PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

Upgrading and Improvement of Land Development of Reception and Study Center for Children (RSCC) Premises

Sixth Edition
July 2020

Preface

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

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

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

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

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

a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.

b. Specific details, such as the "*name of the Procuring Entity*" and "*address for bid submission*," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.

c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.

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

TABLE OF CONTENTS

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
Upgrading and Improvement of Land Development of Reception and Study Center for Children (RSCC) Premises
ITB 2023-DSWD-CAR-24

1. The ***Department of Social Welfare and Development-Cordillera Administrative Region***, through the ***General Appropriations Act 2023*** intends to apply the sum of ***Six Million One Hundred Thirty Two Thousand Seven Hundred Eighty Pesos (PhP 6, 132, 780.00)***, being the Approved Budget for the Contract (ABC) to payments under the contract for ***Upgrading and Improvement of Land Development of Reception and Study Center for Children (RSCC) Premises***.

   Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The ***Department of Social Welfare and Development-Cordillera Administrative Region*** now invites bids for the above Procurement Project. Completion of the Works is required ***within one hundred fifty (150) calendar days upon receipt of Notice to Proceed.*** Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

4. Interested bidders may obtain further information from ***Department of Social Welfare and Development-Cordillera Administrative Region*** and inspect the Bidding Documents at the address given below from ***08:00am to 05:00pm.*** Likewise, interested bidders are required to secure a **Certificate of Site Inspection duly signed by the Buildings and Ground Management Section Head,** upon inspection of the project site located in Wangal, La Trinidad, Benguet.

5. A complete set of Bidding Documents may be acquired by interested bidders on ***03 August 2023 to 01:00 PM (PST) 23 August 2023*** from given address and website 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* ***Ten Thousand Pesos (PhP 10,000.00)***.

   The procuring entity allows payment of bidding documents through Bank-to-Bank transaction. However, the Official Receipt shall only be issued to the bidder upon receipt of the original deposit slip by the Cash Section with the following bank details:

   Account Number: 0222-0218-63
   Account Name : DSWD FO CAR (MISC TRUST ACCNT)
   Name of the Bank: LANDBANK – Baguio Branch

6. The ***Department of Social Welfare and Development-Cordillera Administrative Region*** will hold a Pre-Bid Conference[1] on ***09:00 AM (PST) 11 August 2023*** at ***DSWD-CAR Premises*** **or Google Meet with meeting ID/Link as meet.google.com/rjm-zwod-xoo**, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat at the office address as indicated below on or before ***01:00 PM (PST) 23 August 2023***. Late bids shall not be accepted.

   The procuring entity allows submission through courier provided that the bid envelope will be received on or before the deadline of bid submission.

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 ***01:30 PM (PST) 23 August 2023*** at the given address below ***DSWD-CAR Premises*** and **via Google Meet with meeting ID/Link as meet.google.com/mtx-swcv-kbh.** Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. The ***Department of Social Welfare and Development-Cordillera Administrative Region*** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

    BAC SECRETARIAT
    Procurement Section, DSWD-CAR
    40 North Drive, Baguio City
    bacsec.car@dswd.gov.ph
    (074) 661-0430 Local 25025 / (02) 369-6580
    Mobile Numbers: Smart: 0969-572-9176

12. You may visit the following websites for downloading of Bidding Documents:
    https://car.dswd.gov.ph/downloads/procurement/procurement-opportunities/

SGD.
ENGR. ENRIQUE H. GASCON JR.
BAC Chairperson

[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.

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, ***Department of Social Welfare and Development – Cordillera Administrative Region*** invites Bids for the **Upgrading and Improvement of Land Development of Reception and Study Center for Children (RSCC) Premises**, with Project Identification Number ***ITB 2023-DSWD-CAR-24.***

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for ***2023*** in the amount of ***Six Million One Hundred Thirty Two Thousand Seven Hundred Eighty Pesos (PhP 6, 132, 780.00).***

2.2. The source of funding is:

a. NGA, the General Appropriations Act or Special Appropriations.

3. Bidding Requirements

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

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

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

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

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

5. Eligible Bidders

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

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

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

5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

7.1. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants,

or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on ***09:00 AM (PST) 11 August 2023*** at the ***DSWD-CAR Premises*** **or Google Meet with meeting ID/Link as meet.google.com/rjm-zwod-xoo,** as indicated in paragraph 6 of the **IB.**

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

10.3. A valid special PCAB License in case of Joint Ventures, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.

10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

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

14. Bid and Payment Currencies

14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

14.2. *Payment of the contract price shall be made in:*

a. Philippine Pesos.

15. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

15.2. The Bid and bid security shall be valid within **120 calendar days.** Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

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

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

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB.**

18. Opening and Preliminary Examination of Bids

18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

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

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

a. Information that specifies and complements provisions of the ITB must be incorporated.

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

Bid Data Sheet

<table>
<tr><th>ITB Clause</th><th></th></tr>
<tr><td>5.2</td><td>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:
Construction or Improvement/Renovation/Repair of Buildings</td></tr>
<tr><td>7.1</td><td>Subcontracting is not allowed.</td></tr>
<tr><td>10.3</td><td>PCAB license should be at least “small b” as to size range and/or at least C or D as to license category</td></tr>
<tr><td>10.4</td><td>The key personnel must meet the required minimum years of experience set below:
<table>
<tr><th>Personnel</th><th>General Experience</th><th>Relevant Experience</th></tr>
<tr><td>Site Architect</td><td>Registered and Licensed Architect with at least 2 years of experience</td><td>at least 2 years in specializing architectural interiors, fit-outs and exterior construction.</td></tr>
<tr><td>Site Civil Engineer</td><td>Registered Civil Engineer with at least 2 years of experience in civil engineering practice</td><td>at least 2 years in project supervision of building construction and slope protection construction</td></tr>
<tr><td>Safety Officer</td><td>at least 2 years experience in safety management</td><td>at least 2 years experience as Safety Officer II in building construction</td></tr>
<tr><td>Project Foreman</td><td>at least 2 years of experience in building construction</td><td>at least 2 years of experience in building construction</td></tr>
<tr><td>Electrician</td><td>At least 2 years of experience with NC II Certificate</td><td>At least 2 years of relevant experience</td></tr>
<tr><td>Tile Setter</td><td>At least 2 years of experience with NC II Certificate</td><td>At least 2 years of relevant experience</td></tr>
<tr><td>Carpenter</td><td>At least 2 years of experience with NC II Certificate</td><td>At least 2 years of experience in carpentry in building construction</td></tr>
<tr><td>Welder</td><td>at least 2 years of experience in welding and hot works</td><td>at least 2 years of experience in welding/hot works & must be TESDA Accredited</td></tr>
</table></td></tr>
<tr><td>10.5</td><td>The minimum major equipment requirements are the following:
<table>
<tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr>
<tr><td>Mini Dump Truck</td><td>at least 2.5 cubic meters</td><td>at least one (1)</td></tr>
<tr><td>Speed Cutter</td><td>at least 14 inches</td><td>at least one (1)</td></tr>
<tr><td>Welding Machine</td><td>at least 300 amps</td><td>at least three (3)</td></tr>
</table></td></tr>
</table>

	Drilling Machine	at least 450 Watts	at least two (2)
	Concrete Vibrator	at least 3 Hp	at least one (1)
	Compactor	at least 3 Hp	at least one (1)
	One-bagger Mixer	at least 1 cu.m	at least one (1)
12	*Not Applicable*		
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than ***two percent (2%) of ABC or PhP 122, 655.600,*** 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 ***five percent (5%) of ABC or 306, 639.00***, if bid security is in Surety Bond.		
19.2	*Partial bids are not allowed.*		
20	*None*		
21	Additional contract documents relevant to the Project - Construction Schedule and S-curve, Manpower Schedule, Construction Methods, Equipment Utilization Schedule, Construction Safety and Health Program approved by DOLE.		

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

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

4. The Contractor's Obligations

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

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

5. Performance Security

5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.

5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

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

7. Warranty

7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.

7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the **SCC.**

15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity’s Representative’s approval, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

a. Information that complements provisions of the GCC must be incorporated.

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

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

Special Conditions of Contract

GCC Clause	
2	*Not applicable*
4.1	The Procuring Entity shall give possession of so much of the Site to the Contractor after a pre-construction meeting between the authorized DSWD Representatives and the Contractor.
6	Not applicable
7.2	Fifteen (15) years.
10	No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within **ten (10) calendar days** upon receipt of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is **Ten Thousand (PhP 10, 000.00) pesos.**
13	The amount of the advance payment is fifteen percent (15%) of the Contract Value and can be availed of upon the submission and receipt of a request for the release of the advance payment after the issuance of the Notice to Proceed (NTP) and posting of an irrevocable letter of credit in favor of the procuring entity.
14	*Not applicable*
15.1	The date by which operating and maintenance manuals are required is ***within 15 days upon completion of the contract.*** The date by which "as built" drawings are required is ***within 15 days upon completion of the contract.***
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 ***Php 15,000.00*.**

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be

accepted subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

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

Please see attached Technical Specifications and General Conditions and Requirements.

Section VII. Drawings

Please see attached Drawings/floor plans.

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and

b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

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

Daywork Schedule

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

a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.

b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

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

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

Signature Box

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

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

Please see attached Bill of Quantities.

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) in accordance with Section 8.5.2 of the IRR;

Technical Documents

☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**

☐ (d) Special PCAB License in case of Joint Ventures **and** registration for the type and cost of the contract to be bid; **and**

☐ (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission **or** original copy of Notarized Bid Securing Declaration; **and**

(f) Project Requirements, which shall include the following:

☐ a. Organizational chart for the contract to be bid;

☐ b. 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;

d. Certificate of Site Inspection duly signed by the Buildings and Ground Management Section Head; **and**

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

Financial Documents

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

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

☐ (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**

☐ (l) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; **and**

☐ (m) Cash Flow by Quarter.

Republic of the Philippines

gppb

Government Procurement Policy Board

"UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES"

"CONSTRUCTION OF DRAINAGE SYSTEM OF RSCC BUILDING"
"CONSTRUCTION OF SLOPE PROTECTION ALONG RSCC BUILDING"
"CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY"

PROJECT TITLE

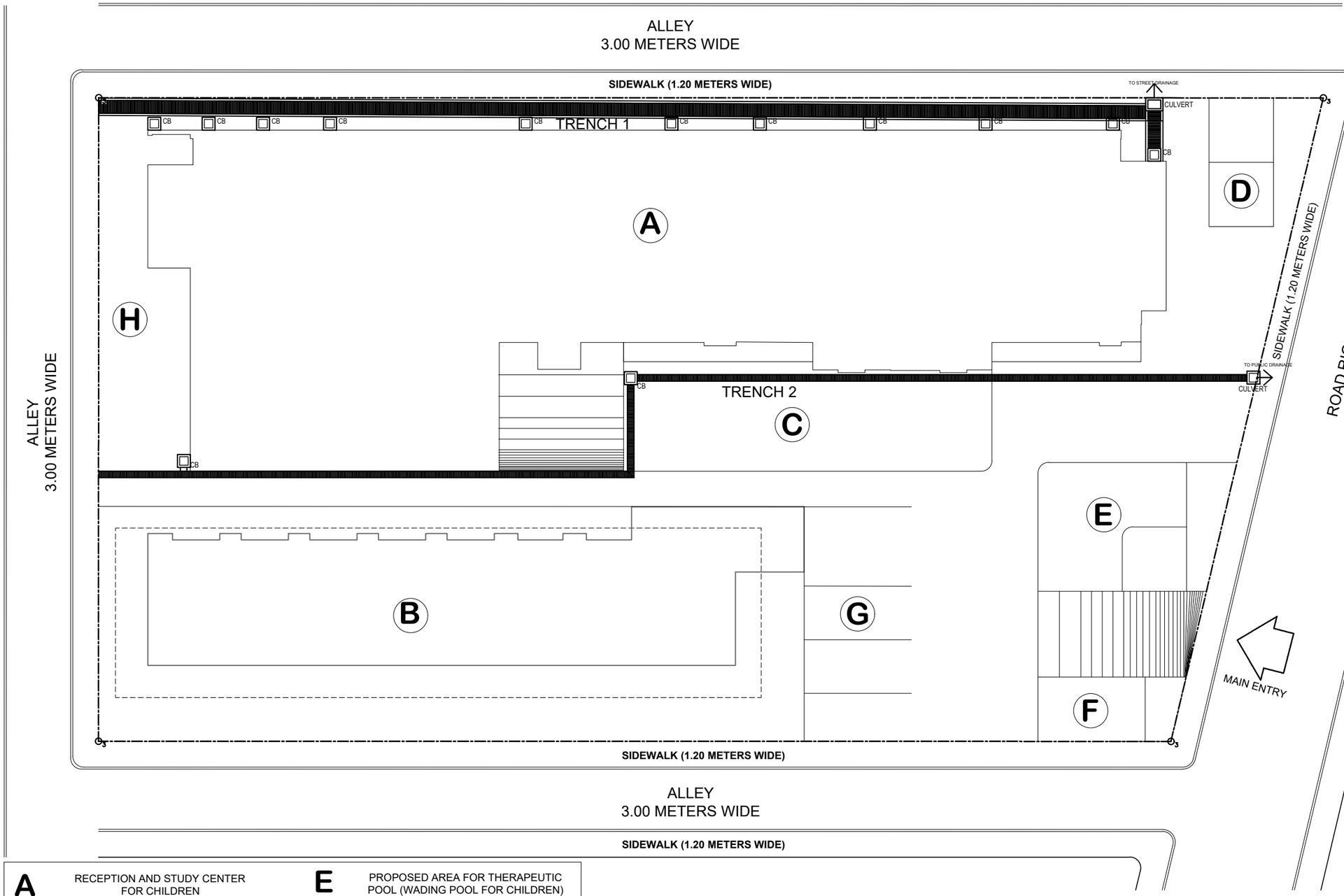
DSWD-CAR Reception and Study Center for Children, Wangal, La Trinidad, Benguet 2601

PROJECT LOCATION

PROJECT DOCUMENTS
ISSUED FOR DSWD CAR PROCUREMENT TRANSACTIONS ONLY

DRN: CAR-FO-AD-BGMS-A-PR-23-04-19971-S
DSWD Field Office Cordillera Administrative Region, 40 North Drive, 2600 Baguio City, Philippines
Email: focar@dswd.gov.ph Tel. Nos.: (6374) 446-5961/662-0430 | (6302) 396-6580
Mobile Nos.: (63917) 871-9893/872-0256 | (63919) 065-5365 to 68 Website: www.car.dswd.gov.ph

NOTE: ALL DIMENSIONS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. DO NOT SCALE THIS DRAWING.



A	RECEPTION AND STUDY CENTER FOR CHILDREN	E	PROPOSED AREA FOR THERAPEUTIC POOL (WADING POOL FOR CHILDREN)
B	EXISTING ISOLATION FACILITY BUILDING FOOTPRINT	F	PROPOSED AREA FOR GUARD HOUSE
C	PROPOSED PLAYGROUND	G	PROPOSED PARKING AREA
D	PROPOSED AREA FOR MAINTENANCE (GENERATOR SET & FIRE PUMP/TANK)	H	PROPOSED AREA FOR ACCESS RAMP

CAD BY: **EHD JOSHUA A. ALVARO**

DRAINAGE SYSTEM LAYOUT

1 / P 01 SCALE 1:200 METERS

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES

LOCATION :
DSWD - RECEPTION AND STUDY CENTER FOR CHILDREN, PUGUIS, LA TRINIDAD, BENGUET

SHEET CONTENT :
CONSTRUCTION OF DRAINAGE SYSTEM OF RSCC
DRAINAGE SYSTEM LAYOUT

APPROVED BY
LEO L. QUINTILLA
Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY
RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
ENGR. COLLIN JONES C. TUNGOL
Engineer II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

DRAWING STATUS

DATE	DESCRIPTION/REMARKS	BY

PLAN CATEGORY	SHEET NUMBER	PAPER SIZE
P	01/01	A3

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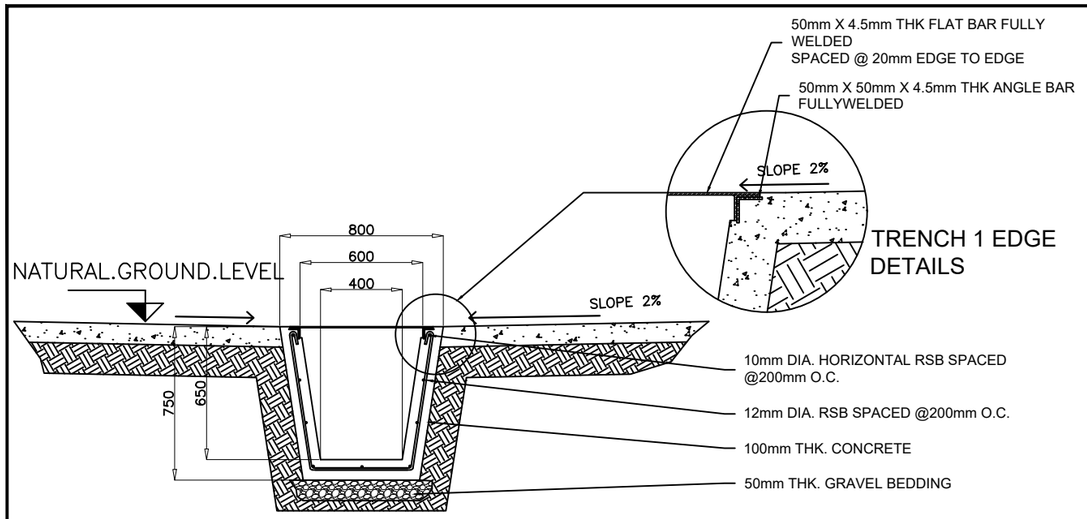

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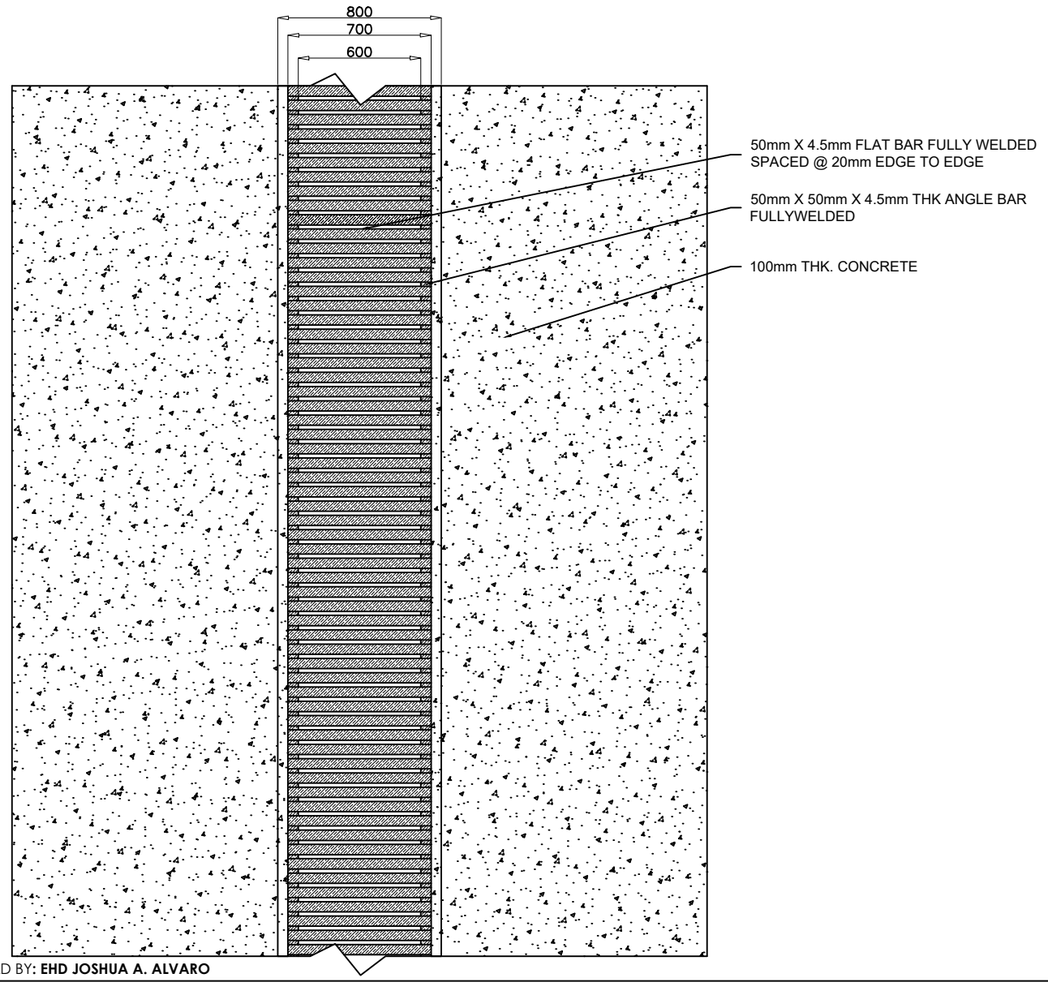

CAD BY: **EHD JOSHUA A. ALVARO**

2 S 01 **TRENCH 1 PLAN**
SCALE 1:30 METERS

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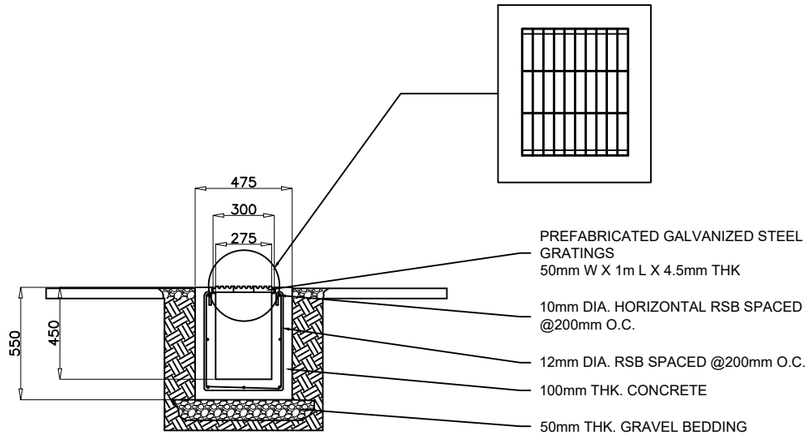

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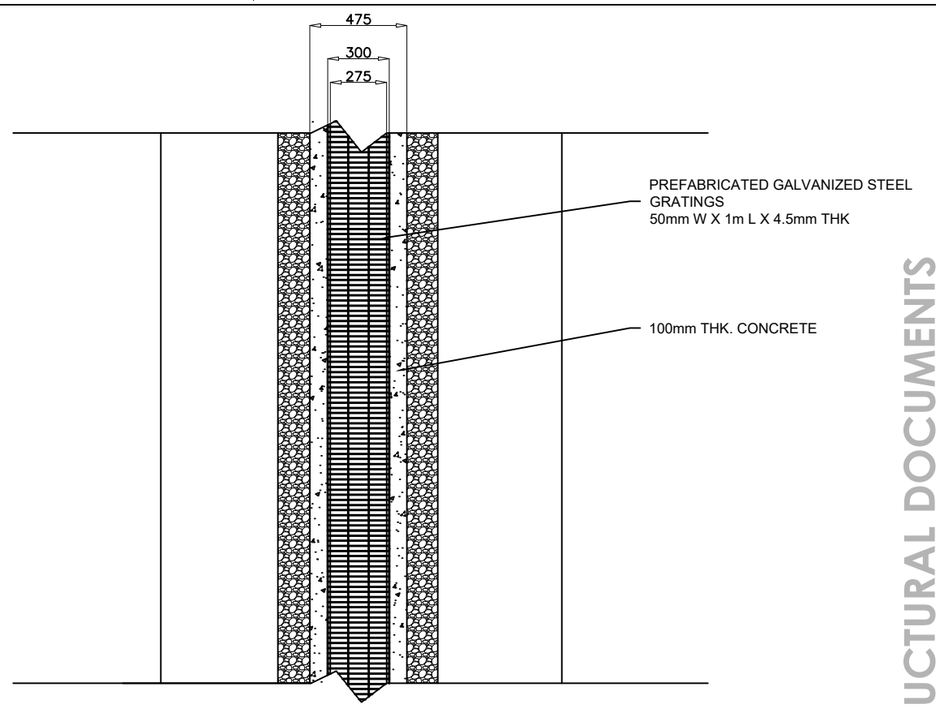

4 S 01 **TRENCH 2 PLAN**
SCALE 1:30 METERS

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ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES

LOCATION :
DSWD - RECEPTION AND STUDY CENTER FOR CHILDREN, PUGUIS, LA TRINIDAD, BENGUET

SHEET CONTENT :
CONSTRUCTION OF DRAINAGE SYSTEM OF RSCC
TRENCH CANAL DETAILS

APPROVED BY
LEO L. QUINTILLA
Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

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Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
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Engineer II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S
DATE SUBMITTED: 28 JUNE 2023

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PLAN CATEGORY	SHEET NUMBER	PAPER SIZE
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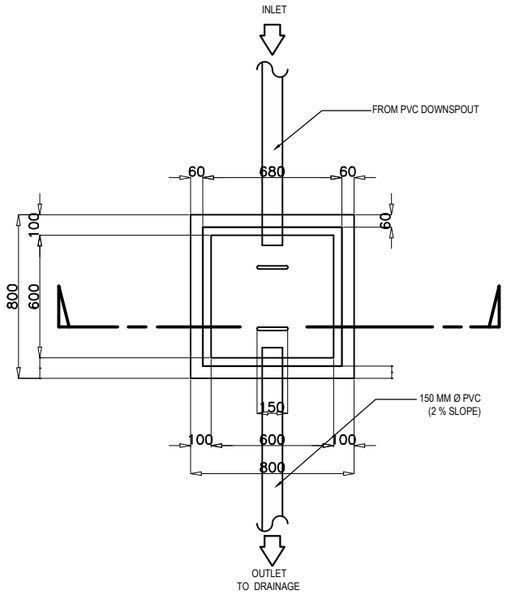
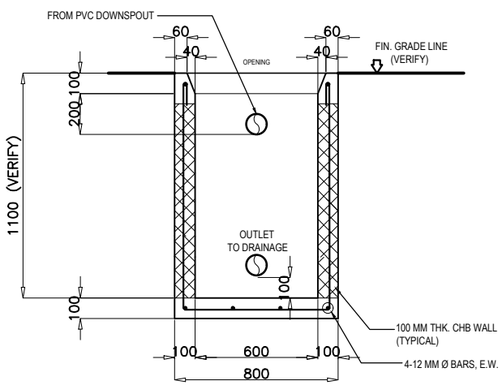


CATCH BASIN PLAN

1 / S 02 SCALE 1:30 METERS

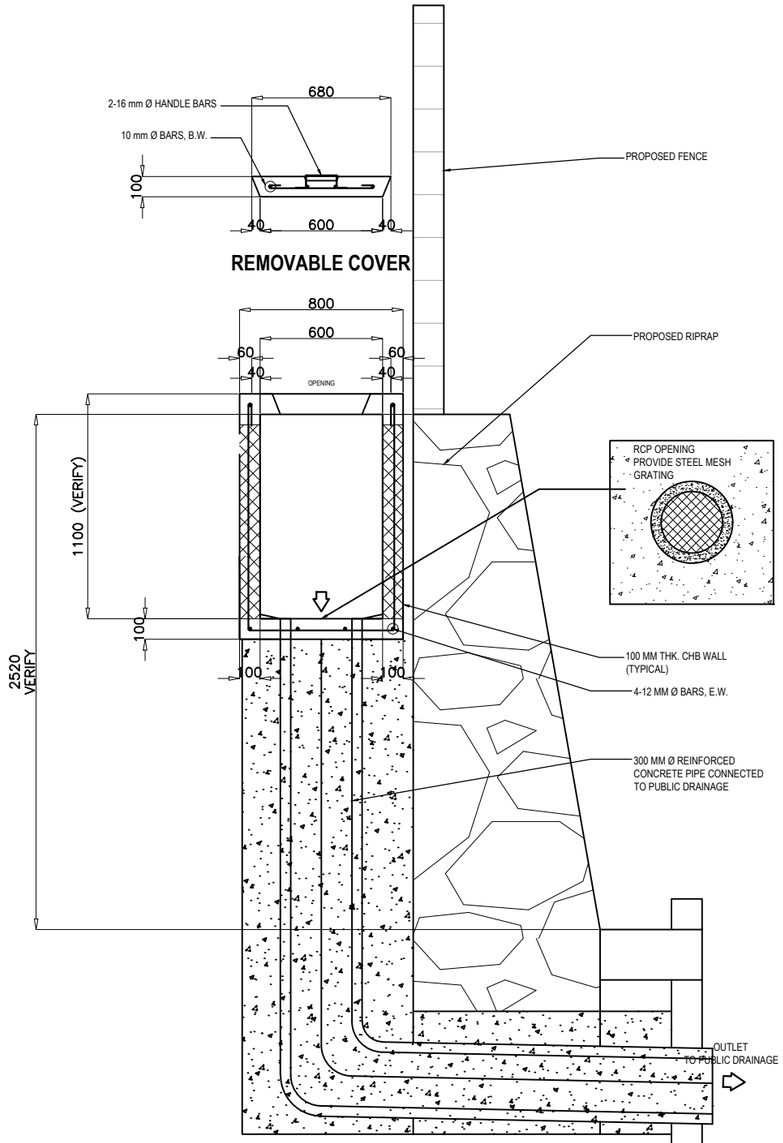
REMOVABLE COVER



DETAIL SECTION

CAD BY: **EHD JOSHUA A. ALVARO**

2 / S 02 **CATCH BASIN DETAILS** SCALE 1:30 METERS



3 / S 02 **CULVERT SECTION** SCALE 1:30 METERS

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DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :

UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES

LOCATION :

DSWD - RECEPTION AND STUDY CENTER FOR CHILDREN, PUGUIS, LA TRINIDAD, BENGUET

SHEET CONTENT :

CONSTRUCTION OF DRAINAGE SYSTEM OF RSCC

CATCH BASIN & CULVERT DETAILS

APPROVED BY

LEO L. QUINTILLA
Regional Director

CONFORMED BY

ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY

RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

ENGR. COLLIN JONES C. TUNGOL
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PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

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ISSUED FOR PRE-PROCUREMENT PURPOSES ONLY - JUNE 28, 2023

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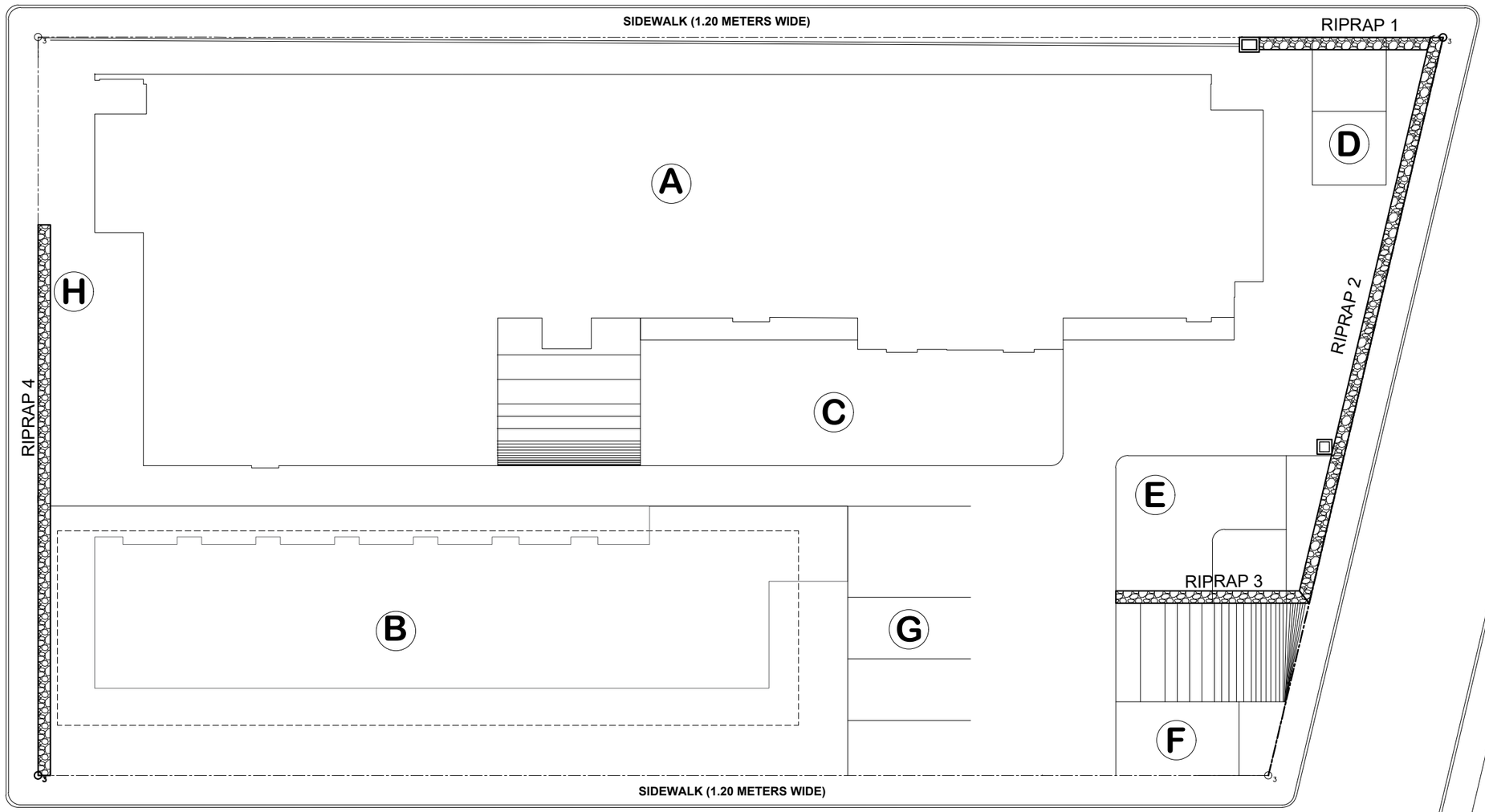
ALLEY
3.00 METERS WIDE



