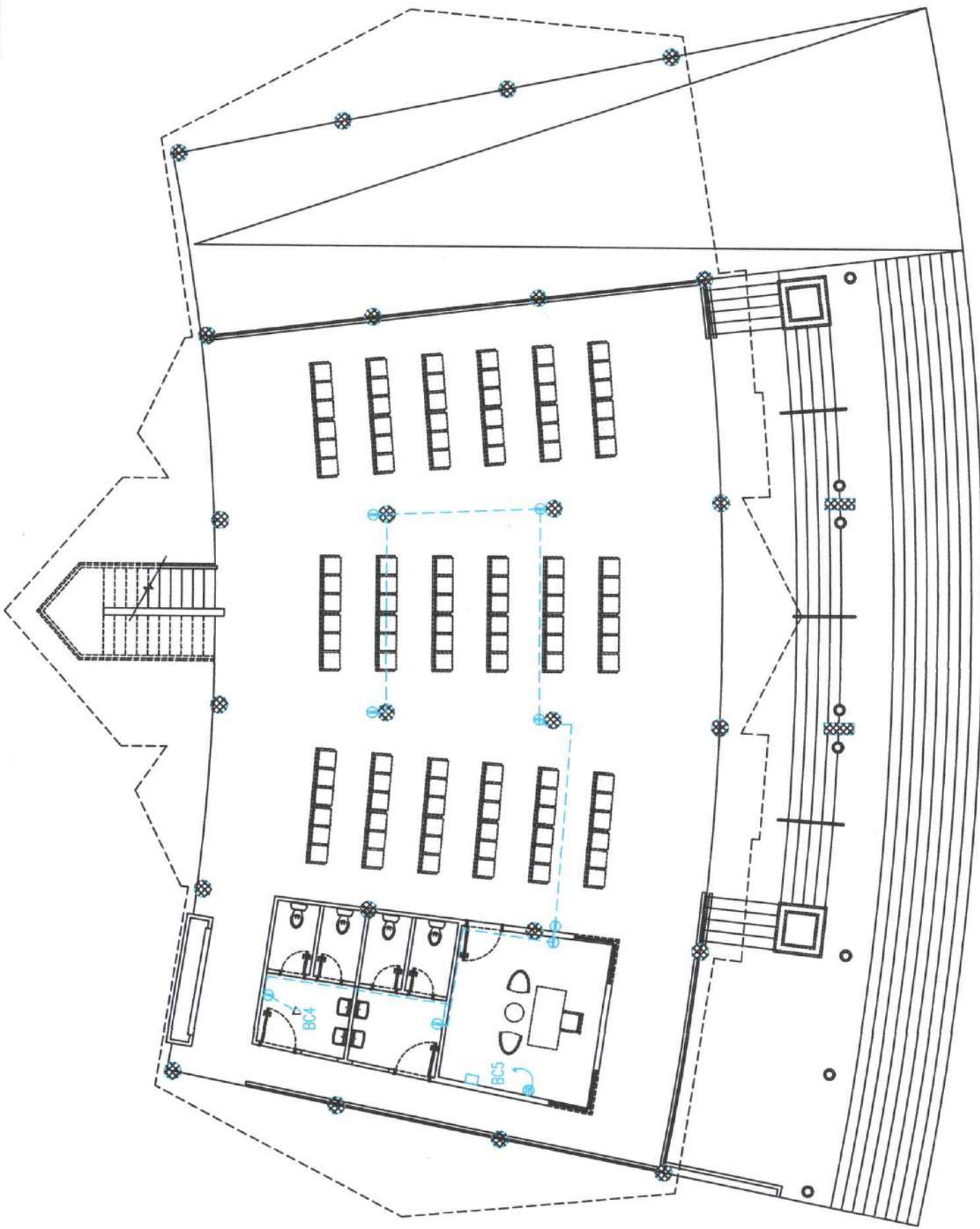
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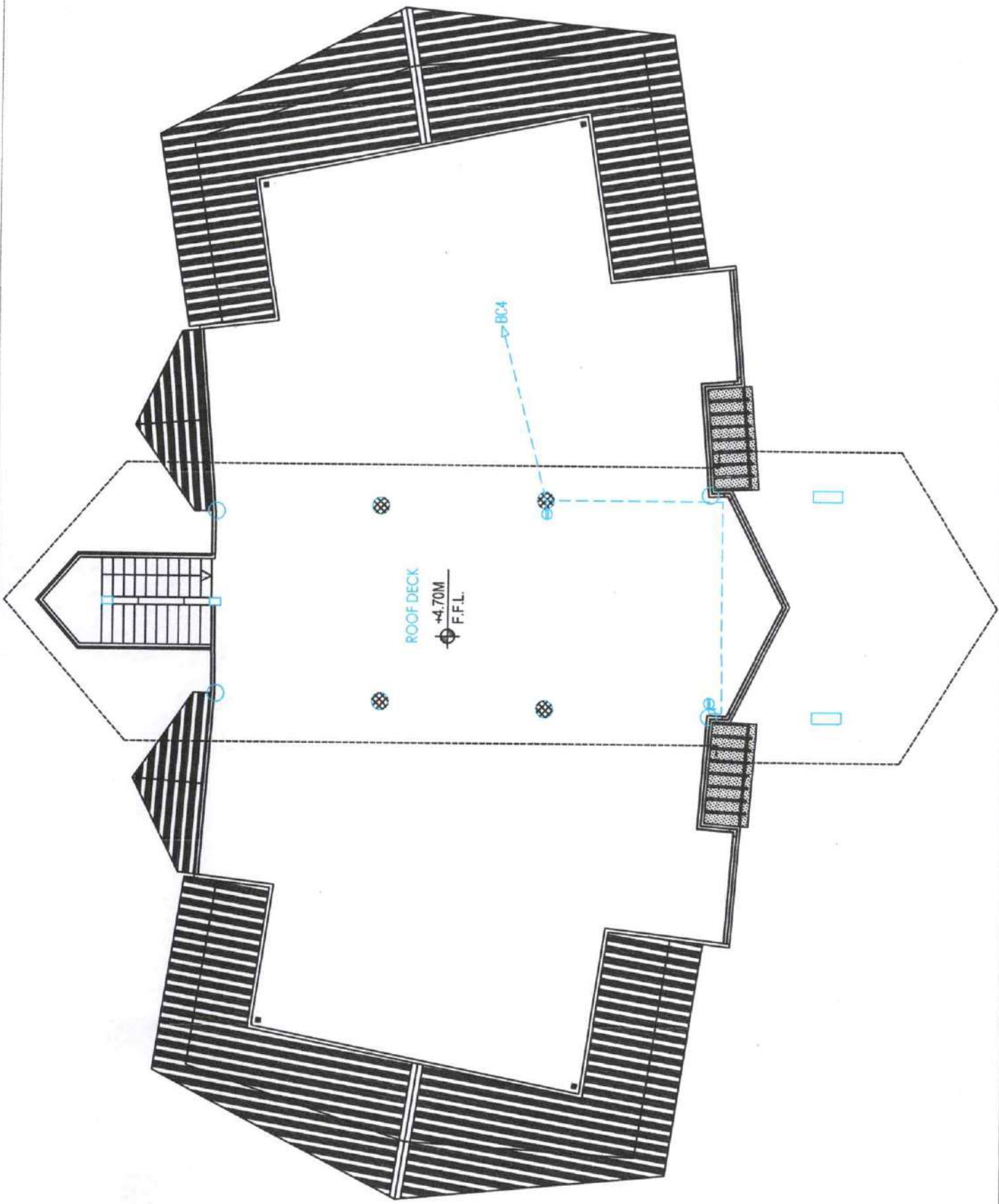
<p> Department of Transportation & Communication OFFICE OF THE MINISTER BARAININ COTABATO CITY </p>	<p> PROJECT & LOCATION CONSTRUCTION OF RIVER LANDING at Gambar, Mother Kabuntalan, Maguindanao </p>	<p> SHEET CONTENTS: ELECTRICAL LIGHTING FOR GROUND FLOOR </p>	<p> <small>NO ONE ARTICLE IN SECTION IS Drawings and Specifications and other Contract Documents shall be signed, stamped or sealed, as Instruments of Service, and the Electrical Property and Documents of the Architect, under the subject for which they are made, be recalled or not. It shall be unlawful for any person to duplicate, copy, make copies of said Documents for use in the execution of and for other projects or buildings, unless recalled jointly or in writing, without the written consent of the Architect or Author of said Documents.</small> </p>	<p> PREPARED BY: RANDI T. MOBER, P.E.E. J.E. ELECTRICAL ENGINEER </p>	<p> CHECKED AND REVIEWED BY: ENGR. ASMIPHA D. ALASGAR ENGINEER II </p>	<p> SUBMITTED BY: ENGR. NASARUDDIN B. WANSAKAR, MPA ENGINEER V </p>	<p> SHEET No. E-02 05 </p>
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 <p>Republic of the Philippines MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARCELONA BUILDING COTABATO CITY</p>	<p>PROJECT & LOCATION: CONSTRUCTION OF RIVER LANDING at Gamar, Mother Kabuntalan, Maguindanao</p>	<p>SHEET CONTENT: