REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF PUBLIC WORKS AND HIGHWAY

CAMARINES SUR 1ST

DISTRICT ENGINEERING OFFICE

BARAS, CANAMAN, CAMARINES SUR

BIDDING DOCUMENTS

FOR

PROCUREMENT ID/CONTRACT ID: 25FD0109

CONTRACT NAME: CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR

CONTRACT LOCATION: RAGAY, CAMARINES SUR

Date of Opening of Bids: ***August 4, 2025***

Start Date for Issuance
of Bidding Documents: **July 15, 2025**

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the **Contract.**

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee**.**

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas**.**

CDA – Cooperative Development Authority**.**

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment**.**

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency**.**

PCAB – Philippine Contractors Accreditation Board**.**

PhilGEPS - Philippine Government Electronic Procurement System**.**

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

PSA – Philippine Statistics Authority**.**

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations

Section I. Invitation to Bid

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE
Baras, Canaman, Camarines Sur

BAGONG PILIPINAS

INVITATION TO BID

For

Construction of School Building, Godofredo Reyes Sr. High School, Barangay Godofredo Reyes Sr., Ragay, Camarines Sur

1. The **DPWH Camarines Sur 1st District Engineering Office**, through the **General Appropriations Act (GAA) CY – 2025 (RA 12116)** intends to apply the sum of **Four Million Nine Hundred Seventy Four Thousand Eight Hundred Eighty Seven and 78/100 (Php 4,974,887.78)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Construction of School Building, Godofredo Reyes Sr. High School, Barangay Godofredo Reyes Sr., Ragay, Camarines Sur/25FD0109.** Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The **DPWH Camarines Sur 1st District Engineering Office** through its Bids and Awards Committee now invites bids for the hereunder Works:

Name of Contract	:	**Construction of School Building, Godofredo Reyes Sr. High School, Barangay Godofredo Reyes Sr., Ragay, Camarines Sur**
Contract ID No.	:	**25FD0109**
Locations	:	**Ragay, Camarines Sur**
Scope of Works	:	**Construction of School Building**
Approved Budget for the Contract	:	**Four Million Nine Hundred Seventy Four Thousand Eight Hundred Eighty Seven and 78/100 (Php 4,974,887.78)**
Contract Duration	:	**90 Calendar Days**

3. Prospective Bidders should be (1) registered with and classified by the Philippine Contractors Accreditation Board (PCAB) with PCAB LICENSE Category of **C & D – Small B** for **General Building.** The description of an eligible Bidder is contained in the Bidding Documents, particularly, in Annex II-1.1 B Section II and III of Bidding Documents.

   Contractors/applicants who wish to participate in this bidding are encouraged to enroll in the DPWH Civil Works Application (CWA) at the DPWH Procurement Service (PrS), 5th Floor, DPWH Bldg., Bonifacio Drive, Port Area, Manila, while those already enrolled shall keep their records current and updated. The Contractor's eligibility to bid on the project will be determined using the DPWH Contractor Profile Eligibility Process (CPEP) and subject to further post-qualification. Information on registration can be obtained from the PrS during working weekdays from 7:00 am to 4:00 pm or at the DPWH website www.dpwh.gov.ph

4. 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 9184 (RA 9184), otherwise known as the "Government Procurement Reform Act". The contract shall be awarded to the Lowest Calculated Responsive Bidder (LCRB) who was determined as such during post-qualification.

5. Interested bidders may obtain further information from the **DPWH Camarines Sur 1st DEO Procurement Unit** Office and inspect the Bidding Documents at Baras, Canaman, Camarines Sur during weekdays from 8:00am to 5:00pm.

6. A complete set of Bidding Documents may be acquired by interested bidders **July 15, 2025 – August 4, 2025,** from the address below and upon payment of the applicable fee for the Bidding

Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Five Thousand Pesos Only (Php 5,000.00).**

7. It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS)- www.philgeps.gov.ph, and the website of the Procuring Entity- www.dpwh.gov.ph, provided that bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

8. The **DPWH - Camarines Sur 1st District Engineering Office** will hold a Pre-Bid Conference on **July 22, 2025,** at **DE & ADE's Conference Room, DPWH, Camarines Sur 1st DEO, Baras, Canaman, Camarines Sur**, which shall be open to prospective bidders.

9. Bid submission maybe done manually or electronically/online. However, bidders should only select one mode of submission, either manual or electronic. Similar to manual submission, the guidelines for the preparation and submission of an electronic bid are contained in the BDS.

10. Bids must be duly received by the BAC Secretariat at the address below for manual submission or at **electronicbids_camarinessur1@dpwh.gov.ph** for electronic submission on or before **August 4, 2025, 10:00 a.m.** All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

11. Bid opening shall be on **August 4, 2025, 10:00 am** at **DE & ADE's Conference Room, DPWH, Camarines Sur 1st DEO, Baras, Canaman, Camarines Sur.** Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.

12. The **DPWH Camarines Sur 1st District Engineering Office** 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 Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

13. For further information, please refer to:

MARIA LUCIA R. REQUEJO
Head BAC SECRETARIAT
054-881-1469
Local 54721
requejo.maria_lucia@dpwhnet.gov.ph

ENRIQUE A. DIONISIO
BAC Chairperson
054-881-1469
dionisio.enrique@dpwh.gov.ph

Section II. Instructions to Bidders

Instructions to Bidders

1. Scope of Bid

The Procuring Entity, [indicate name] invites Bids for the [insert Procurement Project], with Project Identification Number [indicate number].

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

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for [indicate funding year] in the amount of [indicate amount].

2.2. The source of funding is:

[If an early procurement activity, select one and delete others:]

a. NGA, the National Expenditure Program.

b. GOCC and GFIs, the proposed Corporate Operating Budget.

c. LGUs, the proposed Local Expenditure Program.

[If not an early procurement activity, select one and delete others:]

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

b. GOCC and GFIs, the Corporate Operating Budget.

c. LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

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:
[Select one, delete other/s]

a. Subcontracting is allowed. The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the BDS, which shall not exceed fifty percent (50%) of the contracted Works.

b. Subcontracting is not allowed.

7.1. [If Procuring Entity has determined that subcontracting is allowed during the bidding , state:] The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in ITB Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.

7.2. [If subcontracting is allowed during the contract implementation stage, state:] The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in ITB Clause 5 to the implementing or end-user unit.

7.3. 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 the specified date and time and either at its physical address {[insert if applicable] and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the IB.

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the BDS.

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

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

11. Documents Comprising the Bid: Financial Component

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

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

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid 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: [Select one, delete other/s]

a. Philippine Pesos.

b. [indicate currency if procurement involves a foreign-denominated bid as allowed by the Procuring Entity, which shall be tradeable or acceptable by the BSP.]

15. Bid Security

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

15.2. The Bid and bid security shall be valid until [indicate date]. 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 16 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 (BDS)

BID DATA SHEET

Contract ID Number 25FD0109

Construction of School Building, Godofredo Reyes Sr. High School, Barangay Godofredo Reyes Sr., Ragay, Camarines Sur

<table>
<tr><th>ITB Clause</th><th></th></tr>
<tr><td>1</td><td>The Procuring Entity is DPWH Camarines Sur 1st District Engineering Office, Baras, Canaman, Camarines Sur

The scope of the Works under this Contract is
Construction of School Building

The Contract Name/Location is
Construction of School Building, Godofredo Reyes Sr. High School, Barangay Godofredo Reyes Sr., Ragay, Camarines Sur

The Contract ID is <u>25FD0109</u></td></tr>
<tr><td>2.</td><td>2.1 The Approved Budget for the Contract is <u>P 4,974,887.78</u>
2.2 The Funding Source is the Government of the Philippines through
<u>GAA, General Appropriations Act CY 2025 (RA 12116)</u></td></tr>
<tr><td>5.2</td><td>A contract is considered to be "similar" to the contract to be bid if it has the major categories of work as per provisions in DPWH DO No. 117 s. 2017.</td></tr>
<tr><td>7.1b</td><td>Subcontracting is not allowed</td></tr>
<tr><td>8</td><td>The Pre-Bid Conference is on July 22, 2025, at 8:30 a.m.

The venue of the Pre-Bid Conference is at DE & ADE's Conference Room, DPWH Camarines Sur 1st District Engineering Office and through video-conferencing/webcasting via Youtube - DPWH Camarines Sur 1st DEO-Procurement which shall be open to prospective bidders</td></tr>
<tr><td>10.3</td><td>"No further instruction."</td></tr>
<tr><td>10.4</td><td>The minimum work experience requirements for the key personnel are the following:
<table>
<tr><th>Key Personnel</th><th>Min. Years of Similar Experience (Same Position)</th><th>Min. Years of Total Work Experience (Same Position)</th></tr>
<tr><td>Project Manager</td><td>3 Years</td><td>3 Years</td></tr>
<tr><td>Project Engineer</td><td>3 Years</td><td>3 Years</td></tr>
<tr><td>Materials Engineer</td><td>3 Years</td><td>3 Years</td></tr>
<tr><td>Safety Officer</td><td>1 Year</td><td>1 Year</td></tr>
<tr><td>Construction Foreman</td><td>3 Years</td><td>3 Years</td></tr>
</table>
Accredited Safety Officer (Required Upon Issuance of Notice of Award) subject to D.O. 98 Series of 2014: Submission of Construction Safety and Health Program Approved by the Department of Labor and Employment (DOLE).

First Aider w/ certificate of Training issued by RED CROSS in compliance to DOLE requirements for the approval of Construction Safety & Health Program (Required upon issuance of Notice of Award) subject to D.O 98 Series of 2014: Submission of Construction Safety and Health Program Approved by the Department of Labor and Employment (DOLE).</td></tr>
</table>

<table>
<tr><td></td><td>The key personnel should meet the following number of years' work experience.
1. The experience means total years of civil works experience (of any nature in construction and engineering consultancy services)
2. Included the Tax Identification Number (TIN) of the Key Personnel. Compliance to D.O 98 series of 2016: Revised Guidelines on the Accreditation of Contractor's/ Consultants' Materials Engineer.
3. Include the contract number of the Materials Engineer.</td></tr>
<tr><td>10.5</td><td>1.The minimum major equipment requirements are the following:
<table>
<tr><th>Description</th><th>Capacity</th><th>Required Units</th></tr>
<tr><td>1. One Bagger Concrete Mixer</td><td>4-6 ft^3/min</td><td>1</td></tr>
<tr><td>2. Dump Truck</td><td>All Models, 12 yd^3, 290 hp</td><td>1</td></tr>
<tr><td>3. Welding Machine</td><td>Gas/Diesel Driven, 300 amp, 48 hp</td><td>1</td></tr>
<tr><td>4. Plate Compactor</td><td>400-500 Gasoline Engine, 5 hp</td><td>1</td></tr>
<tr><td>5. Bar Cutter</td><td>25 mm Maximum Rebar Dia. (Grade 40), Single Phase</td><td>1</td></tr>
<tr><td>6. Bar Bender</td><td>25 mm Maximum Rebar Dia., Three Phase</td><td>1</td></tr>
<tr><td>7. H-Frame Scaffoldings (Rental)</td><td>-</td><td>1</td></tr>
<tr><td>8. Cutting Outfit</td><td>-</td><td>1</td></tr>
<tr><td>9. Concrete Vibrator</td><td>Flexible Shaft Type 2" Head Ø with 5 Amperes Gasoline Drive Unit</td><td>1</td></tr>
<tr><td>10. Water Truck</td><td>All Makes, 16000 L, 360 hp</td><td>1</td></tr>
<tr><td>11. Hand Tools</td><td>-</td><td>enough</td></tr>
</table>
2. Laboratory Equipment — Required No. of Units — Minimum Capacity/ Unit
Please refer to D.O. 11 Series of 2017 for the minimum materials testing equipment and D.O 127, Series of 2018, Strict Application of R.A 9184 in the conduct of Post-Qualification of Bidders with Delayed On-Going Contracts with the DPWH.</td></tr>
<tr><td>12</td><td>" Not Applicable"</td></tr>
<tr><td>15.1</td><td>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], 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] if bid security is in Surety Bond.</td></tr>
<tr><td>16</td><td>Format and Signing of Bids
Each Bidder shall prepare an original of the first and second components of its bid.
In addition, the Bidder shall submit Two (2) copies of the first and second components.
In the event of any discrepancy between the original and the copies, the original shall prevail.</td></tr>
</table>

	As per Department Order 90 series of 2002 (a copy attached). **Bookbinding, paging of the documents and tabbing of bid documents** as per checklist attached **Each copy of the first and second envelopes shall be similarly sealed duly marking the inner envelopes as** "COPY NO. One - TECHNICAL COMPONENT", "COPY NO. One - FINANCIAL COMPONENT", "COPY NO. Two - TECHNICAL COMPONENT", and "COPY NO. Two – FINANCIAL COMPONENT" **and the outer envelope as** "COPY NO. One " and "COPY NO. Two ", **respectively. These envelopes containing the original and the copies shall then be enclosed in** ONE SINGLE ENVELOPE.
17	Bid submission maybe done manually or electronically/online. **However, bidders should only select one mode of submission, either manual or electronic.** The address for receipt of Bids submitted manually is at **DE' & ADE's Conference Room, DPWH Camarines Sur 1st DEO, Baras, Canaman, Camarines Sur** The deadline for receipt of Bids is on **August 4, 2025, at 10:00 A.M** **For bids to be submitted electronically/online, the following procedures should be observed following D.O 87 - 2020:** 1. **Submission of electronic Official Receipt of purchase of the Bidding Documents** Prior to the deadline of submission of bids, the prospective bidders shall send an e-mail with subject **"Official Receipt for [Insert Contract ID]"** to **[Insert dedicated e-mail address]**. Attached to the said email is the copy of the Official Receipt of purchase of bidding documents in Portable Document File (PDF) format with file name in the format **"<PCAP ID>_ <CONTRACT ID>_OfficialReceipt.pdf"**. For example, the filename of the attached PDF containing the Official Receipt of the Contract with PCAB ID No. 12345, who intends to participate in the bidding of Contract ID No. 20Z00123 shall be "12345_20Z00123_OfficialReceipt.pdf". Further, the e-mail subject would be "Official Receipt for 20Z00123". In case a prospective bidder originally intends to join the bidding as Joint Venture (referred as "original bidder"), has been issued an Official Receipt of purchase of bidding documents and has submitted the electronic Official Receipt, but eventually decided to join the bidding with new members or as individual contractors (referred as "regrouped bidder"), or vice-versa, the "regrouped bidder" should purchase a new bidding document to be issued with the corresponding Official Receipt in their name and submit the electronic Official Receipt following the same procedures. **2. Confirmation of the electronically submitted Official Receipt** 2.1 An e-mail shall be received by a prospective bidder confirming its successful submission of the Official Receipt as required under Item 1. **Only the electronic bids of bidders who have successfully submitted an electronic Official Receipt shall be accepted.** 2.2 An e-mail shall also be received by a prospective bidder in

instances where their sent e-mail related to Item 1:

a. Has incorrect subject Contract ID, which means that a corresponding folder with the same Contract ID does not exist in the eBid Portal;

b. Has no attachment;

c. Has an attachment but is not in the prescribe format;

d. Has more than one (1) attachment; or

e. Was received after the deadline of bid submission.

For the foregoing cases, the prospective bidders should rectify/correct the noted deficiency/ies to comply with the requirements under Item 1 for its electronic bid to be accepted.

3. Preparation and submission of an Electronic Bid

The prospective bidders shall prepare and submit their bids electronically following the steps prescribed under with D.O. 87 -2020 in accordance with GPPB Resolution No. 09-2020 as follows:

a. Following GPPB Resolution No. 09-2020, a bidder has the option to submit bid electronically. **However, if a bidder chooses to submit an electronic bid, the same bidder can no longer submit a bid manually for the same contract, and vice versa.**

b. Similar to manual submission, prospective bidders shall prepare their bids in **two (2) file folders,** each for the Technical and Financial Components. The file name of the Technical and Financial Components folders should be in format **<PCAB ID>_<CONTRACT ID>_TECHNICAL** and **<PCAB ID>_<CONTRACT ID>_FINANCIAL** (e.g. 12345 20Z00123 TECHNICAL, 12345 20Z00123 FINANCIAL).

Subsequently, each of the Technical and Financial Components file folders shall be **COMPRESSED, PASSWORD PROTECTED** and **NAMED** in the format **<PCAB ID>_<CONTRACT ID>_TECHNICAL.zip (or .rar/ .7z)** and **<PCAB ID>_<CONTRACT ID>_FINANCIAL.zip (or .rar/7z)**, respectively (20Z00123 TECHNICAL.zip, 12345 20Z00123 FINANCIAL. zip).

c. Each file contained in the Technical and Financial Components file folders shall be in PDF format (either scanned or exported/ published), with file name in the format **<PCAB ID>_<CONTRACT ID>_DescriptiveFilename.pdf (**e.g. 12345 20Z00123 PCABLicense.pdf, 12345 20Z00123 OmnibusSwornStatement.pdf).

d. The compressed archive file folders of the Technical and Financial components shall be compiled in a **PASSWORD PROTECTED COMPRESS ARCHIVE MAIN FILE FOLDER with filename in the format <PCAB>_<CONTRACT ID>_Bid** (e.g. 12345 20Z00123 Bid).

In case the total file size of the main archive file folder is more than the allowable size of an attachment per e-mail of the prospective

bidder's e-mail service provider (e.g. Gmail, Yahoo, Mail, Outlook), they shall need to split its electronic bid into two or more **PASSWORD PROTECTED COMPRESSED ARCHIVE MAIN FILE FOLDERS.**

e. The e-mail submitting the prospective bidder's electronic bid should have a Subject in the format **"Bid Submission for [Insert Contract ID]"** (e.g. "Bid Submission for 20Z00123").

In case of multiple compressed archive main file folders, it shall be submitted in multiple e-mails, each with Subject in the format **"Bid Submission [Insert Number of main archive folder]/[Insert total number of main archive folders]"** (e.g. "Bid Submission ½ for 20Z00123" and "Bid Submission 2/2 for 20Z00123").

f. The prospective bidder shall submit its electronic bid to **electronicbids_camarinessur1@dpwh.gov.ph** using the prospective bidder's email address registered in the Civil Works Application (CWA). In case prospective bidders are not yet registered, they can use any e-mail address, subject to the verification of the BAC Secretariat.

4. Modification of an electronic bid

If bidder wishes to modify its electronic bid, he may do so following the procedures in the manual submission of bid or he may choose to submit his modification electronically in the same format prescribed in the preparation and submission of an electronic bid, except that the subject of the e-mail submitting the bid modification shall be labelled "Bid Modification X for <Contract ID>", where "X" represents the number of bid modification submitted. For example, the subject of an e-mail submitting a first bid modification for Contract ID No. 20Z00123 should be "Bid Modification 1 for 20Z00123".

5. Non-participation in the Bidding

In case a prospective bidder that have purchased a bidding document decided not to participate, he may choose to submit his letter of nonparticipation manually or electronically. In case of electronic submission, the contractor shall send an e-mail with the Subject "Nonparticipation for <Contract ID>" with the letter of non-participation as attachment with file name "<PCAB ID>_<CONTRACT ID>_NonParticipation.pdf". This e-mail should be sent to **electronicbids_camarinessur1@dpwh.gov.ph** before the deadline for bid submission.

6. Withdrawal of Electronic Bid

Bids may be only withdrawn prior the deadline for bid submission. In case of withdrawal of an electronic bid, the bidder shall send an e-mail with the subject "Bid Withdrawal for <Contract ID>" and the letter of bid withdrawal in pdf format with file name "<PCAB ID>_<CONTRACT ID>_BidWithdrawal.pdf" shall be attached. This e-mail should be sent to **electronicbids_camarinessur1@dpwh.gov.ph** before the deadline for bid submission.

7. Opening of the electronic bid

Only during the actual opening of bids shall be bidder disclose the passwords for his electronic bid. This can be done by the bidder's authorized

	representative verbally in person, through phone call, online platforms (e.g. videoconferencing, webcasting), or through writing. In all cases, the bidders will have only three (3) attempts or fifteen (15) minutes, whichever comes first, to provide the correct password. Otherwise, the bidder shall be disqualified except in unforeseen justifiable circumstances. The bidder may also be subjected to the three-strike policy (D.O. 17, Series of 2015) as warranted by the circumstances. If the bidder chooses to disclose the password through phone call, he should make sure that the contract numbers as recorded in the Civil Works Application are open when the BAC call to ask for the password. The bidder may also choose to call the BAC number **(054) 881-1469** during the bid opening time and wait for the opening of his bid for him to disclose the password. If the bidder chooses to attend the bid opening through online conference, the bidder should join the meeting using the following link **(Youtube Page DPWH Camarines Sur 1st DEO - Procurement)** If the bidder chooses to disclose the passwords through writing, the letters for password 1 (Main File Folder/Technical Component File Folder) and password 2 (Financial Component File Folder) should be enclosed in separate envelopes with the sender details (AMO, Bidder Name, Address) addressed to the BAC Chairperson, with the details of the bidding (Contract ID, Contract Name, Bid Opening Date and Time), signed and sealed, with a remark "Password [Insert 1 or 2]. Do not open before actual bid opening date and time". All electronic bids (Passwords protected compressed archive main file folder/s) shall be opened first for the opening of the Technical Component compressed archive folder/s. This shall be followed by the opening of bids submitted manually for the opening of the Technical Component Envelopes. The same procedures apply for the Financial Components compressed archive file folder/s and financial component envelopes. If the electronic bid or file within it was found to be damaged, could not be extracted or opened, the bid shall be considered "Failed". If the electronic bid is not password-protected or is not in the required format, the bid shall still be accepted provided that the bidder acknowledges such condition. The BAC shall assume no responsibility for the misplacement of the contents of the contents of the improperly sealed or marked bid, or improperly compressed or password-protected folder, or for its premature opening. **8. File name convention in case of a Joint Venture Bidder** For Joint Venture (JV), the format of PCAB ID to be use by the bidder in naming their files, folders and archives shall be "JV_<PCAB ID of the Lead Member>" For example, if three (3) Contractors with PCAB ID Nos. 12345 (lead member), 67890, and 24680 entered into a JV, the PCAB ID they must use is "JV-12345".
19.2	No further instructions.
20	Not Applicable
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, **List additional contract documents relevant to the Project that may be**

	required by existing laws and/or the Procuring Entity, such as **1. construction schedule and S-curve,** **2. manpower schedule,** **3. construction methods,** **4. equipment utilization schedule** **5. construction safety and health program approved by the Department of Labor and Employment, and** **6. Precedence Diagram Method (PDM)**

Section IV. General Conditions of Contract

General Conditions of Contract

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

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

6. Site Investigation Reports

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

7. Warranty

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

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

SPECIAL CONDITIONS OF CONTRACT

Contract ID Number 25FD0109

CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR

GCC Clause	
2	*Not applicable*
3.1	The Procuring Entity shall give possession of the Site to the Contractor upon the receipt of the Notice to Proceed.
6	The site investigation reports are: *None*
7.2	*[Select one, delete the other.]* *[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]* Fifteen (15) years. *[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]* Five (5) years. *[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]* Two (2) years.
10	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) days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is one percent (1%) of the progress billing.
13	The amount of the advance payment is *[insert amount as percentage of the contract price that shall not exceed 15% of the total contract price and schedule of payment]*.
14	Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which "as built" drawings are required is ***thirty (30) calendar days from completion of the project.***
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ***1% of the final Contract Price.***

Section VI. SPECIFICATION

SPECIFICATION

Contract ID Number 25FD0109

CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR

1. DPWH Standards

The **DPWH Standard Specifications for Public Works and Highways** ("Blue Book") shall be the main basis for the standards and codes to be met by the goods and materials to be furnished and work performed or tested for the Contract. In particular, Volume II of the Blue Book shall be used if the Contract pertains to Highways, Bridges and Airports. Volume III of the Blue Book shall be used if the Contract pertains to Buildings, Flood Control and Drainage, or Water Supply. The Blue Book incorporates standards of the American Association of State Highway and Transportation Officials (AASHTO), American Society for Testing and Materials (ASTM), and American Concrete Institute (ACI), among others, pertaining to construction.

The Procuring Entity shall use the Standard Pay Items in the Project and Contract Management Application (PCMA) in drawing up the Specifications.

2. Modifications of Standards

2.1 Modifications of and additions to standards and codes as stated in the DPWH Standard Specifications for Public Works and Highways, if any, shall be included in the enclosed Supplemental Specifications, which is part of these Bidding Documents.

2.2 Entries in the Supplemental Specifications are numbered to coincide with the numbering of items in the DPWH Standard Specifications for Public Works and Highways.

Section VII. DRAWINGS

Section VIII. Bill of Quantities

Contract ID: **25FD0109**
Contract Name: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR**
Location of the Contract: **RAGAY, CAMARINES SUR**

BILL OF QUANTITIES

Part No. _____ **Part Description:** _____

(Columns (1), (2), (3) and (4) are to be filled by the Procuring Entity)				(Columns (5) and (6) are to be filled by the Bidder)	
Pay Item No. (1)	**Description** (2)	**Unit** (3)	**Quantity** (4)	**Unit Price** (Pesos) (5)	**Amount** (Pesos) (6)
PART A	**FACILITIES FOR THE ENGINEER**				
A.1.1(8)	**Provision of Field Office for the Engineer (Rental Basis)**	**mo.**	**3.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
PART B	**OTHER GENERAL REQUIREMENTS**				
B.3(1)	**Permits and Clearances**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
B.5(1)	**Project Billboard/ Signboard**	**each**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
B.7(1)	**Occupational Safety and Health**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
B.9(1)	**Mobilization/Demobilization**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
B.26(2)	**Ramps**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
B.26(5)	**Railings**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
B.26(4)	**Doors**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
B.26(8)	**Washrooms and Toilets**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
				TOTAL FOR THIS PAGE	**In Words: Pesos** _____ _____ **In Figures: Php**

Submitted by:

DATE: _____

_____
Name of Bidder's Representative

_____
Position

_____
Name of the Bidder

Contract ID: **25FD0109**
Contract Name: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR**
Location of the Contract: **RAGAY, CAMARINES SUR**

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Pay Item No. (1)	**Description** (2)	**Unit** (3)	**Quantity** (4)	**Unit Price** (Pesos) (5)	**Amount** (Pesos) (6)
PART C	**EARTHWORK**				
800(1)	**Clearing and Grubbing**	**sq.m.**	**103.05**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
803(1)a	**Structure Excavation, Common Soil**	**cu.m.**	**66.10**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
804(1)a	**Embankment from Roadway/Structure Excavation, Common Soil**	**cu.m.**	**57.99**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
804(2)a	**Embankment from Borrow, Common Soil**	**cu.m.**	**52.20**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
804(7)	**Gravel Fill**	**cu.m.**	**21.94**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
PART D	**REINFORCED CONCRETE**				
900(1)c	**Structural Concrete (3000 psi, Class A, 28 days)**	**cu.m.**	**47.64**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
902(1)a1	**Reinforcing Steel (Deformed, Grade 40)**	**kg.**	**8,525.00**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
903(2)	**Formworks and Falseworks**	**sq.m.**	**325.89**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
PART E	**FINISHINGS AND OTHER CIVIL WORKS**				
1000(1)	**Soil Poisoning**	**L.**	**20.61**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
				TOTAL FOR THIS PAGE	**In Words: Pesos** _____ **In Figures: Php**

Submitted by:

DATE: _____

_____
Name of Bidder's Representative

_____
Position

_____
Name of the Bidder

Contract ID: **25FD0109**
Contract Name: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR**
Location of the Contract: **RAGAY, CAMARINES SUR**

BILL OF QUANTITIES

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Pay Item No. (1)	**Description** (2)	**Unit** (3)	**Quantity** (4)	**Unit Price** (Pesos) (5)	**Amount** (Pesos) (6)
1001(5)b	**Catch Basin, CHB**	**ea.**	**7.00**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
1001(8)	**Sewer Line Works**	**l.s.**	**1.00**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
1001(9)	**Storm Drainage and Downspout**	**l.s.**	**1.00**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
1001(11)	**Septic Vault/Tank (Concrete/CHB)**	**l.s.**	**1.00**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
1002(4)	**Plumbing Fixtures**	**l.s.**	**1.00**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
1002(24)	**Cold Water Lines**	**l.s.**	**1.00**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
1003(1)a1	**Ceiling, 4.5mm, Metal Frame, Fiber Cement Board**	**sq.m.**	**107.21**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
1003(17)	**Carpentry and Joinery Works**	**l.s.**	**1.00**	**In Words: Pesos** _____ **In Figures: Pesos**	**In Figures: Php** -
				TOTAL FOR THIS PAGE	**In Words: Pesos** _____ **In Figures: Php**

Submitted by:

DATE: _____

_____
Name of Bidder's Representative

_____
Position

_____
Name of the Bidder

Contract ID: **25FD0109**
Contract Name: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR**
Location of the Contract: **RAGAY, CAMARINES SUR**

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(Columns (1), (2), (3) and (4) are to be filled by the Procuring Entity)				(Columns (5) and (6) are to be filled by the Bidder)	
Pay Item No. (1)	**Description** (2)	**Unit** (3)	**Quantity** (4)	**Unit Price** (Pesos) (5)	**Amount** (Pesos) (6)
1004(2)	**Finishing Hardware**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1005(1)	**Residential Casement (Steel)**	**sq.m.**	**5.85**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1005(6)	**Window Accessory**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1008(1)c	**Aluminum Glass Windows, Awning Type**	**sq.m.**	**0.36**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1009(1)a	**Jalousie Windows (Glass)**	**sq.m.**	**5.40**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1010(1)	**Frames (Jambs, Sills, Head, Transoms and Mullions)**	**set**	**3.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1010(2)b	**Doors, Wood Panel**	**sq.m.**	**5.28**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1013(2)a	**Fabricated Metal Roofing Accessory (Gauge 26 (0.551 mm), Ridge/Hip Rolls)**	**l.m.**	**9.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1013(2)b	**Fabricated Metal Roofing Accessory (Gauge 26 (0.551 mm), Flashing)**	**l.m.**	**22.80**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
				TOTAL FOR THIS PAGE	**In Words: Pesos** _____ _____ **In Figures: Php**

Submitted by:

DATE: _____

_____
Name of Bidder's Representative

_____
Position

_____
Name of the Bidder

Contract ID: **25FD0109**
Contract Name: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR**
Location of the Contract: **RAGAY, CAMARINES SUR**

BILL OF QUANTITIES

Part No. _____ **Part Description:** _____

(Columns (1), (2), (3) and (4) are to be filled by the Procuring Entity)				(Columns (5) and (6) are to be filled by the Bidder)	
Pay Item No. (1)	**Description** (2)	**Unit** (3)	**Quantity** (4)	**Unit Price** (Pesos) (5)	**Amount** (Pesos) (6)
1014(1)a2	**Pre-painted Metal Sheets (above 0.427mm, Corrugated, Long Span)**	**sq.m.**	**102.60**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1016(1)a	**Waterproofing (Cement-base)**	**sq.m.**	**72.80**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1018(1)	**Glazed Tiles and Trims**	**sq.m.**	**11.49**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1021(1)c	**Cement Floor Finish, with Floor Hardener**	**sq.m.**	**117.71**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1027(1)	**Cement Plaster Finish**	**sq.m.**	**348.72**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1032(1)a	**Painting Works, Masonry/Concrete**	**sq.m.**	**557.22**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1032(1)b	**Painting Works, Wood**	**sq.m.**	**15.54**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1032(1)c	**Painting Works, Steel**	**sq.m.**	**4.06**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1038(1)	**Reflective Insulation**	**sq.m.**	**102.60**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
				TOTAL FOR THIS PAGE	**In Words: Pesos** _____ _____ **In Figures: Php**

Submitted by:

DATE: _____

_____
Name of Bidder's Representative

_____
Position

_____
Name of the Bidder

Contract ID: **25FD0109**
Contract Name: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR**
Location of the Contract: **RAGAY, CAMARINES SUR**

BILL OF QUANTITIES

Part No. _____ **Part Description:** _____

(Columns (1), (2), (3) and (4) are to be filled by the Procuring Entity)				(Columns (5) and (6) are to be filled by the Bidder)	
Pay Item No. (1)	**Description** (2)	**Unit** (3)	**Quantity** (4)	**Unit Price** (Pesos) (5)	**Amount** (Pesos) (6)
1046(2)a2	**CHB Non-Load Bearing (including Reinforcing Steel), 150 mm**	**sq.m.**	**174.36**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1047(4)a	**Metal Structure Accessories (Bolts and Rods)**	**ea.**	**36.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1047(4)b	**Metal Structure Accessories (Turnbuckle)**	**ea.**	**8.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1047(5)b	**Metal Structure Accessories (Sagrods)**	**kg.**	**50.62**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1047(5)c	**Metal Structure Accessories (Cross Bracing)**	**kg.**	**83.37**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1047(5)d	**Metal Structure Accessories (Steel Plates)**	**kg.**	**471.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1047(8)a	**Structural Steel (Trusses)**	**kg.**	**2,438.60**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1047(8)b	**Structural Steel (Purlins)**	**kg.**	**662.13**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
PART F - ELECTRICAL					
1100(10)	**Conduits, Boxes & Fittings (Conduit Works/ Conduit Rough-In)**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
				TOTAL FOR THIS PAGE	**In Words: Pesos** _____ _____ **In Figures: Php**

Submitted by:

DATE: _____

_____
Name of Bidder's Representative

_____
Position

_____
Name of the Bidder

Contract ID: **25FD0109**
Contract Name: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR**
Location of the Contract: **RAGAY, CAMARINES SUR**

BILL OF QUANTITIES

Part No. _____ **Part Description:** _____

(Columns (1), (2), (3) and (4) are to be filled by the Procuring Entity)				(Columns (5) and (6) are to be filled by the Bidder)	
Pay Item No. (1)	**Description** (2)	**Unit** (3)	**Quantity** (4)	**Unit Price** (Pesos) (5)	**Amount** (Pesos) (6)
1101(33)	**Wires and Wiring Devices**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1102(1)	**Panelboard with Main and Branch Breakers**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1102(18)	**Solar Panel with Inverter, Battery and Other Devices**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1103(1)	**Lighting Fixtures**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
PART G - MECHANICAL					
1200(1)	**Ventilating Equipment**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1202(6)b1	**Fire Extinguisher (4.54 kg, CO2/HCFC123 with bracket)**	**set**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
1208(1)	**Fire Alarm System**	**l.s.**	**1.00**	**In Words: Pesos** _____ _____ **In Figures: Pesos**	**In Figures: Php** -
				TOTAL FOR THIS PAGE	**In Words: Pesos** _____ _____ **In Figures: Php**
				GRAND TOTAL	**In Words: Pesos** _____ _____ **In Figures: Php**

Submitted by:

DATE: _____

_____
Name of Bidder's Representative

_____
Position

_____
Name of the Bidder

Bidders Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);

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; **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.

Bidders Checklist of Technical and Financial Documents

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

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

☐ (d) Cash Flow by Quarter.

Section XI. Bidding Forms

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[12] 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 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,

[12] ~~currently based on GPPB Resolution~~ No. 09-2020

and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity*].*

I. 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: _____

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]

Performance Securing Declaration (Revised)

[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award but be replace with performance security in any of the prescribed forms under Section 39.2 of 2016 revised IRR of 9184]

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

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents] To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.

2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;

3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:

    a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
        i. Procuring Entity has no claims filed against the contract awardee;
        ii. It has no claims for labor and materials filed against the contractor; and
        iii. Other terms of the contract; or

    b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

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]

CONTRACTOR'S ORGANIZATIONAL CHART FOR THE CONTRACT

Submit a copy of the Organizational Chart that the Contractor intends to use to execute the Contract if awarded to it. Indicate in the chart the names of the Project Manager, Project Engineer, Structural Engineer, Materials and Quality Control Engineer, Foremen, and other Key Personnel, as required in the Instructions to Bidders (Bid Data Sheet). Include Sub-Contractors, if any.

Attach the required Proposed Organizational Chart for the Contract as stated above.

Name and Signature of Bidder's Representative Date: _____

Position

Name of Bidder

Department of Public Works and Highways

Contract ID:
Contract Name:
Location of the Contract:

LIST OF CONTRACTOR'S KEY PERSONNEL TO BE ASSIGNED TO THE CONTRACT, WITH THEIR QUALIFICATION DATA

Date of Issuance

Name of Head of Procuring Entity
Position
Name of Procuring Entity
Address

Dear Sir/Madame:

Supplementing our Organizational Chart for the abovestated Contract, we submit, and certify as true and correct, the following information:

1. We have engaged the services of the following key personnel to perform the duties of the positions indicated in the abovestated Contract if it is awarded to us:

Proposed Position *(as applicable)*	Name	Years of Experience	
		Total (Similar and Related)	Similar Position
Project Manager			
Project Engineer			
Materials Engineer			
Construction Safety Officer			
Foreman			
Others (specify)			

2. We submit the enclosed Curriculum Vitae and Affidavits of Commitment to Work on the Contract of these key personnel.

3. We ensure that the abovementioned personnel shall employ their best care, skill, and ability in performing the duties of their respective positions in accordance with the provisions of the Contract, including the Conditions of Contract, Specifications, and Drawings, and that they shall be personally present in the jobsite during the period of their assignment in the Contract.

4. In the event that we choose to replace any of the abovementioned key personnel, we shall submit to you in writing at least fourteen (14) days before making the replacement, for your approval, the name and biodata of the proposed replacement whose qualifications shall be equal to or better than that of the person to be replaced.

5. We understand that any violation of the abovestated conditions shall be a sufficient ground for us to be disqualified from this Contract and future biddings of the DPWH.

Very truly yours,

Name and Signature of Bidder's Authorized Representative

LIST OF CONTRACTOR'S MAJOR CONSTRUCTION AND LABORATORY EQUIPMENT UNITS TO BE ASSIGNED TO THE CONTRACT, SUPPORTED BY CERTIFICATIONS OF AVAILABILITY

Business Name :_____
Business Address : _____

Description	Model/Year `	Capacity / Performance / Size	Plate No.	Motor No. / Body	Location	Condition	Proof of Ownership / Lease/Purchase
A. Owned[1]							
i.							
ii.							
iii.							
iv.							
v.							
B. Leased[2]							
i.							
ii.							
iii.							
iv.							
v.							
C. Under Purchase Agreements[3]							
i.							
ii.							
iii.							
iv.							
v.							

[1]Attched are copies of sales invoice / Registration Certificate from LTO.
2Attached are the certifications from the lessors that the equipment units under B (Leased) shall be available for this contract.
3Attached are the certifications from the vendors that the equipment units under C (Purchase Agreements) shall be available for this contract.

_____ _____
_____ _____
_____ _____
_____

Minimum major construction equipment requirement as prescribed in the Bid Data Sheet: Minimum major laboratory equipment requirements as prescribed in Bid Data Sheet:

Name and Signature of Bidder's Representative Date: _____
Position
Name of Bidder

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]

LETTER OF NOMINEE FOR PROJECT MANAGER

_____ (Date)
The Honorable Secretary
Department of Public Works and Highways
_____ (Address)

Sir:

Supplementing our Confidential Application Statement for Eligibility for the Proposed Construction of (*name of project and location*), I/we have the honor to submit and certify herewith to be true and correct, the following pertinent information:

1. That I/we have engaged and contracted the services of Mr._____, hereinafter called the Project Manager, a registered Civil Engineer with Professional License Certificate No. _____ issued on _____ and who has paid his Professional Tax for the current year, dated_____and who was performed the same duties in the construction of the projects enumerated in his/her Certificate of Employment and Bio-Data:

2. That said Engineer shall be appointed and designated by us as Project Manager to personally perform the same duties in the above-mentioned Project, if and when the same is awarded in our favor;

3. That said Engineer shall employ the best care, skills and ability in performing his duties in accordance with the Contract Agreement, Conditions of Contract, Plans, Specifications, Special Provisions and other provisions embodied in the proposed Contract;

4. That said Engineer shall be personally present at the jobsite to supervise the phase of construction work pertaining to his assignment as Project Manager all the time;

5. That, in order to guarantee that said Engineer shall manage and supervise properly and be personally present in the Project, he is hereby required to secure a certification of appearance from the DPWH Engineer at the end of every month. That I/we shall not start the work without the Project Manager at the jobsite;

6. That in the event that I/we elect or choose to replace the said Project Manager with another Engineer, the Head, Implementing Office of the DPWH will be notified by us accordingly in writing at least twenty one (21) days before making replacement;

7. That the name of the proposed new Project Manager, his qualifications, his experience, list of projects undertaken and other relevant information, shall be submitted to the DPWH for prior approval; and

8. That any willful violation on my/our part of the herein conditions may prejudice my/our standing as a reliable contractor in future bidding of the DPWH.

Very truly yours,

_____
(Contractor)

CONCURRED IN:

_____
(Project Manager)

_____
(Address)

LETTER OF NOMINEE FOR PROJECT ENGINEER/RESIDENT ENGINEER

_____ (Date)

The Honorable Secretary
Department of Public Works and Highways
_____ (Address)

Sir:

Supplementing our Confidential Application Statement for Eligibility for the Proposed Construction of (*name of project and location*), I/we have the honor to submit and certify herewith, to be true and correct, the following pertinent information:

1. That I/we have engaged and contracted the services of Mr./Ms._____, hereinafter called the Project Engineer/Resident Engineer, a registered Civil Engineer with Professional License Certificate No._____issued on_____and who has paid his Professional Tax for the current year, dated_____and who was performed the same duties in the construction of the projects enumerated in his/her Certificate of Employment and Bio-Data:

2. That said Engineer shall be appointed and designated by us as Project Engineer/ Resident Engineer to personally perform the same duties in the above-mentioned Project, if and when the same is awarded in our favor;

3. That said Engineer shall employ the best care, skills and ability in performing his duties in accordance with the Contract Agreement, Conditions of Contract, Plans, Specifications, and other provisions embodied in the proposed Contract;

4. That said Engineer shall be personally present at the jobsite to supervise the phase of construction work pertaining to his assignment as Project Engineer all the time;

5. That, in order to guarantee that said Engineer shall manage and supervise properly and be personally present in the Project, he is hereby required to secure a certification of appearance from the DPWH Engineer at the end of every month. That I/we shall not start the work without the Project Engineer at the jobsite;

6. That in the event that I/we elect or choose to replace the said Project Engineer/ Resident Engineer with another Engineer, the Head, Implementing Office of the DPWH will be notified by us accordingly in writing at least twenty one (21) days before making replacement;

7. That the name of the proposed new Project Engineer/Resident Engineer, his qualifications, his experience, list of projects undertaken and other relevant information, shall be submitted to the DPWH for prior approval; and

8. That any willful violation on my/our part of the herein conditions may prejudice my/our standing as a reliable contractor in future bidding of the DPWH.

Very truly yours,

_____
(Contractor)

CONCURRED IN:

_____
(Project Engineer/Resident Engineer)

_____
(Address)

LETTER OF NOMINEE FOR MATERIALS ENGINEER

_____ (Date)

The Honorable Secretary
Department of Public Works and Highways
_____ (Address)

Sir:

Supplementing our Confidential Application Statement for Eligibility for the Proposed Construction of *(project name and location),* I/we have the honor to submit and certify herewith to be true and correct, the following pertinent information:

1. That I/we have engaged and contracted the services of Mr./Ms._____, hereinafter called the Materials Engineer, a registered Civil Engineer with Professional License Certificate No. _____ issued on _____ and who has paid his Professional Tax for the current year, dated_____and who was performed the same duties in the construction of the projects enumerated in his/her Certificate of Employment and Bio-Data:

2. That said Engineer shall be appointed and designated by us as Materials Engineer to personally perform the same duties in the above-mentioned Project, if and when the same is awarded in our favor;

3. That said Engineer shall employ the best care, skills and ability in performing his duties in accordance with the Contract Agreement, Conditions of Contract, Plans, Specifications, and other provisions embodied in the proposed Contract;

4. That said Engineer shall be personally present at the jobsite to supervise the phase of construction work pertaining to his assignment as Materials Engineer all the time;

5. That, in order to guarantee that said Engineer shall manage and supervise properly and be personally present in the Project, he is hereby required to secure a certification of appearance from the DPWH Engineer at the end of every month. That I/we shall not start the work without the Materials Engineer at the jobsite;

6. That in the event that I/we elect or choose to replace the said Materials Engineer with another Engineer, the Head, Implementing Office of the DPWH will be notified by us accordingly in writing at least twenty one (21) days before making replacement;

7. That the name of the proposed new Materials Engineer, his qualifications, his experience, list of projects undertaken and other relevant information, shall be submitted to the DPWH for prior approval; and

8. That any willful violation on my/our part of the herein conditions may prejudice my/our standing as a reliable contractor in future bidding of the DPWH.

Very truly yours,

_____
(Contractor)

CONCURRED IN:

_____
(Materials Engineer)

_____
(Address)

LETTER OF NOMINEE FOR FOREMAN

_____ (Date)

The Honorable Secretary
Department of Public Works and Highways
_____ (Address)

Sir:

Supplementing our Confidential Application Statement for Eligibility for the Proposed Construction of *(name of project and location)*, I/we have the honor to submit and certify herewith to be true and correct, the following pertinent information:

1. That I/we have engaged and contracted the services of Mr._____, hereinafter called the Foreman, who has performed the same duties in the construction of the projects enumerated in his/her Certificate of Employment and Bio-Data;

2. That said person shall be appointed and designated by us as our Foreman to personally perform the same duties in the above-mentioned Project, if and when the same is awarded in our favor;

3. That said Foreman shall employ the best care, skills and ability in performing his duties in accordance with the Contract Agreement, Conditions of Contract, Plans, Specifications, and other provisions embodied in the proposed Contract;

4. That said Foreman shall be personally present at the jobsite to supervise the phase of construction work pertaining to his assignment as Foreman all the time;

5. That, in order to guarantee that said Foreman shall manage and supervise properly and be personally present in the Project, he is hereby required to secure a certification of appearance from the DPWH Engineer at the end of every month. That I/we shall not start the work without the Foreman at the jobsite;

6. That in the event that I/we elect or choose to replace the said Foreman, the Head, Implementing Office of the DPWH will be notified by us accordingly in writing at least twenty one (21) days before making replacement;

7. That the name of the proposed new Foreman, his qualifications, his experience, list of projects undertaken and other relevant information, shall be submitted to the DPWH for prior approval; and

8. That any willful violation on my/our part of the herein conditions may prejudice my/our standing as a reliable contractor in future bidding of the DPWH.

Very truly yours,

_____
(Contractor)

CONCURRED IN:

_____
(Foreman)

_____
(Address)

PROJECT MANAGER'S CERTIFICATE OF EMPLOYMENT

_____ (Date)

The Honorable Secretary
Department of Public Works and Highways
_____ (Address)

Sir:

I am a licensed Civil Engineer with Professional License No._____issued on _____ at_____.

I hereby certify that_____contracted my services as Project Manager on the _____, if awarded to him.

The following projects had been supervised by me as Project Manager (mention only projects of same nature as aforesaid Contract);

NAME OF PROJECT	OWNER	COST	DATE COMPLETED

At present, I am supervising the following on-going projects:

NAME OF PROJECT	OWNER	COST	% ACCOMPLISHED

In case of my separation for any reason whatsoever from the above-mentioned Contractor, I shall notify the Department of Public Works and Highways at least twenty-one (21) days before the effective date of my separation.

I have read carefully and will abide by the conditions required of me in the Contractor's Confidential Application Statement for Pre-qualification of the above Contractor.

As Project Manager, I know I will have to stay in the Project all the time to supervise and manage the Project to the best of my ability, and am aware that I am authorized to handle only one (1) project at a time.

I did not allow the use of my name for the purpose only of enabling the above-mentioned Contractor to qualify for the Project without any firm intention on my part to assume the post as Project Manager if the Project is awarded to him since I understand that to do so will be a sufficient ground for my disqualification as Project Manager in any future bidding or employment for any Contractor doing business with the Department of Public Works and Highways.

_____
(Signature of Project Manager)

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

SUBSCRIBED AND SWORN TO BEFORE ME this_____day of, affiant exhibiting to me his Residence Tax Certificate No._____issued on_____at _____.

_____
Notary Public
PTR No. _____
Until _____

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

PROJECT ENGINEER'S/RESIDENT ENGINEER'S CERTIFICATE OF EMPLOYMENT

_____ (Date)

The Honorable Secretary
Department of Public Works and Highways
_____ (Address)

Sir:

I am a licensed Civil Engineer with Professional License No._____issued on _____ at_____.

I hereby certify that_____contracted my services as Project Engineer/Resident Engineer on the_____, if awarded to him.