ALLEY
3.00 METERS WIDE

SIDEWALK (1.20 METERS WIDE)

A	RECEPTION AND STUDY CENTER FOR CHILDREN	E	PROPOSED AREA FOR THERAPEUTIC POOL (WADING POOL FOR CHILDREN)
B	EXISTING ISOLATION FACILITY BUILDING FOOTPRINT	F	PROPOSED AREA FOR GUARD HOUSE
C	PROPOSED PLAYGROUND	G	PROPOSED PARKING AREA
D	PROPOSED AREA FOR MAINTENANCE (GENERATOR SET & FIRE PUMP/TANK)	H	PROPOSED AREA FOR ACCESS RAMP

CAD BY: **EHD JOSHUA A. ALVARO**

CATCH BASIN DETAILS

2 / S 02 SCALE 1:30 METERS

STRUCTURAL DOCUMENTS
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DSWD
ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES

LOCATION :
DSWD - RECEPTION AND STUDY CENTER FOR CHILDREN, PUGUIS, LA TRINIDAD, BENGUET

SHEET CONTENT :
CONSTRUCTION OF SLOPE PROTECTION ALONG RSCC
SLOPE PROTECTION DEMARCATION LAYOUT

APPROVED BY
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Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY
RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
ENGR. COLLIN JONES C. TUNGOL
Engineer II, AD - BGMS

PROJECT/TA No: **CAR-FO-AD-BGMS-A-PR-23-06-19971-S**

DATE SUBMITTED: **28 JUNE 2023**

DRAWING STATUS

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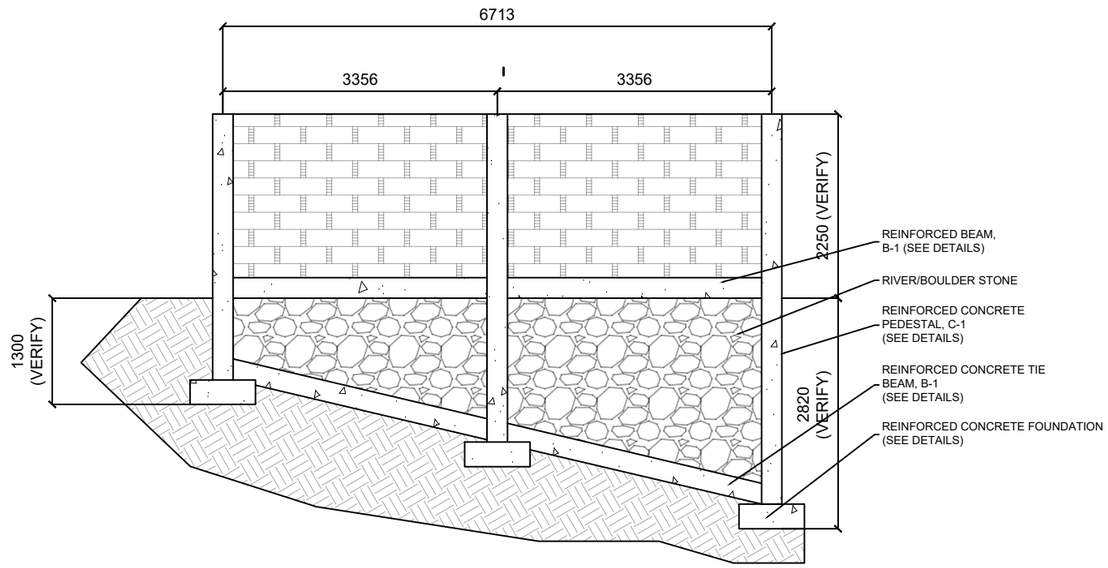
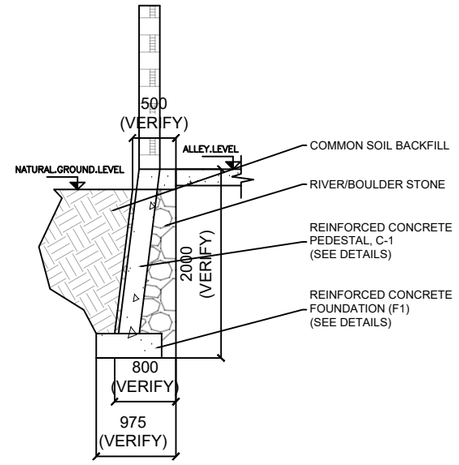


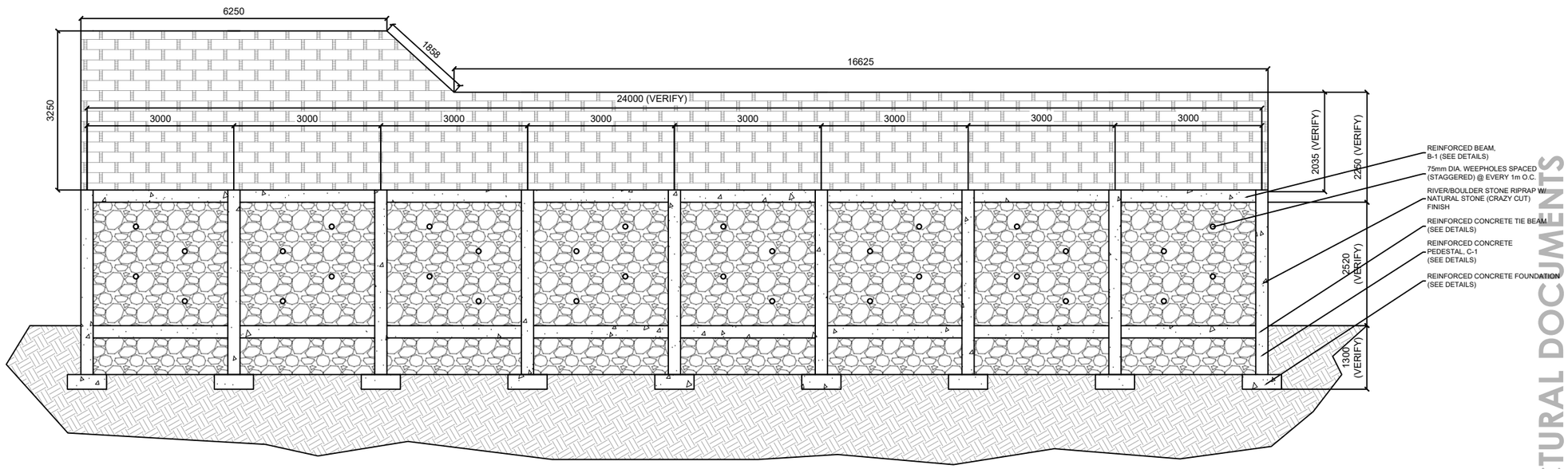
1 S 02 **RIPRAP 1 ELEVATION**

SCALE 1:75 METERS



2 S 02 **RIPRAP 1 SECTION**

SCALE 1:75 METERS



3 S 02 **RIPRAP 2 ELEVATION**

SCALE 1:100 METERS

CAD BY: **EHD JOSHUA A. ALVARO**

NOTE: ALL DIMENSIONS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. DO NOT SCALE THIS DRAWING.

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ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :

UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES

LOCATION :

DSWD - RECEPTION AND STUDY CENTER FOR CHILDREN, PUGUIS, LA TRINIDAD, BENGUET

SHEET CONTENT :

CONSTRUCTION OF SLOPE PROTECTION ALONG RSCC

RIPRAP 1 & RIPRAP 2 DETAILS

APPROVED BY

LEO L. QUINTILLA
Regional Director

CONFORMED BY

ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY

RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

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Engineer II, AD - BGMS

PROJECT/TA No:
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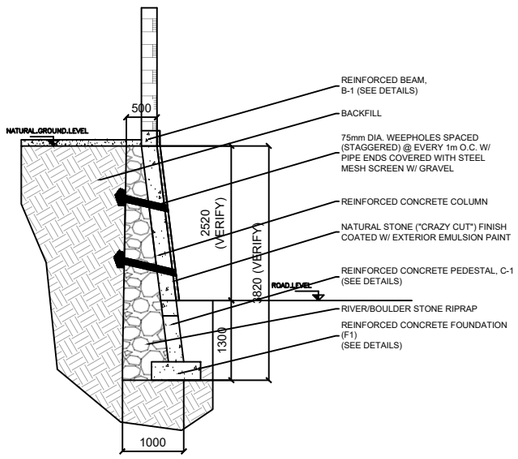
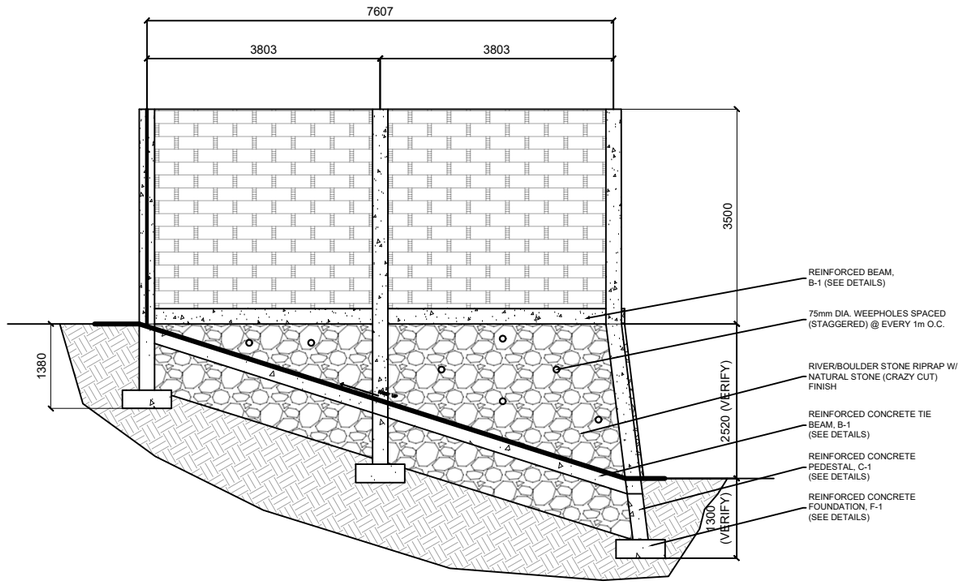


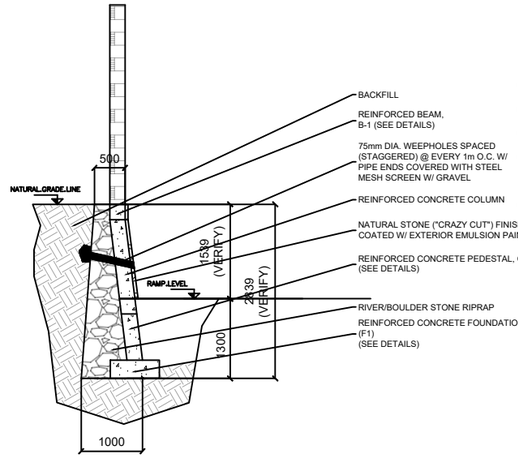
1 S 03 **RIPRAP 2 SECTION**

SCALE 1:30 METERS



2 S 03 **RIPRAP 3 ELEVATION**

SCALE 1:30 METERS



3 S 03 **RIPRAP 3 SECTION**

SCALE 1:30 METERS

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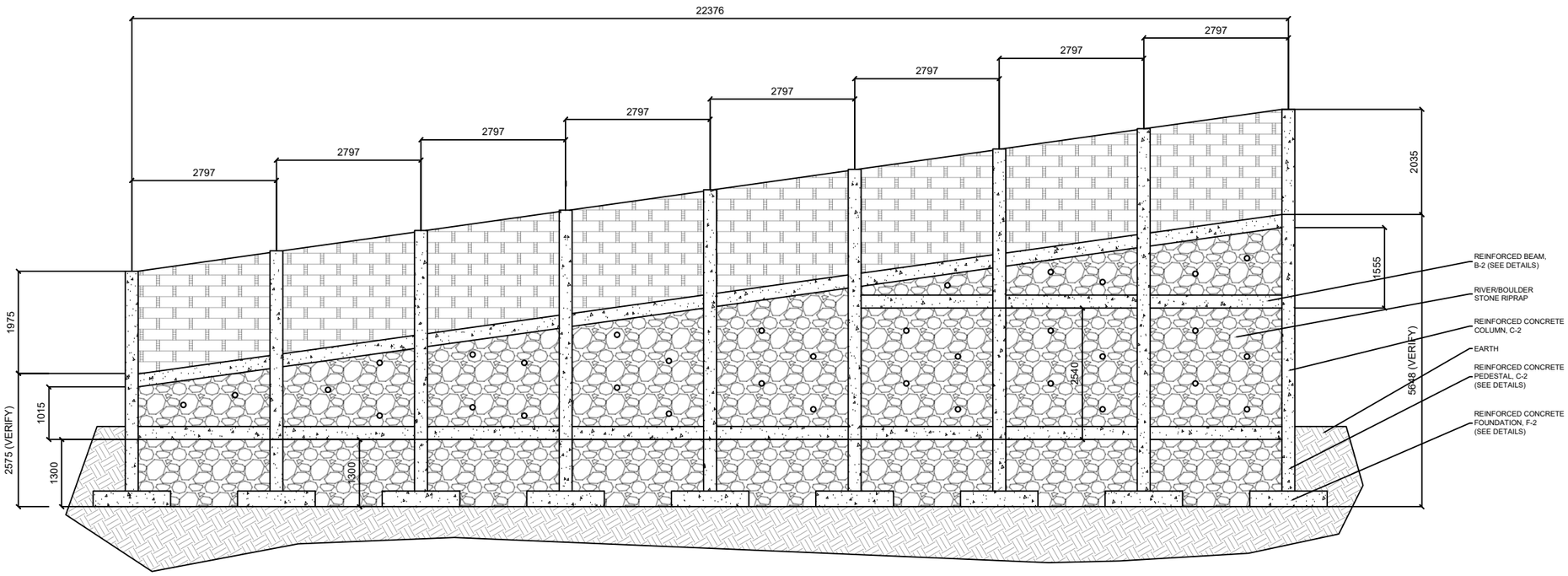

4 S 03 **RIPRAP 4 ELEVATION**

SCALE 1:30 METERS

CAD BY: **EHD JOSHUA A. ALVARO**

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SHEET CONTENT :

CONSTRUCTION OF SLOPE PROTECTION ALONG RSCC

RIPRAP 2, 3 & 4 PROFILES

APPROVED BY

LEO L. QUINTILLA
Regional Director

CONFORMED BY

ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY

RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

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Engineer II, AD - BGMS

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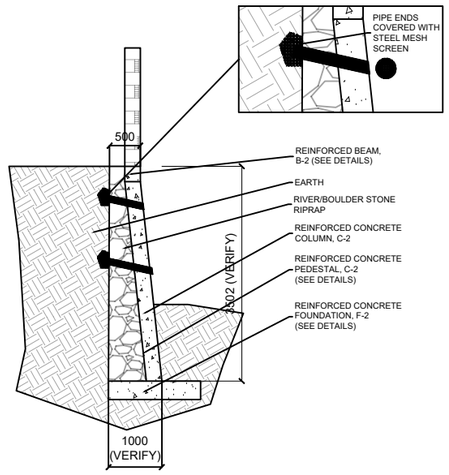
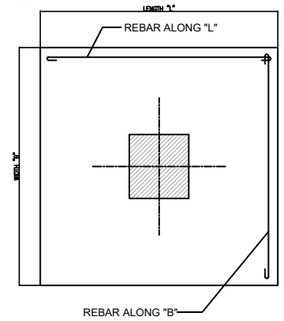


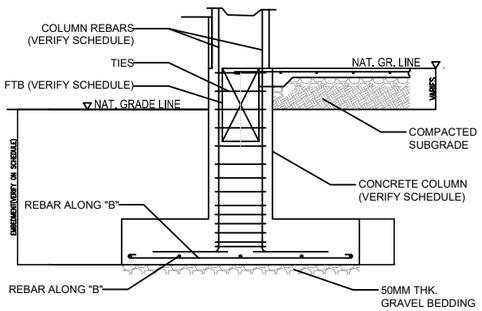
1 S 04 **RIPRAP 4 SECTION**

SCALE 1:30 METERS

PLAN



SECTION



SCHEDULE OF FOOTING

MARK	DIMENSION			DEPTH FROM N.G.L.	REINFORCING BARS		REMARKS
	WIDTH (W)	LENGTH (L)	THICKNESS (t)	' D '	BAR - X	BAR - Y	
F - 1	800	800	300	1300	5 - 16 mm Ø	5 - 16 mm Ø	SQUARE FOOTING
F - 2	1200	1200	400	1300	8- 16 mm Ø	8- 16 mm Ø	SQUARE FOOTING

CAD BY: **EHD JOSHUA A. ALVARO**

2 S 04 **FOOTING STRUCTURAL DETAILS**

SCALE 1:30 METERS

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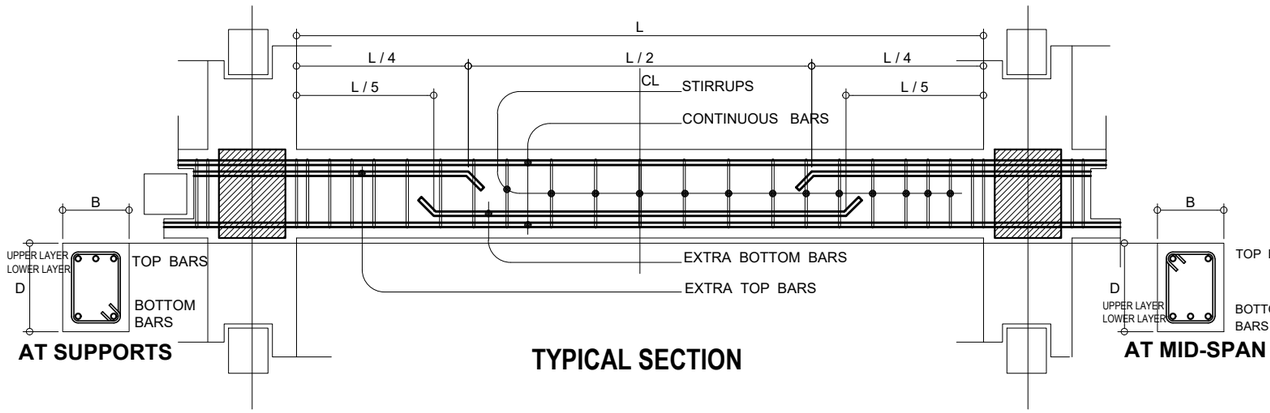

SCHEDULE OF BEAMS AND COLUMNS

MARK	SIZES (mm)		REINFORCEMENT BARS				BAR ARRANGEMENT			STIRRUPS SIZE AND SPACING	REMARKS
	WIDTH	DEPTH	SUPPORT		MID - SPAN		EXT.	MID.	INT.		
	b	t	TOP	BOTTOM	TOP	BOTTOM	SUPP.	SPAN	SUPP.		
B - 1	200	300	2-16mmØ	2-16mmØ	2-16mmØ	2-16mmØ				10mm Ø,1@50, 3@100,REST @200mm O.C.	
B - 2	250	400	3-16mmØ	2-16mmØ	2-16mmØ	3-16mmØ				10mm Ø,1@50, 8@100,REST @200mm O.C.	
C-1	250	250	4-16mmØ	4-16mmØ						10mm Ø,1@50, 8@100,REST @200mm O.C.	TYPICAL @ SUPPORT AND @FREE END
C-2	250	250	6-16mmØ	6-16mmØ						10mm Ø,1@50, 8@100,REST @200mm O.C.	TYPICAL @ SUPPORT AND @FREE END

3 S 04 **BEAM-COLUMN STRUCTURAL DETAILS**

SCALE 1:30 METERS

STRUCTURAL DOCUMENTS
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SHEET CONTENT :

CONSTRUCTION OF SLOPE PROTECTION ALONG RSCC

RIPRAP PROFILES & FOOTING, COLUMN AND BEAM STRUCTURAL DETAILS

APPROVED BY

LEO L. QUINTILLA
Regional Director

CONFORMED BY

ENRIQUE H. GASCON, Jr.
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CHECKED BY

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Administrative Officer V, OIC-Chief Administrative Division

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CONSTRUCTION NOTES

A. GENERAL NOTES

1. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
2. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES HE MAY FINDBEFORE PROCEEDING WITH THE WORK, OR DURING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING & BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.
4. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS PIPE SLEEVES, ETC., TO BE EMBEDDED IN CONCRETE.
6. INSPECTION - ALL CONSTRUCTION AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION, EXAMINATION AND TESTING BY THE ENGINEER. THE ENGINEER SHALL HAVE THE RIGHT REJECT DEFECTIVE MATERIALS AND WORKMANSHIP OR REQUIRE ITS CORRECTION.
7. ALL SLABS, BEAMS, GIRDERS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED, DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH THE ARCHITECTURAL AND OTHER ENGINEERING PLANS AS WELL AS TO COMPLETE THE STRUCTURAL WORK IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT UP DURING PRE-BIDS/MEETINGS/NEGOTIATIONS. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE ITEMS IN THEIR BID.

B. FOUNDATION NOTES

1. SAFE BEARING CAPACITY IS _____ kPa.
   a. PILE CAPACITY 110 TONS.
   b. BOTTOM OF FOOTINGS SHOULD BE SOLID GROUND. ACTUAL DEPTH TO BE APPROVED BY THE ENGINEER.
   c. SOIL BEARING CAPACITY SHALL BE INCREASED BY 33% WHEN COMBINATION WITH SEISMIC OR WIND LOAD.
2. ALL COLUMN FOOTINGS SHALL REST ON 0.10m THICK WELL COMPACTED GRAVEL BASE COURSE.
3. BACKFILL SHALL BE PACED IN 0.20m LAYERS AND EACH LAYER SHALL BE COMPACTED TO 95%MAXIMUM DRY DENSITY.
4. WHERE LOOSE/SOFT MATERIAL IS ENCOUNTERED AT DEPTH OF EMBEDMENT EXCAVAVATE TO FIRM LAYER OR TO MAXIMUM OF 0.10m AND REPLACE LOOSE/SOFT MATERIALS UNDERNEATH THE FOOTING WITHIN THE FOOTING AREA PLUS 1/2 OF THE DEPTH OF EXCAVATED SOFT MATERIAL ON ALL SIDES WITH SELECTED SAND/GRAVEL BACKFILL MATERIALS COMPACTED AS DESIRED BY THE ENGINEER.
5. THE STRUCTURAL ENGINEER-OF-RECORD, UPON NOTIFICATION, SHALL CONDUCT THOROUGH INSPECTION OF FOUNDATION WORKS AFTER EXCAVATION BEFORE FOOTINGS ARE COMPLETED. NO REINFORCING STEEL OR FORMWORKS SHALL BE PLACED PRIOR TO INSPECTION. CONCRETE POURING OF THE FOUNDATION SYSTEM SHALL NOT BE ALLOWED WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER-ON-RECORD.

C. SLAB-ON-GRADE NOTES

1. THE SOIL, SUBGRADE AND FILL LAYERS BELOW ALL SLABS-ON-GRADE, PAVING AND PIT SLABS SHALL BE MECHANICALLY COMPACTED IN 200MM THICK LAYERS TO A MINIMUM OF 95 PERCENT MDD.
2. ALL SLAB-ON-GRADE SHALL BE PROVIDED WITH A MINIMUM OF 100MM THICK COMPACTED CLEAN COARSE GRAVEL BED, EXCEPT AS OTHERWISE DETAILED IN THE PLANS.
3. ALL SLAB-ON-GRADE ARE NOT DESIGNED AS PRESSURE SLAB UNLESS OTHERWISE INDICATED ON PLAN.
4. SLAB-ON-GRADE SHALL BE 100MM THICK WITH 12MM DIA. BARS SPACED AT 0.40M O.C.

D. CONCRETE NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP) 2015 OR THE AMERICAN CONCRETE INSTITUTE BUILDING CODE FOR REINFORCED CONCRETE ACI 318 - EXCEPT AS MODIFIED HEREIN.

1. CONSTRUCTION OR COLD JOINTS SHALL BE LOCATED WITHIN THE MIDDE THIRD OF SPANS OF SLABS, BEAMS, AND GIRDERS FOR CASE UNAVOIDABLE, PROPOSED LOCATION MUST BE APPROVED FIRST BY THE STRUCTURAL ENGINEER.
2. PIPES OR DUCTS EXCEEDING ONE THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED.
3. REINFORCING BARS, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACE BEFORE POURING CONCRETE. BAR PLACEMENT AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE RECOMMENDED ACI PRACTICE.
4. ALL INSERTS, ANCHOR BOLTS, ETC. TO BE EMBEDDED IN THE CONCRETE SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
5. IN GENERAL, THE LATEST EDITION OF THE MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES, ACI 315, SHALL BE ADHERED TO, UNLESS SHOWN OTHERWISE.
6. USE OF ADMIXTURES IS PERMITTED TO PRODUCE PROPER SLUMP AND WORKABILITY BUT SUBJECT TO THE ENGINEER'S APPROVAL. ADDITION OF WATER TO CONCRETE AT JOB SITE IS NOT ALLOWED.
7. PREPARE AND SUBMIT CONCRETE MIX DESIG INCLUDING AGGREGATES GRADATION, WATER AND CEMENT CONTENTS, AND CYLINDER STRENGTH TEST RESULT FOR REVIEW.

SCHEDULE OF STRUCTURAL CONCRETE AT 28 DAYS COMPRESSIVE STRENGTH

LOCATION	STRUCTURAL ELEMENTS	28-DAY COMPRESSIVE STRENGTH MPa (psi)	MAX. SLUMP mm (in.)
FOUNDATION	FOOTING	20.7 (3000)	100 (4")
GROUND LEVEL	SLAB ON GRADE	17.3 (2500)	100 (4")
ALL LEVELS	SLAB	20.7 (3000)	100 (4")
ALL LEVELS	BEAMS	20.7 (3000)	100 (4")
ALL LEVELS	COLUMNS	20.7 (3000)	100 (4")

SCHEDULE OF CONCRETE AGGREGATES

ITEMS	MAXIMUM AGGREGATE SIZE
FOOTINGS	19 mm (3/4")
SLABS	13 mm (1/2")
WALLS	19 mm (3/4")
BEAMS	19 mm (3/4")
COLUMNS	19 mm (3/4")

E. REINFORCING STEEL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP) 2015 OR THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION FOR REINFORCING STEEL AND REINFORCING BARS EXCEPT AS MODIFIED HEREIN.

SCHEDULE OF REINFORCING STEEL AND REINFORCING BARS

DIAMETER OF BARS	ASTM	GRADE
WELDED WIRE MESH	----	Fy = 228 MPa (33)
12MMØ AND SMALLER	A615 / A615M (DEFORMED)	Fy = 228 MPa (33)
16MMØ AND LARGER	A615 / A615M (DEFORMED)	Fy = 276 MPa (40)

1. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BEND SHALL BE MADE COLD.
2. IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. SPLICES SHALL BE SECURELY WIRED TOGETHER STAGGER SPLICES AT LEAST 600mm. WHENEVER POSSIBLE IN BEAMS AND SLABS, SPLICE TOP BAR AT MIDSPAN AND BOTTOM BARS NEAR SUPPORT. SPLICE OF REINFORCEMENT SHALL BE MADE ONLY AS REQUIRED OR PERMITTED ON DESIGN DRAWINGS OR AS ALLOWED BY THE ACI CODE OR AS AUTHORIZED BY THE ENGINEERS.
3. BARS NOTED AS CONTINUOUS SHALL HAVE A MINIMUM SPLICE LENGTH OF 40 BAR DIAMETER BUT NOT LESS THAN 300mm UNLESS OTHERWISE NOTED.
4. REINFORCEMENT SHALL BE SPLICED ONLY AS INDICATED IN THE DRAWINGS.
5. MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE:

F. MASONRY WORKS

1. ALL NON-LOAD BEARING TYPE CONCRETE BLOCKS SHALL HAVE A UNIT WEIGHT NOT TO EXCEED 80 PCF. FOR LOAD BEARING TYPE, TYPE CONCRETE BLOCKS, A MINIMUM COMPRESSIVE STRENGTH OF 6.90 MPA SHALL BE DEVELOPED.
2. PROVIDE I-Ø16 VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS AND EACH SIDE OF OPENINGS.
3. LINTEL BEAMS SHALL BEAR AT LEAST 8 INCHES (200 MM) ON EACH SIDE OF MASONRY WALL OPENING.
4. WALL REINFORCEMENTS SHALL BE AS FOLLOWS.

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
8 IN. (200 MM)	Ø12 @ 600 MM	Ø10 @ 600 MM
6 IN. (150 MM)	Ø12 @ 600 MM	Ø10 @ 600 MM
4 IN. (100 MM)	Ø10 @ 600 MM	Ø10 @ 600 MM

5. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS WHERE SPLICE DOWELS FROM FOOTING OR SLABS SHALL EXTEND INTO THE BLOCK WALL A MINIMUM OF 40 BAR DIAMETERS, AND DOWELS TO MATCH.
6. ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT (REFER TO SPECIFICATIONS).

ITEMS	COVER
CONCRETE CAST AGAINST EARTH	75mm
EXPOSED TO EXTERIOR OR WEATHER	50mm
FORMED SURFACE BELOW GRADE	50mm
SLAB ON GRADE	50mm
COLUMNS/SHEARWALLS AND BEAMS	40mm
STRUCTURAL SLABS TOP AND BOTTOM (INTERIOR)	25mm
R.C. WALLS	20mm

6. WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS MATERIAL TEST RESULT PROVES THAT THE BAR IS WELDABLE.
7. SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL PREPARED IN ACCORDANCE WITH ACI 315. INDICATE BENDING DIAGRAM, ASSEMBLY DIAGRAM, SPLICING AND LAPS OF RODS AND SHAPES DIMENSIONS AND DETAILS FOR REINFORCING BARS.
8. ANCHOR BOLTS, DOWELS, AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.