ELECTRICAL LIGHTING FOR SECOND FLOOR</p>	<p>RE: 0006, ARTICLE IV, SECTION 18 Drawings and Specifications and other Contract Documents for the project, stamped or sealed, as instruments of service, are the property of the Architect and Documents of the Architect, whether the subject of which they are made, be cancelled or not. It shall be voided for any person who reproduces or to make copies of said Documents for use in the preparation of and for other projects or buildings, whether executed partly or in whole, without the written consent of the Architect or Author of said Documents.</p>	<p>PREPARED BY:  RANDI T. AMBAR, FREE LANCE ELECTRICAL ENGINEER</p>	<p>CHECKED AND REVIEWED BY:  ENG. ASMIFHA D. ALAGCAR ENGINEER II</p>	<p>SUBMITTED BY:  ENG. MANSOOR B. WASFI, MPA ENGINEER V</p>	<p>SHEET No. E-03 05</p>
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<p>REPUBLIC OF THE PHILIPPINES MINISTRY OF TRANSPORTATION & COMMUNICATION OFFICE OF THE MINISTER BARANGAY COTABATO CITY</p>	<p>PROJECT & LOCATION CONSTRUCTION OF RIVER LANDING at Gambar, Mother Kabuntalan, Maguindanao</p>	<p>SHEET CONTENT: ELECTRICAL POWER OUTLET FOR GROUND FLOOR</p>	<p>THE TITLE, ARTICLE IV, SECTION 10 Drawings and Specifications and other Contract Documents shall represent, in whole or in part, as instruments of service, the intellectual property and documents of the Architect, whether the object for which they are made is essential or not. It shall be unlawful for any person to reproduce or to make copies of said Documents for use in the execution of and for other buildings or buildings, whether essential or not, without the written consent of the Architect or Author of said Documents.