Republic of the Philippines
PHILIPPINE ECONOMIC ZONE AUTHORITY
Cavite Economic Zone, Rosario Cavite

REHABILITATION OF CEZ FIRE STATION AT THE CAVITE ECONOMIC ZONE (CEZITB 2024-10-009)

October 2024
Sixth Edition

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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

REHABILITATION OF CEZ FIRE STATION AT THE CAVITE ECONOMIC ZONE (CEZITB 2024-10-009)

1. The PHILIPPINE ECONOMIC ZONE AUTHORITY-CAVITE ECONOMIC ZONE (PEZA-CEZ), through the Corporate Operating Budget for CY 2024 intends to apply the sum of **Pesos: Thirteen Million Nine Hundred Thirty Thousand Five Hundred Eighty-Eight and 25/100 Only (₱13,930,588.25)** being the Approved Budget for the Contract (ABC) to payments under the contract for the **Rehabilitation of CEZ Fire Station at the Cavite Economic Zone (CEZITB 2024-10-009)**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The PEZA-CEZ now invites bids for the above Procurement Project. Completion of the Works is required within **One Hundred Eighty (180) Calendar Days which shall commence three (3) days from the date of receipt of Notice to Proceed (NTP)**. Bidders should have completed, within **the last five (5) years** from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

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

   Bidding is restricted to Filipino citizens/sole proprietorships, cooperatives, and partnerships, or organizations with at least seventy five percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines.

4. Interested bidders may obtain further information from **CEZ-BAC Secretariat** and inspect the Bidding Documents at the address given below from **Monday to Friday from 8:00 a.m. to 5:00 p.m.**

5. A complete set of Bidding Documents may be acquired by interested bidders on **25 October 2024** from the given address and website/s below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Twenty Five Thousand Pesos Only (₱25,000.00)**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.

   Interested bidders shall send an email at **cezbac@peza.gov.ph** for the issuance of an order of payment. All PEZA transactions and fees can only be paid through **https://epay.peza.gov.ph**.

6. The PEZA-CEZ will hold a Pre-Bid Conference on **4 November 2024, 1:30 pm** at **2F New Administration Building, Cavite Economic Zone, Rosario, Cavite**, **and/or through videoconferencing / webcasting via Microsoft Teams**, which shall be open to all prospective bidders. For bidders who wish not to be physically present during the pre-bid

conference, the BAC Secretariat shall email invite/meeting ID and password to those who signify their intent via email below.

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address as indicated below, on or before **1:00 pm, 20 November 2024**. Late bids shall not be accepted.

8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.

9. Bid opening shall be on **20 November 2024, 1:30 pm** at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. In any case the above date is declared a special non-working holiday, it will automatically be reset on the next working day.

11. The PEZA-CEZ reserves the right to reject any and all bids, annul the bidding process, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

Secretariat, CEZ-Bids and Awards Committee
Phil. Economic Zone Authority-Cavite Economic Zone
1/F New Administration Bldg., CEZ, Rosario, Cavite
Tel. Nos. (046) 4376146 / 4376070
Tel./Fax No. (046) 437-6090
Email: **cezbac@peza.gov.ph**

13. You may visit the following websites:

For downloading of Bidding Documents:

a. PEZA Website (**https://www.peza.gov.ph/bid-opportunities**); or
b. Philgeps Website

23 October 2024

Ms. JESSICA M. ITAAS
Chairperson, CEZ-BAC

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, ***PEZA-Cavite Economic Zone*** invites Bids for the ***Rehabilitation of CEZ Fire Station at the Cavite Economic Zone*** with Project Identification Number ***CEZITB 2024-10-009***.

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 ***Corporate Operating Budget for CY 2024*** in the amount of ***Pesos: Thirteen Million Nine Hundred Thirty Thousand Five Hundred Eighty-Eight and 25/100 Only (₱13,930,588.25)***.

2.2. The source of funding is:

a. GOCC and GFIs, the Corporate Operating Budget.

3. Bidding Requirements

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

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

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

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

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

5. Eligible Bidders

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

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

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

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

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

6. Origin of Associated Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address **2F New Administration Building, Cavite Economic Zone, Rosario, Cavite** and/or through videoconferencing/ webcasting} as indicated in paragraph 6 of the **IB.**

4 November 2024, 1:30pm

For bidders who wish not to be physically present during the pre-bid conference, CEZ-BAC Secretariat shall email invite/meeting ID and password to those who signify their intent via email **cezbac@peza.gov.ph**

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

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

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

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

11. Documents Comprising the Bid: Financial Component

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

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

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

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

a. Philippine Pesos.

15. Bid Security

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

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

16. Sealing and Marking of Bids

Each Bidder shall submit two (2) copies of the first and second components of its Bid. (one original and one duplicate copy)
The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

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

17. Deadline for Submission of Bids

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

(i) manual submission at the Secretariat, CEZ BAC, 1F EAD Office, New Admin Bldg. PEZA Cavite Economic Zone Rosario Cavite, on or before 1:00pm, 20 November 2024

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

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

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

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

Bid Data Sheet

<table>
<tr><th>ITB Clause</th><th></th></tr>
<tr><td>5.2</td><td>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:

a) Residential, Commercial, School or Office building and fit-out works.
b) Completed within the last five (5) years prior to the deadline for the submission and receipt of bids</td></tr>
<tr><td>7.1</td><td>Subcontracting is not allowed.</td></tr>
<tr><td>10.3</td><td>valid PCAB License

a. Size Range: <u>Small B</u>
b. License Category: <u>C & D</u>
c. Allowable Range of Contract Cost: <u>up to 30M</u></td></tr>
<tr><td>10.4</td><td>The key personnel must meet the required minimum years of experience set below:

<table>
<tr><th>Key Personnel</th><th>General Experience (Years)</th><th>Relevant Experience (Years)</th></tr>
<tr><td>Project Manager</td><td>5</td><td>3</td></tr>
<tr><td>Project Engineer</td><td>5</td><td>3</td></tr>
<tr><td>Construction Foreperson (Foreman)</td><td>5</td><td>3</td></tr>
<tr><td>Safety Officer</td><td>3</td><td>2</td></tr>
</table>
</td></tr>
<tr><td>10.5</td><td>The minimum major equipment requirements are the following:

<table>
<tr><th>Equipment</th><th>Number of Units</th><th>Minimum Capacity</th></tr>
<tr><td>Jack hammer</td><td>1</td><td>Rated Power: 1750 W, Impact Energy : 41 J</td></tr>
<tr><td>Concrete Mixer 1 Bagger</td><td>1</td><td>4.0 cu.ft. /min Drum Capacity</td></tr>
<tr><td>Dump Truck</td><td>1</td><td>5 cu.m.</td></tr>
</table>
</td></tr>
<tr><td>12</td><td>Value Engineering not allowed.</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 <u>₱278,611.77</u> [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 <u>₱696,529.41</u> [five percent (5%) of ABC] if bid security is in Surety Bond.</td></tr>
</table>

19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	The S/LCB shall submit ***two (2) sets of true copies of the original certified as such by the bidder or his duly authorized signatory*** within a ***non-extendible period of five (5) calendar days*** from receipt of the notification **arranged, numbered and tabbed as enumerated below**: 1. Certified true copy of Income Tax Return stamped received by BIR or its duly accredited and authorized institution for the immediately preceding year and six (6) consecutive months immediately prior to the submission of the Bid Proposal filed thru Electronic Filing and Payment System (e-FPS) of the BIR and duly validated confirmation as evidence to the tax payments made; 2. Certified true Copy of latest Business Tax Returns regarding VAT or Percentage Tax duly filed thru Electronic Filing and Payment System (e-FPS) of the BIR and duly validated confirmation as evidence to the tax payments made (Filing Reference Number) covering six (6) consecutive months immediately prior to the submission of the Bid Proposal. The Business Tax Return shall either be quarterly, monthly or a combination of both provided that the above requirement is complied.; 3. Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document; 4. Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; 5. Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR). *6.* Articles of Incorporation and General Information Sheet (GIS), in case the Bidder has submitted a SEC registration, if applicable; *The latest income and business tax returns are those within the last six months preceding the date of bid submission.* *Failure of the Bidder declared as LCB to duly submit the requirements stated above or a finding against the veracity thereof shall be ground for forfeiture of the bid security and disqualify the Bidder for award.*
21	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, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling. ***(to be submitted by winning bidder only)*** 2. Certificate of Site Inspection issued by the CEZ-Engineering & Maintenance Division. ***(shall be submitted with the Bid)*** *3.* At least two (2) Certificate of Satisfactory Performance for completed projects issued by different contracting clients indicating that is has not incurred delay or negative slippage in the performance of its contract supported by accomplishment report and Gantt chart. ***(shall be submitted with the Bid)***

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

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

6. Site Investigation Reports

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

7. Warranty

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

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	The Intended Completion Date is **One Hundred Eighty (180) Calendar Days which shall commence three (3) days from the date of receipt of Notice to Proceed (NTP)**.
4.1	Upon receipt of the Notice to Proceed, the Contractors Representative shall immediately coordinate with the Engineering and Maintenance Division for instruction/briefing prior to implementation.
6	The site investigation reports are: ***Conduct of Site Inspection is strictly required.***
7.2	**The warranty against Structural Defects/Failures:** *In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:* **Fifteen (15) years.**
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the 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 _____ of the contract amount.
13	The amount of the advance payment is *shall not exceed 15% of the total contract price and schedule of payment].*
14	*[If allowed by the Procuring Entity, state:]* Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which operating and maintenance manuals are required is _____ *days upon completion].* The date by which "as built" drawings are required is _____ ***upon completion].***
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is _____.

Section VI. Specifications / Scope of Works

(shall be submitted with the Bid)

PROJECT : REHABILITATION OF CEZ FIRESTATION
LOCATION: CAVITE ECONOMIC ZONE, ROSARIO, CAVITE

A. GENERAL REQUIREMENTS

1. SCOPE

Furnish all materials, labor, equipment, tools and all other facilities for the satisfactory performance of all work necessary for the completion of the project in accordance with the plans.

2. MOBILIZATION / DEMOBILIZATION

Mobilization shall include transportation to the site of contractor's plant, materials, equipment, employees and furnishings and temporary facilities. Demobilization shall include dismantlement and removal from the site of contractor's plant, materials and equipment and all temporary facilities. Demobilization includes clean-up of the site after completion of the contract work.

3. TEMPORARY FACILITIES

- The contractor shall apply temporary connection for power and water.
- The Contractor shall provide a temporary shelter but shall not be permitted to erect temporary buildings or structures inside the zone.
- The contractor shall clear all the temporary installation before or upon completion of the work.

4. PROJECT BILLBOARD

- The contractor shall also install one (1) billboard as per COA circular no. 2013-004.

5. CONSTRUCTION SAFETY AND HEALTH

- The contractor shall submit appropriate Construction Safety and Health Program (CSHP) in accordance with DOLE D.O. no. 13, series of 1998. The proposed CSHP shall be approved by DOLE-BWC and shall submit a copy to the Authority.
- The contractor shall provide appropriate personal protective equipment shall not less than quantity indicated in POW (Program of Works). For General Construction Work, the required PPE for all workers shall be safety helmet, safety gloves and safety shoes.
- Provide proper enclosure and safety and warning signages around the construction site.

6. DOCUMENTATION REQUIREMENTS

- The contractor shall submit a complete as-built plan within 30 days upon reaching 95% completion of project

- The As-built plan shall be updated set of drawings (A1 and A3), precisely reflecting all elements of the structures and facilities as constructed. These drawings shall be prepared by the contractor and submitted to PEZA
- All notes, dimensions, material specifications, construction methods, and other relevant construction details shall align with the actual completed works

B. EARTHWORKS

1. EXCAVATION

Trenches or foundation pits for structures or structure footings shall be excavated to the lines and grades or elevations shown on the approved plan or as staked by the Engineer.

2. EMBANKMENT

Backfilling and embankment for foundation using the excavated materials.

3. GRAVEL BED

Use gravel, G-3/4 as bedding, properly compact using tampering rammer.

C. TERMITE CONTROL

Application of termite solution after excavation.

D. CONCRETE WORKS

- Use 4000 psi Ready-Mixed Concrete G-3/4 Pumpcrete Design at 28 days for suspended slab beams and column.
- Use 4000 psi Ready-Mixed Concrete G-3/4 ordinary at 28 days for Footing.
- Use 3000 psi Ready-Mixed Concrete G-3/4 ordinary at 28 days for concrete ledges and stair.
- Samples shall be taken in every concrete pouring and be subjected to compression test and shall be submitted to the CEZ engineer in charge.
- Reinforcing steel – Shall conform to the requirements of ASTM standards for grade 40. Ensure that reinforcement are clean, of the correct dimensions, and properly placed in accordance with approved reinforcement drawing.
- Random samples shall be taken and be subjected to rebar tensile / tension test and shall be submitted to CEZ engineer in charge. The requirement for tensile testing of reinforcing bars may be waived if the contractor provides certified mill test reports for each shipment of such reinforcement

E. FORMWORKS

- Forms for concrete shall be properly laid out and constructed to provide the specified cambers shown on the drawings.
- Ensure forms to be used or reused are clean and form oil is being applied installation and construction, and
- Stripping or removal of forms for all structural members shall be carried out following the standard curing period to ensure sufficient strength has been attained

F. MASONRY

- Cement – Portland cement shall conform to the requirements of item 700, Hydraulic cement. Type I cement shall be used unless otherwise provided for in special provision.
- Concrete Hollow Blocks – Check that all masonry units comply with the plans and specifications. Non-load bearing CHB, 150mm with a minimum strength of 150 psi and conform to ASTM standards.
- Mortar and Plastering – cement mortar filler and plastering (tool finished at both sides for CHB and rough plastered for column and beam) with a mixture of 1: 3 ratio (cement: sand).

G. STEEL WORKS

- Galvanized iron angle bar - shall conform to ASTM A 36 standards.
- Galvanized iron pipe schedule 40 – shall conform to ASTM A 120 standards.
- 6mm thick Steel plates for gusset plate and 16mm thick steel plate for truss/RC column connection shall conform to the ASTM Standard
- Use 16mm Ø HILTI Tension Bolt to be used for steel plate and RC columns connection
- Welding Electrodes - welding electrodes shall be E60xx series.
- Size and dimensions of steel components shall be in accordance with the approved plans

H. STAINLESS STEEL RAILINGS

- SS304 Stainless steel pipe shall be use for stair and balcony railings and shall conform to ASTM A 276 standards.
- Use stainless steel railing cup.
- Welding Electrodes - welding electrodes shall be E60xx series.
- Use deformed bars for railing dowels and shall conform to ASTM standard
- Size and dimensions of steel components shall be in accordance with the approved plans

I. PAINTING WORKS

1. Concrete and Masonry

- Apply concrete neutralizer to newly plastered masonry walls and concrete structural members prior to the application of any painting materials
- Used Skim coat for interior and exterior applications varying from 0.5-5mm in thickness to correct minor imperfections, corrects surface unevenness of concrete and plastered surfaces to achieve a smooth finish.
- Use flat latex primer and Semi-Gloss latex as final coating
- Paint color to be used shall be subjected for approval prior to application

2. Ceiling

- Apply fiber mesh tape to fiber cement board connection to cover ceiling termination.
- Apply drywall putty to correct uneven ceiling surface and on screw heads for a seamless finish.
- Use flat latex primer and Semi-Gloss latex as final coating
- Paint color to be used shall be subjected for approval prior to application

3. Steel and Wood

- Welded joints and connections shall be buffed properly to attain smooth surface free from excess welding flux.
- Use Quick Dry Enamel flat wall and Quick Dry Enamel paint for final coating for wood surfaces.
- Use Epoxy primer and Quick Dry Enamel paint for steel
- Use Epoxy primer and Silver Aluminum Paint for Repainting of existing perimeter fence in 3.12m in height.
- Paint color to be used shall be subjected for approval prior to application

J. <u>DOORS AND WINDOWS</u>

- Supply and installation of Solid Panel Type Door and Two-Door Solid Panel Type Door on 50mm x 150mm jamb with hardware and accessories lockset.
- Supply and installation of Flush door type on 50mm x 150mm jamb with hardware and accessories lockset for all toilet cubicles.
- Supply and Installation of 6mm Thk. Reflective Glass Sliding Window w/ Screen on Aluminum Frame Powder coated Finish, 6mm Thk. Reflective Glass Awning Window w/ Screen on Aluminum Frame Powder coated Finish, 6mm Thk. Reflective Glass Fixed/Awning Window w/ Screen on Aluminum Frame Powder coated Finish and 6mm Thk. Glass Fixed Window on Aluminum Frame Powder coated Finish
- Supply and installation of 17 sets of heavy duty door closer for Main Entrance, Office, Conference Room, Exits, T&B Main Entrance, Warehouses, electrical room, exits at balcony and sleeping quarters.
- All existing Doors and windows are subject for replacement and all its accessories including the door jamb.
- Size dimensions of door and windows shall be in accordance with the approved plans

K. <u>FINISHING WORKS</u>

- Plain cement plastered finished for floor, wall and structures.
- 800mm x 800mm Porcelain tiles for Hallways, Dining, Kitchen, Training Room, Locker, Office and Quarter's Area
- 600mm x 600mm Porcelain Floor Tiles for comfort room, unglazed tiles for floors and glazed tiles for walls with tile edge trim.
- 300 x 1500mm Wood Plank Floor Tiles for stairs with 2"x 3" Aluminum stair nosing
- 300 x 600 mm Outdoor Wall Tiles for Fire station façade.
- Used Rubberized Paint as final coating of parking, roof deck and warehouses.
- 20mm thk. Quartz finish for kitchen counter top and 600mm x 600mm Porcelain tiles wall finish.
- 600mm x 600mm Porcelain Floor Tiles at Flag pole platform
- Comb mortar in straight manner to allow air release ensuring 100% mortar coverage
- Spread tile grout mortar and apply pressure to fill joints evenly and uniformly, and
- Tiles, quartz and floor paint color and design shall be subjected for approval prior to installation

L. <u>CARPENTRY WORKS</u>

- Overhead and Base Cabinet as shown or as indicated in the approved drawings.