SCHEDULE OF DEVELOPMENT LENGTH

BAR SIZE (GR. 60)	DEVELOPMENT LENGTH (Ld)						
	f'c = 21MPa (3000 psi)	f'c = 28MPa (4000 psi)	f'c = 34MPa (5000 psi)	f'c = 42MPa (6000 psi)	f'c = 48MPa (7000 psi)	f'c = 55MPa (8000 psi)	f'c = 68MPa (10000 psi)
10mmØ (#3)	450	400	350	325	300	275	250
12mmØ (#4)	525	475	425	375	350	325	300
16mmØ (#5)	700	625	550	500	475	425	400
20mmØ (#6)	875	775	675	625	575	550	475
22mmØ (#7)	975	850	750	675	625	600	525
25mmØ (#8)	1350	1175	1050	950	900	825	750
28mmØ (#9)	1500	1300	1175	1075	1000	925	825
32mmØ (#10)	1725	1500	1350	1225	1125	1050	950
36mmØ (#11)	1950	1675	1500	1375	1275	1200	1075

SCHEDULE OF LAP SPLICE

BAR SIZE (GR. 60)	LAP SPLICE (Lb)						
	f'c = 21MPa (3000 psi)	f'c = 28MPa (4000 psi)	f'c = 34MPa (5000 psi)	f'c = 42MPa (6000 psi)	f'c = 48MPa (7000 psi)	f'c = 55MPa (8000 psi)	f'c = 68MPa (10000 psi)
10mmØ (#3)	600	525	475	425	400	375	325
12mmØ (#4)	700	625	575	500	475	425	400
16mmØ (#5)	925	825	725	650	625	575	525
20mmØ (#6)	1150	1025	900	825	750	725	625
22mmØ (#7)	1275	1125	975	900	825	800	700
25mmØ (#8)	1775	1550	1375	1250	1175	1075	975
28mmØ (#9)	1950	1700	1550	1400	1300	1225	1075
32mmØ (#10)	2250	1950	1775	1600	1475	1375	1250
36mmØ (#11)	2550	2200	1950	1800	1675	1575	1400

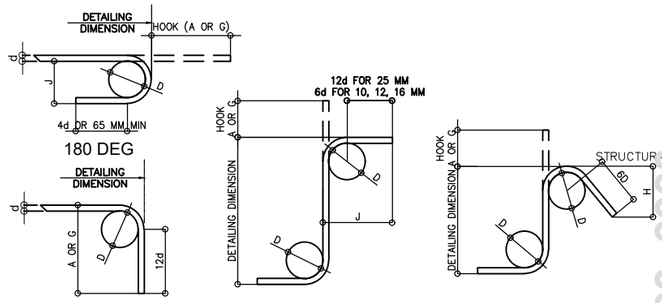
SCHEDULE OF DEVELOPMENT LENGTH OF STANDARD HOOKS

BAR SIZE (GR. 60)	DEVELOPMENT LENGTH OF STANDARD HOOKS (Ldh)						
	f'c = 21MPa (3000 psi)	f'c = 28MPa (4000 psi)	f'c = 34MPa (5000 psi)	f'c = 42MPa (6000 psi)	f'c = 48MPa (7000 psi)	f'c = 55MPa (8000 psi)	f'c = 68MPa (10000 psi)
10mmØ (#3)	220	190	170	155	150	150	150
12mmØ (#4)	265	230	205	190	175	165	150
16mmØ (#5)	350	305	275	250	230	215	195
20mmØ (#6)	440	380	340	310	290	270	240
22mmØ (#7)	485	420	375	340	315	295	265
25mmØ (#8)	550	475	425	390	360	335	300
28mmØ (#9)	615	530	475	435	405	375	340
32mmØ (#10)	700	610	545	495	460	430	385
36mmØ (#11)	790	685	610	560	515	485	435

BAR SIZE (GR. 40)	DEVELOPMENT LENGTH OF STANDARD HOOKS (Ldh)						
	f'c = 21MPa (3000 psi)	f'c = 28MPa (4000 psi)	f'c = 34MPa (5000 psi)	f'c = 42MPa (6000 psi)	f'c = 48MPa (7000 psi)	f'c = 55MPa (8000 psi)	f'c = 68MPa (10000 psi)
10mmØ (#3)	150	150	150	150	150	150	150
12mmØ (#4)	175	155	150	150	150	150	150

STANDARD HOOKS, ALL GRADES

BAR SIZE (GR. 60)	FINISHED BEND DIAMETER, D (MM)	STANDARD HOOKS	
		90° X (MM)	180° Y (MM)
10mmØ (#3)	60	180	100
12mmØ (#4)	72	216	120
16mmØ (#5)	96	288	160
20mmØ (#6)	120	360	200
22mmØ (#7)	132	396	220
25mmØ (#8)	150	450	250
28mmØ (#9)	224	560	336
32mmØ (#10)	256	640	384
36mmØ (#11)	288	720	432



STANDARD HOOKS STIRRUPS AND TIE-HOOKS

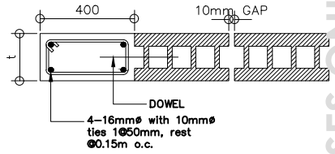
CONCRETE HOLLOW BLOCKS REINFORCEMENT

THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
0.076m	10ø @ 0.60m O.C.	10ø @ 0.60m O.C.	A. MIN. LAP SPLICE = 0.25M B. PROVIDE RIGHT ANGLE REINFORCEMENT AT CORNER 0.90M LONG. C. WHERE CHB WALLS ADJOINING COLUMN, R.C. BEAM, WALL DOWEL W/ SAME SIZE AS VERTICAL OR HORIZONTAL REINFORCEMENT SHALL BE PROVIDED.
0.102m	10ø @ 0.60m O.C.	10ø @ 0.60m O.C.	
0.152m	10ø @ 0.60m O.C.	10ø @ 0.60m O.C.	
0.208m	10ø @ 0.60m O.C.	10ø @ 0.60m O.C.	

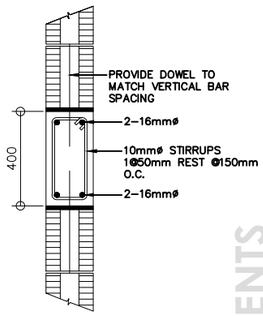
CHB STIFFENER DETAILS

NOTE:
PROVIDE VERTICAL STIFFENERS EVERY 3000mm O.C. MAXIMUM
PROVIDE HORIZONTAL STIFFENERS EVERY 3000mm O.C. MAXIMUM

VERTICAL STIFFENER



HORIZONTAL STIFFENER

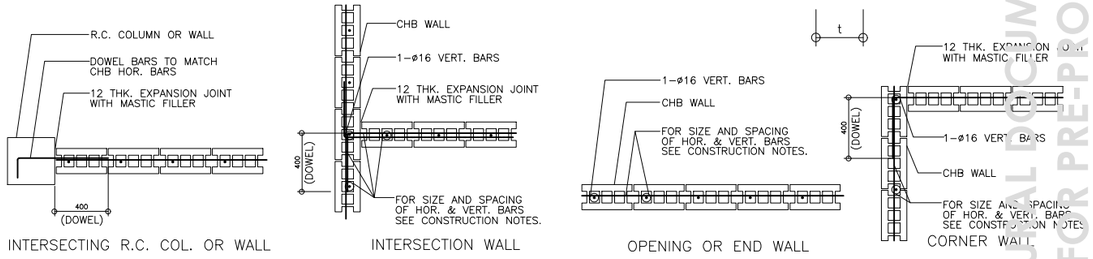


CONCRETE WALLS:

UNLESS OTHERWISED INDICATED IN THE PLANS, WALL REINFORCEMENT SHALL BE FOLLOWED ACCORDING TO THE FOLLOWING SCHEDULE

WALL THK.	REINFORCEMENT		REMARKS	VERTICAL SECTION
	HORIZONTAL	VERTICAL		
0.10m	10ø @ 0.25m O.C.	10ø @ 0.30m O.C.	HOR. & CENTER VERT. BARS STAGGERED OUTSIDE	
0.125m	10ø @ 0.20m O.C.	10ø @ 0.25m O.C.	– DO –	
0.15m	12ø @ 0.25m O.C.	12ø @ 0.30m O.C.	BOTH FACES HOR. SHALL BE INSIDE	
0.178m	12ø @ 0.23m O.C.	12ø @ 0.25m O.C.	– DO –	
0.20m	12ø @ 0.30m O.C.	12ø @ 0.30m E.F.	BOTH FACES HOR. SHALL BE OUTSIDE	
0.225m	12ø @ 0.20m O.C.	12ø @ 0.25m O.C. E.F.	– DO –	
0.25m	12ø @ 0.30m O.C. E.F.	12ø @ 0.30m O.C. E.F.	– DO –	
0.275m	12ø @ 0.25m O.C. E.F.	12ø @ 0.30m O.C. E.F.	– DO –	
0.30m	12ø @ 0.23m O.C. E.F.	12ø @ 0.27m O.C. E.F.	– DO –	
0.35m	12ø @ 0.20m O.C. E.F.	12ø @ 0.25m O.C. E.F.	– DO –	
0.40m	12ø @ 0.25m O.C. E.F.	12ø @ 0.30m O.C. E.F.	– DO –	

TYPICAL CONNECTION DETAIL OF MASONRY WALL



CAD BY: **EHD JOSHUA A. ALVARO**

1 / S 01 **STRUCTURAL NOTES**

SCALE NOT TO SCALE

STRUCTURAL DOCUMENTS ISSUED FOR PRE-PROCUREMENT PURPOSES ONLY - JUNE 28, 2023

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES

LOCATION :
DSWD - RECEPTION AND STUDY CENTER FOR CHILDREN, PUGUIS, LA TRINIDAD, BENGUET

SHEET CONTENT :
CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY
STRUCTURAL NOTES

APPROVED BY
LEO L. QUINTILLA
Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY
RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
ENGR. COLLIN JONES C. TUNGOL
Engineer II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

DRAWING STATUS

DATE	DESCRIPTION/REMARKS	BY

PLAN CATEGORY	SHEET NUMBER	PAPER SIZE
S	01/06	A3

DSWD Field Office Cordillera Administrative Region, 40 North Drive, 2600 Baguio City, Philippines
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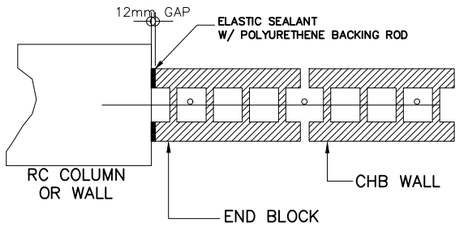
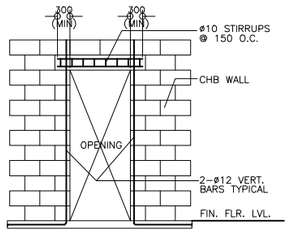
NOTE: ALL DIMENSIONS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. DO NOT SCALE THIS DRAWING.

CHB REINFORCING DETAILS



CHB WALL OPENING DETAILS



ELEVATION

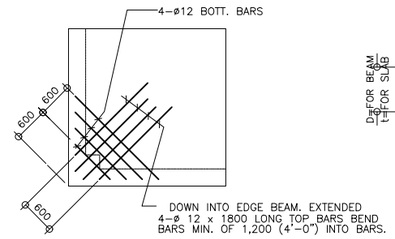
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING

G. STRUCTURAL STEEL NOTES

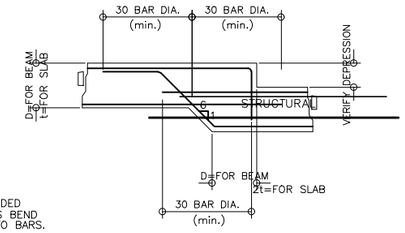
1. STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISIONS OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS 1989 - 9TH EDITION.

STRUCTURAL STEEL MEMBERS	ASTM A-36, GR 36 OR A992
	Fy = 248 MPa (36 ksi)
LC PURLIN	Fy = 248 MPa (36 ksi)
STEEL PLATES	Fy = 248 MPa (36 ksi)

2. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO A325 UNLESS OTHERWISE INDICATED. ANCHOR BOLTS SHALL LIKEWISE BE OF EQUAL STRENGTH AS A325 BOLTS OF THE SAME.
3. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS STRUCTURAL WELD CODE D1-1 LATEST REVISION FOR SHIELDING METAL ARC WELDING PROCESS, ELECTRODES E-70 SHALL CONFORM TO AWS AS-1 OR LATEST EDITION. SUBMERGED ARC WELDING PROCESS MAY BE USED AT THE OPTION OF FABRICATOR UPON THE APPROVAL OF ENGINEER.
4. ALL WELDED CONNECTIONS MUST DEVELOP THE FULL STRENGTH OF THE MEMBERS.
5. FABRICATION AND WELDING SHALL BE GOVERNED BY APPLICABLE PROVISIONS OF THE LATEST AISC OR AWS STANDARDS.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHECK ACTUAL FIELD CONDITIONS PRIOR TO PREPARATION OF FABRICATION (SHOP) DRAWINGS.
7. THE CONTRACTOR SHALL PREPARE FABRICATION (SHOP) DRAWINGS OF ALL STRUCTURAL STEEL MEMBERS BASED ON THE DESIGNS FOR APPROVAL OF THE ENGINEER PRIOR TO FABRICATION.
8. ALL DOUBLE-ANGLE STRUCTURAL MEMBERS SHAL BE PROVIDED WITH GUSSET PLATES AS SHOWN IN THE DRAWINGS.
9. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL RECEIVE AT LEAST ONE COAT OF RED LEAD PAINT.

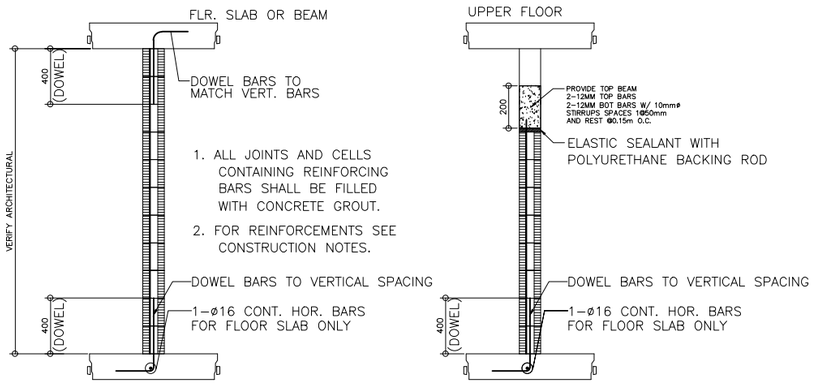


TYPICAL CORNER SLAB DETAIL

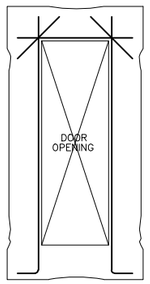


TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

SUPPORTED WALL DETAILS

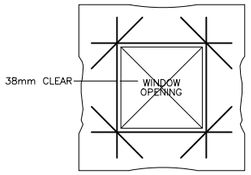


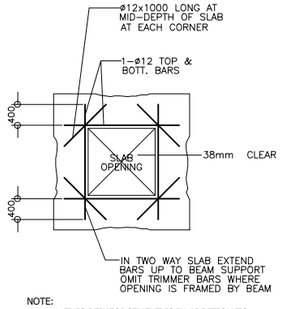
SUPPORTED WALL DETAILS



TYP. EXTERIOR WDW. & DOOR OPENING

NOTE:
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING
SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.

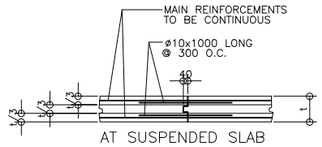




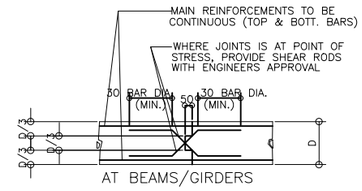
NOTE:
1. THIS REINFORCEMENT IS IN ADDITION TO ANY REINFORCEMENT INDICATED ON PLANS.

TYP. SLAB OPENING DETAIL

CONSTRUCTION JOINT DETAIL

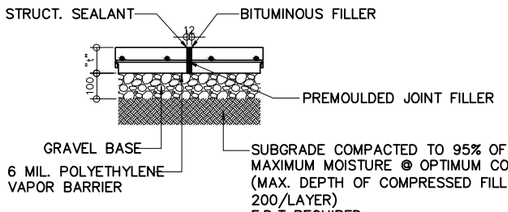


AT SUSPENDED SLAB

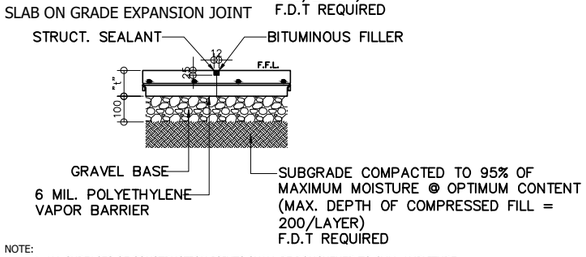


AT BEAMS/GIRDERS

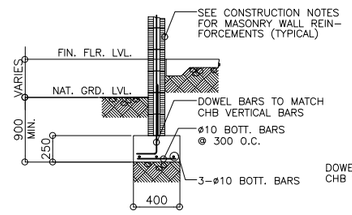
SLAB ON GRADE CONSTRUCTION JOINT



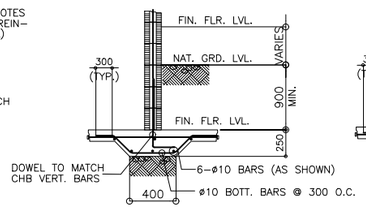
SLAB ON GRADE EXPANSION JOINT



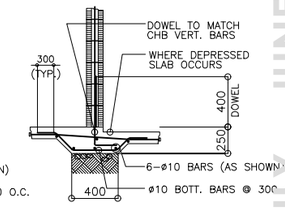
NOTE:
1. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE ROUGHENED TO 6MM. AMPLITUDE
2. ALL CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN MATTERS PRIOR TO PLACING OF ADJACENT CONCRETE.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS FOR THE APPROVAL OF STRUCTURAL ENGINEER BEFORE STARTING CONSTRUCTION.



WF1

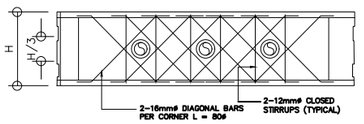


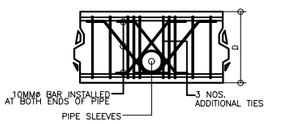
WF2



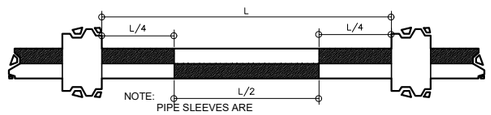
TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)

PIPE SLEEVE DETAIL





PIPE SLEEVES REINFORCEMENT



PIPE SLEEVES LOCATION

NOTE:
1. CENTER TO CENTER SPACING OF PIPE SLEEVES "S" SHALL IN NO CASE BE LESS THAN 3 TIMES THE SLEEVE DIAMETER.
2. PIPE SLEEVES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
3. PIPE SLEEVES SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL DEPTH OF THE BEAM.
4. PIPE SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE BEAM DEPTH.
5. AVOID LOCATION OF MAXIMUM STRESSES.
6. CONTRACTOR SHALL SUBMIT PIPE SLEEVE LOCATION LAYOUT FOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD, PLACE SLEEVE AT LEAST 2H FROM THE FACE OF THE SUPPORT.
7. NO CONCRETE POURING SHALL BE MADE WITHOUT OUR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

H. CURING NOTES

1. CONCRETE (OTHER THAN HIGH EARLY STRENGTH) SHALL BEKEPT IN A MOIST CONDITION FOR AT LEAST FIRST SEVEN (7) DAYS AFTER PLACEMENT.
2. HIGH EARLY STRENGTH CONCRETE SHALL BE KEPT IN A MOIST CONDITION FOR AT LEAST FIRST THREE (3) DAYS AFTER PLACEMENT.
3. USED OF WET BURLAP, FOG SPRAYING AND CURING COMPOUNDS ARE APPROVED CURING METHODS.

CAD BY: **EHD JOSHUA A. ALVARO**

1 / S 02 **STRUCTURAL NOTES**

SCALE NOT TO SCALE

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ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

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UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES

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SHEET CONTENT :
CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY
STRUCTURAL NOTES

APPROVED BY
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Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY
RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
ENGR. COLLIN JONES C. TUNGOL
Engineer II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

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PLAN CATEGORY	SHEET NUMBER	PAPER SIZE
S	02/06	A3

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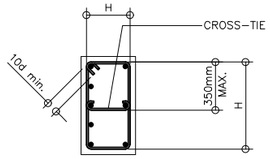
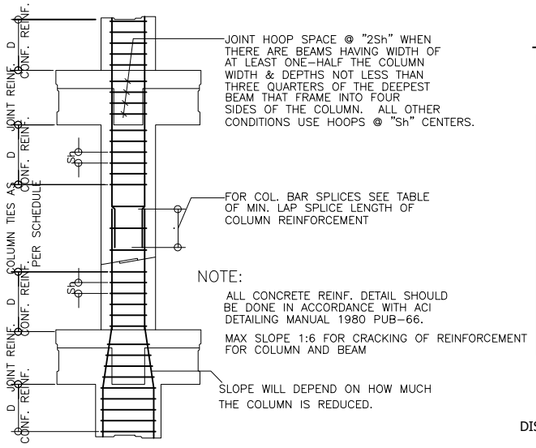
NOTE: ALL DIMENSIONS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. DO NOT SCALE THIS DRAWING.

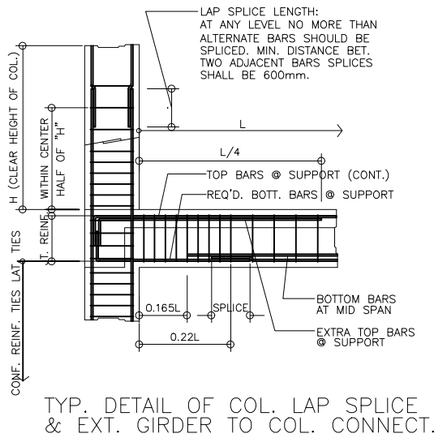
NOTES:

1. YIELD STRESS OF HOOPS = 40 KSI
2. D = USE MAXIMUM COLUMN DIMENSION, 1/6 CLEAR HEIGHT OR 18" (450mm) WHICHEVER IS GREATER.
3. NUMBER OF HOOP TIES SAME AS PER COLUMN TIES SCHEDULE.
4. ALL CONCRETE REINFORCEMENT DETAIL SHOULD BE DONE IN ACCORDANCE WITH ACI DETAILING MANUAL 1980 PUB SP-66



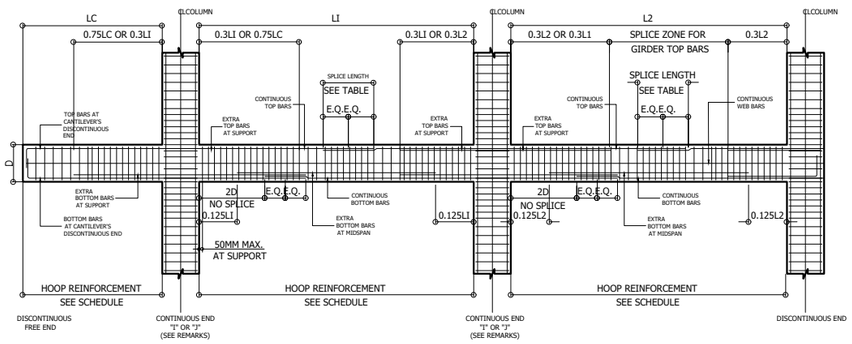


TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



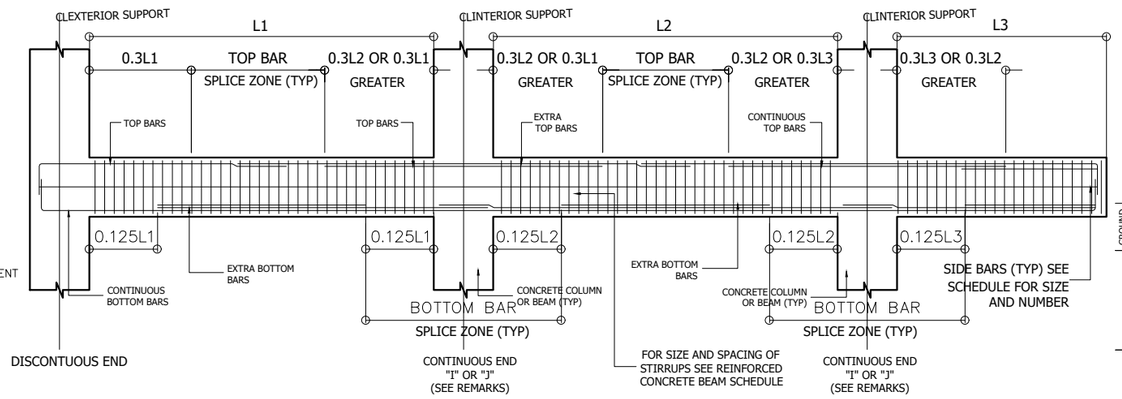
TYP. DETAIL OF COL. LAP SPLICE & EXT. GIRDER TO COL. CONNECT.

TYPICAL GIRDER DETAILS



STRUCTURAL NOTES:
1. SEE TABLE OF LAP SPLICE & ANCHORAGE LENGTHS SHOWN ON SHEET.
2. LAP SPLICE SHALL BE LOCATED ONLY WITHIN THE LAP SPLICE ZONE.
3. TOP & BOTTOM BARS MAY BE LAP SPLICED ONLY ON ONE LOCATION FOR EACH STRING OF BEAMS
4. CLOSED HOOPS WITH A 135 BEND SHALL BE SPACED AT 100 O.C. MAXIMUM AT A DISTANCE 2D FROM THE FACE OF THE SUPPORT, FIRST STIRRUP SHALL 5D FROM THE FACE OF THE SUPPORT.
5. SPACING OF STIRRUPS ON LAP SPLICE SHALL BE SPACED @ 100MM O.C. MAXIMUM.
6. AT INTERIOR SUPPORT (CONTINUOUS END) PROVIDE LARGER SIZE AND NUMBER OF TOP AND BOTTOM BARS FROM ADJACENT SPANS.
7. NO SPLICE SHALL BE ALLOWED 2D FROM THE FACE OF THE SUPPORT.

TYPICAL GRAVITY BEAM DETAILS



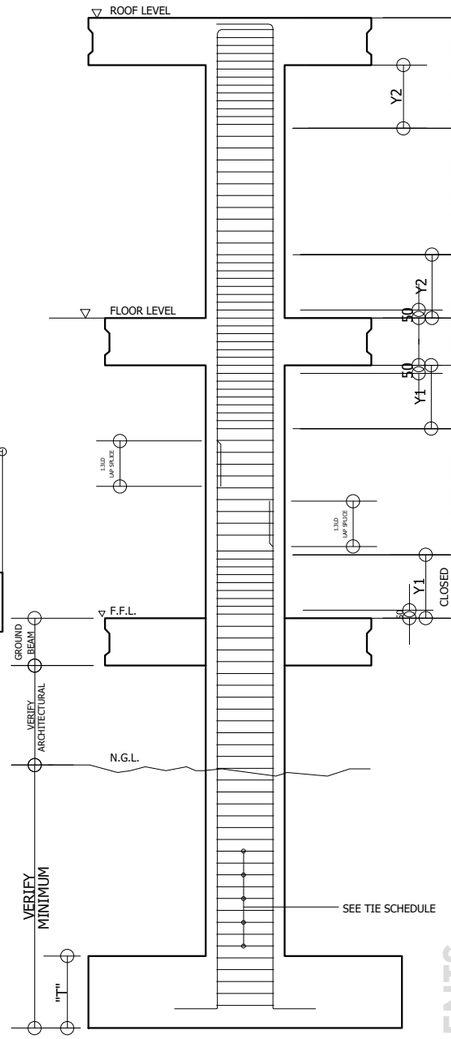
I. STRIPPING OF FORMS

NOTE:
1. FORMS SHALL RESULT IN FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE DESIGN DRAWINGS AND SPECIFICATIONS.
2. FORMS SHALL BE REMOVED IN SUCH A MANNER AS NOT TO IMPAIR SAFETY AND SERVICEABILITY OF THE STRUCTURE.

STRUCTURAL ELEMENT	PERIOD
1. BEAM/GIRDER	14 DAYS
2. SUSPENDED SLAB	8 DAYS
3. COLUMN/SHEARWALL	2 DAYS
4. RETAINING WALL	18 HOURS
5. FOUNDATION	24 HOURS

J. REMOVAL OF SHORES AND SHORING

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED UNDER CONSTRUCTION.
2. STRUCTURAL ELEMENT MUST ATTAINED SUFFICIENT STRENGTH OR DEVELOPED DESIGN PROPERTIES REQUIRED TO SUPPORT ALL LOADS, LIMIT DEFLECTIONS AND CRACKING BEFORE REMOVAL OF SHORES.
3. REMOVAL OF SHORES ARE NOT ALLOWED WITHIN THE GIVEN CURING PERIOD WHEN ADDITIONAL LOADS ARE IMPOSED, UNLESS ANAYSIS INDICATES ADEQUATE STRENGTH TO SUPPORT SUCH ADDITIONAL LOADS.
4. INSTALLATION OF RESHORES IS NECESSARY FROM ANY PART OF STRUCTURE UNDER CONSTRUCTION.



NOTES:
1. Y = MAX OF FF.
   A. H/6
   B. 450mm
   C. MAX COLUMN DIMENSION
2. SPLICES ARE PERMITTED ONLY WITHIN THE CENTER HALF OF COLUMN HEIGHT (H)
3. STAGGER BAR SPLICES BY 600mm OR MORE
4. PROVIDE TIES @100mm O.C. (MAX.) OVER THE FULL LAP SPLICE LENGTH
5. SPECIAL TIES @ THE BEAM COL. JOINT TO CONFORM TO THE SAME CONFIGURATION OF TIES AS INDICATED IN THE SCHEDULE OF COLUMNS
6. NO OF SPLICES BARS AT ONE LEVEL SHALL NOT EXCEED ONE-THIRD (1/3) OF THE TOTAL NO. OF COLUMN VERTICAL BARS

CAD BY: **EHD JOSHUA A. ALVARO**

1 / S 03 **STRUCTURAL NOTES**

SCALE NOT TO SCALE

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ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES

LOCATION :
DSWD - RECEPTION AND STUDY CENTER FOR CHILDREN, PUGUIS, LA TRINIDAD, BENGUET

SHEET CONTENT :
CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY
STRUCTURAL NOTES

APPROVED BY
LEO L. QUINTILLA
Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY
RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
ENGR. COLLIN JONES C. TUNGOL
Engineer II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

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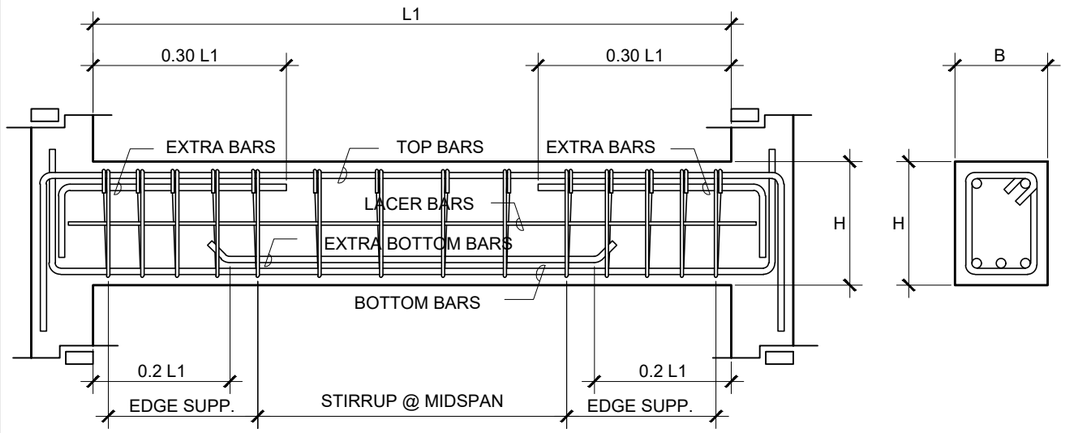
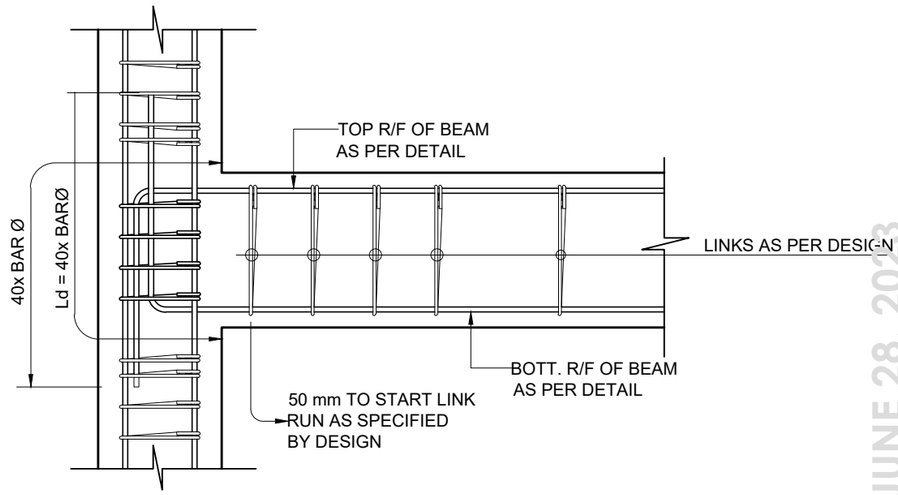


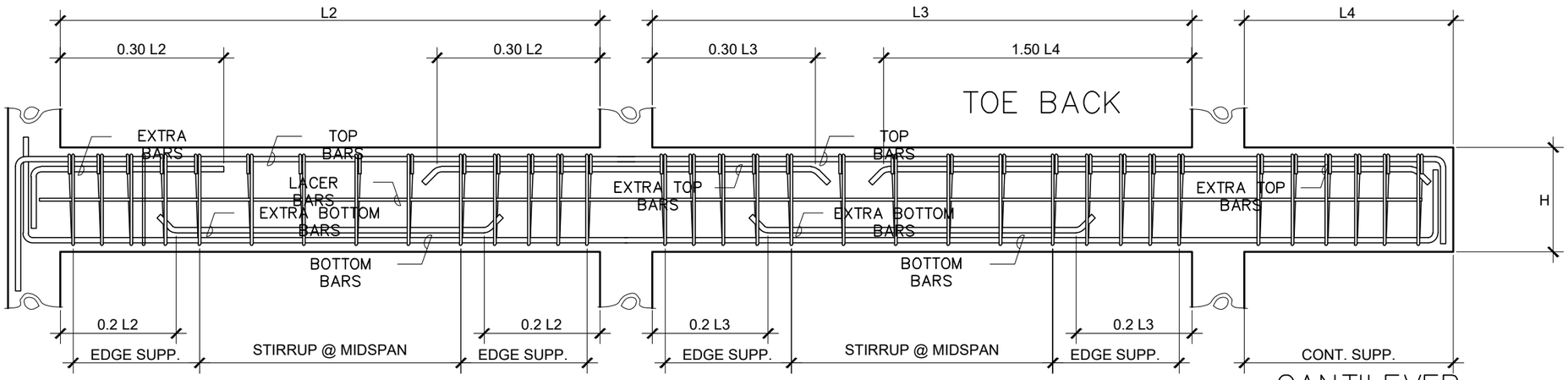
SIMPLE BEAM



Ld = DEVELOPMENT LENGTH

TYP. COLUMN BEAM JUNCTION DETAIL

NOT TO SCALE



CONTINUOUS BEAM

CANTILEVER

TYPICAL BEAM DETAIL

NOT TO SCALE

NOTE:
NO SPLICE SHALL BE PERMITTED AT MIDSPAN FOR BOTTOM BARS OR NEAR THE SUPORTS FOT TOP BARS.
MINIMUM SPLICE LENGTH SHALL BE 40X DIAMETER