The following projects had been supervised by me as Project Engineer/Resident Engineer (mention only projects of same nature as aforesaid Contract);

NAME OF PROJECT	OWNER	COST	DATE COMPLETED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

At present, I am supervising the following on-going projects:

NAME OF PROJECT	OWNER	COST	% ACCOMPLISHED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

In case of my separation for any reason whatsoever from the above-mentioned Contractor, I shall notify the Department of Public Works and Highways at least twenty-one (21) days before the effective date of my separation.

I have read carefully and will abide by the conditions required of me in the Contractor's Confidential Application Statement for Pre-qualification of the above Contractor.

As Project Engineer/ Resident Engineer, I know I will have to stay in the Project all the time to supervise and manage the Project to the best of my ability, and am aware that I am authorized to handle only ONE (1) project at a time.

I did not allow the use of my name for the purpose only of enabling the above-mentioned Contractor to qualify for the Project without any firm intention on my part to assume the post as Project Engineer/ Resident Engineer if the Project is awarded to him since I understand that to do so will be a sufficient ground for my disqualification as Project Engineer/ Resident Engineer in any future bidding or employment for any Contractor doing business with the Department of Public Works and Highways.

_____
(Signature of Project Engineer)

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

SUBSCRIBED AND SWORN TO BEFORE ME this_____day of, affiant exhibiting to me his Residence Tax Certificate No._____issued on_____at _____.

_____
Notary Public

PTR No. _____
Until _____

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

MATERIALS ENGINEER'S CERTIFICATE OF EMPLOYMENT

_____ (Date)

The Honorable Secretary
Department of Public Works and Highways
_____ (Address)

Sir:

I am a licensed Civil Engineer with Professional License No._____issued on _____ at_____.

I hereby certify that_____contracted my services as Materials Engineer on the _____, if awarded to him.

The following projects had been supervised by me as Project Materials Engineer (mention only projects of same nature as aforesaid Contract);

NAME OF PROJECT	OWNER	COST	DATE COMPLETED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

At present, I am supervising the following on-going projects:

NAME OF PROJECT	OWNER	COST	% ACCOMPLISHMENT
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

In case of my separation for any reason whatsoever from the above-mentioned Contractor, I shall notify the Department of Public Works and Highways at least TWENTY-ONE (21) days before the effective date of my separation.

I have read carefully and will abide by the conditions required of me in the Contractor's Confidential Application Statement for Pre-qualification of the above Contractor.

As Materials Engineer, I know I will have to stay in the Project all the time to supervise and manage the Project to the best of my ability, and am aware that I am authorized to handle only ONE (1) project at a time.

I did not allow the use of my name for the purpose only of enabling the above-mentioned Contractor to qualify for the Project without any firm intention on my part to assume the post as Materials Engineer if the Project is awarded to him since I understand that to do so will be a sufficient ground for my disqualification as Materials Engineer in any future bidding or employment for any Contractor doing business with the Department of Public Works and Highways.

_____
(Signature of Materials Engineer)

DRY SEAL

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

SUBSCRIBED AND SWORN TO BEFORE ME this_____day of, affiant exhibiting to me his Residence Tax Certificate No._____issued on _____at _____.

_____
Notary Public

_____
PTR No.

_____
Until

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

FOREMAN'S CERTIFICATE OF EMPLOYMENT

_____ (Date)

The Honorable Secretary
Department of Public Works and Highways
_____

(Address) Sir:

I hereby certify that Contractor_____has engaged my services as
Foreman on the_____, if awarded to him.

The following projects had been supervised by me as Foreman (mention only projects of same nature as aforesaid Contract);

NAME OF PROJECT	OWNER	COST	DATE COMPLETED

At present, I am supervising the following on-going projects:

NAME OF PROJECT	OWNER	COST	% ACCOMPLISHED

I have read carefully and will abide by the conditions required of me in the Contractor's Confidential Application Statement for Pre-qualification of the above Contractor.

As Foreman, I know I will have to stay in the Project all the time to supervise and manage the Project to the best of my ability, and am aware that I am authorized to handle only one (1) project at a time.

In case of my separation for any reason whatsoever from the above-mentioned Contractor, I shall notify the Department of Public Works and Highways at least twenty-one (21) days before the effective date of my separation.

I did not allow the use of my name for the purpose only of enabling the above-mentioned Contractor to qualify for the Project without any firm intention on my part to assume the post as Foreman if the Project is awarded to him since I understand that to do so will be a sufficient ground for my disqualification as Foreman in any future bidding or employment for any Contractor doing business with the Department of Public Works and Highways.

_____
(Signature of Foreman)

REPUBLIC OF THE PHILIPPINES)

CITY

SUBSCRIBED AND SWORN TO BEFORE ME this_____day_____ of, affiant exhibiting to me his Residence Tax Certificate No._____issued_____on

_____at_____

_____
Notary Public

PTR No. _____
Until _____

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

Department of Public Works and Highways

Contract ID: _____
Contract Name:_____
Location of the Contract:_____

SUMMARY OF BID PRICES
(All Parts of Bill of Quantities or BOQ)

Instructions for completing the Summary of Bid Prices:

1. Part No. – Enter the "Part No." for each section of the BOQ where unit prices are entered.

2. Part Description – Enter the "Part Description" corresponding to the "Part No."

3. Total Amount – Enter the "Total Amount" in Pesos for all pages having the same "Part Description"

Part No.	Part Description	Total Amount
	Total of Amounts	
Total of All Amounts in Words: **Pesos _____** _____ _____ and centavos.		

Name_____in the capacity of _____

Signed_____Date _____

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

Department of Public Works and Highways

Contract ID:

Contract Name:

Location of the Contract:

PRELIMINARY EXAMINATION CLASS" A" DOCUMENTS

Date of Submission/Opening of Bids : _____

Name of Contractor : _____

Approved Budget for the Contract (ABC) : _____

TOTAL AMOUNT OF BID : _____

Class "A" Documents (IRR Section 23.1a):			Tab. No.	Implementing Unit	BAC Member	BAC Member	BAC Member	BAC Chairman
1.	**Legal Documents**							
	a.	PhilGeps Registration- valid until_____ (Platinum Registration- New Format)						
2.	**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; **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.						
3.	**Financial Requirements**							
	h.	The prospective bidder's computation of Net Financial Contracting Capacity (NFCC). Php _____						
Class "B" Documents (IRR Section 23.1a):								
	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.						

Note : Any missing, incomplete or patently insufficient document in the above-mentioned checklist is a ground for outright rejection of the bid.

Overall Rating: ( ) Passed ( ) Failed

Department of Public Works and Highways

Contract ID:

Contract Name:

Location of the Contract:

PRELIMINARY EXAMINATION OF FINANCIAL PROPOSAL

Date of Submission/Opening of Bids : _____
Name of Contractor : _____
Approved Budget for the Contract (ABC) : _____
TOTAL AMOUNT OF BID : _____

Financial Requirements

	Tab No.	Implementing Unit	BAC Member	BAC Member	BAC Member	BAC Chairman
a. Bid Form						
b. Bid Prices in the Bill of Quantities						
c. Detailed Estimates including a Summary sheet indicating the unit prices of construction materials, labor rates and equipment rentals used in coming up with the bid;						
d. Quarterly/Monthly Cash Flow and Payment Schedule						
Note : Any missing, incomplete or patently insufficient document in the above-mentioned checklist is a ground for outright rejection of the bid.						

Overall Rating: **( ) Passed ( ) Failed**

Department of Public Works and Highways

Contract ID:
Contract Name:
Location of the Contract:

CASH FLOW BY QUARTER

PARTICULAR	TOTAL.	YEAR				YEAR			
		1st Q	2nd Q	3rd Q	4th Q	1ST Q	2ND Q	3RD Q	4TH Q
ACCOMPLISHMENT, IN %	100.0%								
CASH FLOW, IN PhP									
CUMULATIVE ACCOMPLISHMENT, IN %	100.0%								
CUMULATIVE CASH FLOW, IN PhP									

PARTICULAR	TOTAL.	YEAR				YEAR			
		1st Q	2nd Q	3rd Q	4th Q	1ST Q	2ND Q	3RD Q	4TH Q
ACCOMPLISHMENT, IN %									
CASH FLOW, IN PhP									
CUMULATIVE ACCOMPLISHMENT, IN %									
CUMULATIVE CASH FLOW, IN PhP									

Submitted by:

Name and Signature of Bidder's Representative *Date:* _____
Position
Name of Bidder

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1st
DISTRICT ENGINEERing OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

Contract ID : _____
Contract Name : _____
Location of the Contract : _____

QUALIFICATION OF KEY PERSONNEL PROPOSED TO BE ASSIGNED TO THE CONTRACT

Business Name : _____
Business Address : _____

	Project Manager	Project Engineer	Materials Engineer	Construction Safety and Health Officer	Construction Foreman
1. Name					
2. Address					
3. Date of Birth					
4. Employed Since					
5. Experience					
6. Previous Employment					
7. Education					
8. PRC License / Designation & Accreditation Number					
9. TIN No.					

Minimum Requirements : Project Manager / Engineer
: Materials Engineer
: Foreman
: Safety Officer

Submitted by : _____
(Printed Name and Signature)
Designation : _____
Date : _____

DPWH-J

LIST OF COMPLETED PROJECTS

List of all Completed and On-going contracts including those already awarded but not yet started, both in government and in the private sector:

NOTE: Cost must be in Philippine Pesos computed on the date of the signing of the contract

Contract ID	Contract Name	Owner	% Participation	Contract Date		Percent		Major Categories of Work Code Refer to Attachment A	Dimension	Estimated Total Cost per Mayor Work Category
				Start mm/dd/yy	Completion mm/dd/yy	WA	TE			

Key: WA = Work Accomplished **TE - Time Elapsed**

Submitted by : _____
Name of Authorized Representative: _____
Position : _____
Name of Bidder : _____
Date : _____

Attachment:

1 Notice of Award
2 Approved Contract of Approved Contract Agreements with copy of scope of work and contract costs and Bill of Quantities (BOQ)
3 Approved Notice to Proceed (NTP)

DPWH-J

LIST OF ON-GOING PROJECTS

List of all Completed and On-going contracts including those already awarded but not yet started, both in government and in the private sector:

NOTE: Cost must be in Philippine Pesos computed on the date of the signing of the contract

Contract ID	Contract Name	Owner	% Participation	Contract Date		Percent		Major Categories of Work Code Refer to Attachment A	Dimension	Estimated Total Cost per Mayor Work Category
				Start mm/dd/yy	Completion mm/dd/yy	WA	TE			

Key: WA = Work Accomplished **TE - Time Elapsed**

Submitted by : _____

Name of Authorized Representative: _____

Position : _____

Name of Bidder : _____

Date : _____

Attachment:

1 Notice of Award
2 Approved Contract of Approved Contract Agreements with copy of scope of work and contract costs and Bill of Quantities (BOQ)
3 Approved Notice to Proceed (NTP)

epublic of the Philippines
nt of Public Works and Highways
ICE OF THE SECRETARY
M a n i l a

DEPARTMENT ORDER)
NO. 90)
Series of 2002)

SUBJECT: BOOKBINDING AND PAGING OF PRE-QUALIFICATIONS AND BID DOCUMENTS

In order to improve transparency and prevent any insinuation of impropriety in evaluation of contracts pre-qualification and bid documents, all implementing Offices concerned are hereby directed to include the following measures ih the "invitation to pre qualify/Apply for Eligibility to Bid", Instructions to Bidders and to be taken up during Prebid conferences, to wit:

All prequalification and bid documents being required for submission must be properly book bound; and

The contents of which must be all numbered/paginated consecutively, the total number of which must be indicated in the covering and signed by the duly authorized representative.

This Order shall take effect immediately.

(Signed)
SIMEON A. DATUMANONG
Secretary

097.13 BAWH
01-25-2017

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE SECRETARY
Manila

24 JAN 2017

DEPARTMENT ORDER NO. 11 Series of 2017

SUBJECT: **Inclusion of the Minimum Materials Testing Equipment In the Technical Component of the Bid**

Section 25.2.b) of the Revised IRR of RA 9184 requires, among other technical requirements, the inclusion of the list of contractor's major equipment units which are owned, leased, and/or under purchase agreement, 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.

DPWH Procurement Manual Volume II-Infrastructure Main Guidelines specifically requires the submission of the materials testing equipment as stated in Clause 5.6.2.a) Technical Proposal and Clause 5.6.2.a.4.c) Project Requirements using Form DPWH-INFR-15: List of Contractor's Major Construction and Laboratory Equipment Units to be Assigned to the Contract Supported by Certifications of Availability.

Considering that materials testing equipment are essential during construction stage of a project, it shall therefore be included in the technical requirement of the Bid together with the other major equipment as contained in the Technical Envelope which shall be subjected to preliminary examination and further verified during the post-qualification stage.

This minimum materials testing equipment requirement shall be on a "per contractor" basis, and not on a "per project basis", i. e. the equipment maybe used to service several on-going projects of the contractors.

As such, the Implementing Offices are hereby directed to compel the contractors to comply with the prescribed Minimum Materials Testing Equipment and to utilize first their own laboratory testing equipment/facilities before engaging the services of private testing laboratories for required test out of their capacity to perform to ensure effective and better quality control of construction materials during the implementation of DPWH infrastructure projects.

Attached are the List of Minimum Materials Testing Equipment to be proposed for Small, Medium and Large Contractors. (Annex "A").

This Department Order supersedes Department Order No. 80, Series of 1990 and all other issuances (DO No. 8, Series of 1996 and DO 138, Series of 2015) relative thereto. This shall take effect fifteen (15) days after its last publication in the official gazette or newspaper of general circulation.

RAUL C. ASIS
Undersecretary
Officer-In-Charge

Department of Public Works and Highways
Office of the Secretary
WIN7XR01214

Minimum Materials Testing Equipment for Small Contractors

Equipment	Tests	Materials/ Products
Sieve, Std., 200 mm diameter, opening 75 mm (3")	Grading Test, PL-LL Tests Soundness Test, Abrasion Test, Field Density Test, Specific Gravity	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregate, Soil Aggregates, Aggregate Surface Course
-ditto- 63 mm (2 1/2")		
-ditto- 50 mm (2")		
-ditto- 37.5 mm (1 1/2")		
-ditto- 25.0 mm (1")		
-ditto- 19.0 mm (3/4")		
-ditto- 12.5 mm (1/2")		
-ditto- 9.5 mm (3/8")		
-ditto- 4.75 mm (No.4)		
-ditto- 2.36 mm (No. 8)		
-ditto- 2.00 mm (No. 10)		
-ditto- 1.18 mm (No. 16)		
-ditto- 0.600 mm (No. 30)		
-ditto- 0.425 mm (No. 40)		
-ditto- 0.300 mm (No. 50)		
-ditto- 0.150 mm (No. 100)		
-ditto- 0.075 mm (No. 200)		
Pan, Brass, 200mm dia. x 50 mm deep		
Cover, Brass, Sieve		
Brush, Fine Sieve		
Brush, Wire, Sieve		
Mortar & Pestle		
Atterberg Limit Test Set 1 - Liquid Limit Device 1 - Mixing Dish 1 - Spatula, flexible 1 - Graduated Cylinder, glass, 100 ml 24 - Moisture Content can, 60 ml, tin	PL-LL Tests	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Soil Aggregates, Aggregate Surface Course
Glass Plate, Plastic Limit		
Hammer, Modified Compaction Mold, Compaction, 152.4 mm diameter x 116.4 mm height	Laboratory Compaction	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Stabilized Road Mix Base Course, Treated Plant Mix Base Course
Moisture Content Can, 225mL, tin	Laboratory Compaction	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Stabilized Road Mix
	FDT	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Subbase Course, Compacted

Minimum Materials Testing Equipment for Small Contractors

Equipment	Tests	Materials/Products
	Field Density Test	Base Course, Aggregate Surface Course
Field Density Test Set 1 - Sand Density Cone 1 - Jug, Glass or Plastic, 4-L capacity 1 - Density Plate 1 - Straight Edge 1 - Spoon 1 - 25 mm Chisel, Steel 1 - 4-l Field Can 1 - Mallet, rubber 1 - Scoop, sand		Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base Course, Compacted Subbase Course, Aggregate Surface Course
Auger, Post Hole, with two-m extension	Soil Sampling	Disturbed Soil Sampling
Cylinder, Glass, Double Graduated, 500mL cap.	PL-LL Test, Compaction	'Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base Course, Compacted Subbase Course, Aggregate Surface Course
Bowl, Mixing, 250mm dia.x90mm high		
Pan, Square, G.I 600mmx600mmx75mm	Aggregate and soil test sampling, Field Density Test (FDT)	
Spade or Shovel		
Pickaxe		
Crowbar		
Balance, Triple Beam, 311g cap. (0.01g sensitivity)	PL-LL Test	Excavated Materials, Embankment, Portland Cement, Soil Aggregates
	Specific Gravity Test	Excavated Materials, Embankment, Fine Aggregates
Balance, Triple Beam, 7610g cap. (0.1g sensitivity)	Soundness Test, FDT, Moisture Content	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Soil Aggregates, Aggregate Surface Course
	Specific Gravity Test	Excavated Materials, Embankment, Coarse Aggregates
Balance, Heavy Duty Solution, 20kg cap. (1g sensitivity)	Compaction, Specific Gravity, Field Density Test	Soil Analysis
Mold, Steel, Cylinder, 150mmx300mm	Compression Test	Fresh Concrete Mix
Mold, Steel Beam, 150mmx150mmx500mm	Flexural Test	Fresh Concrete Mix
Slump Test Set Slump Cone, Complete with base and tamping rod Trowel, Triangular or Rectangular blade, 90mmx180mm Scale	Concrete Slump Test	Fresh Concrete Mix
Thermometer, Metal, dial type, 0-250°C	Temperature Monitor of Concrete & Asphalt	Concrete & Asphalt Mixes
Concrete Measure 0.014 cu.m. cap. (1/2 cu.ft.)	Unit Weight	Concrete Aggregate

Minimum Materials Testing Equipment for Small Contractors

Equipment	Tests	Materials/Products
Straight Edge, Steel 300mm long	Laboratory Compaction	Soil Aggregate
Concrete Mixer, Portable	Mixing of Fresh Concrete	Mix Products

Minimum Materials Testing Equipment for Medium Contractors

Equipment	Tests	Materials/Products
Sieve, Std., 200 mm diameter, opening 75 mm (3") -ditto- 63 mm (2 1/2") -ditto- 50 mm (2") -ditto- 37.5 mm (1 1/2") -ditto- 25.0 mm (1") -ditto- 19.0 mm (3/4") -ditto- 12.5 mm (1/2") -ditto- 9.5 mm (3/8") -ditto- 4.75 mm (No.4) -ditto- 2.36 mm (No. 8) -ditto- 2.00 mm (No. 10) -ditto- 1.18 mm (No. 16) -ditto- 0.600 mm (No. 30) -ditto- 0.425 mm (No. 40) -ditto- 0.300 mm (No. 50) -ditto- 0.150 mm (No. 100) -ditto- 0.075 mm (No. 200)	Grading Test, PL-LL Test Soundness Test, Abrasion Test, Field Density Test (FDT), Specific Gravity	Excavated materials, Embankment, Fine/Coarse/Crushed Aggregate, Soil Aggregates, Aggregate Surface Course
Pan, Brass, 200mm dia. X 50 mm deep		
Cover, Brass, Sieve		
Brush, Fine Sieve		
Brush, Wire, Sieve		
Balance, Heavy Duty Solution, 20kg cap. (1g sensitivity)	Compaction, Specific Gravity, Field Density Test (FDT)	Soil Analysis
Mortar, Soil, Porcelain, 125mm dia.	PL-LL Tests	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Soil Aggregates, Aggregate Surface Course
Pestle, Soil, Rubber Tip		
Atterberg Limit Test Set 1 - Liquid Limit Device 1 - Mixing Dish 1 - Spatula, flexible 1 - Graduated Cylinder, glass, 100 ml 12 - Moisture Content can, 60 ml, tin		
Glass Plate, Plastic Limit		

Minimum Materials Testing Equipment for Medium Contractors

Equipment	Tests	Materials/Products
Balance, Triple Beam, 311g cap. (0.01g sensitivity)	PL-LL Tests	Excavated Materials, Embankment, Portland Cement, Soil Aggregates
	Specific Gravity Test	Excavated Materials, Embankment, Fine Aggregates
Balance, Triple Beam, 2610g cap. (0.19g sensitivity)	Soundness Test, Field Density Test (FDT), Moisture Content	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Soil Aggregates, Aggregate Surface Course
	Specific Gravity Test	Excavated Materials, Embankment, Coarse Aggregates,
Hammer, Modified Compaction Mold, Compaction, 101.6 mm diameter x 116.4 mm height	Laboratory Compaction	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Stabilized Road Mix Base Course, Treated Plant Mix Base Course
Moisture Content Can, 225mL, tin	Laboratory Compaction	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Stabilized Road Mix
	Field Density Test (FDT)	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base Course, Compacted Subbase Course, Aggregate Surface Course
Concrete Measure 0.014 cu.m. cap. (1/2 cu.ft.)	Unit Weight	Concrete Aggregate
Straight Edge, Steel 300mm long	Laboratory Compaction	Soil Aggregate
Field Density Test Set 1 - Sand Density Cone 1 - Jug, Glass or Plastic, 4-L capacity 1 - Density Plate 1 Straight Edge 1 - Spoon 1 - 25 mm Chisel, Steel 1 - 4-L Field Can 1 Mallet, rubber 1 - Scoop, sand	Field Density Test (FDT)	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base Course, Compacted Subbase Course, Aggregate Surface Course
Auger, Post Hole, with two-m extension	Soil Sampling	Disturbed Soil Sampling
Cylinder, Glass, Double Graduated, 500mL cap. Bowl, Mixing, 250mm dia.x90mm high	PL-LL Tests, Laboratory Compaction	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base

Minimum Materials Testing Equipment for Medium Contractors

Equipment	Tests	Materials/Products
Pan, Square, G.I. 600mmx600mmx75mm Spade or Shovel Pickaxe Crowbar	Aggregate and soil test sampling, Field Density Test (FDT)	Course, Aggregate Surface Course
Concrete Mixer, Portable	Mixing of Fresh Concrete	Mix Products
Slump Test Set 1 - Slump Cone, Complete with base and tamping rod 1 - Trowel, Triangular or Rectangular blade, 90mmx180mm 1 - Scale	Concrete Slump Test	Fresh Concrete Mix
Mold, Steel, Cylinder, 150mmx300mm	Compression Test	Fresh Concrete Mix
Mold, Steel Beam, 150mmx150mmx500mm	Flexural Test	Fresh Concrete Mix
Vertical Capping Set 1 - Vertical Cylinder Capper with capping plate, 150mm diameter 1 - Capping compound warmer pot, 4-L cap. 1 - Capping laddle 1 - Carbon capping compound	Capping of concrete cylinder sample	Hardened Concrete
Thermometer, Metal, dial type, 0-250°C	Temperature Monitor of Concrete & Asphalt	Concrete & Asphalt mixes

Minimum Materials Testing Equipment for Large Contractors

Equipment	Tests	Materials/Products
Sieve, Std., 200 mm diameter, opening 75 mm (3") -ditto- 63 mm (2 1/2") -ditto- 50 mm (2") -ditto- 37.5 mm (1 1/2") -ditto- 25.0 mm (1") -ditto- 19.0 mm (3/4") -ditto- 12.5 mm (1/2") -ditto- 9.5 mm (3/8") -ditto- 4.75 mm (No.4) -ditto- 2.36 mm (No. 8) -ditto- 2.00 mm (No. 10) -ditto- 1.18 mm (No. 16) -ditto- 0.600 mm (No. 30)	Grading Test, PL-LL Test Soundness Test, Abrasion Test, Field Density Test, Specific Gravity	Excavated materials, Embankment, Fine/Coarse/Crushed Aggregate, Soil Aggregates, Aggregate Surface Course

Minimum Materials Testing Equipment for Large Contractors

Equipment	Tests	Materials/Products
-ditto- 0.425 mm (No. 40) -ditto- 0.300 mm (No. 50) -ditto- 0.150 mm (No. 100) -ditto- 0.075 mm (No. 200)		
Pan, Brass, 200mm dia. X 50 mm deep		
Cover, Brass, Sieve		
Brush, Fine Sieve		
Brush, Wire, Sieve		
Balance, Heavy Duty Solution, 20kg cap. (1g sensitivity)	Compaction Specific Gravity Test, Field Density Test (FDT)	Soil Analysis
Mortar, Soil, Porcelain, 125mm dia.		
Pestle, Soil, Rubber Tip		
Atterberg Limit Test Set 1 - Liquid Limit Device 1 - Mixing Dish 1 - Spatula, flexible 1 - Graduated Cylinder, glass, 100 ml 12 - Moisture Content can, 60 ml, tin	PL-II Tests	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Soil Aggregates, Aggregate Surface Course
Glass Plate, Plastic Limit		
Balance, Triple Beam, 311g cap. (0.01g sensitivity)	PL-LI Tests	Excavated Materials, Embankment, Soil Aggregates
	Specific Gravity Test	Excavated Materials, Embankment, Fine Aggregates,
Balance, Triple Beam, 2610g cap. (0.01g sensitivity)	Soundness Test, Field Density Test (FDT), Moisture Content	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Soil Aggregates, Aggregate Surface Course
	Specific Gravity Test	Excavated Materials, Embankment, Coarse Aggregates,
Hammer, Modified Compaction	Laboratory Compaction	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Stabilized Road Mix Base Course, Treated Plant Mix Base Course
Mold, Compaction, 101.6 mm diameter x 116.4 mm height		

Minimum Materials Testing Equipment for Large Contractors

Equipment	Tests	Materials/Products
Moisture Content Can, 225mL, tin	Laboratory Compaction	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Stabilized Road Mix
	Field Density Test (FDT)	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base Course, Compacted Subbase Course, Aggregate Surface Course
Concrete Measure 0.014 cu.m. cap. (1/2 cu.ft.)	Unit Weight	Concrete Aggregate
Straight Edge, Steel 300mm long	Laboratory Compaction	Soil Aggregate
CBR Apparatus complete with accessories (Mechanical)	Determination of California Bearing Ratio	Fine/Coarse/Crushed Aggregates, Stabilized Road Mix Base Course, Treated Plant Mix Base Course, Aggregate Surface Course
Field Density Test Set 1 - Sand Density Cone 1 - Jug, Glass or Plastic, 4-L capacity 1 - Density Plate 1 - Straight Edge 1 - Spoon 1 - 25 mm Chisel, Steel 1 - 4-L Field Can 1 - Mallet, rubber 1 - Scoop, sand	Field Density Test (FDT)	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base Course, Aggregate Surface Course
Auger, Post Hole, with two-m extension	Soil Sampling	Disturbed Soil Sampling
Cylinder, Glass, Double Graduated, 500ml. cap. Bowl, Mixing, 250mm dia.x90mm high Pan, Square, G.I. 600mmx600mmx75mm Spade or Shovel Pickaxe Crowbar	PL-LL Test Aggregate and soil test sampling, Field Density Test	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base Course, Compacted Subbase Course, Aggregate Surface Course
Concrete Mixer, Portable	Mixing of Fresh Concrete	Fresh Concrete Mix
Slump Test Set 1 - Slump Cone, Complete with base and tamping rod 1 - Trowel, Triangular or Rectangular blade, 90mmx180mm 1 - Scale	Concrete Slump Test	Fresh Concrete Mix
Mold, Steel, Cylinder, 150mmx300mm	Compression Test	Fresh Concrete Mix
Mold, Steel Beam, 150mmx150mmx500mm	Flexural Test	Fresh Concrete Mix

Minimum Materials Testing Equipment for Large Contractors

Equipment	Tests	Materials/Products
Vertical Capping Set 1 – Vertical Cylinder Capper with capping plate, 150mm diameter 1 - Capping compound warmer pot, 4-L cap. 1 - Capping ladle 1 – Carton capping compound	Capping of concrete cylinder sample	Hardened Concrete
Thermometer, Metal, dial type, 0-250°C	Temperature Monitor of Concrete & Asphalt	Concrete & Asphalt Mixes
Volumetric flask 500 ml cap. With stopper	Specific Gravity of Sand	Sand
Sand Absorption Cone and Tamper		
Specific Gravity Test Set or Coarse Aggregate 1 - Semi-automatic precision balance 5kg cap., 0.1g sensitivity 1 - Wire basket	Bulk Specific Gravity	Aggregates of Bituminous Mix, Asphalt Core, Fine/Coarse Aggregates,
Los Angeles Abrasion Machine complete with abrasive steel and #12sieve	Abrasion Test of Aggregates	Coarse/Crushed Aggregates, Soil Aggregates, Aggregate Surface Course,
Oven, Field, with temperature control	Field Density Test (FDT)	Excavated Materials, Embankment, Fine/Coarse/Crushed Aggregates, Compacted Base Course, Compacted Subbase Course, Aggregate Surface Course
Compression Machine, portable	Compression Test	Fresh Concrete Mix
Concrete Beam Tester, Flexural	Flexural Test	Fresh Concrete Mix
Concrete Core Drilling Machine complete with accessories	In-situ Test for Concrete/Asphalt Pavement	Concrete/Asphalt Pavement
Extractor, Centrifuge or Reflux, 1500g cap.	Extraction	Bituminous Mix
Carbon Tetrachloride	Asphalt Content/ Grading of Aggregates	Asphalt/Aggregate Materials in Bituminous Mix
Marshall Stability Apparatus complete with accessories	Marshall Stability Test/ Job mix of Asphalt	Asphalt Mix

Activity	Responsible Performer	Time Frame	Rules
		bids receipt	clarify items in the agenda and respond to queries/ comments from bidders. The BAC-Sec shall record the proceedings by audio facilities and manually.
4. Prepare the Minutes of the PBC	BAC-Sec	< 3 cd after PBC	Use **Form DPWH-INFR-26.**
5. Receive written requests for clarification before/after the PBC from prospective bidders	BAC-Sec	≤10 cd before deadline for bids receipt	
6. Prepare Bid Bulletins, if any, (a) based on the PBC, or (b) in response to written request for clarification from a bidder, or (c) at the initiative of the BAC	BAC-TWG with IU and BAC-Secretariat	≤2 cd after PBC & ≤7 cd before deadline for bids receipt	Issued (a) in accordance with PBC discussions, (b) in response to written requests for clarification, and (c) at the initiative of the BAC to clarify or modify any provision of the **BDs**. Use **Form DPWH-INFR-27**
7. Approve Bid Bulletins	BAC	<7 cd before deadline for bids receipt	
8. Sign the Minutes of PBC	BAC Chairman	≤3 cd after PBC and <7 cd before deadline for bids receipt	
9. Issue signed Minutes of PBC and Bid Bulletins	BAC-Secretariat	≤3 cd after signing	Send to all eligible bidders and PBC participants
10. Post Bid Bulletins on websites of DPWH and PhilGEPS	BAC-Sec upon request	1 cd after signing	
Total		**13 cd**	

5.6 RECEIPT OF BIDS, OPENING AND PRELIMINARY EXAMINATION OF BIDS, AND ELIGIBILITY CHECK

5.6.1 Legal Reference

IRR Section 23 sets the rules pertaining to eligibility check, **Section 25** defines the rules for submission and receipt of bids, and **Sections 29 to 31** prescribe the rules for opening and preliminary examination of bids.

5.6.2 Receipt of Bids

The Bidders should prepare their bids strictly in accordance with the requirements of the **ITB** and **BDS** as discussed in Sections 4.10 and 4.11 and **ANNEXES II-1.1D and IA-1.1E** of this **DPM Volume II**. These include the prescribed contents and forms of the Technical and Financial Components comprising each bid **(Form DPWH-INFR-09)**, which are recapitulated below:

a. Technical Component This shall include the following:

(1) PhilGEPS Certificate of Registration and Membership in accordance with **Section 8.5.2 of the IRR**.

(2) a. If the bidder is not previously enrolled in the CWR: the bidder's Class "A" and Class "B" Documents not covered by the PhilGEPS Certificate, in accordance with Section 4.8.2 of this **DPM Volume II**. These Documents should include, among others, the following information required in **IRR Section 25.2b**:

i. Valid PCAB License or special PCAB License in case of joint ventures, and registration for the type and cost of the contract to be bid.

ii. Statement of all On-going Government and Private , including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid.

ii. Statement identifying the Bidder's SLCC similar to the contract to be bid.

iii NFCC Computation and Statement of Total Assets and Total Liabilities

iv. JVA, if applicable

b. If the bidder is previously enrolled in the CWR but would like to update any of its Class "A" and Class "B" Documents in the CWR: the pertinent Documents to be updated.

(3) Bid Security in the prescribed form, amount and validity period **(Form DPWH-INFR-10, DPWH-INFR 11, or DPWH-INFR-12)**.

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

a. Contractor's organizational chart for the contract to be bid **(Form DPWH-INFR-13)**.

b. List of contractor's key personnel – e.g., Project Manager, Project Engineers, Materials Engineers, Construction Safety Officer, and Foremen - to be assigned to the contract, with their complete qualification and experience data **(Form DPWH-INFR-14)**. These personnel must meet the required minimum years of experience set in the **BDS**.

c. List of contractor's major construction and laboratory equipment units to be used for the contract – which are owned, leased, and/or under purchase agreements, supported by certification of availability of the equipment from

the equipment lessor/vendor for the duration of the project **(Form DPWH-INFR-15)**. These equipment units must meet the minimum major equipment requirements for the contract set in the **BDS**.

d. Omnibus sworn statement by the prospective bidder or its duly authorized representative as to the following, using **Form DPWH-INFR-16 (IRR Section 25.3)**:

i It is not "blacklisted" or barred from bidding by the government or any of its agencies, offices, corporations, or local government units (LGUs), including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB.

ii. 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.

iii. It is authorizing the HoPE or his duly authorized representative(s) to verify all the documents submitted.

iv. The signatory is the duly authorized representative of the prospective bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the prospective bidder in the biding, with the duly notarized Secretary's Certificate attesting to such fact, if the prospective bidder is a corporation, or duly notarized Special Power of Attorney in case of sole proprietorship, partnership or joint venture.

v. It complies with the disclosure provision under Section 47 of RA 9184 in relation to the provisions of RA 3019.

vi. It complies with the responsibilities of a bidder provided in the **BDs**.

vii. It complies with existing labor laws and standards.

viii. It did not give or pay any, 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 or activity.

i. Financial Component

(1) Bid Form indicating the Total Bid Price, using **Form DPWH INFR-09**.

(2) Bid prices in the **Bill of Quantities (BOQ) (Forms DPWH-INFR-16 and DPWH-INFR-18).**

(3) Detailed estimates.

(4) Cash flow by quarter **(Form DPWH-INFR-19)**.

The concerned BAC shall receive from the Bidders their bids in two (2) separate sealed bid envelopes which shall be submitted simultaneously. The first envelope shall contain the Technical Proposal, and the second envelope shall contain the Financial Proposal.

5.6.3 Time Frame for Receipt of Bids

Bids should be received by the BAC on or before the specified time and date of the deadline stated in the **BDs**, and within the following maximum periods from the date of advertisement of the **IB** up to the deadline for the receipt of bids (**IRR Section 25.5**):

Table 13. Allowable Time for the Receipt of Bids

Approved Budget for the Contract, in Pesos	Period from Date of IB Advt up to Deadline for Bids Receipt
Fifty (50) million and below	50 calendar days
Above fifty (50) million	65 calendar days

Bids submitted after the specified deadline shall not be received by the BAC. The BAC shall record in the minutes the bidder's name, its representative, and the time the late bid was submitted **(IRR Section 25.5)**.

To ensure transparency and accurate presentation of the bids submission, the BAC, through its Secretariat, shall notify, in writing, all bidders whose bids it has received. The notice shall be issued within seven (7) calendar days from the date of bid opening **(IRR Section 25.6)**.

The original copy of the Bid Form shall be typed or written in ink and shall be signed by the bidder or its duly authorized representative **(IRR Section 25.7)**.

Bid envelopes that are not properly sealed and marked, as required in the BDs, shall not be rejected, but the bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC or the Procuring Entity shall assume no responsibility for the misplacement of the contents of the unsealed or improperly marked bid, or for its premature opening **(IRR Section 25.8)**.

In case of unforeseeable or unavoidable circumstances, the BAC may re-schedule the deadline for the receipt and opening of bids through the issuance of a Bid Bulletin, which shall be posted in the DPWH and PhilGEPS websites and at any conspicuous place for the purpose at least one (1) day before the new schedule.

5.6.4 Modification and Withdrawal of Bids

A bidder shall be allowed to modify its bid, provided that this is done before the deadline for the submission and receipt of bids. Where a bidder modifies its bid, it shall not be allowed to retrieve its original bid, but shall only be allowed to send another bid equally sealed, properly identified, linked to its original bid and marked as a "modification," thereof, and stamped "received" by the BAC. Bid modifications submitted after the applicable deadline shall not be considered and shall be returned to the bidder unopened.

A bidder may, through a letter, be allowed to withdraw its bid before the deadline for the receipt of bids. Withdrawal of bids after the applicable deadline shall be subject to appropriate sanctions

Department of Public Works and Highways

Contract ID:
Contract Name:
Location of the Contract:

LIST OF CONTRACTOR'S MAJOR CONSTRUCTION AND LABORATORY EQUIPMENT UNITS TO BE ASSIGNED TO THE CONTRACT, SUPPORTED BY CERTIFICATIONS OF AVAILABILITY

Business Name
Business Address

Description	Model/Year	Capacity / Performance / Size	Plate No.	Motor No. / Body No.	Location	Condition	Proof of Ownership / Lease/Purchase
A. Owned[1]							
i.							
ii.							
iii.							
iv.							
v.							
B. Leased[2]							
i.							
ii.							
iii.							
iv.							
v.							
C. Under Purchase Agreements[3]							
i.							
ii.							
iii.							
iv.							
v.							

[1] Attached are copies of sales invoices / Registration Certificates from LTO.
[2] Attached are the certifications from the lessors that the equipment units under B (Leased) shall be available for this contract.
[3] Attached are the certifications from the vendors that the equipment units under C (Purchase Agreements) shall be available for this contract.

Minimum major construction equipment requirements as prescribed in the Bid Data Sheet

Minimum major laboratory equipment requirements as prescribed in Bid Data Sheet:

Name and Signature of Bidder's Representative
Position
Name of Bidder

Date:

09-01473
0997.13 DPWH
09-24-2020

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

SEP 2 4 2020

DEPARTMENT ORDER)
)
NO. 87)
Series 2020 09.24.2020)

SUBJECT: Electronic Submission and Receipt of Bids for the Procurement of Civil Works Contracts

Consistent with Government Procurement Policy Board (GPPB) Resolution 09-2020 entitled: "Approving Measures for the Efficient Conduct of Procurement Activities during a State of Calamity, or Implementation of Community Quarantine or Similar Restrictions" issued on May 7, 2020, authorizing submission and receipt of bids through electronic means, and in recognition of the need to ensure the safety, health, and welfare of the Department's officials and employees, and the general public without however disrupting the continuous delivery of essential public services especially during the State of Public Health Emergency brought about by the COVID-19 pandemic, the DPWH hereby adopts the herein attached Guidelines for the Electronic Submission and Receipt of Bids ("Guidelines")[1].

The subject Guidelines shall cover the procurement of Civil Works Projects (Infrastructure Projects) in the Central, Regional, and District Engineering Offices of the DPWH and shall take effect on the date indicated herein, unless amended or revised, as may be necessary.

For the information and guidance of all concerned.

MARK A. VILLAR
Secretary

Department of Public Works and Highways
Office of the Secretary
WIN0XR01385

[1] Copy attached as Annex "A"

A20-1366
DN: 02214

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

GUIDELINES ON THE ELECTRONIC SUBMISSION AND RECEIPT OF BIDS

I. INTRODUCTION

Consistent with GPPB Resolution No. 09-2020, entitled: *Approving Measures for the Efficient Conduct of Procurement Activities During a State of Calamity, or Implementation of Community Quarantine or Similar Restrictions, authorizing an online or electronic bid submission* and the 2016 Revised Implementing Rules and Regulations (RIRR) of Republic Act (R.A.) 9184, this Department developed a system for the electronic submission and receipt of bids. The said system shall allow bidders seeking to participate in the Department's procurement activities to submit their bids to the Head of the BAC Secretariat of each Procuring Entity online thru electronic mail (e-mail).

II. ADVERTISEMENT

a. A dedicated e-mail address per Procuring Entity (District/Regional/Central Office) will be assigned (refer to Appendix 1) where electronic bids shall be submitted/received. The said e-mail address must be specified in the Invitation to Bid and the corresponding Bidding Documents of the Contract which allows electronic submission of bids.

b. Upon posting of the Invitation to Bid and Bidding Documents in the DPWH/PhilGEPS websites and a conspicuous place pursuant to Section 21 of the RIRR of R.A. 9184, the BAC Secretariat shall create a folder in the Electronic Bid Submission and Receipt SharePoint Site ("eBid Portal") for the Contract ID allowing electronic submission of bids. The folder name should be consistent with the Contract ID scheme provided under D.O. No. 33, Series of 2018.

III. PREPARATION AND SUBMISSION OF BIDS

a. Prior to the deadline of submission of bids, the bidder shall send a copy of the Official Receipt of purchase of bidding documents in Portable Document File (PDF) format with the filename "<PCAB ID>_<CONTRACT ID>_OfficialReceipt.pdf" to the e-mail address identified in the Invitation to Bid and Bid Data Sheet, with a properly labelled subject "Official Receipt for <Contract ID>". For example, the filename of the attached PDF containing the Official Receipt of the Contractor with PCAB ID No. 12345, who is intending to participate in the bidding of Contract ID No. 20Z00123 shall be "12345_20Z00123_OfficialReceipt.pdf". Further, the e-mail subject would be "Official Receipt for 20Z00123". Only bidders with system accepted proof of payment shall be allowed to submit their electronic bids, which shall not be beyond the deadline specified for the submission of bids. The Head of the BAC Secretariat shall be responsible for the confidentiality of the submitted documents and integrity of the submission process.

b. An auto-reply e-mail shall be sent to the bidder after successfully sending the Official Receipt to the proper e-mail address.

c. An auto-reply e-mail shall also be sent to acknowledge receipt of the Official Receipt in instances where an e-mail is sent:

   i. With incorrect subject Contract ID, which means that a corresponding folder with the same Contract ID does not exist in the eBid Portal;

   ii. Without any attachment;

   iii. With attachment that is not in the prescribed format;

   iv. With more than one (1) attachment; or

   v. After the deadline.

d. Bidders must prepare the electronic bid in a password-protected archive format and submit it to the e-mail address identified in the Invitation to Bid and Bid Data Sheet *(Section 25.1 of the RIRR of R.A. 9184 and Section 4.2.a of GPPB Resolution No. 09-2020)*.

e. The submitted electronic bid (main archive file) shall contain two (2) files: the technical and financial proposal, both in a password-protected archive format.

f. Bidders must submit their electronic bid using the registered e-mail address in the Civil Works Application (CWA). However, for bidders not enrolled in the CWA, any e-mail can be used provided that the BAC shall verify the legitimacy of the e-mail and immediately after the opening of bids, submit all its Class "A" and Class "B" documents to the Procurement Service for CWA enrollment and reprocessing of electronic eligibility check, pursuant to Item D.3. and D.4. of D.O. 117, Series of 2017.

g. All files in the technical and financial proposal must be in a PDF format.

h. Due to restrictions in the allowable file size (in Megabytes (MB)) of attachments by e-mail service providers (e.g. Gmail, Yahoo Mail, Microsoft Outlook), the total file size of the electronic bid and other attachments shall likewise be subject to the corresponding size limitation of the e-mail service provider used by the bidder. If the total file size is greater than the limit of the e-mail service provider, the archive must be split and e-mailed separately, using the same format provided in Item III.i. and III.m. hereof.

i. The e-mail's subject for submitting an electronic bid shall be labelled as "Bid Submission for <Contract ID>". For example, the e-mail subject for electronic bid submission for Contract ID No. 20Z00123 would be "Bid Submission for 20Z00123". If the archive is split into two (2) and e-mailed separately, the e-mail subjects should be "Bid Submission 1/2 for 20Z00123" and "Bid Submission 2/2 for 20Z00123".

j. Bid modification is allowed only before the deadline of submission and receipt of bids. In which case, the bidder shall send thru e-mail the revised bid, equally secured, properly identified, and labelled with the subject "Bid Modification X for <Contract ID>". Where "X" represents the number of bid modification submitted. For example, the e-mail subject for the first bid modification for Contract ID No. 20Z00123 would be "Bid Modification 1 for 20Z00123".

k. In case of non-participation, the Bidder shall send a letter of non-participation before the deadline of submission and receipt of bids via e-mail with a properly labelled subject "Non-participation for <Contract ID>" and filename "<PCAB ID>_<CONTRACT ID>_Non-Participation.pdf". For example, the e-mail subject for the submission of letter of non-participation of the Contractor with PCAB ID No. 12345 for Contract ID No. 20Z00123 shall be "Non-Participation for 20Z00123", and the attached PDF shall have the filename "12345_20Z00123_Non-Participation.pdf".

l. In case of withdrawal of bid, the same shall be allowed only before the deadline of submission and receipt of bids. To withdraw the bid, the bidder shall send an e-mail with proper subject, "Bid Withdrawal for <Contract ID>". The letter of bid withdrawal in PDF format shall be attached in the e-mail and use the filename "<PCAB ID>_<CONTRACT ID>_BidWithdrawal.pdf". For example, the e-mail subject for the withdrawal of bid for Contract ID No. 20Z00123 would be "Bid Withdrawal for 20Z00123" and the attached letter of bid withdrawal of the Contractor with PCAB ID No. 12345 shall have a filename of "12345_20Z00123_BidWithdrawal.pdf".

m. Electronic Bid Submission Naming Convention

i. **Files**

All files must be in PDF format regardless if scanned or exported/published.

<PCAB ID>_<CONTRACT ID>_DescriptiveFilename.pdf

ii. **Folders**

Similar to the manual submission of bids, individual files must be organized in two (2) folders.

<PCAB ID>_<CONTRACT_ID>_TECHNICAL
<PCAB ID>_<CONTRACT_ID>_FINANCIAL

For bid modification, individual files must be organized in two (2) folders:

<PCAB ID>_<CONTRACT ID>_TECHNICAL_Modification_X
<PCAB ID>_<CONTRACT ID>_FINANCIAL_Modification_X
(Where X represents the number of bid modifications)

iii. **Archive**

The folders must be archived/compressed and password-protected.

<PCAB ID>_<CONTRACT_ID>_TECHNICAL.zip (or .rar/.7z)
<PCAB ID>_<CONTRACT_ID>_FINANCIAL.zip (or .rar/.7z)

The Technical and Financial archive files must be archived/compressed and password-protected into one (1) file.

<PCAB ID>_<CONTRACT_ID>_Bid.zip (or .rar/7z)

For bid modification, the folders must be archived/compressed and password-protected.

<PCAB ID>_<CONTRACT ID>_TECHNICAL_Modification_X.zip (or .rar/7z)
<PCAB ID>_<CONTRACT ID>_FINANCIAL_Modification_X.zip (or .rar/7z)
(Where X represents the number of bid modifications)

The TECHNICAL_Modification_X and FINANCIAL_Modification_X archive files must be archived/compressed and password-protected into one (1) file.

<PCAB ID>_<CONTRACT ID>_Bid_Modification_X.zip (or .rar/7z)
(Where X represents the number of bid modifications)

iv. For Joint Venture (JV), the format of PCAB ID to be used by the bidder in naming their files, folders and archives shall be "JV-<PCAB ID of the Lead Member>". For example, if three (3) Contractors with PCAB ID Nos. 12345 (lead member), 67890, and 24680 entered into a JV, the PCAB ID they must use is "JV-12345".

n. Prospective bidders, who submit their bids electronically, shall not be allowed to submit bids manually. Bid modification can be submitted electronically or manually, regardless of the manner by which the original bid was submitted. If a bidder submitted modifications both electronically and manually for a specific Contract, the submission with the latest official date and time of receipt shall prevail.

o. In case a bidder intended to participate in a bidding and purchased Bidding Documents as JV ("original bidder") but later on decided to drop a member/s ("regrouped bidder"), or vice versa, the BAC shall be duly informed of the said change and the corresponding Official Receipt named after the regrouped bidder must be acquired and presented to the BAC prior to the submission of bid. In case the bid is submitted electronically, the regrouped bidder who initially submitted an Official Receipt named after the original bidder shall be required to resubmit an Official Receipt which reflects the name of the regrouped bidder pursuant to Item III.a. hereof, before being allowed to submit an electronic bid.