- Drywall Partition as shown or as indicated in the approved drawings
- Use 6mm thick fiber cement board for plain and dropped ceiling as indicated in the approved plans and drawings
- Use 10in x 10ft x 8mm PVC Ceiling Panel for the Fire truck parking and Conference room ceiling as indicated in the approved plans and drawings
- Provide 600mm x 600mm prefabricated ceiling manhole cover at electrical room, conference room, parking area and hallway near stairs at second floor
- Use 0.5mm thick metal furring and carrying channel for the ceiling framing and support. Refer to the approved plans and drawings for the spacing of ceiling framing, and
- PVC Ceiling panel color and design shall be subjected for approval prior to installation

M. <u>ROOFING</u>

- Use 0.50mm thick pre-painted durabib roofing metal sheets for roof panels with 15mm thick PE foam for roof insulation
- Use 2 ½" tekscrew for the roof and C-purlin connection
- Roof sealant shall be applied on all connection
- Use 0.50mm thick 304 stainless steel gutter, 0.50mm thick 304 stainless steel end flashing and 0.50mm thick pre-painted wall flashing
- Use 2"x6"x1.5mm thick fascia purlins for roof edges

N. <u>WATERPROOFING</u>

- Primer shall be of asphalt cold applied, free from water and other foreign matters, and shall conform to the specifications requirement defined in ASTM D 41, Standard Specification for Asphalt Primer used in Waterproofing.
- Remove any dirt, dust, grease or loose material. Use a wire brush, broom or pressure washer for thorough cleaning.
- Use Europrimer Bitumen or approved equal that is compatible with the waterproofing membrane. Then use a roller or brush to apply the primer evenly to the surface. Coat the entire surface.
- Application of Waterproofing membrane as indicated in the approved plans.
- Waterproofing Membrane is heated using a torch burner gas or hot air gun and placed on the surface and adhesion is ensure by applying pressure on it with a roller. Ensure that the edges and joints are well adhered.
- Position the membrane sheet staggered, avoiding to create any overlaps against the slope and the drains.
- The joints, both side and head must be respectively overlapped by 10 and 15 cm.
- Carefully check the membrane for any gaps, bubbles or weak spots. Repair if necessary.
- Provide concrete cement topping of at least 50 mm thick on the membrane mix with sahara water proofing cement. Concrete cement topping should be class "A"
- Use Boysen Plexibond as final coating and rubberized floor paint as its floor finish
- The contractor shall submit catalogues and manufacturer's specification and/or sample to the project engineer/designer to be used, which shall be subjected for approval prior to application

O. PLUMBING/SANITARY

- Plumbing fixtures are POZZI brand or approved equal and subject for approval.
- All existing plumbing fixtures accessories to be replaced
- Use one-piece elongated toilet with skirted trapway, dual-flush water closet
- Use American Standard Stainless Steel Bidet or approved equal and subject for approval.
- Use 415x430x775mm, white, glossy Lavatory Full-Pedestal with deck mounted lavatory faucet
- Use white, wall mount top inlet with spreader urinal with standard flashing
- Use 790x480x200x0.8mm double bowl Stainless Steel 304 Kitchen Sink with deck mounted stainless steel goose neck faucet
- Use 810x510x200x0.8mm single bowl Stainless Steel 304 Kitchen Sink with deck mounted stainless steel goose neck faucet at roof deck.
- Sewer pipes shall be polyvinyl chloride (PVC) series 1000, Neltex brand or approved equal.
- Replacement of existing pipes of water line and sewer line.
- Installation of Four (4) sets of 1.0m H x 0.60m W x 6mm Thk. Facial mirror T&B ground floor & second floor
- Installation of One (1) set of 1.0m H x 2.0m W x 6mm Thk. Facial Mirror at T&B ground floor
- Installation of five (5) sets of stainless jumbo roll tissue dispenser, five (5) sets liquid soap holder, and four (4) sets of stainless steel hanger – 4 hooks for comfort room accessories.
- The contractor shall submit catalogues and manufacturer's specification and/or sample to the project engineer/designer before any plumbing fixtures is to be ordered.

P. SEWER LINE/WATER LINE

- Sewer pipes shall be polyvinyl chloride (PVC) series 1000, Neltex brand or approved equal conforming to ASTM D2729
- Water lines are polypropylene random (PPR) pipe and shall conform to PN-20 standard
- Existing sewer and water lines shall be replaced with new pipes and shall be tapped or connected to the existing septic tank.
- Sizes are indicated in the plans and drawings.

Q. DOWNSPOUT/STORM DRAINAGE

- Sewer pipes shall be polyvinyl chloride (PVC) series 1000, Neltex brand or approved equal conforming to ASTM D2729
- Sizes are indicated in the plans and drawings.

R. CATCH BASIN

- Catch basins shall use 100mm non load bearing concrete hollow blocks, class B cement mortar ratio with a proportioning of 1:3 such that 1-part cement and 3 parts sand

- Catch basins shall be cement plastered with a minimum of 12mm thickness
- Reinforced concrete cover with frame shall be used for catch basin cover as indicated in the plans, and
- Sizes are indicated in the plans and drawings.

S. ELECTRICAL

- All electrical works shall be in accordance with the plans and specifications, the latest edition of Philippine Electrical Code (PEC).
- All materials shall be new and shall conform to the given specifications as indicated on the plans. All materials shall be standard products of reputable manufacturers and shall bear the name of the manufacturer.
- All materials shall be subject to the approval of the Engineer. This approval shall not relieve the contractor of the responsibility of inspecting such materials for defects or non-conformance with the given specifications. Appropriate samples shall be submitted prior to the purchase and installation of specific materials.
- All wires shall be copper, soft-drawn and annealed and shall be 98% conductivity with minimum size of 3.5 sq.mm for feeders and grounding wire, shall be smooth and true of a cylindrical form and variation shall be within 1% of the actual size called for.
- All wires for power and lighting system shall be plastic insulated for 600 Volts working pressure type “THHN” unless otherwise noted on plans or specified.
- Installation of all wires shall be carried out in such a manner that keep tension forces and stress on cables to minimum and to prevent stretching. All installed wires shall be replaced if insulations were damaged. All wirings shall be continuous from outlet without splices, extend wire sizing for the entire length of a circuit unless otherwise noted. An insulated equipment grounding conductor shall be provided in all branch circuits including lighting and power circuits.
- Installation of new feeder wires for lighting system, outlets, ventilation system, and ACU’s including the grounding up to circuit branches, chipping of walls for embedding of wires and conduits and restoration of concrete.
- All feeder and branch circuits shall be installed as indicated on plans; branch circuit homerun wires shall be installed in individual.
- Color identification of each phase shall be color-coded insulation. Equipment grounding conductor shall be green, while white shall be identified to neutral conductor. The color of the ungrounded conductors in different voltage systems shall be as follows:

230 Volt, 3-Phase	Phase A – Red
	Phase B – Yellow
	Phase C – Blue
	Ground - Green
230 Volt, 2-Phase	Phase A – Red

Phase B – Yellow
Ground – Green

- Rewiring of Main Feeder wires from Transformer (Load Side), including the wire running through the Kilowatt-Hour Electric Meter up to the Main Distribution Panelboard (MDP).
- Supply and installation of roughing-ins which includes conduits, fittings, lighting, power and other electrical service equipment unless indicated in the plans.
- All conduit shall Polyvinyl Chloride Conduit (PVC) Pipe for indoor wiring, while Rigid Steel Conduit (RSC) for outdoor wiring with minimum size of 20mm diameter.
- All conduit shall be concealed unless specifically shown, or noted otherwise. Exposed conduit runs shall be installed parallel to or perpendicular with the building line.
- Supply and installation of lighting fixtures, accessories and supports.
- Installation of new light switches, convenience outlets, push buttons switches and orbit fan switches.
- Installation of sixteen (16) sets of 100W LED Floodlight (Daylight) and three (3 sets) of 50W LED Floodlight (Daylight) as indicated on the plans.
- Installation of seven (7) sets 100W Solar LED Floodlight (Daylight) with galvanized light post properly mount on suitable and stable foundations, equipped with anchor bolts. Shall be adjustable for angle orientation and mounting positioning.
- Installation of nine (9) sets of 38W Ceiling Mounted Exhaust Fan 12" and five (5) sets of 26W Ceiling Mounted Exhaust Fan 8" as indicated on the plans.
- Installation of five (5) sets of 65W Orbit Fan 18" (White Color) and two (2) sets of 65W Wall Fan 16" (White Color) as indicated on the plans.
- Installation of 125AT enclosed circuit breaker at concrete pedestal.
- Installation of two (2) sets of 30AT enclosed circuit breaker intended for the 3TR Floor Mounted Split Type ACU's.
- Installation of new sets of Molded Case Circuit Breakers (MCCB) intended for existing Main Distribution Panelboard (MDP) consisting of thirteen (13) sets in total.
- Installation of two Sub-Panel Boards namely PP-2F with 8 branches circuit and PP-FL with 6 branches circuit.
- All circuit breakers shall be bolt-on type and have voltage, current and interrupting rating indicated. Plug-in circuit breakers are not acceptable.
- All circuit breakers or disconnect switches that are not available in the specified ratings, the next highest standard rating shall be used. Checked the designed rating of circuit breakers and verify the specified feeder and branch circuit conductors before installation and termination.
- Panelboard shall be properly grounded in accordance with the Philippine Electrical Code (PEC). Directories shall be installed to indicate load served by each circuit. Provide all necessary cable glands, cable ties, cable lugs and accessories for cable termination.
- Junction Boxes of code gauge 16 (minimum) steel galvanized shall be provided as indicated or as required for facilitating the pulling of wires and cables.

- Verify electrical drawings for lighting fixtures, convenience outlets and other wiring devices including exact location, ratings of equipment and mounting heights with the Project in Charge or Engineer or any of his representatives and changes shall be made accordingly.
- Complete Testing and Commissioning Works (Continuity Testing/Loop Checking, Insulation Resistance Testing Voltage Testing, and Phase Sequence Testing) of the whole electrical system. Shall submit written copies of all test results validated by qualified electrical practitioner.
  - Conduct Continuity Testing/Loop Checking for the verification of 3 Phase & 2 Phase Lines from panelboards/transformer up to the equipment.
  - Conduct Insulation Resistance Testing for the main and branch cables/wires.
  - Conduct Voltage Testing Line to Line, Line to Ground and Line to Neutral.
  - Conduct Phase Sequence Testing to ensure proper operation of equipment.
- Retrieval of all electrical service equipment, electrical wirings, fixtures and other usable materials should be surrendered to PEZA property custodian.
- All works shall be executed under the direct supervision of a duly Registered Professional Electrical Engineer/Registered Electrical Engineer/Registered Master Electrician.
- After completion of the entire installation, the contractor shall pay and obtain for the Certificate of Final Electrical Inspection (CFEI) from the authorities having jurisdiction and submit the same to the Project in Charge/Engineer.

T. <u>MECHANICAL</u>

- Installation of Brand new 2 units 3TR Full DC Inverter Type ACU's for office and conference
- Include suction line, discharge line w/ oversize insulation, control wire, feeder line and drain lines.
- Consumables: indoor bracket, outdoor bracket, expansion bolt, expansion shield, tox, drain lines, polyethylene tape, PVC pipes, neltex, Teflon, angle bars, washers, long and short screws, nitrogen flushing, elbows, copper elbow, cement, electrical tape, flexible hose, sealing gum, circuit breakers NEMA 3R 30A and additional freon and other contingency expenses.
- Shielded wire.
- Darin line with wall chipping to floor chipping.
- Service cost, test run and commissioning.

SPECIFICATION: Full DC Inverter Type ACU's, single phase, blue pins evaporator and Condenser, R-410A refrigerant

WARRANTY FOR BRANDNEW ACU's:

12 years for compressors
3 years for PCB's
1 year for parts and service.

U. ELECTRONICS

Fire Detection and Alarm System

- The specification includes the furnishing of labor, tools and materials, installation, connection and testing of equipment necessary for the complete, usable and intelligent reporting fire alarm system. It shall include, but not be limited to, Fire Alarm Control Panel (FACP), alarm initiating devices (detectors, manual fire alarm station), alarm notification appliances (sounder strobe), and wiring as shown on the drawings and specified herein.

  a.) **Fire Alarm Control Panel (FACP)**: 4-Zone Conventional Class B, Operating Voltage: 24V VDC Primary AC: 220-240 V-AC at 60Hz. System panel shall be neat, compact, factory wires assembly containing all components and equipment required to provide all specified operating and supervisory functions of the system. Panel cabinet shall be finish and shall have prominent rigid plastic or metal identification plates for all lamps, switches and zones.

  b.) **Heat Detectors with base**: Simple and reliable without mechanical switches with Operating Voltage of 24 VDC and must be compatible with FACP model. Detector shall be sealed and automatically resetting type which will operate when ambient air temperature reaches detector setting or rate of temperature rise.

  c.) **Smoke Detectors with base**: It shall be photoelectric type with base for detection of abnormal smoke densities by the photoelectric principle with Operating Voltage of 24 V DC and must be compatible with FACP model. Each detector shall contain an alarm lamp which shall illuminate when the detector is activated into an alarm condition.

  d.) **Fire Alarm Notification Devices (Sounder Strobe)**: Surface mounted Strobe sounder shall operate at **24V DC type** and produce a sound output rating of at least **80dBA** and operate with a luminous intensity of 110 candelas (cd)

  e.) **Manual Fire Alarm Stations**: **24V DC** Non-coded type with mechanical reset features manual pull station shall be surface mounted or semi-flush style and shall be installed in cast surface mounted boxes. Exterior mounted stations shall be weatherproof. Each manual station shall be provided with key switch/reset control to abort alarm conditions.

  f.) **Industrial alarm warning light (220V) and Manual Alarm Switch**: Operate at 220V able to produce output sound of at least **180 decibel**. Manual fire alarm switch must have features to abort alarm conditions.

- The fire alarm system shall comply with requirements of NFPA Standard 72 or Philippine Electrical Code/Electronics and Communication Code except as modified and supplemented by this specification.
- Wiring: All wiring shall be new and in accordance with the local, state and national codes (e.g., NEC Article 760) and as recommended by the manufacturer of the fire

alarm system. Wire for 220V circuits shall be a minimum of 3.5 mm2. Wire for low voltage DC circuits shall be not less than 16 AWG.

- All items of instrument shall be completed in all respects and any instrument not covered in the specification but essential for proper installation, operation and maintenance of the instrument shall be included.
- Installation shall be in accordance with NEC, NFPA 72, local and state codes, and as recommended by the major equipment manufacturer.
- All conduit, junction boxes, conduit supports and hangers shall be concealed in finished areas unless otherwise specified.
- Manual fire alarm stations shall be suitable for surface mounting or semi-flush mounting and shall be installed at 1400mm above the finished floor.
- Instruction shall be provided as required for operating the system. Hands-on demonstrations of the operation of all system components and the entire system including program changes and functions shall be provided.
- The service of a competent, factory-trained engineer or technician shall be provided to technically supervise and participate during all of the adjustments and tests for the system. All testing shall be in accordance with NFPA 72.

V. OTHERS

- Removal/Demolition and Hauling Works. Proper removal shall be undertaken, particularly for materials that are considered as salvageable/recoverable materials and shall be turn-over to PEZA.
- Furniture and Fit-outs
  - Supply and installation of 7 sets of 2-Door Wardrobe with Drawer as shown or as indicated in the approved drawings.
  - Supply and installation of 3 sets of Steel Cabinet with adjustable shelves as shown or as indicated in the approved drawings.
  - Supply and installation of 1 set of Lobby Counter with Chair as shown or as indicated in the approved drawings.
  - Supply and installation of 12 sets of Heavy Duty Single Metal Bedframe for Mattress 36"x75"
  - Supply and installation of 1 set of Wooden Dining Table - 6 Seaters with chairs as shown or as indicated in the approved drawings.
  - Supply and installation of 5 sets of Firefighter locker - 2 door locker (36"Lx18"WX72"H)
  - Supply and installation of 1 set of Bar Stool as shown or as indicated in the approved drawings.
  - Supply and installation of 1 set of Conference Table (3.20mW x 1.20mD x .75m HT) - 10 Seaters as shown or as indicated in the approved drawings.
  - Supply and installation of 10 sets of Conference Chair with Armrest & foam padded, star base in leatherette finish as shown or as indicated in the approved drawings.
  - Supply and installation of Korean Blinds
    - 1.3m x 1.25m – 7 sets
    - 3.7m x 1.25m - 7 sets
    - 2.5m x 1.25m - 1 set

- The contractor shall submit catalogues and manufacturer's specification and/or sample to the project engineer/designer for approval.

- Stainless letters as shown or as indicated in the approved drawings.
- Retrofitting Works as shown or as indicated in the approved drawings.
- Removal/Cutting of trees includes the three (3) units of Mango trees and one (1) unit of Narra tree

W. <u>DURATION OF PROJECT</u>

- The completion of the project shall be a period of One Hundred Eighty (180) calendar days which shall commence three (3) days from the date of receipt of Notice to Proceed (NTP)

I hereby certify to comply and deliver all the above requirements:

Signature over Printed Name of Representative : _____
Company/Bidder : _____
Address : _____
Tel No./E-mail Address : _____
Date : _____

TERMS OF REFERENCE

(shall be submitted with the Bid)

BACKGROUND:

The PEZA CEZ is to engage a qualified contractor for the **REHABILITATION OF CEZ FIRESTATION** at the Cavite Economic Zone (CEZITB 2024-10-009).