CAD BY: **EHD JOSHUA A. ALVARO**

1 S 04 **STRUCTURAL NOTES**

SCALE NOT TO SCALE

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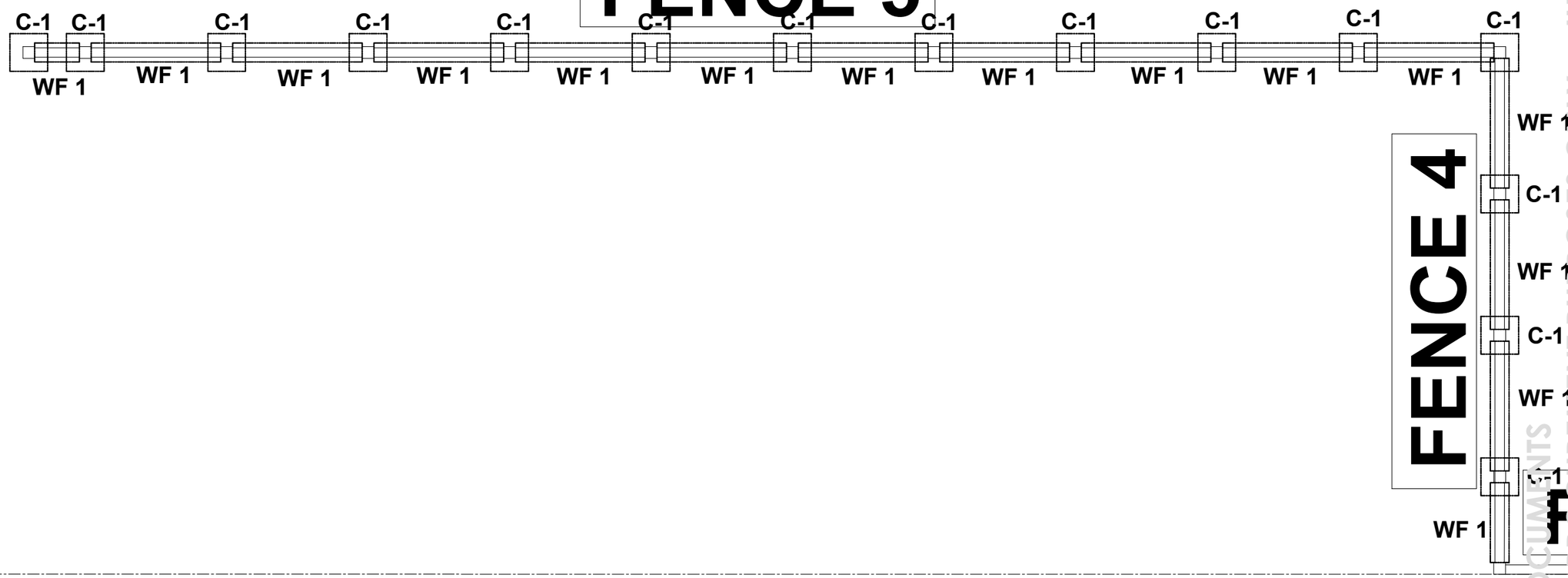
FENCE 6

FENCE 5



CAD BY: **EHD JOSHUA A. ALVARO**

FOUNDATION PLAN

1 / S 05 SCALE 1:100 METERS

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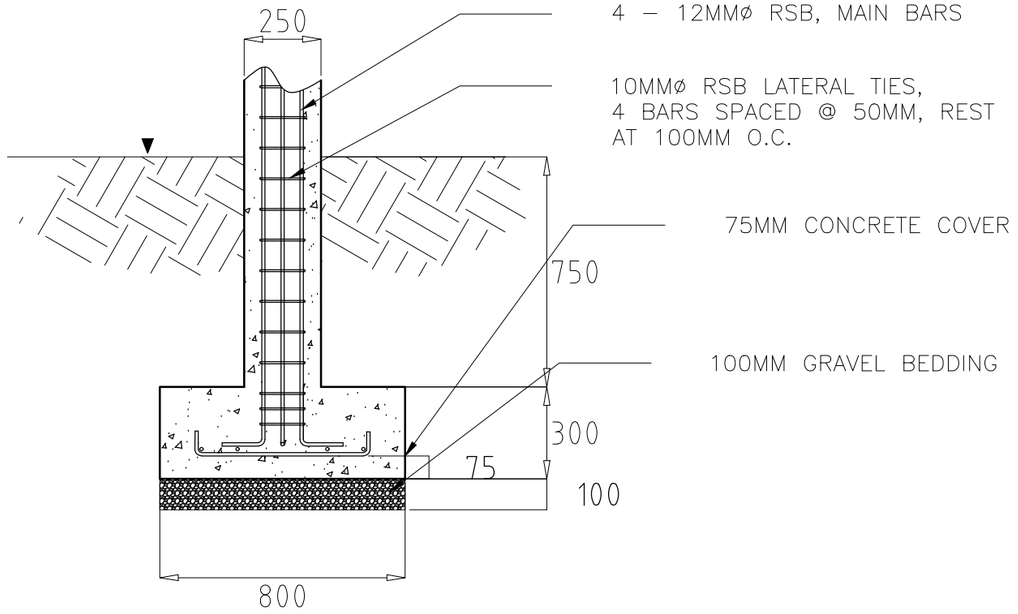
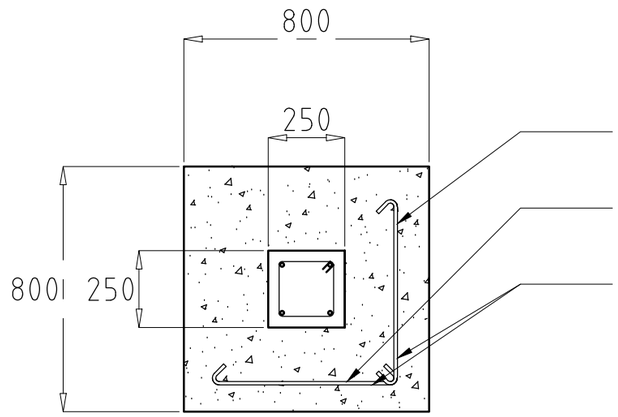
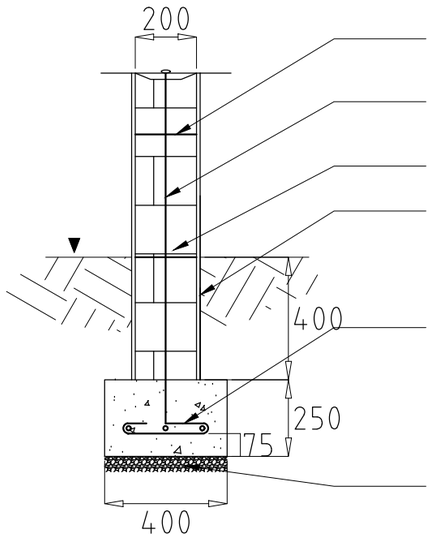


1 / S 06 **FOOTING DETAIL (SECTION)**
SCALE 1:20 METERS



CAD BY: **EHD JOSHUA A. ALVARO**

1 / S 06 **FOOTING DETAIL (PLAN)**
SCALE 1:20 METERS



1 / S 06 **WALL FOOTING DETAIL**
SCALE 1:20 METERS

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CHECKED BY
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Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
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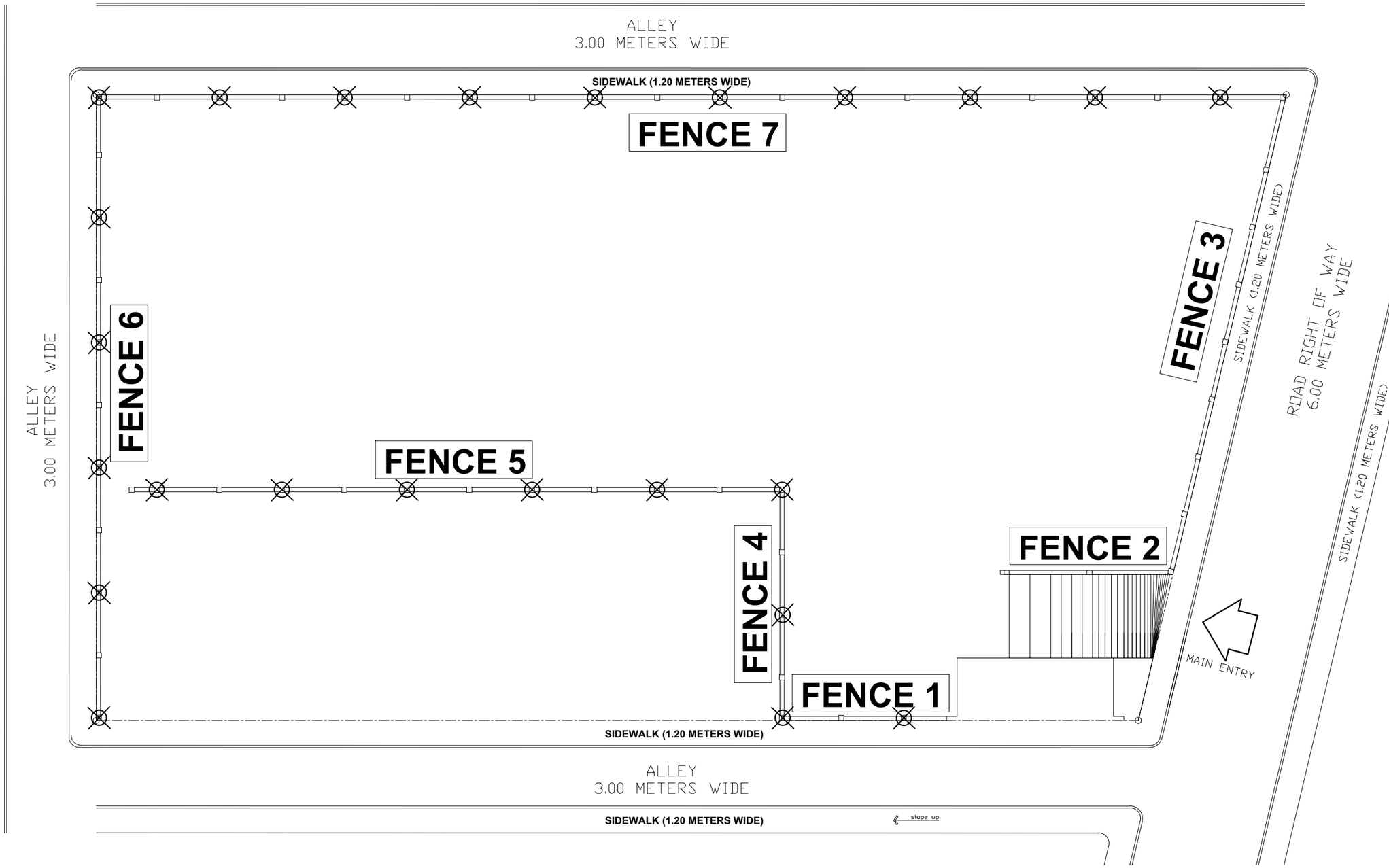

CAD BY: EHD JOSHUA A. ALVARO

1 / E 01 **LIGHTING LAYOUT**

SCALE 1:200 METERS

ADMINISTRATIVE DIVISION
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E	1/1	A3

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GENERAL NOTES

1. THESE DRAWINGS INDICATE IN GENERAL THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN INTENT, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND TYPE OF STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. AS INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

2. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL FLOOR/WALL SLEEVES AND SHAFTS IN CONCRETE SLABS/WALLS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND DISCREPANCIES, IF ANY, TO BE BROUGHT TO NOTICE OF THE ARCHITECT/ENGINEER PRIOR TO EXECUTION OF WORK.

3. THE CONTRACTOR SHALL CONDUCT HIS OWN SITE SURVEY OF THE EXISTING GROUND AND CURB ELEVATIONS (LEVELS) AND REPORT ACTUAL ELEVATIONS (LEVELS) TO THE ARCHITECT/ENGINEER.

4. CONTRACTOR'S SHOP DRAWINGS SHOULD INDICATE ACTUAL ELEVATIONS (LEVELS).

5. ALL ELEVATIONS (LEVELS) ARE IN METERS.

6. ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES UNLESS OTHERWISE NOTED.

7. ONLY WRITTEN DIMENSIONS IN ALL CASES SHALL BE FOLLOWED.

8. ALL EXISTING OR PROPOSED ELEVATIONS (LEVELS) AND DIMENSIONS, ON SITE AND ON DRAWINGS MUST BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE THE PREPARATION OF SHOP DRAWINGS OR COMMENCEMENT OF ANY ITEM OF WORK ON THE SITE.

9. ARCHITECTURAL DRAWINGS MUST ALWAYS BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT SERVICES DRAWINGS AND CONTRACT DOCUMENTS. ANY DISCREPANCY BETWEEN THESE DRAWINGS AND DOCUMENTS SHOULD BE REPORTED TO THE ENGINEER FOR CLARIFICATION AND VERIFICATION.

10. ALL ALUMINUM TRIMS SHALL BE POWDER-COATED FINISH.

11. ALL PLASTERED SURFACES SHALL BE PAINTED OR NOT PAINTED DEPENDING ON THE ARCHITECT'S DIRECTIVE.

12. ALL WALL FINISHES OR CEMENT PLASTERING WORKS ARE TO BE EXTENDED 10 CM. ABOVE SUSPENDED CEILING LEVEL (ELEVATION) OR AS INDICATED.

13. ALL UNDIMENSIONED WALL SHOULDERS SHALL BE 100MM WIDE

14. REFER SCHEDULE OF WALL TYPES FOR DIFFERENT WALL SITUATIONS.

15. ALL BLOCKWALLS ENCLOSING THE FIRE ZONES SHALL BE LIGHT WEIGHT CONCRETE BLOCKWALL AND EXTENDED UP TO THE SOFFIT OF THE SLAB TO PROVIDE 2 HRS FIRE RATING.

16. ALL SHAFT WALLS TO PROVIDE FOR 2 HRS. FIRE RATING.

17. ALL SHAFTS SHALL BE SEALED AT BOTTOM & TOP TO PROVIDE 2 HRS. FIRE RATING.

18. ALL FIRE DOORS SHALL HAVE SMOKE SEAL INTEGRAL WITH IT.

19. ALL PLUMBING H.V.A.C. OPENINGS IN FIRE RATED WALLS & SLABS SHALL BE PROVIDED WITH FIRE SMOKE SEALS OF THE SAME FIRE RATING AS OF THE WALLS & SLABS THEY PENETRATE THROUGH.

20. CONTRACTOR TO LOCATE ALL ACCESS PANEL IN THE GYPSUM BOARD CEILING FOR SERVICES ACCESS.

21. FOR AREAS WITHOUT SUSPENDED CEILING HAVING EXPOSED SLAB AND BEAMS, WALL FINISH MATERIAL SHALL BE FROM FLOOR LEVEL TO BOTTOM OF SLAB LEVEL. (UNLESS NOTED OTHERWISE)

22. THE CONTRACTOR SHALL SUBMIT SAMPLES AND SHOP DRAWINGS FOR ALL WORKS WITH ALL NECESSARY DETAILS AND DESIGN INFORMATION FOR APPROVAL.

23. NOTES APPEARING ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS ARE TO BE REVIEWED, COORDINATED AND ARE TO BE APPLIED TO ALL RELATED DRAWINGS AND DETAILS.

CONCRETE MASONRY WALL (BLOCK WALL)

1. PROVIDE CONTROL JOINT AT:

9000 MM SPACING AT LONG STRAIGHT WALLS,
AT MAJOR CHANGES IN WALL HEIGHTS,
AT CHANGES IN WALL THICKNESS,
ABOVE JOINTS IN FOUNDATIONS,
AT COLUMNS AND PILASTERS,
AT ONE OR BOTH SIDES OF WALL OPENINGS AND AT WALL INTERSECTIONS.
ALL CONTROL JOINTS SHOULD CONTINUE ALL THROUGH VERTICALLY.

ALL CONTROL JOINTS ARE TO BE FILLED WITH APPROVED COMPRESSIBLE FILLER AND

ALL EXPOSED SURFACES TO BE SEALED WITH APPROVED SEALANT AND BACK-UP ROD.

2. REFER SCHEDULE OF WALL TYPES FOR DIFFERENT WALL SITUATIONS.

3. ALL BLOCKWALLS ENCLOSING THE FIRE ZONES SHALL BE LIGHT WEIGHT CONCRETE BLOCKWALL AND EXTENDED UP TO THE SOFFIT OF THE SLAB TO PROVIDE SPECIFIED FIRE RATING

4. ALL BLOCKWALLS INDICATED ON PLAN ARE TO EXTEND TO THE SOFFIT OF THE SLAB, EXCEPT INTERNAL TOILET PARTITION, INTERNAL KITCHEN PARTITION, INTERNAL OFFICE PARTITIONS AND SMALL SPACES SUCH AS STORES.

C. EXTERIOR ENVELOPE

1. THE EXTERIOR WALL AS SHOWN SHALL BE COMPLETE SYSTEM INCLUDING ALL HOT DIPPED GALVANIZED STEEL SUPPORTS, STIFFENERS, FASTENERS, SEALANT, JOINERY, MISCELLANEOUS, PIECES, AND MATERIAL THICKNESS AS REQUIRED TO FORM HIGH QUALITY SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND THE PROFILES SHOWN.

2. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.

3. ALL DETAILS ARE TO BE COORDINATED WITH THE STRUCTURAL FRAMING, INTERIOR FINISHES AND OTHER RELATED BUILDING COMPONENTS IN ORDER TO PROVIDE A COMPLETE ENCLOSURE OF FINISH MATERIALS.

4. THE ANCHORAGE ANGLES, SHAPES AND DETAILS ARE SUGGESTIVE AND ARE TO BE ENGINEERED AND DETAILED AS REQUIRED. THE CONTRACTOR IS TO COORDINATE ALL ANCHORAGE DETAILS WITH APPROPRIATE TRADES.

5. ALL FASTENERS ARE TO BE CONCEALED, EXCEPT AS SPECIFICALLY SHOWN. ALL BUTT JOINTS ARE TO HAVE CONCEALED BACK-UP ROD WITH CAPTIVE SEALANT.

6. ATTACHMENT AND DETAILS FOR THE EXTERIOR WALL AND EXTERIOR GLASS SYSTEMS ARE SHOWN SCHEMATICALLY AND TOGETHER WITH THE SPECIFICATIONS AND THE PROFILES SHOWN ARE INTENDED TO ESTABLISH PERFORMANCE AND MATERIAL QUALITIES DESIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT OF FINAL EXTERIOR WALL DETAILS TO ACCOMMODATE THE FABRICATION, ERECTION AND INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DESIGN INTENT SHOWN.

7. SEALANT DRAINAGE SYSTEM GASKETS AND WATERPROOFING MEMBRANE SHALL BE ASSEMBLED IN SUCH A MANNER TO PROVIDE A HIGH QUALITY WEATHERPROOF BUILDING ENCLOSURE.

8. ALL PROPOSED DETAILS FOR EACH TYPE OF GLAZING ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW.

9. COLOR OF SEALANT SHALL MATCH ADJACENT MATERIALS OR AS SPECIFIED BY THE ARCHITECT/ENGINEER.

10. COORDINATE LOCATION OF EXTERIOR WALL ANCHORS, SEALANT POSITIONS WITH ADJACENT WORK INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.

11. THE DESIGN OF THE EXTERIOR WALL IS TO TAKE INTO CONSIDERATION BUILDING MOVEMENTS DUE TO WIND LOADS, THERMAL EXPANSION AND CONTRACTION, FLOOR DEFLECTIONS, SHRINKAGE, CREEP AND SIMILAR MOVEMENTS.

12. DESIGN, FABRICATE AND INSTALL COMPONENT PARTS SO THAT THE COMPLETED EXTERIOR WALL ASSEMBLY INCLUDING GLASS AND STONE CLADDING WILL WITHSTAND THE INWARD AND OUTWARD WIND SPEED OF 140 KM/HOUR

13. PROVIDE ALLOWANCE FOR EXPANSION AND CONTROL JOINTS WHERE SHOWN AND AS REQUIRED. LOCATION OF ALL JOINTS SHALL BE REVIEWED WITH THE ENGINEER.

14. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER AS REQUIRED TO PREVENT MOLECULAR BREAKDOWN.

15. ALL ALUMINUM DOOR/WINDOW FRAMES, LOUVERS, SHALL BE FINISHED AS PER DOOR, WINDOW, LOUVER SCHEDULE. REFER TO RELEVANT DRAWINGS

FIRE PROTECTION

11. ALL OPENINGS IN SLABS AT MECHANICAL ROOMS (INCLUDING SPACES LEFTOVER IN THE SHAFTS AFTER INSTALLATION OF DUCTS) MUST BE SEALED OFF WITH NON-COMBUSTIBLE MATERIALS TO MAINTAIN THE REQUIRED FIRE-RATING CONTINUITY OF THE FLOOR CONSTRUCTION. CONTRACTOR SHALL SUBMIT SHOP-DRAWINGS FOR APPROVAL FOR ALL SUCH CASES.

12. ALL OPENINGS AT SLABS, WALLS SHALL BE SEALED OFF (FILLED) WITH NON-COMBUSTIBLE MATERIALS TO MAINTAIN THE REQUIRED FIRE RATING CONTINUITY OF THE FLOOR, WALL CONSTRUCTION. ALL HOLES, INCLUDING THOSE FOR MECHANICAL, AND ELECTRICAL FACILITIES WHICH ARE LOCATED ON FLOOR SLAB, PARTITIONS AND WALLS MUST BE FILLED WITH NON-COMBUSTIBLE MATERIALS TO PROVIDE REQUIRED FIRE RATING AND SHALL BE SEALED AGAINST PASSAGE OF SMOKE AND FLAME.

13. A FINISH OR FIRE RATING INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH OF WALL IS TO BE FINISHED OR FIRE RATED.

14. CONTRACTOR MUST PROVIDE THE FOLLOWING (WHEN APPLICABLE):

SMOKE DETECTOR IN EVERY HALL
FOLLOWING ARE THE REQUIREMENTS FOR KITCHENS:
HEAT DETECTORS
FIRE EXTINGUISHER CONTAINING POWDER
FIRE BLANKET
EXHAUST FANS MADE OF STEEL OR PLASTIC (OF ACCEPTABLE STANDARD) IN KITCHEN & BATHROOMS
FIRE RESISTANT DOORS WITH PROPER HANDLES
EXIT SIGNS

GUARDRAIL & HANDRAILS

1. ALL GUARDRAIL AND HANDRAIL ASSEMBLIES SHALL RESIST A HORIZONTAL THRUST OF 75 KG./M. APPLIED AT THE TOP OF THE RAILING OR A 110 KG/M. LOAD APPLIED IN ANY DIRECTION AT TOP OF RAIL, WHICHEVER IS THE MOST RESTRICTIVE FOR EACH AND EVERY APPLICATION.

ALL MILD STEEL HANDRAILS SHALL BE PAINTED.

TILING, STONEWORK, PAVING ETC.

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ARCHITECT'S REVIEW AND APPROVAL, SHOWING ALL DETAILS LAYOUTS,ELEVATIONS, SECTION ETC. SHOP DRAWINGS TO ALSO INDICATE ALL JOINT THICKNESS, ALIGNMENT AND RELEVANT DETAILS.

WATERPROOFING

1. PROVIDE FLUID APPLIED CEMENTITIOUS WATER PROOFING IN ALL WET AREAS LAID ON CONCRETE SLAB (TOILETS, KITCHENS, MECH. ROOMS, SHAFTS ETC.) & EXTEND IT UP TO 100 MM ABOVE FLOOR FINISH.
2. PROVIDE WATERPROOFING MEMBRANE AT ALL EXTERIOR SURFACES.
3. ALL MECHANICAL EQUIPMENT BASES SHALL BE WATERPROOFED AS/SPECS.

EXTERIOR SOFFIT

1. ALL EXTERIOR SOFFITS SHALL HAVE A MINIMUM 75 MM THICK INSULATION (SEMI-RIGID INSULATION ATTACHED DIRECTLY TO STRUCTURAL SOFFIT & LINED WITH GYPSUM BOARD) TO PROVIDE REQUIRED "U" VALUE.

STONE CLADDING

1. ALL STONE FIXING ANCHORS SHALL BE STAINLESS STEEL (#316)
2. MECHANICAL FIXING DEVICES ARE TO BE PROVIDED FOR ALL STONE CLADDING BOTH FOR EXTERIOR AND INTERIOR APPLICATIONS, UNLESS NOTED OTHERWISE.
3. FOR STONE FINISHES AND TYPES REFER TO RELEVANT DRAWINGS.
4. PROFILES OF STONE CLADDING INIDICATED IN THESE DOCUMENTS ARE TO CONVEY DESIGN INTENT ONLY. THE CONTRACTOR IS TO DETAIL STONE SIZES, THICKNESSES (30MM MIN.) AND FIXING ARRANGEMENTS TO ACHIEVE THE DESIGN INTENT.

METAL WORKS

1. ALL MILD STEEL WORKS (I.E. RAILS,ANGLES ETC.) SHOWN ON THE CONTRACT DRAWINGS/DETAILS SHALL BE PRIMED AND SHALL BE PAINTED WITH TWO COATS OF EPOXY PAINT.
2. STEEL ELEMENTS NOT SHOWN IN THE CONTRACT DRAWINGS, BUT ARE DEEMED NECCESSARY FOR THE SATISFACTORY COMPLETION OF THE WORKS SHALL BE GALVANISED STEEL PRIMED & PAINTED WITH TWO COATS OF EPOXY PAINT FOR ALL INTERIOR SITUATIONS AND STAINLESS STEEL (#316) FOR ALL EXTERIOR SITUATIONS.
3. ALL WELDED STEEL JOINT SHALL BE GRINDED SMOOTH, PRIMED & PAINTED.
4. ALL WELDING SHALL BE OF SUITABLE TYPE TO STEEL WORKS.

MOCK-UP'S

1. CONTRACTOR TO COMPLETE FINISHES MOCK-UP LIMITS OF WHICH ARE SHOWN ON ARCH. DRAWINGS. THE MOCK-UP SHALL INCLUDE ALL REQUIRED WALL, FLOOR & CEILING FINISHES.
2. PROVIDE EXTERNAL ELEVATIONS MOCK-UP'S AS / SPECS.

OTHERS

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATION LEVELS ARE IN METERS.

2. DO NOT SCALE DRAWINGS, DIMENSIONS GIVEN SHALL GOVERN.

3. PRIOR TO COMMENCE WORK, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON SITE & SECURE NECESSARY PERMITS FOR CONSTRUCTION.

4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SAMPLES OF ALL MATERIALS & COLORS FOR SITE ARCHITECT'S APPROVAL.

5. UNLESS OTHERWISE NOTED 200 mm. & 100 mm. THK. CMU WALL TO BE USED FOR INTERNAL WALLS AS SHOWN ON DRAWINGS.

6. COORDINATION BETWEEN ARCHITECTURAL DRAWINGS AND ALL OTHER ENGINEERING DRAWINGS SHALL BE THE MAIN CONTRACTOR'S RESPONSIBILITY PRIOR TO ANY WORK.

7. ALL SIZES SHOWN FOR WINDOWS ARE MASONRY OPENINGS , CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.

8. ALL MATERIALS SHALL BE NEW AND APPROVED SPECIFICATION OR EQUAL TO THE ARCHITECT'S STANDARD.

9. CONTRACTOR ARE REQUIRED TO SUBMIT SAMPLE OF ALL FINISHES, PREPARE SHOP DRAWINGS AND SECURE A WRITTEN APPROVAL BY "ARCHITECT" APPROVING AUTHORITY PRIOR TO FABRICATION.

ARCHITECTURAL DOCUMENTS ISSUED FOR PRE-PROCUREMENT PURPOSES ONLY - JUNE 29, 2023

GENERAL ARCHITECTURAL NOTES

1 / A 01 SCALE NOT TO SCALE

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
"UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES"

LOCATION :
DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :
CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

ARCHITECTURAL NOTES

APPROVED BY
LEO L. QUINTILLA
Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY
RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
AR. JIMMY M. MAYORES
Architect II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

DRAWING STATUS

DATE	DESCRIPTION/REMARKS	BY

PLAN CATEGORY	SHEET NUMBER	PAPER SIZE
A	01/13	A3

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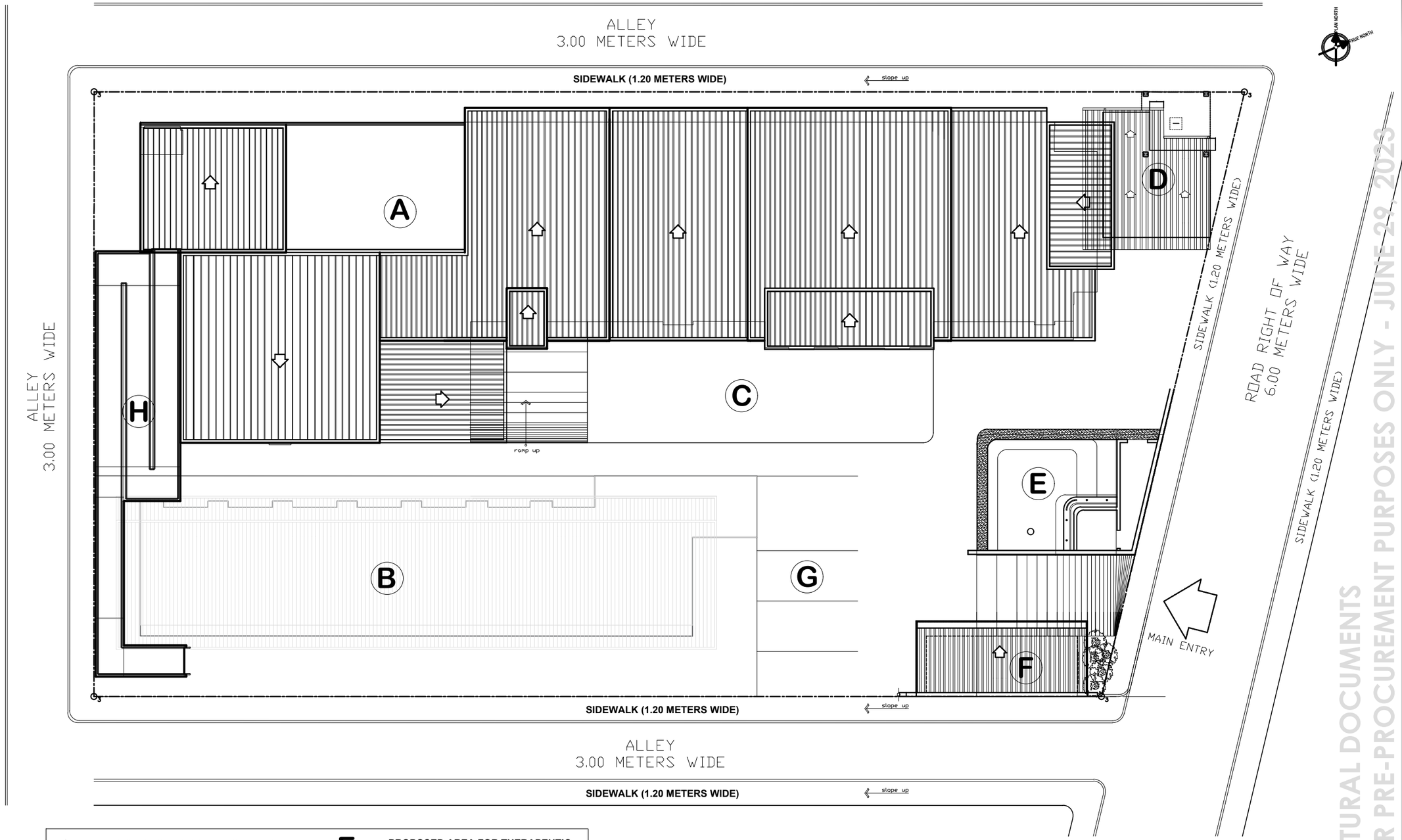
Email: focar@dswd.gov.ph Tel. Nos.: (6374) 446-5961/662-0430 | (6302) 396-6580
Mobile Nos.: (63917) 871-9893/872-0256 | (63919) 065-5365 to 68 Website: www.car.dswd.gov.ph

NOTE: ALL DIMENSIONS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. DO NOT SCALE THIS DRAWING.