IV. RECEIPT OF BIDS

a. An auto-reply e-mail shall be sent to the bidder after successfully sending the electronic bid to the proper e-mail address of the Procuring Entity concerned. The auto-reply e-mail shall serve as the Bid Receipt which can be saved and/or printed by the bidder *(Section 5.3 of GPPB Resolution No. 09-2020).*

b. The time indicated in the latest auto-reply e-mail (Bid Receipt) shall be the official time of submission. Bids submitted after the deadline shall not be accepted *(Section 5.4 GPPB Resolution No. 09-2020).*

c. An auto-reply e-mail shall also be sent to acknowledge receipt of electronic bids in the cases enumerated in Item III.c. of this Guidelines, and likewise for an e-mail regarding withdrawal of bid, non-participation, or the bidder has yet to submit proof of purchase of bidding documents (Official Receipt).

d. The files attached in the e-mail, including those that are not in the prescribed format, shall be automatically transferred to the folder in the eBid Portal that matches the Contract ID and the bidder's PCAB ID as indicated in the e-mail subject and filename of the attached file, respectively. However, the following will not be accepted:

   i. Submission of Bid without initially submitting the proof of purchase of bidding documents;
   ii. Submission of Bid after the deadline; and
   iii. Submission of proof of purchase of bidding documents after the deadline.

e. Files that are part of an e-mail with more than one (1) attachment, invalid subject Contract ID and unrecognized transactions (e.g. Typo in the e-mail subject and filename) will be stored in the respective subfolders under the UNIDENTIFIED_DOCUMENTS subfolder in the Procuring Entity's main folder in the eBid Portal.

f. The system shall add a timestamp in the format "YYYYMMDD_hhmmss" at the end of the filename of the received files, which represents the date and time when the bidder's e-mail was received.

g. On the deadline of submission and receipt of bids, the BAC Secretariat shall officially close the Contract ID folder of the Contract under bidding in the eBid portal by renaming the project folder to "<Contract ID>_CLOSED".

V. OPENING OF BIDS

a. The BAC Secretariat must download the electronic bid from the eBid Portal and open it using the password provided by the bidder during the actual bid opening *(Section 4.2.b of GPPB Resolution No. 09-2020).* The password shall only be disclosed by the bidders verbally or in writing, during the actual bid opening which may be done in person, or through videoconferencing, webcasting or other similar technology available.

b. As an additional security feature, downloading of submitted electronic bids and other attachments directly from the e-mail shall be disabled, and will be allowed only thru the eBid Portal.

c. The password-protected archived file (electronic bid, technical proposal and financial proposal) submitted must be opened using the password provided by the bidder in the manner referred to in Item V.a. hereof, and must be successfully opened/accessed by the BAC. Bidders shall be given a maximum of three (3) attempts or a period of fifteen (15) minutes, whichever comes first, to provide the correct password, except in unforeseen justifiable circumstances. Otherwise, the bidder shall be disqualified. The bidder may also be subjected to the sanctions under D.O. 17, Series of 2015 (3-Strike Policy), as may be warranted under the circumstances.

d. For a hybrid system of submission where electronic and manual bids were received for a particular Contract, electronic bids must be opened first before the manual bids. The same applies to the Technical and Financial archive files in electronic bids, which shall be opened prior to the Technical and Financial Envelopes in the manual bids. In all cases, measures under Section 30 of the RIRR of R.A. 9184 shall be observed.

e. If an electronic bid or file was found to be damaged and could not be extracted/opened, the bid shall be considered "Failed".

f. If a bidder committed typographical errors in the submission of electronic bid, and/or attached files in the wrong format (e.g. not password-protected), the bid shall be accepted, provided that the bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC shall assume no responsibility for the misplacement of the contents of the improperly sealed or marked bid, or improperly compressed or password-protected folder, or for its premature opening.

VI. In case of non-participation and withdrawal of bids, the BAC secretariat shall check the letters of non-participation/bid withdrawal received in the dedicated e-mail address and stored in the eBid Portal, and shall observe the provisions under Section 26.2. of the RIRR of R.A. 9184 and D.O. 17, Series of 2015 (3-Strike Policy).

VII. AUDIT TRAIL

a. The IMS shall provide the BAC Secretariat with a copy of the activity log from the e-mail address and eBid Portal, starting from the date when a bid was submitted via e-mail up to the bid opening date for a specific Contract ID.

b. The IMS shall backup the eBid Portal including the activity logs.

APPENDIX 1

Procuring Entity	Email Address for Electronic Submission and Receip
Central Office	
Central Office - Civil Works	electronicbids_co_civilworks
Central Office - Consultancy	electronicbids_co_consultingservices
Central Office - Goods and Services	electronicbids_co_goodsandservices
National Capital Region	electronicbids_ncr
Las Piñas-Muntinlupa District Engineering Office	electronicbids_laspinasmuntinlupa
Malabon-Navotas District Engineering Office	electronicbids_malabonnavotas
Metro Manila 1st District Engineering Office	electronicbids_metromanila1
Metro Manila 2nd District Engineering Office	electronicbids_metromanila2
Metro Manila 3rd District Engineering Office	electronicbids_metromanila3
North Manila District Engineering Office	electronicbids_northmanila
Quezon City 1st District Engineering Office	electronicbids_quezoncity1
Quezon City 2nd District Engineering Office	electronicbids_quezoncity2
South Manila District Engineering Office	electronicbids_southmanila
Cordillera Administrative Region	electronicbids_car
Abra District Engineering Office	electronicbids_abra
Apayao 1st District Engineering Office	electronicbids_apayao1
Apayao 2nd District Engineering Office	electronicbids_apayao2
Baguio City District Engineering Office	electronicbids_baguiocity
Benguet 1st District Engineering Office	electronicbids_benguet1
Benguet 2nd District Engineering Office	electronicbids_benguet2
Ifugao 1st District Engineering Office	electronicbids_ifugao1
Ifugao 2nd District Engineering Office	electronicbids_ifugao2
Lower Kalinga District Engineering Office	electronicbids_lowerkalinga
Mountain Province 2nd District Engineering Office	electronicbids_mtprovince2
Mt. Province District Engineering Office	electronicbids_mtprovince
Upper Kalinga District Engineering Office	electronicbids_upperkalinga
Region I	electronicbids_r1
Ilocos Norte 1st District Engineering Office	electronicbids_ilocosnorte1
Ilocos Norte 2nd District Engineering Office	electronicbids_ilocosnorte2
Ilocos Sur 1st District Engineering Office	electronicbids_ilocossur1
Ilocos Sur 2nd District Engineering Office	electronicbids_ilocossur2
La Union 1st District Engineering Office	electronicbids_launion1
La Union 2nd District Engineering Office	electronicbids_launion2
Pangasinan 1st District Engineering Office	electronicbids_pangasinan1
Pangasinan 2nd District Engineering Office	electronicbids_pangasinan2
Pangasinan 3rd District Engineering Office	electronicbids_pangasinan3
Pangasinan 4th District Engineering Office	electronicbids_pangasinan4
Region II	electronicbids_r2
Batanes District Engineering Office	electronicbids_batanes
Cagayan 1st District Engineering Office	electronicbids_cagayan1
Cagayan 2nd District Engineering Office	electronicbids_cagayan2
Cagayan 3rd District Engineering Office	electronicbids_cagayan3
Isabela 1st District Engineering Office	electronicbids_isabela1
Isabela 2nd District Engineering Office	electronicbids_isabela2
Isabela 3rd District Engineering Office	electronicbids_isabela3
Isabela 4th District Engineering Office	electronicbids_isabela4
Nueva Vizcaya District Engineering Office	electronicbids_nuevavizcaya
Nueva Vizcaya 2nd District Engineering Office	electronicbids_nuevavizcaya2
Quirino District Engineering Office	electronicbids_quirino

Region III	electronicbids_r3
Aurora District Engineering Office	electronicbids_aurora
Bataan 1st District Engineering Office	electronicbids_bataan1
Bataan 2nd District Engineering Office	electronicbids_bataan2
Bulacan 1st District Engineering Office	electronicbids_bulacan1
Bulacan 2nd District Engineering Office	electronicbids_bulacan2
Nueva Ecija 1st District Engineering Office	electronicbids_nuevaecija1
Nueva Ecija 2nd District Engineering Office	electronicbids_nuevaecija2
Pampanga 1st District Engineering Office	electronicbids_pampanga1
Pampanga 2nd District Engineering Office	electronicbids_pampanga2
Pampanga 3rd District Engineering Office	electronicbids_pampanga3
Tarlac 2nd District Engineering Office	electronicbids_tarlac2
Tarlac District Engineering Office	electronicbids_tarlac
Zambales 1st District Engineering Office	electronicbids_zambales1
Zambales 2nd District Engineering Office	electronicbids_zambales2
Region IV-A	electronicbids_r4a
Batangas 1st District Engineering Office	electronicbids_batangas1
Batangas 2nd District Engineering Office	electronicbids_batangas2
Batangas 3rd District Engineering Office	electronicbids_batangas3
Batangas 4th District Engineering Office	electronicbids_batangas4
Cavite 1st District Engineering Office	electronicbids_cavite1
Cavite 2nd District Engineering Office	electronicbids_cavite2
Cavite 3rd District Engineering Office	electronicbids_cavite3
Laguna 1st District Engineering Office	electronicbids_laguna1
Laguna 2nd District Engineering Office	electronicbids_laguna2
Laguna 3rd District Engineering Office	electronicbids_laguna3
Quezon 1st District Engineering Office	electronicbids_quezon1
Quezon 2nd District Engineering Office	electronicbids_quezon2
Quezon 3rd District Engineering Office	electronicbids_quezon3
Quezon 4th District Engineering Office	electronicbids_quezon4
Rizal 1st District Engineering Office	electronicbids_rizal1
Rizal 2nd District Engineering Office	electronicbids_rizal2
Region IV-B	electronicbids_r4b
Marinduque District Engineering Office	electronicbids_marinduque
Mindoro Occidental District Engineering Office	electronicbids_mindorooccidental
Mindoro Oriental District Engineering Office	electronicbids_mindorooriental
Palawan 1st District Engineering Office	electronicbids_palawan1
Palawan 2nd District Engineering Office	electronicbids_palawan2
Palawan 3rd District Engineering Office	electronicbids_palawan3
Romblon District Engineering Office	electronicbids_romblon
Southern Mindoro District Engineering Office	electronicbids_southernmindoro
Region V	electronicbids_r5
Albay 1st District Engineering Office	electronicbids_albay1
Albay 2nd District Engineering Office	electronicbids_albay2
Albay 3rd District Engineering Office	electronicbids_albay3
Camarines Norte District Engineering Office	electronicbids_camarinesnorte
Camarines Sur 1st District Engineering Office	electronicbids_camarinessur1
Camarines Sur 2nd District Engineering Office	electronicbids_camarinessur2
Camarines Sur 3rd District Engineering Office	electronicbids_camarinessur3
Camarines Sur 4th District Engineering Office	electronicbids_camarinessur4
Camarines Sur 5th District Engineering Office	electronicbids_camarinessur5
Catanduanes District Engineering Office	electronicbids_catanduanes
Masbate 1st District Engineering Office	electronicbids_masbate1
Masbate 2nd District Engineering Office	electronicbids_masbate2
Masbate 3rd District Engineering Office	electronicbids_masbate3
Sorsogon District Engineering Office	electronicbids_sorsogon
Sorsogon 2nd District Engineering Office	electronicbids_sorsogon2

Region VI	electronicbids_r6
Aklan District Engineering Office	electronicbids_aklan
Antique District Engineering Office	electronicbids_antique
Bacolod City District Engineering Office	electronicbids_bacolodcity
Capiz 1st District Engineering Office	electronicbids_capiz1
Capiz 2nd District Engineering Office	electronicbids_capiz2
Guimaras District Engineering Office	electronicbids_guimaras
Iloilo 1st District Engineering Office	electronicbids_iloilo1
Iloilo 2nd District Engineering Office	electronicbids_iloilo2
Iloilo 3rd District Engineering Office	electronicbids_iloilo3
Iloilo 4th District Engineering Office	electronicbids_iloilo4
Iloilo City District Engineering Office	electronicbids_iloilocity
Negros Occidental 1st District Engineering Office	electronicbids_negrosoccidental1
Negros Occidental 2nd District Engineering Office	electronicbids_negrosoccidental2
Negros Occidental 3rd District Engineering Office	electronicbids_negrosoccidental3
Negros Occidental 4th District Engineering Office	electronicbids_negrosoccidental4
Region VII	electronicbids_r7
Bohol 1st District Engineering Office	electronicbids_bohol1
Bohol 2nd District Engineering Office	electronicbids_bohol2
Bohol 3rd District Engineering Office	electronicbids_bohol3
Cebu 1st District Engineering Office	electronicbids_cebu1
Cebu 2nd District Engineering Office	electronicbids_cebu2
Cebu 3rd District Engineering Office	electronicbids_cebu3
Cebu 4th District Engineering Office	electronicbids_cebu4
Cebu 5th District Engineering Office	electronicbids_cebu5
Cebu 6th District Engineering Office	electronicbids_cebu6
Cebu City District Engineering Office	electronicbids_cebucity
Negros Oriental 1st District Engineering Office	electronicbids_negrosoriental1
Negros Oriental 2nd District Engineering Office	electronicbids_negrosoriental2
Negros Oriental 3rd District Engineering Office	electronicbids_negrosoriental3
Siquijor District Engineering Office	electronicbids_siquijor
Region VIII	electronicbids_r8
Biliran District Engineering Office	electronicbids_biliran
Eastern Samar District Engineering Office	electronicbids_easternsamar
Leyte 1st District Engineering Office	electronicbids_leyte1
Leyte 2nd District Engineering Office	electronicbids_leyte2
Leyte 3rd District Engineering Office	electronicbids_leyte3
Leyte 4th District Engineering Office	electronicbids_leyte4
Leyte 5th District Engineering Office	electronicbids_leyte5
Northern Samar 1st District Engineering Office	electronicbids_northernsamar1
Northern Samar 2nd District Engineering Office	electronicbids_northernsamar2
Samar 1st District Engineering Office	electronicbids_samar1
Samar 2nd District Engineering Office	electronicbids_samar2
Southern Leyte District Engineering Office	electronicbids_southernleyte
Tacloban City District Engineering Office	electronicbids_taclobancity
Region IX	electronicbids_r9
Isabela City District Engineering Office	electronicbids_isabelacity
Zamboanga City District Engineering Office	electronicbids_zamboangacity
Zamboanga del Norte 1st District Engineering Office	electronicbids_zamboangadelnorte1
Zamboanga del Norte 2nd District Engineering Office	electronicbids_zamboangadelnorte2
Zamboanga del Norte 3rd District Engineering Office	electronicbids_zamboangadelnorte3
Zamboanga del Sur 1st District Engineering Office	electronicbids_zamboangadelsur1
Zamboanga del Sur 2nd District Engineering Office	electronicbids_zamboangadelsur2
Zamboanga Sibugay 1st District Engineering Office	electronicbids_zamboangasibugay1
Zamboanga Sibugay 2nd District Engineering Office	electronicbids_zamboangasibugay2

Region X	**electronicbids_r10**
Bukidnon 1st District Engineering Office	electronicbids_bukidnon1
Bukidnon 2nd District Engineering Office	electronicbids_bukidnon2
Bukidnon 3rd District Engineering Office	electronicbids_bukidnon3
Cagayan de Oro City 1st District Engineering Office	electronicbids_cagayandeoro1
Cagayan de Oro City 2nd District Engineering Office	electronicbids_cagayandeoro2
Camiguin District Engineering Office	electronicbids_camiguin
Lanao del Norte 1st District Engineering Office	electronicbids_lanaodelnorte1
Lanao del Norte 2nd District Engineering Office	electronicbids_lanaodelnorte2
Misamis Occidental 1st District Engineering Office	electronicbids_misamisoccidental1
Misamis Occidental 2nd District Engineering Office	electronicbids_misamisoccidental2
Misamis Oriental 1st District Engineering Office	electronicbids_misamisoriental1
Misamis Oriental 2nd District Engineering Office	electronicbids_misamisoriental2
Region XI	**electronicbids_r11**
Compostela Valley District Engineering Office	electronicbids_compostelavalley
Davao City 2nd District Engineering Office	electronicbids_davaocity2
Davao City District Engineering Office	electronicbids_davaocity
Davao del Norte District Engineering Office	electronicbids_davaodelnorte
Davao del Sur District Engineering Office	electronicbids_davaodelsur
Davao Occidental District Engineering Office	electronicbids_davaooccidental
Davao Oriental 1st District Engineering Office	electronicbids_davaooriental1
Davao Oriental 2nd District Engineering Office	electronicbids_davaooriental2
Region XII	**electronicbids_r12**
Cotabato 1st District Engineering Office	electronicbids_cotabato1
Cotabato 2nd District Engineering Office	electronicbids_cotabato2
Cotabato City District Engineering Office	electronicbids_cotabatocity
Cotabato Sub-District Engineering Office	electronicbids_cotabatosub
Sarangani District Engineering Office	electronicbids_sarangani
South Cotabato 1st District Engineering Office	electronicbids_southcotabato1
South Cotabato 2nd District Engineering Office	electronicbids_southcotabato2
Sultan Kudarat 1st District Engineering Office	electronicbids_sultankudarat1
Sultan Kudarat 2nd District Engineering Office	electronicbids_sultankudarat2
Region XIII	**electronicbids_r13**
Agusan del Norte District Engineering Office	electronicbids_agusandelnorte
Agusan del Sur 1st District Engineering Office	electronicbids_agusandelsur1
Agusan del Sur 2nd District Engineering Office	electronicbids_agusandelsur2
Butuan City District Engineering Office	electronicbids_butuancity
Dinagat Islands District Engineering Office	electronicbids_dinagatisland
Surigao del Norte 1st District Engineering Office	electronicbids_surigaodelnorte1
Surigao del Norte 2nd District Engineering Office	electronicbids_surigaodelnorte2
Surigao del Sur 1st District Engineering Office	electronicbids_surigaodelsur1
Surigao del Sur 2nd District Engineering Office	electronicbids_surigaodelsur2

697.13 DP 24
09-18-2014

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE SECRETARY
Manila

SEP 17 2014

DEPARTMENT ORDER
NO. 98
Series of 2014

09.18.14

SUBJECT : Submission of Construction Safety and Health Program Approved by the Department of Labor and Employment (DOLE)

It has been observed that processing and approval of Civil Works contract for some Infrastructure Projects were delayed due to late submission by the contractor of the Construction Safety and Health Program approved by the DOLE as part of the contract documents required prior to contract approval as stipulated under Section 37.2.3.g. of the revised IRR of RA 9184, thus delaying the project implementation and greatly affecting the absorptive capacity of the Department.

Henceforth, in order to facilitate the implementation of infrastructure projects for timely completion and early benefits of the public and attaining compliance by the DPWH of the target absorptive capacity, the contractor may submit only a copy of the Construction Safety and Health Program duly received by the DOLE prior to the contract approval, provided that the approved Construction Safety and Health Program should be submitted by the contractor to the Implementing Office concerned during the implementation stage, but not later than on the date the contractor files claim for advance payment or first progress billing.

This Order takes effect immediately.

ROGELIO L. SINGSON
Secretary

Department of Public Works and Highways
Office of the Secretary
WIN4G00385

Responsive Bid, when the Treaty or International or Executive Agreement expressly allows submission of the PCAB license and registration for the type and cost of the contract to be as a pre-condition to the Notice of Award;

b) Posting of performance security in accordance with Section 39 of this IRR;

c) Signing of the contract as provided in Section 37.2 of this IRR; and

d) Approval by higher authority, if required, as provided in Section 37.3 of this IRR.[xx]

37.1.5. Contract award shall be made within the bid validity period provided in Section 26 of this IRR.[xi]

37.1.6. The BAC, through the Secretariat, shall post, within three (3) calendar days from its issuance, the Notice of Award in the PhilGEPS, the website of the procuring entity, if any, and any conspicuous place in the premises of the procuring entity.[xii]

37.2. *Contract Signing*

37.2.1. The winning bidder shall post the required Performance Security and enter into contract with the procuring entity within ten (10) calendar days from receipt by the winning bidder of the Notice of Award.[xiii]

37.2.2. The procuring entity shall enter into contract with the winning bidder within the same ten (10) day period provided that all the documentary requirements are complied with.[xiv]

37.2.3. The following documents shall form part of the contract:

a) Contract Agreement;
b) Bidding Documents;
c) Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents/statements submitted;
d) Performance Security;
e) Credit line in accordance with the provisions of this IRR, if applicable;
f) Notice of Award of Contract; and
g) Other contract documents that may be required by existing laws and/or the procuring entity concerned in the Bidding Documents, such as the construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the Department of Labor and Employment, and PERT/CPM for infrastructure projects.[xv]

37.3. *Contract Approval by Higher Authority*

When further approval of higher authority is required, the approving authority for the contract or his duly authorized representative shall be given a maximum of fifteen (15) calendar days from receipt thereof to approve or disapprove it. However, for infrastructure projects with an ABC of Fifty Million Pesos (P50,000,000) and below, the maximum period is five (5) calendar days. In the case of GOCCs, the concerned

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE SECRETARY
MANILA

26 MAY 2016

DEPARTMENT ORDER NO. 98 Series of 2016

SUBJECT : REVISED GUIDELINES ON THE ACCREDITATION OF CONTRACTORS'/ CONSULTANTS' MATERIALS ENGINEERS

To ensure that only qualified and competent materials engineers will be assigned by contractors and consultants to DPWH projects despite the significant increase in the number of projects to be implemented by the Department, these Revised Guidelines on the Accreditation of Contractors'/Consultants' Materials Engineers are hereby prescribed.

1.0 CRITERIA FOR ACCREDITATION

The following criteria shall be applied in the evaluation for accreditation of Contractors'/Consultants' Materials Engineers:

1.1 Minimum Requirement

As a minimum requirement for accreditation of materials engineers, the applicant must be a registered and licensed Civil Engineer. This minimum requirement may be extended to foreign applicants.

1.2 Written Examination

A written examination shall be administered to all the applicants. The raw score obtained in the examination shall be converted to percentage (100% maximum) to obtain the total score for accreditation.

1.3 Practical Examination

Practical examination shall be administered to an accredited Materials Engineer I applying for upgrading to Materials Engineer II. It shall be conducted at the Bureau of Research and Standards (BRS) Office in Quezon City or at a selected/identified DPWH Regional Office.

1.4 DPWH Engineers and other government engineers are prohibited from taking the examination for the accreditation of Contractors'/Consultants Materials Engineers to prevent private entities from engaging the services of the former while still employed by the government.

1.5 Accredited DPWH Materials Engineers who retired or decided to leave DPWH may be considered as Contractors'/Consultants' Materials Engineers corresponding to their rank upon request.

1.6 Other government engineers who were previously accredited as Contractors'/ Consultants' Materials Engineers but whose accreditations were revoked per Department Order No. 60, Series of 2003 may be reinstated as Contractors'/Consultants' Materials Engineers corresponding to their rank after separation from the government service upon their request, subject to the approval of the Secretary upon recommendation of the Accreditation Committee.

2.0 PROCEDURE FOR ACCREDITATION

2.1 Accreditation Requirements

Upon application for accreditation, the following must be submitted to the Accreditation Committee, thru the Chief of the Quality Assurance and Hydrology Division of any DPWH Regional Office.

a. Duly accomplished application form that can be downloaded through DPWH Website (www.dpwhnet.gov.ph) or can be secured from any DPWH Regional Office.

b. Photo copy of Professional Regulation Commission (PRC) identification card.

c. Two (2) passport size (2" x 2") photographs, one of which should be pasted in the application form.

2.2 Accreditation Examination

a. An accreditation examination shall be administered to all qualified applicants. Two (2) examinations per year to be held on the second Saturday of March and September will be given simultaneously in Manila, Cebu City and Davao City.

b. Applicants who applied but failed to take the examination three (3) times without valid explanation shall be barred perpetually from taking the examination.

2.3 Issuance of Certificate of Accreditation

a. A Certificate of Accreditation and an Accreditation I.D. will be issued to all applicants who meet the accreditation criteria.

b. The Certificate of Accreditation, unless revoked or suspended for cause, shall be valid for three (3) years from the date it was issued, and shall be renewed thereafter.

3.0 RENEWAL AND UPGRADING OF ACCREDITATION

3.1 Renewal of certificate of accreditation of materials engineers **working abroad** is not allowed. Likewise, materials engineers working in the Philippines should file their application for renewal of their accreditation certificate **personally** by presenting their valid original Professional Regulation Commission (PRC) identification card.

3.2 Request for upgrading of classification, renewal of accreditation certificate and reinstatement of accreditation must be addressed to the Chairman, Accreditation Committee for DPWH and Contractors'/Consultants' Materials Engineers, Attention: The Director IV, BRS, EDSA, Dillman, Quezon City. The Committee which was created to accredit DPWH and Contractors'/Consultants' Materials Engineers shall carry out the evaluation for accreditation and recommend the issuance of certificates of accreditation for approval of the Secretary.

4.0 CLASSIFICATION OF CONTRACTORS'/CONSULTANTS' MATERIALS ENGINEERS

4.1 Materials Engineers shall be classified according to the results of Written and Practical Examinations.

4.1.1 Written Examination

Applicants who got a score of 60% and above are automatically accredited as Materials Engineer I.

4.1.2 Practical Examinations
(For upgrading from Materials Engineer I to Materials II only)

a. Laboratory

The applicants will be required to demonstrate the actual sampling and testing procedures of construction materials in accordance with the existing standards to determine their testing capability.

b. Field

The applicants will be required to demonstrate the actual implementation of quality control supervision and decision making in the project.

4.2 Accredited Materials Engineer I may be upgraded to Materials Engineer II by undergoing only a Practical Examination and not a written examination. Applicants must obtain a total score of at least 75% in the Practical Examination to qualify as Materials Engineer II.

4.3 Accredited Materials Engineer I who applied for upgrading but failed to be upgraded to Materials Engineer II after two (2) successive attempts is barred from taking the Practical Examination for one (1) year and should take a refresher course related to Materials Quality Control.

4.4 An accredited Contractors'/Consultants' Materials Engineer who enters the government service and wishes to be accredited as DPWH Materials Engineer may apply for accreditation. His/her score in the written examination will be considered and he/she must undergo the practical examination. However, in the case of upgraded Materials Engineer II who have undergone practical examination, he/she will be automatically conferred the same rank.

4.5 DPWH engineers who took the DPWH Materials Engineers examination and got a score of 60% and above but are separated from government service can be accredited as Contractors'/Consultants' Materials Engineers I, without undergoing practical examination for Contractors'/Consultants' Materials Engineers.

5.0 CRITERIA FOR THE ASSIGNMENT OF CONTRACTORS'/CONSULTANTS' MATERIALS ENGINEERS

Accredited materials engineers may be assigned to DPWH projects, subject to the following limits of assignment:

Classification	Limits of Assignment
a. Materials Engineer I	- One (1) project costing not more than P150M, or - Two (2) projects, with an aggregate cost of not more than P250M, or - Three (3) projects, with an aggregate cost of not more than P200M.
b. Materials Engineer II	- One (1) project, no cost limit, or - Two (2) projects, with an aggregate cost of not more than P300M, or - Three (3) projects, with an aggregate cost of not more than P250M.

Non-accredited materials engineers may be assigned to three (3) projects, with an aggregate cost of P15.0M or below.

This Order shall take effect immediately and supersedes the following issuances:

1. Department Order No. 184, Series of 1999
2. Department Order No. 60, Series of 2003
3. Department Order No. 55, Series of 2012

ROGELIO L. SINGSON
Secretary

Department of Public Works and Highways
Office of the Secretary

WIN6U01288

5.5 JFS/RCA

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE SECRETARY
Manila

0907.130PWH
09-N-2017

14 SEP 2017

DEPARTMENT ORDER NO. 117 Series of 2017 09.N.17

SUBJECT: Revised Guidelines for the Determination of Major and Similar Categories of Work and Eligibility Requirements for Work Experience in the Procurement of Infrastructure Contracts

In compliance with Section 23.4.2.4 of Implementing Rules and Regulations of Republic Act 9184 stating that *"the Prospective Bidder must have completed a Single Largest Completed Contract (SLCC) that is similar to the contract to be bid, and whose value, adjusted to current prices using the Philippine Statistics Authority (PSA) consumer price indices, must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC) to be bid,"* the concerned DPWH Procuring Entities and Implementing Units shall use the guidelines in this Department Order to determine the work experience on contracts similar to the contract to be bid that a bidder/contractor must possess to be considered eligible to bid for an infrastructure contract involving different categories of works.

A. DEFINITION OF TERMS:

The following terms shall be interpreted in this Department Order as defined:

1. **Major Category of Works** - the main classification of works, for purposes of evaluation of eligibility for civil works, according to type of infrastructure and kind of work performed - e.g. road construction, or bridge rehabilitation, etc.

2. **Similar Category of Works** - a kind of work whose classification is considered to be comparable to the major category of works for purposes of evaluation of eligibility for civil works.

3. **Construction** - the process of building a new infrastructure or facility, such as road, bridge, flood control or building.

4. **Improvement** - the betterment of existing infrastructure through upgrading, widening, or strengthening (e.g., retrofitting) in order to increase its original design capacity or performance.

5. **Rehabilitation** - a grouping of types of works which restore structural capacity and performance, and/or enhance safety. These types of works are applicable to infrastructure in poor or bad condition. In the case of pavement, this shall not extend to the subgrade. In the case of flood control, this incudes dredging.

6. **Retrofitting** - a grouping of types of work associated with strengthening of existing structures to comply with the latest standards, usually with the aid of new technology or introduction of new features to the old design.

0907- MISC.

7. **Maintenance** – an activity undertaken to keep or restore an asset to good working condition.

8. **Qualifier** - an additional specific requirement on Major or Similar Categories of Work, to be required from the bidders at the bidding stage, to show that they have the necessary expertise and experience to undertake the project (e.g., an extraordinarily large embankment volume, soft ground treatment, long tunnel using tunnel boring machine (TBM), or bridge retrofitting using special jacking technology).

9. **Contract** - is an enforceable agreement between two or more participants or persons.

B. LIST OF MAJOR CATEGORIES OF WORKS AND SIMILAR CATEGORIES OF WORKS AND VERIFICATION OF QUALIFIERS

1. In the procurement of infrastructure contracts, the DPWH Procuring Entities and Implementing Units concerned shall use the Major Categories of Works and Similar Categories of Works listed in **ANNEX A**. In determining the work experience of a contractor for a particular contract which involves a given set of Major Categories of Works (columns 1 and 2), the Procuring Entity shall consider the contractor's relevant work experience, not only for the Major Category of Work itself, but also for the corresponding Similar Categories of Works (columns 3 and 4) listed in **ANNEX A**.

2. Similar Categories of Work with asterisk marks (*) in column 4 of **ANNEX A** refer to those used in the DPWH Civil Works Application (CWA) prior to the adoption of the Department Order (DO) No. 14, series 2017.

3. Examples of Qualifiers, as defined in item A-8 above, are given in **ANNEX B**.

4. The verification or validation of compliance with the Qualifiers shall be undertaken during the post-qualification of the bidder with the Lowest Calculated Bid, and not during the Eligibility Check.

C. CRITERIA FOR DETERMINATION OF MAJOR/SIMILAR CATEGORIES OF WORKS AND ELIGIBILITY REQUIREMENTS FOR WORK EXPERIENCE

1. For a contract involving a single category of works (i.e., type of infrastructure and kind of work) - e.g., road construction, or bridge retrofitting, or flood control rehabilitation - the following criteria shall be adopted:

   a. The Major Category of Works is the single category itself.

   b. To be eligible to bid for the contract, a bidder/contractor must have done a Single Largest Completed Contract (SLCC) containing a category of work which is the same as or similar to the Major Category of Works, and whose total SLCC cost is at least 50% of the Approved Budget for the Contract (ABC) to be bid.

2. For a contract to be bid involving multiple categories of works – e.g., combination of road construction, bridge retrofitting, and flood control rehabilitation - the following criteria shall be adopted:

   a. Each category of works whose cost is at least 40% of the ABC shall be considered a Major Category of Works. In case no category of works is at least 40% of the ABC, the category with the highest percentage cost of the ABC shall be considered as the only Major Category of Work. If there are more than one category with the highest percentage cost less than 40% of ABC (say both 39% of the ABC), both categories shall be considered "Major Categories of Work".

   b. To be eligible to bid for the contract, a bidder/contractor must have done a Single Largest Completed Contract (SLCC) complying with the following work experience requirements:

      (1) The contractor must have undertaken a SLCC similar to the contract to be bid. To be so considered similar, the SLCC must contain categories of work which are the same as or similar to the Major Categories of Works of the contract to be bid.

      (2) The total cost of the SLCC must be at least 50% of the total ABC to be bid.

   ANNEX C shows an illustrative example in the determination of Major Categories of Works and in checking the work experience eligibility for a contract involving multiple categories of works.

D. PROCEDURE IN THE DETERMINATION OF MAJOR AND SIMILAR WORK CATEGORIES AND IN THE ELIGIBLITY CHECK USING THE CIVIL WORKS APPLICATION

1. Section 30.1 of the 2016 Implementing Rules and Regulations of the Republic Act 9184 states, among others, "The BAC shall open the first envelopes (technical envelopes) in public to determine each bidder's compliance with the documents required to be submitted for eligibility and for the technical requirements as prescribed in the said IRR". After opening the first envelope, the BAC shall simultaneously conduct the electronic eligibility check and preliminary examination of the Technical components of the bids.

2. For electronic eligibility check of a specific contract to be bid, the BAC with the assistance of the Technical Working Group, through the CWA, shall encode the Contract Profile (Form DPWH-INFRA 08) submitted by the Implementing Office - i.e., Major Category(ies) of Works, unit of measure, dimensions, and cost estimate per category of the ABC. The estimated cost of each Major Category of Work should include the cost of the minor items related to or proportionately distributed to it. The proportionate distribution shall be based on the weighted percentage of the major items. The corresponding Similar Category(ies) of Work for each Major Category of Work shall be automatically selected by the CWA based on **ANNEX A**.

3. In case a bidder is already enrolled in the CWA and submits, together with its technical bid, the updated documents – i.e., Class "A" and Class B" documents, the BAC shall immediately forward copies of Class "A" and Class "B" documents (stamped Certified True Copy by the BAC Secretariat of the procuring entity), for updating to the Procurement Service to encode into the CWA the appropriate data and information – e.g., PCAB License, SLCC, Net Financial Contracting Capacity (NFCC), etc. - from the submitted Eligibility Documents. Without interrupting the bidding process, the BAC shall manually evaluate bidder's eligibility as to their submitted Class "A" and Class "B" Documents. If found passed in the preliminary examination and eligibility evaluation, the BAC shall proceed with the opening of the bidder's 2nd Envelope. Consequently, the BAC shall conduct the electronic eligibility processing of the previously enrolled bidders in the CWA. The BAC shall also declare that upon approval of the application of registration and unlocking of subject contract ID in the CWA, the bidder will be subjected to electronic eligibility processing. Result of latest electronic eligibility processing shall prevail over the manual eligibility evaluation.

4. In case a bidder is not previously enrolled in the CWA and submits its Eligibility Documents – i.e., Class "A" and Class "B" Documents - as part of its bid, the BAC shall do the same process indicated in the above Item 3.

5. In both cases (Items D-3 and D-4), the CWA program will then electronically process and compare (a) the bidder's work experience eligibility data in the CWA – i.e., the value of the bidder's SLCC for Major and Similar Categories of Works – against (b) the eligibility requirements for the contract derived from the Contract Profile earlier entered into the CWA – using the criteria in Item C above. The computer program will automatically determine if the bidder meets the work experience eligibility requirements.

6. The CWA will show the validity date of the legal documents and its corresponding registration/certificate numbers. As to financial aspects, the CWA will automatically compute the Net Financial Contracting Capacity of a bidder.

7. The Lowest Calculated Bid shall undergo post-qualification in order to determine whether the bidder concerned complies with and is responsive to all the requirements and conditions as specified in the Bidding Documents. During the post-qualification, the BAC shall verify, validate, and ascertain all statements made and documents submitted by the bidder with the Lowest Calculated Bid, using non-discretionary criteria, as stated in the Bidding Documents.

8. The category of work used during the Eligibility Check shall be the same category when the project is completed, accepted and included in the database under the contractor's list of completed projects. This category shall be reflected in the Contractor's Information (CI) which is attached to the Contractor's Registration Certificate (CRC).

E. DETERMINATION OF A QUALIFIER

As defined in item C.2.a above, each category of works whose cost is at least 40% of the ABC shall be considered a Major Category of Works. However, for Categories of Work costing less than 40% but not less than 30% of the ABC, the Procuring Entity shall specify in the Bidding document, specifically in the Eligibility Data Sheet (EDS), a Qualifier for the contract to be bid

The Procuring Entity shall also specify a Qualifier for the Contract to be bid, if the Contract to be bid contains items requiring **Special Technology** or **Large Volume of Works.**

F. MODIFICATION OF MAJOR AND SIMILAR CATEGORIES OF WORK

The Committee on the Evaluation on Major Work Categories in the Civil Works Application, under D.O. 120 series of 2015, is hereby authorized to modify any item in the Table of Major Work and Similar Categories of Work in Annex A of this Department Order, as well as other related Annexes therein, as necessary to suit changes in construction industry practices.

G. EFFECTIVITY

This Order supersedes Department Orders No. 139 and 173, series of 2016, and Department Order No. 14, series 2017 and shall take effect fifteen (15) calendar days after publication thereof in a newspaper of general circulation.

MARK A.VILLAR
Secretary

Department of Public Works and Highways
Office of the Secretary
WIN7XR01246

12.1.1 EED/MNC/MVSG/DNEP

ANNEX A
MAJOR AND SIMILAR CATEGORIES OF WORKS

Category of Work Code	Work Description	Similar Category of Work Code	Similar Category of Work Description
(1)	(2)	(3)	(4)
BCB	Bridges: Construction - Bailey	BRHSDP	Bridges: Rehabilitation - Steel (Superstructure) - with Driven Piles
		BRTSDP	Bridges: Retrofitting – Steel (Superstructure) - with Driven Piles
		BRHSCP	Bridges: Rehabilitation - Steel (Superstructure) - with Cast-in-Place Piles
		BRTSCP	Bridges: Retrofitting - Steel (Superstructure) - with Cast-in-Place Piles
		BRHCDP	Bridges: Rehabilitation - Concrete (Superstructure) - with Driven Piles
		BRTCDP	Bridges: Retrofitting - Concrete (Superstructure) - with Driven Piles
		BRHCCP	Bridges: Rehabilitation - Concrete (Superstructure) - with Cast-in-Place Piles
		BRTCCP	Bridges: Retrofitting - Concrete (Superstructure) - with Cast-in-Place Piles
		BCSDP	Bridges: Construction - Steel (Superstructure) - with Driven Piles
		BCSCP	Bridges: Construction - Steel (Superstructure) - with Cast-in-Place Piles
		BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles
		BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles
		BCC	Bridges: Construction - Concrete *
		BRC	Bridges: Rehabilitation - Concrete *
		BCP	Bridges: Construction - with Bored Piles *
		BRP	Bridges: Rehabilitation - With Bored Piles *
		BCS	Bridges: Construction - Steel *
		BRS	Bridges: Rehabilitation - Steel *
		BRR	Bridges: Rehabilitation - Retrofitting *
BCSDP	Bridges: Construction - Steel (Superstructure) - with Driven Piles	BRHSDP	Bridges: Rehabilitation - Steel (Superstructure) - with Driven Piles
		BRTSDP	Bridges: Retrofitting - Steel (Superstructure) - with Driven Piles
		BCS	Bridges: Construction - Steel *
		BRS	Bridges: Rehabilitation - Steel *
		BCP	Bridges: Construction - with Bored Piles *
		BRP	Bridges: Rehabilitation - With Bored Piles *

		BRR	Bridges: Rehabilitation - Retrofitting	*
BCSCP	Bridges: Construction - Steel (Superstructure) - with Cast-in-Place Piles	BRHSCP	Bridges: Rehabilitation - Steel (Superstructure) - with Cast-in-Place Piles	
		BRTSCP	Bridges: Retrofitting - Steel (Superstructure) - with Cast-in-Place Piles	
		BCS	Bridges: Construction - Steel	*
		BRS	Bridges: Rehabilitation - Steel	*
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	BRHCDP	Bridges: Rehabilitation - Concrete (Superstructure) - with Driven Piles	
		BRTCDP	Bridges: Retrofitting - Concrete (Superstructure) - with Driven Piles	
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BCC	Bridges: Construction - Concrete	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles	BRHCCP	Bridges: Rehabilitation - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRTCCP	Bridges: Retrofitting - Concrete (Superstructure) - with Cast-in-Place Piles	
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BCC	Bridges: Construction - Concrete	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BRHSDP	Bridges: Rehabilitation - Steel (Superstructure) - with Driven Piles	BCSDP	Bridges: Construction - Steel (Superstructure) - with Driven Piles	
		BRTSDP	Bridges: Retrofitting - Steel (Superstructure) - with Driven Piles	
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
		BCS	Bridges Construction - Steel	*
		BRS	Bridges. Rehabilitation - Steel	*
BRHSCP	Bridges: Rehabilitation - Steel (Superstructure) - with Cast-in-Place Piles	BCSCP	Bridges. Construction - Steel (Superstructure) - with Cast-in-Place Piles	
		BRTSCP	Bridges: Retrofitting - Steel (Superstructure) - with Cast-in-Place Piles	
		BCS	Bridges: Construction - Steel	*

		BRS	Bridges: Rehabilitation - Steel	*
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BRHCDP	Bridges: Rehabilitation - Concrete (Superstructure) - with Driven Piles	BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	
		BRTCDP	Bridges: Retrofitting - Concrete (Superstructure) - with Driven Piles	
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCC	Bridges: Construction - Concrete	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BRR	Bridges: Rehabilitation – Retrofitting	*
BRHCCP	Bridges: Rehabilitation - Concrete (Superstructure) - with Cast-in-Place Piles	BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRTCCP	Bridges: Retrofitting - Concrete (Superstructure) - with Cast-in-Place Piles	
		BCC	Bridges: Construction - Concrete	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BRTSDP	Bridges: Retrofitting - Steel (Superstructure) - with Driven Piles	BCSDP	Bridges: Construction - Steel (Superstructure) - with Driven Piles	
		BRHSDP	Bridges: Rehabilitation - Steel (Superstructure) - with Driven Piles	
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCP	Bridges: Construction - with Bored Piles	*
		BCS	Bridges: Construction - Steel	*
		BRS	Bridges: Rehabilitation - Steel	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BRTSCP	Bridges: Retrofitting - Steel (Superstructure) - with Cast-in-Place Piles	BCSCP	Bridges: Construction - Steel (Superstructure) - with Cast-in-Place Piles	
		BRHSDP	Bridges: Rehabilitation - Steel (Superstructure) - with Driven Piles	
		BRP	Bridges: Rehabilitation-With Bored Piles	*
		BCP	Bridges: Construction - with Bored Piles	*
		BCS	Bridges: Construction - Steel	*
		BRS	Bridges: Rehabilitation - Steel	*
		BRR	Bridges: Rehabilitation - Retrofitting	*

BRTCDP	Bridges: Retrofitting - Concrete (Superstructure) - with Driven Piles	BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	
		BRHCDP	Bridges: Rehabilitation - Concrete (Superstructure) - with Driven Piles	
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCP	Bridges: Construction - with Bored Piles	*
		BCC	Bridges: Construction - Concrete	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BRTCCP	Bridges: Retrofitting - Concrete (Superstructure) - with Cast-in-Place Piles	BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRHCCP	Bridges: Rehabilitation - Concrete (Superstructure) - with Cast-in-Place Piles	
		BCC	Bridges: Construction - Concrete	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCP	Bridges: Construction - with Bored Piles	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BCCWOP	Bridges: Construction - Concrete (Superstructure) - without Piles	BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	
		BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRHCDP	Bridges: Rehabilitation - Concrete (Superstructure) - with Driven Piles	
		BRHCCP	Bridges: Rehabilitation - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRTCDP	Bridges: Retrofitting - Concrete (Superstructure) - with Driven Piles	
		BRTCCP	Bridges: Retrofitting - Concrete (Superstructure) - with Cast-in-Place Piles	
		BCC	Bridges: Construction - Concrete	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BCSWOP	Bridges: Construction - Steel (Superstructure) - without Piles	BCSDP	Bridges: Construction - Steel (Superstructure) - with Driven Piles	
		BCSCP	Bridges: Construction - Steel (Superstructure) - with Cast-in-Place Piles	
		BRHSDP	Bridges: Rehabilitation - Steel (Superstructure) - with Driven Piles	
		BRHSCP	Bridges: Rehabilitation - Steel (Superstructure) - with Cast-in-Place Piles	
		BRTSDP	Bridges: Retrofitting - Steel (Superstructure) - with Driven Piles	

		BRTSOP	Bridges: Retrofitting - Steel (Superstructure) - with Cast-in-Place Piles	
		BCS	Bridges: Construction - Steel	*
		BRS	Bridges: Rehabilitation - Steel	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges. Rehabilitation - With Bored Piles	*
BRHCWOP	Bridges: Rehabilitation - Concrete (Superstructure) - without Piles	BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	
		BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRTCDP	Bridges: Retrofitting - Concrete (Superstructure) - with Driven Piles	
		BRTCCP	Bridges: Retrofitting - Concrete (Superstructure) - with Cast-in-Place Piles	
		BCC	Bridges: Construction - Concrete	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCP	Bridges: Construction - with Bored Piles	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
BRHSWOP	Bridges: Rehabilitation - Steel (Superstructure) - without Piles	BCSDP	Bridges: Construction - Steel (Superstructure) - with Driven Piles	
		BCSCP	Bridges: Construction - Steel (Superstructure) - with Cast-in-Place Piles	
		BRTSDP	Bridges: Retrofitting - Steel (Superstructure) - with Driven Piles	
		BRTSCP	Bridges: Retrofitting - Steel (Superstructure) - with Cast-in-Place Piles	
		BCS	Bridges: Construction - Steel	*
		BRS	Bridges: Rehabilitation - Steel	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCP	Bridges: Construction - with Bored Piles	*
BRTCWOP	Bridges: Retrofitting - Concrete (Superstructure) - without Piles	BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	
		BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRHCDP	Bridges: Rehabilitation - Concrete (Superstructure) - with Driven Piles	
		BRHCCP	Bridges: Rehabilitation - Concrete (Superstructure) - with Cast-in-Place Piles	
		BCC	Bridges: Construction - Concrete	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCP	Bridges: Construction - with Bored Piles	*

		BRR	Bridges: Rehabilitation - Retrofitting	*
BRTSWOP	Bridges: Retrofitting - Steel (Superstructure) - without Piles	BCSDP	Bridges: Construction - Steel (Superstructure) - with Driven Piles	
		BCSCP	Bridges: Construction - Steel (Superstructure) - with Cast-in-Place Piles	
		BRHSDP	Bridges: Rehabilitation - Steel (Superstructure) - with Driven Piles	
		BRHSCP	Bridges: Rehabilitation - Steel (Superstructure) - with Cast-in-Place Piles	
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCP	Bridges: Construction - with Bored Pile	*
		BRS	Bridges: Rehabilitation - Steel	*
		BCS	Bridges: Construction - Steel	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
RCA	Roads: Construction - Asphalt	RRA	Roads: Rehabilitation - Asphalt	
RCG	Roads: Construction - Gravel	RCA	Roads: Construction - Asphalt	
		RCP	Roads: Construction - PCCP	
		RRA	Roads: Rehabilitation - Asphalt	
		RRP	Roads: Rehabilitation - PCCP	
		RRG	Roads: Rehabilitation - Gravel	*
RCP	Roads: Construction - PCCP	RRP	Roads: Rehabilitation - PCCP	
		RCTP	Roads: Construction - Tunnel - PCCP	
RRA	Roads: Rehabilitation – Asphalt	RCA	Roads: Construction - Asphalt	
RRP	Roads: Rehabilitation - PCCP	RCP	Roads: Construction - PCCP	
		RCTP	Roads: Construction - Tunnel - PCCP	
RCTP	Roads: Construction - Tunnel - PCCP		None	
RCSPNS	Roads: Construction - Slope Protection using non - structural measures (e.g. vetiver, coconet, other vegetation)	FCSPNS	Flood Control: Construction - Slope Protection using non - structural measures (e.g. vetiver, coconet, other vegetation)	
		FHR	Flood Control: Hydraulics - River Control	*
RCSPS	Roads: Construction - Slope Protection using Structural Measures (e.g. Revetment, Retaining structures, Wirenet)	FCSPS	Flood Control: Construction - Slope Protection using Structural Measures (e.g. Revetment, Retaining structures, Wirenet)	
		FHR	Flood Control: Hydraulics - River Control	*
RM	Roads: Maintenance	RCA	Roads: Construction - Asphalt	
		RCP	Roads: Construction - PCCP	
		RRA	Roads: Rehabilitation - Asphalt	