1. CONTRACT DESCRIPTION

Project Name	**REHABILITATION OF CEZ FIRESTATION**
Approved Budget for the Contract (ABC)	**₱13,930,588.25**
Location	**Cavite Economic Zone**
Project In-charge	**Engr. Renzel G. Abellanosa**, **Civil Engr.** Engineering and Maintenance Division (EMD)

2. OBJECTIVE OF THE TERMS OF REFERENCE (TOR)

2.1. To provide a piece of background information regarding the preparation and submission of bid proposal to the PEZA-CEZ;

2.2. To provide a piece of background information regarding the proposed Project which should be handled at the lowest possible cost, acceptable quality and performance, and in the shortest possible time the bidder has to offer;

2.3. To outline and summarize the "Scope of Work" of the Contractor that has to be performed under the terms of its Contract with the PEZA-CEZ

2.4. To provide penalties in case of breach of the Contractor's obligations

3. ROLE OF THE CONTRACTOR

3.1. The Contractor shall supply labor, tools, materials, and equipment necessary for the project. In this regard, the Contractor or the key personnel to be assigned must have professional experience compatible with the undertaking as stipulated in ITB Clause 10.4 of the Bid Data Sheet.

3.2. The Contractor at all times should refer to the Engineering and Maintenance Division thru **Engr. Renzel G. Abellanosa** regarding corrections, plans and specifications, and quality control requirements of the Project;

3.3. The Contractor shall assign to its designated project engineer to prepare daily construction logbook.

3.4. The Contractor shall also implement the construction activities to complete the Project following the approved construction drawings and specifications and the scope of work as specified in the Contract;

3.5. Construction Phase should be completed within forty-five (45) calendar days which shall commence three (3) days from the date of receipt of Notice to Proceed.

4. GENERAL CONDITIONS

4.1. Designate one (1) Project Engineer who shall work full time during the Contract's construction period/duration. He shall be in charge of the construction work and is expected to perform the following:

a. Document, schedule, oversee and monitor the day-to-day construction works.
b. Coordinate, address, and resolve all concern/s of nearby buildings and structures relative to the construction and related services required.
c. Keep close coordination with the EMD during project implementation and submit a progress report as required.

4.2. Construction foreman, skilled workers and enough construction personnel should be deployed in the construction site during the implementation of the project.

5. PROJECT IMPLEMENTATION/CONSTRUCTION PHASE

5.1. ENGINEERING SUPPORT SERVICES.
The Contractor shall carry out and complete all items of work following the approved plans and specifications. The work shall be in accordance with approved samples. Materials and articles installed or used without such approval shall be at the risk of subsequent rejection.
The contractor shall request a site inspection and approval from the PEZA Project Engineer or authorized representative before any concrete pouring activity shall be made.

5.2. WORKER'S BARRACKS
The contractor shall provide offsite accommodation/barracks for workers at his own expense.

5.3. PROGRESS REPORTS.
The Contractor shall prepare weekly and monthly accomplishment reports supported with progress photographs and S-Curves to monitor actual progress to be submitted to the EMD which shall be used as basis for progress billing.

5.4. WATER AND ELECTRICITY.
The Contractor shall install a temporary power and water connection in the construction sites and shall shoulder and pay the actual amount of water and electricity bills based on their usage at the prevailing rate. During concrete pouring, the contractor shall provide own water supply.

5.5. SANITARY, SAFETY AND HEALTH
- The Contractor shall provide portable toilet and other approved equivalent for proper hygiene and sanitation.

- Complete basic Personal Protective Equipment should be provided by the contractor to all its personnel in the construction site.
- Health and safety protocols should be implemented to minimize the risk of spreading transmissible diseases.

5.6. TURN-OVER OF PROJECT.
The Contractor shall adequately address and comply with the final punchlist issued by the EMD before the Turn-over and Acceptance of the completed Project.

6. PROVISIONS FOR STORAGE & MATERIAL HANDLING

6.1. Area for temporary facilities, storage, and temporary staging area for construction materials will be designated by the procuring entity. It shall be kept neat and clean at all times. Any damage to that or the surrounding area arising from any accident shall be repaired and/or restored to its original condition. Likewise, extra care shall be taken in the storage of hazardous chemicals and/or equipment to avoid accidents, explosions and/or fires.

6.2. Provisions for securing and safekeeping of stored materials, tools, and equipment during the construction project shall be for the Contractor's account

6.3. When called for by PEZA, the Contractor shall furnish, for approval, full information and satisfactory evidence as to the kind and quality of materials or articles to be incorporated in the work. The Contractor shall furnish, for PEZA's approval, all samples when so directed.

7. CLEARING OF SITE

The Contractor shall clean the whole area by removing debris, discards, concrete laitance and shall leave the entire premises free from rubbish caused by their work to the satisfaction of the CEZ EMD at no extra cost.

Regular disposal of construction debris, dismantled unusable materials is required to prevent accumulation.

8. WARRANTIES OF THE CONTRACTOR

8.1. The Contractor warrants that it shall conform strictly to the terms and conditions of these Terms of Reference.

8.2. The Contractor warrants represent and undertake the service's reliability and that their workforce complements are hardworking, qualified/reliable, and dedicated to doing the service required to the satisfaction of the procuring entity. It shall employ well-behaved and honest employees.

8.3. The Contractor's personnel shall take all necessary precautions for the safety of all persons and properties at or near their area of work and shall comply with all the standard and established safety regulations, rules and practices.

8.4. The Contractor shall be liable for any loss, damage, or injury due directly through its personnel's fault or negligence. It shall assume responsibility thereof, and the Contractor shall be liable from any liability arising from that place.

9. TERMS OF PAYMENT

9.1. The Contractor, upon a written request, may be granted an advance payment in an amount not exceeding fifteen percent (15%) of the total contract price. The advance payment shall be made only upon the submission to and acceptance by the procuring entity of an irrevocable standby letter of credit of equivalent value from a commercial bank, a bank guarantee or a surety bond callable upon demand, issued by a surety or insurance company duly licensed by the Insurance Commission and confirmed by the procuring entity.

9.2. The Contractor shall collect payment on progress billings based on the percentage of work accomplished, within a reasonable time from submission of all the required documents i.e. statement work accomplished (SWA) or progress billing, subject to the applicable tax rules and ten percent (10%) retention fund.

9.3. The retention fund shall be released only upon issuing Certification of Final Acceptance issued by the Head of the Procuring Entity and submission by Contractor of Post-Construction Documentation.

9.4. Payments shall be made within a reasonable time from the submission of the required documents based on existing applicable laws.

9.5. The percentage of completion of work shall be subject to review and evaluation by the CEZ EMD.

10. PRE-TERMINATION OF CONTRACT

10.1. The Contract for the **Asphalt Overlay along South Avenue – 1st Phase at the Cavite Economic Zone** may be pre-terminated by the PEZA CEZ upon notice of any violation of the Contract's terms. In the case of pre-termination, the Contractor shall be notified of such termination.

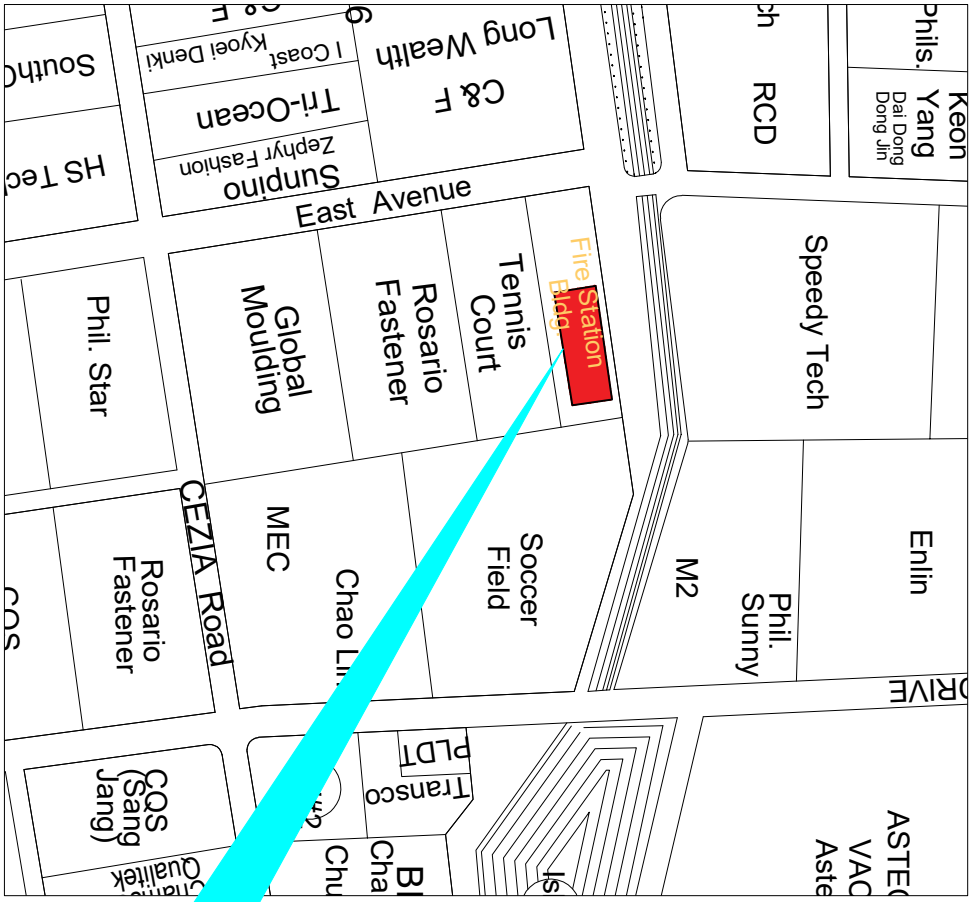
10.2. In the pre-termination case, the Contractor shall be liable to additional liquidated damages which shall be at least equal to one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay as provided in Sec 68 of the RIRR of RA9184 and forfeiture of the Performance Security.

10.3. The PEZA-CEZ shall have the right to blacklist the Contractor in case of pre-termination.

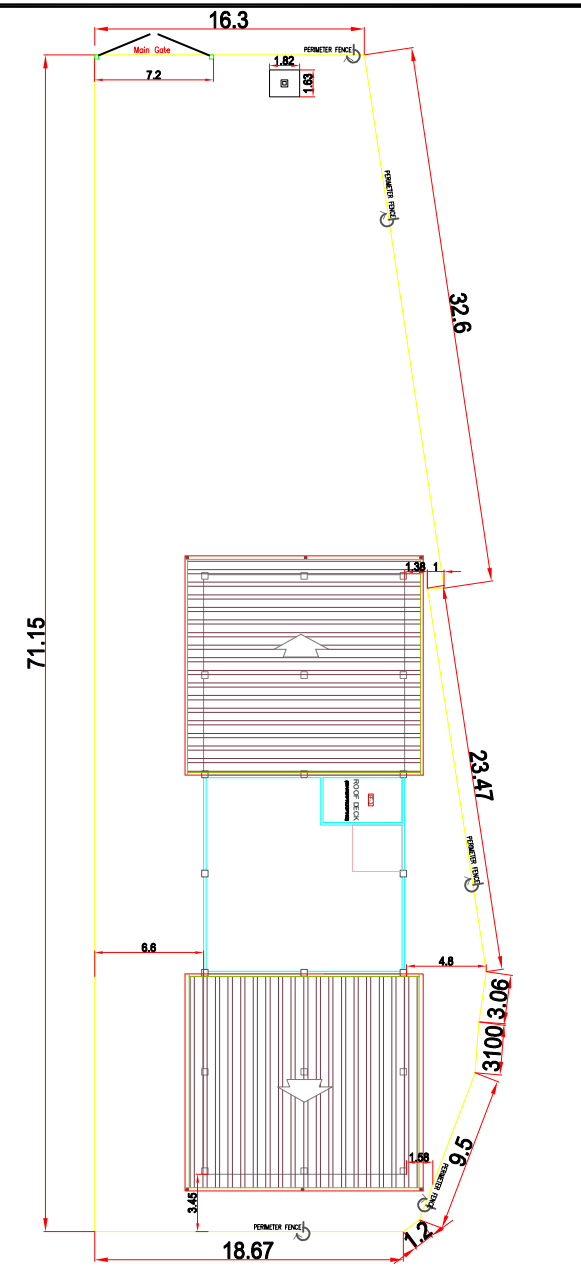
Signature over Printed Name of Representative : _____
Company/Bidder : _____
Address : _____
Tel No./E-mail Address : _____
Date : _____

Section VII. Drawings

[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

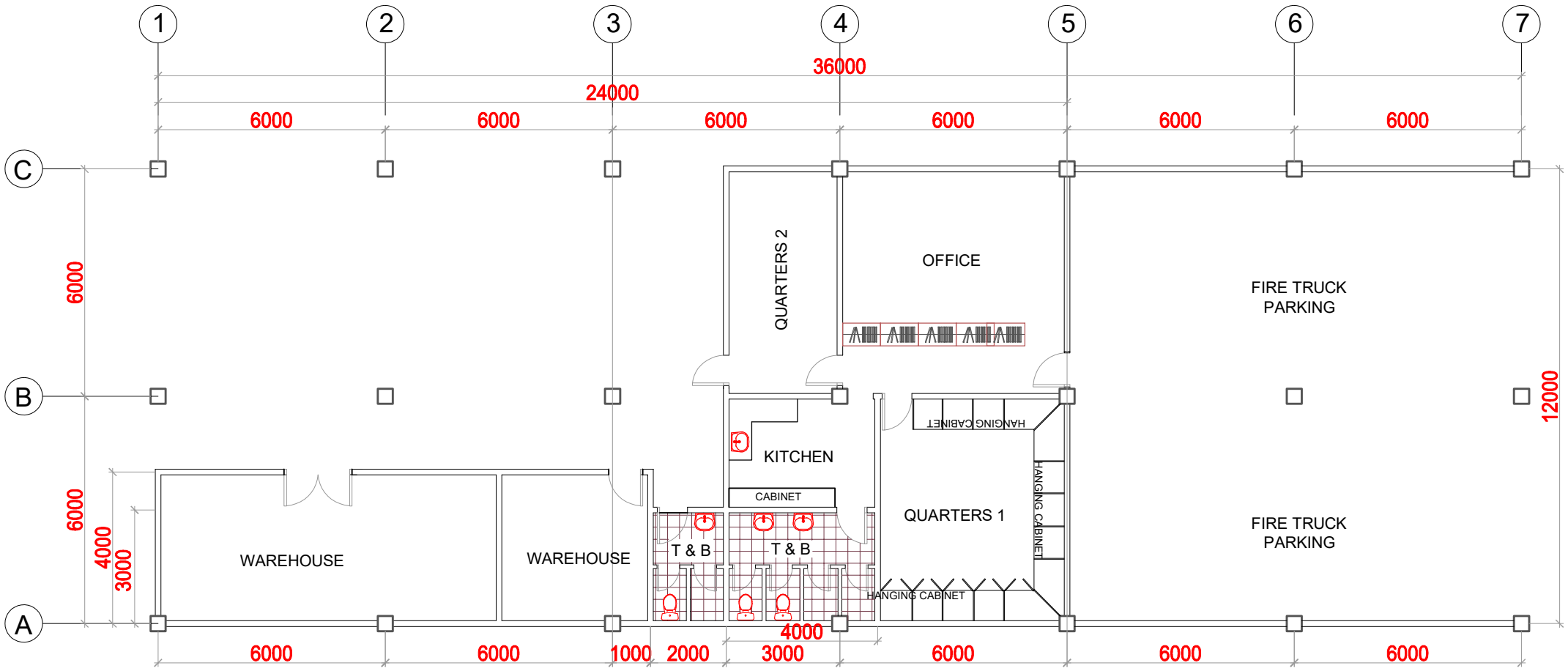


1 A–00 LOCATION PLAN



2 A–00 SITE DEVELOPMENT PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-00

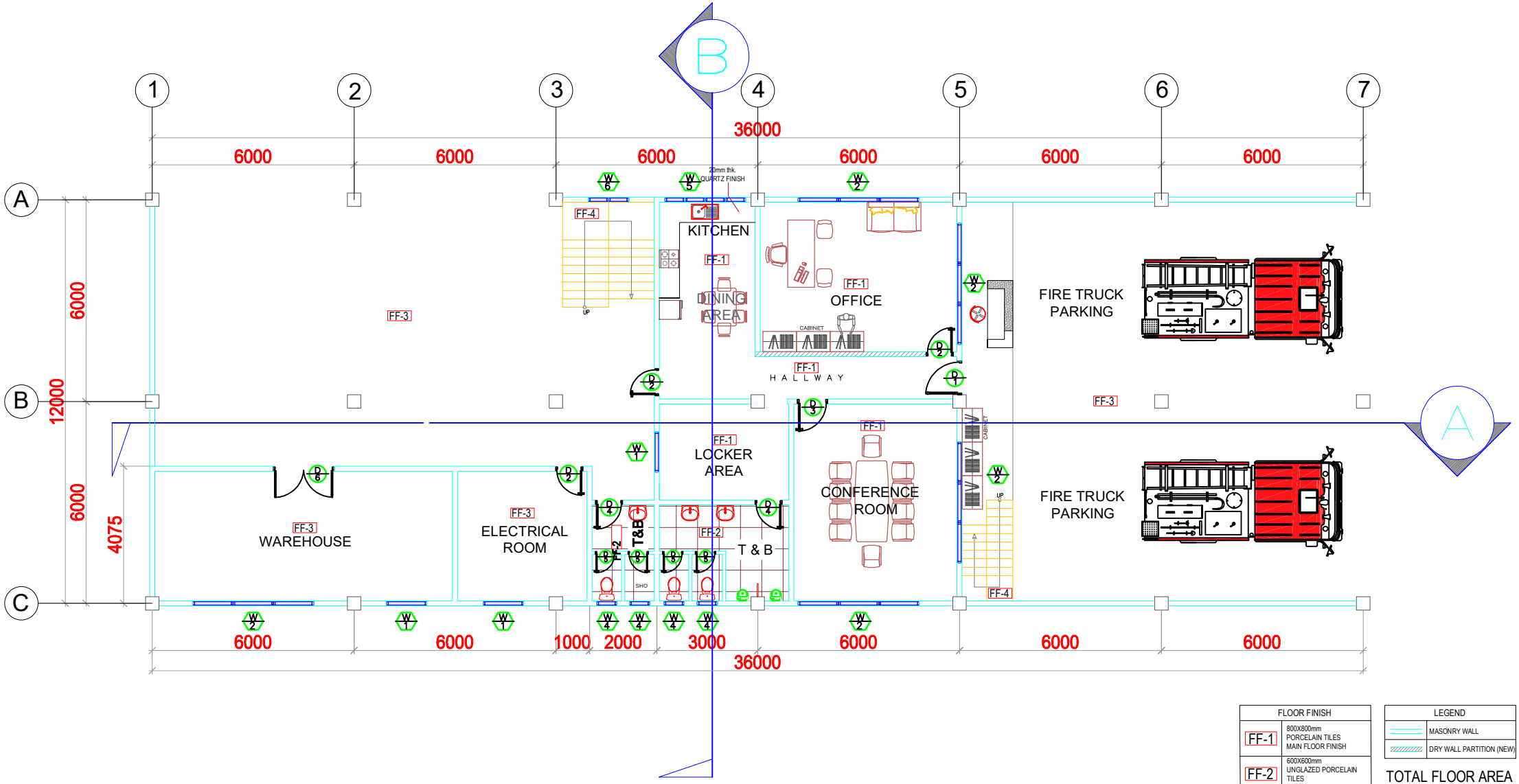


EXISTING

GROUND FLOOR PLAN

1 / A–01

	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
	REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-01