A	RECEPTION AND STUDY CENTER FOR CHILDREN	E	PROPOSED AREA FOR THERAPEUTIC POOL (WADING POOL FOR CHILDREN)
B	EXISTING ISOLATION FACILITY BUILDING FOOTPRINT	F	PROPOSED AREA FOR GUARD HOUSE
C	PROPOSED PLAYGROUND	G	PROPOSED PARKING AREA
D	PROPOSED AREA FOR MAINTENANCE (GENERATOR SET & FIRE PUMP/TANK)	H	PROPOSED AREA FOR ACCESS RAMP

1 / A 02 **RSCC MASTER SITE DEVELOPMENT PLAN**
SCALE 1:200 METERS

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
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LOCATION :
DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :
CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY
SITE DEVELOPMENT PLAN

APPROVED BY
LEO L. QUINTILLA
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ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

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Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
AR. JIMMY M. MAYORES
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PROJECT/TA No: **CAR-FO-AD-BGMS-A-PR-23-06-19971-S**

DATE SUBMITTED: **28 JUNE 2023**

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PLAN CATEGORY	SHEET NUMBER	PAPER SIZE
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ARCHITECT'S PERSPECTIVE
1 / A 03 SCALE NOT TO SCALE

DSWD
ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :

"UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES"

LOCATION :

DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :

CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

ARCHITECT'S PERSPECTIVE

APPROVED BY

LEO L. QUINTILLA
Regional Director

CONFORMED BY

ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY

RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

AR. JIMMY M. MAYORES
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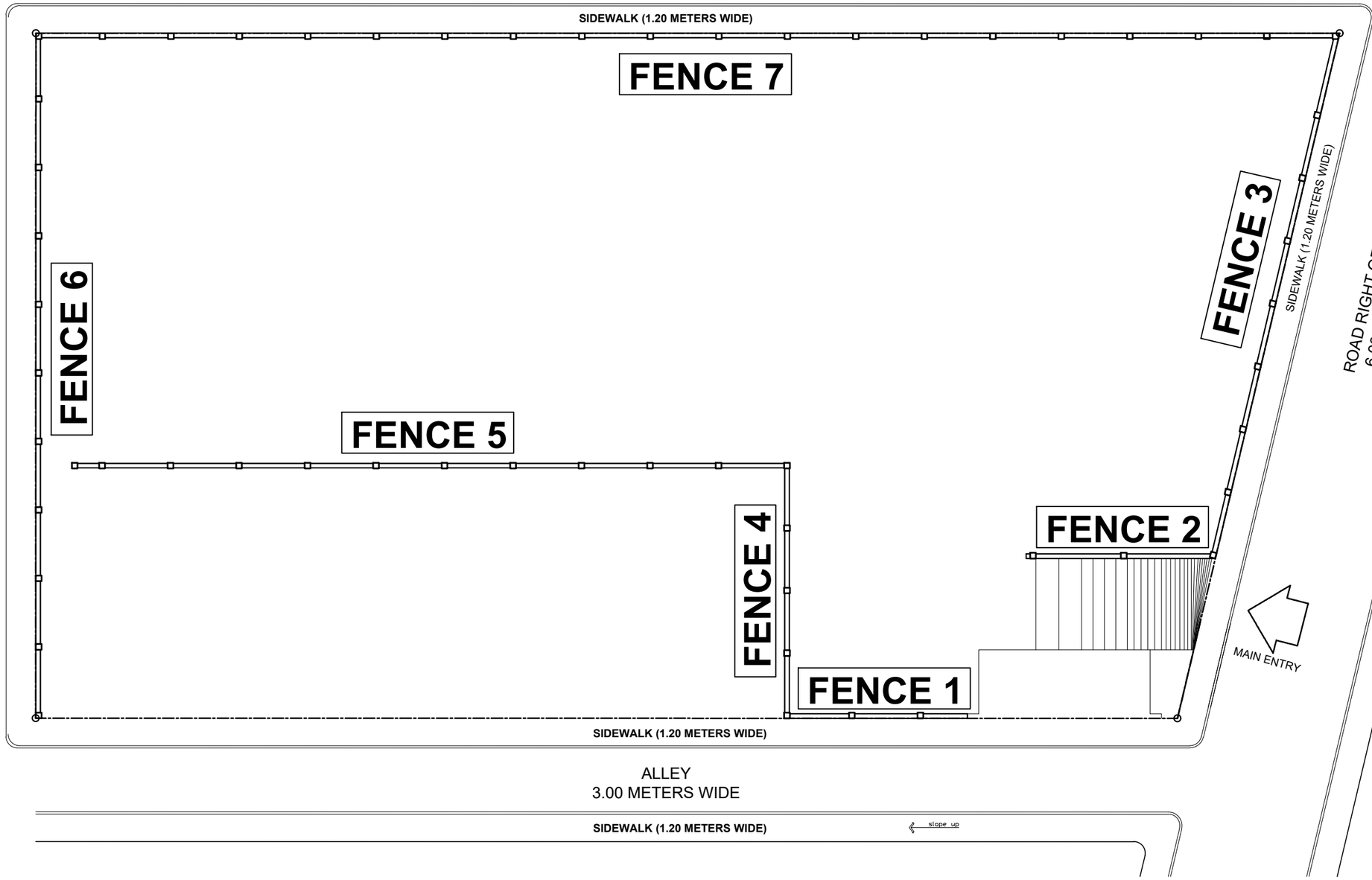

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DSWD
Department of Social Welfare and Development

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
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LOCATION :
DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :
CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

FENCE DEMARCATION LAYOUT

APPROVED BY
LEO L. QUINTILLA
Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY
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Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
AR. JIMMY M. MAYORES
Architect II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

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1 / A 04 **PERIMETER FENCE DEMARCATION LAYOUT**
SCALE 1:200 METERS

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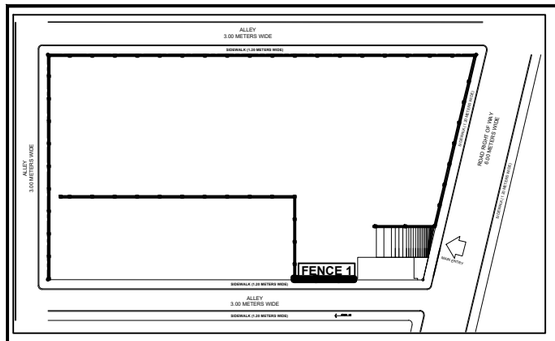
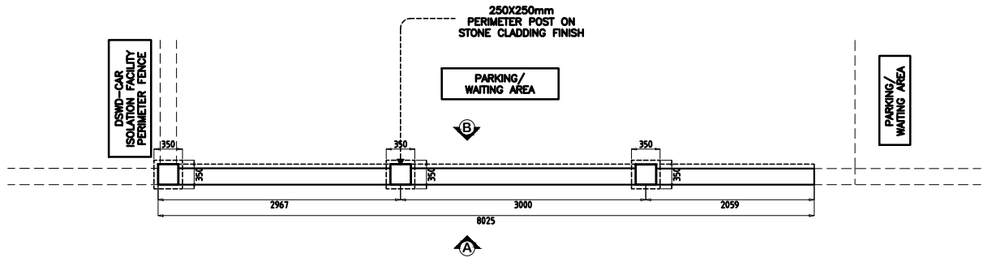


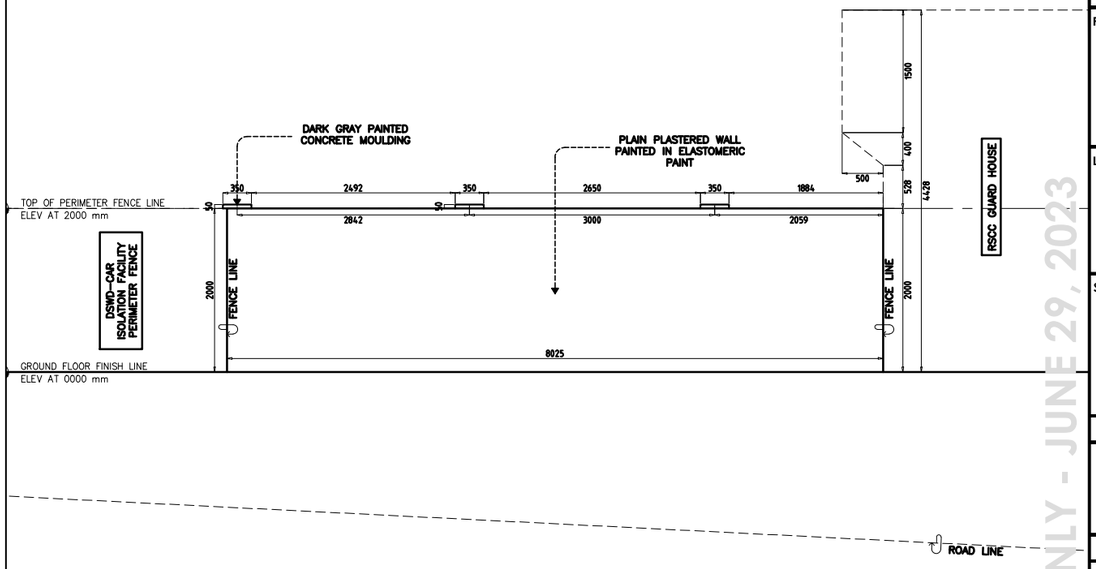
KEY PLAN



1 A 05 FENCE 1 - PLAN

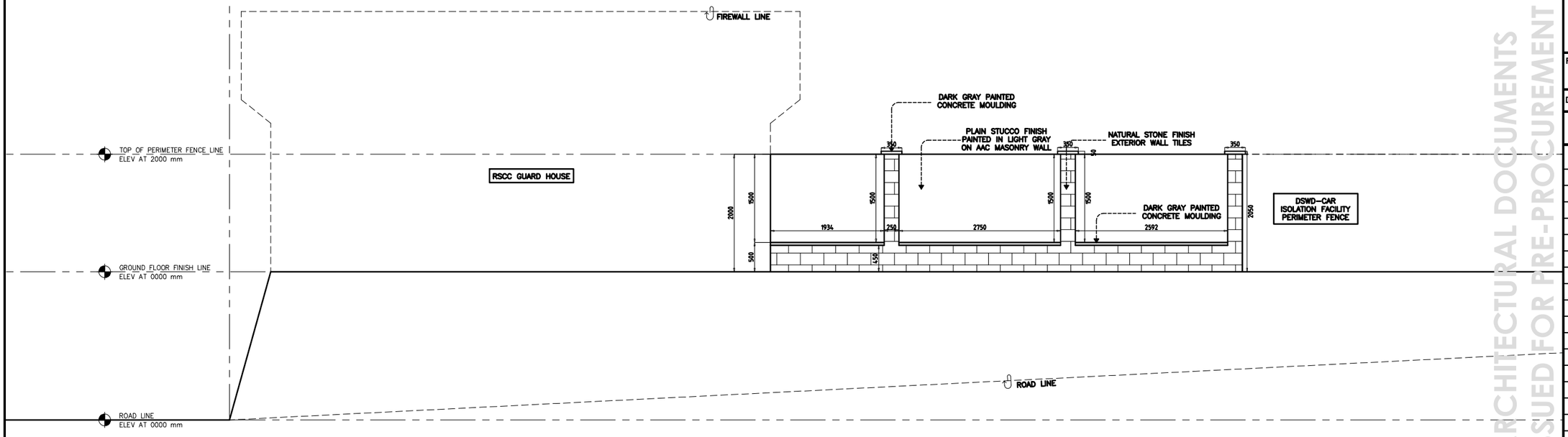
SCALE 1:75 METERS

NOTE: ALL DIMENSIONS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. DO NOT SCALE THIS DRAWING.



2 A 05 FENCE 1 - ELEVATION A

SCALE 1:75 METERS



3 A 05 FENCE 1 - ELEVATION B

SCALE 1:75 METERS

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DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
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SHEET CONTENT :

CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

FENCE 1 DETAILS

APPROVED BY

LEO L. QUINTILLA
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PREPARED/DESIGNED BY

AR. JIMMY M. MAYORES
Architect II, AD - BGMS

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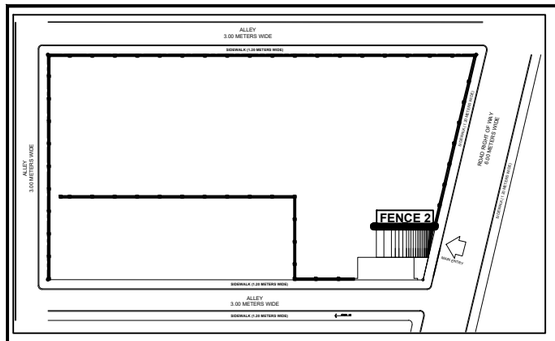
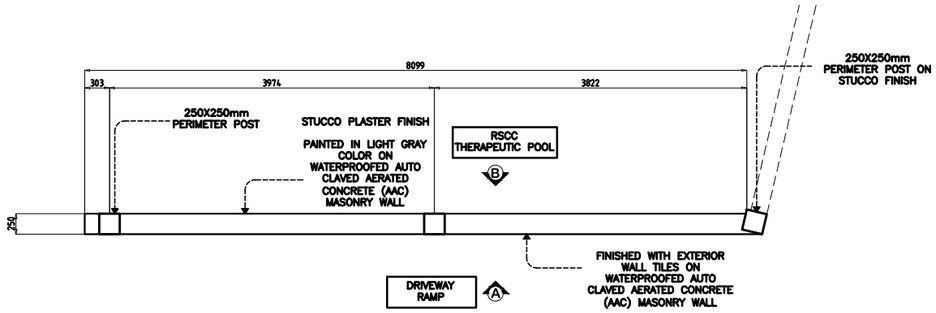


KEY PLAN



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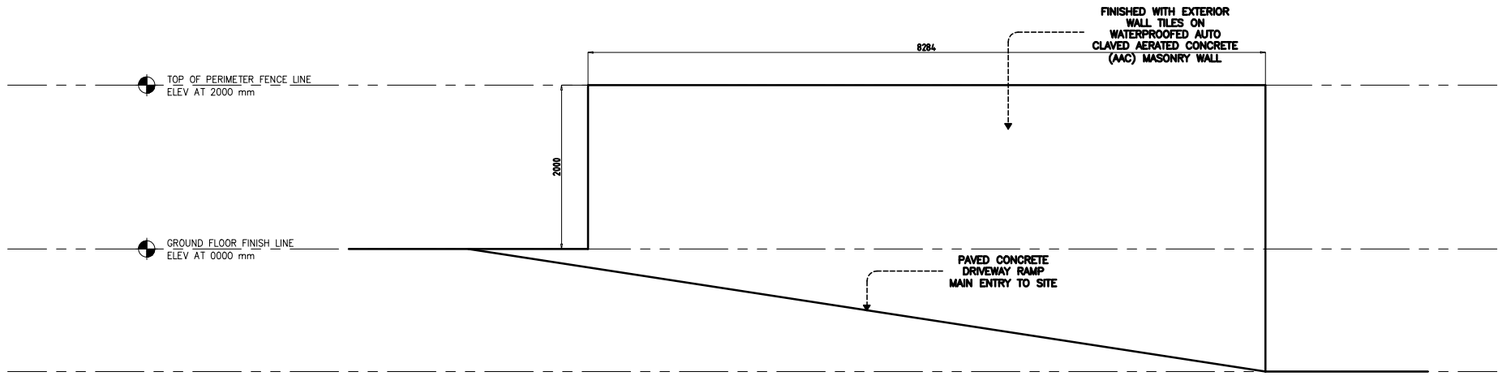
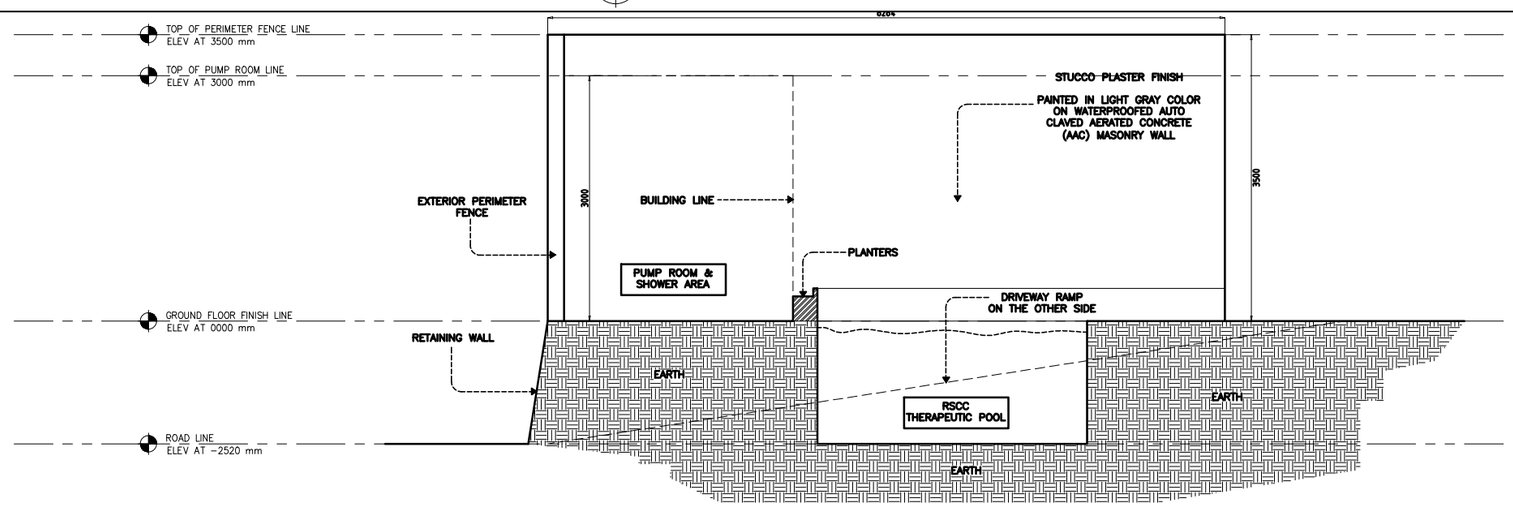
1 / A 06 FENCE 2 - PLAN

SCALE 1:75 METERS



2 / A 06 FENCE 2 - ELEVATION A (THRU DRIVEWAY)

SCALE 1:75 METERS



3 / A 06 FENCE 2 - ELEVATION B (THRU THERAPEUTIC POOL)

SCALE 1:75 METERS

ARCHITECTURAL DOCUMENTS
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ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
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SHEET CONTENT :

CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

FENCE 2 DETAILS

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Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

AR. JIMMY M. MAYORES
Architect II, AD - BGMS

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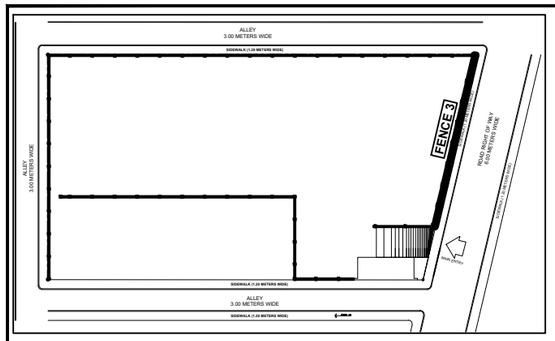

KEY PLAN

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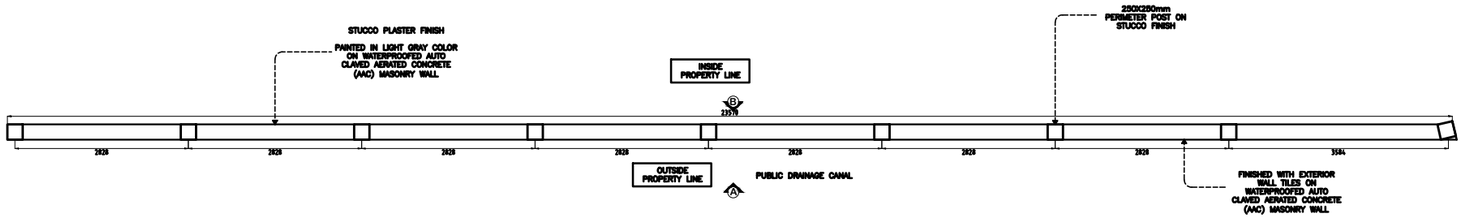
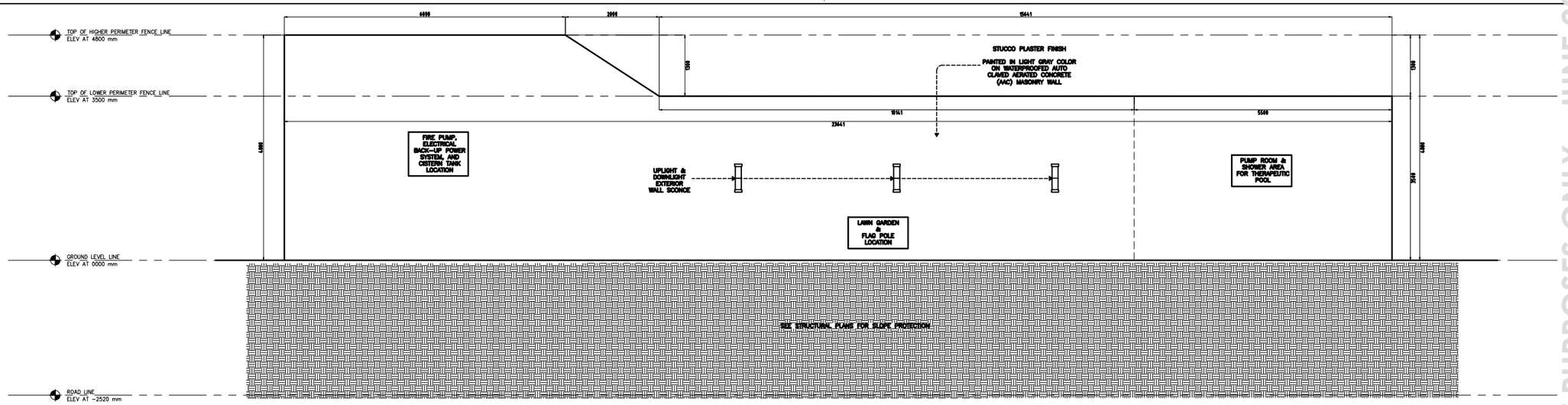


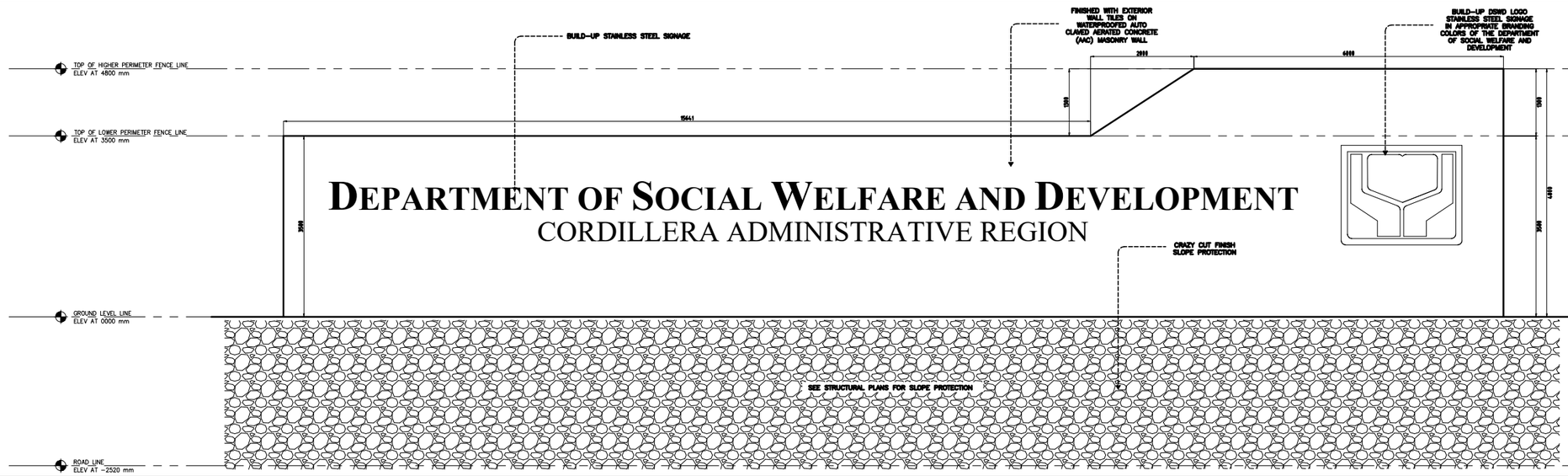
1 / A 07 FENCE 3 - PLAN

SCALE 1:100 METERS



2 / A 07 FENCE 3 - ELEVATION A (INTERIOR)

SCALE 1:100 METERS



3 / A 07 FENCE 3 - ELEVATION B (THRU ROAD RIGHT OF WAY)

SCALE 1:100 METERS

DEPARTMENT OF SOCIAL WELFARE AND DEVELOPMENT
CORDILLERA ADMINISTRATIVE REGION

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

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LOCATION :
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SHEET CONTENT :
CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

FENCE 3 DETAILS

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Director III, Assistant Regional Director for Administration

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Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
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Architect II, AD - BGMS

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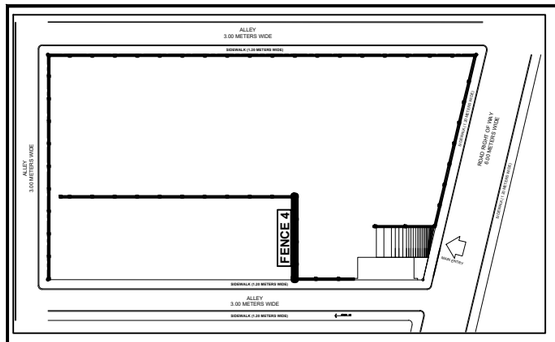

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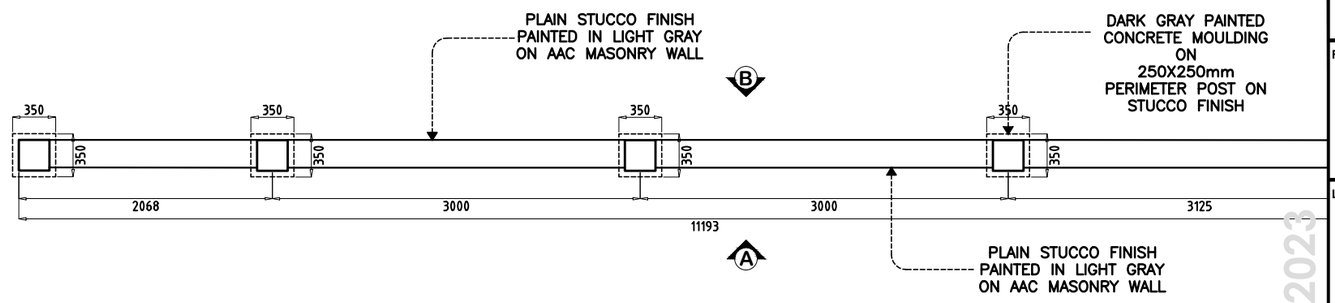
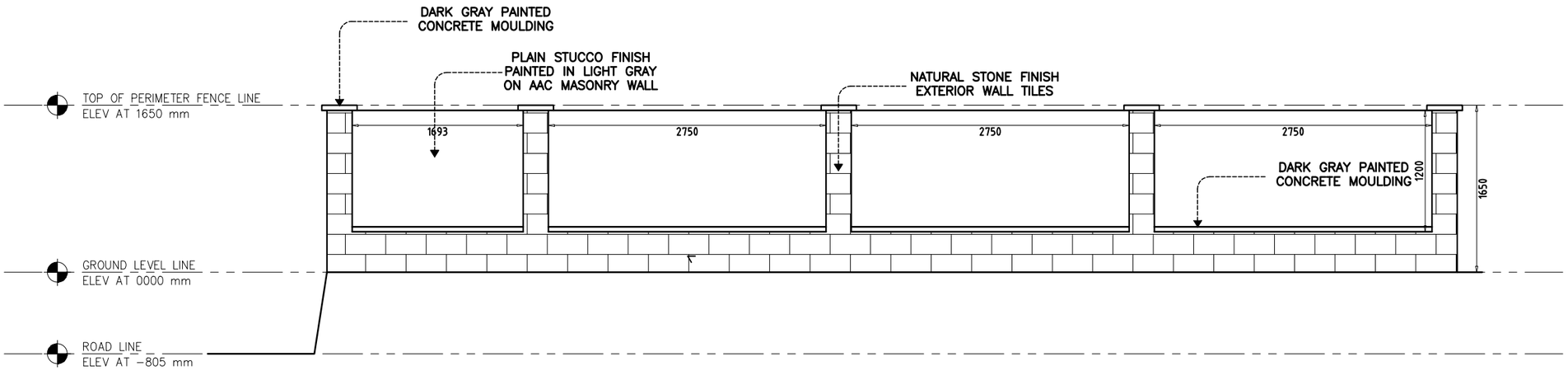


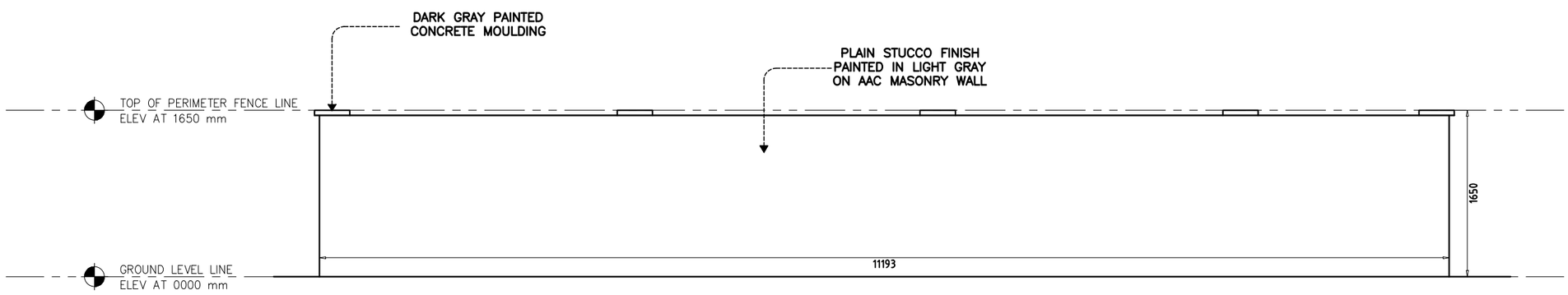
1 / A 08 **FENCE 4 - PLAN**

SCALE 1:50 METERS



2 / A 08 **FENCE 4 - ELEVATION A**

SCALE 1:50 METERS



3 / A 08 **FENCE 4 - ELEVATION B**

SCALE 1:50 METERS

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ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
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FENCE 4 DETAILS

APPROVED BY

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CONFORMED BY

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Director III, Assistant Regional Director for Administration

CHECKED BY

RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

AR. JIMMY M. MAYORES
Architect II, AD - BGMS

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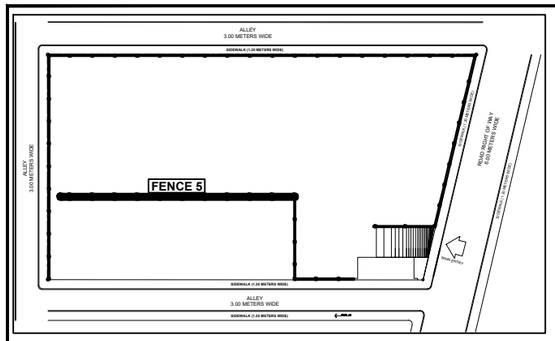
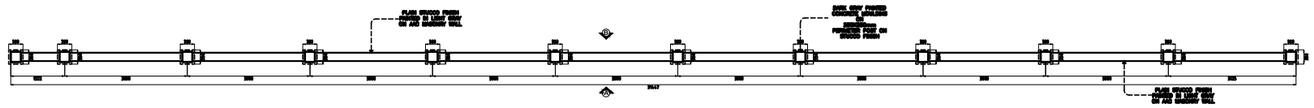


KEY PLAN



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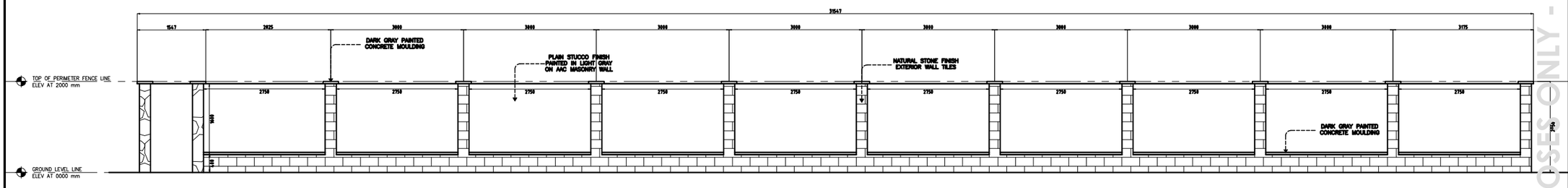
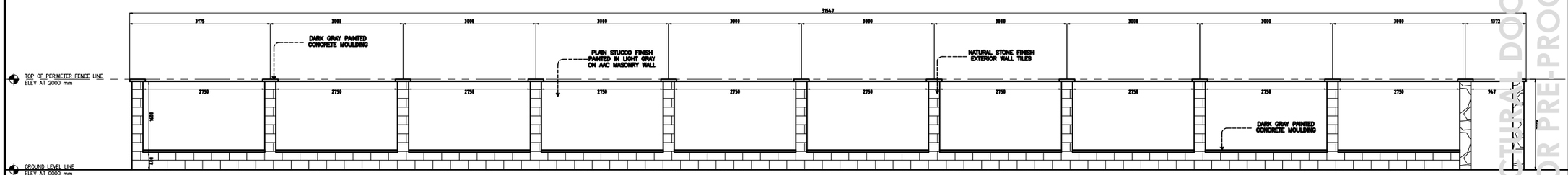
1 / A 09 **FENCE 5 - PLAN**

SCALE 1:150 METERS



2 / A 09 **FENCE 5 - ELEVATION A**

SCALE 1:150 METERS



3 / A 09 **FENCE 5 - ELEVATION B**

SCALE 1:150 METERS

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DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :

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LOCATION :

DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :

CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

FENCE 5 DETAILS

APPROVED BY

LEO L. QUINTILLA
Regional Director

CONFORMED BY

ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY

RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

AR. JIMMY M. MAYORES
Architect II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

DRAWING STATUS

DATE	DESCRIPTION/REMARKS	BY

PLAN CATEGORY	SHEET NUMBER	PAPER SIZE
A	09/13	A3

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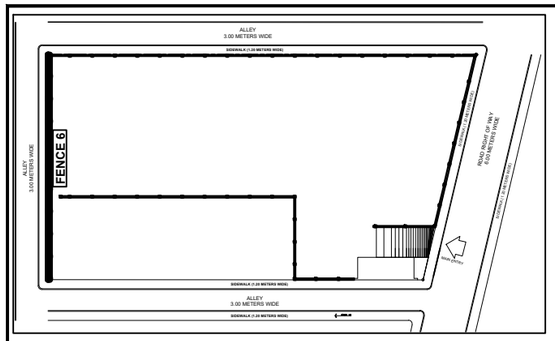
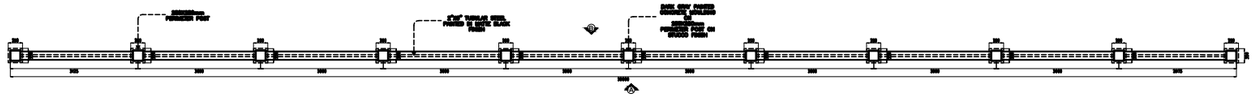


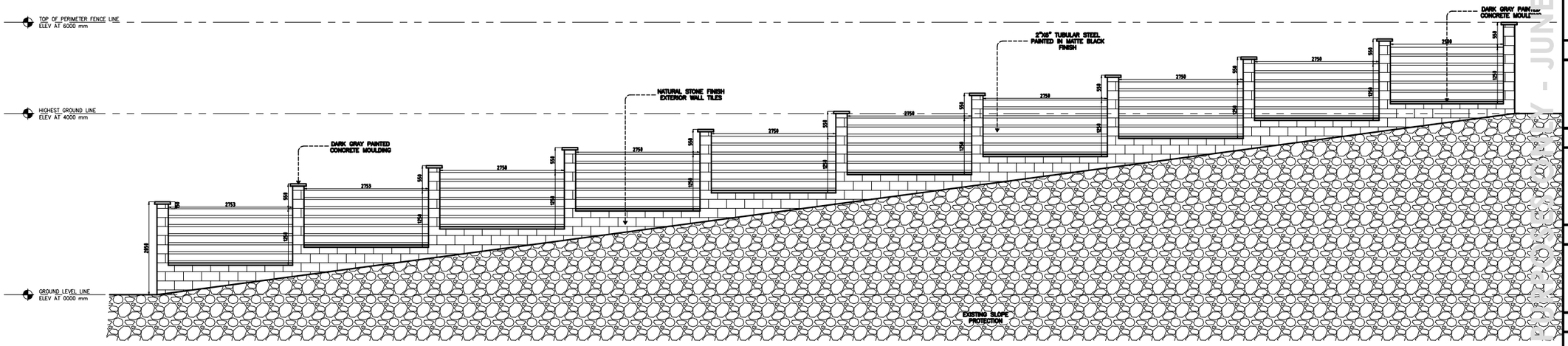
KEY PLAN

NOTE: ALL DIMENSIONS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. DO NOT SCALE THIS DRAWING.