		RRP	Roads: Rehabilitation - PCCP	
		MRB	Maintenance of Roads and Bridges	*
		RCG	Roads: New Construction - Gravel	*
		RRG	Roads: Rehabilitation - Gravel	*
BM	Bridges: Maintenance	BCB	Bridges: Construction - Bailey	
		BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles	
		BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	
		BCCWOP	Bridges: Construction - Concrete (Superstructure) - without Piles	
		BCSCP	Bridges: Construction - Steel (Superstructure) - with Cast-in-Place Piles	
		BCSDP	Bridges: Construction - Steel (Superstructure) - with Driven Piles	
		BCSWOP	Bridges: Construction - Steel (Superstructure) - without Piles	
		BRHCCP	Bridges: Rehabilitation - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRHCDP	Bridges: Rehabilitation - Concrete (Superstructure) - with Driven Piles	
		BRHCWOP	Bridges: Rehabilitation - Concrete (Superstructure) - without Piles	
		BRHSCP	Bridges: Rehabilitation - Steel (Superstructure) - with Cast-in-Place Piles	
		BRHSDP	Bridges: Rehabilitation - Steel (Superstructure) - with Driven Piles	
		BRHSWOP	Bridges: Rehabilitation - Steel (Superstructure) - without Piles	
		BRTCCP	Bridges: Retrofitting - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRTCDP	Bridges: Retrofitting - Concrete (Superstructure) - with Driven Piles	
		BRTCWOP	Bridges: Retrofitting - Concrete (Superstructure) - without Piles	
		BRTSCP	Bridges: Retrofitting - Steel (Superstructure) - with Cast-in-Place Piles	
		BRTSDP	Bridges: Retrofitting - Steel (Superstructure) - with Driven Piles	
		BRTSWOP	Bridges: Retrofitting - Steel (Superstructure) - without Piles	
		BCC	Bridges: Construction - Concrete	*
		BRC	Bridges: Rehabilitation - Concrete	*
		BCP	Bridges: Construction - with Bored Piles	*
		BRP	Bridges: Rehabilitation - With Bored Piles	*
		BCB	Bridges: Construction - Bailey	*
		BRB	Bridges: Rehabilitation - Bailey	*
		BCS	Bridges: Construction - Steel	*

		BRS	Bridges: Rehabilitation - Steel	*
		BRR	Bridges: Rehabilitation - Retrofitting	*
		MRB	Maintenance of Roads and Bridges	*
TEMS	Traffic Engineering and Management System (including Road Safety Devices)	TEG	Traffic Engineering: Guardrails	*
		TEP	Traffic Engineering: Pavement Markings	*
		TEP-P	Traffic Engineering : Profiled Markings	*
		TEP-S	Traffic Engineering: Pavement Studs	*
		TES	Traffic Engineering: Signalization	*
		TEA	Traffic Engineering: Signage	*
BICWPLCDP	Buildings: Construction - with Piles - Low Rise - Concrete (Frame) - Driven Piles (1 to 5 Storeys)	BICWPHCDP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Driven Piles	
		BIL	Buildings: Industrial Plant-Low rise	*
		BIM	Buildings: Industrial Plant-Medium rise	*
		BIH	Buildings: Industrial Plant-High rise	*
BICWPLCCP	Buildings: Construction - with Piles - Low Rise - Concrete (Frame) - Cast-in-Place Piles (1 to 5 Storeys)	BICWPHCCP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Cast-in-Place Piles	
		BIL	Buildings: Industrial Plant-Low rise	*
		BIM	Buildings: Industrial Plant-Medium rise	*
		BIH	Buildings: Industrial Plant-High rise	*
BICWOPLC	Buildings: Construction - without Piles - Low Rise - Concrete (Frame) (1 to 5 Storeys)	BICWPHCCP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Cast-in-Place Piles	
		BICWPLCCP	Buildings: Construction - with Piles - Low Rise - Concrete (Frame) - Cast-in-Place Piles	
		BICWPHCDP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Driven Piles	
		BICWPLCDP	Buildings: Construction - with Piles - Low Rise - Concrete (Frame) - Driven Piles	
		BICWOPHC	Buildings: Construction - without Piles - High Rise - Concrete (Frame)	
		BIL	Buildings: Industrial Plant - Low Rise	*
		BIH	Buildings: Industrial Plant - High Rise	*
		BIM	Buildings: Industrial Plant - Medium Rise	*
BICWPHCDP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Driven Piles (6 and above Storeys)	BIH	Buildings: Industrial Plant - High Rise	*
BICWPHCCP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Cast-in-Place Piles (6 and above Storeys)	BIH	Buildings: Industrial Plant - High Rise	*
BICWOPHC	Buildings: Construction -	BICWPHCCP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Cast-in-Place Piles	

	without Piles - High Rise - Concrete (Frame) (6 and above Storeys)	BICWPHCDP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Driven Piles	
		BIH	Buildings: Industrial Plant - High Rise	*
BICWPLSDP	Buildings: Construction - with Piles - Low Rise - Steel (Frame) - Driven Piles (1 to 5 Storeys)	BICWPHSDP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Driven Piles	
		BIL	Buildings: Industrial Plant - Low rise	*
		BIM	Buildings: Industrial Plant - Medium rise	*
		BIH	Buildings: Industrial Plant - High rise	*
BICWPLSCP	Buildings: Construction - with Piles - Low Rise - Steel (Frame) - Cast-in-Place Piles (1 to 5 Storeys)	BICWPHSCP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Cast-in-Place Piles	
		BIL	Buildings: Industrial Plant - Low rise	*
		BIM	Buildings: Industrial Plant - Medium rise	*
		BIH	Buildings: Industrial Plant - High rise	*
BICWOPLS	Buildings: Construction - without Piles - Low Rise - Steel (Frame) (1 to 5 Storeys)	BICWPHSCP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Cast-in-Place Piles	
		BICWPLSCP	Buildings: Construction - with Piles - Low Rise - Steel (Frame) - Cast-in-Place Piles	
		BICWPHSDP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Driven Piles	
		BICWPLSDP	Buildings: Construction - with Piles - Low Rise - Steel (Frame) - Driven Piles	
		BICWOPHS	Buildings: Construction - without Piles - High Rise - Steel (Frame)	
		BIH	Buildings: Industrial Plant - High rise	*
		BIL	Buildings: Industrial Plant - Low rise	*
		BIM	Buildings: Industrial Plant - Medium rise	*
BICWPHSDP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Driven Piles (6 and above Storeys)	BIH	Buildings: Industrial Plant - High rise	*
BICWPHSCP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Cast-in-Place Piles (6 and above Storeys)	BIH	Buildings: Industrial Plant - High rise	*
BICWOPHS	Buildings: Construction - without Piles - High Rise - Steel (Frame) (6 and above Storeys)	BICWPHSCP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Cast-in-Place Piles	
		BICWPHSDP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Driven Piles	
		BIH	Buildings: Industrial Plant-HIGH rise	*
BIR	Buildings: Repair	BIRTH	Buildings: Retrofitting - High Rise	
		BIRTL	Buildings: Retrofitting - Low Rise	
		BICWPLCDP	Buildings: Construction - with Piles - Low Rise - Concrete (Frame) - Driven Piles	

		BICWPHCDP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Driven Piles	
		BICWPLCCP	Buildings: Construction - with Piles - Low Rise - Concrete (Frame) - Cast-in-Place Piles	
		BICWPHCCP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Cast-in-Place Piles	
		BICWPLSDP	Buildings: Construction - with Piles - Low Rise - Steel (Frame) - Driven Piles	
		BICWPHSDP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Driven Piles	
		BICWPLSCP	Buildings: Construction - with Piles - Low Rise - Steel (Frame) - Cast-in-Place Piles	
		BICWPHSCP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Cast-in-Place Piles	
		BICWOPLS	Buildings: Construction - without Piles - Low Rise - Steel (Frame)	
		BICWOPHS	Buildings: Construction - without Piles - High Rise - Steel (Frame)	
		BICWOPLC	Buildings: Construction - without Piles - Low Rise - Concrete (Frame)	
		BICWOPHC	Buildings: Construction - without Piles - High Rise - Concrete (Frame)	
		BIL	Buildings: Industrial Plant - Low Rise	*
		BIM	Buildings: Industrial Plant - Medium Rise	*
		BIH	Buildings: Industrial Plant - High Rise	*
		MBG	Maintenance of Buildings	*
BIRTL	Buildings: Retrofitting - Low Rise	BICWPLCDP	Buildings: Construction - with Piles - Low Rise - Concrete (Frame) - Driven Piles	
		BICWPHCDP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Driven Piles	
		BICWPLCCP	Buildings: Construction - with Piles - Low Rise - Concrete (Frame) - Cast-in-Place Piles	
		BICWPHCCP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Cast-in-Place Piles	
		BICWPLSDP	Buildings: Construction - with Piles - Low Rise - Steel (Frame) - Driven Piles	
		BICWPHSDP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Driven Piles	
		BICWPLSCP	Buildings: Construction - with Piles - Low Rise - Steel (Frame) - Cast-in-Place Piles	
		BICWPHSCP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Cast-in-Place Piles	
		BICWOPLS	Buildings: Construction - without Piles - Low Rise - Steel (Frame)	
		BICWOPHS	Buildings: Construction - without Piles - High Rise - Steel (Frame)	
		BICWOPLC	Buildings: Construction - without Piles - Low Rise - Concrete (Frame)	

		BICWOPHC	Buildings: Construction - without Piles - High Rise - Concrete (Frame)	
		BIL	Buildings: Industrial Plant - Low Rise	*
		BIH	Buildings: Industrial Plant - High Rise	*
		BIM	Buildings: Industrial Plant - Medium Rise	*
BIRTH	Buildings: Retrofitting - High Rise	BICWPHODP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Driven Piles	
		BICWPHCCP	Buildings: Construction - with Piles - High Rise - Concrete (Frame) - Cast-in-Place Piles	
		BICWPHSDP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Driven Piles	
		BICWPHSCP	Buildings: Construction - with Piles - High Rise - Steel (Frame) - Cast-in-Place Piles	
		BICWOPHS	Buildings: Construction - without Piles - High Rise - Steel (Frame)	
		BICWOPHC	Buildings: Construction - without Piles - High Rise - Concrete (Frame)	
		BIH	Buildings: Industrial Plant - High Rise	*
FCG	Flood Control: Construction - Gates	FCP	Flood Control: Construction - Pumping Station	
		FCDG	Flood Control: Construction - Dam with Gates	
		FHP	Flood Control: Hydraulics - Pumping Station	*
FCDG	Flood Control: Construction - Dam with Gates	FCP	Flood Control: Construction - Pumping Station	
		FHP	Flood Control: Hydraulics - Pumping Station	*
FCRB	Flood Control: Construction - Retarding Basin	FCD	Flood Control: Construction - Dams	
		FCDKL	Flood Control: Construction - Dike/Levees	
		FCCE	Flood Control: Construction - Channel Excavation	
		FHD	Flood Control: Hydraulics - Dams	*
FCSP	Flood Control: Construction - Shore Protection (Seawall, Breakwater)	PCCWDP	Ports/Harbors: Construction – Causeway/Wharf – with Driven Piles	
		PCCWCP	Ports/Harbors: Construction – Causeway/Wharf – with Cast-in-Place Piles	
		FHR	Flood Control: Hydraulics - River Control	*
		PHC	Ports/Harbors: Causeway	*
		PHW	Ports/Harbors: Wharf	*
		FHD	Flood Control: Hydraulics - Dam	*
FCSPNS	Flood Control: Construction - Slope Protection using non - structural measures (e.g. vetiver, coconet, other vegetation)	RCSPNS	Roads: Construction - Slope Protection using non - structural measures (e.g. vetiver, coconet, other vegetation)	
		FHR	Flood Control: Hydraulics - River Control	*
		PHC	Ports/Harbors: Causeway	*
		FHD	Flood Control: Hydraulics - Dam	*
FCSPS	Flood Control: Construction - Slope Protection using Structural Measures	RCSPS	Roads: Construction - Slope Protection using Structural Measures (e.g. Revetment, Retaining structures, Wirenet)	
		FHR	Flood Control: Hydraulics - River Control	*

	(e.g. Revetment, Retaining structures, Wirenet)	PHC	Ports/Harbors: Causeway	*
		FHD	Flood Control: Hydraulics - Dam	*
FCD	Flood Control: Construction - Dams	FCRB	Flood Control: Construction - Retarding Basin	
		FCDKL	Flood Control: Construction - Dikes/Levees	
		FHD	Flood Control: Hydraulics - Dam	*
		FHR	Flood Control: Hydraulics - River Control	*
		FCDG	Flood Control: Construction - Dam with Gates	
FMDRE	Flood Control: Maintenance - Dredging, Desilting, River Rechanneling/Excavation Works	FCRB	Flood Control: Construction - Retarding Basin	
		FCCE	Flood Control: Construction - Channel Excavation	
		HD	Harbors: Dredging	
		MFC	Maintenance: Flood Control	*
		FHG	Flood Control: Hydraulics - Dredging	*
		FHR	Flood Control: Hydraulics - River Control	*
FCCE	Flood Control: Construction - Channel Excavation	FMDRE	Flood Control: Maintenance - Dredging, Desilting, River Rechanneling/Excavation Works	
		HD	Harbors: Dredging	
		FHG	Flood Control: Hydraulics - Dredging	*
		FHR	Flood Control: Hydraulics - River Control	*
HD	Harbors: Dredging	FMDRE	Flood Control: Maintenance - Dredging, Desilting, River Rechanneling/Excavation Works	
		FCCE	Flood Control: Construction - Channel Excavation	
		FHG	Flood Control: Hydraulics - Dredging	*
FCN **	Flood Control: Construction - Drainage (Closed and open) Conduits	ROP	Roads: Construction - PCCP	
		RCA	Roads: Construction - Asphalt	
		RRP	Roads: Rehabilitation - PCCP	
		RRA	Roads: Rehabilitation - Asphalt	
		WSL2&3	Water Supply (Level 2 & 3): Construction (Piped Water with Communal/Private Water Point)	
		FHN	Flood Control: Hydraulics - Drainage	*
		FHD	Flood Control: Hydraulics - Dam	*
		FHR	Flood Control: Hydraulics - River Control	*
FCP	Flood Control: Construction - Pumping Station	FHP	Flood Control: Hydraulics - Pumping Station	*
		FCG	Flood Control: Construction - Gates	
		FCDG	Flood Control: Construction - Dam with gates	
		FHD	Flood Control: Hydraulics - Dam	*
FCDKL	Flood Control:	FCD	Flood Control: Construction - Dams	

	Construction - Dikes/Levees	FCRB	Flood Control: Construction - Retarding Basin	
		FCSP	Flood Control: Construction - Shore Protection (Seawall, Breakwater)	
		FHR	Flood Control: Hydraulics - River Control	*
		PHC	Ports/Harbors: Causeway	*
		PHW	Ports/Harbors: Wharf	*
		FHD	Flood Control: Hydraulics - Dam	*
		FCDG	Flood Control: Construction - Dam with Gates	
FCBPS	Flood Control: Construction - Bank Protection Structure	FCSP	Flood Control: Construction - Shore Protection (Seawall, Breakwater)	
		FHR	Flood Control: Hydraulics - River Control	*
		PHC	Ports/Harbors: Causeway	*
		PHW	Ports/Harbors: Wharf	*
		FHD	Flood Control: Hydraulics - Dam	*
WSL1	Water Supply (Level 1): Construction (Shallow Wells/ Rainwater Collectors)	WSL2&3	Water Supply (Level 2 & 3): Construction (Piped Water with Communal/Private Water Point)	
		FHW	Flood Control: Hydraulics - Water Supply	*
WSL2&3	Water Supply (Level 2 & 3): Construction (Piped Water with Communal/Private Water Point)	FCN	Flood Control: Construction - Drainage (Closed and open)	
		FHW	Flood Control: Hydraulics - Water Supply	*
PCCWDP	Ports/Harbors: Construction - Causeway/Wharf - with Driven Piles	BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	
		BCP	Bridges: Construction-With Bored Piles	*
		PHC	Ports/Harbors: Causeway	*
		PHW	Ports/Harbors: Wharf	*
		FHD	Flood Control: Hydraulics - Dam	*
		BCC	Bridges: Construction - Concrete	*
PCCWCP	Ports/Harbors: Construction - Causeway/Wharf - with Cast-In-Place Piles	BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-In-Place Piles	
		BCC	Bridges: Construction - Concrete	*
		BCP	Bridges: Construction - with Bored Piles	*
		PHC	Ports/Harbors : Causeway	*
		PHW	Ports/Harbors: Wharf	*
		FHD	Flood Control: Hydraulics - Dam	*
PMCWDP	Ports/Harbors: Maintenance - Causeway/Wharf - with Driven Piles	BCCDP	Bridges: Construction - Concrete (Superstructure) - with Driven Piles	
		BRHCDP	Bridges: Rehabilitation - Concrete (Superstructure) - with Driven Piles	

		PCCWDP	Ports/Harbors: Construction - Causeway/Wharf - with Driven Piles	
		BCP	Bridges: Construction - With Bored Piles	*
		PHC	Ports/Harbors: Causeway	*
		PHW	Ports/Harbors: Wharf	*
		FHD	Flood Control: Hydraulics - Dam	*
		BCC	Bridges: Construction - Concrete	*
PMCWCP	Ports/Harbors: Maintenance - Causeway/Wharf - with Cast-in-Place Piles	BCCCP	Bridges: Construction - Concrete (Superstructure) - with Cast-in-Place Piles	
		BRHCCP	Bridges: Rehabilitation - Concrete (Superstructure) - with Cast-in-Place Piles	
		PCCWCP	Ports/Harbors: Construction - Causeway/Wharf - with Cast-in-Place Piles	
		BCC	Bridges: Construction - Concrete	*
		BCP	Bridges: Construction - with Bored Piles	*
		PHC	Ports/Harbors: Causeway	*
		PHW	Ports/Harbors: Wharf	*
		FHD	Flood Control: Hydraulics - Dam	*

* Old Categories of Works which are retained in the CWA but shall not to be used as Major Categories of Works of the Contract to be Bid in the Preparation of Contract Profile (NR002). The major categories of works shall be selected from columns 1 and 2 (Category of Work Code and Work Description, respectively)

** Drainage facilities along road that serves to remove water from the road and its immediate surroundings only shall not be treated as separate flood control category (FCN)

In applying the Major and Similar Categories of Work given in Annex A, the following types of infrastructure are considered similar to the basic types of each other.

Basic Types	Similar Types
Road	Highway, tollway, expressway, airport runway, taxiway
Bridge	Flyover, viaduct, elevated railway, interchange, piers and ports
Building	School, hospital, housing, commercial building, industrial building, warehouse
Tunnel	Subway, mining tunnel, subsurface aqueduct
Water Supply	Irrigation dam, power dam

ANNEX B
EXAMPLES OF QUALIFIER

Note: The contents of this ANNEX B are illustrative examples of Qualifiers and not necessarily to be adopted for specific projects. Actual Qualifiers to be used shall be recommended on a project-to-project basis by the concerned implementing office, depending on the requirements of the particular projects under consideration.

CATEGORY	EXAMPLE OF QUALIFIER
Bridges: Construction - Steel - with Driven Piles	Must include major structural steel components of both substructure and superstructure (e.g.. piles, girders, truss members) comprising at least a total of say 20% of project cost
Bridges: Construction - Steel - with Cast-in-Place Piles	Must include major structural concrete components of both substructure and superstructure. (e.g., piles, girders, truss members) comprising at least 20% of the item of work of the project.
Bridges: Construction - Concrete - with Driven Piles	Must include major structural components of both substructure and superstructure. (e.g., piles, girders, truss members) comprising at least 20% of the item of work of the project.
Bridges. Construction - Concrete - with Cast-in-Place Piles	Must include major structural components of both substructure and superstructure. (e.g. piles, girders, truss members) comprising at least 20% of the item of work of the project.
Roads: Construction - PCCP	Must have completed reconstruction and reblocking including base course covering 50% of the item of work of the project. May include Airport Runways, Taxiways and Aprons
Tunnel: Construction	Must have completed underground/subsurface facilities using Tunnel Boring Machine: Construction (Subway, Mining, Water Irrigation Aqueduct)
Roads: Construction - Slope Protection using Structural Measures (e.g. Revetment, Retaining structures, Wiremet)	Bidder must have completed: 1. At least one (1) contract that is similar to the following works among others: a. Stone Masonry b. Retaining Wall c. Grouted Riprap d. Geosynthetic 2. Similar slope protection works with at least 50% of the item of work of the project.
Traffic Engineering and Management System	Must have completed channelizabon, signalization, traffic signs, road furniture, barricades, highway/road lighting
Relocabon of Utilities (specific scope of works)	Included in this new category are the installation, removal/relocation of electrical posts, water utilities, transmission lines, telephone utilities, communication towers, etc.
Flood Control: Construction - Gates	Specify the type of gate (e.g. sluice gate, navigational gate,tidal gate and weir, flap gate)
Flood Control. Construction - Retarding Basin	Bidder must have completed at least one (1) similar contract on earthmoving (excavation and embankment) involving at least 50% of the item of work of the project.
Flood Control- Construction - Shore Protection (Seawall, Breakwater)	Bidder must have completed: 1. At least one (1) contract that is similar to the following ports and harbors projects to be bid, and; 2. Similar shore protection works with at least 50% of the item of work of the projects a. Coastal Dike b. Causeway c. Wharf
Flood Control: Construction - Slope Protection using non - structural measures (e.g.	Bidder must have completed: 1. At least one (1) contract that is similar to the following measures among others: a. Coconet (Sodding)

CATEGORY	EXAMPLE OF QUALIFIER
vetiver, coconet, other vegetation)	b. Vetiver Grass 2. Similar slope protection works with at least 50% of the item of work of the project.
Flood Control: Construction - Slope Protection using Structural Measures (e.g. Revetment, Retaining structures, Wirenet)	Bidder must have completed: 1. At least one (1) contract that is similar to the following works among others: a. Concrete Revetment, Gabion Revetment c. Wire net d. Stone Masonry e. Retaining Wall/Floodwall f. Grouted Riprap g. Geosynthetic 2. Similar slope protection works with at least 50% of item of work of the project.
Flood Control: Construction - Dams	Bidder must have completed: 1. At least one (1) contract that is similar to the following sediment control (sabo) dam and irrigation projects to be bid, and; 2. Similar sediment control (sabo) dam and irrigation works with at least 50% of the item of work of the project. a. Sediment Control (Sabo) Dam b. Irrigation Dam c. Small Water Impounding Management (SWIM) Dam (Height<15m) d. Water Supply/ Flood Control Dams (Height>15m) e. Specify requirements for height and volume for special projects. e.g. Concrete Dam with at least 50% of the required volume of concrete.
Flood Control: Maintenance - Dredging, Desilting, River Rechanneling/Excavation Works	Bidder must have an experience on: 1. Completed at least one (1) contract that has similar channel excavation/ dredging projects to be bid, and; 2. Similar channel excavation/dredging works with at least 50% of items of work of the project.
Flood Control: Construction - Channel Excavation	Must have completed similar channel excavation/dredging works with at least 50% of volume of work of the project.
Harbors, Dredging	Must have completed similar channel excavation/dredging works with at least 50% of volume/quantity of work of the project.
Flood Control: Construction - Drainage (Closed and open)	Must have completed road construction with drainage component or water supply (Levels 2 & 3): construction with water pipe or sewer pipes
Flood Control: Construction - Pumping Station	Must have experience in electromechanical works
Flood Control: Construction - Dikes/Levees	Include the type of material (concrete, gabion, etc.)
Water Supply (Level 1): Construction	Bidder must have an experience on similar flood control projects and water supply projects with 50% of items of work of the project, e.g.: a. Deepwell b. Reservoir c. Water Works System d. Water Source Development e. Water Treatment System f. Water tank
Water Supply (Level 2 & 3). Construction	Must have completed Pressurized Pipes/Closed Conduits
Ports/Harbors: Construction - Causeway/Wharf - with Driven Piles	Bidder must have similar experience on bridge construction/river control and shore protection projects with 50% of items of work of the project, e.g.: a. Causeway b. Wharfs c. Apron d. RORO landings

ANNEX C
EXAMPLE IN DETERMINING MAJOR CATEGORIES OF WORKS AND WORK EXPERIENCE ELIGIBILITY FOR CONTRACT WITH MULTIPLE CATEGORIES OF WORKS

In the case of a contract consisting of multiple categories of works, the following hypothetical example illustrates the process in determining the Major Categories of Works of that contract and in checking the work experience eligibility of a bidder for the contract, using the rules prescribed in this Department Order (DO).

Given:

The contract to be bid consists of three categories of works with the following characteristics:

Contract to be Bid

Category	Approved Budget for the Contract (ABC)	% of Total ABC	Classification
FCCE	P40M	47.06%	Major
FCSPS	P42M	49.41%	Major
TEMS	P3M	3.53%	
	P85M		

In accordance with DO _____, for the contract to be bid, FCCE and FCSPS are considered the Major Categories of Works since their respective costs are more than 40% of the ABC.

Problem:

Determine if the following bidders' Single Largest Completed Contracts (SLCC's) meet the eligibility requirements for work experience for the contract to be bid.

Given:

Bidder	Total Amount of SLCC (P)	Category/ies of Works under the SLCC	Amount of each Category of Works under the SLCC (P)
A	65M	FCCE	10M
		FCSPS	15M
		BCSWOP	60M
B	45M	FHR	45M
C	100M	FCSPS	45M
		TEMS	55M
D	30M	FCCE	10M
		FCSPS	20M

Analysis:

Bidder A:

The SLCC of bidder A is similar to the contract to be bid because it contains categories of works (FCCE and FCSPS) same as the Major Categories of Works of the contract to be bid. Also, the total cost of the SLCC, which is P65M, is greater than 50% of the ABC or P42.5M. Hence, the SLCC of bidder A meets the eligibility requirements for work experience for the contract to be bid.

Bidder B:

The SLCC of bidder B is similar to the contract to be bid because its single category (FHR) is similar to both Major Categories of Works of the contract to be bid which are FCCE and FCSPS. Also, the total cost of the SLCC, which is P45M, is greater than 50% of the ABC or P42.5M. Hence, the SLCC of bidder B meets the eligibility requirements for work experience for the contract to be bid.

Bidder C

The SLCC of bidder C contains a category of work (FCSPS) which is the same as one of the Major Categories of Works (FCSPS), however it does not contain the category of work which is the same as or similar to the other Major Category of Works (FCCE). Hence, the SLCC of Bidder C is not similar to the contract to be bid. . Consequently, the SLCC of bidder C does not meet the eligibility requirements for work experience for the contract to be bid.

Bidder D:

The SLCC of bidder D is similar to the contract to be bid because it contains categories of works (FCCE and FCSPS) which are the same as the Major Categories of Works of the contract to be bid. However, the total cost of the SLCC, which is P30M, is less than 50% of the ABC or P42.5M. Hence, the SLCC of bidder D does not meet the eligibility requirements for work experience for the contract to be bid.

REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

REGION V

CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE
BARAS, CANAMAN, CAMARINES SUR

CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR

LOCATION: RAGAY, CAMARINES SUR
13.878351, 122.664026

SUBMITTED BY:

RICHARD M. BALDON
CHIEF, CONSTRUCTION SECTION

RECOMMENDING APPROVAL:

JOSE ANGELO S. KARAGDAG
ASSISTANT DISTRICT ENGINEER

APPROVED BY:

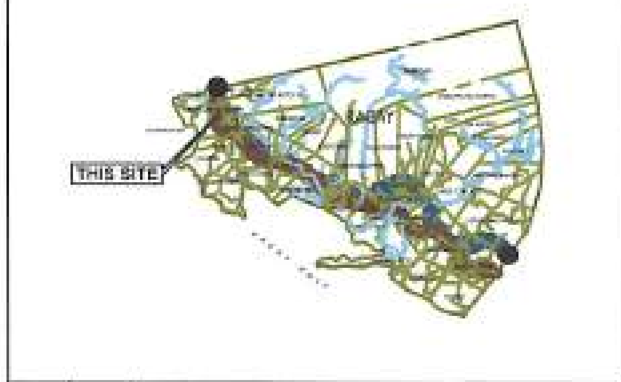
RAMON ANSELMO C. CALAGOS
DISTRICT ENGINEER

P E R S P E C T I V E

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
PART I	FACILITIES FOR THE ENGINEER		
I.1.1	Offices and Laboratory for the Engineer		
A.1.1(8)	Provision of Field Office for the Engineer (Rental Basis)	3.00	mo.
PART II	OTHER GENERAL REQUIREMENTS		
B.5(1)	Permit & Clearances	1.00	l.s.
B.5(1)	Project Billboard/ Signboard	1.00	ea.
B.7(1)	Occupational Safety and Health Program	1.00	l.s.
B.8(1)	Mobilization / Demobilization	1.00	l.s.
B.29(3)	Ramps	1.00	l.s.
B.29(4)	Stairs	1.00	l.s.
B.29(5)	Railings	1.00	l.s.
B.29(6)	Washroom and Toilets	1.00	l.s.
PART III	CIVIL, MECHANICAL, ELECTRICAL AND SANITARY/PLUMBING WORKS		
PART C	EARTHWORKS		
800(1)	Clearing and Grubbing	153.00	sq.m.
803(1)a	Structure Excavation, Common Soil	89.13	cu.m.
804(1)a	Embankment from Roadway/Structure Excavation (Common Soil)	57.38	cu.m.
804(2)a	Embankment from Borrow (Common Soil)	52.35	cu.m.
804(7)	Gravel Fill	21.94	cu.m.
PART D	REINFORCED CONCRETE		
900(1)a	Structural Concrete, 3000 psi, Class A, 28 days	47.84	cu.m.
902(1)a1	Reinforcing Steel (Deformed), Grade 40	8,020.00	kg.
903(2)	Formworks and Falseworks	335.83	sq.m.
PART E	FINISHINGS AND OTHER CIVIL WORKS		
C.1	Termite Control Works		
1000(1)	Soil Poisoning	20.01	lt.
C.2	Masonry Works		
1046(2)a1	CHB Non Load Bearing Wall (Including Reinforcing Steel), 100mm		sq.m.
1046(2)a2	CHB Non Load Bearing Wall (Including Reinforcing Steel), 150mm	115.38	sq.m.
C.3	Fabricated Materials		
1010(1)	Frames (Jambs, Sill, Head, Transoms and Mullions)	8.00	set
1010(2)a	Doors (Wood Panel)	3.20	sq.m.
1008(1)a	Aluminum Glass Window (Awning Type)	1.00	sq.m.
1006(1)a	Jalousie Window (Glass)	5.40	sq.m.
1005(1)	Residential Casement (Steel)	6.60	sq.m.
1005(5)	Window Accessory	1.00	l.s.
1004(3)	Finishing Hardware	1.00	l.s.
1009(17)	Carpentry and Joinery Works	1.00	l.s.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
C.4	Finishing Works		
1027(1)a	Cement Floor Finish (with Floor Hardener)	117.21	sq.m.
1027(1)	Cement Plaster Finish	388.72	sq.m.
1003(1)a1	Ceiling, 4.5mm Metal Frame, Fiber Cement Board	187.21	sq.m.
1038(1)	Reflective Insulation	102.00	sq.m.
1018(1)	Glazed Tiles and Trims	11.40	sq.m.
C.5	Painting Works		
1032(1)a	Painting Works (Masonry/Concrete)	557.22	sq.m.
1032(1)b	Painting Works (Wood)	16.54	sq.m.
1032(1)c	Painting Works (Steel)	4.00	sq.m.
C.6	Roof Framing and Roofing Works		
1014(1)a2	Prepainted Metal Sheets, Long Span, Corrugated Type, above 0.40mm thk.	102.00	sq.m.
1013(2)a	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls, gauge 26	9.00	l.m.
1013(2)b	Fabricated Metal Roofing Accessory (Flashings, gauge 26	22.60	l.m.
1016(1)a	Waterproofing (Cement Base)	12.00	sq.m.
1047(1)a	Metal Structure Accessories, Bolts and Rods	38.00	ea.
1047(1)b	Metal Structure Accessories, Turnbuckle	8.00	ea.
1047(2)a	Metal Structure Accessories, Sagrods	36.00	kg.
1047(3)a	Metal Structure Accessories, Cross Bracing	83.37	kg.
1047(3)a	Metal Structure Accessories, Steel Plates	471.00	kg.
1047(3)a	Structural Steel, Trusses	3,406.00	kg.
1047(3)b	Structural Steel, Purlins	682.13	kg.
PART D	PLUMBING/SANITARY WORKS		
1001(3)	Sewer Line Works	1.00	l.s.
1002(24)	Cold Water Line Works	1.00	l.s.
1001(8)	Storm Drainage / Downspout	1.00	l.s.
1002(4)	Plumbing Fixtures	1.00	l.s.
1001(11)	Septic Vault (Concrete/CHB)	1.00	l.s.
1001(30)	Catch Basin (CHB)	1.00	ea.
1261(1)	Water Pumping System	1.00	l.s.
1200(5)(2)	Fire Extinguisher (4.5Kg.), CO2 HCFC123 with Bracket	1.00	set
PART G	ELECTRICAL		
1100(10)	Conduits, Boxes, and Fittings (Conduit Works/ Conduit Rough-in)	1.00	l.s.
1101(33)	Wires and Wiring Devices	1.00	l.s.
1102(1)	Panelboard with Main & Branch Breaker	1.00	l.s.
1200(1)	Ventilating Equipment	1.00	l.s.
1103(1)	Lighting Fixtures	1.00	l.s.
1300(1)	Fire Alarm System	1.00	l.s.



1 SCALE: NTS LOCATION MAP

2 SCALE: NTS VICINITY MAP

TABLE OF CONTENTS

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIALS

DISTRICT / CITY / MUNICIPALITY

LAND USE AND ZONING

LINE AND GRADE

ARCHITECTURAL

STRUCTURAL

ELECTRICAL

MECHANICAL

SANITARY

PLUMBING

ELECTRONICS

GEODETIC ENGINNEER

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR
RAGAY, CAMARINES SUR

SHEET CONTENTS:
PERSPECTIVE
SITE DEVELOPMENT PLAN
LOCATION PLAN
VICINITY MAP
SUMMARY OF QUANTITIES

PREPARED BY: KIRK HAMREL ALANO
CADD BY: ERIKA MARIE V. LOZANO
CHECKED BY: DON ARIES A. PARAFINA

SUBMITTED BY: RICHARD M. BALDON, CHIEF - CONSTRUCTION SECTION

RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG, ASSISTANT DISTRICT ENGINEER

APPROVED BY: RAMON ANSELMO C. CALAGOS, DISTRICT ENGINEER

CHECKED BY: VIRGILIO B. BANCASO, DIVISION ENGINEER III, CAMARINES SUR

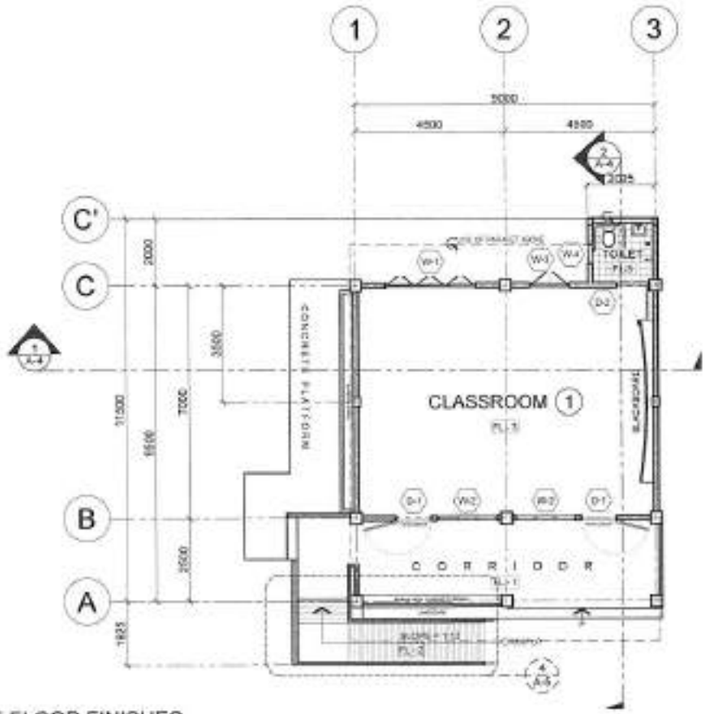
CONCURRED BY: NORMA B. SAMANTELA, CESO V, SCHOOL DIVISION SUPERINTENDENT

SET NO: 1 / A 10

SHEET NO: 02 / 25

1 SCALE 1:300 M

SITE DEVELOPMENT PLAN



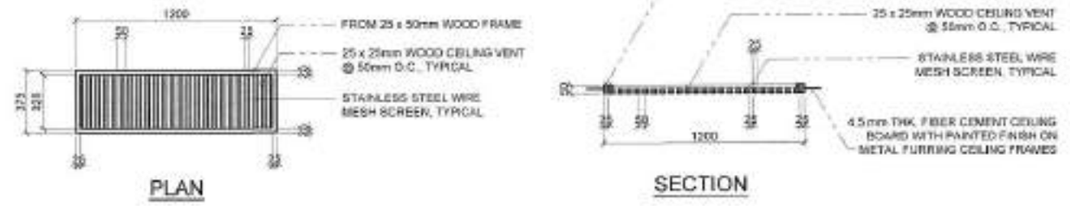
SCHEDULE OF FLOOR FINISHES

MARK	DESCRIPTION
FL - 1	NON-SKID PLAIN CEMENT FINISH
FL - 2	NON-SKID PLAIN CEMENT FINISH WITH 6mm GROOVE @ EVERY 100mm O.C
FL - 3	400 X 400 mm UNGLAZED TILES FLOOR FINISH

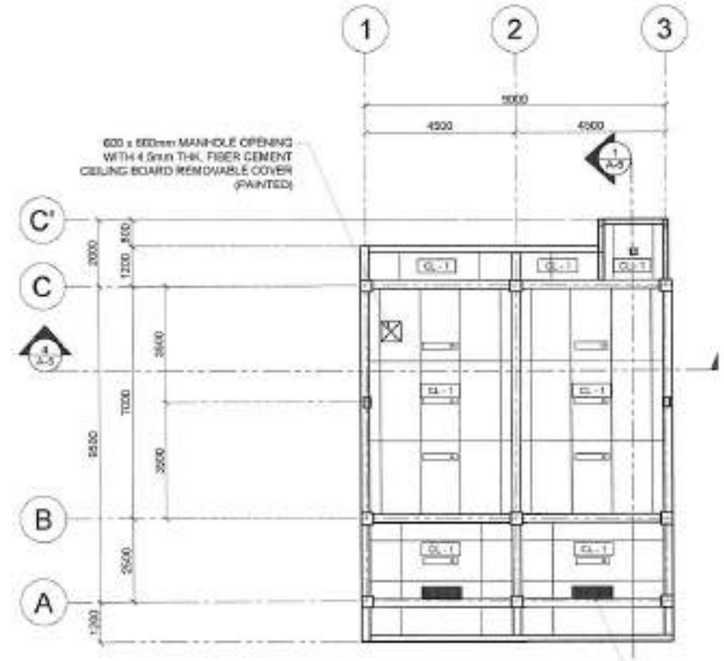
NOTES: FOR EASTERN SEABOARDS SCHOOL BUILDINGS PRONE TO CORROSION, ROOFING MATERIALS CAN BE CHANGED TO ASPHALT CORRUGATED ROOFING SHEETS (CELULOSE BITUMEN) WITH APPROPRIATE SPACING OF PURLINS (REFER TO MANUFACTURER'S SPECIFICATIONS)

2 SCALE 1:100 M

FLOOR PLAN



DETAIL OF CEILING AIR-VENT



SCHEDULE OF CEILING FINISHES

MARK	DESCRIPTION
CL - 1	4.5mm THK. FIBER CEMENT CEILING BOARD ON METAL FURRING CEILING FRAME 0.60 mm THK. X 19 mm X 38 mm X 5000 mm DOUBLE FURRING CHANNELS AT 400 mm ON CENTER WITH 0.60 mm THK. X 12 mm. X 38 mm. X 5000 mm CARRYING CHANNELS AT 1200 mm ON CENTER AND ROD JOINER (HANGER/SUPPORTS) AT 1200 mm ON CENTER, SHORTER SPAN

3 SCALE 1:100 M

REFLECTED CEILING PLAN

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR
RAGAY, CAMARINES SUR

SHEET CONTENTS:
SITE DEVELOPMENT PLAN
FLOOR PLAN
REFLECTED CEILING PLAN
SCHEDULE OF FLOOR FINISHES
SCHEDULE OF CEILING FINISHES

PREPARED BY:
KIRK [illegible] ALANO
CADD BY:
ERIKA MAUREEN V. LOZANO
CHECKED BY:
DON AGRIES A. HARAFINA
ENGINEER II

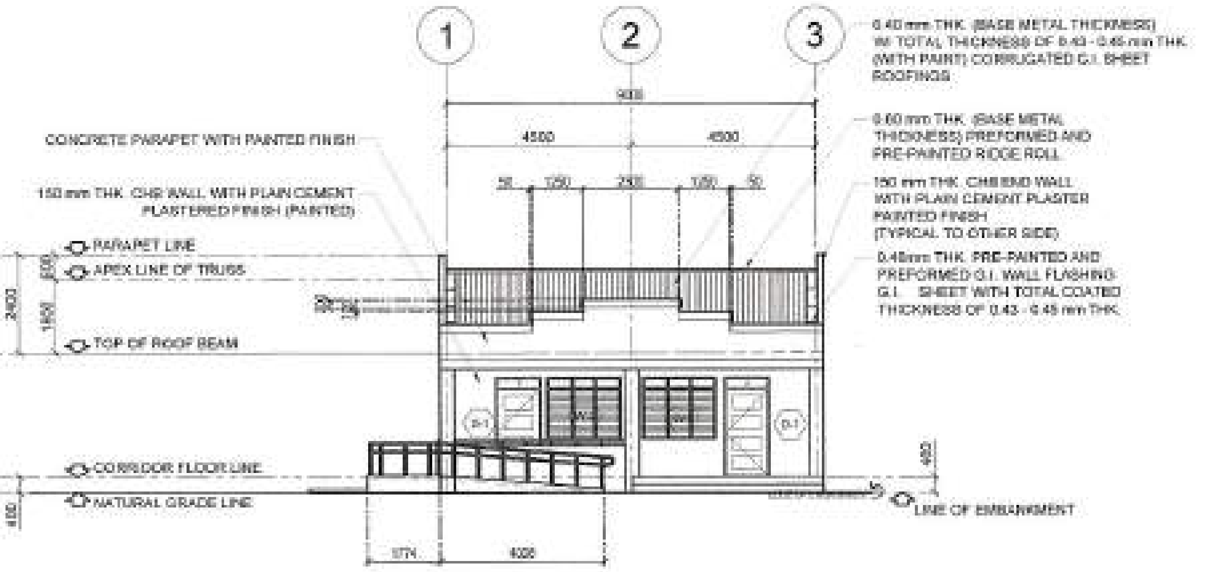
SUBMITTED BY:
RICHARD M. BALDON
CHIEF - CONSTRUCTION SECTION

RECOMMENDING APPROVAL:
JOSE ANGELO S. KARAGDAG
ASSISTANT DISTRICT ENGINEER

APPROVED BY:
RAMON ANSELMO C. CALAGOS
DISTRICT ENGINEER

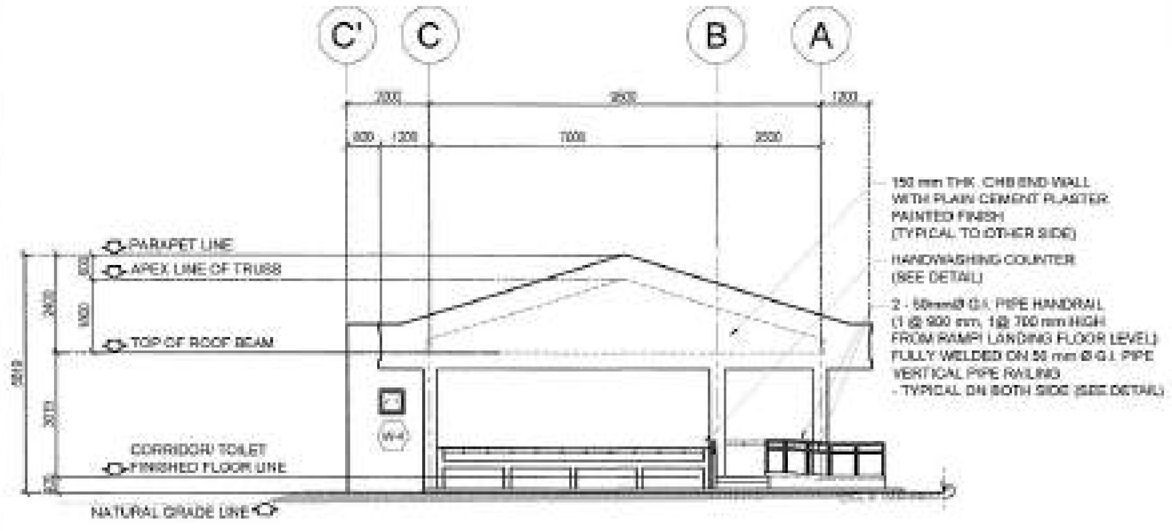
CHECKED BY:
VIRGILIO M. [illegible]
DIVISION SUPERINTENDENT
CONCURRED BY:
NORMA B. SAMANTELA, CESO V
SCHOOL DIVISION SUPERINTENDENT