FLOOR FINISH	
FF-1	800X800mm PORCELAIN TILES MAIN FLOOR FINISH
FF-2	600X600mm UNGLAZED PORCELAIN TILES Location: T&B
FF-3	RUBBERIZED FLOOR PAINT Location: Parking Area
FF-4	30x150cm WOOD PLANK FLOOR TILE WITH ALUMINUM STAIR NOSING Location: Stair

LEGEND	
	MASONRY WALL
	DRY WALL PARTITION (NEW)

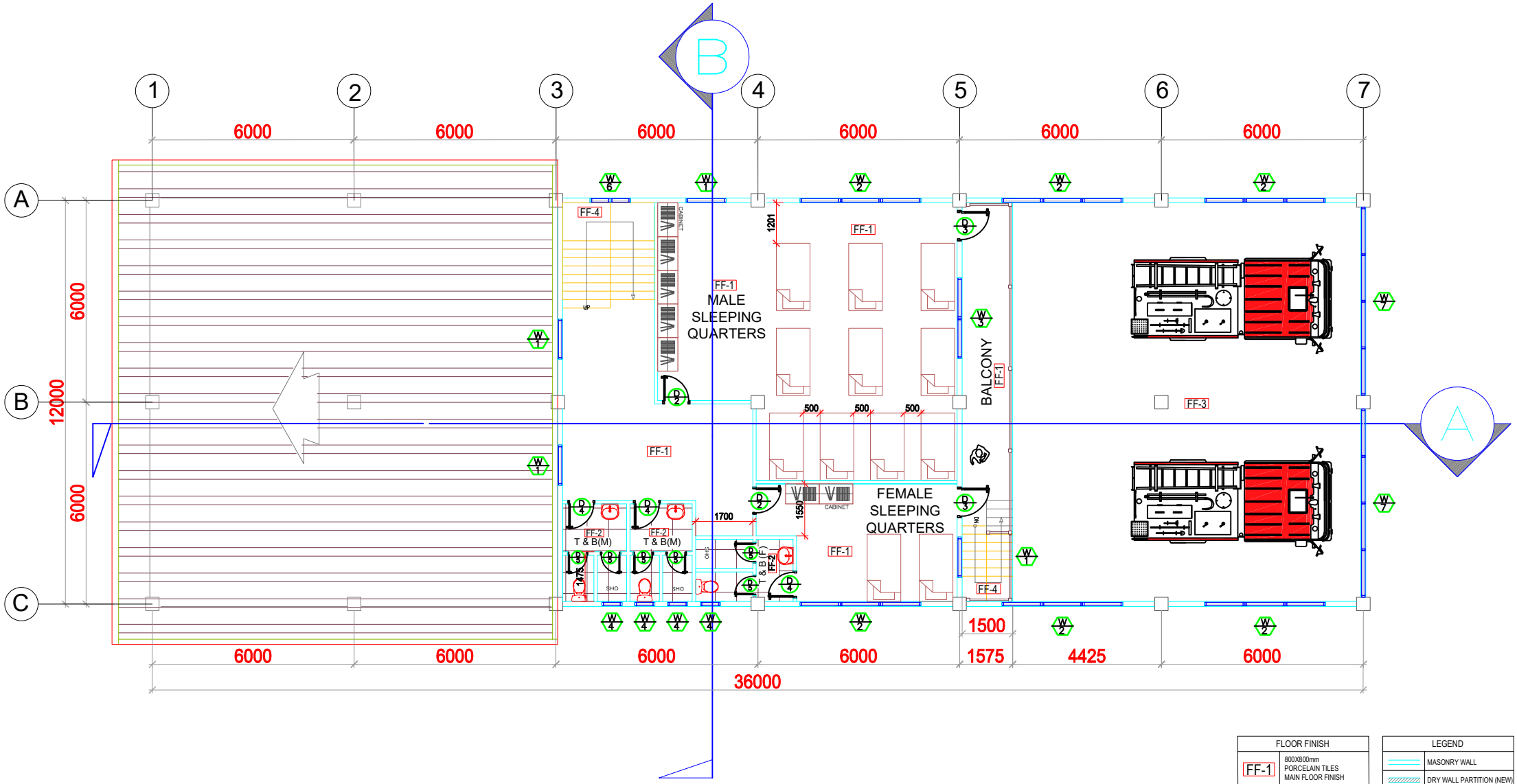
TOTAL FLOOR AREA = 738.9 SQ.M.

PROPOSED

GROUND FLOOR PLAN

1 / A–02

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-02



PROPOSED

SECOND FLOOR PLAN

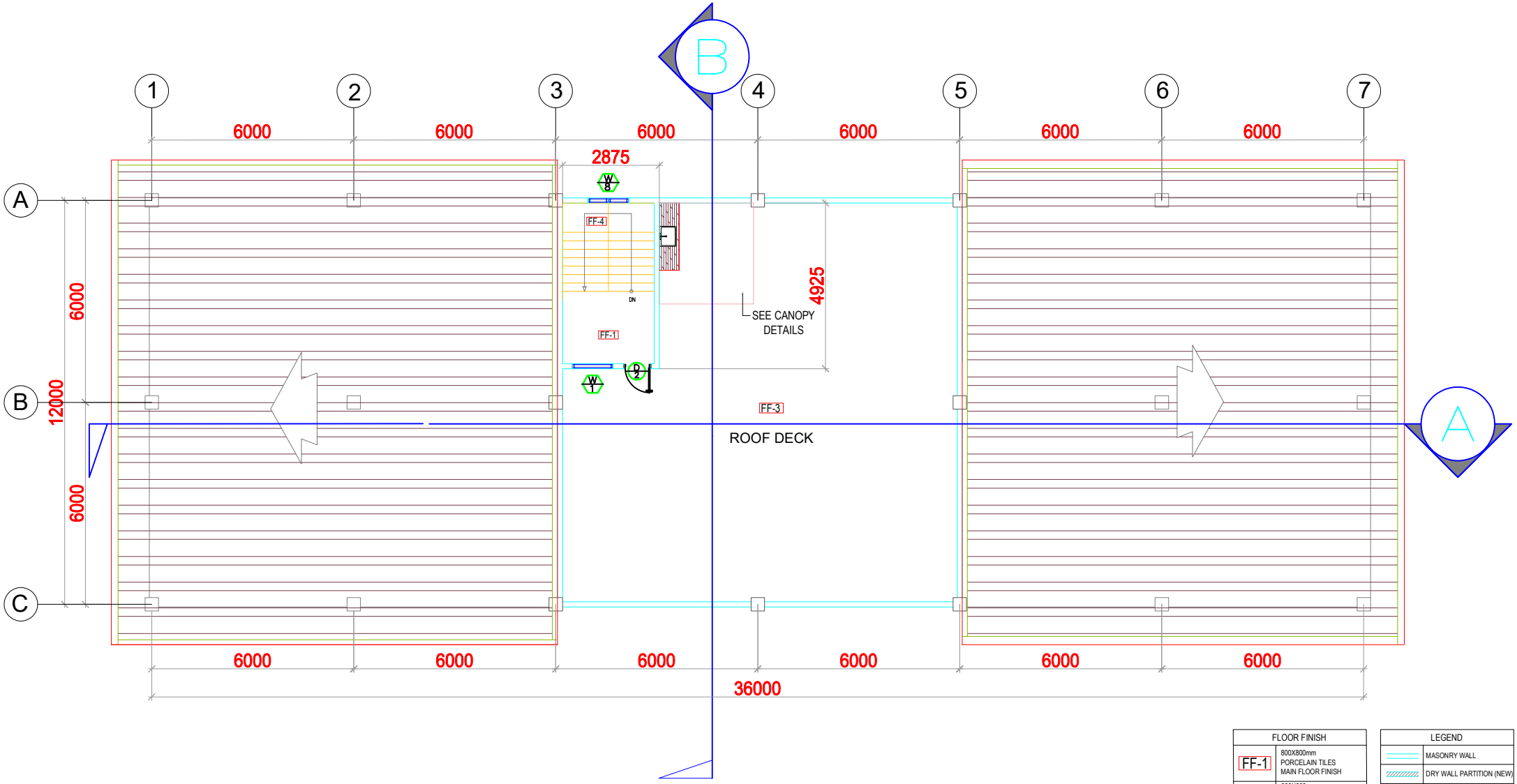
1 / A–03

FLOOR FINISH	
FF-1	800X800mm PORCELAIN TILES MAIN FLOOR FINISH
FF-2	600X600mm UNGLAZED PORCELAIN TILES Location: T&B
FF-3	RUBBERIZED FLOOR PAINT Location: Parking Area
FF-4	30x150cm WOOD PLANK FLOOR TILE WITH ALUMINUM STAIR NOSING Location: Stair

LEGEND	
	MASONRY WALL
	DRY WALL PARTITION (NEW)

TOTAL FLOOR AREA = 738.9 SQ.M.

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-03



PROPOSED

ROOF DECK PLAN

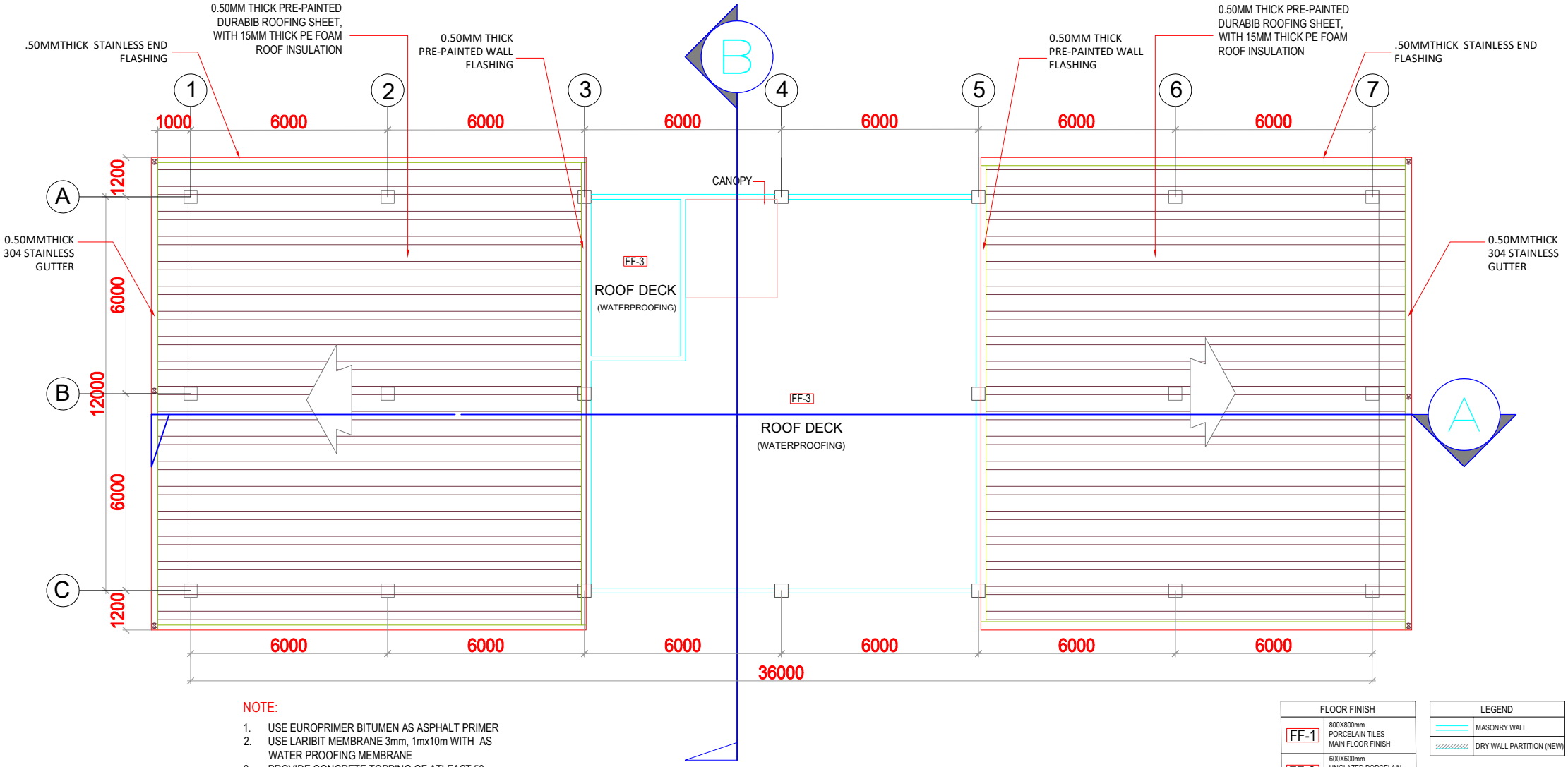
1 / A–04

FLOOR FINISH	
FF-1	800X800mm PORCELAIN TILES MAIN FLOOR FINISH
FF-2	600X600mm UNGLAZED PORCELAIN TILES Location: T&B
FF-3	RUBBERIZED FLOOR PAINT Location: Parking Area
FF-4	30x150cm WOOD PLANK FLOOR TILE WITH ALUMINUM STAIR NOSING Location: Stair

LEGEND	
	MASONRY WALL
	DRY WALL PARTITION (NEW)

TOTAL FLOOR AREA = 738.9 SQ.M.

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-04



NOTE:

1. USE EUROPRIMER BITUMEN AS ASPHALT PRIMER
2. USE LARIBIT MEMBRANE 3mm, 1mx10m WITH AS WATER PROOFING MEMBRANE
3. PROVIDE CONCRETE TOPPING OF ATLEAST 50mm THICKMIX WITH SAHARA WATER PROOFING CEMENT ON THE MEMBRANE WITH 9mm PEA GRAVEL
4. USE BOYSEN PLEXIBOND AS FINAL COATING
5. USE RUBBERIZED FLOOR PAINT AS FLOOR FINISH

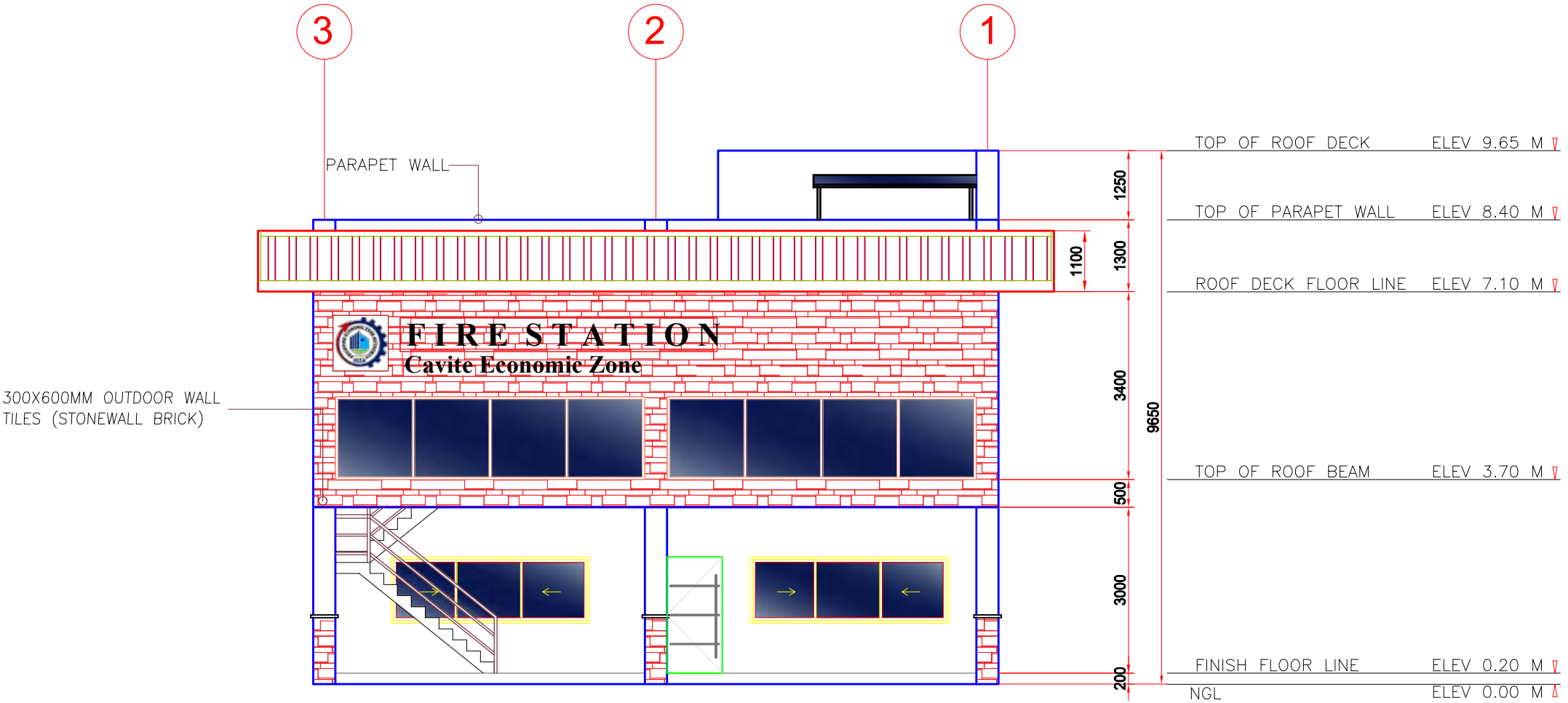
1 / A–05 ROOF PLAN/UPPER ROOF DECK PLAN

FLOOR FINISH	
FF-1	800X800mm PORCELAIN TILES MAIN FLOOR FINISH
FF-2	600X600mm UNGLAZED PORCELAIN TILES Location: T&B
FF-3	RUBBERIZED FLOOR PAINT Location: Parking Area
FF-4	30x150cm WOOD PLANK FLOOR TILE WITH ALUMINUM STAIR NOSING Location: Stair