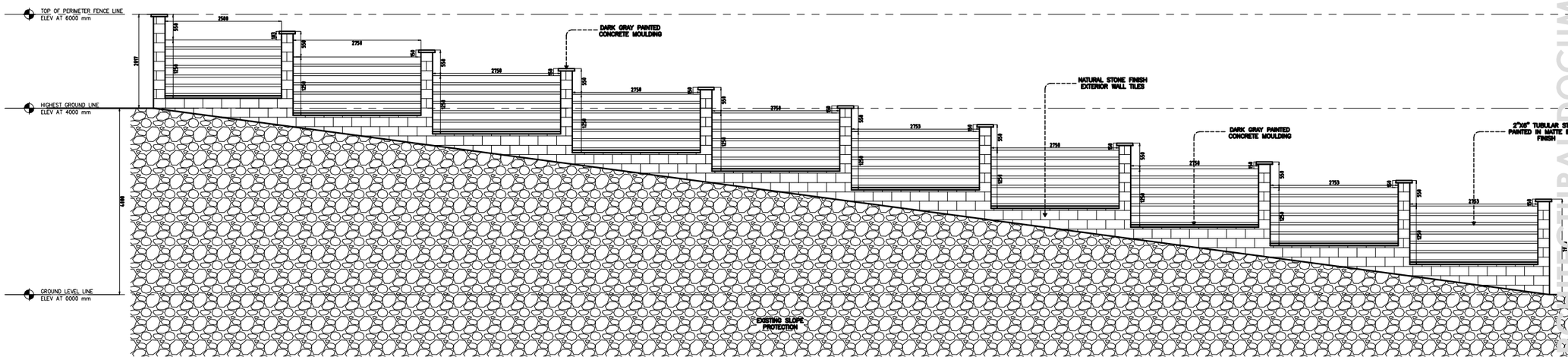
1 / A 10 FENCE 6 - PLAN

SCALE 1:150 METERS



2 / A 10 FENCE 6 - ELEVATION A

SCALE 1:100 METERS



3 / A 10 FENCE 6 - ELEVATION B

SCALE 1:100 METERS

ISSUED FOR PRE-PROCUREMENT ARCHITECTURAL DOCUMENTS
JUNE 29, 2023

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :

"UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES"

LOCATION :

DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :

CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

FENCE 6 DETAILS

APPROVED BY

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AR. JIMMY M. MAYORES
Architect II, AD - BGMS

PROJECT/TA No:
CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

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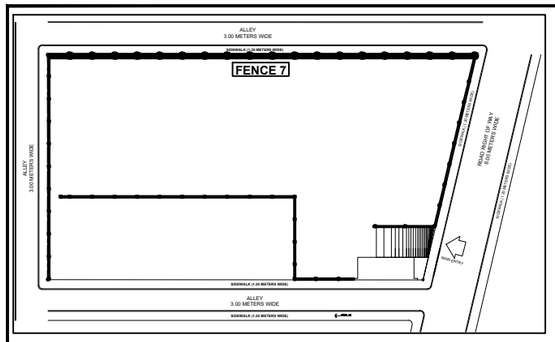

KEY PLAN

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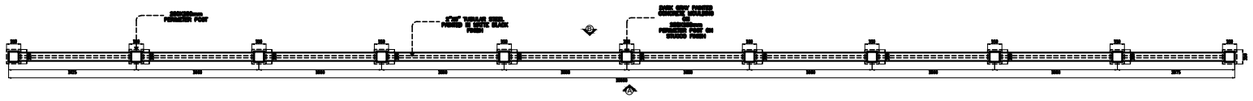
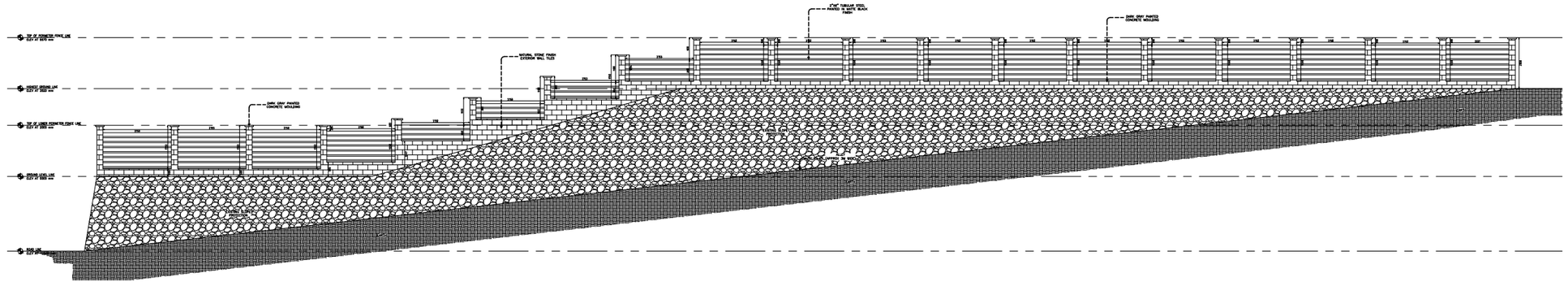


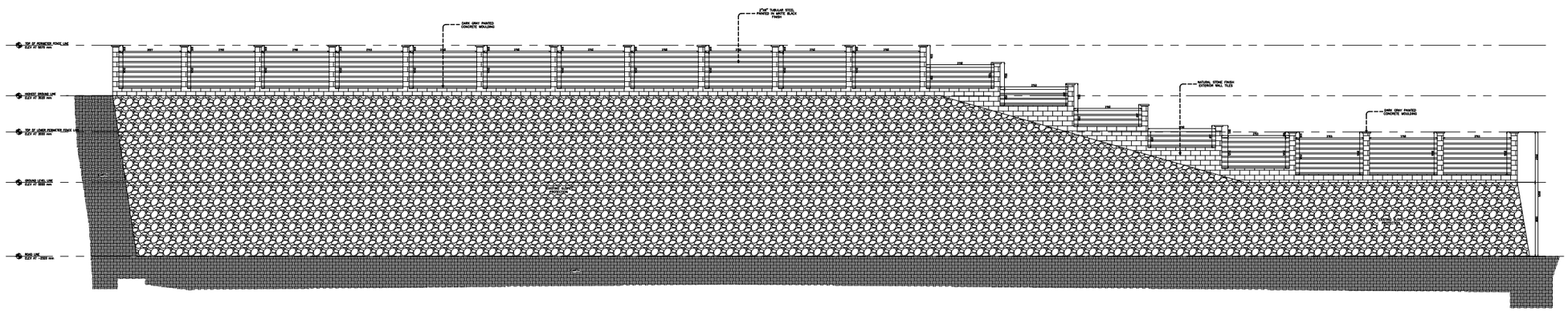
1 / A 11 — **FENCE 7 - PLAN**

SCALE 1:150 METERS



2 / A 11 — **FENCE 7 - ELEVATION A**

SCALE 1:200 METERS



3 / A 11 — **FENCE 7 - ELEVATION B**

SCALE 1:200 METERS

ARCHITECTURAL DOCUMENTS ISSUED FOR PRE-PROCUREMENT PURPOSES ONLY - JUNE 29, 2023

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :

"UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES"

LOCATION :

DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :

CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

FENCE 7 DETAILS

APPROVED BY

LEO L. QUINTILLA
Regional Director

CONFORMED BY

ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY

RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

AR. JIMMY M. MAYORES
Architect II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

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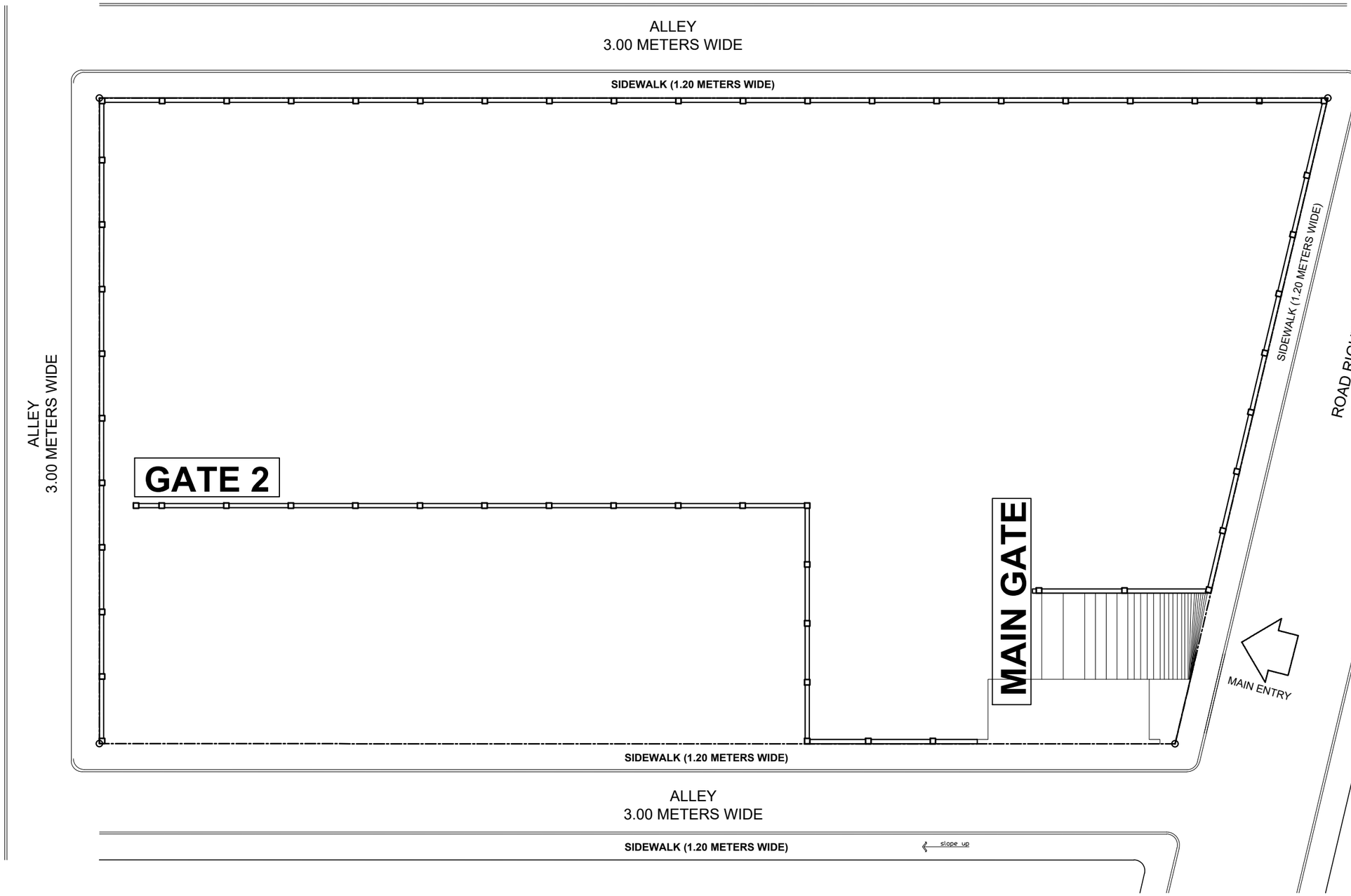

GATE LOCATION DEMARCATION PLAN

1 / A12 SCALE NOT TO SCALE

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :

"UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES"

LOCATION :

DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :

CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY

GATE DEMARCATION LAYOUT

APPROVED BY

LEO L. QUINTILLA
Regional Director

CONFORMED BY

ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY

RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY

AR. JIMMY M. MAYORES
Architect II, AD - BGMS

PROJECT/TA No: CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

DRAWING STATUS

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PLAN CATEGORY	SHEET NUMBER	PAPER SIZE
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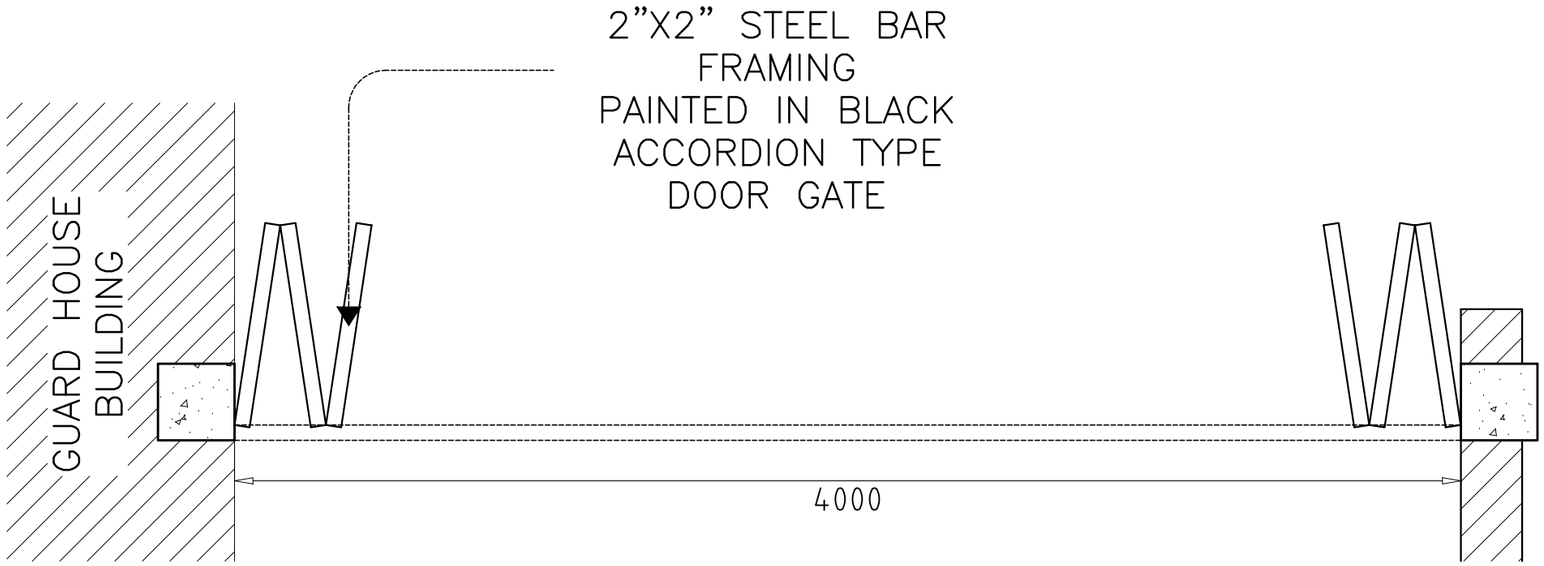
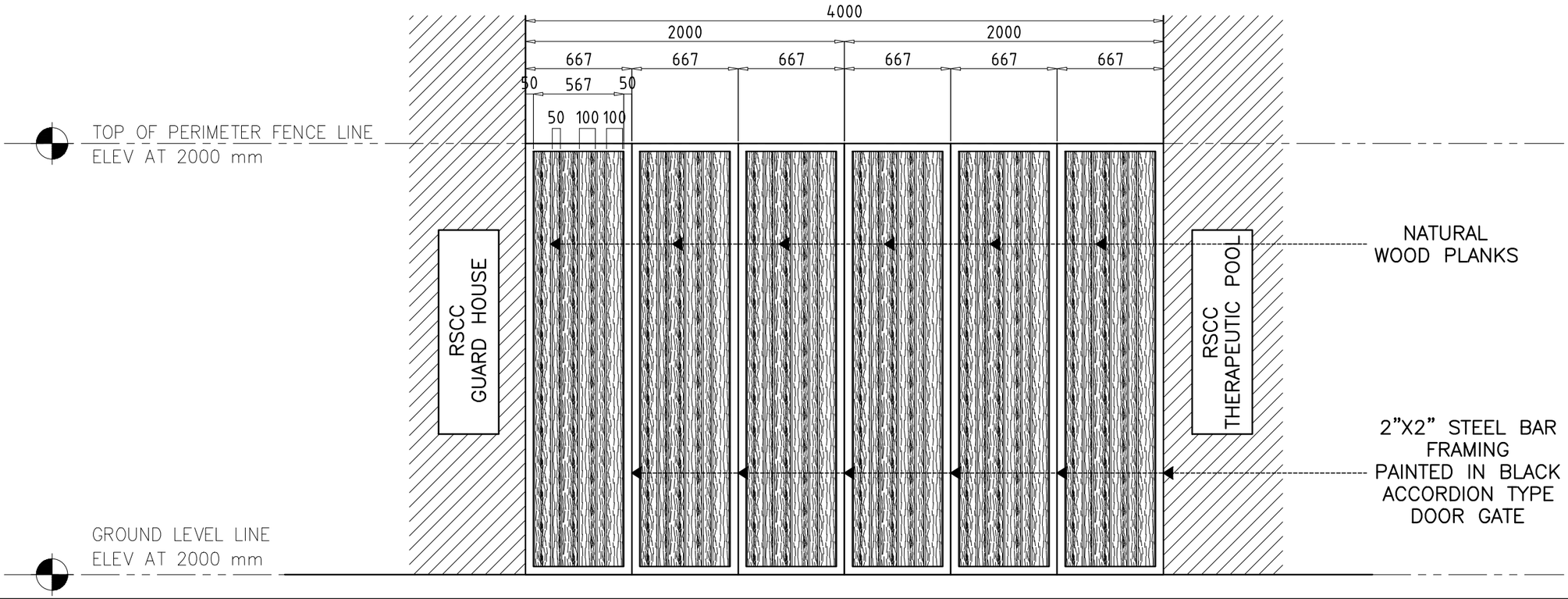


1 / A13 **MAIN GATE - PLAN**

SCALE 1:20 METERS



2 / A13 **MAIN GATE - ELEVATION**

SCALE 1:30 METERS

ARCHITECTURAL DOCUMENTS ISSUED FOR PRE-PROCUREMENT PURPOSES ONLY - JUNE 29, 2023

DSWD

ADMINISTRATIVE DIVISION
FIELD OFFICE CAR
DSWD-AS-GF-057 | REV 02 | 07 OCT 2022

PROJECT NAME :
"UPGRADING AND IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES"

LOCATION :
DSWD-CAR RECEPTION AND STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET 2601

SHEET CONTENT :
CONSTRUCTION OF PERIMETER FENCE ALONG RSCC BUILDING AND ISOLATION FACILITY
MAIN GATE DETAILS

APPROVED BY
LEO L. QUINTILLA
Regional Director

CONFORMED BY
ENRIQUE H. GASCON, Jr.
Director III, Assistant Regional Director for Administration

CHECKED BY
RONILO R. FLORES
Administrative Officer V, OIC-Chief Administrative Division

PREPARED/DESIGNED BY
AR. JIMMY M. MAYORES
Architect II, AD - BGMS

PROJECT/TA No:
CAR-FO-AD-BGMS-A-PR-23-06-19971-S

DATE SUBMITTED: 28 JUNE 2023

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GENERAL SPECIFICATIONS

"UPGRADING & IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES"

PROJECT TITLE

DSWD-CAR, RECEPTION & STUDY CENTER FOR CHILDREN, WANGAL, LA TRINIDAD, BENGUET

PROJECT LOCATION

Written and Prepared by:

ARCH. JIMMY M. MAYORES, UAP
ARCHITECT II, AD/BGMS
PRC REG. NO.: **0049778**

ENGR. COLLIN JONES C. TUNGOL, CE
ENGINEER II, AD/BGMS
PRC REG. NO.:

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GENERAL SPECIFICATIONS

DIVISION 1 - “GENERAL PARAGRAPHS”

28 JUNE 2023

ARJMM/ENGRCJCT/REV. 00

Revision	Date	Description

DIVISION 1 - GENERAL PARAGRAPHS

PART 1. GENERAL

1.1. DESCRIPTION

1.1.1. The work specified herein is the "**UPGRADING & IMPROVEMENT OF LAND DEVELOPMENT OF RSCC PREMISES",** located at **DSWD-CAR, Reception and Study Center, Wangal, La Trinidad, Benguet.**

1.2. PROJECT INFORMATION

1.2.1. The work shall confirm the following contract drawings, details and maps, all of which form part of these specifications.

1.2.2. Omissions from the drawings or specifications or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customary performed, shall not relieve the Contractor from performing as if fully and correctly set forth and described in the drawings and specifications.

1.2.3. The Contractor shall check all drawings and furnish it immediately upon receipt and shall promptly notify the Project Engineer/Architect of any discrepancies. Figures marked on drawings shall be followed in preference to scale measurements. Large scale drawings shall govern small scale drawings. The contractor shall compare all drawings and verify the figures before laying out the work and will be responsible for any errors which might have been avoided thereby.

1.2.4. All drawings issued for construction to General Contractor/s, Sub-contractor shall be furnished solely by the Buildings and Grounds Management Section.

1.2.5. Physical Data: The physical conditions indicated on the drawings and in the specifications are the results of site investigations by survey and soil investigations conducted. However, it is expressly understood that the Architect/Designer will not be responsible for any interpretations or conclusions drawn therefrom.

1.3. EXISTING WORK

1.3.1. The disassembling, disconnecting, cutting, removal, or altering of existing work in any way shall be carried on in such a manner as to prevent damage on all portions of existing work, whether they are to remain in place, reused in the new work, or salvaged and stored.

1.3.2. All portions of existing work which have been cut, damaged or altered in any way during construction operations shall be repaired or replaced with a kind which matches the existing or adjoining work. All work of this nature shall, at the completion of all operations, be left in a condition which is as good as what existed before the new work started.

PART 2 SUBMITTALS

2.1. PROPOSED MATERIAL SUBMITTALS, CATALOGUE DATA AND SAMPLES

2.1.1. Proposed material submittals required of the Contractor shall be submitted with ample time period prior to the execution of related scope of work to allow sufficient time for processing, review, approval and procurement before the Contractor is ready to use the material. **No material shall be used prior to the approval of the Building and Grounds Management Section (BGMS).**

2.1.2. The Contractor shall furnish the name and address of the manufacturer of each item of material and equipment. Each submittal shall be accompanied by a cover letter signed by the Contractor.

2.1.3. The Contractor shall furnish two (2) copies for approval, giving full information, such as identifying description, catalogue numbers, catalogue cuts, and data sheets as may be required for all material and equipment designated in the technical sections of this specification. Clearly mark each item proposed to be the item number of the contract and identify in the submittals, with cross references to the item number of the Contract drawings and specifications so as to clearly identify the use for which it is intended. Data submitted in a bound volume in the same numerical sequence as specification section paragraphs.

2.1.4. The Contractor shall certify on all submittals that the material being proposed conforms to the contract requirements. In the event of any variance, the Contractor shall state specifically which portions vary, and request approval of a substitute. Incomplete submittals and submittals with inadequate data will be rejected.

2.2. SHOP DRAWINGS

2.2.1. Before starting the fabrication or installation of any of this work, the Contractor shall submit drawings as may be required and designated in the technical sections of this specification.

2.2.2. In addition to the drawings designated in the technical sections, the Contractor shall submit drawings as may be required and designated in the technical sections of this specification.

2.2.3. The Contractor shall prepare at his own expense and submit with such promptness as to cause no delay in his work or in that of any other Contractor doing work on the same building, two (2) blueprint copies in 30” x 20” or A1/A3 size of all shop drawings, as well as schedules, required corrections, including all necessary corrections to artistic effect. The Contractor shall make any corrections required by the Architect, file with him two (2) corrected copies and furnish such other copies as may be needed.

2.2.4. Shop drawings are to be submitted with ample time period prior to the execution of related scope of work to allow sufficient time for processing, review and approval.

2.3. The Contractor shall not be relieved of responsibility for any deviation from the requirement of the Contract Documents by the Architect’s approval of Shop Drawings, Product Data or samples unless the Contractor has specifically informed the Architect in writing such deviation at the time of submission and the Architect has given written approval to the specific deviation.

2.4. The Contractor shall not be relieved from the responsibility for errors or omissions in the Shop Drawings, Product Data or samples by the Architect’s approval thereof.

2.5. No portion of work requiring submission of Shop Drawings, Product Data or sample shall be commenced until the submittal has been approved by the Architect. All such portions of the work shall be in accordance with approved submittals.

2.6. MOCK-UP:

2.6.1. *GENERAL*: As soon as practicable, provide a complete installation of mock-up test panels as required by the Contract Documents, Modifications deemed necessary shall be made in mock-up for evaluation, and re-tested until specified results are obtained.

2.6.2. Tests shall be conducted at Contractor’s expense; Modifications for the mock-up as required from the result shall be obtained.

2.6.3. Coordinate mock-up test conditions and procedure with the BGMS prior to the test.

2.7. Architect's Review of Material Submittals: The Architect shall review Shop Drawings, Product Data, and Samples with reasonable promptness upon Architect's receipt and will apply Architect's stamp thereto. Notations by the Architect which would increase contract cost or time of completion shall be brought to the Architect's attention before proceeding with the Work. Each submittal will be stamped indicating appropriate action as follows:

2.7.1. **"A" Action**: Means that fabrication, manufacture, or construction may proceed providing that all submittal complies with the Architect's notations and Contract Documents.

2.7.2. **"B" Action**: Means that fabrication, manufacture, or construction may proceed, provided with submittal which complies with the Architect's notations and Contract Documents. If, for any reason, Contractor cannot comply with notations, Contactor shall make revisions and resubmit as described for submittals stamped "C" action.

2.7.3. **"B" Action-resubmit**: Means that fabrication, manufacture, construction may proceed; however, if the submittal did not fully demonstrate the full extent of all conditions, details, or coordination with other surrounding work, and, therefore, requires additional information and rework as noted. These shop drawings shall be submitted for final "A" and "B" action. Specific areas requiring additional information shall not be fabricated, manufactured or constructed prior to resubmission.

2.7.4. **"C" Action**: Means that submittal does not comply with design intent of Contract Documents. Submittals stamped "C" Action are not to be used. Contractor shall make revisions and resubmit.

2.8. IMPLEMENTING AGENCY (DSWD) REQUIREMENTS FOR APPROVAL, TESTING AND COMMISSIONING OF THE FOLLOWING:

2.8.1. For Architectural Systems:

The contractor shall submit all required certifications pertaining to the relevant floor, walls and ceiling systems as part of the conformance of the Buildings and Ground Management Section's requisitions.

2.8.2. For Electrical System:

Conduct Electrical Insulation Resistance Test, balancing of load, current reading during lean & peak loads and voltage reading along with a submission of Certificate of Calibration for kW-Hr meter if required, and all Certificate of Commissioning for all electrical works.

2.8.3. For Plumbing/Sanitary System:

Conduct Water Pressure Testing, 24-hour flood testing of waterproofing prior to floor topping, hydrostatic leak test of piping works with a submission of Certificate of Flood Testing to the area waterproofed and all Certificate of Commissioning for all plumbing works along with a provision of water meter with a Certificate of Calibration from the pertinent local water district or such other water concessionaire.

2.8.4. For Ventilation System:

Ventilation Testing & Commissioning to conduct a light test of ductworks along with submission of Certificate of Commissioning for all ventilation works.

2.8.5. For Fire Sprinkler System

Conduct hydrostatic leak testing at 150psi for two (2) hours. Contractor shall submit Certificate of hydrostatic test for sprinkler pipe and all Certificate of commissioning for the fire sprinkler system.

***** END OF SECTION *****

GENERAL SPECIFICATION

DIVISION 2 - “SITE CONDITIONS”

28 JUNE 2023

ARJMM/ENGRCJCT/REV. 00

Revision	Date	Description

SITE CONDITIONS

PART 1 GENERAL

1.1. RELATED DOCUMENTS

1.1.1. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.2. SUMMARY

1.2.1. This section includes:

1.2.1.1. Site clearing
1.2.1.2. Removal and Disposal of Construction Materials
1.2.1.3. Storage and Filing of materials
1.2.1.4. Site Preparation
1.2.1.5. Earthwork
1.2.1.6. Foundation Works
1.2.1.7. Filing and Backfilling

1.3. SITE CLEARING

1.3.1. Should the existing RSCC Building has structural and utility deficiencies found by the General Contractor, it shall be completely demolished together with all concerned structure involved prior to the approval of the BGMS.

1.4. REMOVAL AND DISPOSAL OF CONSTRUCTION MATERIALS

1.4.1. Legal and proper waste management and disposal shall be observed during and after the construction. All abandoned footings, utilities, etc. that interferes with new construction shall be removed.

1.5. STORAGE AND FILING OF MATERIALS

1.5.1. **Delivery:** General Contractor shall ensure that materials are properly turned over and delivered on site in good quality and condition. A time and delivery record shall be available.

1.5.2. **Storage:** General Contractor shall designate and/or allot a space to sub- contractors for storage of their materials and for erection of their sheds and tool houses (if necessary). Materials shall be arranged properly and warehouse shall be maintained properly by a designated person of the General Contractor.