SET NO: 2 A 10
SHEET NO: 03 29



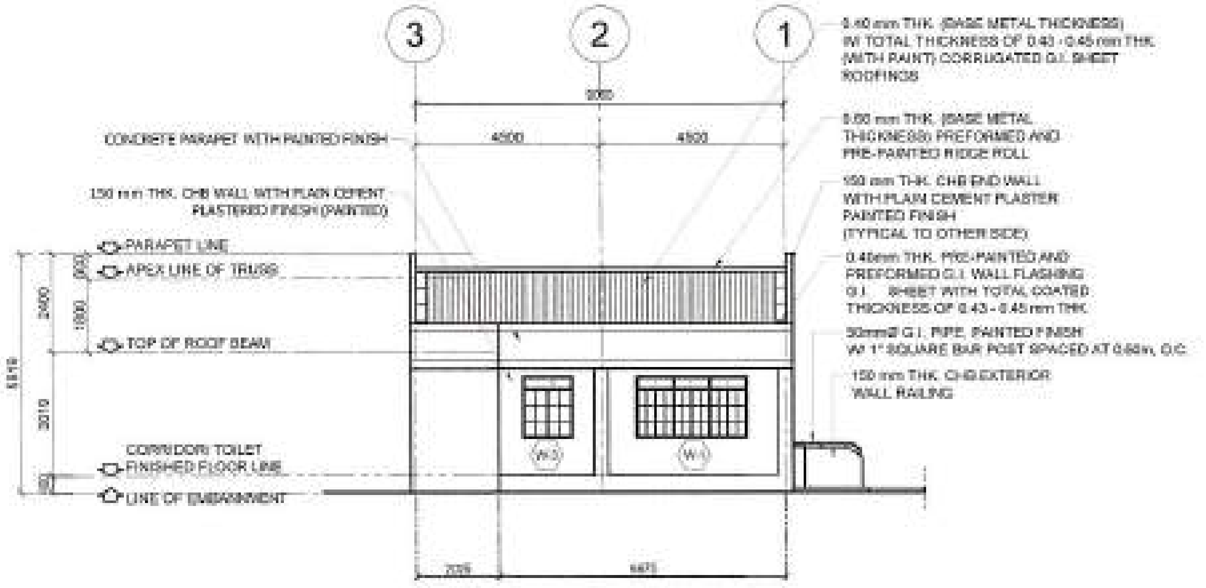
1 FRONT ELEVATION

SCALE: 1:100 M



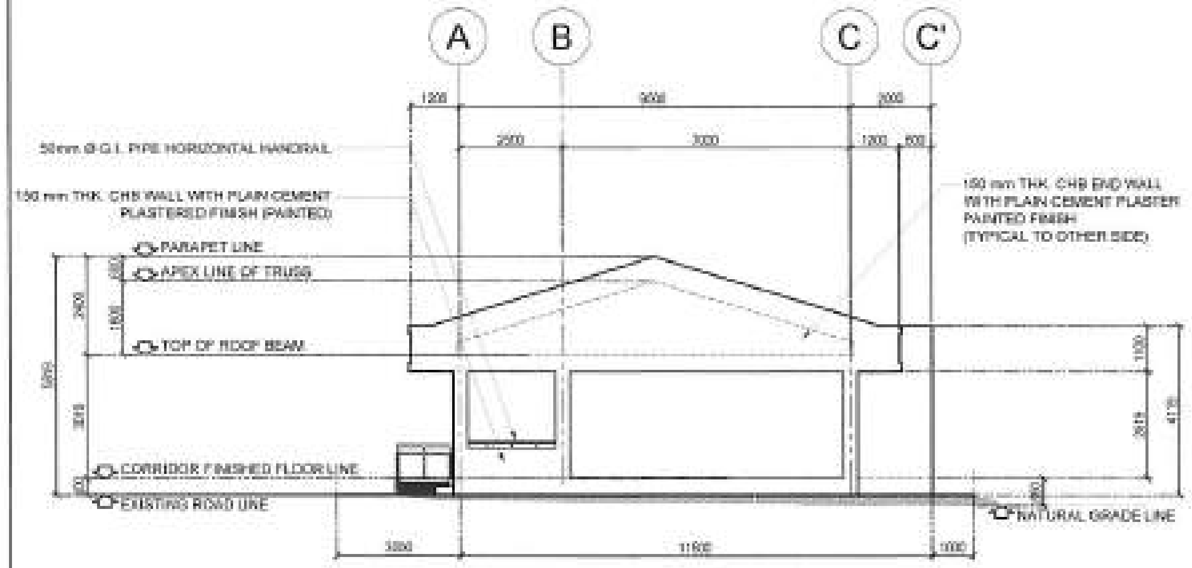
3 LEFT SIDE ELEVATION

SCALE: 1:100 M



2 REAR VIEW ELEVATION

SCALE: 1:100 M



4 RIGHT SIDE ELEVATION

SCALE: 1:100 M

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR
RAGAY, CAMARINES SUR

SHEET CONTENTS:
FRONT ELEVATION
REAR VIEW ELEVATION
RIGHT SIDE ELEVATION
LEFT SIDE ELEVATION

PREPARED BY: KIRK HAM... CALANO, ENGINEER
CADD BY: ERIKA MAR... V. LOZANO
CHECKED BY: DON A... A. PARAFINA, ENGINEER

SUBMITTED BY: ... BALDON, CHIEF - CONSTRUCTION SECTION

RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG, ASSISTANT DISTRICT ENGINEER

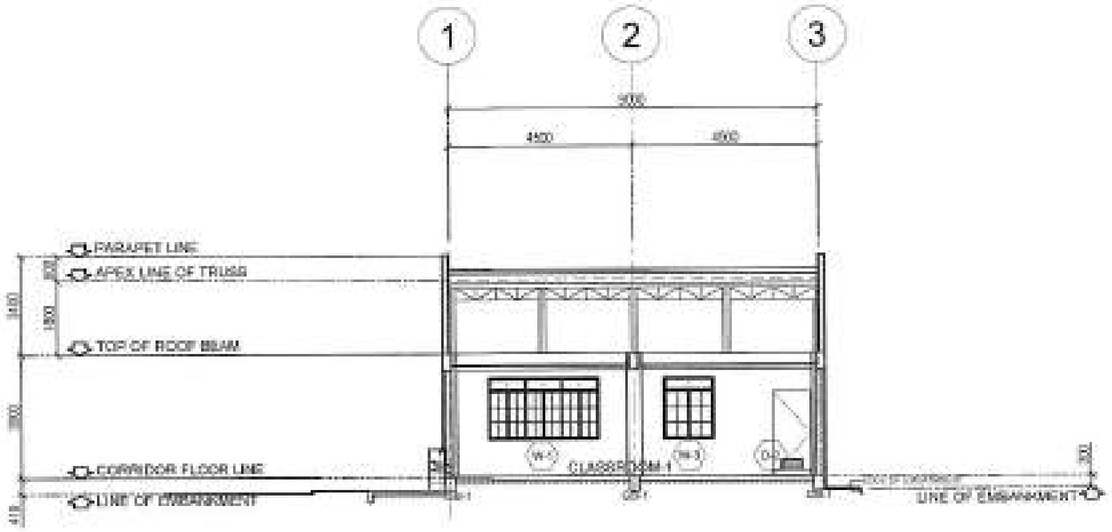
APPROVED BY: RAMON ANSELMO C. CALAGOS, DISTRICT ENGINEER

CHECKED: VIRGILIO ... DIVISION ENGINEER III, CAMARINES SUR

CONCURRED: NORMA B. SAMANTELA, CESO V, SCHOOL DIVISION SUPERINTENDENT

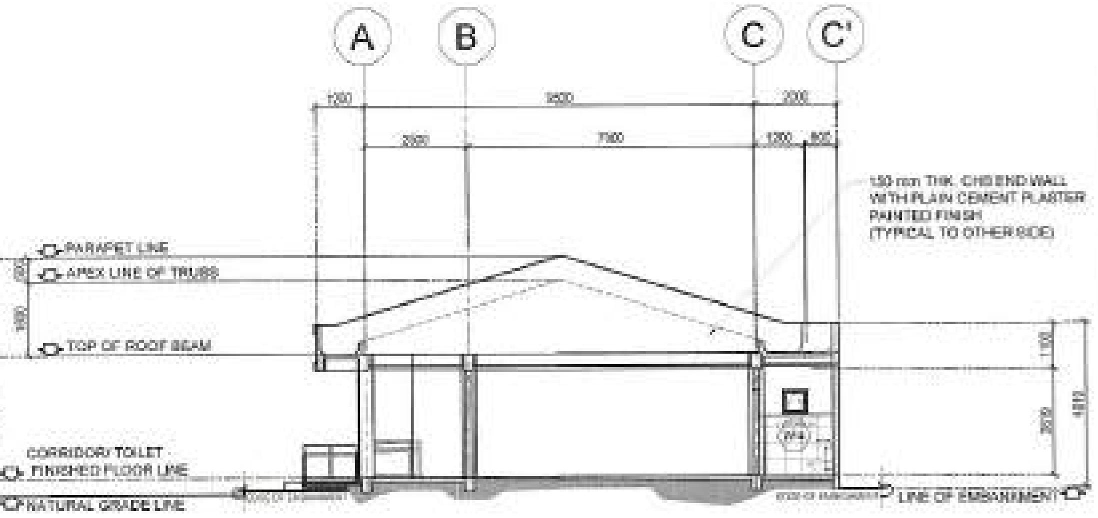
SET NO.: 3 / A 10

SHEET NO.: 04 / 25



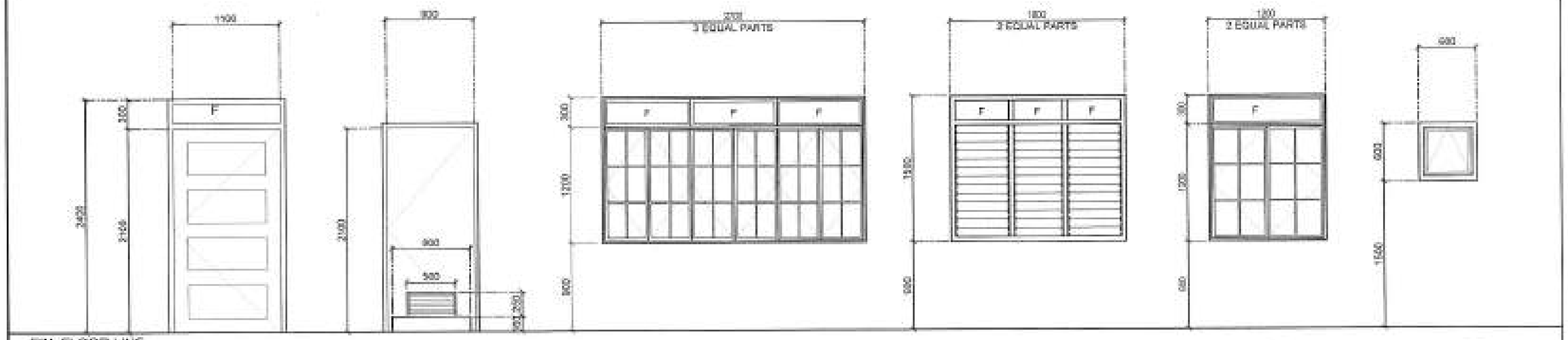
1 SCALE 1:100 M

LONGITUDINAL SECTION



2 SCALE 1:100 M

CROSS SECTION



FIN. FLOOR LINE

D-1

WOOD PANEL DOOR, SWING TYPE WITH PAINTED FINISH WITH 6 mm THICK FIXED CLEAR GLASS TRANSOM ABOVE ON 50 X 150 mm WOOD DOOR JAMB (PAINTED)

LOCKSET: KEYED, HALF ROUND DOOR KNOB
HINGES: 4 PCS. 4" X 4" DOOR HINGES
NO. OF SET: 2 SET

D-2

HOLLOW CORE FLUSH DOOR WITH 6 mm THK. MARINE PLYWOOD FACINGS, WATERPROOFED & PAINTED FINISH ON 50 X 150 mm WOOD DOOR JAMB (PAINTED) PROVIDE 6 mm THK. X 150 X 650 mm KICKED-OFF PLATE BELOW, BOTH SIDES.

LOCKSET: LEVER TYPE DOOR LOCK
HINGES: 4 PCS. 4" X 4" DOOR HINGES
NO. OF SET: 1 SET

W-1

CASEMENT WINDOW W/ 6mm CLEAR GLASS ON STEEL FRAMING & FIXED GLASS TRANSOM (PROVIDE WINDOW GRILLE INSIDE, REFER TOO MANUFACTURER'S SPECS.

NO. OF SET: 1 SET (REAR ELEVATION OF CLASSROOMS)

W-2

STEEL JAMB JALOUSIE WINDOW WITH CLEAR GLASS BLADES AND WITH FIXED CLEAR GLASS TRANSOM

NO. OF SET: 2 SETS (FRONT ELEVATION OF CLASSROOMS)

W-3

CASEMENT WINDOW W/ 6mm CLEAR GLASS ON STEEL FRAMING & FIXED GLASS TRANSOM (PROVIDE WINDOW GRILLE INSIDE, REFER TOO MANUFACTURER'S SPECS.

NO. OF SET: 1 SET (REAR ELEVATION OF CLASSROOMS)

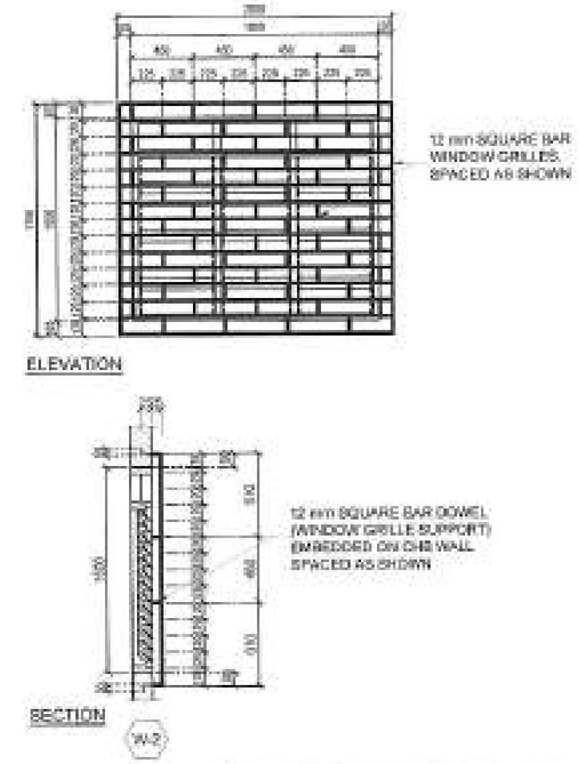
W-4

STEEL JAMB AWNING TYPE WINDOW W/ CLEAR GLASS TRANSOM

NO. OF SETS: 1 SET TOILET

3 SCALE 1:30 M

SCHEDULE OF DOORS AND WINDOW

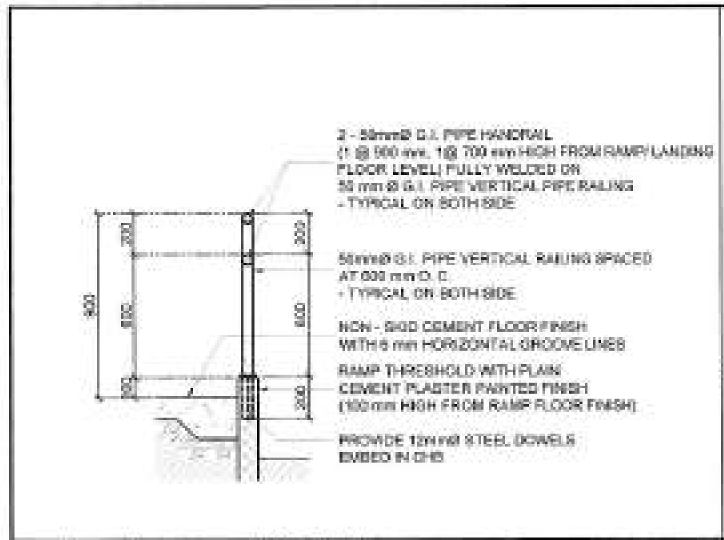


4 SCALE 1:30 M

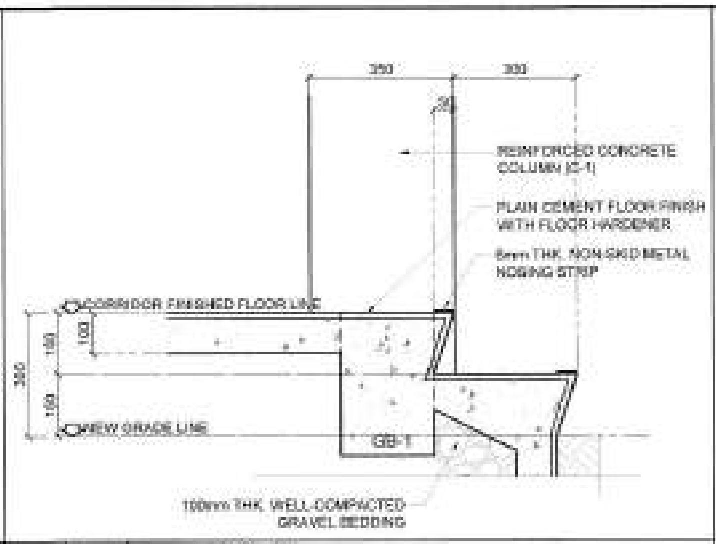
WINDOW GRILLE DETAIL

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Sanas, Calabanga, Camarines Sur

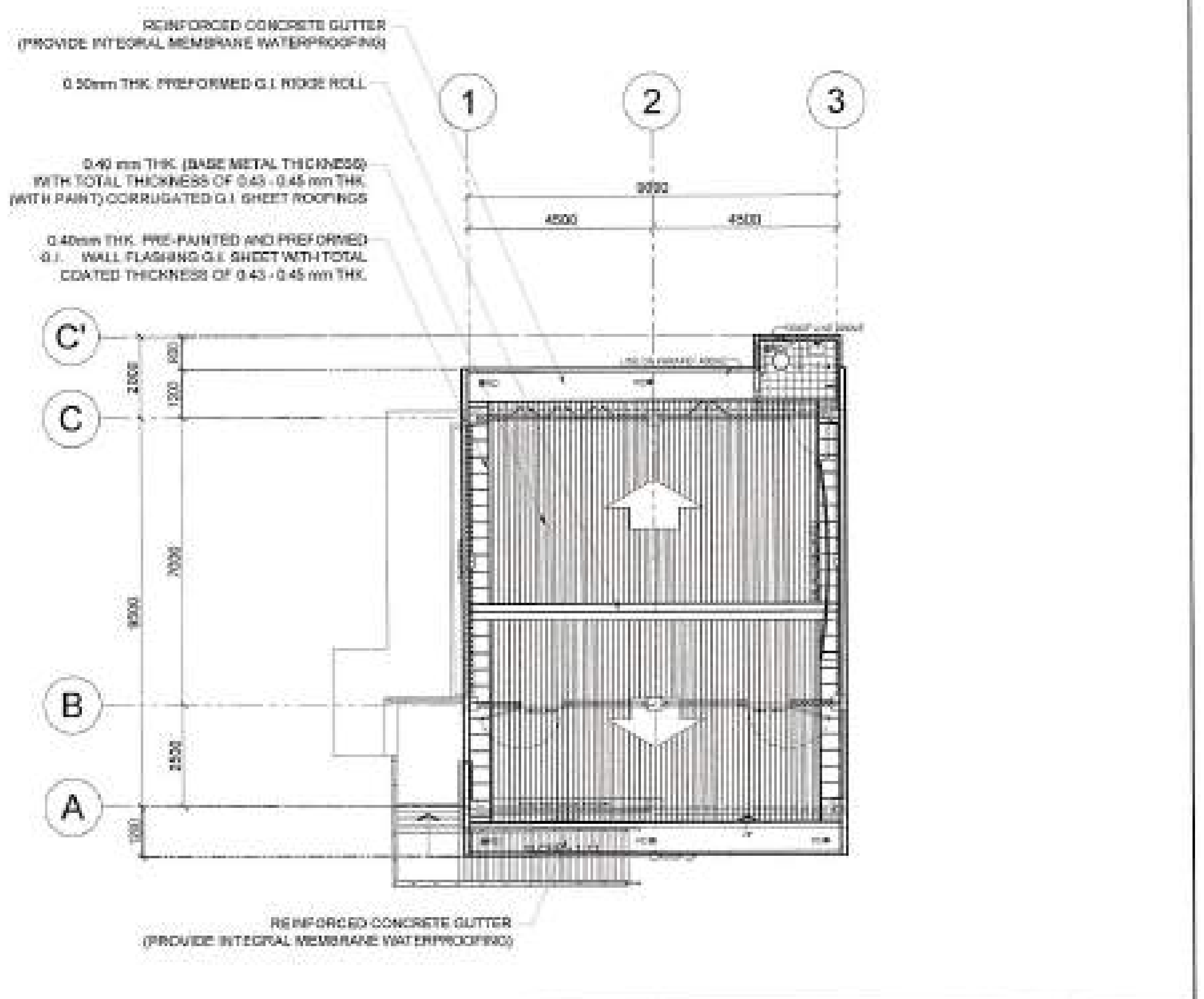
PROJECT TITLE AND LOCATION:	SHEET CONTENTS:	PREPARED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	CHECKED BY:	SET NO:	SHEET NO:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR	LONGITUDINAL SECTION CROSS SECTION SCHEDULE OF DOORS AND WINDOWS WINDOW GRILLE DETAIL	KIRK HAMM... ALANO	... BALDON	JOSE ANGELO S. KARAGDAG	RAMON ANSELMO C. CALAGOS	VIRGILIO B. BANCASO	A	05
RAGAY, CAMARINES SUR		CADD BY: ERIKA MA... LOZANO	CHIEF - CONSTRUCTION SECTION	ASSISTANT DISTRICT ENGINEER	DISTRICT ENGINEER	DIVISION ENGINEER II CAMARINES SUR	A 10	25
		CHECKED BY: DON ARIEL A. PARAFINA				CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT		



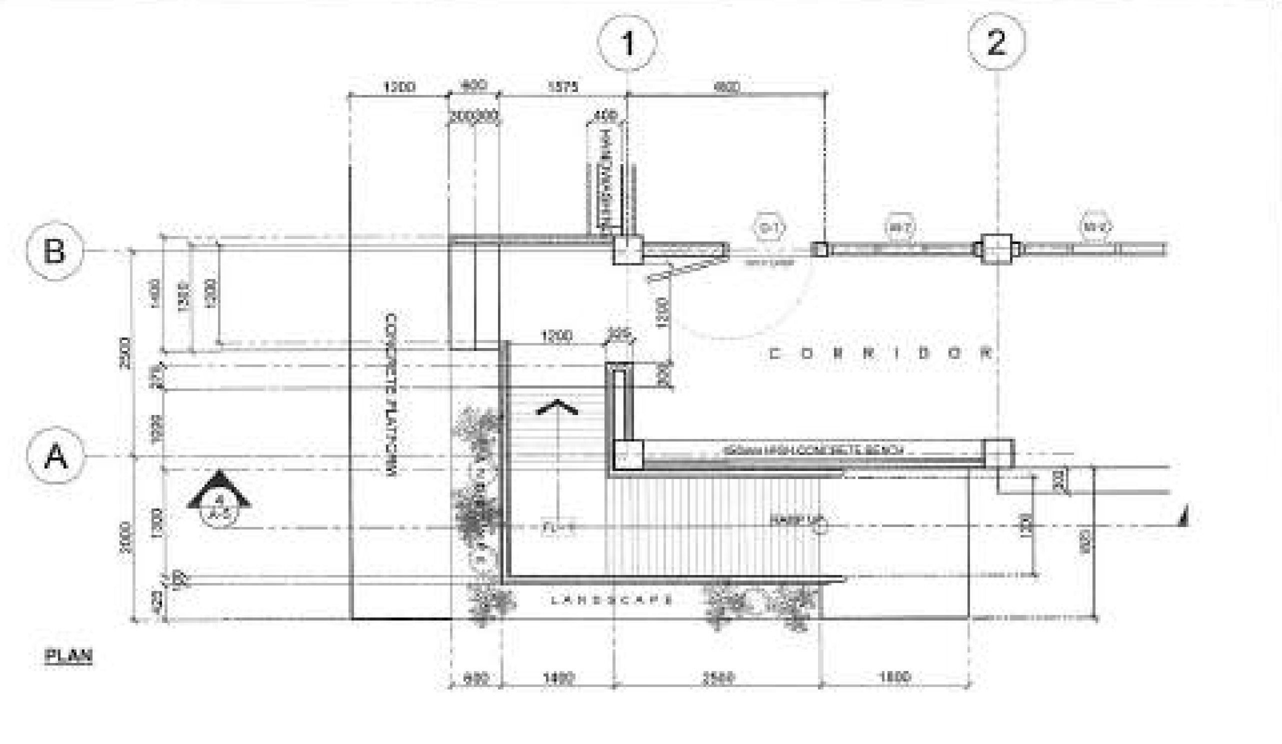
2 SCALE 1:25 M SPOT DETAIL RAILING / HANDRAIL

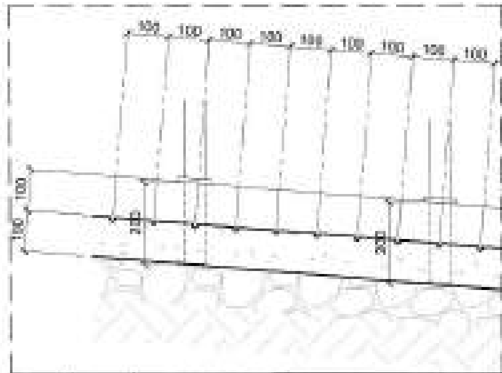


3 SCALE 1:10 M SPOT DETAIL REINFORCED CONCRETE STAIR WITH NON-SKID METAL NOSING STRIP

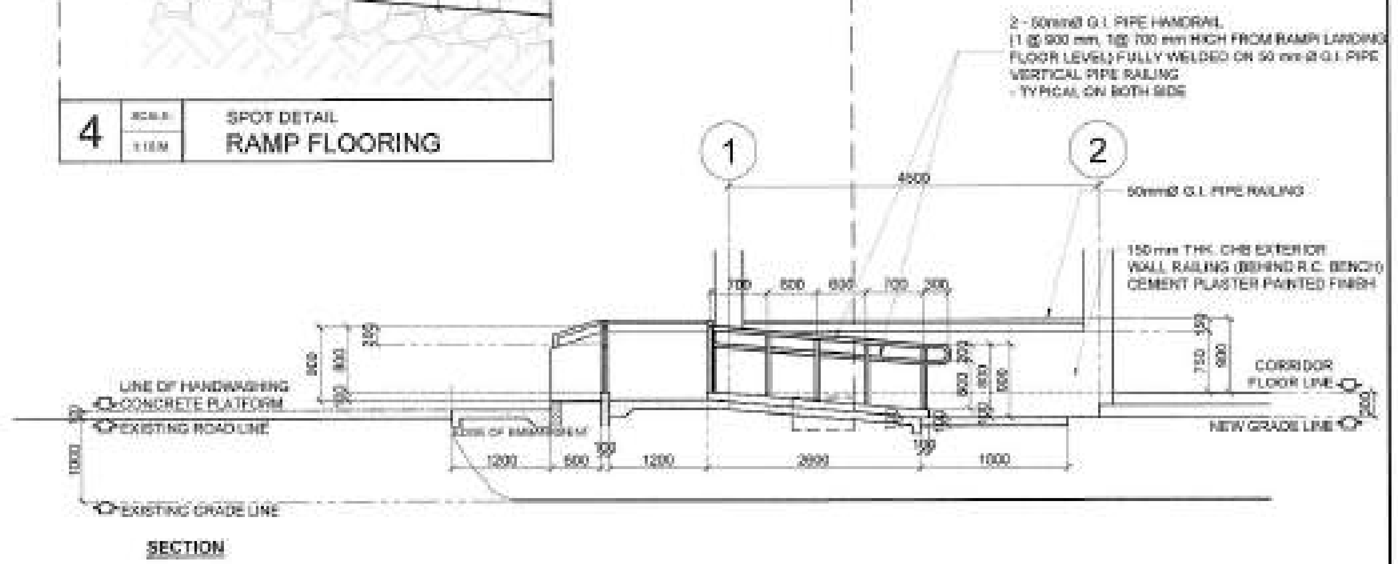


1 SCALE 1:100 M ROOF PLAN



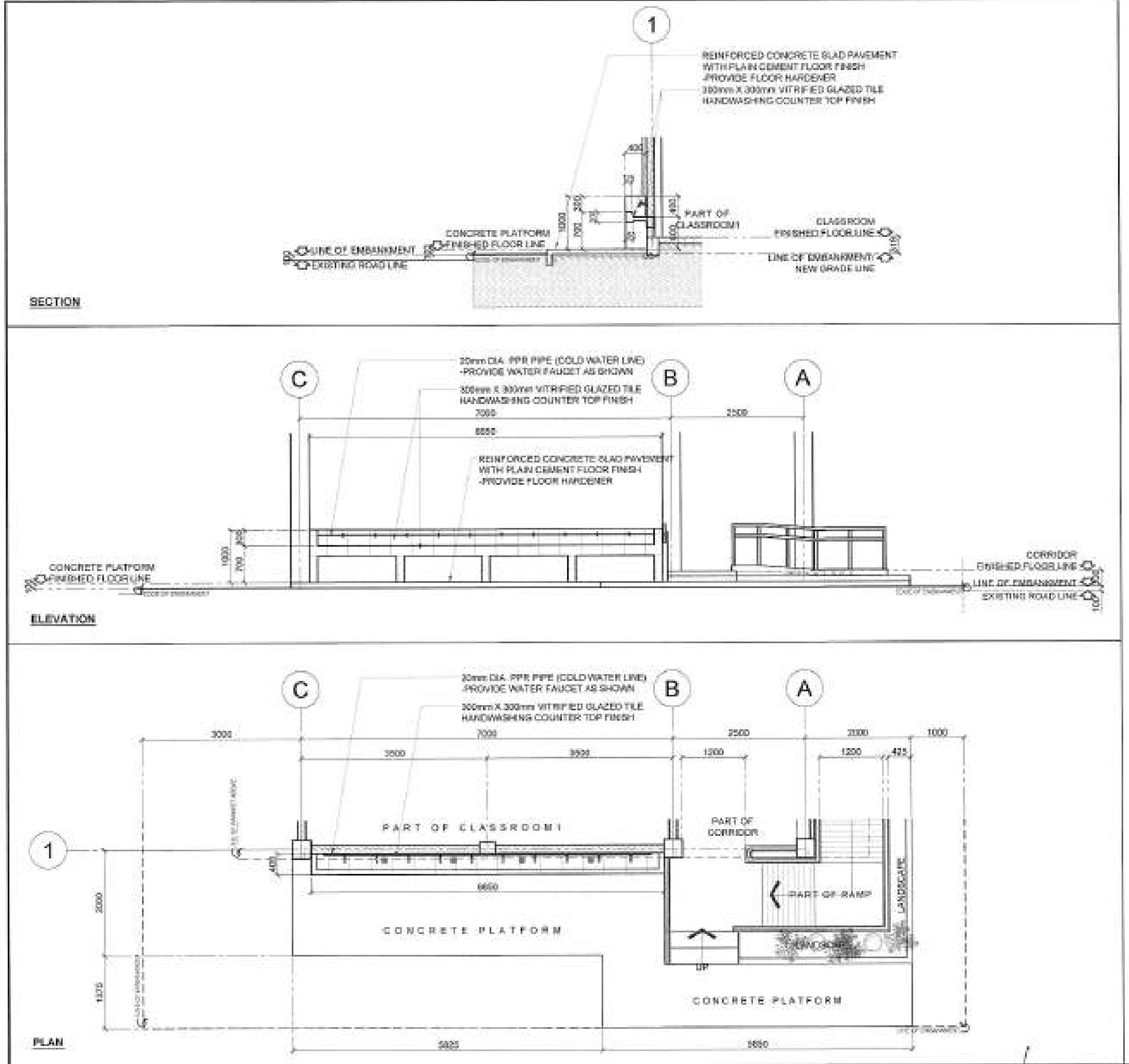


4 SCALE 1:10 M SPOT DETAIL RAMP FLOORING



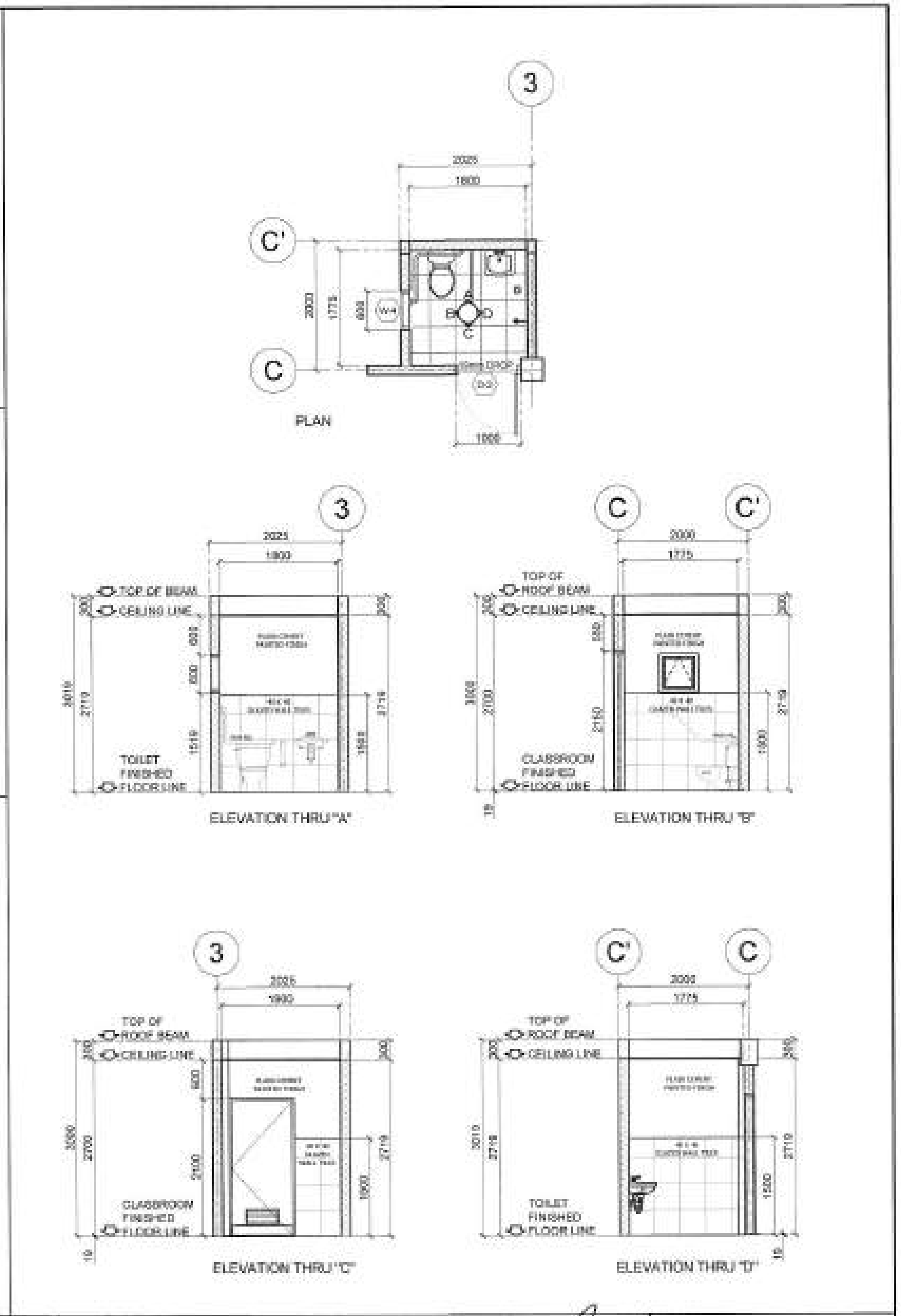
4 SCALE 1:100 M RAMP DETAIL

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Baras, Canaman, Camarines Sur	PROJECT TITLE AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR RAGAY, CAMARINES SUR	SHEET CONTENTS: ROOF PLAN SPOT DETAIL RAILING / HANDRAIL SPOT DETAIL REINFORCED CONCRETE STAIR W/ NON-SKID METAL NOSING STRIP RAMP DETAIL	PREPARED BY: KIRK HARVEY C. ALANO CADD BY: ERIKA MARIEL V. LOZANO CHECKED BY: DON ARIEL T. PARAFINA	SUBMITTED BY: RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	APPROVED BY: RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	CHECKED BY: VIRGILIO B. BANCASO DIVISION ENGINEER III, CAMARINES SUR CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	SET NO: 5 A 10	SHEET NO: 08 29



1 SCALE

DETAIL OF HANDWASHING COUNTER

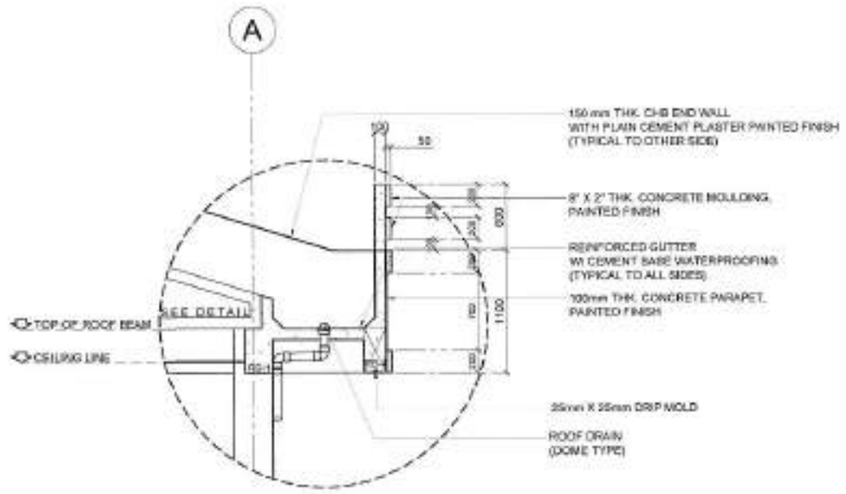


2 SCALE 1:50 M

TOILET DETAIL

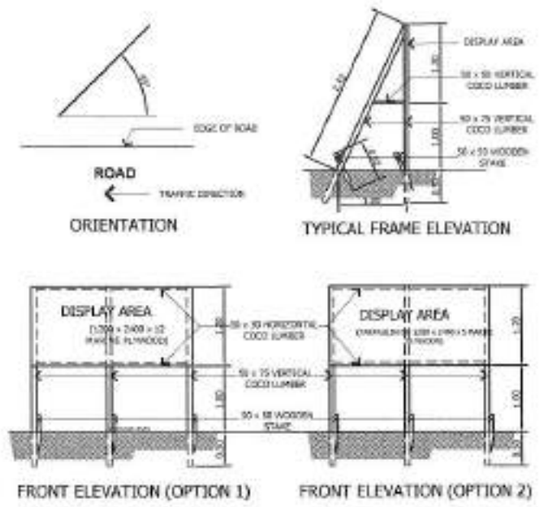
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Basa, Camarines Sur	PROJECT TITLE AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR** RAGAY, CAMARINES SUR	SHEET CONTENTS: DETAIL OF HANDWASHING COUNTER TOILET DETAIL	PREPARED BY: KIRK HAMMET ... ALANO CADD BY: ERIKA MA... V. LOZANO CHECKED BY: DON ARIES ... PARAFINA

SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	CHECKED BY: / CONCURRED BY:	SET NO:	SHEET NO:
RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	6 A 10	07 25

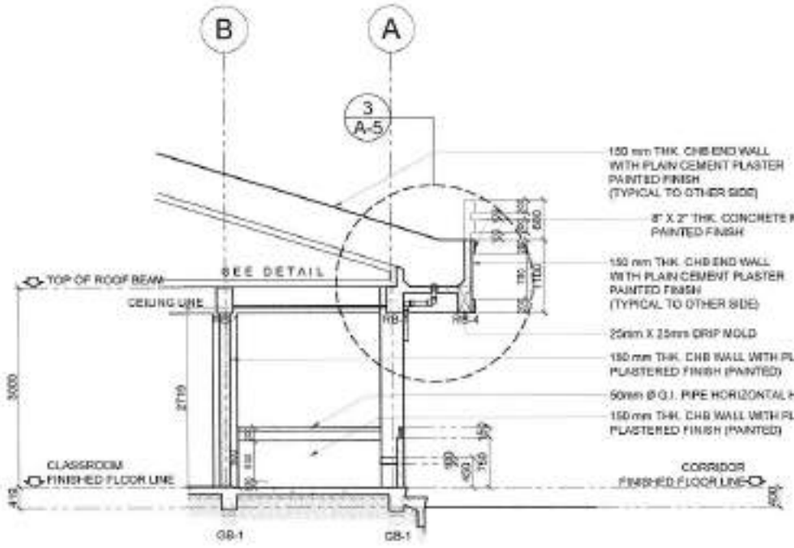


2 | SCALE: 1:30 M | SPOT DETAIL
REINFORCED CONCRETE GUTTER

ISOMETRIC



3 | SCALE: 1:30 M | PROJECT BILLBOARD FRAME DETAIL



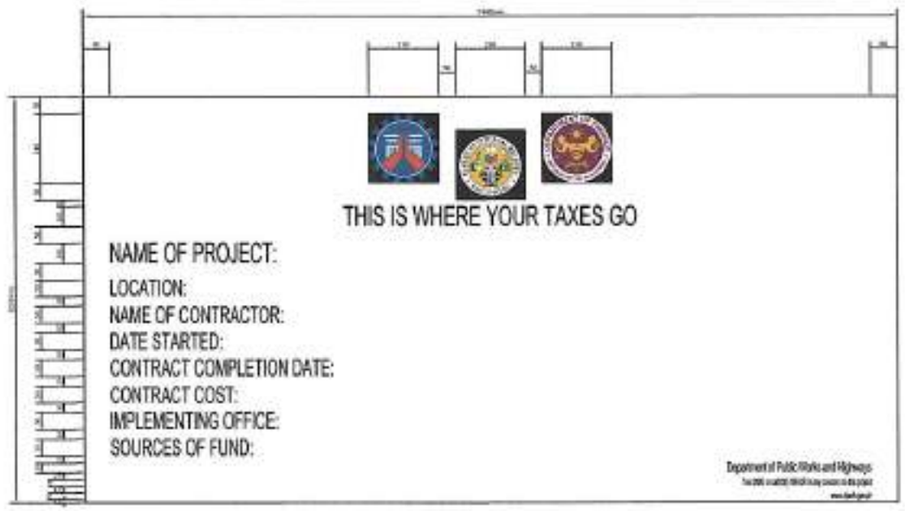
1 | SCALE: 1:50 M | DETAILED BAY SECTION

TARPAULINE SHOULD ADHERE TO D.O. 21 SERIES OF 2017
PREPARATION AND INSTALLATION GUIDELINES:

1. THE NEW BILLBOARD DESIGN LAYOUT AND DIMENSION (SEE ATTACHED DRAWING)
   SHALL BE INSTALLED ON A STANDARD BILLBOARD MEASURING 1200mm X 2400mm
   (4ft.X8ft.) USING 12mm (1/2 inch) THICK MARINE PLYWOOD OR TARPAULIN POSTED
   ON 5mm (3/16inch) MARINE PLYWOOD.
2. FOR EACH BUILDING PROJECT , THE BILLBOARD SHALL BE INSTALLED IN FRONT OF
   THE PROJECT SITE.
3. NAME(S) AND/OR PICTURE(S) OF ANY PERSONAGES SHOULD NOT APPEAR IN THE BILLBOARD.
4. NO POLITICAL BILLBOARD SHALL BE ALLOWED TO BE INSTALLED 100 METERS BEFORE AND 100 METERS AFTER ALL DPWH PROJECTS AND IN BETWEEN THE PROJECT LIMITS OR WITHIN THE ROAD RIGHT-OF-WAY.
5. DPWH CONTRACTORS SHALL NOT BE ALLOWED TO PLACE NAMES OF POLITICIANS ON THEIR EQUIPMENT OR CARRY POLITICAL BILLBOARD ON THEIR EQUIPMENT.

CONSTRUCTION SAFETY AND HEALTH:

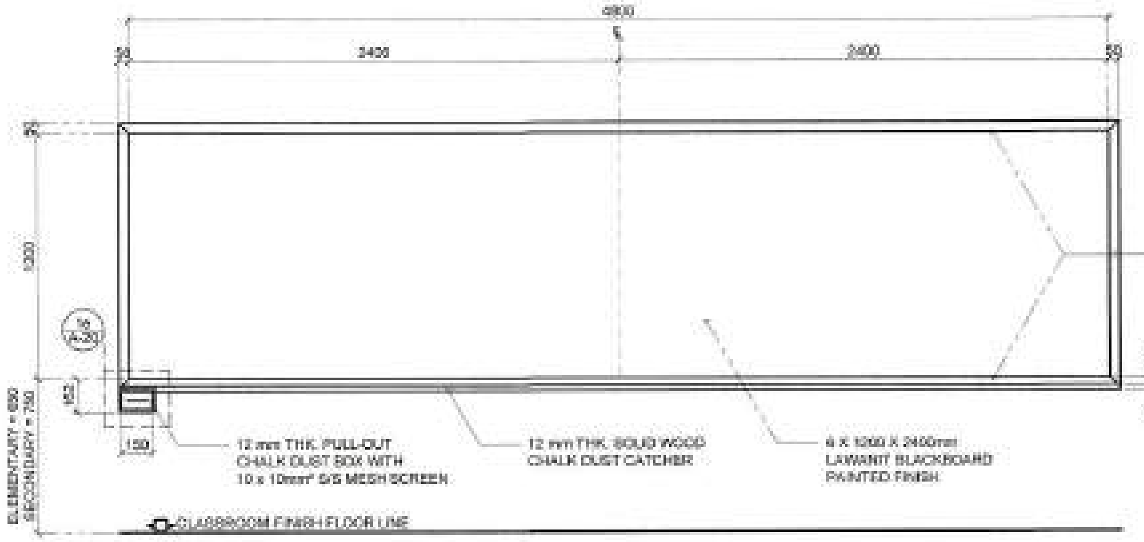
THE CONTRACTOR SHALL EMPLOY PERMANENTLY ON THE SITE A FULLY TRAINED MEDICAL AIDE, WHO SHALL BE ENGAGED SOLELY ON MEDICAL DUTIES.



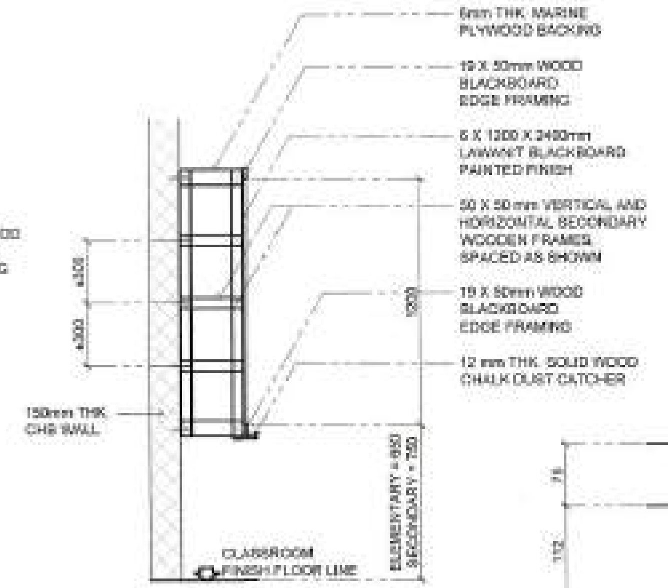
4 | SCALE: 1:10 M | PROJECT BILLBOARD DETAIL

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Calabanga, Camarines Sur

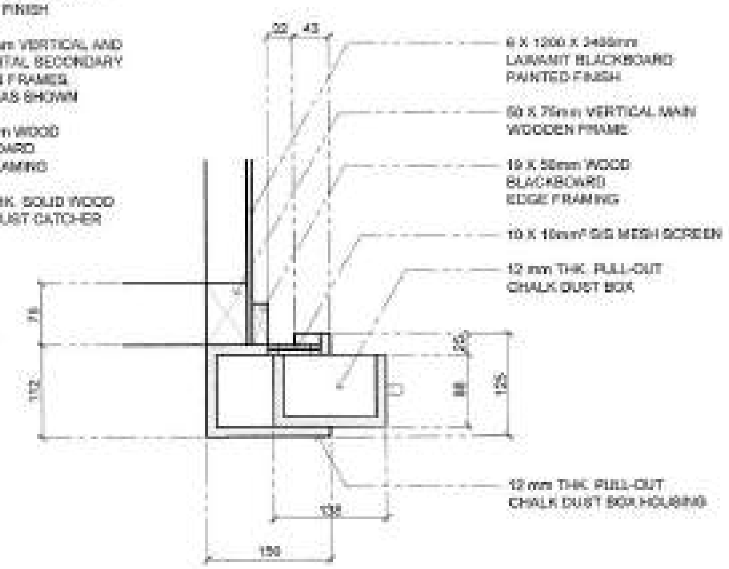
PROJECT TITLE AND LOCATION	SHEET CONTENTS	PREPARED BY	SUBMITTED BY	RECOMMENDING APPROVAL	APPROVED BY	CHECKED BY	SET NO.	SHEET NO.
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR RAGAY, CAMARINES SUR	DETAILED BAY SECTION WITH DETAIL: R.C. CONCRETE GUTTER PROJECT BILLBOARD DETAIL PROJECT BILLBOARD FRAME DETAIL	KIRK HAMMETT L. ALANO CAD OPR. ERIKA MARIETTA LOZANO CHECKED BY: DON ARNELL PARAFINA	RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	RAMON ANGELMO C. CALAGOS DISTRICT ENGINEER	VIRGILIO B. BANCASO DISTRICT ENGINEER III, CAMARINES SUR CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	7 A 10	08 26



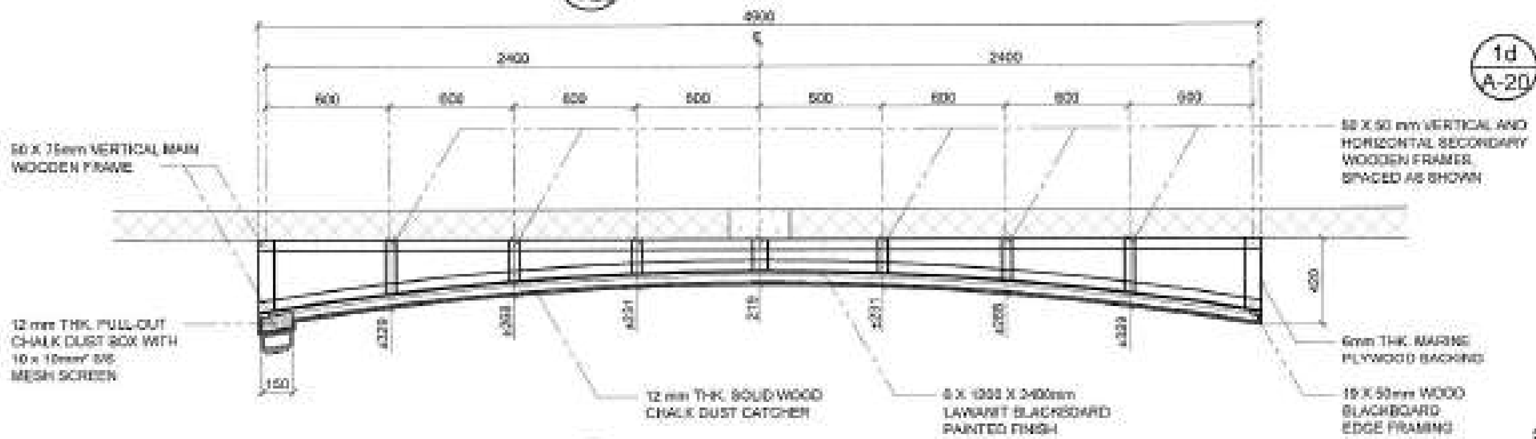
1c ELEVATION (FRONT VIEW)
A-20 SCALE 1:20 M.