LEGEND	
	MASONRY WALL
	DRY WALL PARTITION (NEW)

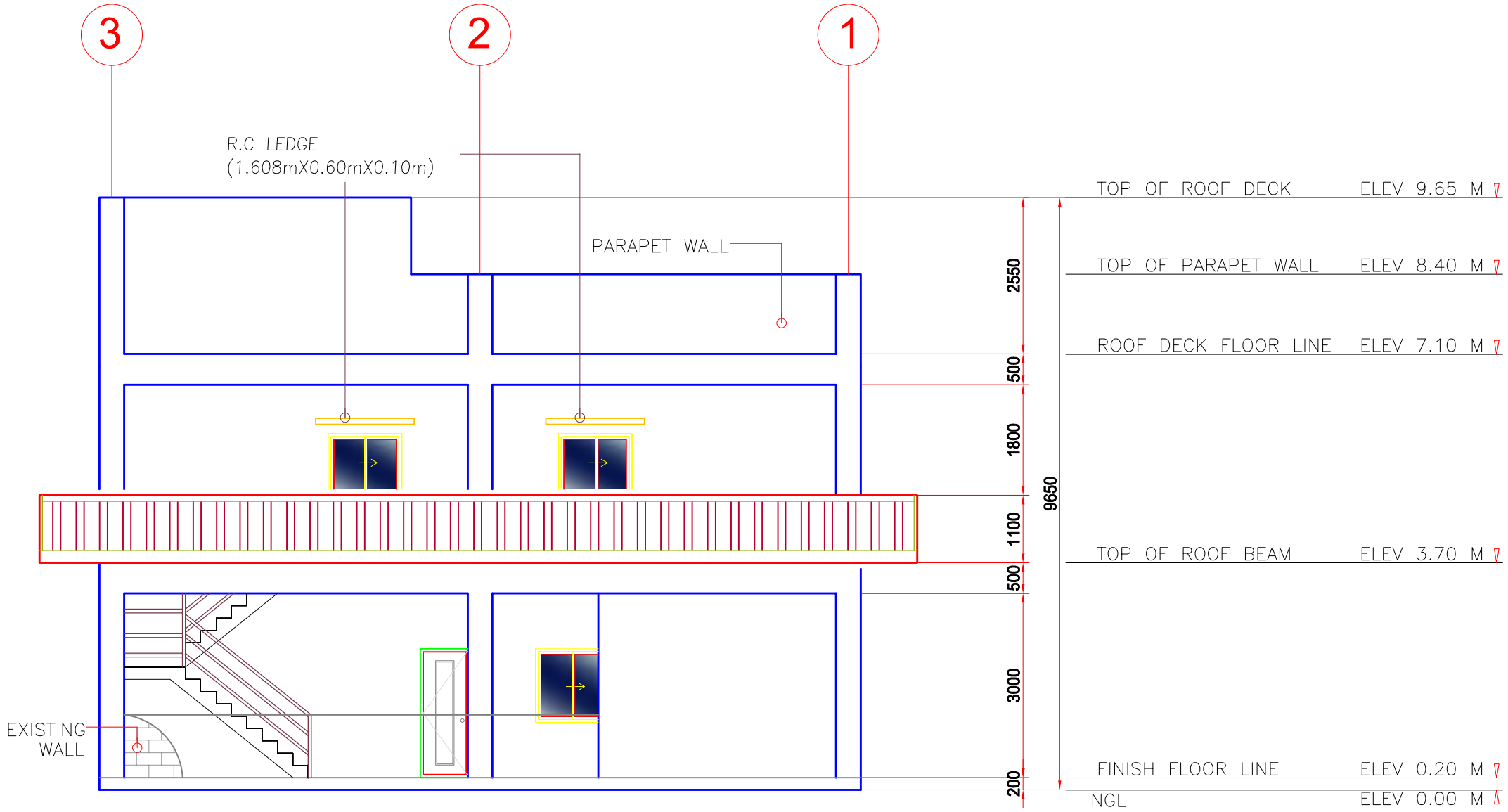
TOTAL FLOOR AREA = 738.9 SQ.M.

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-05



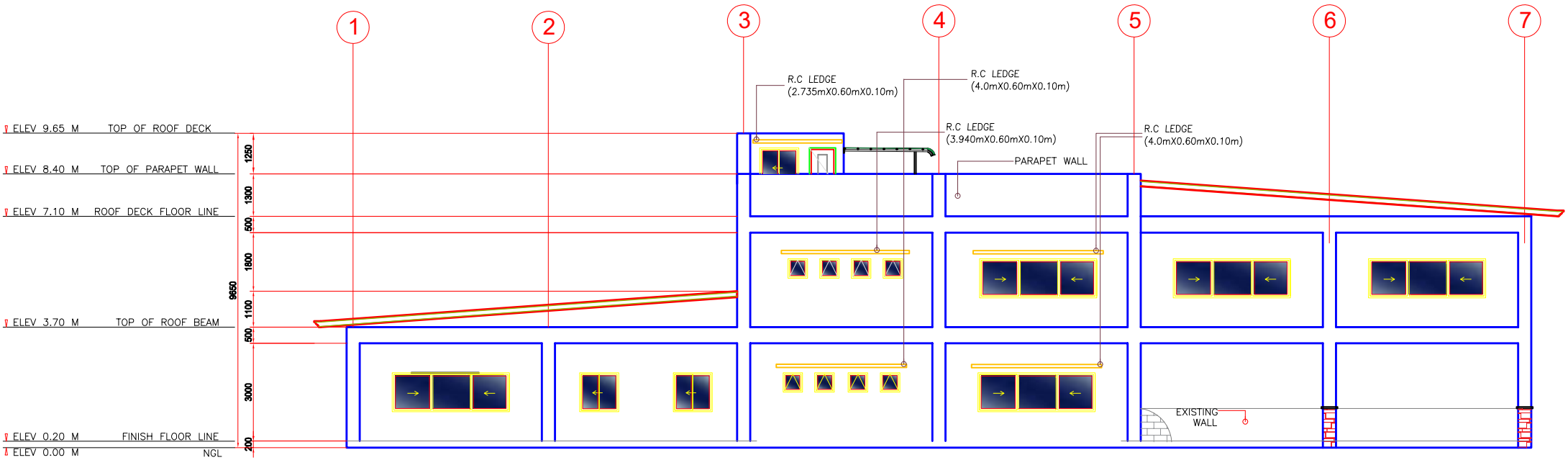
1 / A–06 FRONT ELEVATION PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-06



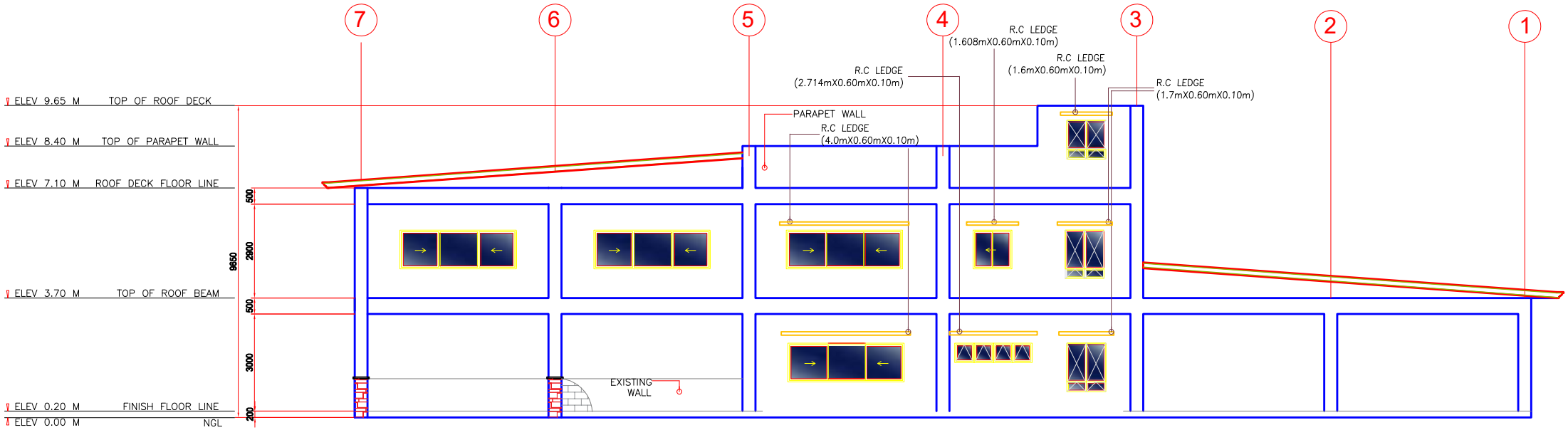
1 / A–07 REAR ELEVATION PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-07



1 / A–08 RIGHT ELEVATION PLAN

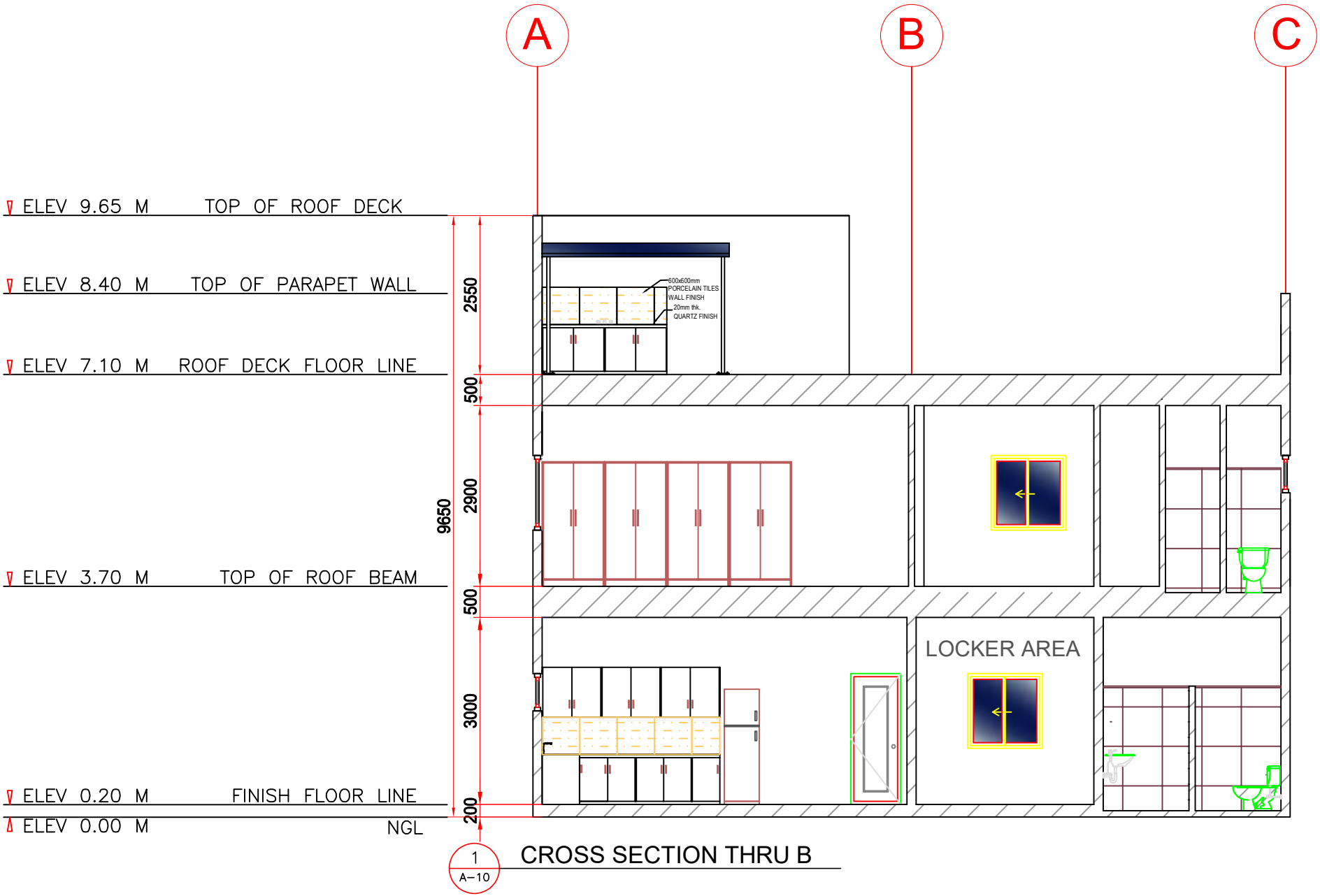
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-08



1
A–09

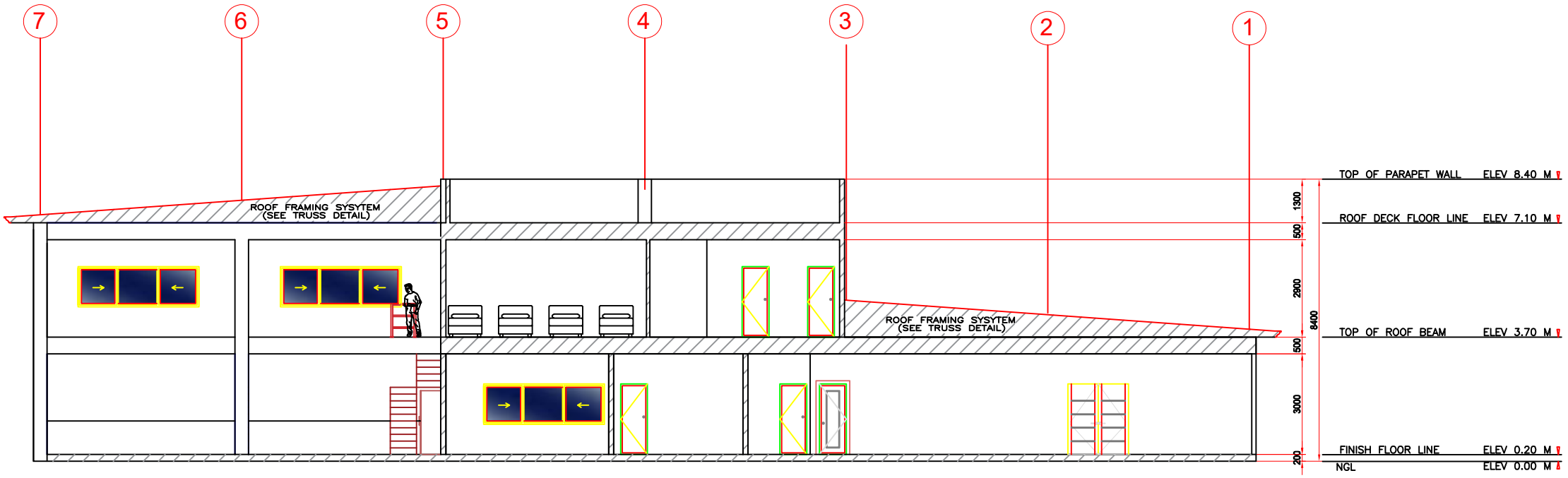
LEFT ELEVATION PLAN

	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
	REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-09



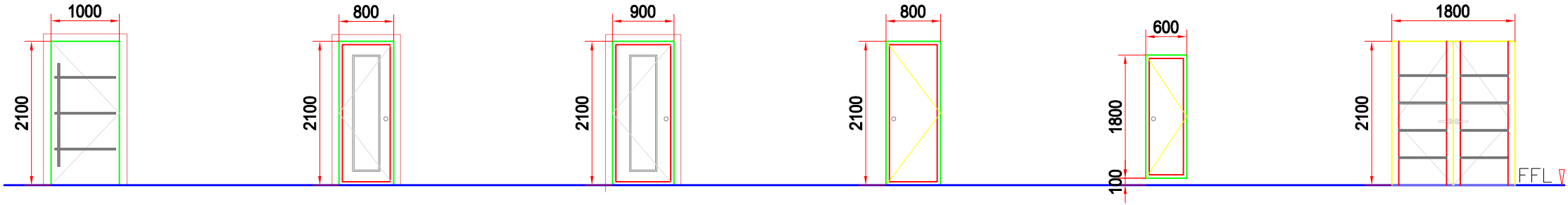
1 / A–10 CROSS SECTION THRU B

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-10

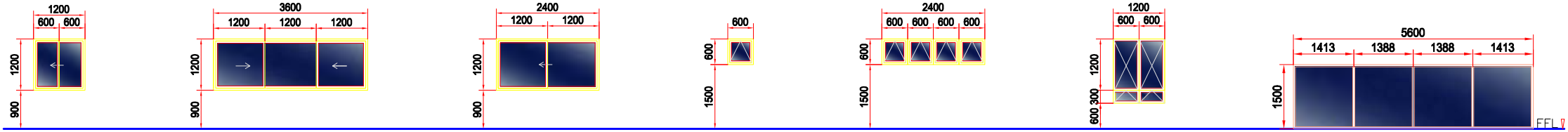


1
A–11 LONGITUDINAL SECTION THRU A

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-11



D 1	D 2	D 3	D 4	D 5	D 6
1 SET MAIN ENTRANCE SOLID PANEL TYPE DOOR ON 50 x 150mm JAMB WITH HARDWARE AND ACCESSORIES LOCKSET	6 SETS OFFICE, WHSE, EXIT, & QUARTERS AREA SOLID PANEL TYPE DOOR ON 50 x 150mm JAMB WITH HARDWARE AND ACCESSORIES LOCKSET	3 SET TRAINING ROOM, & QUARTERS AREA EXIT SOLID PANEL TYPE DOOR ON 50 x 150mm JAMB WITH HARDWARE AND ACCESSORIES LOCKSET	5 SETS T&B SOLID PANEL TYPE DOOR ON 50 x 150mm JAMB WITH HARDWARE AND ACCESSORIES LOCKSET	10 SETS T&B FLUSH TYPE DOOR ON 50 x 150mm JAMB WITH HARDWARE AND ACCESSORIES LOCKSET	1 SET TWO DOOR SOLID PANEL TYPE DOOR ON 50 x 150mm JAMB WITH HARDWARE AND ACCESSORIES LOCKSET