1.5.3. All cement, lime and other materials affected by moisture shall be stored on platforms and protected from weather. Materials shall be stored to insure the preservation of their quality and fitness for their work. Stored materials shall be located so as to facilitate prompt inspection.

1.5.4. Should it be necessary at any time to move materials, sheds or storage platforms, the Contractor shall do so at his own expense.

1.6. SITE PREPARATION

1.6.1. **Staking Out:** The building shall be staked out with all the lines and grades in accordance to the drawings and shall be established before excavation starts. Basic batter boards and reference work shall be erected at such places where they will not be disturbed during the construction of the foundation.

1.7. EARTHWORK

1.7.1. All earthwork shall be done in accordance with proper and immediate recommendation.

1.7.2. **Excavation and Leveling:** Excavation shall be constructed or protected so that they do not endanger life or property. Existing footings or foundations which may be affected by any excavation shall be underpinned adequately or otherwise protected against settlement and shall be protected against lateral movement. Before commencing the excavation, the person in charge of the excavation shall notify in writing (if needed) the owners of adjoining buildings and should be protected. The Contractor assumes full responsibility to provide necessary temporary support during excavation to protect adjacent properties from any damages.

1.8. FOUNDATION

1.8.1. Foundation is designed for a soil bearing capacity of 3000 psi or 144 MPa (or referred to in its geotechnical report). Confirmation of actual soil bearing capacity shall be done prior to construction of foundation.

1.8.2. Foundation shall rest on natural soil, unless otherwise noted by the civil/structural engineer; no part of the foundation shall rest on fill. The contractor shall notify the civil/structural engineer after footing excavation has been completed and prior to concreting to confirm the design soil bearing capacity. In case, actual soil bearing capacity is found to be less than the recommended, notify the structural engineer for proper revision of footing design.

***** END OF SECTION *****

STRUCTURAL SPECIFICATION

DIVISION 3 - “CONCRETE”

28 JUNE 2023

ENGRCJCT/ REV. 00

Revision	Date	Description

CONCRETE

PART 1 GENERAL

1.1. RELATED DOCUMENTS

1.1.1. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.2. SUMMARY

1.2.1. This section includes:

1.2.1.1. General requirements for all concrete works

1.3. REFERENCES

1.3.1. ACI 315 - Specifications for Structural Concrete for Buildings; American Concrete Institute International.

1.3.2. ACI 318.1R - Guide for Concrete Floor and Slab Construction; American Concrete Institute International.

1.3.3. IBC - International Building Code: Current Editions.

1.3.4. National Building Code of the Philippines

1.3.5. National Structural Code of the Philippines

1.3.6. Local Building Codes and Regulations

1.4. DELIVERY, STORAGE, AND HANDLING

1.4.1. All materials shall be delivered in manufacturer's containers, dry, undamaged and unopened, including instructions. All clearly labelled with the manufacturer's name, product identification, expiration date, etc.

1.4.2. Store materials strictly in accord with manufacturer's printed recommendations.

1.4.3. Cement and aggregates shall be stored in such a manner as to prevent their deterioration or the intrusion of foreign matter. Cement shall be stored immediately upon arrival on the site of the work, in substantial, waterproof bodegas. The floor must be sufficiently elevated to deter dampness. Aggregates shall be stored separately from other foreign materials.

1.4.4. Water to be used for mixing the concrete shall be clean and free from injuries, amount of oil acids, alkaline, salt and other organic materials. Mixers, which have been out of use for more than 30 minutes, shall be thoroughly cleaned before fresh concrete is mixed. Mixers shall be cleaned out before changing to another type of cement.

PART 2 PRODUCTS

2.1. MANUFACTURERS

2.1.1. Portland Cement must be approved by the Civil/Structural Engineer

PART 3 EXECUTION

3.1. EXAMINATION

3.1.1. Embedded materials such as gravel and sand should have been inspected and tested, cleared and graded washed.

3.1.2. Verify that areas of execution are acceptable to receive the work of this section.

3.1.3. Alert the BGMS of any discrepancies, prior to commencing the Work of this section.

3.1.4. Coordinate the Work of this section with applicable trades.

3.2. MIXING OF CONCRETE

3.2.1. All concrete shall be mixed thoroughly and should be deposited as nearly as practicable. Make sure that the concrete is of the required workability at the point and time of placing.

3.2.2. 1.5 cu.m. mixer capacity and not less than 90 seconds for more than 1.5 cu.m. mixer capacity. Interval of placing the concrete shall not be so long allowing the concrete in place to harden partially. The time elapsing between mixing, transporting, placing and compaction altogether of a batch of concrete shall not be longer than the initial setting time of the concrete.

3.2.3. Retempering of concrete will not be permitted.

3.3. PLACING PROCEDURES

3.3.1. The concrete shall be deposited as nearly as possible in its final position. It shall be placed so as to avoid segregation of the concrete and displacement of the reinforcement, other embedded items or formworks. When placing on a nearly horizontal surface, placing shall start at the lower end of the surface to avoid decompaction of concrete.

3.3.2. For pouring of concrete for columns, the Contractor shall use drop chute with a maximum drop height of 1.50 meters or less. For pouring of concrete for slab, the Contractor shall execute the placing direction with backward movement. Concrete slab on fill with 100 mm thick shall be poured on gravel bed and shall be placed with the 10mm diameter Reinforcement Steel Bar (RSB) spaced at 400mm both ways.

3.3.3. Layers shall not be placed so that they form featheredges nor shall they be placed on a previous layer, which has taken its initial set. In order to comply with this requirement, another layer may be started before the initial set of the preceding layer.

3.3.4. Concrete shall not be placed during rain, which is sufficiently heavy or prolonged to wash mortar from coarse aggregate on the exposed faces of fresh concrete. Means shall be provided to remove any water accumulating on the surface of the placed concrete. Concrete shall not be deposited into such accumulations of water.

3.3.5. In dry weather, covers shall be provided for all fresh concrete surfaces, which are not being worked on. Water shall not be added to concrete for any reason.

3.4. CURING OF CONCRETE

3.4.1. Concrete shall be protected during the first stage of hardening from loss of moisture and from the development of temperature differentials within the concrete sufficient to 8 cause cracking. The methods used for curing shall not cause damage of any kind to the concrete.

3.4.2. Curing shall be continued for as long as may be necessary to achieve the above objectives but not less than 7 days until the concrete is covered by successive construction whichever is the shortest period. The curing process shall commence as soon as the concrete is hard enough to resist damage from the process.

3.4.3. Exposed concrete surfaces shall be closely covered with impermeable sheeting, properly secured to prevent its removal by wind and the development of air spaces beneath it. If it is not possible to use impermeable sheeting, the Contractor shall keep the exposed surfaces continuously wet by means of water spray or by covering with a water absorbent material, which shall be kept wet.

3.4.4. The contractor shall provide a suitable form of shading to prevent the direct rays of the sun reaching the concrete surfaces for at least the first four days of the curing period.

3.5. GENERAL REQUIREMENTS FOR ALL CONCRETE

3.5.1. All materials and workmanship shall conform to the latest building code of American Concrete Institute (ACI-318).

3.5.2. All concrete shall develop a minimum compressive strength at the end of twenty-eight (28) days with corresponding maximum size aggregate and slumps as follows:

LOCATION	28DAYS COMPRESSIVE STRENGTH	MAXIMUM SIZE AGGREGATE	MAXIMUM SLUMP
Curbs & Slab on Grade except Foundation	3000 psi (21 mPA)	1 in. (25mm)	4 in (100mm)
Foundation & Retaining Wall	3000 psi (21 mPA)	3/4 in. (19mm)	4 in (100mm)
Beams, Slabs, Columns & Shear walls	3000 psi (21 mPA)	3/4 in. (19mm)	4 in (100mm)

3.5.3. In general, the latest edition of ACI- 315, manual of standard practice detailing reinforced concrete structures shall be adhered to, unless otherwise shown or noted.

3.5.4. Minimum concrete cover to be maintained for reinforcing steel:

Suspended Slabs	3/4 in. (19mm)
Slab on Grade	1 ½ in. (38mm)
Walls Above Grade	1 in. (25mm)
Beam Stirrups and Column Ties	1 ½ in. (38mm)
where concrete is exposed to earth but poured against forms	2 in. (50mm)
where concrete is deposited directly against earth	3 in. (75mm)

3.5.5. All anchor bolts, dowels, and other inserts, shall be properly positioned and secured in placed prior to placing of concrete contractor shall note and provide all miscellaneous curbs, sills, stools, equipment, and mechanical bases that are required by the Architectural, Electrical, and Mechanical drawings.

3.5.6. All concrete shall be kept moist for a minimum of seven (70 consecutive days) immediately after pouring by the use of wet burlap, fog spraying, curing compounds or other approved methods.

***** END OF SECTION *****

ARCHITECTURAL SPECIFICATION

DIVISION 4 - “MASONRY”

28 JUNE 2023

ARJMM/ENGRCJCT/REV. 00

Revision	Date	Description

UNIT MASONRY ASSEMBLY

PART 1 GENERAL

1.2. DEFINITIONS

1.2.1. **Concealed Masonry Surfaces**:

1.2.1.1. Surfaces of foundation walls against which backfill is placed.
1.2.1.2. Surfaces covered by furring and wallboard plaster, stucco, or masonry facings.
1.2.1.3. Surfaces above suspended ceilings.
1.2.1.4. Surfaces within attic spaces, crawl spaces, pipe or duct chases and elevator shafts.

1.2.2. **Exposed Masonry Surfaces**

Masonry surfaces other than those listed above including those to be painted.

1.2.3. **Grout Lift and Grout Pour**

A grout lift is the layer of grout placed in a single continuous operation. A grout pour is the entire height of grout fill placed in one day and is composed of a number of successively placed grout lifts.

1.2.4. **Reinforced Hollow Unit Masonry**

Hollow concrete masonry units reinforced vertically and horizontally with steel bars located within cells or kerfs in the units and with cells containing reinforcing bars filled solidly with grout.

1.2.5. **Additional Definitions**:

1.2.5.1. *Back-Up*: That part of masonry walls which is behind the exterior facing.
1.2.5.2. *Bed Joint*: The horizontal layer of mortar on which a masonry unit is laid.
1.2.5.3. *Head Joint*: The vertical mortar joint between ends of masonry units. Sometimes
1.2.5.4. *Kerf*: A cut or notch made with a saw, or with a cutter, part way through a portion of a unit.
1.2.5.5. *Low Lift Grouting*: The technique of grouting masonry in 0.20 to 1.8 meters lifts as the wall is being laid.
1.2.5.6. *Reinforced Masonry*: Masonry in which reinforcement is embedded in such a manner that the components act together to resist lateral forces.

1.3. PERFORMANCE REQUIREMENTS

1.3.1. Provide unit masonry that develops the following net-area compressive strengths (f'm) at 28 days. Determine compressive strength of masonry by testing masonry prisms according to ASTM C 1314.

1.3.1.1. For Concrete Unit Masonry: f'm = 1500 psi (10.3 MPa)
1.3.1.2. For Load Bearing Concrete Unit Masonry: f'm = 2000 psi (13.8 MPa)

1.3.2. **Samples for Verification**:

For the following:

1.3.2.1. Full-size units for each different masonry unit required, showing the full range of exposed dimensions to be expected in the completed construction.

1.3.2.2. Accessories embedded in the masonry.

1.4. DELIVERY, STORAGE & HANDLING

1.4.1. Handle, store and protect masonry units to avoid chipping, breakage or contact with the soil. Keep steel reinforcing bars free of rust and loose scale. Reject rusted steel reinforcing bars. Deliver cement and lime in unbroken bags, barrels, or other sealed containers. Keep cementitious materials dry. Store and handle cement to prevent the inclusion of foreign materials. Store aggregates in a manner to avoid contamination or segregation. Plainly mark and label containers with the manufacturer's names and brands.

PART 2 PRODUCTS

2.1. Masonry Units

2.1.1. **Masonry unit**: Subject to compliance with requirements and as approved by the Architect.

2.1.2. **Concrete Masonry Units (CHB)**:

2.1.2.1. *Aggregates*: ASTM C33

2.1.2.2. *Linear Drying Shrinkage*: Not to exceed 0.065 percent when tested in accordance with ASTM 426.

2.1.2.3. *Kinds and Shapes*: In addition to the requirements specified, concrete masonry units of the various kinds shall conform to PNS 16, Type II for 150 mm thick (f'm = 7 MPa / 5 MPa) and for 100 mm thick (f'm = 2.5 MPa). Include closer, jamb, lintel and bond beam units and special shapes and sizes to complete the work as indicated.

2.2. Centering Device

2.2.1. Provide centering clips that prevent displacement of reinforcing bars during the course of construction.

2.3. Deformed Reinforcing Bars

ASTM A615, Grade 275 (40,000 psi).

2.4. Materials for Mortar and Grout

2.4.1. **Admixtures**

2.4.1.1. *Admixtures*: May be used in mortar or grout provided that the admixture does not adversely affect bond or compressive strength of mortar or grout.

2.4.1.2. *Prohibited Ingredients*: Do not use air entraining compounds, calcium chloride salts or other chemicals that will adversely affect metals or the coatings of metals embedded in the mortar or grout.

2.4.2. **Aggregate for Mortar**

ASTM C 144, except that not less than 3 percent nor more than 15 percent shall pass the No. 100 sieve. Aggregate used in mortar for joints 6 mm or less shall have 100 percent passing the No. 8 sieve with 10 percent being retained on the No. 16 sieve.

2.4.3. **Aggregate for Grout:**

2.4.3.1. *Fine Aggregate*: ASTM C 404, Size No. 2 or ASTM C 144.

2.4.3.2. *Pea Gravel*: ASTM C 404, except that 100 percent shall pass the 9 mm screen and not more than 5 percent shall pass the No. 8 sieve.

2.4.3.3. *Coarse Aggregate*: ASTM C 404, size No. 8.

2.4.4. **Portland Cement** : ASTM C150, Type I.

2.4.5. **Lime Putty**

Slaked according to the manufacturer's instructions.

2.4.5.1. *Hydrated Lime*: SAO 181.

2.4.5.2. *Pulverized Quicklime*: SAO 181 except 100 percent shall pass the No. 20 sieve and 90 percent shall pass the No. 50 sieve.

2.4.5.3. *Lime Paste*: Lime paste shall be made with pulverized quicklime or hydrated lime. Hydrated lime processed by the steam method shall be allowed to soak not less than 24 hours. Quicklime and other hydrated lime shall be allowed to soak not less than 72 hours. In lieu of hydrated lime paste for use in mortar, the hydrated lime may be added in the dry form.

2.4.6. **Water**: Potable.

2.5. Mortar Mixes

2.5.1. **Proportions:**

2.5.1.1. Type M in accordance with the proportion specifications of ASTM C 270. The mortar shall have a flow, after 11 minutes, of 75 percent or more when tested for water retention in accordance with ASTM C 91 except mortar shall be mixed to an initial flow of 105 to 115 percent.

2.6. Grout Mixtures

2.6.1. **Proportions:**

Mix in laboratory established proportions to in a compressive strength at 28 days of not less than 17.20 MPa (2500 psi) when tested in accordance with ASTM C 91 for fine aggregate and ASTM C 39 for grout containing coarse aggregate. Grout shall be classified as fine and low lift types as specified below.

2.6.2. *Fine Grout*: Portland cement, fine aggregate, and sufficient water to obtain a pouring consistency without segregation of the constituents. Slump shall be approximately 125 mm.

2.6.3. *Low Lift Grout*: Portland cement, lime paste or hydrated lime, fine aggregate and coarse aggregate, and sufficient water to obtain a pouring consistency without segregation of the constituents. Slump between 200 and 250 mm.

2.7. Source Quality Control

2.7.1. Prior to delivery of masonry units to the site, select by random sampling nine individual whole units from the units proposed for use. Select units free from cracks or other structural defects. Test in accordance with PNS 16.

PART 3 EXECUTION

3.1. Preparation

3.1.1. **Examination**

3.1.1.1. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.

3.1.1.1.1. For the record, prepare a written report, endorsed by Installer, listing conditions detrimental to performance.

3.1.1.1.2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.1.1.2. Before installation, examine rough-in and built-in construction to verify actual locations of piping connections.

3.1.2. **Protection**

3.1.2.1. *Forms and Shores*: Where required, construct forms to the shapes, lines, and dimensions of the members indicated. Construct forms sufficiently rigid to prevent deflections which may result in cracking or other damage to supported masonry and sufficiently tight to prevent leakage of mortar and grout. Do not remove supporting forms or shores until the supported masonry has acquired sufficient strength to support its weight and construction loads to which it may be subjected. In no case shall supporting forms or shores be removed in less than 10 days. Wait at least 16 hours after grouting masonry walls after applying uniform loads and wait an additional 48 hours before applying concentrated loads.

3.1.2.2. *Wall Bracing*: Brace walls against wind and other forces during construction. Allow sufficient time between lifts to prevent cracking of face shells of hollow masonry units. If blowouts, misalignment, or cracking of face-shells should occur during construction, tear down and rebuild the wall at no additional cost to the DSWD.

3.1.3. **Surface Preparation**

3.1.3.1. Clean laitance, dust, dirt, oil, organic matter or foreign materials from concrete surface upon which reinforced masonry is to be placed. Use sandblasting, if necessary, to remove laitance from pores and expose to the aggregate.

3.2. Laying Masonry Units

3.2.1. **Wet Masonry Units**

Do not wet concrete masonry units. Do not lay units having a film of water on the surface.

3.2.2. **Embedded Items**

Build in wall plugs, accessories, flashings, pipe sleeves and other items required being built-in as the masonry works progresses. Fill cells receiving anchor bolts and cells of the first course below bearing plates with mortar or grout. Fill spaces around metal door frames and other built-in items with mortar. Point openings around flush-mounted electrical outlet boxes in wet locations, including the flush joint above the box with mortar. Do not embed aluminum items.

3.2.3. **Bond Beams and Lintels**

Install bond units, reinforced as indicated, filled with grout. Install open bottom type bond beam units over cells to be filled. Place wire mesh or small mesh metal lath under open bond beam units if used over cells not to be filled.

3.2.4. **Unfinished Work**

Step back-unfinished work for joining with new work. Do not use toothing without the written approval of the DSWD-BGMS. Remove loose mortar and thoroughly clean the exposed joints before laying new work.

3.2.5. **Placing Units**

Lay hollow masonry units so as to preserve the vertical continuity of cells filled with grout. The minimum clear horizontal dimensions of vertical cores shall be 50 mm by 75 mm. Masonry bond units at corners. Anchor intersections by reinforcing bars as indicated. Adjust each unit to its final position while mortar is still soft and plastic. If any unit is disturbed after mortar has stiffened, remove and relay in fresh mortar. Keep chases, raked out joints, and spaces to be grouted, free from mortar and other debris.

3.2.6. **Bond Pattern**

Lay masonry units in running bond.

3.2.7. **Cutting and Fitting**

Wherever possible, use full units of the proper size in lieu of cut units.

Use power masonry saws for cutting and fitting. Concrete-masonry units shall be wet cut. Make cut edges clean, true and sharp. Make openings carefully so that wall plates, cover plates or escutcheons required by the installation will completely conceal the openings and will be aligned at the bottom with the masonry joints. Cut webs of hollow masonry units to the minimum required for proper installation. Provide reinforced masonry lintels, above openings over 300 mm wide for pipes, ducts and cables trays unless steel sleeves are used.

3.2.8. **Mortar Joints**

Spread bed joints with mortar for the full thickness of the face shells. Where only cells containing reinforcement are to be grouted, spread cross webs around such cell with mortar to prevent leakage of grout. Butter head joints for full thickness of the face shell and place the units. Avoid fins of mortar that protrude into cells to be grouted.

3.2.9. **Jointing**

Tool joints when the mortar is thumbprint hard. Tool horizontal joints first. Brush joints to remove loose and excess mortar. Mortar joints shall be finished as follows:

3.2.9.1. *Flush Joints*: Flush cut joints in concealed masonry surfaces and joints above electrical outlet boxes in wet areas. Make flush cut joints by cutting off the mortar flush with the face of the wall.

3.2.9.2. *Tooled Joints*: Tool joints in exposed exterior and interior masonry surfaces slightly concave. Use a jointer of sufficient length to obtain straight and true mortar joints.

3.2.9.3. *Joint Width*: 9 mm wide.

3.3. Placing Reinforcing Steel

Prior to placing grout, clean, reinforcement of loose, flaky rust, scale, grease, mortar, grout, or other coating which might destroy or reduce its bond with the grout. Details of reinforcement shall be in conformance with ACI 315. Do not bend or straighten reinforcing in a manner injurious to the steel. Do not use bars with kinks or bends not shown on the drawings. Placement of reinforcement shall be inspected and approved prior to placing grout.

3.3.1. **Positioning Bars**: Position vertical bars accurately at the centerline of the wall. Maintain a minimum clearance between the bars and masonry units of 12 mm and between parallel bars of one diameter of the reinforcement. Hold vertical reinforcing in place using metal support, centering clips, spacers, ties or caging devices located near the ends of each bar and at intermediate intervals of not more than 192 diameters of the reinforcement.

3.3.2. **Splices**: Locate splices only as indicated. Stagger splices in adjacent bars at least 600 mm. Lap bars a minimum of 40 diameters of the reinforcement or 600 mm, whichever is greater. Welded or mechanical connections shall develop the full strength of the reinforcement.

3.4. Placing Grout

Use a hand bucket, concrete hopper or grout pump. Place grout in the final position within 1-½ hours after mixing. Where grouting is discontinued for more than one hour, stop the grout 25-mm below the top of a course to form a key at pour points. Place grout to completely fill the grout spaces without segregation of the aggregates.

3.4.1. **Low Lift Grout Method**

Place grout as masonry is erected at a rate that will not cause displacement of the masonry due to hydrostatic pressure of the grout. If mortar has been allowed to set prior to grouting, remove fins protruding more than 12 mm into the grout space. Rod or puddle grout during placement using a long 25-mm by 50-mm wood stick or a mechanical vibrator.

3.5. Tolerance

Lay masonry plumb, true to line, with course level. Keep bond patterns plumb throughout.

3.6. Field Quantity Control

3.6.1. **Grout**

3.6.1.1. DSWD/BGMS will engage a qualified independent testing agency to perform field quality-control testing indicated below.

3.6.1.1.1. Payment for these services will be made by Contractor.

3.6.1.1.2. Retesting of materials failing to meet specified requirements shall be done at contractor's expense.

3.6.1.2. *Testing Frequency*: Tests and Evaluations listed in this Article will be performed during construction for each 5000 sq. ft. (465 sq. m) of wall area or portion thereof. C. Mortar properties will be tested per ASTM C 780.

3.6.1.3. Grout will be sampled and tested for compressive strength per ASTM C 1019. Employ a qualified testing laboratory to proportion and test grout. Do not change laboratory established proportions or use materials with different physical or chemical characteristics in grout for the work unless additional evidence is furnished that the grout meets the specified requirements.

3.6.1.4. *Concrete Masonry Unit Tests*: For each type of concrete masonry unit indicated, units will be tested according to ASTM C 140.

3.6.2. **Repairing, Pointing and Cleaning**

3.6.2.1. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

3.6.2.2. *Pointing*: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application.

3.6.2.3. *In-Progress Cleaning*: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.

3.6.2.4. *Final Cleaning*: After mortar is thoroughly set and cured, clean exposed masonry as follows:

3.6.2.4.1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.

3.6.2.4.2. Test cleaning methods on sample wall panels; leave one-half of the panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.

3.6.2.4.3. Protect adjacent stone and non-masonry surfaces from contact with the cleaner by covering them with liquid strippable masking agent, polyethylene film, or waterproof masking tape.

3.6.2.4.4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing the surfaces thoroughly with clear water.

3.6.2.4.5. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.

3.6.2.4.6. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2 applicable to type of stain on exposed surfaces.

3.6.2.4.7. After mortar joints have attained their initial set but prior to hardening, completely remove mortar and grout daubs or splashing from exposed masonry surfaces. Before completion of the work, make out defects in joints in exposed masonry surfaces filled with mortar and tool to match existing joints. Immediately after grout work is completed remove scum and stains which have percolated through the masonry using a high-pressure steam of water and a stiff fiber bristle brush. Do not use metal tools or metal brushes for cleaning. Dry brush exposed concrete masonry unit surfaces at the end of work each day.

3.6.3. **Masonry Waste Disposal**

3.6.4. *Recycling*: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

3.6.5. *Disposal as Fill Material*: Dispose of clean masonry waste, including broken masonry units, waste mortar, and excess or soil-contaminated sand, by crushing and mixing with fill material as fill is placed.

3.6.6. *Excess Masonry Waste*: Remove excess, clean masonry waste that cannot be used as fill, as described above, and other masonry waste, and legally dispose of the DSWD's property.

***** END OF SECTION *****

ARCHITECTURAL SPECIFICATION

DIVISION 9 - “FINISHES”

Section 5. Paints & Coats

14 JUNE 2023

ARJMM/ REV. 00

Revision	Date	Description

PAINTS AND COATINGS

PART 1 GENERAL

1.1. RELATED DOCUMENTS

1.1.1. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.2. SUMMARY

1.2.1. This Section includes the following:

1.2.1.1. Surface preparation.

1.2.1.2. Field application of paints, stains, varnishes, and other coatings.

1.3. REFERENCES

1.3.1. ASTM D 16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications.

1.3.2. ASTM D 4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials.

1.3.3. ASTM D3960 " Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings".

1.3.4. ASTM D2486-79 " Standard Test Method for Scrub Resistance of Wall Paints".

1.3.5. ASTM E84-01 " Standard Test Method For Surface Burning Characteristics of Building Materials."

1.3.6. ASTM D1653 "Test Methods for Water Vapour Transmission of Organic Coating Films".

1.3.7. PDCA (MAN) - Architectural Specification Manual; Painting and Decorating Contractors of America.

1.3.8. SSPC (PM1) - Steel Structures Painting Manual, Vol. 1, Good Painting Practice; The Society for Protective Coatings.

1.3.9. SSPC (PM2) - Steel Structures Painting Manual, Vol. 2, Systems and Specifications, the Society for Protective Coatings.

1.3.10. National Building Code of the Philippines

1.3.11. Local Rules and Regulation

1.3.12. Philippine Green Building Code

1.4. DEFINITIONS

1.4.1. Conform to ASTM D 16 for interpretation of terms used in this section.

1.5. SUBMITTALS

1.5.1. **Product Data**: Provide data on all finishing products.

1.5.2. **Samples for Selection**: Submit two paper chip samples, 300 x 300 mm in size illustrating range of colors and textures available for each surface finishing product scheduled.

1.5.3. **Samples for Review**: Submit two painted samples, illustrating selected colors and textures for each color and system selected with specified coats cascaded. Submit on actual receiving substrate, 600 x 600 mm in size.

1.5.4. **Manufacturer's Instructions**: Indicate special surface preparation procedures, substrate conditions requiring special attention, and recommended area coverage for specified product.

1.5.5. At project completion, provide an itemized list complete with manufacturer, paint type and color-coding for all colors used for DSWD/BGMS's later use in maintenance.

1.5.6. **Maintenance Data**: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.

1.6. REGULATORY REQUIREMENTS

1.6.1. Conform to applicable codes, including local rules and regulations, for flame and smoke rating requirements for products and finishes, subject to acceptance by the Local Fire Department.

1.7. MOCK-UP

1.7.1. Provide panel, 2440 mm long by 1220 wide, illustrating special coating color, texture, and finish.

1.7.2. Provide door and frame assembly illustrating paint, stain and varnish coating color, texture, and finish.

1.7.3. For the sky ceiling, 3000 (H) x 3000(W) x 5000 projection covering different eventual substrates.

1.7.4. Locate where directed

1.7.5. Mock-up may or may not remain as part of the Work

1.8. DELIVERY, STORAGE, AND PROTECTION

1.8.1. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

1.8.2. **Container Label:** Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

1.8.3. **Paint Materials**: Store at minimum ambient temperature of 7 degrees C and a maximum of 32 degrees C, in ventilated area, and as required by manufacturer's instructions.

1.9. ENVIRONMENTAL REQUIREMENTS

1.9.1. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

1.9.2. Do not apply exterior coatings during rain, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

1.9.3. Apply paint only on dry, clean, properly cured and adequately prepared surfaces in areas where dust is no longer generated by construction activities such that airborne particles will not affect the quality of the finished surface.

1.9.4. Minimum Application Temperatures for Latex Paints: 7 degrees C for interiors; 10 degrees C for exterior; unless required otherwise by manufacturer's instructions.

1.9.5. Minimum Application Temperature for Varnish Finishes: 18 degrees C for interior or exterior, unless required otherwise by manufacturer's instructions.

1.9.6. Provide lighting level of 860 lx measured mid-height at substrate surface.

1.10. EXTRA MATERIALS

1.10.1. Supply 3 L of each color; store where directed.

1.10.2. Label each container with color in addition to the manufacturer's label.

PART 2 PRODUCTS

2.1. MANUFACTURERS

2.1.1. As specified and subject to Compliance with Local Regulation, Fire Code and Green Building Code

2.1.2. Subject to compliance with requirements and as approved by the Architect. For compliance with requirements, acceptable manufacturers are needed to be pre approved by the architect.

2.2. PAINTS AND COATINGS – PERFORMANCE

Paint materials including primers, colourants, pigments, tints, and bases shall be free (absolute zero % content, except for trace amounts) of lead, cadmium, hexavalent chromium, or mercury. Formulate paint materials, at the factory, with anti-mildew agents so that colours are not affected; incorporated into the formulation. In addition, include carefully balanced ultraviolet inhibitors for exterior material.

2.3. PAINTS AND COATINGS – GENERAL

2.3.1. Paints and Coatings: Ready mixed, except field-catalyzed coatings. Prepare pigments:

2.3.1.1. To a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.

2.3.1.2. For good flow and brushing properties.

2.3.1.3. Capable of drying or curing free of streaks or sags.

2.4. PAINT SYSTEMS – EXTERIOR

2.4.1. **Wood, Opaque, Alkyd, 3 Coat:**

2.4.1.1. One coat of alkyd primer sealer.

2.4.1.2. Gloss: Two coats of alkyd enamel.

2.4.2. **Wood, Transparent, Stain:**

2.4.2.1. Two coats of stain.

2.4.3. **Concrete/Masonry/Cement Plaster, Opaque, Alkyd modified, vinyl-acrylic latex, 3 coat:**

2.4.3.1. One coat of water repellent primer sealer.

2.4.3.2. Flat: Two coats of alkyd modified, vinyl-acrylic latex enamel.

2.4.4. **Gypsum Board and Plaster, Opaque, Latex, 3 Coat:**

2.4.4.1. One coat of latex primer sealer.

2.4.4.2. Flat: Two coats of latex.

2.4.5. **Ferrous Metals, Unprimed, Latex, 3 Coat:**

2.4.5.1. One coat of latex primer.

2.4.5.2. Semi-gloss: Two coats of vinyl-acrylic latex enamel.

2.4.6. **Ferrous Metals, Primed, Latex, 2 Coat:**

2.4.6.1. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.

2.4.6.2. Semi-gloss: Two coats of vinyl-acrylic latex enamel.

2.4.7. **Galvanized Metals, Latex, 3 Coat:**

2.4.7.1. One coat galvanized primer.

2.4.7.2. Semi-gloss: Two coats of vinyl-acrylic latex enamel.

2.4.8. **Paint MaE-OP-3A - Aluminum, Unprimed, Alkyd, 3 Coat:**

2.4.8.1. One coat etching primer.

2.4.8.2. Semi-gloss: Two coats of alkyd enamel.

2.4.9. **Pavement Marking Paint:**

2.4.9.1. Two coats of chlorinated rubber base traffic lane paint; yellow or white as indicated on drawings.

2.5. PAINT SYSTEMS – INTERIOR

2.5.1. **Wood**, as indicated in Interior Design Documents.

2.5.2. **Wood, Opaque, Latex, 3 Coat:**

2.5.2.1. One coat of latex primer sealer.

2.5.2.2. Semi-gloss: Two coats of latex enamel.

2.5.3. **Wood - Cabinet Interior, Opaque, Latex, 2 Coat:**

2.5.3.1. One coat of latex primer sealer.

2.5.3.2. Semi-gloss: One coat of vinyl-acrylic latex enamel.

2.5.4. **Wood, Transparent, Stain:**

2.5.4.1. Filler coat (for open grained wood only).

2.5.4.2. Two coats of stain; polyurethane, non-yellowing.

2.5.4.3. One coat sealer.

2.5.4.4. Gloss: One coat of polyurethane, non-yellowing.

2.5.4.5. Satin: One coat of; polyurethane, non-yellowing

2.5.5. **Concrete/Masonry, Opaque, Latex, 2 Coat:**

2.5.5.1. One coat of block filler.

2.5.5.2. Flat: One coat of vinyl-acrylic latex enamel.

2.5.6. **Corrugated Metal**: Special finish as indicated in Design Documents.

2.5.7. **Ferrous Metals, Unprimed, Alkyd / Latex, 3 Coat:**

2.5.7.1. One coat of alkyd primer.

2.5.7.2. Semi-gloss: Two coats of vinyl-acrylic latex enamel.

2.5.8. **Ferrous Metals, Primed, Latex, 2 Coat:**

2.5.8.1. Touch-up with alkyd primer.

2.5.8.2.Semi-gloss: Two coats of vinyl-acrylic latex enamel.