</p>	<p>PREPARED BY: RANDI T. ARBOZA, P.E. ELECTRICAL ENGINEER</p>	<p>CHECKED AND REVIEWED BY: ENGR. ASHFHA D. ALASGAR ENGINEER II</p>	<p>SUBMITTED BY: ENGR. NABRODDIN B. MASANGKAY, MPA ENGINEER IV</p>	<p>SHEET NO. E-04 05</p>
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<p> Office of the Minister DEPARTMENT OF TRANSPORTATION & COMMUNICATION BARMM COTABATO CITY </p>	PROJECT & LOCATION CONSTRUCTION OF RIVER LANDING at Gambar, Mother Kabuntalan, Maguindanao	SHEET CONTENT: ELECTRICAL POWER OUTLET FOR SECOND FLOOR	RAJONAL ARTICLE IV (SECTION 23) <small> Drawings and Specifications and other Contract Documents fully signed and sealed or marked in the presence of the Public, and the Registered Property and Documents of the Project, under the subject of which they are made, shall be available for any person to examine or copy or to make copies of said Documents for each in the possession of any of the signatories or holders, who may do so at any time, without the written consent of the Architect or Author of said Documents. </small>	PREPARED BY: RANDI T. ABOK, REE, RUP ELECTRICAL ENGINEER	CHECKED AND REVIEWED BY: ENGR. ASUJHA D. ALJASSAR ENGINEER II	SUBMITTED BY: ENGR. YASRODDIN J. MASBAWAL, MPA ENGINEER V	SHEET No. E-05 05
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