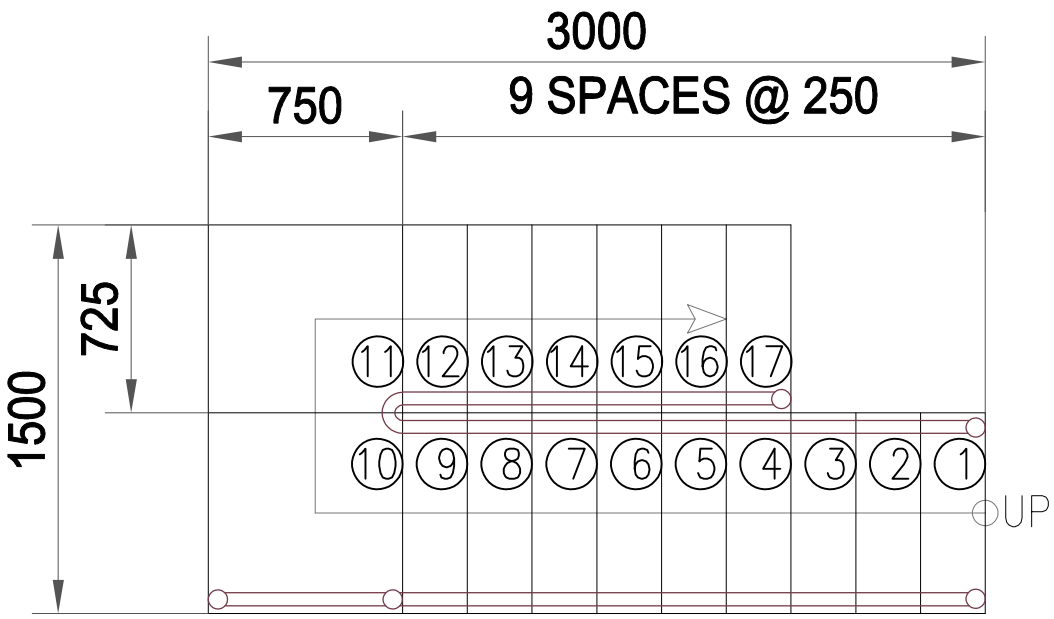


W 1	W 2	W 3	W 4	W 5	W 6	W 7
7 SETS SLIDING REFLECTIVE GLASS WINDOW W/ SCREEN	11 SETS SLIDING REFLECTIVE GLASS WINDOW W/ SCREEN	1 SET SLIDING REFLECTIVE GLASS WINDOW W/ SCREEN	10 SETS REFLECTIVE FIXED GLASS WITH AWNING TYPE WINDOW W/ SCREEN	1 SET REFLECTIVE FIXED GLASS WITH AWNING TYPE WINDOW W/ SCREEN	3 SETS REFLECTIVE FIXED GLASS WITH AWNING TYPE WINDOW W/ SCREEN	2 SETS REFLECTIVE FIXED GLASS

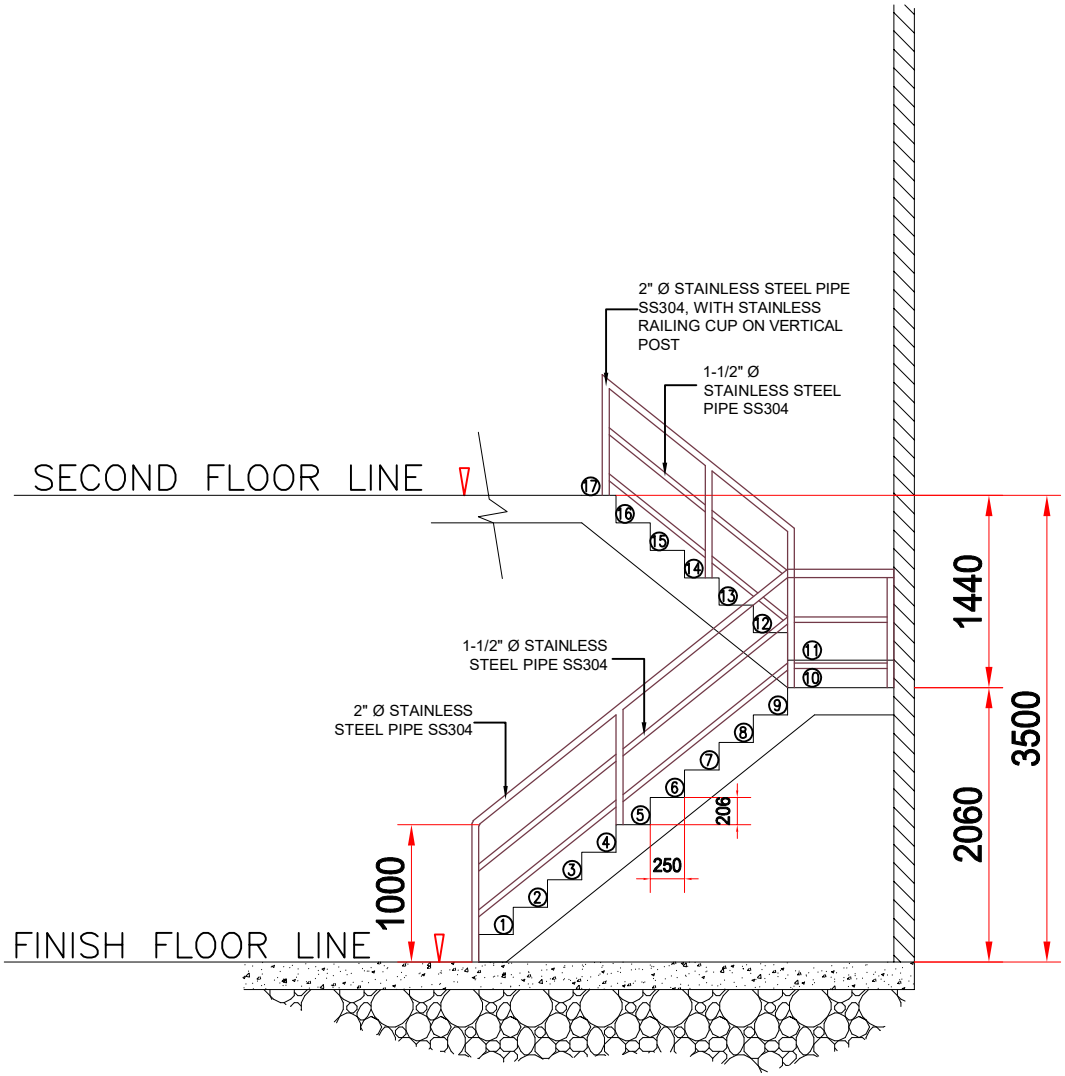
1 / A–12

SCHEDULE OF DOORS AND WINDOWS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-12



1 A–13 PLAN

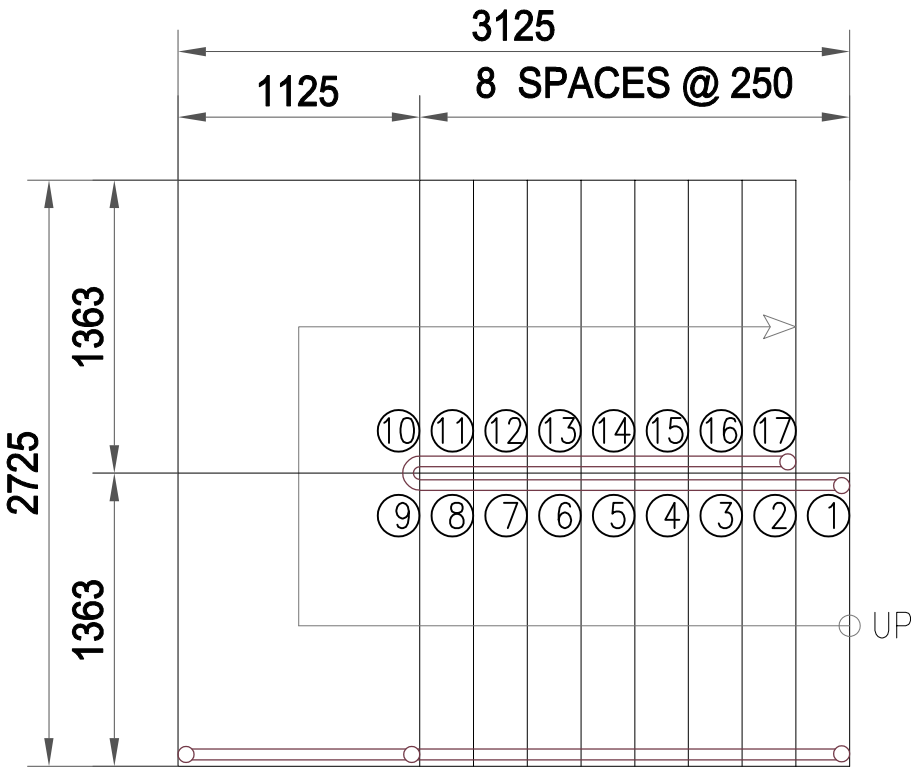


2 A–13 SECTION

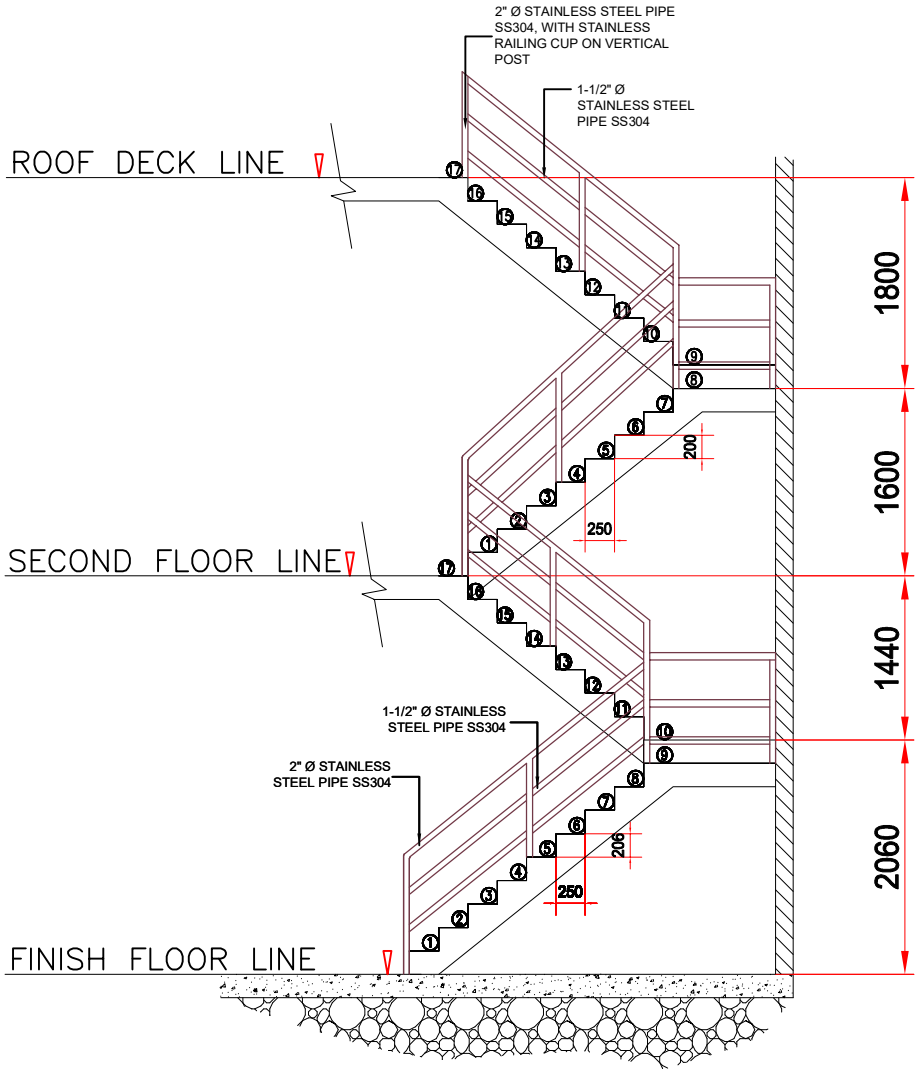
BALCONY EXIT

3 A–13 STAIR DETAILS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-13



1 / A–14 PLAN

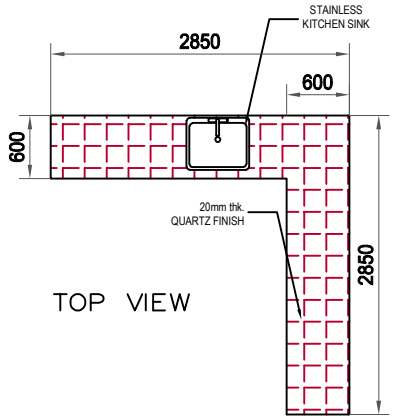


2 / A–14 SECTION

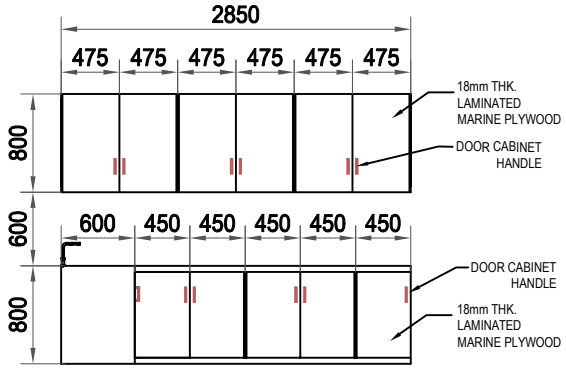
MAIN ENTRANCE

3 / A–14 STAIR DETAILS

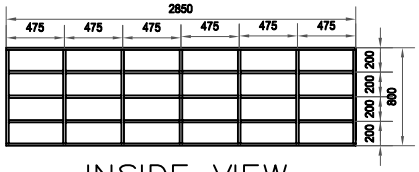
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-14



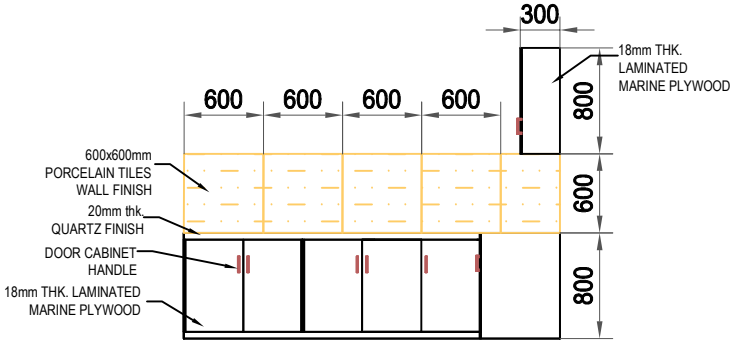
TOP VIEW



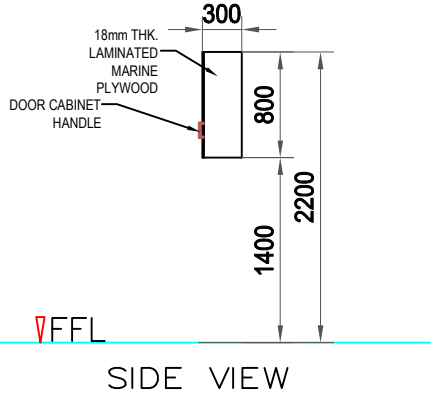
SIDE VIEW



INSIDE VIEW



FRONT VIEW

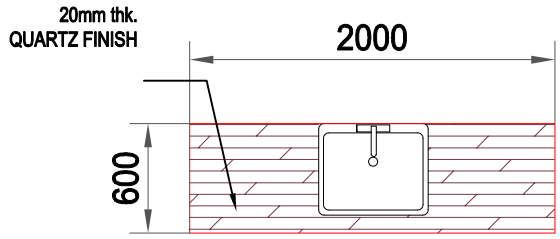


SIDE VIEW

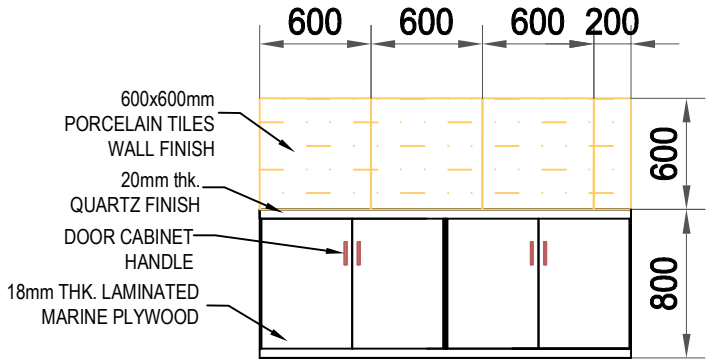
Ground flr.