2.5.9. **Galvanized Metals, Latex, 3 Coat:**

2.5.9.1. One coat galvanized primer.

2.5.9.2. Semi-gloss: Two coats of vinyl-acrylic latex enamel.

2.5.10. **Aluminum, Unprimed, Alkyd, 3 Coat:**

2.5.10.1. One coat etching primer.

2.5.10.2. Semi-gloss: Two coats of alkyd enamel.

2.6. ACCESSORY MATERIALS

2.6.1. **Accessory Materials**: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified; commercial quality.

PART 3 EXECUTION

3.1. EXAMINATION

3.1.1. Verify that surfaces are ready to receive Work as instructed by the product manufacturer.

3.1.2. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

3.1.3. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:

3.1.3.1. Plaster and Gypsum Wallboard: 12 percent.

3.1.3.2. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.

3.1.3.3. Interior Wood: 15 percent, measured in accordance with ASTM D 4442.

3.1.3.4. Exterior Wood: 15 percent, measured in accordance with ASTM D 4442.

3.1.3.5. Concrete Floors: 8 percent.

3.1.3.6. Alert the Architect of any discrepancies, prior to commencing the Work of this section.

3.1.3.7. Coordinate the Work of this section with applicable trades.

3.2. PREPARATION

3.2.1. **Surface Appurtenances**: Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.

3.2.2. **Surfaces**: Correct defects and clean surfaces which affect work of this section. No painting work shall commence until all such adverse conditions or defects have been corrected to acceptable level.

3.2.3. **Marks**: Seal with shellac those which may bleed through surface finishes.

3.2.4. **Impervious Surfaces**: Remove mildew by scrubbing with solution of tetra- sodium phosphate and bleach. Rinse with clean water and allow the surface to dry.

3.2.5. **Concrete and Unit Masonry Surfaces to be Painted**: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of trisodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.

3.2.6. **Gypsum Board Surfaces to be Painted**: Fill minor defects with filler compound. Spot prime defects after repair.

3.2.7. **Plaster Surfaces to be Painted**: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.

3.2.8. **Asphalt, Creosote, or Bituminous Surfaces to be Painted**: Remove foreign particles to permit adhesion of finishing materials. Apply latex based sealer or primer.

3.2.9. **Insulated Coverings to be Painted**: Remove dirt, grease, and oil from canvas and cotton.

3.2.10. **Concrete Floors to be Painted**: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry.

3.2.11. **Aluminum Surfaces to be Painted**: Remove surface contamination by steam or high-pressure water. Remove oxidation with acid etch and solvent washing. Apply etching primer immediately following cleaning.

3.2.12. **Galvanized Surfaces to be Painted**: Remove surface contamination and oils and wash with solvent. Apply a coat of etching primer.

3.2.13. **Uncoated Steel and Iron Surfaces to be Painted**: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint the entire surface; spot prime after repairs.

3.2.14. **Shop-Primed Steel Surfaces to be Finish Painted**: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re- prime entire shop-primed item.

3.2.15. **Interior Wood Items to Receive Opaque Finish**: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after the primer has dried; sand between coats. Back prime concealed surfaces before installation.

3.2.16. **Interior Wood Items to Receive Transparent Finish:** Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after the sealer has dried; sand lightly between coats. Prime concealed surfaces with gloss varnish reduced 25 percent with thinner.

3.2.17. **Exterior Wood to Receive Opaque Finish**: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior calking compound after the prime coat has been applied. Back prime concealed surfaces before installation.

3.2.18. **Exterior Wood to Receive Transparent Finish**: Remove dust, grit, and foreign matter; seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes with tinted exterior calking compound after sealer has been applied. Prime concealed surfaces.

3.2.19. **Wood Doors to be Field-Finished**: Seal wood door top and bottom edge surfaces with clear sealer.

3.2.20. **Metal Doors to be Painted**: Prime metal door top and bottom edge surfaces.

3.2.21. Protect all interior surfaces and areas, including glass, aluminum surfaces etc. and equipment and any labels and signage from the painting operations and damage by drop cloths, shield masking, templates, or other suitable protective means and make good any damage caused by failure to provide protection.

3.2.22. Erect boundaries or screens and post signs to warn off or limit or direct traffic away or around the work area as required.

3.3. APPLICATION

3.3.1. Apply products in accordance with manufacturer's instructions.

3.3.2. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

3.3.3. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before the next coat is applied.

3.3.4. Apply each coat to a uniform appearance. Apply each coat of paint slightly darker than the preceding coat unless otherwise approved.

3.3.5. Sand wood surfaces lightly between coats to achieve required finish.

3.3.6. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying the next coat.

3.3.7. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from the surface.

3.4. FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

3.4.1. Refer to MEP specifications of color coding of equipment, duct work, piping, and conduit or as indicated otherwise.

3.4.2. Paint shop-primed equipment, where indicated.

3.4.3. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

3.4.4. Finish equipment, piping, conduit, and exposed ductwork in finished areas in colors according to the color schedule.

3.4.5. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.5. FIELD QUALITY CONTROL

3.5.1. Inspect and test questionable coated areas in accordance with the Architect's instructions.

3.6. CLEANING

3.6.1. Collect waste material which may constitute a fire hazard, place it in closed metal containers, and remove daily from the site.

3.6.2. Remove all paint where spilled, splattered or spray as work progresses using means and materials that are detrimental to the affected surface.

3.7. SCHEDULE - SURFACES TO BE FINISHED

3.7.1. Do Not Paint or Finish the Following Items:

3.7.1.1. Items fully factory-finished unless specifically noted.

3.7.1.2. Fire rating labels, equipment serial number and capacity labels.

3.7.1.3. Stainless steel items.

3.7.2. Paint the surfaces described in PART 2, Paint Systems Articles.

3.7.3. Mechanical and Electrical: Use paint systems defined for the substrates to be finished.

3.7.3.1. Paint all insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, and hangers, brackets, collars and supports occurring in finished areas to match background surfaces, unless otherwise indicated.

3.7.3.2. Paint shop-primed items occurring in finished areas.

3.7.3.3. Paint interior surfaces of air ducts and convector and baseboard heating cabinets that are visible through grilles and louvers with one coat of flat black paint to visible surfaces.

3.7.3.4. Paint dampers exposed behind louvers, grilles, and convector and baseboard cabinets to match face panels.

3.7.4. Paint both sides and edges of plywood backboards for electrical and telephone equipment before installing equipment.

3.7.5. Finish surface as indicated in Design Documents.

***** END OF SECTION *****

ARCHITECTURAL SPECIFICATION

DIVISION 9 - “FINISHES”

Section 6. Stone Finishes

14 JUNE 2023

ARJMM/ REV. 00

Revision	Date	Description

STONE FINISHES

PART 1 GENERAL

1.1. Section includes:

1.1.1. Exterior stone finish system.

1.1.2. Metal framing support system.

1.1.3. Flashing and trim integral stone cladding system.

1.2. REFERENCES

1.2.1. ASTM B 221 - Standard Specification for Aluminum-Alloy Extruded Bars, Rods, Wires, Shapes and Tubes.

1.2.2. ASTM D 897 - Standard Test Method for Tensile Properties of Adhesive Bonds.

1.2.3. ASTM D 1761 - Standard Test Method for Mechanical Fasteners in Wood.

1.2.4. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.2.5. ASTM E 283 - Standard Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors.

1.2.6. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors under the Influence of Wind Loads.

1.2.7. ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.

1.2.8. ASTM E 1996 - Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes

1.3. PERFORMANCE REQUIREMENTS

1.3.1. **Design Requirements**; design exterior stone cladding system to withstand:

1.3.1.1. Positive and negative design wind loads acting normal to the wall plane in accordance with Building Code.

1.3.1.2. Movement caused by an ambient temperature range of 120 degrees F and a surface temperature range of 160 degrees F.

1.3.2. **Performance Requirements**:

1.3.2.1. *Water resistance*: No leakage

1.3.2.2. *Adhesive bond*: Average bond strength of 284 PSI

1.3.2.3. *Fire hazard classification*: Maximum flame spread/smoke developed rating of 10/155

1.4. SUBMITTALS

1.4.1. **Shop Drawings**: Include plans, elevations, and details, size and layout of panels, trim, accessories, supports, and attachments.

1.4.1.1. Show locations, mounting details and details of joints both within honeycomb-backed stone cladding assembly and between stone panel cladding assembly and other construction.

1.4.1.2. Include details of all varying joints, anchorage, corners, direction changes and connection to other materials.

1.4.1.3. Show locations and details of the channel system.

1.4.1.4. Show direction of veining, grain, or other directional pattern.

1.4.1.5. Include large-scale elevations of each building elevation with each panel numbered and dimensioned

1.4.2. **Selection Samples**: For each finished product specified, two complete sets of color chips representing the manufacturer's full range of available colors and patterns.

1.4.3. **Verification Samples**: For each finished product specified, two sets of samples, minimum size 6 inches (152 mm) square, representing actual product, color, and patterns and exhibiting the extreme range of color and other visual characteristics to be expected for the project.

1.5. QUALITY ASSURANCE

1.5.1. **Mock-Up**: Provide a 4 foot high by 8 foot wide mock-up for evaluation of surface preparation techniques and application workmanship.

1.5.1.1. Finish areas designated by the Architect.

1.5.1.2. Do not proceed with remaining work until color and workmanship is approved by the Architect.

1.5.1.3. Refinish mock-up area as required to produce acceptable work.

1.5.1.4. Approved mockup may remain as part of the Work.

1.6. DELIVERY, STORAGE, AND HANDLING

1.6.1. Schedule delivery and installation of stone panel cladding with all parties involved to avoid extended on-site storage and coordinate with work adjacent to stone panel cladding. Ship panels by elevation in a predetermined priority sequence to be determined prior to production.

1.6.2. Store products in manufacturer's properly labeled, unopened packaging until ready for installation.

1.6.3. Store panels off ground; prevent contact with materials that could cause staining or damage.

1.6.4. Store and handle stone and related materials to prevent deterioration or damage due to moisture, temperature changes, contaminates, corrosion, breaking, chipping, and other causes.

1.6.5. Mark stone units, on the surface that will be concealed after installation, with designations used on Shop Drawings to identify individual stone units. Orient markings on vertical panels so that they are right side up when units are installed.

1.6.6. Lay out and arrange panels on the ground in the order of the elevation sequence for inspection of color consistency and panel alignment.

1.6.7. Perform detailed quality control checks on every panel prior to packaging.

1.6.8. Package all panels in custom plywood crates using protective covers on all of the panel edges and fill the gaps between panels with expandable foam for maximum protection.

1.7. PROJECT CONDITIONS

1.7.1. **Field Measurements**: Verify locations of structural members and wall opening dimensions by field measurements before stone wall panel fabrication, as the project schedule permits.

1.7.2. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by the manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9. MAINTENANCE MATERIAL

1.9.1. Furnish extra materials of each product and color installed packaged with protective covering for storage and identified with labels describing contents.

PART 2 PRODUCTS

2.1. EXTERIOR STONE FINISHES

2.1.1. **Stone Finish**: Subject to compliance with requirements and as approved by the Architect. For compliance with requirements, acceptable manufacturers are needed to be pre-approved by the architect.

2.1.2. **Accessories**:

2.1.2.1. *Fasteners*: Concealed type except where unavoidable and suited to application, stainless or corrosion resistant coated steel or any product recommended by the manufacturer.

2.1.2.2. *Joint Sealers*: Type recommended by panel manufacturer.

2.2. FABRICATION

2.2.1. Fabricate manufacturer's standard interlocking channel system. System shall allow for the free and noiseless vertical and horizontal thermal movement due to expansion and contraction. Buckling of panels, opening of joints, undue stress on fasteners, failure of sealants or any other detrimental effects due to thermal movement will not be permitted

2.2.2. Attach channels to the back of panels in the factory.

2.2.3. Where indicated shop fabricate panels return in the factory with hairline joints to appear as monolithic stone.

2.2.4. Apply clear sealer to exposed stone surfaces at the factory.

PART 3 EXECUTION

3.1. EXAMINATION

3.1.1. Examine surfaces to receive stone panels and conditions under which they will be installed for compliance with installation tolerances and other conditions affecting performance of panels.

3.1.2. Do not begin installation until substrates have been properly prepared.

3.1.3. If substrate preparation is the responsibility of another installer, notify the Architect of unsatisfactory preparation before proceeding.

3.2. PREPARATION

3.2.1. Clean surfaces thoroughly prior to installation.

3.2.2. Before setting panels, clean surfaces that are dirty or stained by removing soil, stains and foreign materials. Clean stone by thoroughly scrubbing with fiber brushes and then drenching with

clear water. Use only mild cleaning compounds that contain no caustic or harsh materials or abrasives.

3.2.3. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3. INSTALLATION

3.3.1. Install in accordance with manufacturer's instructions and approved Shop Drawings.

3.3.2. Install interlocking channel system properly aligned for the panel installation.

3.3.3. Set panels aligned, level, and plumb. Shim as required with hard plastic shims up to a maximum of 1/2 inch thick.

3.3.4. Fasten receiving channels to support. Snap panels into receiving channels. Use silicone sealant in the bed of the channel if recommended by the manufacturer.

3.3.5. Seal panel joints with joint sealer.

3.3.6. **Allowable Tolerances**:

3.3.6.1. *Variation from Plumb*: For vertical lines, external comers and surfaces of walls, do not exceed 1/8 inch in 10 feet, 3/16 inch in 20 feet, or 1/4 inch in 40 feet or more.

3.3.6.2. *Variation from Level*: For lintels, sills, water tables, parapets, horizontal bands, horizontal grooves, and other conspicuous lines, do not exceed 1/16 inch in 10 feet, 1/8 inch in 20 feet or 3/16 inch maximum.

3.3.6.3. *Variation of Linear Building Line*: For positions shown in plan and related portions of walls and partitions, do not exceed 1/8 inch in 20 feet or 1/4 inch in 40 feet or more.

3.3.6.4. *Variation in Cross-Sectional Dimensions*: For thickness of walls from dimensions indicated, do not exceed plus or minus 1/8 inch.

3.3.6.5. *Variation in Joint Width*: Do not vary from average joint width more than plus or minus 1/16 inch or a quarter of nominal joint width, whichever is less. For joints within 60 inches of each other, do not vary more than 1/16 inch or a quarter of nominal joint width, whichever is less from one to the other.

3.3.6.6. *Variation in plane between adjacent stone units (lipping)*: Do not exceed 1/16-inch difference between planes of adjacent units.

3.3.7. Separate dissimilar metals and use gasket fasteners where needed to eliminate the possibility of corrosive or electrolytic action between metals.

3.4. ADJUSTING AND CLEANING

3.4.1. Remove and replace broken, chipped, stained, or otherwise damaged stone, defective joints, and honeycomb-backed stone panel cladding that does not match approved samples.

3.4.2. Repair panels with minor damage as acceptable to the Architect.

3.4.3. Clean stone panel cladding as work progresses. Remove excess sealant and smears as sealant is installed.

3.4.4. Clean stone panel cladding no fewer than six days after completion of pointing and sealing. Clean using clean water and stiff-bristle fiber brushes. Do not use wire brushes, acid-type cleaning agents, cleaning agents containing caustic compounds or abrasives, or other materials or methods that could damage stone.

3.5. PROTECTION

3.5.1. Protect installed products until completion of project.

3.5.2. Prevent staining of stone from mortar, grout, sealants, and other sources. Immediately remove such materials from stone without damage to the stonework.

3.5.3. Protect base of walls from rain-splashed mud and mortar splatter by means of coverings spread on ground and over wall surface.

3.5.4. Touch-up, repair or replace damaged products before Substantial Completion.

***** END OF SECTION *****

ARCHITECTURAL SPECIFICATION

DIVISION 10 - “SPECIALTIES”

Section 1. Signages

14 JUNE 2023

ARJMM/ REV. 00

Revision	Date	Description

SIGNAGES

PART 1 GENERAL

1.1. SCOPE

1.1.1. Furnish materials and equipment and perform labor required to complete the installation of exterior/interior signages and digital print/ceramic art on ceramic board, at location indicated on the drawings.

1.2. SUBMITTALS

The following shall be submitted:

1.2.1. **Shop Drawings**

1.2.1.1. Drawings showing elevations of each type of sign, digital print and ceramic art (any applicable) on ceramic board; dimensions, details, and methods of mounting or anchoring; shape and thickness of materials; and details of construction. A schedule showing the location, each sign type, and message as well as digital print and ceramic art on ceramic board shall be included.

1.3. DELIVERY AND STORAGE

1.3.1. Materials shall be wrapped for shipment and storage, delivered to the jobsite in manufacturer's original packaging, and stored in a clean, dry area in accordance with manufacturer's instructions.

1.4. WARRANTY

1.4.1. Manufacturer's standard performance guarantees or warranties that extend beyond a one year period shall be provided.

PART 2 PRODUCTS

2.1. MANUFACTURER

2.1.1. Subject to compliance with requirements and as approved by the Architect. For compliance with requirements, acceptable manufacturers are needed to be pre-approved by the architect.

2.2. SIGNAGE

2.2.1.Refer to the plans for the details and requirements.

PART 3 EXECUTION

3.1. INSTALLATION FOR SIGNAGES

3.1.1. Installations shall be in accordance with the manufacturers guide. It should be free from exposed and unnecessary cuts, holes or blank plates, advertising labels, other than as particularly shown on the Drawings, specified herein or approved by the Architect.

3.1.3. Exposed surfaces shall be clean and free from dust, dirt, scratches, dents, broken parts or units, chips, cracks, misaligned or improperly fitted joints, stains, discoloration or other defects or damage.

3.1.3. Each unit shall be assembled tightly and rigidly, secured in place and free from unnecessary movement.

3.1.4. Each unit assembly shall be set straight, plumb, level, accurately positioned and spaced at locations required.

3.1.5. Signs or dimensional letters shall be installed in accordance with approved manufacturer's instructions at locations shown on the approved detail drawings.

***** END OF SECTION *****

REPUBLIC OF THE PHILIPPINES
CORDILLERA ADMINISTRATIVE REGION

Contract Reference Number:
Name of Project: **Upgrading and Improvement of Land Development of RSCC Premises**
Location of the Project: **RSCC, Wangal, La Trinidad, Benguet**

Standard Form Number SF-INFR-55

BILL OF QUANTITIES

Columns 1, 2, 3, & 4 are to be filled up by the Procuring Entity				Columns 5 & 6 are to be filled by the bidders	
ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE (PESOS)	AMOUNT (PESOS)
	2	3	4	5	6
1	**GENERAL REQUIREMENTS**				
1.1	Mobilization/Demobilization	1.00	lot		
1.2	Temporary Facilities	1.00	lot		
1.3	Water and electrical consumption	1.00	lot		
2	**SLOPE PROTECTION WORKS**				
2.1	Earthworks: 2.1.1. Clearing and Grubbing 2.1.2. Excavation 2.1.3. Embankment/Backfill 2.1.4. Compaction		cu.m		
2.2	Grouted Riprap		cu.m		
2.3	Concrete Works		cu.m		
2.4	Reinforcing Steel Works: 2.4.1. 10mm dia rebar 2.4.2. 16mm dia rebar 2.4.3. #16 GI tie wire	1	lot		
2.5	Stone Finish: 2.5.1. Crazy cut boulder		sqm		
3	**DRAINAGE SYSTEM**				
3.1	Earthworks: 3.1.1. Excavation 3.1.2. Structure Excavation 3.1.3. Compaction		cu.m		
3.2	Forms		lot		
3.3	Concrete Works		cu.m		
3.4	Reinforcing Steel Works: 3.4.1. 10mm dia rebar 3.4.2. 12mm dia rebar 3.4.3. #16 GI tie wire	1	lot		
3.5	Steel Works: 3.5.1. 50mmx4.5mm flat bar 3.5.2. 50mmx50mmx4.5mm angle bar 3.5.3. Prefabricated galvanized steel gratings 3.5.4. Welding rod	1	lot		
3.6	Painting Works	1.00	lot		
4	**PERIMETER FENCE AND GATE**				
4.1	Earthworks: 4.1.1. Excavation 4.1.2. Structure Excavation 4.1.3. Compaction		cu.m		
4.2	Forms and Scaffoldings		lot		
4.3	Concrete Works		cu.m		
4.4	Reinforcing Steel Works:	1	lot		
4.5	Fence:	1	lot		
4.6	Gate				

	4.6.1. Automatic Electric Gate, Fabrication and Installation of 4 panels Automated Bifold Gate includes *Gate fabrication *Painting and finishing *Mounting of gate *Cabling Work for Gate automation *Installation of Bifold Gate Motor *Installation of Trackless Mechanism *1.5mm x 2" x 4" HDG Tubular Metal *1.5mm x 1" x 2" HDG Tubular Metal *1.5mm x 1" x 1" HDG Tubular Metal *Fiber Cement Board *Epoxy Gray Primer Paint *Matte Black Acrylic Automotive Spray Coated Paint *1 sets Stainless 304 Bifold Gate Hinges *1 Sets Pillow Block Hinges ---------- 1sets Automation System ---------- Automatic Bifold Gate Mechanism 700kg Max gate weight: - 350kg/Leaf Protection Class: - IP66 -Max leaf length: 2.5m/leaf -one circuit board, transformer -Gate move speed12S/90degrees -Auto closing delay time Adjustable -Heavy Duty Set: 2 Wireless remote controllers 2 swing gate controllers 1 unit electronic opener controller 1 Safety Photo Beam Sensor 1 Warning Signal Courtesy light Output	1.00	lot		
	4.6.2 Steel Gate	1.00	lot		
4.7	Finishes				
	4.7.1. Exterior wall tiles, Fence 2&3		sqm		
	4.7.2. Exterior wall tiles (Columns and		sqm		
4.8	Electrical Works				
	4.8.1. Conduits	1.00	lot		
5	**CONSTRUCTION SAFETY & HEALTH**				
	5.1. Safety shoes		pairs		
	5.2. Hard hats		pcs		
	5.3. Reflective vests		pcs		
	5.4. Safety signages	1.00	lot		
TOTAL BID PRICE:					
TOTAL AMT. IN WORDS: (in words)					

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

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

Technical Documents

☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**

☐ (d) Special PCAB License in case of Joint Ventures **and** registration for the type and cost of the contract to be bid; **and**

☐ (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission **or** original copy of Notarized Bid Securing Declaration; **and**

(f) Project Requirements, which shall include the following:

☐ a. Organizational chart for the contract to be bid;

☐ b. 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;

d. Certificate of Site Inspection duly signed by the Building and Ground Management Section Head; **and**

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

Financial Documents

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

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

☐ (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**

☐ (l) Duly accomplished Detailed Estimates Form, including a summary sheett indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**

☐ (m) Cash Flow by Quarter.

STATEMENT OF ALL ITS ON-GOING 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

Name of the Contract or Title of the Project	Owner's Name and Address	Nature of Work / Scope of Work	Contractor's Role and percentage of participation	Date of Contract	Total Contract Value at Award	Value of Outstanding Works	Contract Duration	Percentage (%) of Accomplishment		Estimated Time of Completion	
								Planned	Actual	Start	Completion
A) Government Contracts											
i. On-going											
ii. Awarded but not yet started											
B) Private Contracts											
i. On-going											
ii. Awarded but not yet started											

Note: This statement shall be supported with:

1. **Contract Agreement and/or Purchase Order**
2. **Notice to Proceed (for government contracts under Public Bidding)**

_____ _____ _____

Name of Firm / Applicant | Authorized Signatory | Date

Statement of Single Largest Similar Completed Contract

Business Name: _____
Business Address : _____

Name of Contract/Title of the Project	a. Owner's Name b. Address c. Telephone Nos.	Date of the Contract	Contract Duration	Nature / Scope of Work	Contractor's Role (Whether sole contractor, subcontractor, or partner in a JV)		Total Contract Value at Award	Date of Completion	Total contract value at completion	Percentage of Planned and Actual Accomplishments, if applicable	
					Description	Percentage of Participation (%)				Planned	Actual
Government Contracts											
Private Contracts											
Total Cost											

Note: This statement shall be supported with:

1 Notice to Proceed and/or Purchase Order/Contract

2 Owner's Certificate of Final Acceptance issued by the project owner other than the contractor or a final rating of at least **Satisfactory** in the Constructors Performance Evaluation System (CPES).

3 In case of contracts with the private sector, an equivalent document shall be submitted

Submitted by : _____
(Printed Name & Signature)

Designation : _____

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

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

Standard Form Number: SF-INFR-18
Revised on: July 29, 2004

Statement of Availability of Key Personnel and Equipment

(Date)

Mr. LEO L. QUINTILLA, CESE
Regional Director
DSWD-CAR
40 North Drive, Baguio City

Attention : The Chairperson
Bids and Awards Committee

Dear Sir:

In compliance with the requirements of the DSWD-CAR 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, project engineers, materials engineers and foremen, 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)

Standard Form Number: SF-INFR-44
Revised on: August 11, 2004

Contractor's Organizational Chart for the Firm

Submit Copy of the Organizational Chart of the firm. Indicate in the chart the names of the Project Manager, Project Engineer, Bridge Engineer, Structural Engineer, Materials and Quality Control Engineer, Foreman and other Key Engineering Personnel.

Attach the required Proposed Organizational Chart for the Contract as stated above

(Name of Representative)
(Position)
(Name of Bidder)

Standard Form Number: SF-INFR-47
Revised on: August 11, 2004

KEY PERSONNEL
(FORMAT OF BIO-DATA)

Give the detailed information of the following personnel who are scheduled to be assigned as full-time field staff for the project. Fill up a form for each person.

- Authorized Managing Officer / Representative
- Sustained Technical Employee

1. Name : _____
2. Date of Birth : _____
3. Nationality : _____
4. Education and Degrees : _____
5. Specialty : _____
6. Registration : _____
7. Length of Service with the Firm : _____ Year from ___ (months) _____ (year)
   To ___ (months) _____ (year)
8. Years of Experience : _____
9. If Item 7 is less than ten (10) years, give name and length of service with previous employers for a ten (10)-year period (attached additional sheet/s), if necessary:

Name and Address of Employer	Length of Service
_____	_____ year(s) from _____ to _____
_____	_____ year(s) from _____ to _____
_____	_____ year(s) from _____ to _____

10. Experience:

    This should cover the past ten (10) years of experience. (Attached as many pages as necessary to show involvement of personnel in projects using the format below).

1. Name : _____

2. Name and Address of Owner : _____

3. Name and Address of the Owner's Engineer (Consultant) : _____

4. Indicate the Features of Project (particulars of the project components and any other particular interest connected with the project): _____

5. Contract Amount Expressed in Philippine Currency : _____

6. Position : _____

7. Structures for which the employee was responsible : _____

8. Assignment Period : from _____ (months) _____ (years)
: to _____ (months) _____ (years)

_____
Name and Signature of Employee

It is hereby certified that the above personnel can be assigned to this project, if the contract is awarded to our company.

_____ _____
(Place and Date) (The Authorized Representative)

Standard Form Number: SF-INFR-48
Revised on: August 11, 2004

Qualification of Key Personnel

Business Name : _____

Business Address : _____

_____

	(For Ex.) Project Manager / Engineer					
1 Name						
2 Address						
3 Date of Birth						
4 Employed Since						
5 Experience						
6 Previous Employment						
7 Education						
8 PRC License						

Minimum Requirements :

:

:

:

Submitted by : _____

(Printed Name & Signature)

Designation : _____

Date : _____

Standard Form Number: SF-INFR-49
Revised on: August 11, 2004

List of Equipment, Owned or Leased and/or under Purchase Agreements

Business Name : _____
Business Address : _____

Description	Owned/ Leased/Under Purchase Agreement	Model/ Year	Capacity / Performance / Size	Plate No.	Motor No. / Body No.	Location	Condition	Proof of Ownership / Lessor or Vendor
1								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								

Submitted by : _____
(Printed Name & Signature)
Designation : _____
Date : _____

Print as many pages as necessary.

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, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

    a. Carefully examining all of the Bidding Documents;
    b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
    c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
    d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

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

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

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

Standard Form Number: SF-GOOD-14
Revised on: May 24, 2004

FINANCIAL DOCUMENTS FOR ELIGIBILITY CHECK

A. Summary of the Applicant Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the income tax return and audited financial statement for FY2021 or FY2022, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent.

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid.

NFCC = P _____

I hereby certify that the computation of the above is based on the income tax return and audited financial statement for FY2021 or FY2022 stamped "RECEIVED" by the BIR or BIR authorized collecting agent.

Submitted by:

_____
Name of Supplier / Distributor / Manufacturer

_____
Signature of Authorized Representative
Date : _____

NOTE:

1. If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

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 guidelines[1] 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.

k. We likewise certify/confirm that the undersigned, is the duly authorized

[1] currently based on GPPB Resolution No. 09-2020

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: _____

MARKING AND SEALING OF ENVELOPE:

ORIGINAL – TECHNICAL COMPONENT

MR. ENRIQUE H. GASCON JR.
Chairperson
Bids and Awards Committee
DSWD-CAR
#40 North Drive, Baguio City

Project: **[Project Title] [Lot ___ (if applicable)]**

Submitted by: **BIDDER'S COMPANY NAME**
BIDDERS CONTACT DETAILS

DO NOT OPEN BEFORE: Time / Date

ORIGINAL – FINANCIAL COMPONENT

MR. ENRIQUE H. GASCON JR.
Chairperson
Bids and Awards Committee
DSWD-CAR
#40 North Drive, Baguio City

Project: **[Project Title] [Lot ___ (if applicable)]**

Submitted by: **BIDDER'S COMPANY NAME**
BIDDERS CONTACT DETAILS

DO NOT OPEN BEFORE: Time / Date

COPY 1 – TECHNICAL COMPONENT

MR. ENRIQUE H. GASCON JR.
Chairperson
Bids and Awards Committee
DSWD-CAR
#40 North Drive, Baguio City

Project: **[Project Title] [Lot ___ (if applicable)]**

Submitted by: **BIDDER'S COMPANY NAME**
BIDDERS CONTACT DETAILS

DO NOT OPEN BEFORE: Time / Date

COPY 1– FINANCIAL COMPONENT

MR. ENRIQUE H. GASCON JR.
Chairperson
Bids and Awards Committee
DSWD-CAR
#40 North Drive, Baguio City

Project: **[Project Title] [Lot ___ (if applicable)]**

Submitted by: **BIDDER'S COMPANY NAME**
BIDDERS CONTACT DETAILS

DO NOT OPEN BEFORE: Time / Date

ORIGINAL – BID

MR. ENRIQUE H. GASCON JR.
Chairperson
Bids and Awards Committee
DSWD-CAR
#40 North Drive, Baguio City

Project: **[Project Title] [Lot ___ (if applicable)]**

Submitted by: **BIDDER'S COMPANY NAME**
BIDDERS CONTACT DETAILS

DO NOT OPEN BEFORE: Time / Date

COPY 1 – BID

MR. ENRIQUE H. GASCON JR.
Chairperson
Bids and Awards Committee
DSWD-CAR
#40 North Drive, Baguio City

Project: **[Project Title] [Lot ___ (if applicable)]**

Submitted by: **BIDDER'S COMPANY NAME**
BIDDERS CONTACT DETAILS

DO NOT OPEN BEFORE: Time / Date

BIDDING DOCUMENTS

MR. ENRIQUE H. GASCON JR.
Chairperson
Bids and Awards Committee
DSWD-CAR
#40 North Drive, Baguio City

Project: **[Project Title] [Lot ___ (if applicable)]**

Submitted by: **BIDDER'S COMPANY NAME**
BIDDERS CONTACT DETAILS

DO NOT OPEN BEFORE: Time / Date

Note: The technical and financial documents must be submitted in two (2) copies (Original Copy and Copy 1). The Original Technical Component envelope and Original Financial Component envelope must be sealed in one envelope marked "ORIGINAL BID". The Copy 1 Technical Component envelope and Copy 1 Financial Component Envelope must also be sealed in another envelope marked "Copy 1 Bid". These envelopes containing the Original Copy and Copy 1 must be enclosed in one single envelope marked "BIDDING DOCUMENTS". The technical and financial documents must be properly tabbed and signed.

CERTIFICATE OF SITE INSPECTION

This is to certify that _____ of _____
(Name of Representative)

_____ with office address
(Name of Entity)

at _____ had inspected the site for the

_____

_____

_____located at _____.

This certification is issued to Mr./Ms. _____ as part
(Name of Bidder or Representative) of his/her Technical Proposal.

Issued this ____ of _____, 2023.

AR. GLYXTER RUDIO
Administrative Officer I / BGMS Head

DSWD Field Office Cordillera Administrative Region, 40 North Drive, Baguio City, Philippines 2600
Website: www.car.dswd.gov.ph Tel Nos.: (074) 661 0430 | (02) 396 6580 | (0917) 871 9893 | (0917) 872 0256

DSWD Field Office Cordillera Administrative Region, 40 North Drive, Baguio City, Philippines 2600
Website: www.car.dswd.gov.ph Tel Nos.: (074) 661 0430 | (02) 396 6580 | (0917) 871 9893 | (0917) 872 0256