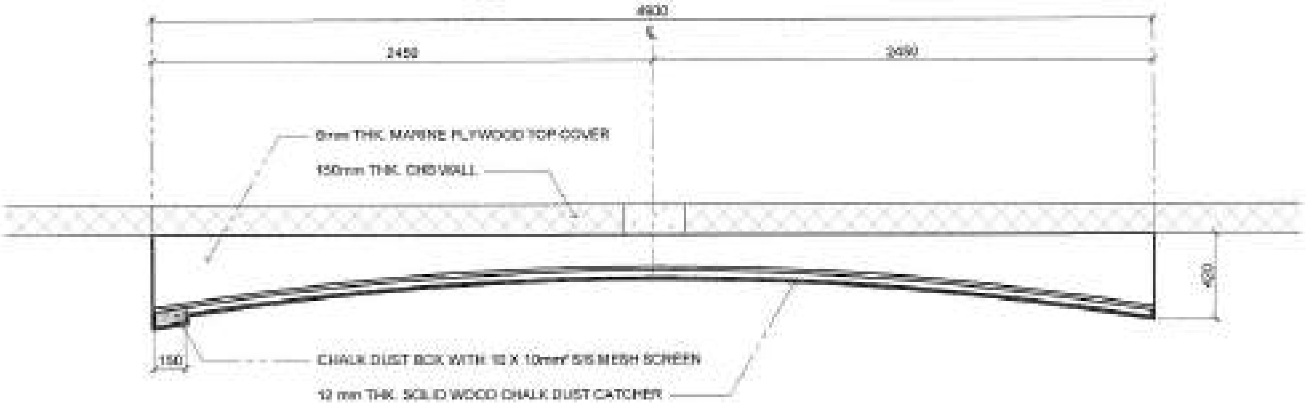
1d SECTION (SIDE VIEW)
A-20 SCALE 1:20 M.



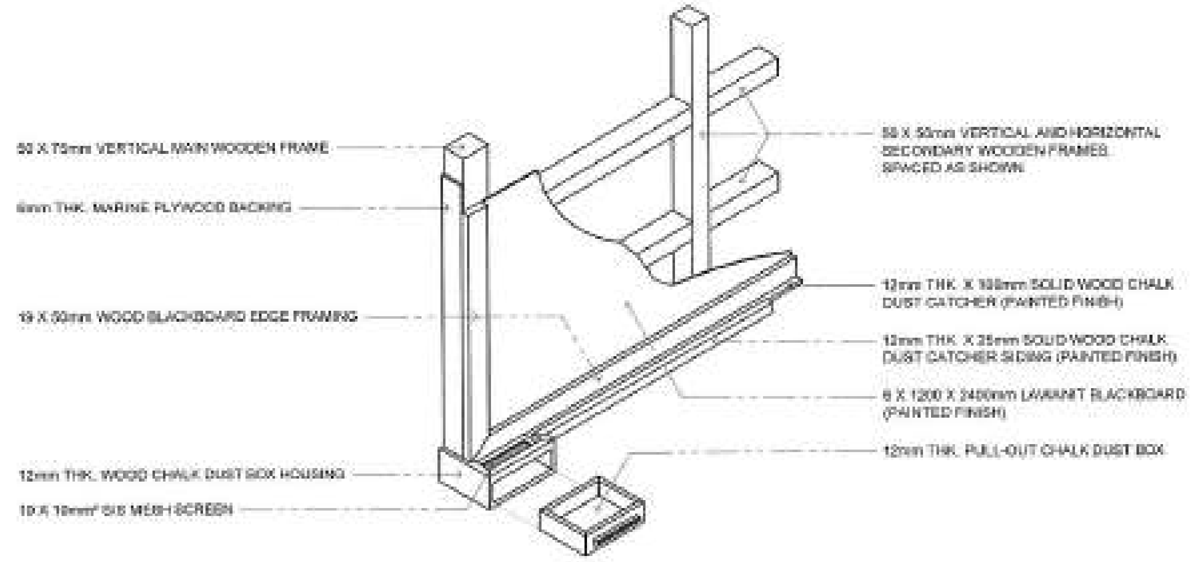
1e DETAIL SECTION (CHALK DUST BOX)
A-20 SCALE 1:5 M.



1b PLAN (SECTINONAL VIEW)
A-20 SCALE 1:20 M.



1a PLAN (TOP VIEW)
A-20 SCALE 1:20 M.



1f CHALK DUST BOX DETAIL (ISOMETRIC VIEW)
A-20 NOT TO SCALE

1 SCALE: AS SHOWN

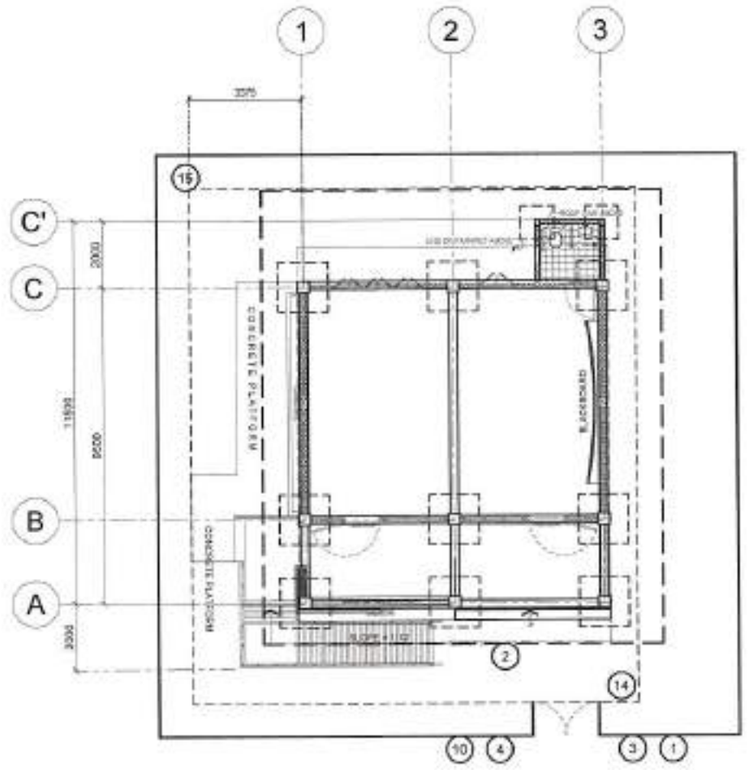
BLACKBOARD DETAILS

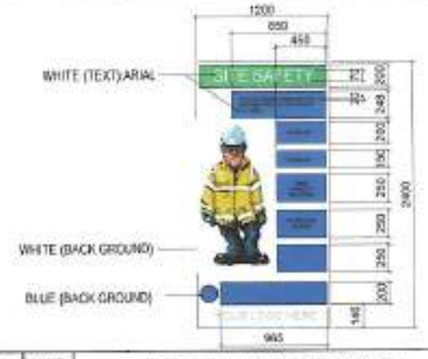
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Baras, Canaman, Camarines Sur	PROJECT TITLE AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR RAGAY, CAMARINES SUR	SHEET CONTENTS: BLACKBOARD DETAILS	PREPARED BY: KIRK HAWNE M. LOZANO CADD BY: ERIKA MARISH V. LOZANO CHECKED BY: DON ARIES A. PARAFINA	SUBMITTED BY: RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	APPROVED BY: RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	CHECKED: VIRGILIO B. BANDASO DIVISION ENGINEER II, CAMARINES SUR CONCURRED: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	SET NO: 8 A 10	SHEET NO: 09 25

LEGEND

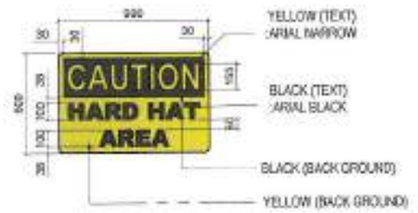
①		④		⑦		⑩		⑬	
②		⑤		⑧		⑪		⑭	
③		⑥		⑨		⑫		⑮	

⑭		ADVISED TO BE INSTALLED ON AREA WHERE WELDING WORKS FOR STEEL ROOF FRAMING ARE ON- GOING
⑨		ADVISED TO BE INSTALLED ATOP ROOF BEAM DURING INSTALLATION OF TRUSSES AND PURLINS (2 STOREY AND UP)

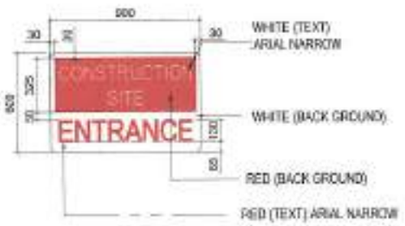




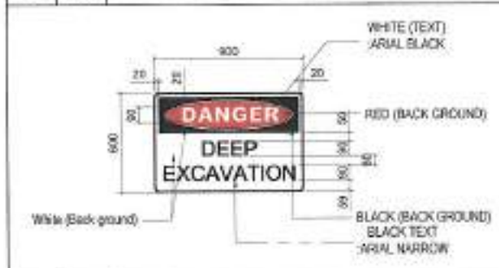
D | SCALE: 1:20 M | PROPER PPE SIGNAGE



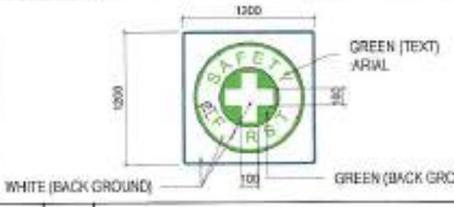
H | SCALE: 1:20 M | HARD HAT AREA



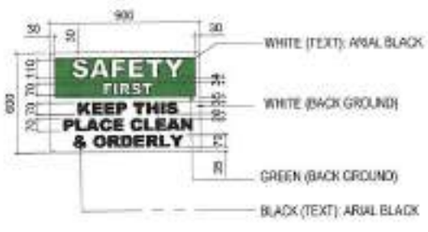
C | SCALE: 1:20 M | CONSTRUCTION ENTRANCE



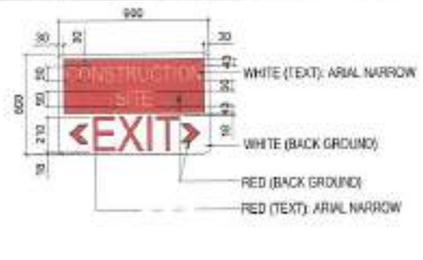
B | SCALE: 1:20 M | DANGER DEEP EXCAVATION



A | SCALE: 1:20 M | SAFETY FIRST (SF-1)



G | SCALE: 1:20 M | SAFETY FIRST (SF-2)



F | SCALE: 1:20 M | CONSTRUCTION EXIT

E | SCALE: 1:20 M | BEWARE FALLING DEBRIS

1 | SCALE: AS SHOWN | BUILDING CONSTRUCTION SAFETY SIGNAGES

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Barrio, Camarines, Camarines Sur

PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR
RAGAY, CAMARINES SUR

SHEET CONTENTS:
BUILDING CONSTRUCTION SAFETY SIGNAGES

PREPARED BY:
KIRK LAMBERT V. ALANO
CADDY
ERIKA MARTIN V. LOZANO
CHECKED BY:
DON ANGELO A. PARAFINA

SUBMITTED BY:
RICHARD M. BALDON
CHIEF - CONSTRUCTION SECTION

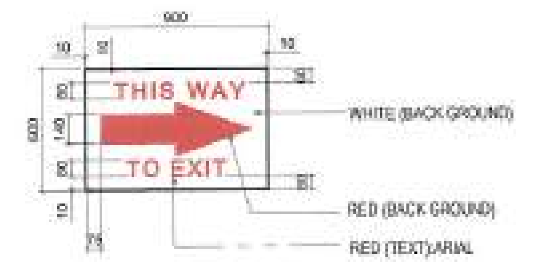
RECOMMENDING APPROVAL:
JOSE ANGELO S. KARAGDAG
ASSISTANT DISTRICT ENGINEER

APPROVED BY:
RAMON ANSELMO C. CALAGOS
DISTRICT ENGINEER

CHECKED BY:
VIRGILIO E. BARCASO
DIVISION SUPERINTENDENT, CAMARINES SUR

CONCURRED BY:
NORMA B. SAMANTELA, CESO V
SCHOOL DIVISION SUPERINTENDENT

SET NO: 9 (A | 10)
SHEET NO: 10 / 25



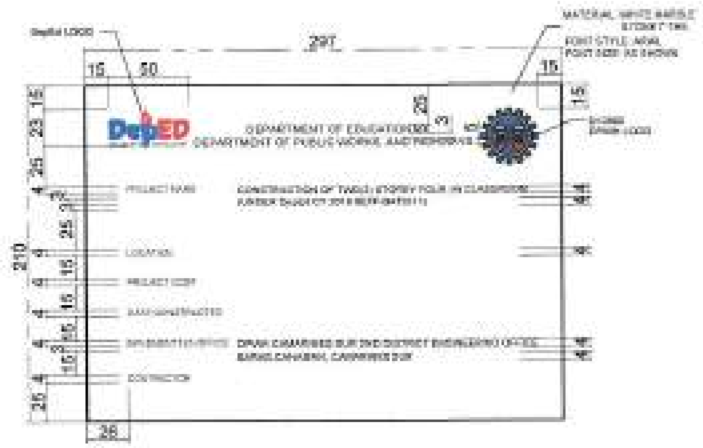
D	SCALE 1:20 M	EXIT (E-2)

A. TARPAULIN

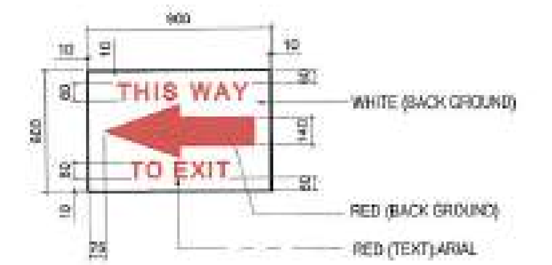
B. $\frac{1}{2}$" PLYWOOD (BACK FRAME)

C. MISCELLANEOUS (NAILS, TIE WIRES AS HANGERS, ETC.)

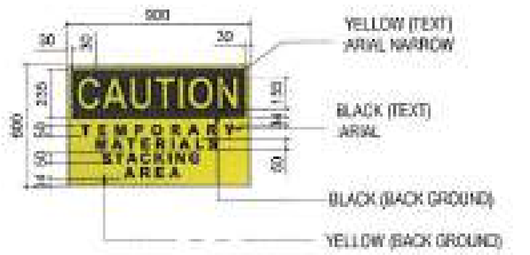
H	SCALE 1:20 M	MATERIALS



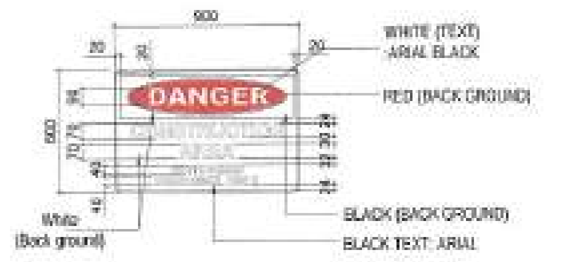
3	SCALE NTS	MARKER DETAIL



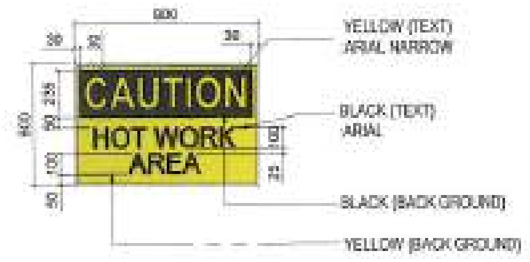
C	SCALE 1:20 M	EXIT (E-1)



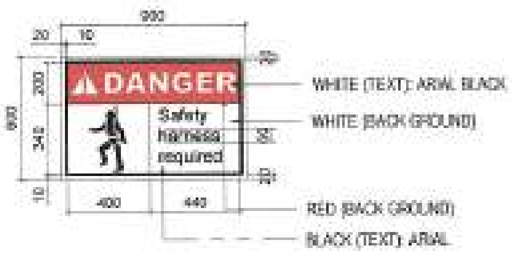
G	SCALE 1:20 M	TEMPORARY MATERIALS STACKING AREA



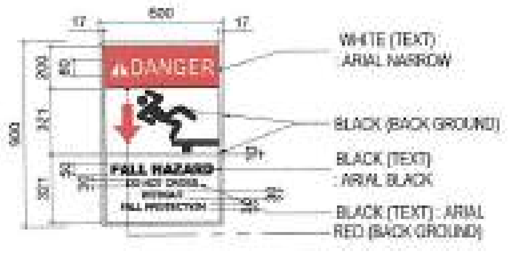
B	SCALE 1:20 M	AUTHORIZED PERSONNEL ONLY



F	SCALE 1:20 M	WELDING/ HOT AREA



A	SCALE 1:20 M	SAFETY HARNESS REQUIRED



E	SCALE 1:20 M	FALL HAZARD

1	SCALE AS SHOWN	BUILDING CONSTRUCTION SAFETY SIGNAGES

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

PROJECT TITLE AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR

SHEET CONTENTS: BUILDING CONSTRUCTION SAFETY SIGNAGES

PREPARED BY: KIRK ... ALANO
CADD BY: ERIKA ... LOZANO
CHECKED BY: DON ARIES ... PARAFINA

SUBMITTED BY: RICHARD M. BALDON, CHIEF, CONSTRUCTION SECTION

RECOMMENDING APPROVAL: JOSE ANGELO ... KARAGDAG, ASSISTANT DISTRICT ENGINEER

APPROVED BY: RAMON ANSELMO C. CALACAS, DISTRICT ENGINEER

CHECKED BY: VIRGILIO B. BANCASO, DIVISION ENGINEER II, CAMARINES SUR

CONCURRED BY: NORMA B. SAMANTELA, CESO V, SCHOOL DIVISION SUPERINTENDENT

SET NO. 10 / A 10

SHEET NO. 11 / 25

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1.0 STANDARDS AND REFERENCES

THE FOLLOWING SHALL GOVERN THE DESIGN FABRICATION AND CONSTRUCTION OF THE PROJECT.

1.1 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (N.S.C.P. 2015) VOL. 1, SEVENTH EDITION.

2.0 DESIGN CRITERIA

2.1 LOADINGS

A. DEAD LOAD

CONCRETE	23.56 kN/m³
STEEL	76.93 kN/m³
150 mm THK. CHB WALL	2.75 kPa
100 mm THK. CHB WALL	2.11 kPa

B. LIVE LOAD

ROOF	1.00 kPa
CLASSROOMS	1.90 kPa
TOILETS	1.90 kPa
CORRIDORS ABOVE, STAIRS	3.80 kPa
CORRIDORS ON GROUND	4.80 kPa

C. WIND LOAD

BUILDING CATEGORY = 1 (ESSENTIAL FACILITIES)

EXPOSURE = D (FLAT, UNOBSTRUCTED AREAS AND WATER SURFACES)

MAXIMUM WIND VELOCITY, V - 340 KPH

$P = qh\,[(GCpf) - (GCpi)]$ (DESIGN WIND PRESSURE)

WHERE: qh = VELOCITY PRESSURE (kPa)
GCpf = EXTERNAL PRESSURE COEFFICIENT
GCpi = INTERNAL PRESSURE COEFFICIENT

D. SEISMIC LOAD

$V = \frac{CvI}{RT} W$ (DESIGN BASE SHEAR)

$V_{max} = \frac{2.50\, CaI}{R} W$ $V_{min} = 0.11 CaIW$

$V_{min} = \frac{0.80\, ZNvI}{R} W$ (ZONE 4)

WHERE: W = TOTAL DEAD LOAD
T = NATURAL PERIOD = Ct (h)
WHERE: C = NUMERICAL COEFFICIENT
h = BUILDING HEIGHT
I = IMPORTANCE FACTOR = 1.50
R = NUMERICAL FACTOR = 8.50
SEISMIC COEFFICIENT: Cv = 0.44 Nv
Ca = 0.44 Nv
NEAR SOURCE FACTOR (5 km) Nv = 1.5
Na = 1.2
Z SEISMIC ZONE = 0.40 (ZONE 4)
S = SOIL TYPE = D

2.2 DESIGN STRESSES

A.	CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS:	
	a. FOOTINGS, COLUMNS, BEAMS AND SLABS	f'c = 20.7 MPa (3,000 psi)
	b. SLAB ON FILL	f'c = 17.5 MPa (2,500 psi)
B.	REINFORCING STEEL BARS	
	a. FOR BARS 16mm AND GREATER (INTERMEDIATE GRADE DEFORMED BAR)	fy = 275 MPa (40,000 psi)
	b. FOR BARS LESS THAN 16mm (STRUCTURAL GRADE DEFORMED BAR)	fy = 275 MPa (40,000 psi)
C.	STRUCTURAL STEEL ASTM-A36 FOR TRUSSES, BRACINGS, & STRUTS	fy = 248 MPa (36,000 psi)
D.	PURLINS COLD FORMED LIGHT	fy = 248 MPa (36,000 psi)
E.	MASONRY UNIT (CHB) NON - LOADING BEARING CHB WALLS	fm' = 3.45 MPa (500 psi)
F.	WELDS	E - 60XX ELECTRODE
G.	STRUCTURAL BOLTS ASTM-307	a. Ft = 96.50 MPa (14,000 psi) b. Fv = 69.00 MPa (10,000 psi)

3.0 IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTIONS PURPOSES.

4.0 IN REFERENCES TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATIONS OF DRAINS ETC.

5.0 IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS AND ARCHITECTURAL DRAWINGS, THE CONTRACTORS SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND ARCHITECTS.

6.0 ALL CONCRETE WORKS AND CONCRETE REINFORCEMENTS SHALL BE DONE IN ACCORDANCE WITH THE ACI 318-14M BUILDING CODE REQUIREMENT AND ALL STRUCTURAL STEEL WORKS ACCORDING WITH THE WITH THE AISC-05 IN SOFAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.

7.0 ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC REFERS TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM REFERS TO AMERICAN SOCIETY FOR TESTING MATERIALS.

8.0 CONSTURCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.

9.0 SHOP DRAWING WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.

10. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEUOS CURBS, SILLS, STOOLS EQUIPMENT AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS.

11. ALL RESULTS OF THE MATERIAL TESTING FOR CONCRETE, REINFORCING BARS & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE MATERIALS ENGINEER/STRUCTURAL DESIGNER.

NOTES ON CONCRETE PLACING AND MIXING

1. ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMP AS FOLLOWS.

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE	MAX. SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS	3000 PSI (20.7 MPa)	20 mm	100 mm
COLUMNS	3000 PSI (20.7 MPa)	20 mm	100 mm
BEAMS, SLABS	3000 PSI (20.7 MPa)	20 mm	100 mm
SLAB ON FILL	2500 PSI (17.5 MPa)	20 mm	100 mm

2. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
   - SUSPENDED SLABS ——— 20mm
   - SLAB ON GRADE ——— 40mm
   - WALLS ABOVE THE GRADE BEAM ——— 25mm
   - STIRRUPS AND COLUMN TIES WHERE ——— 40mm
   - CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS WHERE ——— 50mm
   - CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH ——— 75mm
3. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSSITON WITHOUT SEGREGATION. RE-HANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
4. NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING DESIGNER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.
5. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE O WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
7. STRIPPING OF FORMS AND SHORES:
   - FOUNDATION ——— 24 HOURS
   - SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED ——— 8 DAYS
   - WALLS ——— 21 DAYS
   - BEAMS ——— 14 DAYS
   - COLUMN ——— 21 DAYS
8. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
9. THE CONTRACTOR SHALL FURNISH AND MAITAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

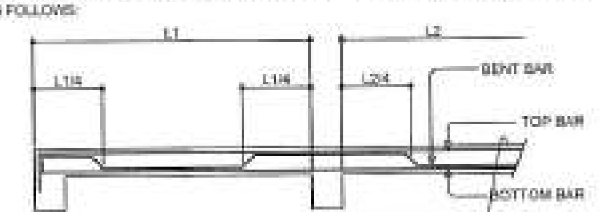
1. FOOTINGS ARE DESIGNED FOR AN ALLOWANCE SOIL BEARING PRESSURE OF 96 KPa (2000psf). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
2. FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
3. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.
4. IN CASES WHERE THE SOIL CONDITION IS SUCH THAT THE MINIMUM ALLOWABLE SOIL PRESSURE OF 96KPa (2000 psf) CAN NOT BE ATTAINED AT A PRACTICAL DEPTHS THE USE OF MICROPILES, BORED PILES, OR DRIVEN PILES MAY BE ADOPTED IN LIEU OF STANDARD ISOLATED FOOTINGS.

NOTES ON REINFORCEMENT

1. UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
   - A. FOOTINGS, FOOTING BEAMS AND GIRDERS ——— fy = 275 MPa (40,000 psi)
   - B. COLUMNS AND SHEAR WALLS ——— fy = 275 MPa (40,000 psi)
   - C. BEAMS AND GIRDER ——— fy = 275 MPa (40,000 psi)
   - D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK ——— fy = 275 MPa (40,000 psi)
2. ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH THE ASTM A-706 BARS SMALLER THAN 10mm MAY BE PLAIN.
3. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

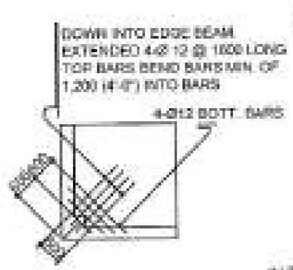
1. ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
2. UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:



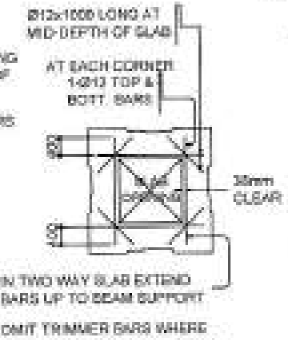
3. IF SLABS AR E REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS.
4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS. SHALL NOT BE LESS THAN 0.0025 X GROSS-SECTIONAL AREA (Ag) OF THE SLAB. (SEE SCHEDULE BELOW)

SCHEDULE OF MINIMUM SLAB REINFORCEMENT	
	MINIMUM TEMPERATURE BARS
100 mm	10mmØ @ 250mm EACH WAY
125 mm	10mmØ @ 250mm EACH WAY
150 mm	10mmØ @ 250mm EACH WAY
175 mm	10mmØ @ 250mm EACH WAY
200 mm	10mmØ @ 250mm EACH WAY

5. UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm Ø AT 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART.
6. PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOES EDGES) AS SHOWN BELOW.
7. CONCRETE SLAB REINFORCEMENT BE PROPERLY SUPPORTED WITH 10mm STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS.



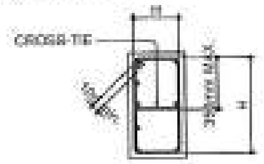
TYPICAL CORNER SLAB DETAIL

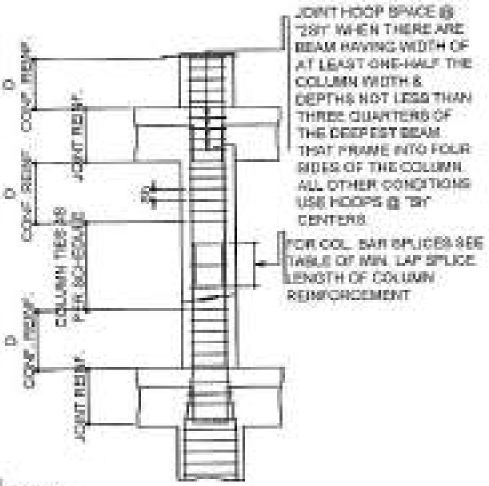


TYPICAL SLAB OPENING DETAIL

NOTES ON COLUMNS

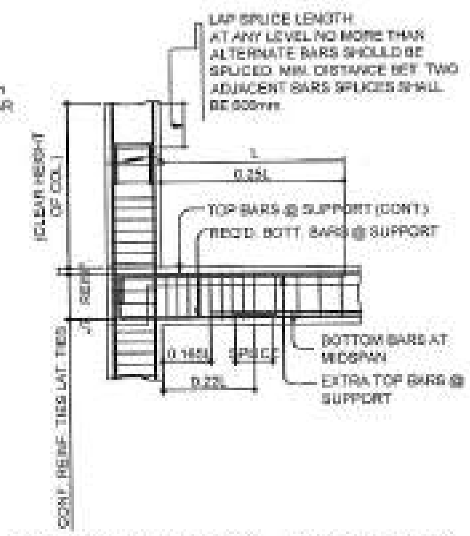
1. PROVIDE EXTRA SETS OF TIES AT 100 O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO GREATER OF THE OVERALL THICKNESS OF COLUMN 1/6 THE CLEAR HEIGHT OF COLUMN OR 450mm.
2. COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH A MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
3. WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENT SHALL BE OFFSET AT A SLOPE MONOLITHICALLY WITH THE CORE WITH MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE COARSE AGGREGATE IN MILLIMETERS.
4. MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.





NOTE:
ALL CONCRETE REINF. DETAIL SHOULD BE DONE IN ACCORDANCE WITH ACI DETAILING MANUAL (LATEST EDITION)

TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



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

NOTES ON BEAMS AND GIRDERS

1. UNLESS, OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDER AT THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20 mm FOR EVERY 3.0 M OF FREE SPAN.
2. TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

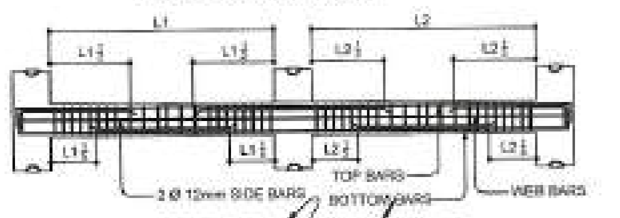


FIGURE B-1

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baao, Camarines Sur

PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR
RAGAY, CAMARINES SUR

SHEET CONTENTS:
GENERAL CONSTRUCTION NOTES

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RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG, ASSISTANT DISTRICT ENGINEER
APPROVED BY: RAMON ANSELMO C. CALAGOS, DISTRICT ENGINEER
CHECKED BY: [illegible]
CONCURRED BY: NORMA B. SAMANTELA, CESO V, SCHOOL DIVISION SUPERINTENDENT

SET NO. 1 / 8
SHEET NO. 12 / 25

GENERAL CONSTRUCTION NOTES

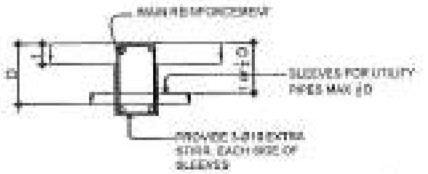
TABLE "A" TENSION BARS TABLE OF LAP SPLICE & ANCHORAGE LENGTH (mm)				
BAR SIZES (DEFORMED) MM	f'c = 20.7MPa (3000psi)		f'c = 27.6MPa (4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
Ø 10	300	300	300	300
Ø 12	350	300	300	300
Ø 16	350	400	300	400
Ø 20	400	550	350	500
Ø 25	550	800	475	700
Ø 28	720	1000	620	880
Ø 32	950	1300	850	1130

NOTES:
1. TOP PLAIN BARS, MULTIPLY VALUE BY 2
2. NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH

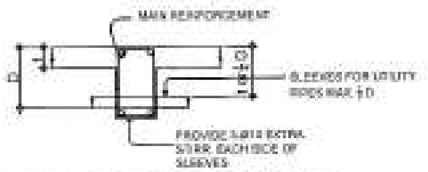
TABLE "B" COMPRESSION BARS TABLE OF LAP SPLICE & ANCHORAGE LENGTH (mm)				
BAR SIZES (DEFORMED) MM	f'c = 20.7MPa (3000psi)		f'c = 27.6MPa (4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
Ø 10	200	300	200	300
Ø 12	275	300	250	300
Ø 16	350	400	325	400
Ø 20	400	500	425	500
Ø 25	550	625	550	625
Ø 28	625	875	625	875
Ø 32	700	775	700	775

NOTES:
1. TOP PLAIN BARS, MULTIPLY VALUE BY 2
2. NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH
3. VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS

3. IF THE BEAM REINFORCING BARS END IN A WALL, THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL IS NOT LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE SHOWN IN A TABLE "A" FOR TENSION BARS AND TABLE "B" FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BARS AND SHALL NOT BE SPLICED WITHIN THE COLUMN OR TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USED 25mm BAR SEPARATORS SPACED AT 1.0M ON CENTER ON NO CASE SHALL THERE BE THAN TWO (2) SEPARATORS BETWEEN LAYERS OF BARS 5. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIGURE B-2 UNLESS ELSEWHERE.



TYP. DET. FOR SLEEVES THRU CONCRETE BEAM
FIG. B-2



TYP. DET. FOR SLEEVES THRU CONCRETE BEAM
FIG. B-2

6. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS. BEAM REINFORCING BARS SHALL BE SYMMETRICAL ABOUT THE CENTER LINE WHENEVER POSSIBLE.
7. GENERALLY, NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN TABLE "A" AND "B". WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPLICED YIELD STRENGTH OF THE BAR NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

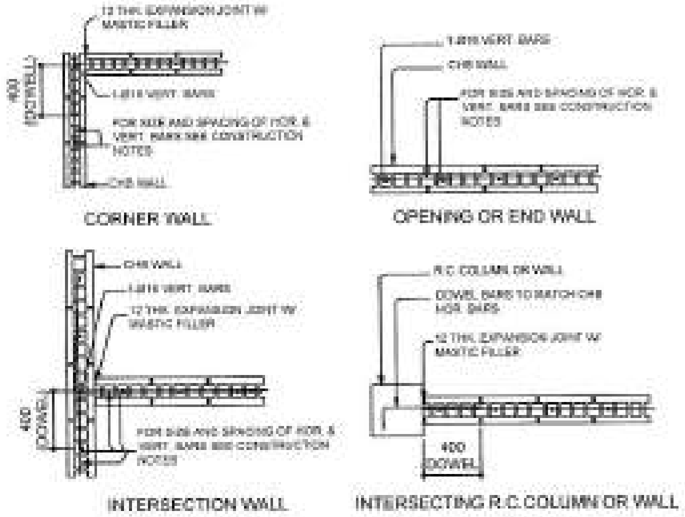
NOTES ON CONCRETE HOLLOW BLOCKS WALLS

1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 10mm Ø TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

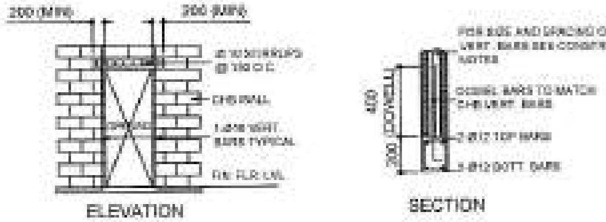
NOTES ON CONCRETE HOLLOW BLOCKS WALLS REINFORCEMENTS			
BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	LAPPED	
75mm	10mmØ EVERY 3RD LEVEL	10mmØ @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.60m LONG C. WHERE CHB OR CER BLK. WALL DOWELS WITH THE SAME SIZE AS VER. OR HOR. REINFORCEMENT SHALL BE PROVIDED
125mm	10mmØ EVERY 3RD LEVEL	10mmØ @ 600mm O.C.	
150mm	10mmØ EVERY 3RD LEVEL	10mmØ @ 600mm O.C.	
200mm	12mmØ EVERY 3RD LEVEL	10mmØ @ 600mm O.C.	

REINFORCING CONCRETE LINTEL BEAMS IN CONCRETE BLOCK WALLS

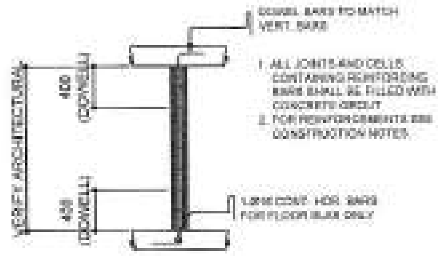
LINTELS IN BLOCK WALLS						
CLEAR SPAN (L)	TOTAL LENGTH (L+0.40M)	MIN. fc' (MPa)	HEIGHT OF LINTEL (mm)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20 M	1.60 M	14.0	200	1-Ø10	1-Ø10	Ø6 mm @ 200mm
1.50 M	1.90 M		200	1-Ø10	1-Ø10	Ø6 mm @ 200mm
1.80 M	2.20 M		200	1-Ø12	1-Ø10	Ø6 mm @ 200mm
2.10 M	2.50 M	17.0	250	1-Ø12	1-Ø10	Ø6 mm @ 200mm
2.40 M	2.80 M		250	1-Ø12	1-Ø10	Ø6 mm @ 200mm
2.70 M	3.10 M		250	1-Ø16	1-Ø12	Ø10 mm @ 200mm
3.00 M	3.40 M	20.0	300	1-Ø16	1-Ø12	Ø10 mm @ 200mm
3.30 M	3.70 M		300	1-Ø16	1-Ø12	Ø10 mm @ 200mm
3.60 M	4.00 M		300	1-Ø20	1-Ø12	Ø10 mm @ 200mm



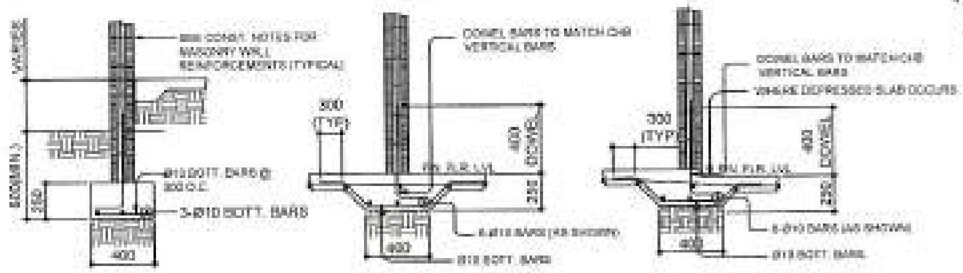
TYPICAL CONNECTION DETAL OF MASONRY WALL



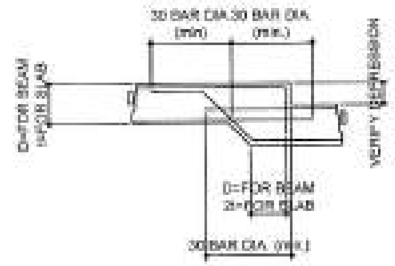
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



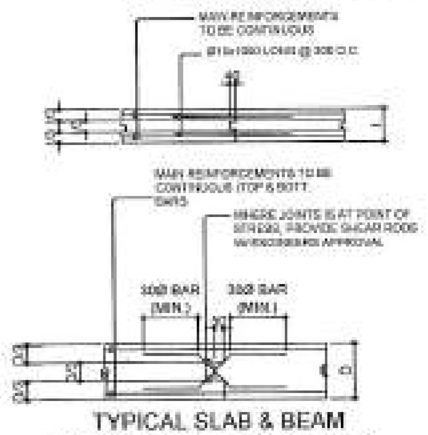
TYP. DET. SECTION OF MASONRY PARTITION REINFORCEMENTS



TYPICAL CHB FOOTING DETAILS (WHERE APPLICABLE)



TYPICAL DETAL FOR BEAM OR SLAB CHANGE SOFFIT



TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.

NOTES ON CONCRETE WALLS

1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	REINFORCEMENT			VERTICAL SECTION
	HORIZONTAL	VERTICAL	REMARKS	
100mm	Ø10mm @ 250mm O.C.	Ø10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT	VER. BARS / HOR. BARS
125mm	Ø10mm @ 250mm O.C.	Ø10mm @ 250mm O.C.		
150mm	Ø10mm @ 250mm O.C.	Ø12mm @ 300mm O.C.		

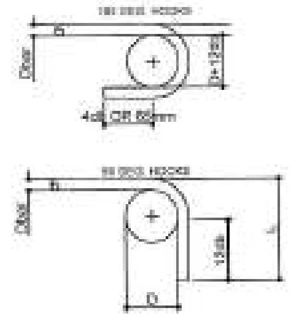
REINFORCING BARS SHALL HAVE 20mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 50mm SHALL BE PROVIDED AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 30mm CLEAR.

2. CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS. VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M O.C.

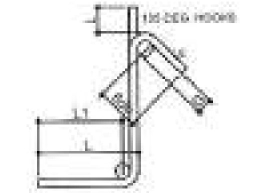
3. UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 3-20mmØ BARS. FOR 225mm, 200mm, 175mm, 150mm THICK WALLS USE 2-16mmØ. FOR 125mm AND 100mm THICK WALLS, USE 2-12mmØ BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED.

NOTES ON STIRRUPS

1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
2. AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
3. TIES & CLOSE STIRRUPS MUST BE AT 135.



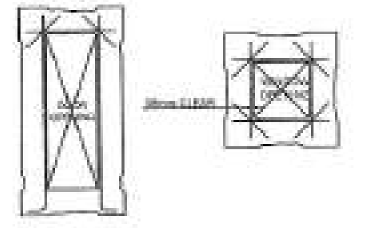
STIRRUP AND THE TIE HOOKS (ALL GRADES)				
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10 mmØ	60	75	125	150
12 mmØ	75	100	150	200
16 mmØ	90	125	175	250
20 mmØ	115	150	200	300
25 mmØ	150	200	230	400
28 mmØ	240	300	350	550
32 mmØ	300	335	450	600



STIRRUP AND THE TIE HOOKS (ALL GRADES)				
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D+2db	L	L
10 mmØ	40	125	85	100
12 mmØ	50	155	115	115
16 mmØ	65	200	140	150
20 mmØ	115	300	165	300
32 mmØ	150	355	200	455

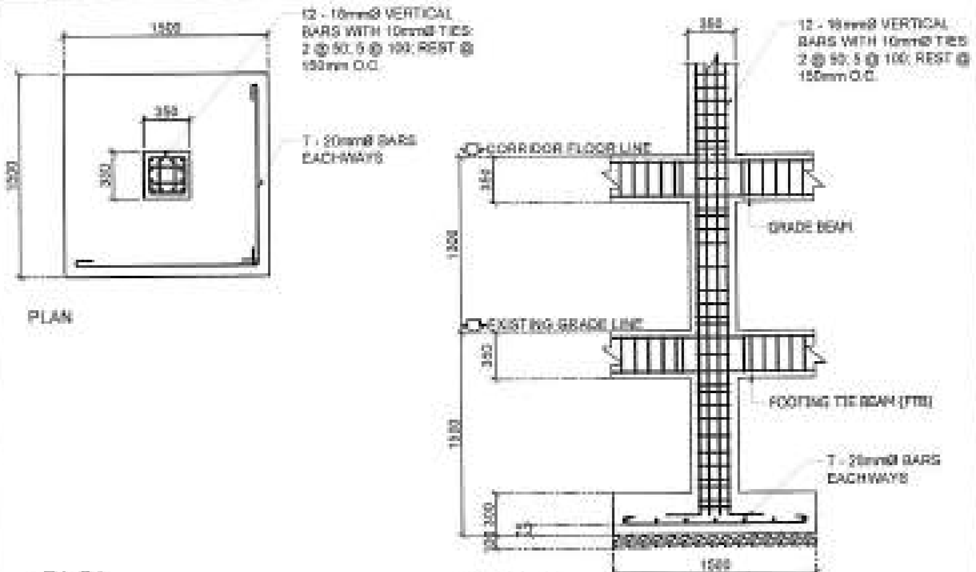
NOTE:
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO B OF OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING.

SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION

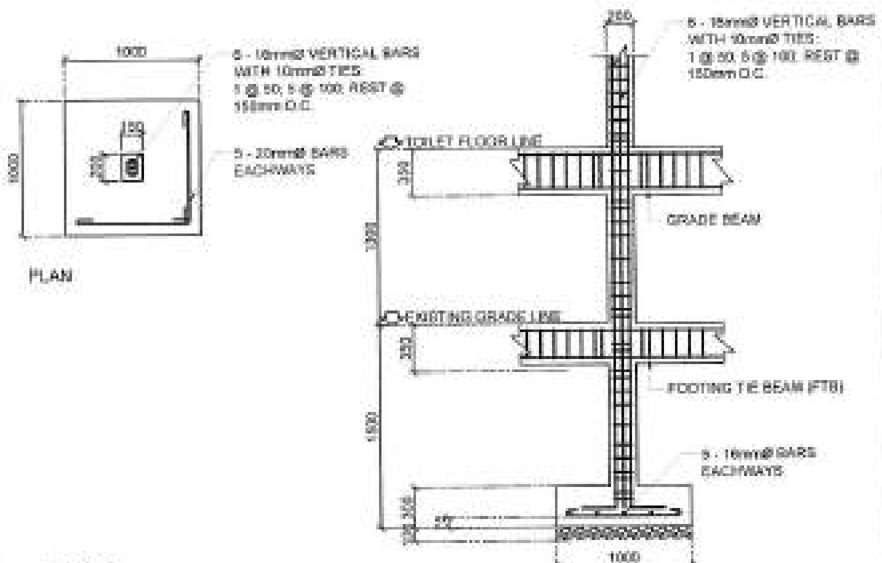


TYP. EXTERIOR WDW. & DOOR OPENING

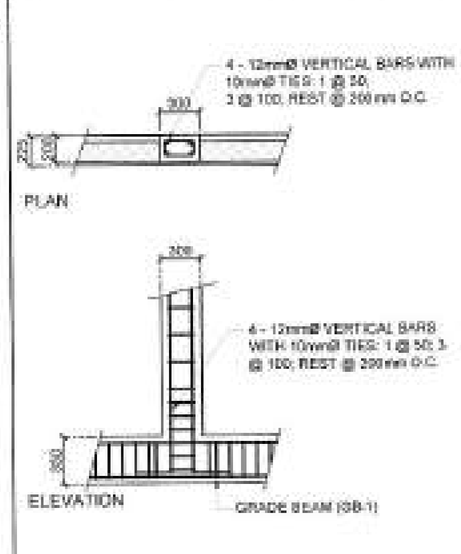
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Baras, Canaman, Camarines Sur	PROJECT TITLE AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR RAGAY, CAMARINES SUR	SHEET CONTENTS: GENERAL CONSTRUCTION NOTES	PREPARED BY: KIRK HAN... ALANO CAD BY: ERIKA MA... V. LOZANO CHECKED BY: DON ARIES ... PARAFINA	SUBMITTED BY: RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	RECOMMENDING APPROVAL: JOSE ANGELO B. KARAGDAG ASSISTANT DISTRICT ENGINEER	APPROVED BY: RAMON ANSELMO C. CALACOS DISTRICT ENGINEER	CHECKED BY: VIRGILIO B. BANCISO DIVISION ENGINEER III, CAMARINES SUR CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	SET NO: 2 6 8	SHEET NO: 13 25



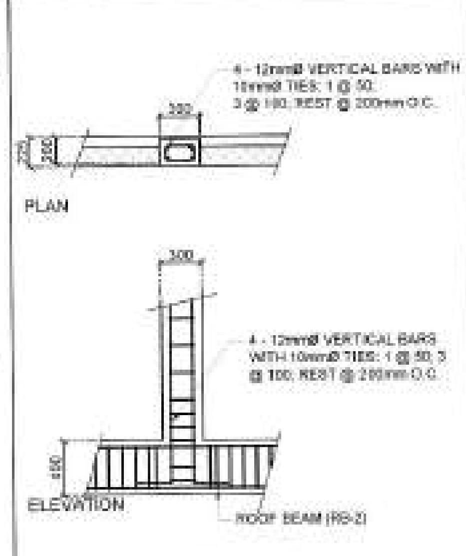
F1-C1



F2-C2

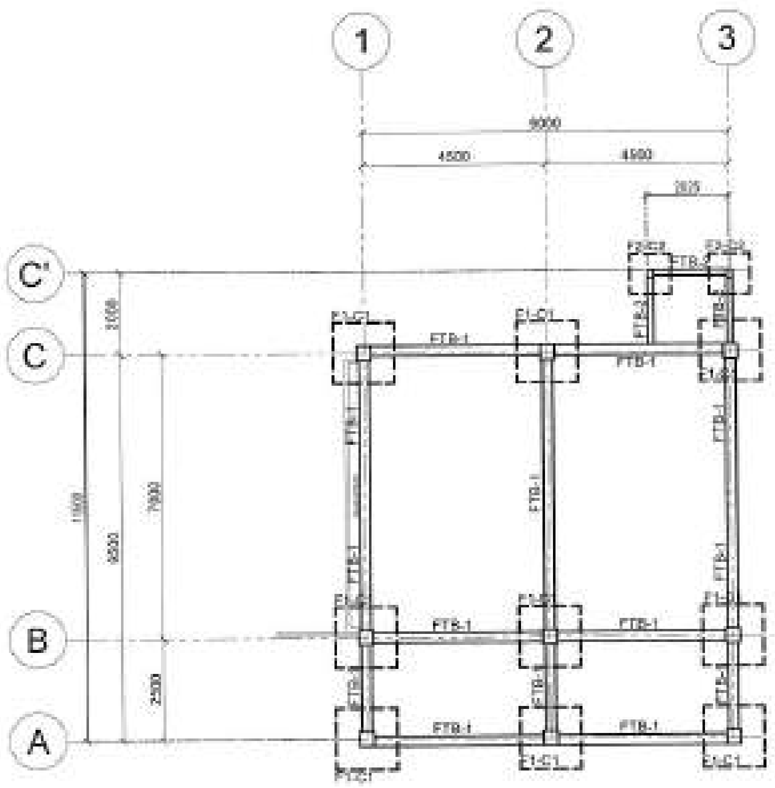


STIFFENER COLUMN (SC-1)

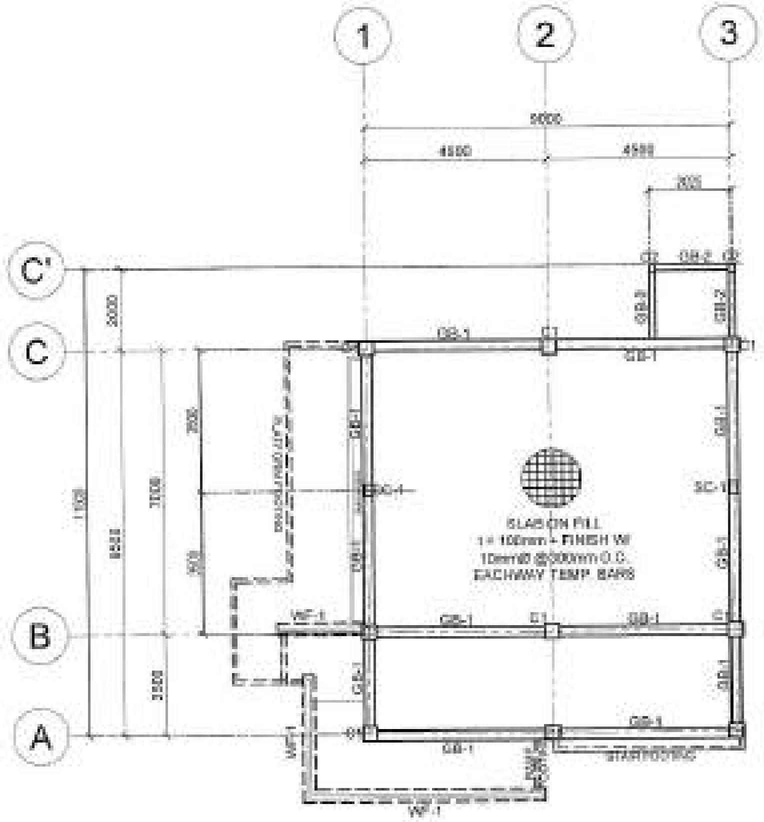


PLANTED COLUMN (PC-1)

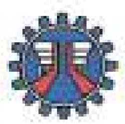
3 SCALE: 1:50 M COLUMN AND COLUMN FOOTING DETAILS



1 SCALE: 1:100 M FOUNDATION PLAN

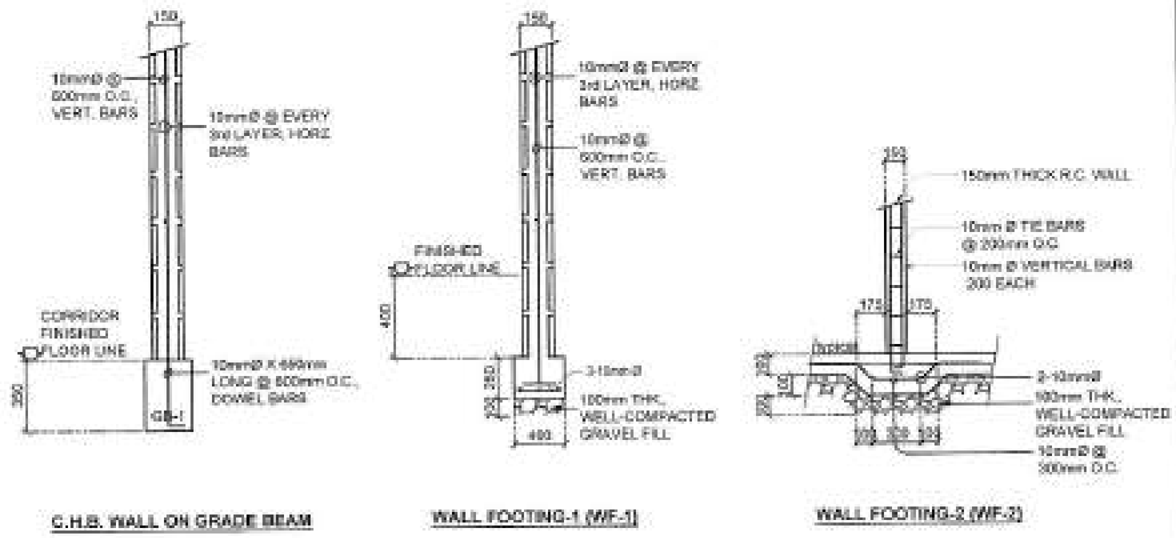


2 SCALE: 1:100 M FLOOR FRAMING PLAN

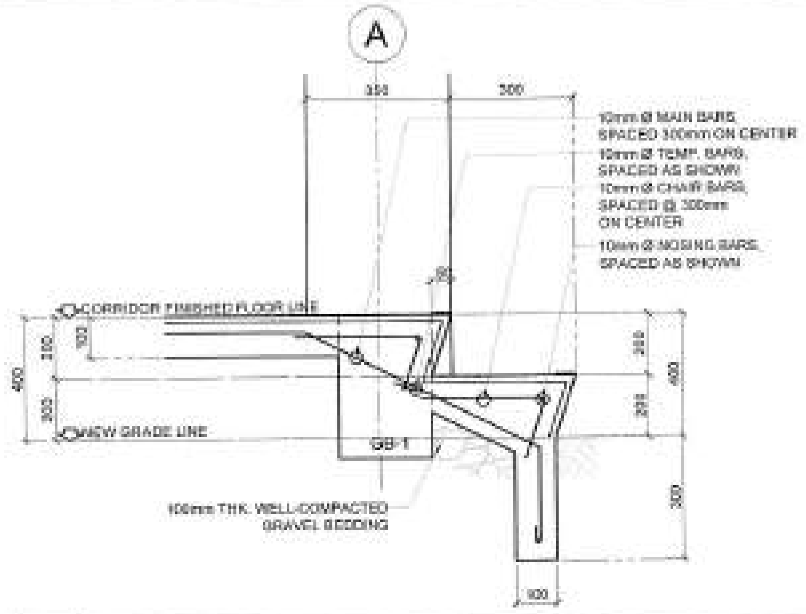


Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

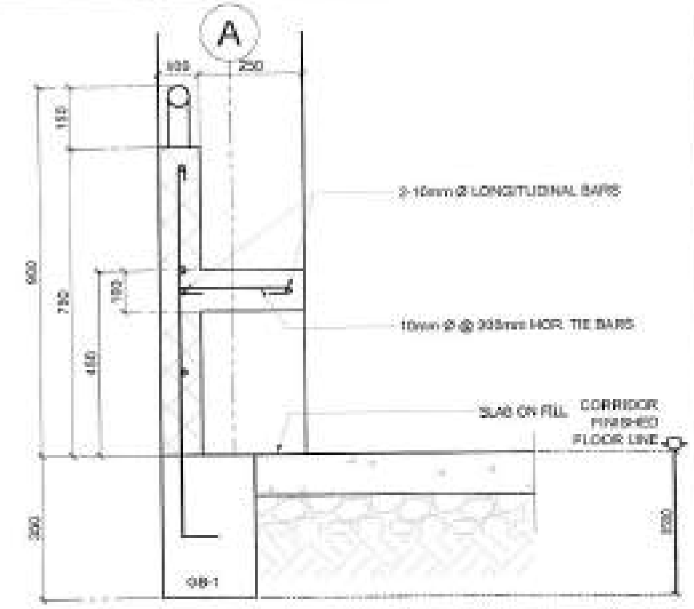
PROJECT TITLE AND LOCATION:	SHEET CONTENTS:	PREPARED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	CHECKED:	SET NO:	SHEET NO:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR	FOUNDATION PLAN FLOOR FRAMING PLAN COLUMN AND COLUMN FOOTING DETAILS	KIRK R... T L. ALANO CADD BY: ERIKA M... LOZANO CHECKED BY: DON A... A. PARAFINA	RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	VIRGILIO B. BANOSO DIVISION ENGINEER III, CAMARINES SUR CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	3 S 8	14 25
RAGAY, CAMARINES SUR								



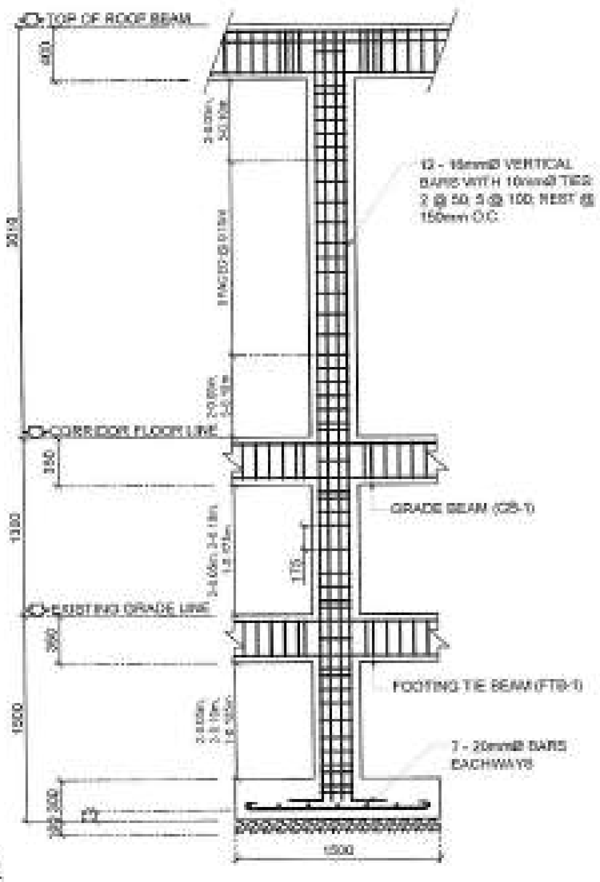
3 SCALE 1:20 M WALL FOOTING/ WALL CONNECTION DETAIL



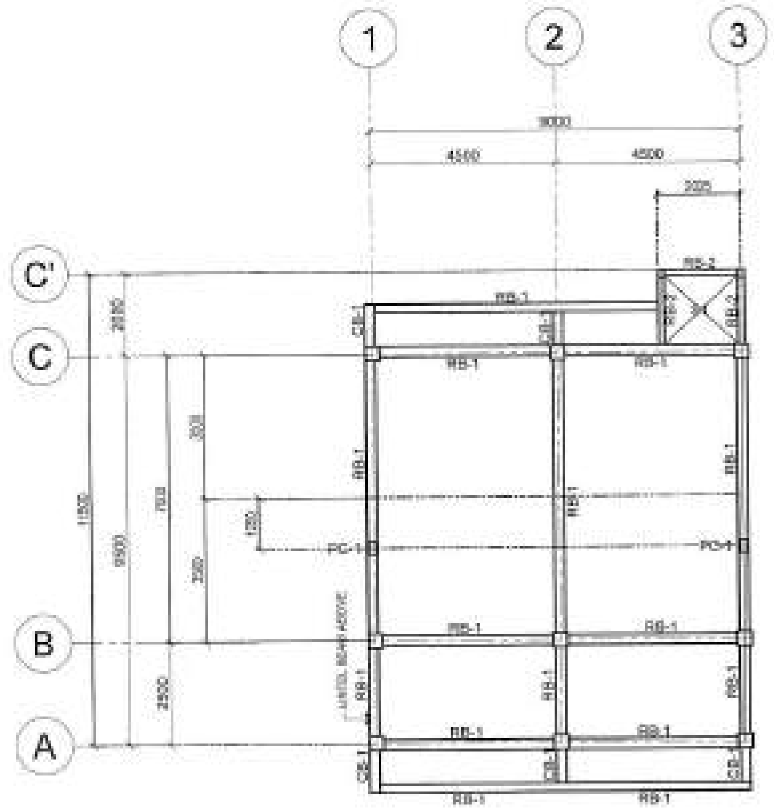
4 SCALE 1:10 M CONCRETE STAIR DETAIL



5 SCALE 1:10 M CONCRETE BENCH DETAIL



1 SCALE 1:20 M R.C. COLUMN DETAIL



2 SCALE 1:100 M ROOF BEAM PLAN

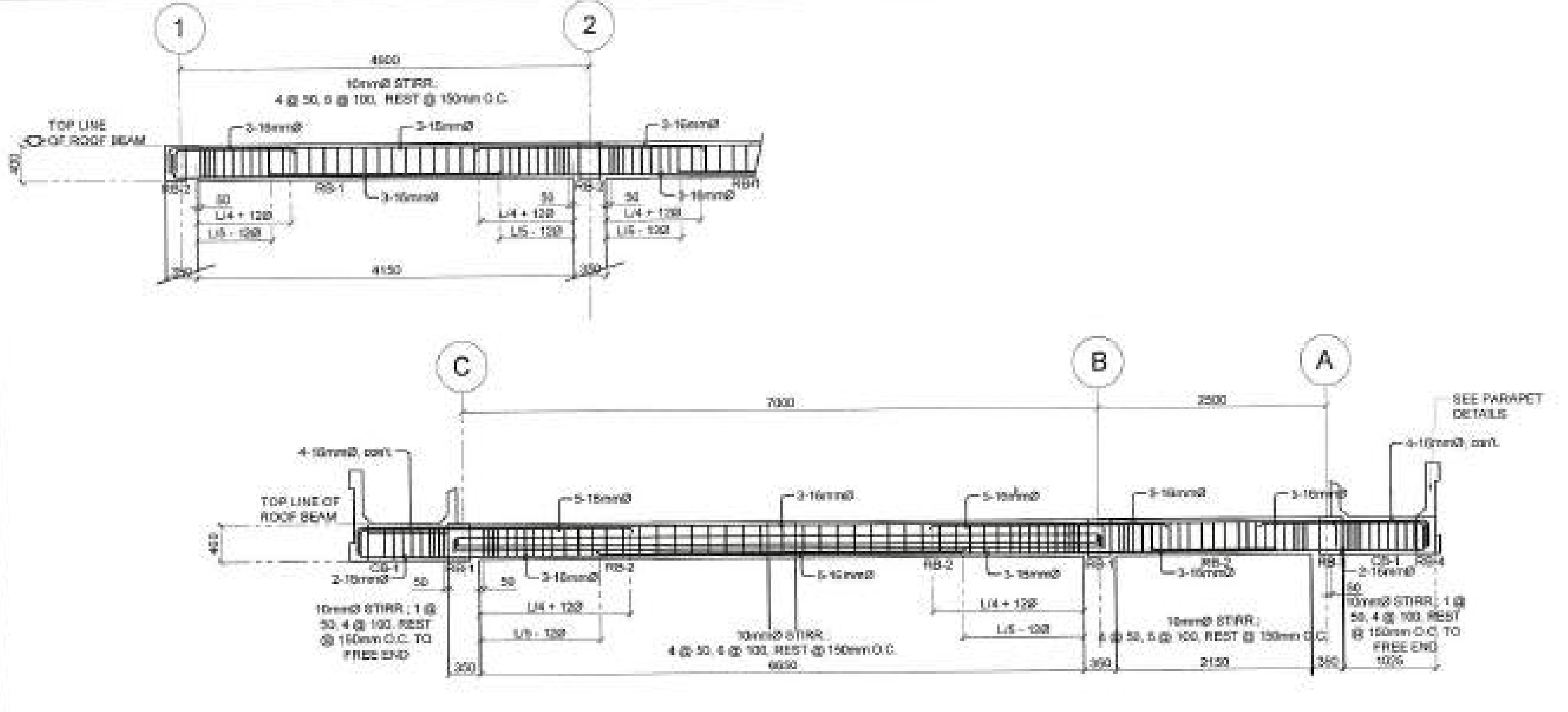
Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

PROJECT TITLE AND LOCATION	SHEET CONTENTS	PREPARED BY	SUBMITTED BY	RECOMMENDING APPROVAL	APPROVED BY	CHECKED BY	SET NO.	SHEET NO.
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR RAGAY, CAMARINES SUR	R.C. COLUMN DETAIL ROOF BEAM PLAN WALL FOOTING/WALL CONNECTION DETAIL CONCRETE STAIR DETAIL CONCRETE BENCH DETAIL	KRISTIAN L. ALANO CADD BY: ERIKA MARIEN LOZANO CHECKED BY: DON ARIES PARAFINA	RICHARD M. BALDON CHIEF, CONSTRUCTION SECTION	JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	VIRGILIO B. BANCASO DIVISION ENGINEER CAMARINES SUR CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT		15 / 25

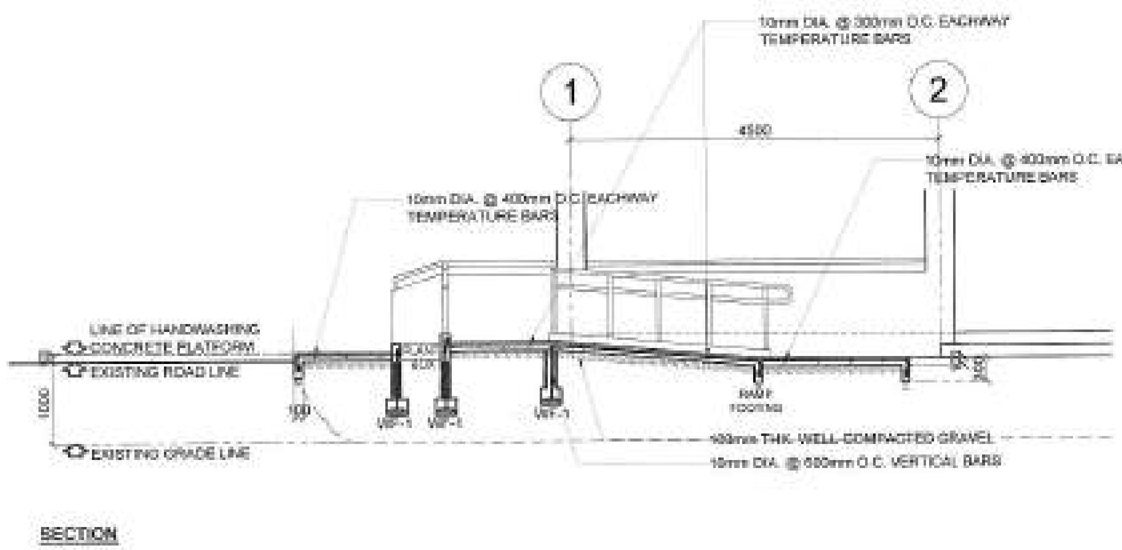
SCHEDULE OF BEAMS

SCALE 1:20M

DIMENSION (mm)	SCHEDULE	AT SUPPORT	AT MIDSPAN	STIRRUPS
225 X 350	GB-1 (GRADE BEAM-1)	2-16mmØ 2-16mmØ 2-16mmØ	2-16mmØ 2-16mmØ 2-16mmØ	10mmØ RSB SPACED AT: 2-50, 5-75, REST @ 150 ON CENTER
150 X 300	GB-2 (GRADE BEAM-2)	2-16mmØ 2-16mmØ	2-16mmØ 2-16mmØ	10mmØ RSB SPACED AT: 2-50, 5-75, REST @ 150 ON CENTER
225 X 350	FTB-1 (FOOTING TIE BEAM-1)	3-16mmØ 2-16mmØ 2-16mmØ	3-16mmØ 2-16mmØ 2-16mmØ	10mmØ RSB SPACED AT: 2-50, 5-75, REST @ 150 ON CENTER
150 X 350	FTB-2 (FOOTING TIE BEAM-2)	2-16mmØ 2-16mmØ	2-16mmØ 2-16mmØ	10mmØ RSB SPACED AT: 2-50, 5-75, REST @ 150 ON CENTER
250 X 400	RB-1 (ROOF BEAM-1)	5-16mmØ 2-16mmØ 3-16mmØ	3-16mmØ 2-16mmØ 5-16mmØ	10mmØ RSB SPACED AT: 4-50, 6-100, REST @ 150 ON CENTER
150 X 300	RB-2 (ROOF BEAM-2)	3-16mmØ 2-16mmØ 2-16mmØ	2-16mmØ 2-16mmØ 3-16mmØ	10mmØ RSB SPACED AT: 2-50, 3-100, REST @ 150 ON CENTER
250 X 400	CB-1 (CANTILEVER BEAM-1)	5-16mmØ 4-16mmØ 3-16mmØ	5-16mmØ 4-16mmØ 5-16mmØ	10mmØ RSB SPACED AT: 4-50, 6-100, REST @ 150 TO FREE END
225 X 225	LRB-1 (LINTEL ROOF BEAM-1)	2-16mmØ 2-16mmØ	2-16mmØ 2-16mmØ	10mmØ RSB SPACED AT: 4-50, 6-100, REST @ 150 ON CENTER



2 SCALE 1:40M ROOF BEAM DETAILS



1 SCALE 1:50M RAMP DETAIL

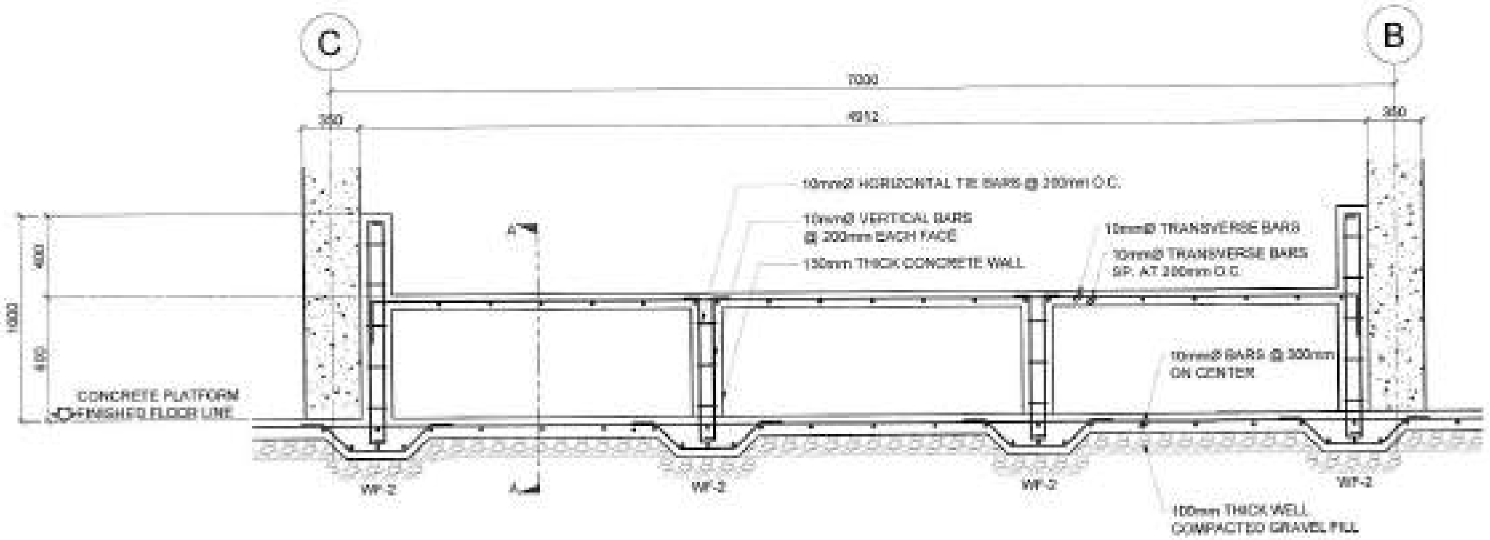
Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

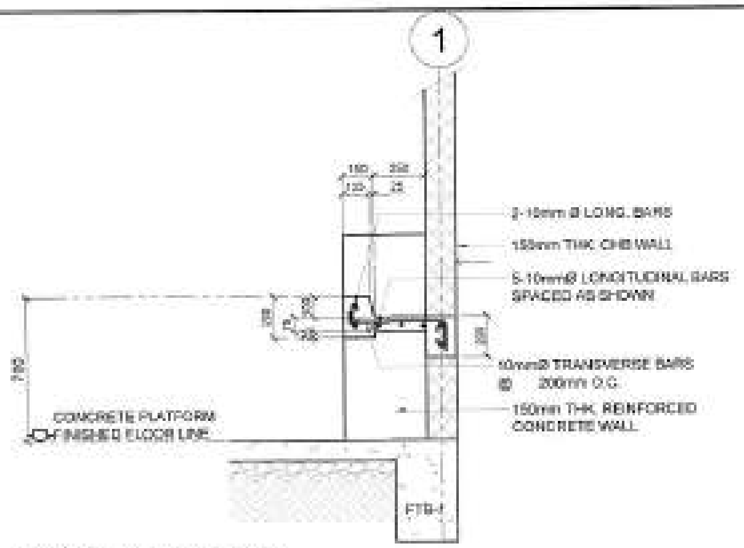
PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR
RAGAY, CAMARINES SUR

SHEET CONTENTS:
SCHEDULE OF BEAMS
RAMP DETAIL
ROOF BEAM DETAILS

PREPARED BY: KIRK HAMMER ... ALANO
CADD BY: ERIKA MARIEN V. LOZANO
CHECKED BY: DON ARIES A. PARAFINA
SUBMITTED BY: RICHARD M. BALDON, CHIEF - CONSTRUCTION SECTION
RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG, ASSISTANT DISTRICT ENGINEER
APPROVED BY: RAMON ANSELMO C. CATAGOS, DISTRICT ENGINEER
CHECKED BY: VIRGILIO B. BANCASO
CONCURRED BY: NORMA B. SAMANTELA, CESO V, SCHOOL DIVISION SUPERINTENDENT

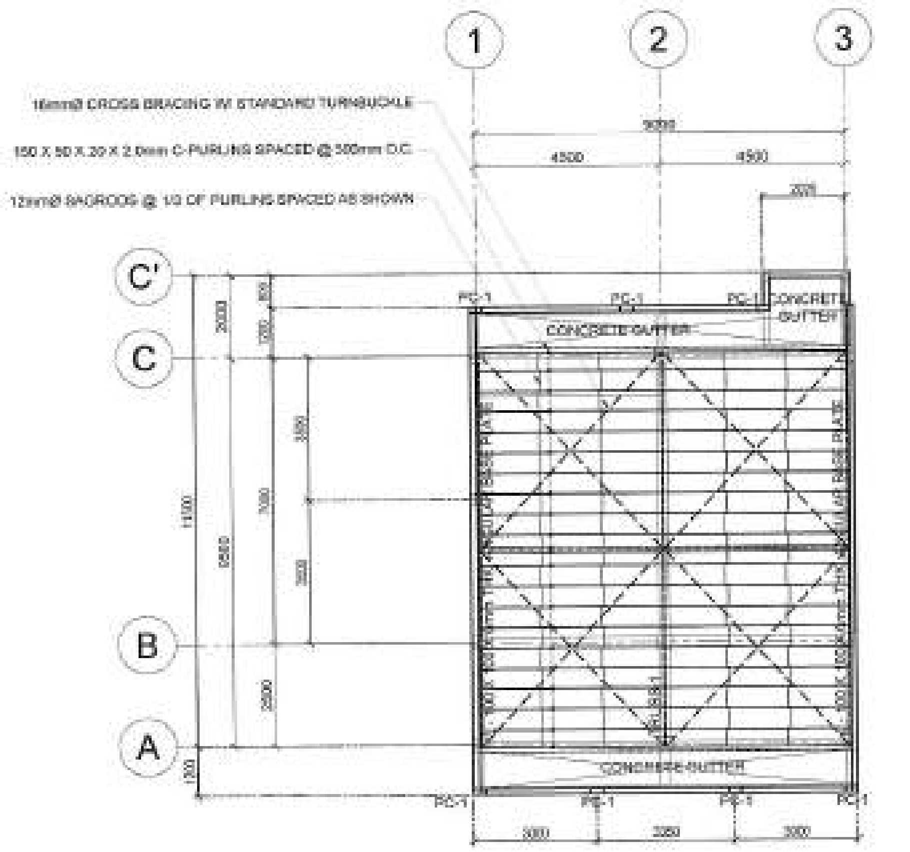
SET NO: 5 / 8
SHEET NO: 16 / 25



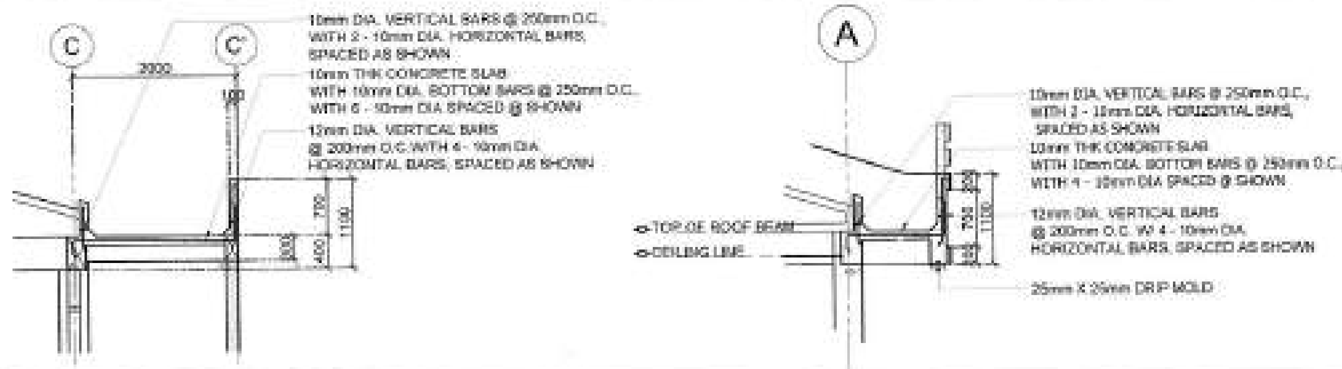


SECTION THRU 'A-A'

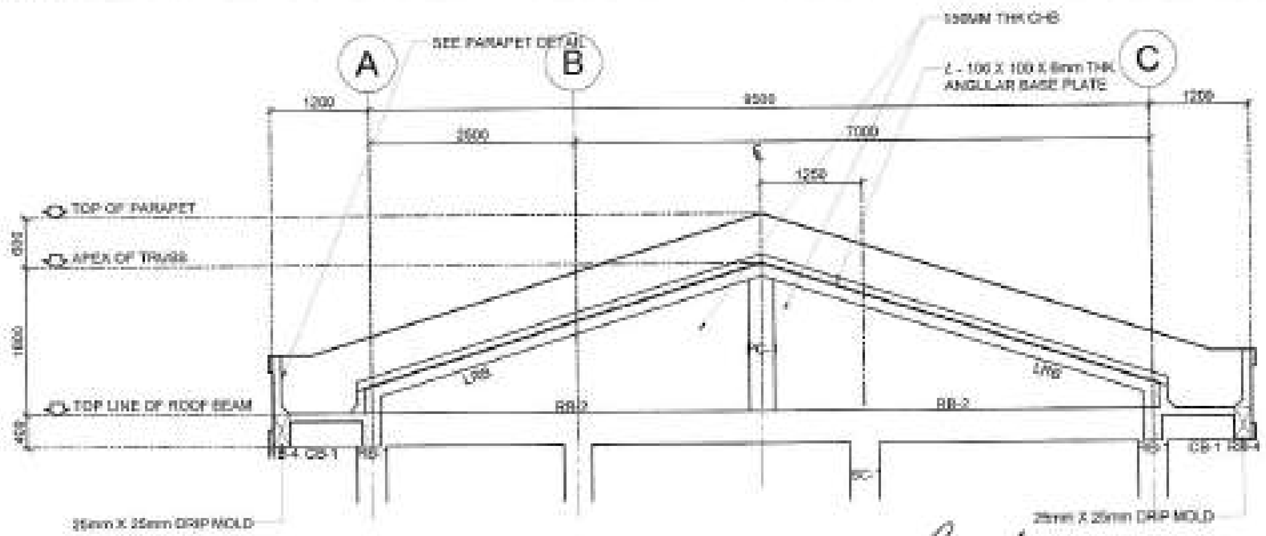
4 | SCALE 1:25 M | DETAILED SECTION OF HANDWASHING COUNTER



1 | SCALE 1:100 M | ROOF FRAMING PLAN



3 | SCALE 1:50 M | DETAIL OF REINFORCED CONCRETE GUTTER



2 | SCALE 1:50 M | END WALL DETAIL

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

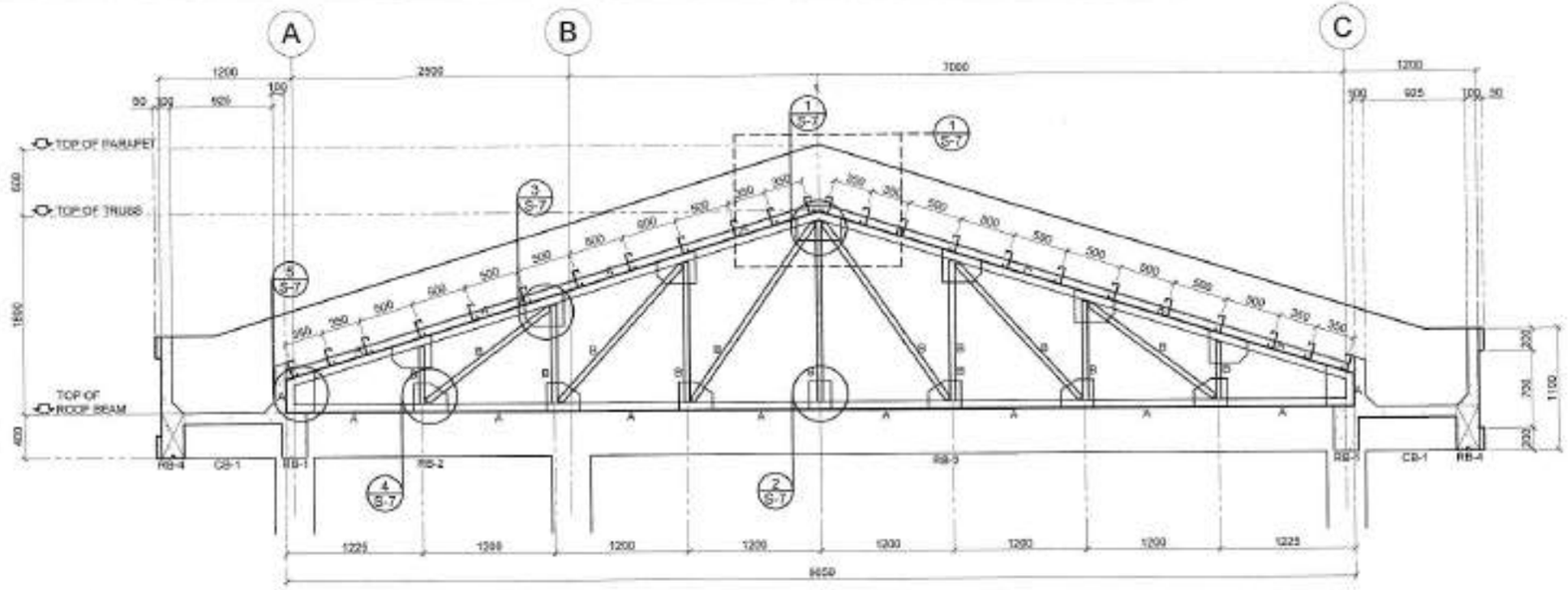
PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR
RAGAY, CAMARINES SUR

SHEET CONTENTS:
ROOF FRAMING PLAN
END WALL DETAIL
DETAIL OF REINFORCED CONCRETE GUTTER
DETAILED SECTION OF HANDWASHING COUNTER

PREPARED BY: KIRK HANNE... LANO
CADD BY: ERIKA MARIEL ... LOZANO
CHECKED BY: DON ARIES A. PARAFINA

SUBMITTED BY: RICHARD M. BALDON, CHIEF, CONSTRUCTION SECTION
RECOMMENDING APPROVAL: JOSE ANGELO B. KARAGDAG, ASSISTANT DISTRICT ENGINEER
APPROVED BY: RAMON ANSELMO C. CALAGOS, DISTRICT ENGINEER
CHECKED BY: VIRGILIO B. BANCASO, DIVISION ENGINEER II, CAMARINES SUR
CONCURRED BY: NORMA B. SAMANTELA, CESO V, SCHOOL DIVISION SUPERINTENDENT

SET NO. 6 / 8
SHEET NO. 17 / 25



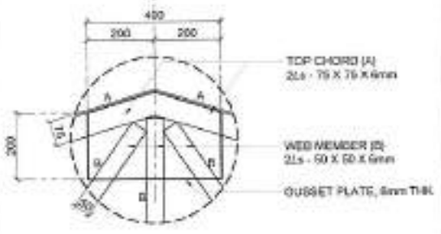
SCHEDULE OF MEMBERS AND WELDS

MARK	TRUSS MEMBERS SIZES	SIZE OF WELDS				REMARKS
		THICKNESS	LENGTH, mm			
			L_1	L_2	L_3	
A	2Ls - 75 x 75 x 6.00	6 mm	FULL WELD			
B	2Ls - 50 x 50 x 6.00	6 mm	FULL WELD			

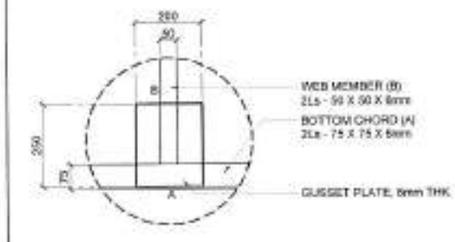
NOTES ON ROOF CONSTRUCTION:

1. IN ACTUAL FABRICATION OF STEEL TRUSSES, MEMBERS MEETING AT POINT SHALL HAVE THEIR GRAVITY OF AXIS INTERSECT AS NEARLY AS PRACTICABLE AT A COMMON POINT.
2. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACINGS AND SHORING, AND MAKE ACTUAL MEASUREMENTS IN THE FIELD PRIOR TO FABRICATION/ INSTALLATION OF ALL TRUSSES.
3. THE FABRICATOR/ CONTRACTOR SHALL SUBMIT SHOP DETAILED DRAWINGS PRIOR TO FABRICATION OF TRUSSES FOR APPROVAL OF THE DIRECTOR, BUREAUS OF DESIGN.

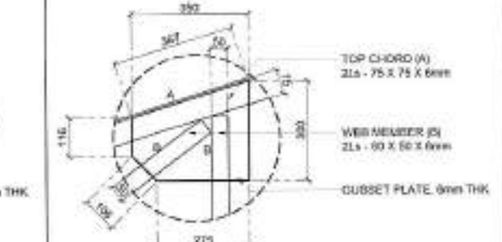
3 SCALE 1:30 M. — TRUSS DETAIL



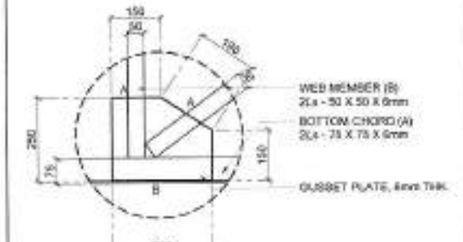
1 S-7 SCALE 1:10 M. — DETAIL - 1



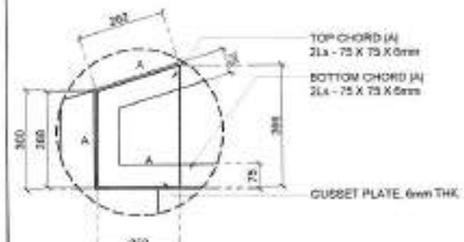
2 S-7 SCALE 1:10 M. — DETAIL - 2



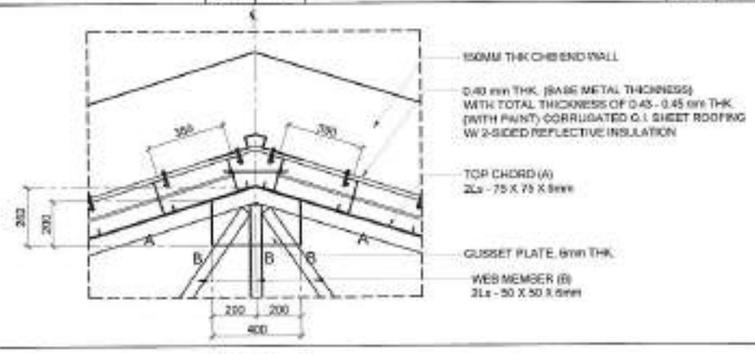
3 S-7 SCALE 1:10 M. — DETAIL - 3



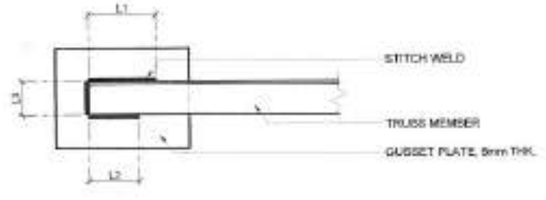
4 S-7 SCALE 1:10 M. — DETAIL - 4



5 S-7 SCALE 1:10 M. — DETAIL - 5



6 S-7 SCALE 1:15 M. — DETAIL - 6



2 SCALE 1:50 M. — REFERENCE WELD DETAIL

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., BAGAY, CAMARINES SUR
BAGAY, CAMARINES SUR

SHEET CONTENTS:
TRUSS DETAIL
REFERENCE WELD DETAIL

PREPARED BY:
KIRK HAMMER M. ALANO
CADD OP.
ERIKA MARIEN V. LOZANO
CHECKED BY:
DON ANDREW PARAFINA

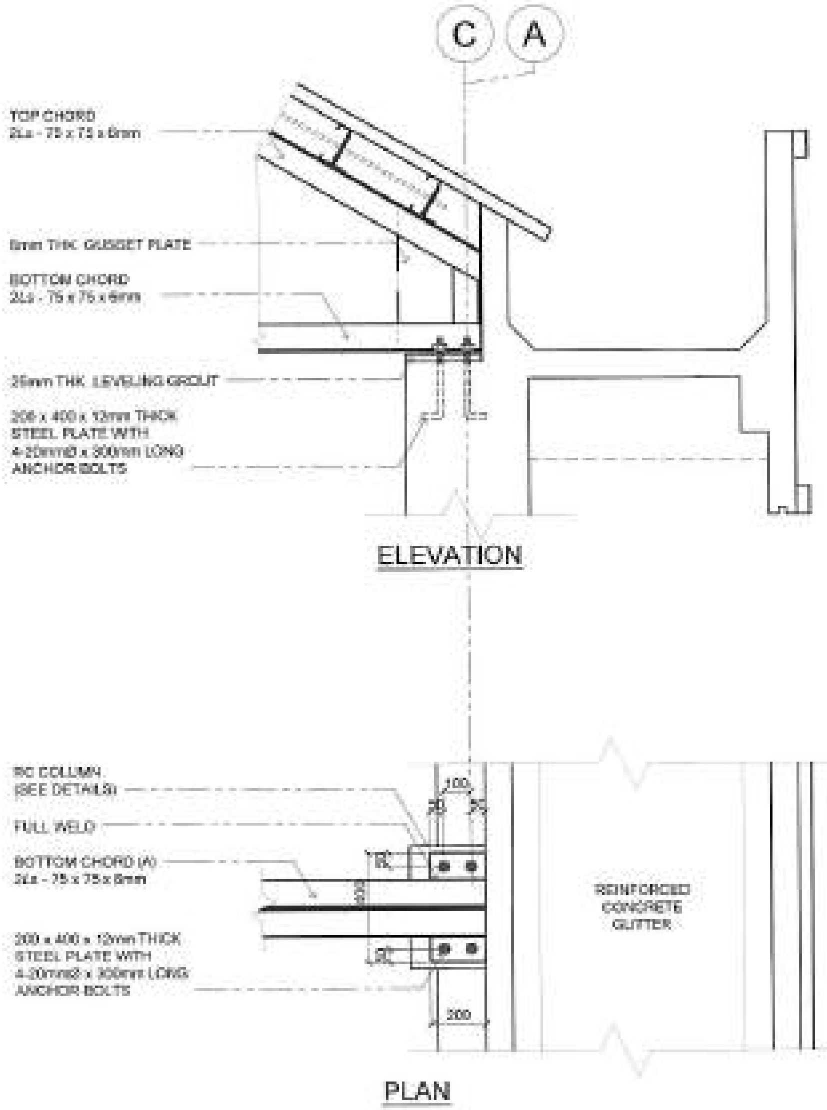
SUBMITTED BY:
RICHARD M. BALDON
CHIEF - CONSTRUCTION SECTION

RECOMMENDING APPROVAL:
JOSE ANGELO S. KARAGDAG
ASSISTANT DISTRICT ENGINEER

APPROVED BY:
RAMON ANSELMO C. CALLOS
DISTRICT ENGINEER

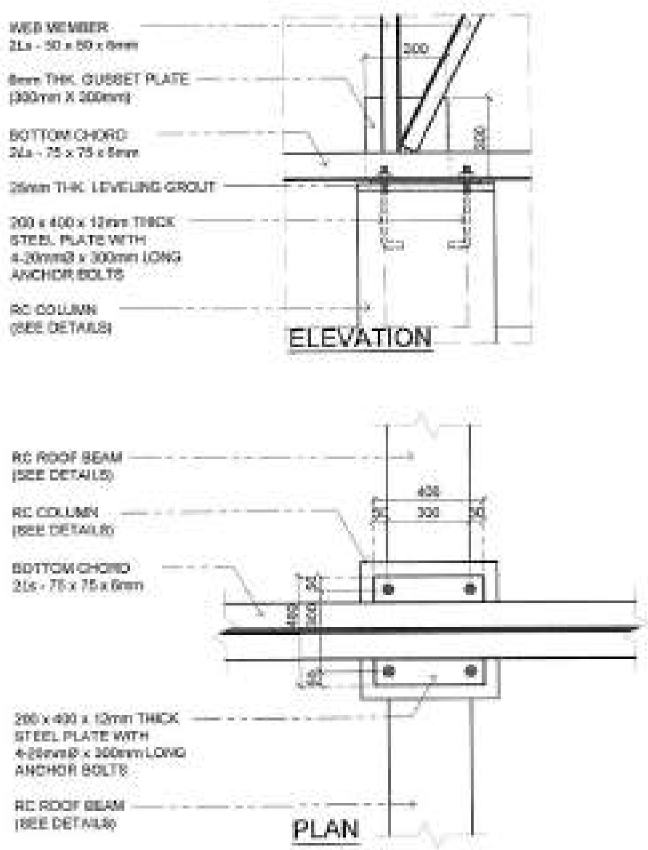
CHECKED:
VIRGILIO B. BANCASO
DIVISION ENGINEER III, CAMARINES SUR
CONCURRED BY:
NORMA B. SAMANTELA, CESO V
SCHOOL DIVISION SUPERINTENDENT