1
A–15

KITCHEN COUNTER TOP DETAILS



TOP VIEW



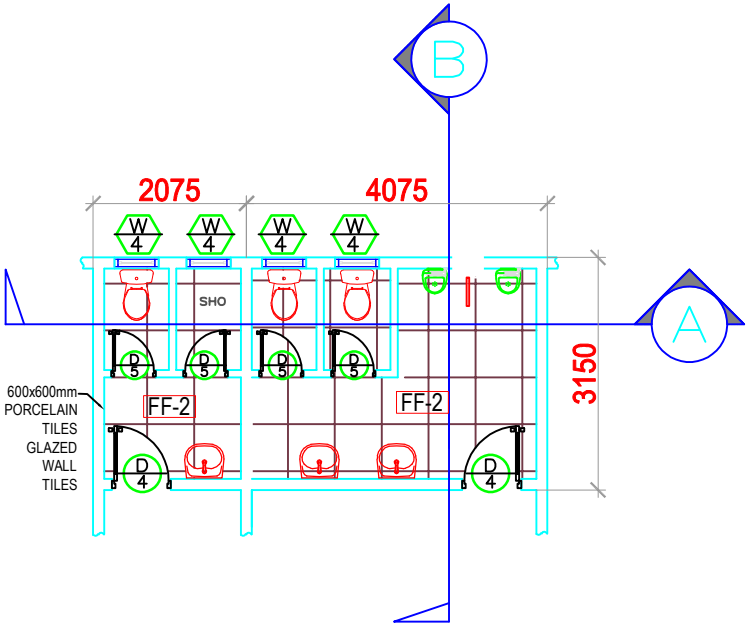
FRONT VIEW

Roof deck

2
A–15

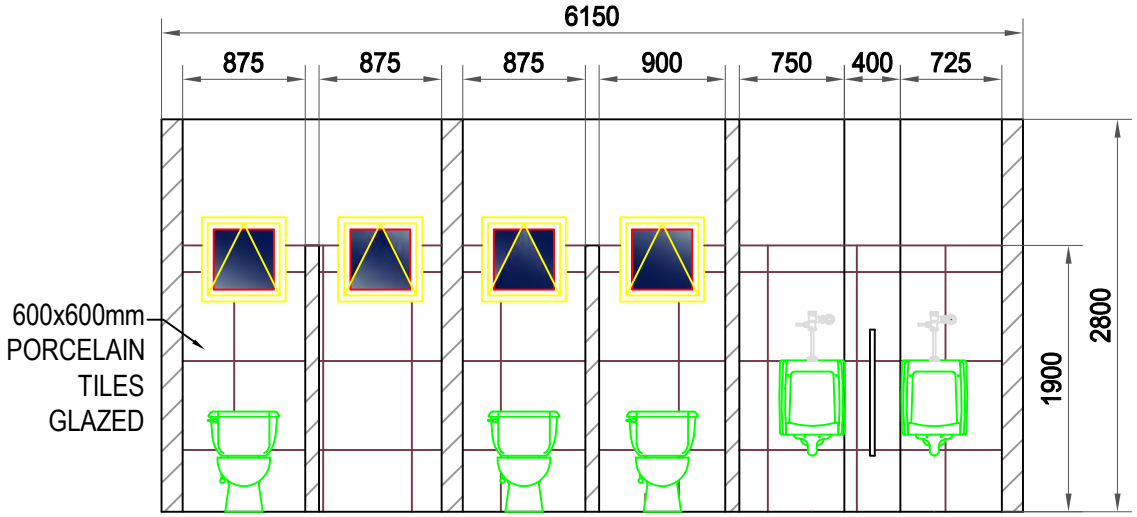
COUNTER TOP DETAILS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-15



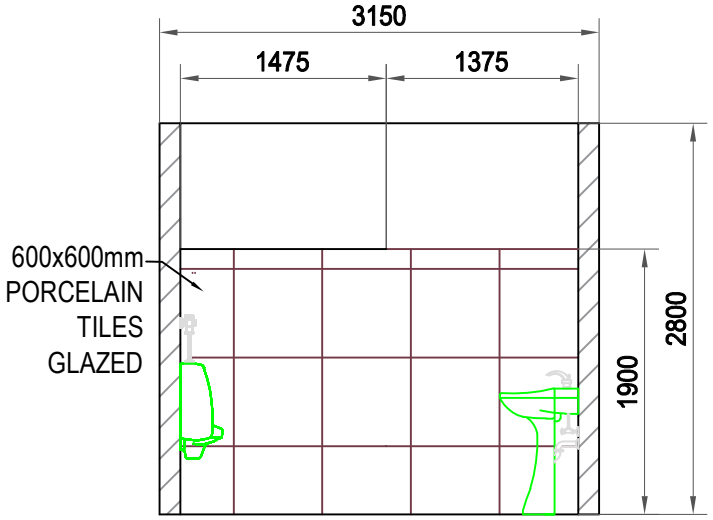
GROUND FLOOR

1 / A–16 TOILET DETAILS



GROUND FLOOR

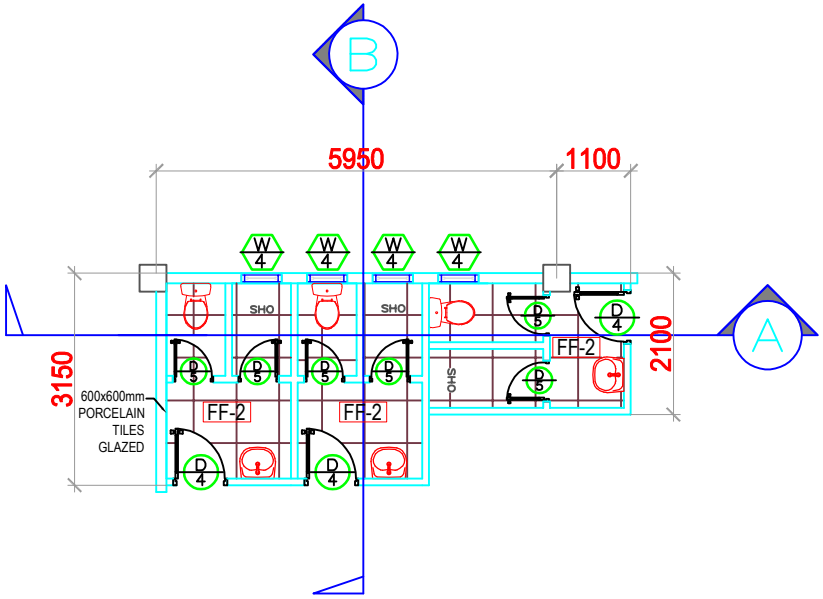
1 / A–16 CROSS SECTION THRU A



GROUND FLOOR

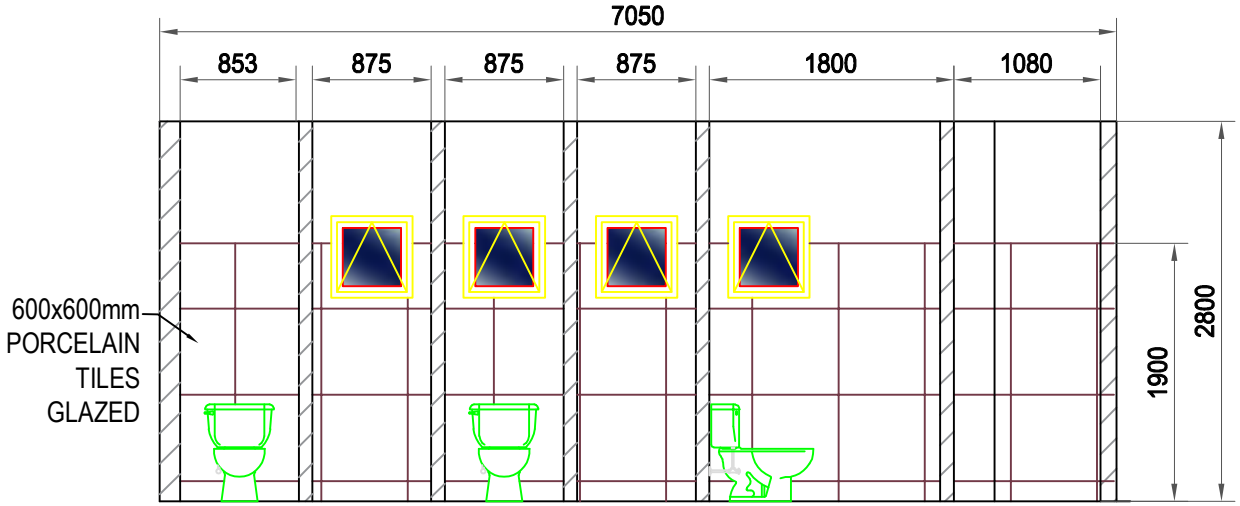
2 / A–16 LONGITUDINAL SECTION THRU B

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-16



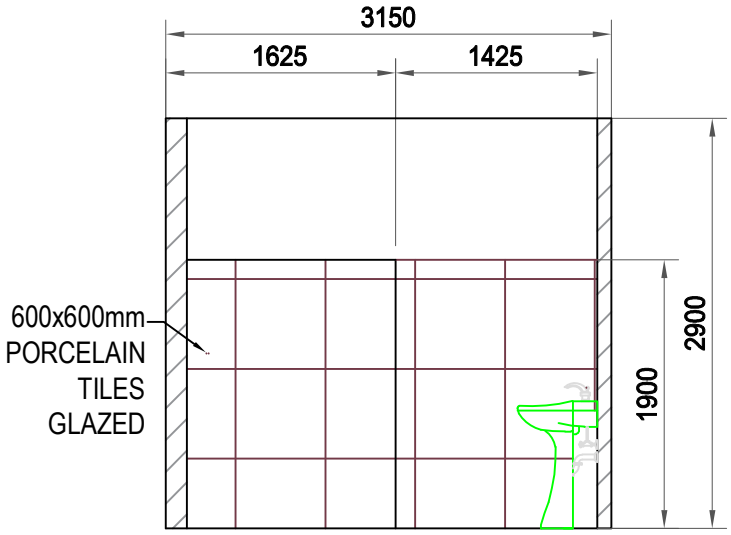
SECOND FLOOR

1 / A–17 TOILET DETAILS



SECOND FLOOR

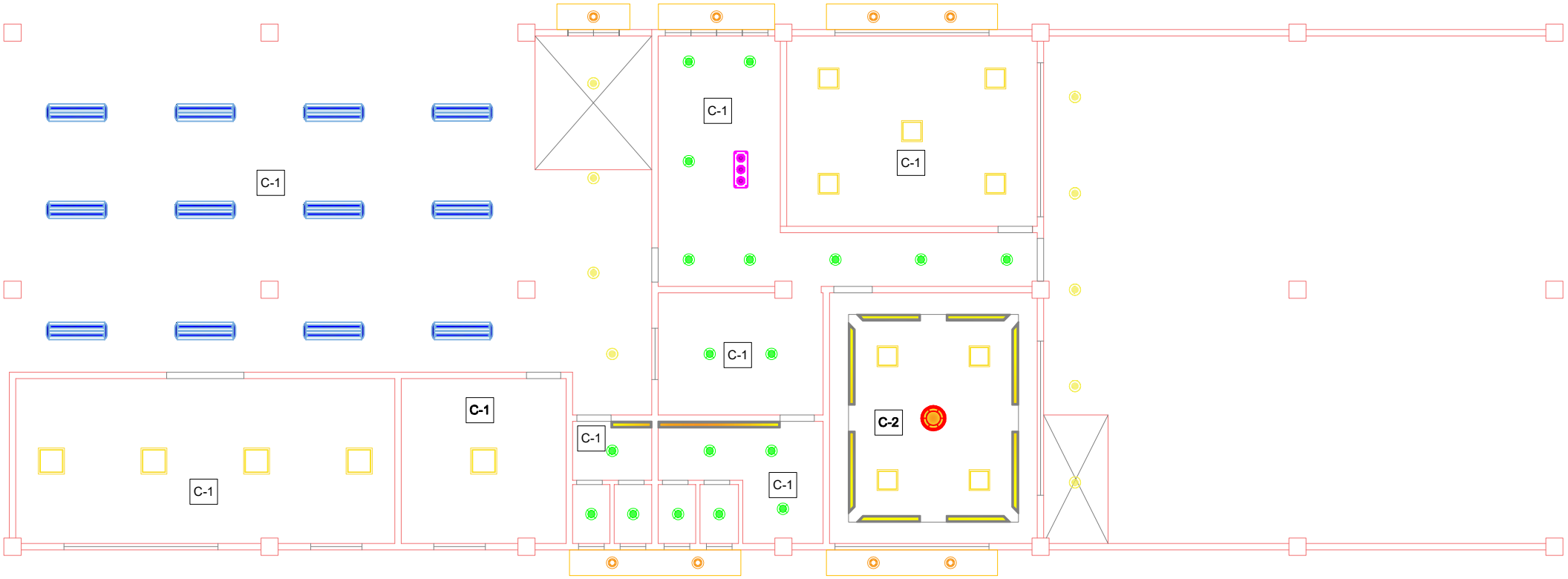
1 / A–17 CROSS SECTION THRU A



SECOND FLOOR

2 / A–17 LONGITUDINAL SECTION THRU B

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-17

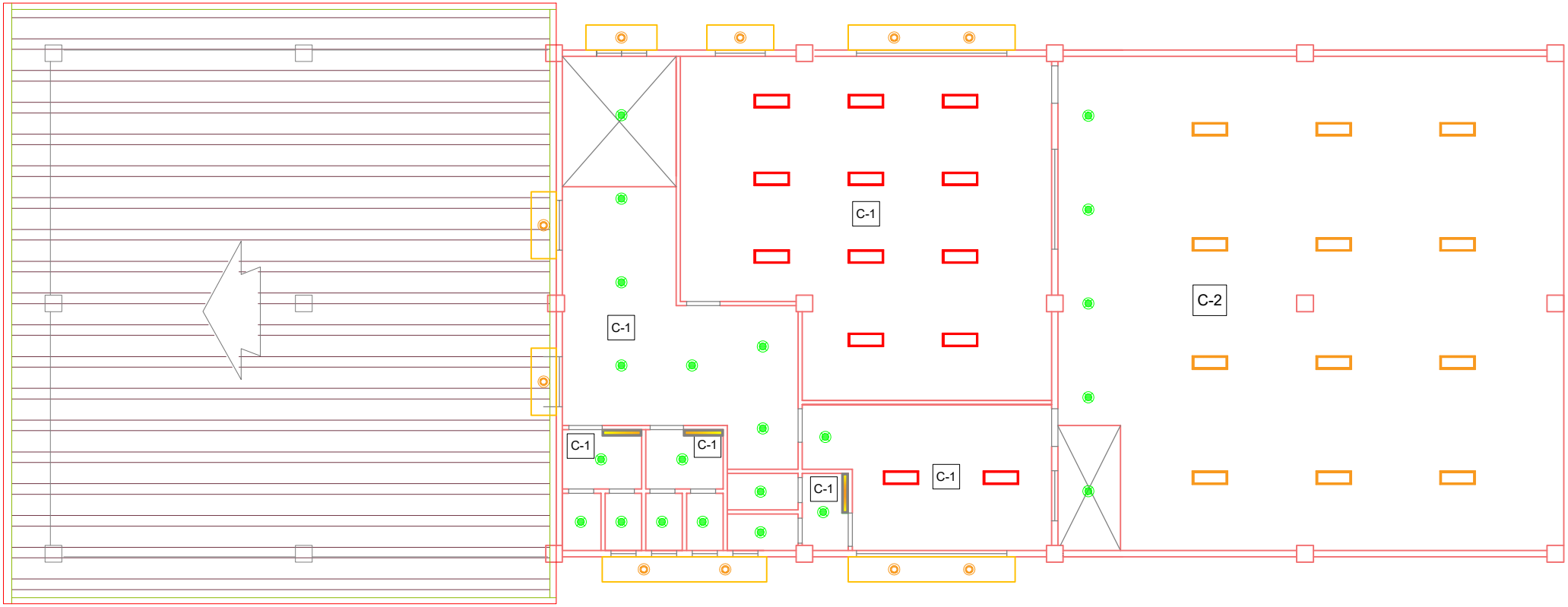


CEILING LEGEND:	
C-1	1.20 x 2.40M x 6mm thk GYSUM CEILING BOARD ON METAL FURRING
C-2	**10FT X 10IN X 8mm PV CEILING PANEL**

GROUND FLOOR

1 / A–18 REFLECTED CEILING PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-18



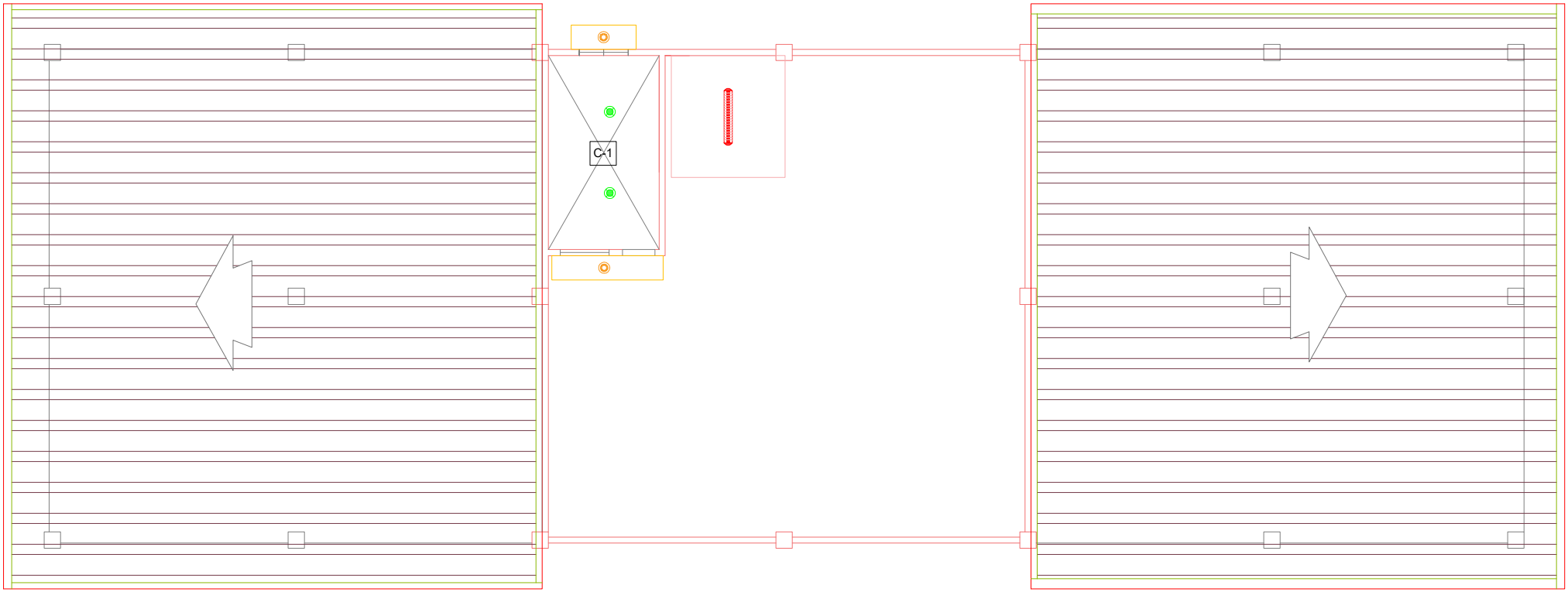
CEILING LEGEND:	
C-1	1.20 x 2.40M x 6mm thk GYSUM CEILING BOARD ON METAL FURRING
C-2	**10FT X 10IN X 8mm PV CEILING PANEL**