SET NO.: 7 of 8 | 8
SHEET NO.: 18 of 25



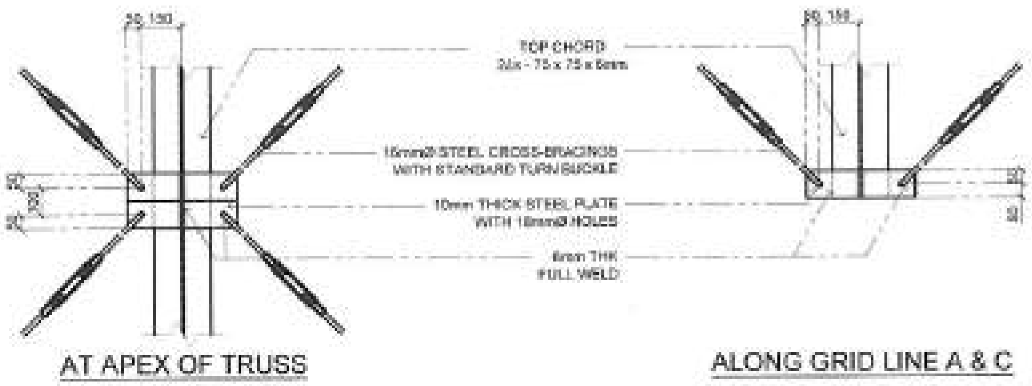
@ GRID LINE A & C

1
S-8
DETAIL OF TRUSS ANCHORAGE
SCALE 1:10 M.



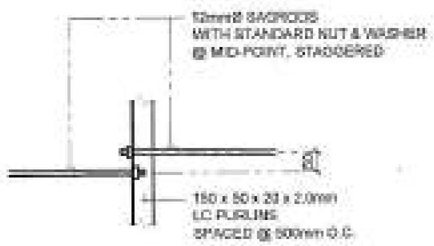
@ GRID LINE B

2
S-8
DETAIL OF TRUSS ANCHORAGE
SCALE 1:15 M.

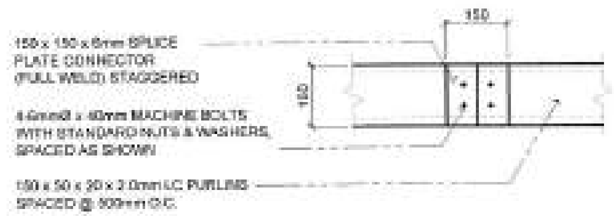


6
S-8
DETAIL CONNECTION OF CROSS-BRACING
SCALE 1:10 M.

7
S-8
DETAIL CONNECTION OF PURLIN TO TOP CHORD
SCALE 1:10 M.



8
S-8
DETAIL CONNECTION OF
PURLIN TO SAGROD
SCALE 1:10 M.



9
S-8
DETAIL OF PURLIN SPLICE
SCALE 1:10 M.

1 SCALE 1:40 M

ROOFING CONNECTIONS DETAILS

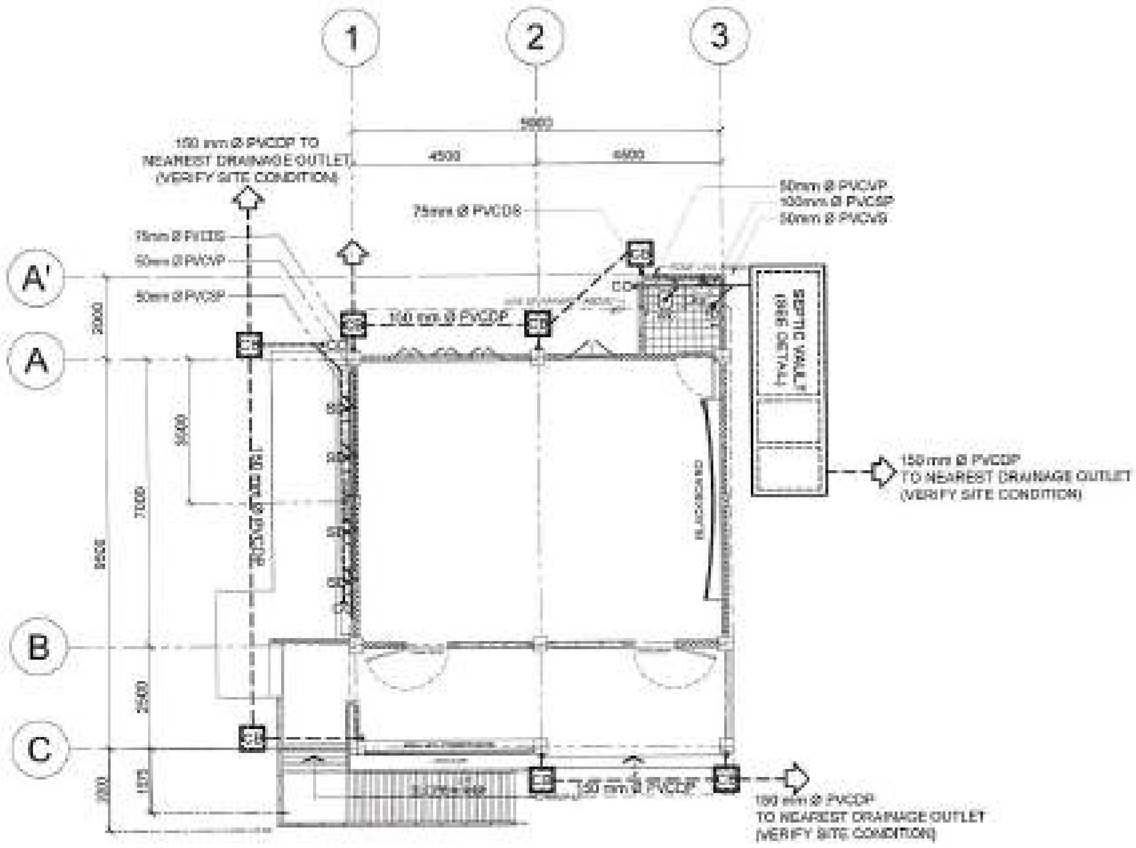
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Ragay, Camarines Sur	PROJECT TITLE AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR — RAGAY, CAMARINES SUR	SHEET CONTENTS: ROOFING CONNECTIONS DETAILS	PREPARED BY: KIRK HARVEY ARCILLANO; CADD BY: ERIKA MARIEN V. LOZANO; CHECKED BY: DON ARIESA PARAFINA	SUBMITTED BY: RICHARD M. BALDON, CHIEF - CONSTRUCTION SECTION	RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG, ASSISTANT DISTRICT ENGINEER	APPROVED BY: RAMON ANSELMO C. CALAGOS, DISTRICT ENGINEER	CHECKED BY: DIVISION ENGINEER III, CAMARINES SUR; CONCURRED BY: NORMA B. SAMANTELA, CESO V, SCHOOL DIVISION SUPERINTENDENT	SET NO.	SHEET NO. 19/25

PLUMBING NOTES:

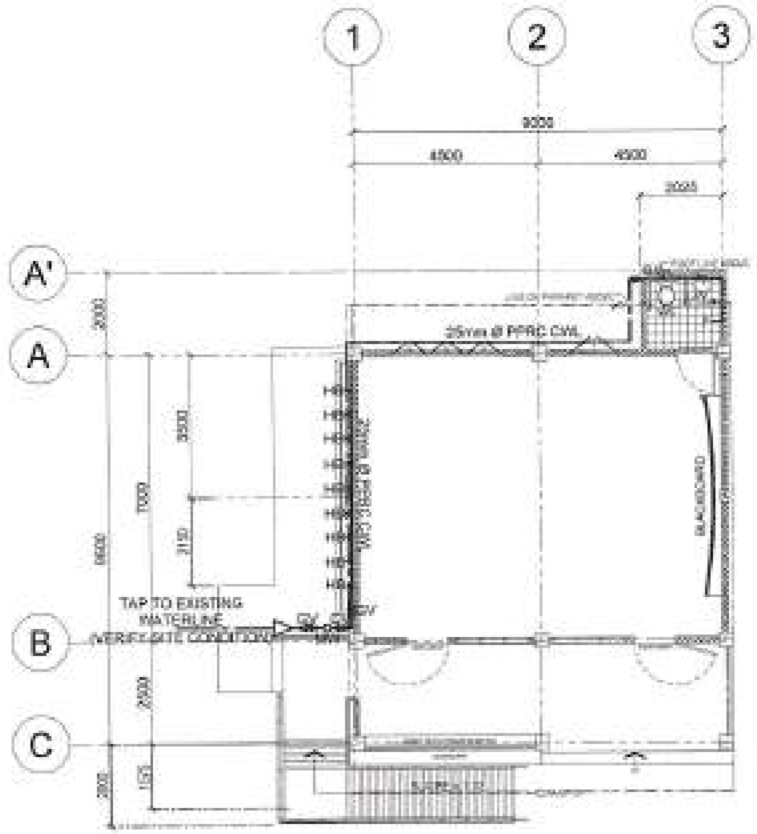
1. GRADES OF HORIZONTAL PIPING RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND AT A FORM GRADE OF NOT LESS THAN TWO PERCENT (2%).
2. CHANGE IN DIRECTION ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY FIVE DEGREES (45°) WYES, LONGSWEEP QUARTER BEND, SIX-EIGHT OR SIXTEENTH BENDS. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, ¼ BEND COMBINATION MAY BE USED ON WASTE LINE. TEE AND CROSSES MAY BE USED IN VENT PIPES.
3. PROHIBITED FITTINGS NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL WASTE LINES. THE DRILLINGS AND TAPPINGS OF HOUSE DRAIN. WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BEND ARE PROHIBITED.
4. SLEEVES PROVIDE PIPE SLEEVES AT WALLS, COLUMNS OR SLABS ONE SIZE BIGGER THAN THE ACTUAL SIZE PASSING THROUGH THE WALLS, COLUMNS OR UNDER SLAB TO PROTECT PIPE FROM BREAKAGE.
5. PIPE CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
   a. EVERY CHANGE IN HORIZONTAL DIRECTIONS EXCEEDING TWENTY-TWO AND ONE-HALF DEGREES (22 ½°).
   b. ONE AND ONE-HALF METERS (1.50 m) INSIDE THE PROPERTY LINE BEFORE THE HOUSE DRAINAGE CONNECTION.
   c. EVERY FIFTEEN METERS (15.00 m) IN HORIZONTAL RUN OF PIPES.
   d. AT THE END OF ANY HORIZONTAL PIPE LINES.
5. THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
6. NOT LESS THAN 300 mm OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE VAULT ROOF SLAB.
7. NO SEPTIC VAULT MUST BE CONSTRUCTED UNDER THE BUILDING.
8. ALL PLUMBING WORKS SHALL BE DONE BY A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.

PLUMBING LEGEND:

CO	CLEAN-OUT	PPRC CWL	POLYPROPYLENE RANDOM COPOLYMER COLD WATER LINE TYPE 3, PN 20 (ISO 15874 / JOINING BY SOCKET FUSION)
CV	CHECK VALVE	PVCDP	POLYVINYL CHLORIDE DRAIN PIPE (SERIES 1000) ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564
RD	ROOF DRAIN		
FD	FLOOR DRAIN		
GV	GATE VALVE	PVCDS	POLYVINYL CHLORIDE DOWNSPOUT (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
LAV	LAVATORY		
KS	KITCHEN SINK	PVCSP	POLYVINYL CHLORIDE SOIL PIPE (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
SD	SINK DRAIN		
MH	MANHOLE		
WC	WATER CLOSET	PVCVP	POLYVINYL CHLORIDE VENT PIPE (SERIES 600) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
WM	WATER METER	PVCVS	POLYVINYL CHLORIDE VENT STACK (SERIES 600) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
HB	HOSE BIBB		
F	FAUCET	PVCVTR	POLYVINYL CHLORIDE VENT THRU ROOF (SERIES 600) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)



1 SCALE 1:100 M FLOOR PLAN (SEWER AND DRAINAGE LAYOUT)

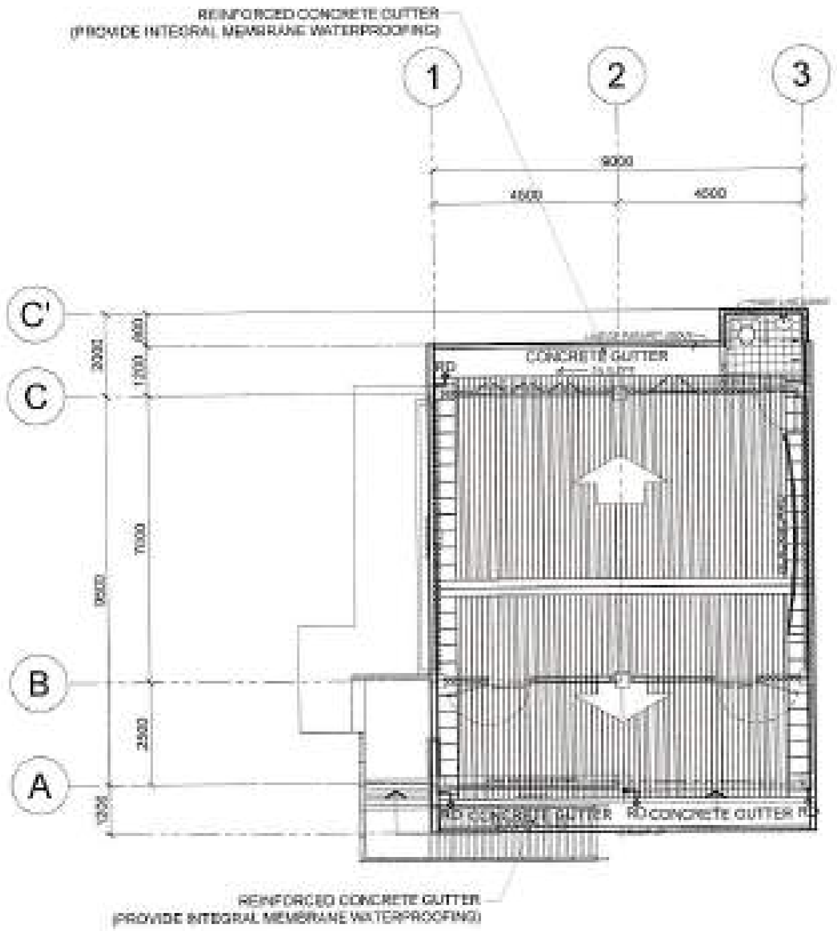


2 SCALE 1:100 M FLOOR PLAN (WATER LINE LAYOUT)

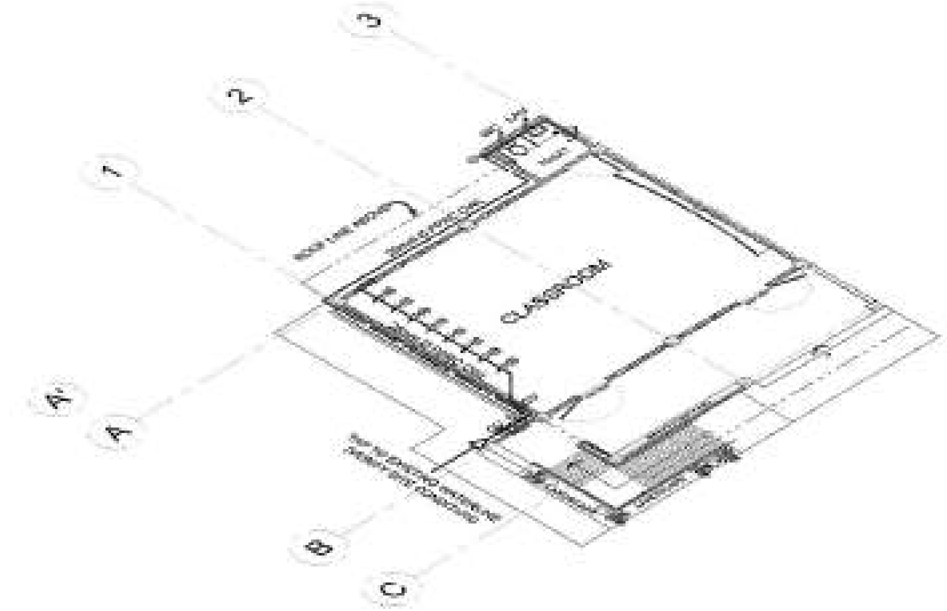
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Baao, Camarines Sur	PROJECT TITLE AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR** RAGAY, CAMARINES SUR	SHEET CONTENTS: SEWER & DRAINAGE LAYOUT WATER LINE LAYOUT PLUMBING NOTES PLUMBING LEGENDS	PREPARED BY: KIRK HA... LANO CADD BY: ERIKA MA... LOZANO CHECKED BY: ARDIE T. BONDOC, ENGINEER II

SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	CHECKED BY: / CONCURRED BY:	SET NO:	SHEET NO:
RI... BALDON CHIEF - CONSTRUCTION SECTION	...ANGELO B. KARAG... ASSISTANT DISTRICT ENGINEER	RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	... DIVISION ENGINEER ... CAMARINES SUR NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	1 P 3	20 25

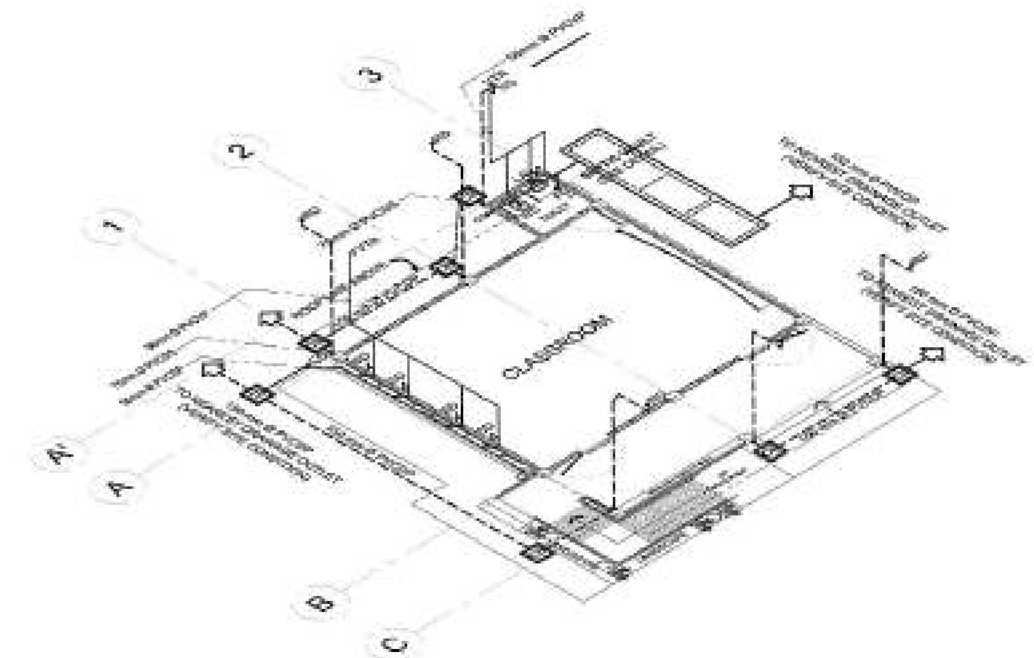
1 SCALE 1:500 M SITE DEVELOPMENT PLAN



2 SCALE 1:100 M ROOF PLAN (STORM DRAINAGE LAYOUT)

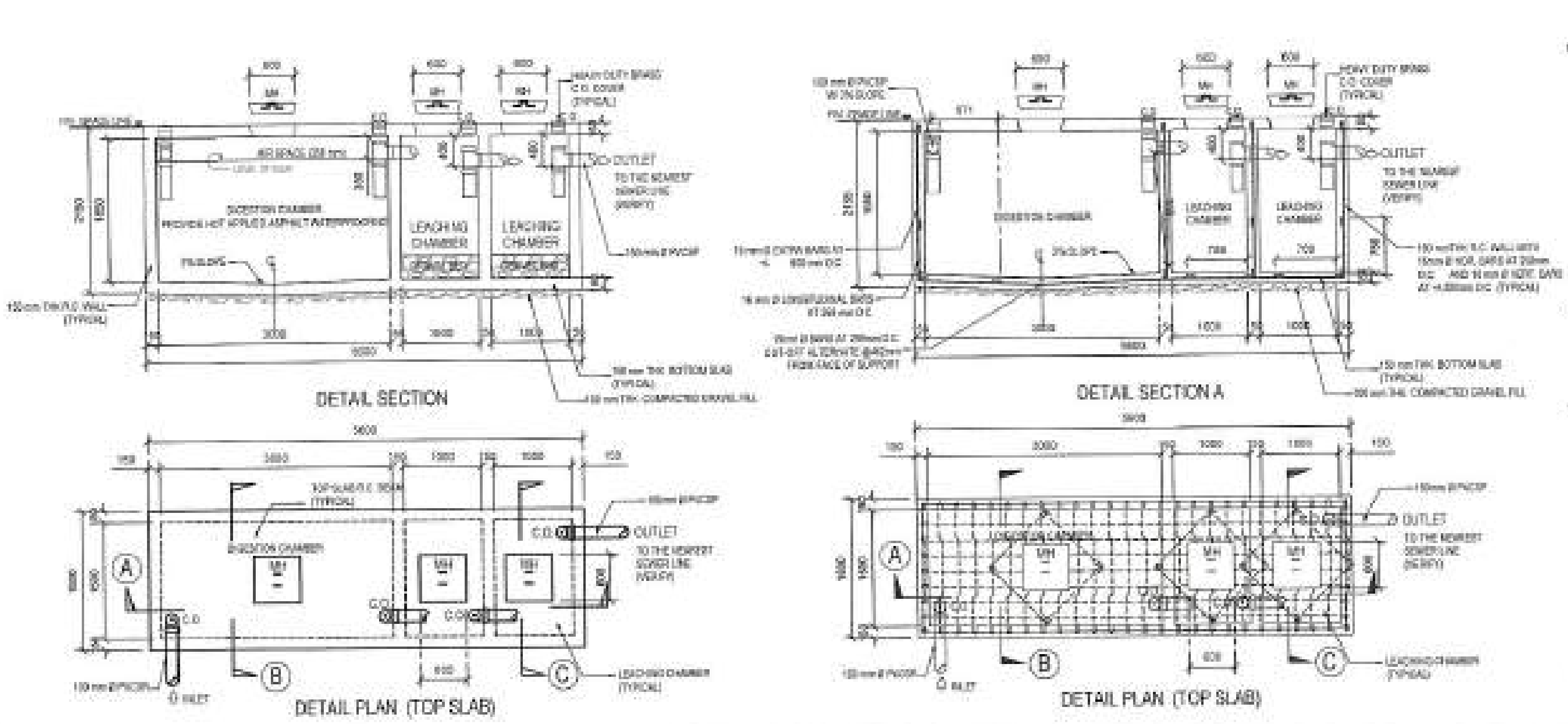


3 SCALE NTS ISOMETRIC DIAGRAM (WATER LINE LAYOUT)



4 SCALE NTS ISOMETRIC DIAGRAM (SANITARY AND STORM DRAINAGE LAYOUT)

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Baras, Canaman, Camarines Sur	PROJECT TITLE AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR** RAGAY, CAMARINES SUR	SHEET CONTENTS: SITE DEVELOPMENT PLAN ROOF DRAINAGE LINE LAYOUT ISOMETRIC DIAGRAM WATER LINE LAYOUT SANITARY & STORM DRAINAGE	PREPARED BY: KIRK HAMMER ... ALANO CADD BY: ERIKA MARIEN ... LOZANO CHECKED BY: ARDIE T. BONDOC ENGINEER II	SUBMITTED BY: RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	APPROVED BY: RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	CHECKED BY: VIRGILIO B. ... DIVISION ENGINEER III CAMARINES SUR CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	SET NO: 2 P 3	SHEET NO: 21 25

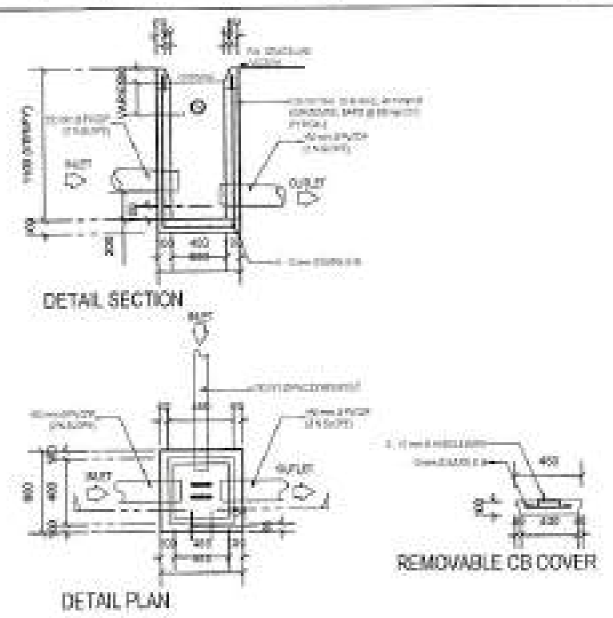


3 SCALE 1:50 M

DETAIL OF SEPTIC VAULT

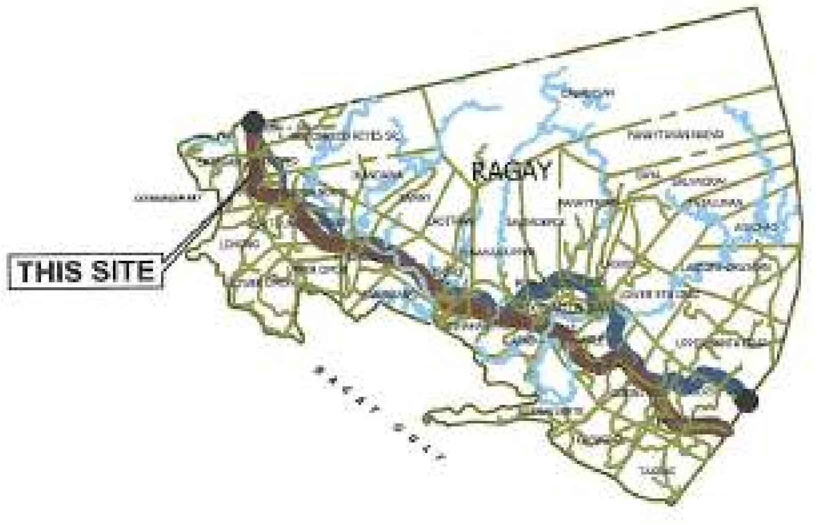
SCHEDULE OF TOP SLAB REINFORCEMENT

MARK	TOP SLAB	
	SHORT DIRECTION	LONG DIRECTION
S - 1	16 mm Ø BARS @ 100 mm O.C. BENT-UP 2 DIST. OF 3 @ L/4 FROM FACE OF SUPPORT	16 mm Ø BARS @ 150 mm O.C. TEMPERATURE BARS
S - 2	16 mm Ø BARS @ 200 mm ON CENTER	16 mm Ø BARS @ 100 mm ON CENTER



3 SCALE 1:50 M

DETAIL OF CATCH BASIN



1 SCALE NTS

LOCATION MAP

2 SCALE NTS

VICINITY MAP

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Basud, Canaman, Camarines Sur	PROJECT TITLE AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR** RAGAY, CAMARINES SUR	SHEET CONTENTS: DETAIL OF SEPTIC VAULT DETAIL OF CATCH BASIN SITE DEVELOPMENT PLAN LOCATION MAP VICINITY MAP	PREPARED BY: KIRK HAMMET MAGANO CADD BY: ERIKA MARDEN V. LOZANO CHECKED BY: ARDIE T. BONDOC	SUBMITTED BY: RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	APPROVED BY: RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	CHECKED BY: VIRGILIO B. BANCASO DIVISION ENGINEER OF CAMARINES SUR CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	SET NO. 3 P 1	SHEET NO. 22 25

GENERAL NOTES/SPECIFICATIONS:

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, EXISTING APPLICABLE ORDINANCES, RULES AND REGULATIONS OF THE LOCAL GOVERNMENT AND WITH THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. THE TYPE OF SERVICE POWER SUPPLY TO BE USED SHALL BE SINGLE-PHASE, 2-WIRE, 230V, 60HERTZ, A.C.
3. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER COMPANY SERVICE POINT.
4. UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZES OF WIRE AND GALVANIZED RIGID STEEL CONDUIT TO BE USED SHALL BE 3.5mm THHN AND 15mm NOMINAL DIAMETER, RESPECTFULLY, LIKEWISE ALL ELECTRICAL WIRES SHALL BE COLOR-CODED.
5. ALL LIGHTING CIRCUIT HOMERUNS AND CONVENIENCE OUTLETS SHALL BE WIRED WITH NOT LESS THAN 3.5mm IN SIZE.
6. WHEREVER REQUIRED AND NECESSARY, PULL OR JUNCTION BOXES SHALL BE INSTALLED AT CONVENIENT AND INCONSPICUOUS LOCATION, ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLAN NOR MENTIONED IN THE SPECIFICATIONS.
7. ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISIONS IN ARTICLE 2.50 "GROUNDING" PHILIPPINE ELECTRICAL CODE, VOLUME 1, 2000 EDITION.
8. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR LOCATION AND PURPOSE.
9. STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATIONS AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
10. ALL WALL OUTLETS SHALL BE INSTALLED AT THE FOLLOWING HEIGHTS ABOVE THE FINISHED FLOOR LEVEL UNLESS NOTED IN THE PLANS.
    A. WALL SWITCHES @ 1300mm
    B. WALL CONVENIENCE OUTLETS @ 300mm OR 150mm ABOVE WORKTABLE/COUNTER
    C. PANEL BOARD @ 1800mm
    D. EMERGENCY LIGHT OUTLETS @ 2300mm
11. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

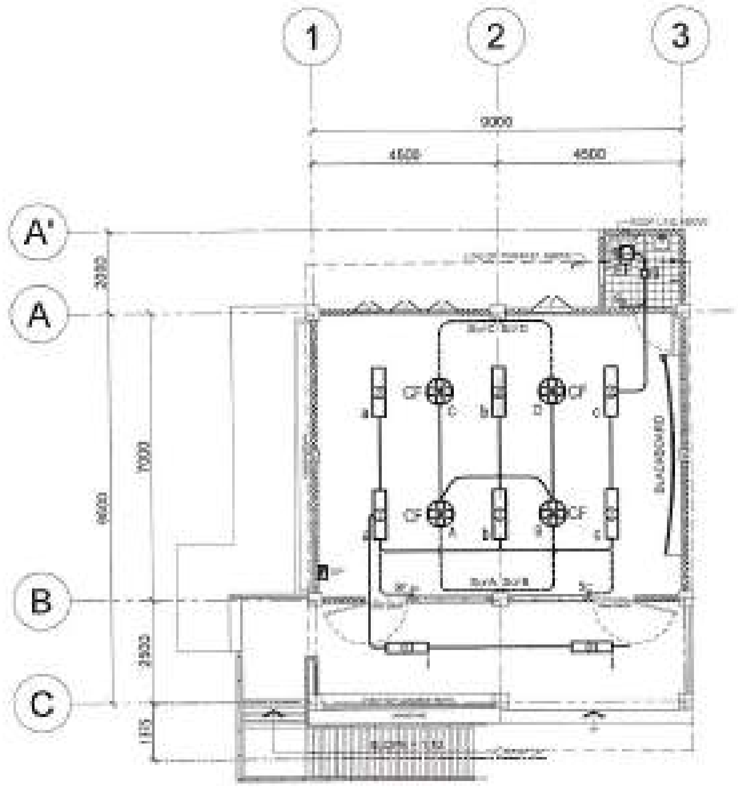
3 SCALE NTS — LOCATION MAP

4 SCALE 1:100 M — VICINITY MAP

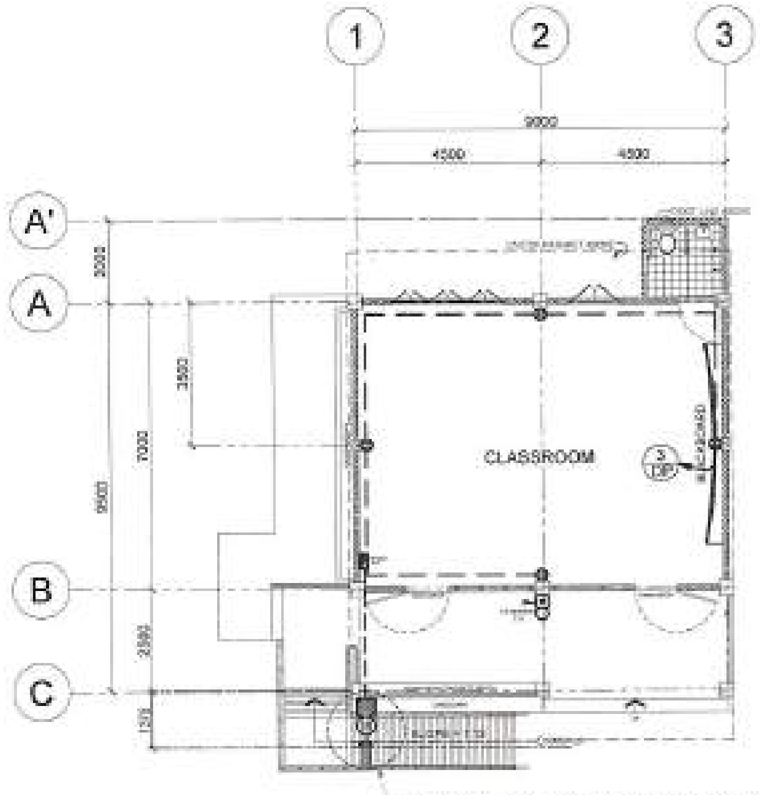
SCHEDULE OF LIGHTING FIXTURES AND LAMPS

SYMBOLS	DESCRIPTION	INSTALLATION/ MOUNTING
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]

NOTE: [illegible]



1 SCALE 1:100 M — FLOOR PLAN (LIGHTING LAYOUT)



PROPOSED OVERHEAD ELECTRICAL SERVICE ENTRANCE
(REFER TO ELECTRICAL RISER DIAGRAM)
NOTE: VERIFY EXACT LOCATION

2 SCALE 1:100 M — FLOOR PLAN (POWER LAYOUT)

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CAMARINES SUR 1ST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE V
Baras, Canaman, Camarines Sur

PROJECT TITLE AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR
RAGAY, CAMARINES SUR

SHEET CONTENTS:
LIGHTING LAYOUT
POWER LAYOUT
GENERAL NOTES
SCHEDULE OF LIGHTING FIXTURES AND LAMPS
LOCATION MAP
VICINITY MAP

PREPARED BY: KIRK HAMMEL ALANO
CADD BY: ERIKA MARIEN V. LOZANO
CHECKED BY: SHERIN A. ARENAS, ENGINEER II

SUBMITTED BY: RICHARD M. BALDON, CHIEF, CONSTRUCTION SECTION
RECOMMENDING APPROVAL: JOSE ANGELO B. KARAGDAG, ASSISTANT DISTRICT ENGINEER
APPROVED BY: RAMON ANSELMO C. CALAGOS, DISTRICT ENGINEER
CHECKED BY: VIRGILIO B. BANCASO, DIVISION ENGINEER III, CAMARINES SUR
CONCURRED BY: NORMA B. SAMANTELA, CESO V, SCHOOL DIVISION SUPERINTENDENT

SET NO: 1 / E 2
SHEET NO: 23 / 23

ELECTRICAL SYMBOLS :

- CEILING LIGHT OUTLET (REFER TO SCHEDULE OF LIGHTING FIXTURE AND LAMPS)
- CEILING LIGHT OUTLET (REFER TO SCHEDULE OF LIGHTING FIXTURE AND LAMPS)
- CEILING FAN CONTROL SWITCH
- SINGLE POLE WALL SWITCH IN ONE SWITCH PLATE (10 AMP, 230 VOLTS)
- 2 SINGLE POLE WALL SWITCH IN ONE SWITCH PLATE (10 AMP, 230 VOLTS)
- 3 SINGLE POLE WALL SWITCH IN ONE SWITCH PLATE (10 AMP, 230 VOLTS)
- THREE WAY WALL SWITCH (10 AMP, 230 VOLTS)
- FLOOR CONVINIENCE OUTLET, DUPLEX GROUNDING TYPE (20A, 250 VOLTS)
- DUPLEX CONVINIENCE OUTLET, GROUNDING TYPE, "WP" DENOTES WEATHERPROOF OUTLET (20A, 250 VOLTS)
- SINGLE CONVINIENCE OUTLET, GRUNDING TYPE, "EF" DENOTES EXHAUST FAN (15 AMP , 230 VOLTS)
- CONCEALED OR EMBEDDED CONDUIT RUN
- UNDERGROUND OR UNDERFLOOR CONDUIT RUN
- CONDUIT HOMERUN
- ENCLOSED CIRCUIT BREAKER RATING AS SHOWN ON THE PLAN
- PULLBOX
- MAIN DISTRIBUTION PANELBOARD
- DISTRIBUTION PANELBOARD
- ELECTRIC SERVICE METER
- ELECTRIC SERVICE ENTRANCE
- GROUNDING SYSTEM
- FIRE ALARM CONTROL PANEL

PANELBOARD: PB1 NEMA 1 ENCLOSURE, BOLT-ON CENTER MAIN, PLUG IN BRANCHES, SURFACE TYPE WITH GROUND TERMINAL BLOCK

CKT #	LOAD DESCRIPTION	VA LOAD	AMP	CIRCUIT BREAKER					WIRE & CONDUIT SIZE
				VOLT	POLE	TA	AF	kAIC	
1	LIGHTING OUTLET	540	2.35	230	2	20	50	10	2 - 3.50mm² THHN WIRE STRANDED IN 20mmø uPVC 1 - 3.50mm² TW (G) WIRE STRANDED IN 20mmø uPVC
2	CEILING FAN OUTLET	300	1.30	230	2	20	50	10	2 - 3.50mm² THHN WIRE STRANDED IN 20mmø uPVC 1 - 3.50mm² TW (G) WIRE STRANDED IN 20mmø uPVC
3	CONVENIENCE OUTLET	720	3.13	230	2	20	50	10	2 - 3.50mm² THHN WIRE STRANDED IN 20mmø uPVC 1 - 3.50mm² TW (G) WIRE STRANDED IN 20mmø uPVC
4	SPARE	2500	10.87	230	2	20	50	10	
5	SPARE	2500	10.87	230	2	20	50	10	
6	SPARE	2500	10.87	230	2	20	50	10	
TOTAL		9060	39.39	60AT / 100AF, 2P, 230V, 22kAIC					

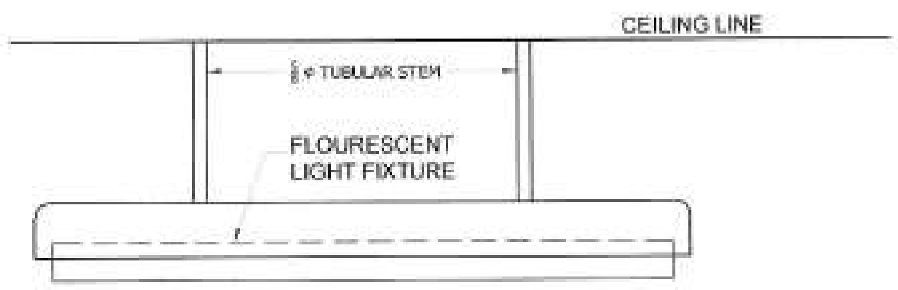
DESIGN COMPUTATION

IL =39.39+0+(0x0.25)
=39.39A

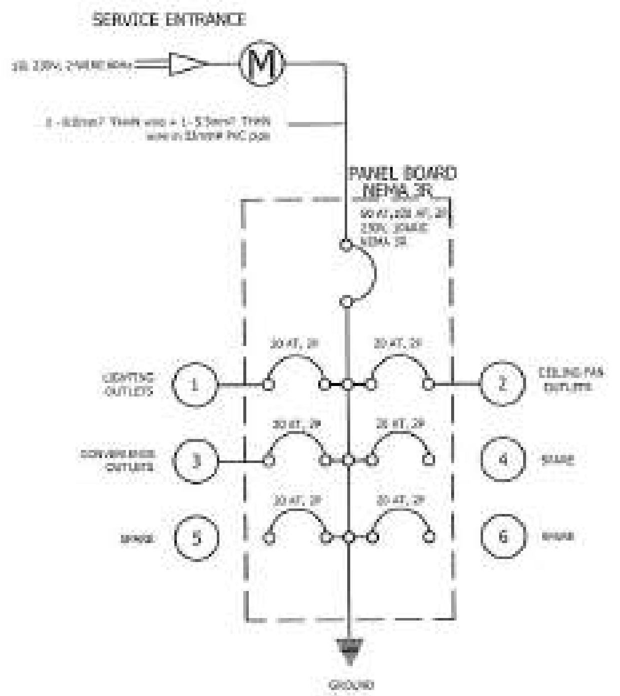
Icb =39.39 x 1.25 x (0.85DF)
=41.85 A

Ifeeder =39.39 x 1.25
=49.24 A

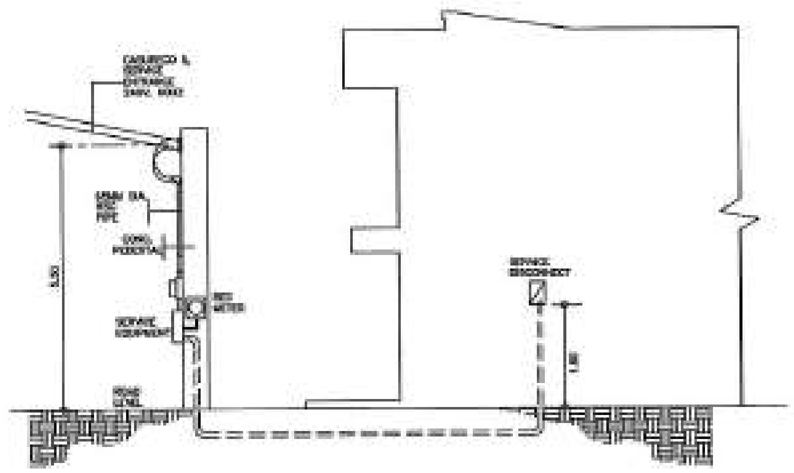
USE -2C- 8.0mm² THHN cu + 1C -5.50mm² TW cu (G) in 25 mmø PVC Pipe (49.24A/55A)



1 SCALE NTS FLOURESCENT LIGHT FIXTURE MOUNTING DETAIL

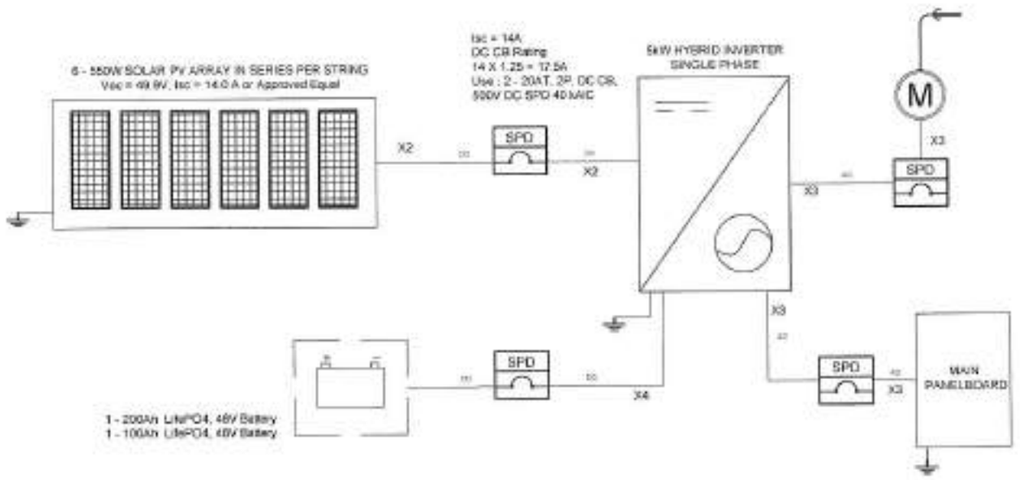


2 SCALE NTS SINGLE LINE DIAGRAM (PANEL BOARD)



3 SCALE NTS ELECTRICAL RISER DIAGRAM

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CAMARINES SUR 1ST DISTRICT ENGINEERING OFFICE REGIONAL OFFICE V Baras, Canaman, Camarines Sur	PROJECT TITLE AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, GODOFREDO REYES SR. HIGH SCHOOL, BARANGAY GODOFREDO REYES SR., RAGAY, CAMARINES SUR** RAGAY, CAMARINES SUR	SHEET CONTENTS: SCHEDULE OF LOADS AND COMPUTATION SINGLE LINE DIAGRAM FLOURESCENT LIGHT FIXTURE MOUNTING DETAIL ELECTRICAL RISER DIAGRAM ELECTRICAL SYMBOLS	PREPARED BY: KIRK HAMMER ALANO CADD BY: ERIKA MARIEN V. LOZANO CHECKED BY: SHERIN A. ARENAS ENGINEER II	SUBMITTED BY: RICHARD M. BALDON CHIEF - CONSTRUCTION SECTION	RECOMMENDING APPROVAL: JOSE ANGELO S. KARAGDAG ASSISTANT DISTRICT ENGINEER	APPROVED BY: RAMON ANSELMO C. CALAGOS DISTRICT ENGINEER	CHECKED BY: VIRGILIO B. SANCASO DIVISION ENGINEER II, CAMARINES SUR CONCURRED BY: NORMA B. SAMANTELA, CESO V SCHOOL DIVISION SUPERINTENDENT	SET NO. 2 E 3 SHEET NO. 24 25



3 | SCALE: NTS | SINGLE LINE DIAGRAM (SOLAR)

LOAD ANALYSIS				
LOADS	**WATTS**	**Hr/Day**	**QUANTITY**	**WHr/Day**
LIGHT OUTLETS	58	8	6	2688
CEILING FAN	80	8	4	1920
CONVENIENCE OUTLET	200	6	4	4800
TOTAL				9408

PV POWER = 9408 W (0.25) (1.3)
PV POWER = 3057.6 W

No. of Panels = 3057.6W / 550W
No. of Panels = 6 Monocrystalline Panels

String Output Voltage = 42V * 6 Panels/String
String Output Voltage = 252 Volts

Use: 6 - 550W Solar Monocrystalline Panels

Total PV Power = 3057.6 W

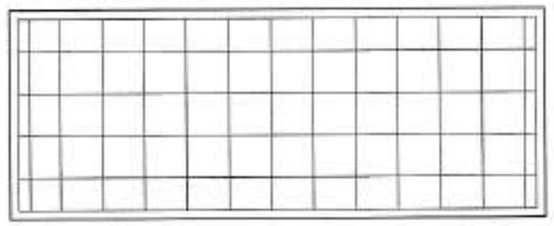
Use : 5kW hybrid Inverter, Single Phase

Battery Capacity = 9408(1.25)/(0.95*48V)
Battery Capacity = 288 Ah

Use:
1- 200Ah Battery - 48V LifePO4
1 - 100 Ah Battery - 48V LifePO4

1 | SCALE: NTS | LOADING ANALYSIS (SOLAR)

SOLAR PANEL SPECIFICATION



MAXIMUM POWER (PMAX) = 550W
OPEN CIRCUIT VOLTAGE (VOC) = 49.9v
SHORT CIRCUIT CURRENT = 14.00 A
VOLTAGE AT MAXIMUM POWER (VMP) = 41.95V
CURRENT AT MAXIMUM POWER = 13.14 A

2 | SCALE: NTS | SOLAR PANEL SPECIFICATION

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RAGAY, CAMARINES SUR

SHEET CONTENTS:
LOADING ANALYSIS (SOLAR)
SOLAR PANEL SPECIFICATIONS
SINGLE LINE DIAGRAM (SOLAR)

PREPARED BY:
KIRK HARRIET C. ALANO
CADD OPERATOR
CADD BY:
ERIKA MAE R. LOZANO
CHECKED BY:
SHERIN A. ARENAS
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SUBMITTED BY:
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ASSISTANT DISTRICT ENGINEER

APPROVED BY:
RAMON ANSELMO C. CALAGOS
DISTRICT ENGINEER

CHECKED BY:
VINCENT B. BANZON
DIVISION ENGINEER III, CAMARINES SUR
CONCURRED BY:
NORMA P. SAMANTELA, CESO V
SCHOOLS DIVISION SUPERINTENDENT

SET NO: 3 of 3
SHEET NO: 25 of 25