SECOND FLOOR

1 / A–19

REFLECTED CEILING PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-19



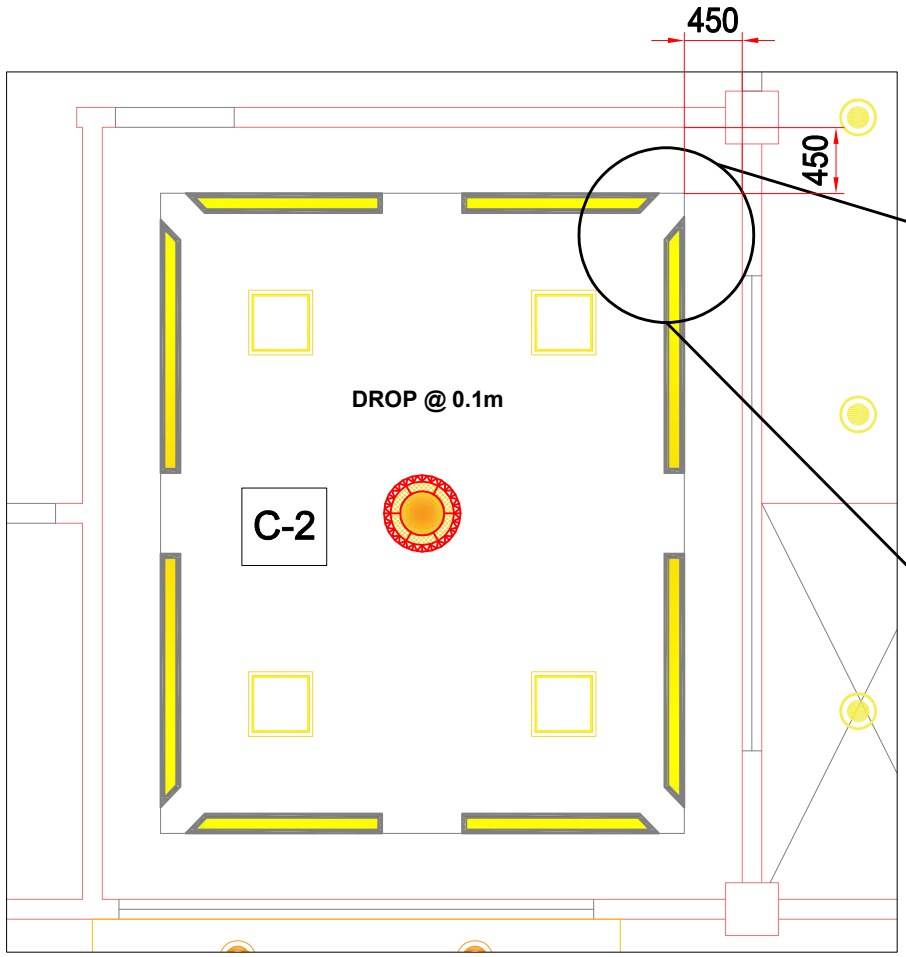
CEILING LEGEND:	
C-1	1.20 x 2.40M x 6mm thk GYSUM CEILING BOARD ON METAL FURRING
C-2	**10FT X 10IN X 8mm PV CEILING PANEL**

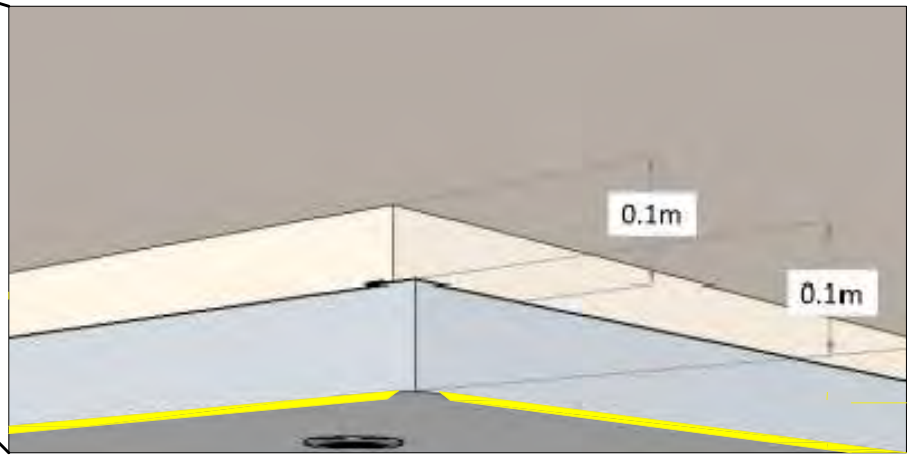
ROOF DECK

1 / A–20

REFLECTED CEILING PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-20



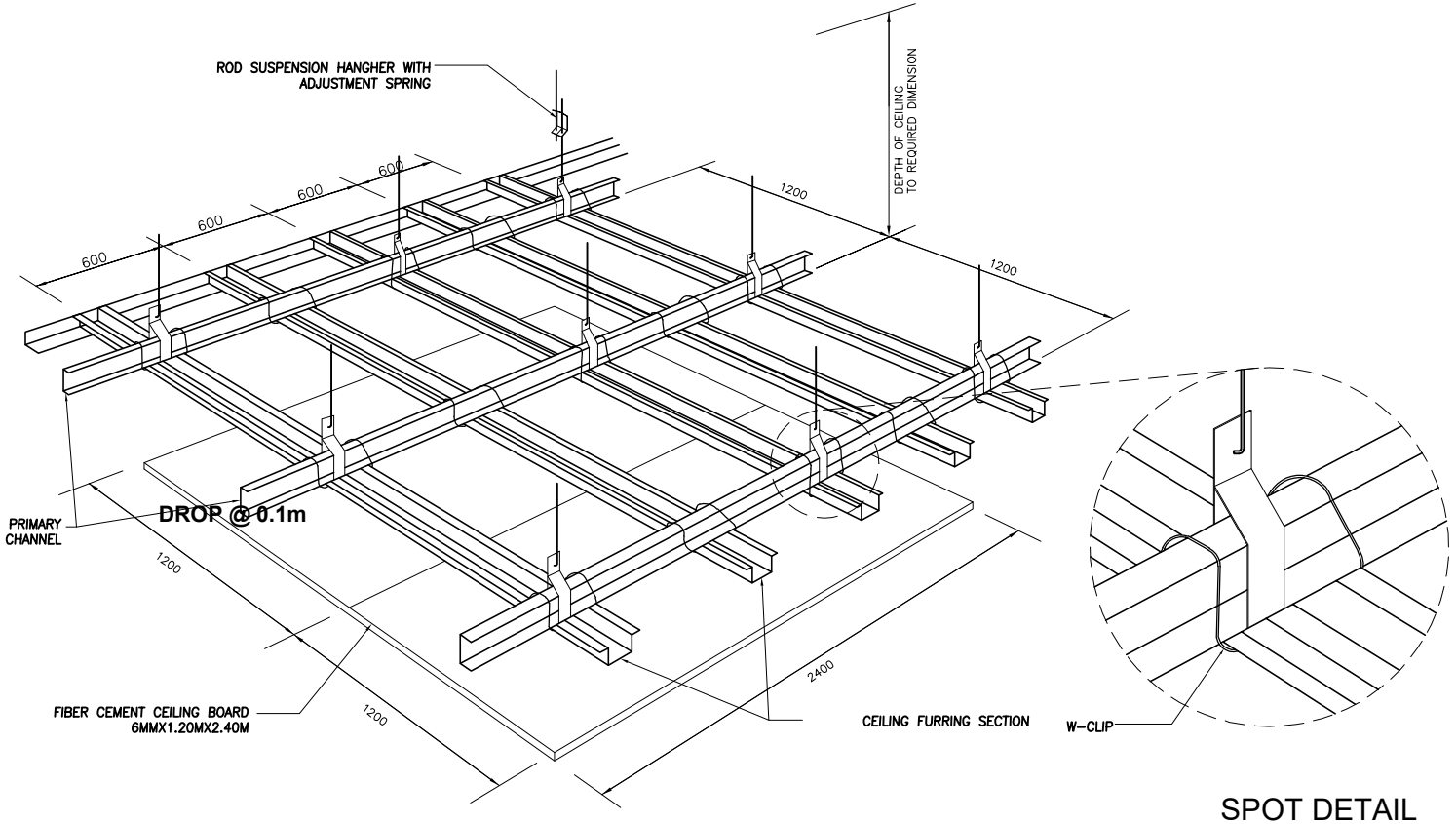


CONFERENCE ROOM - GROUND FLOOR

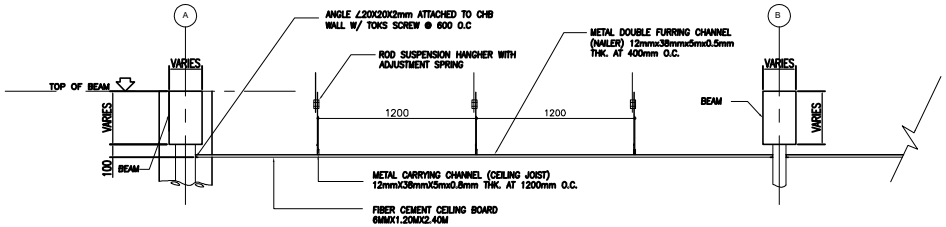
1 / A–21 DROP CEILING PLAN DETAILS

CEILING LEGEND:	
C-1	1.20 x 2.40M x 6mm thk GYSUM CEILING BOARD ON METAL FURRING
C-2	**10FT X 10IN X 8mm PV CEILING PANEL**

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-21



SPOT DETAIL



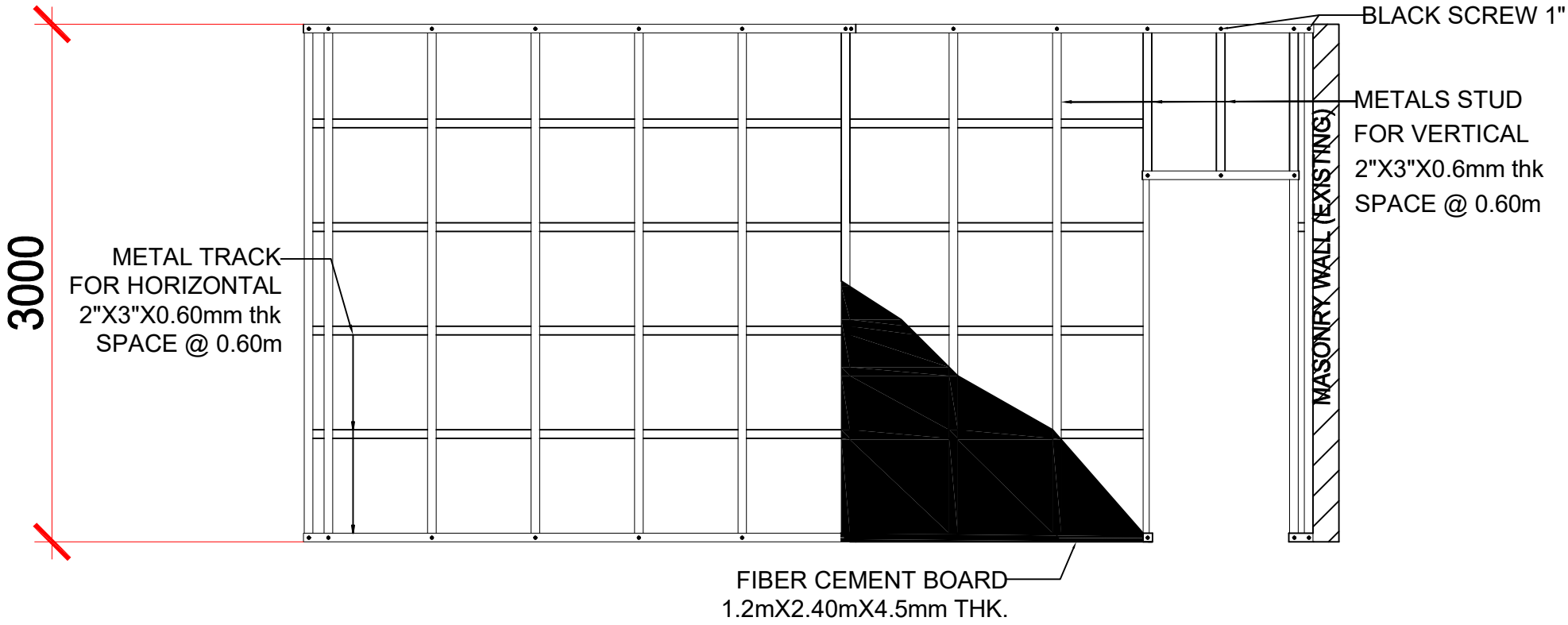
SECTION (CEILING)

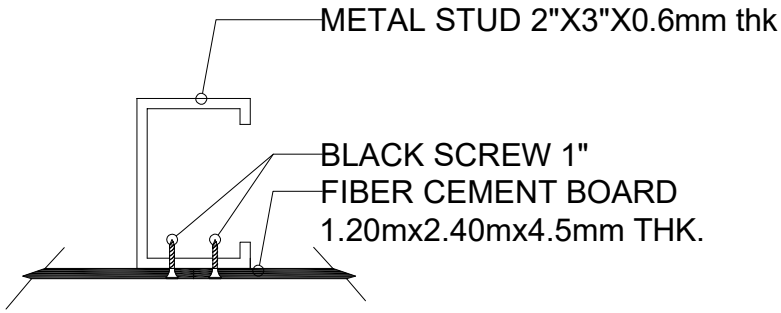
TYPICAL

CEILING DETAILS

1 / A-22

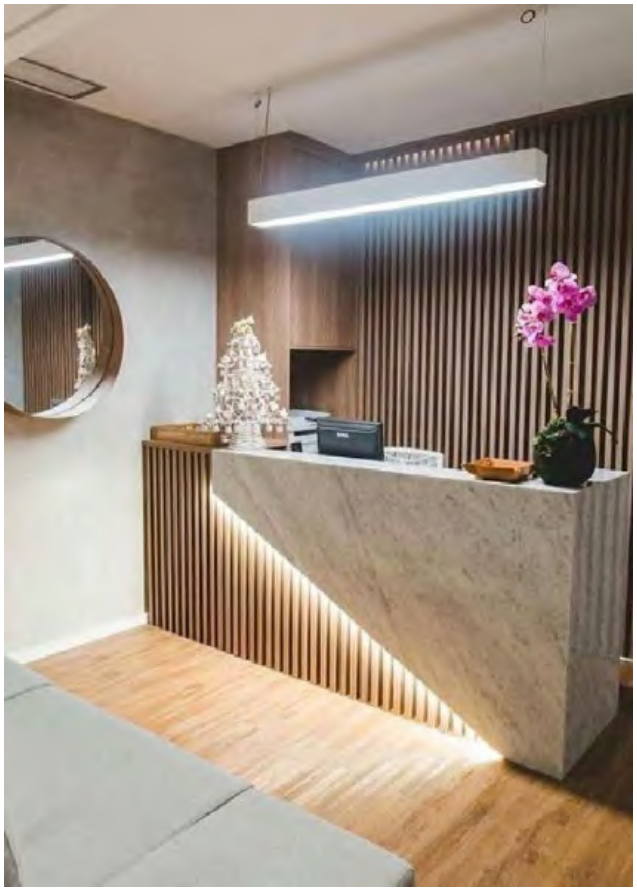
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-22



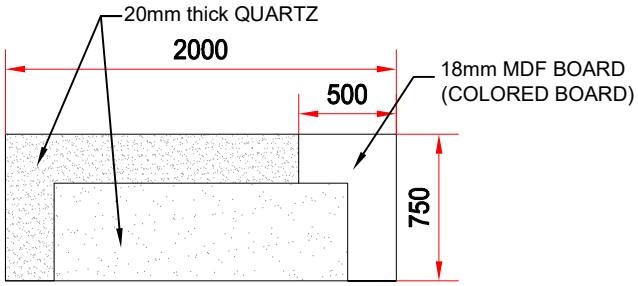


1 / A-23 DRY WALL PARTITION DETAILS

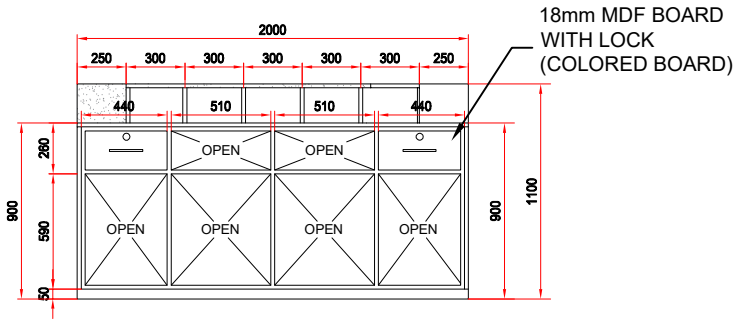
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-23



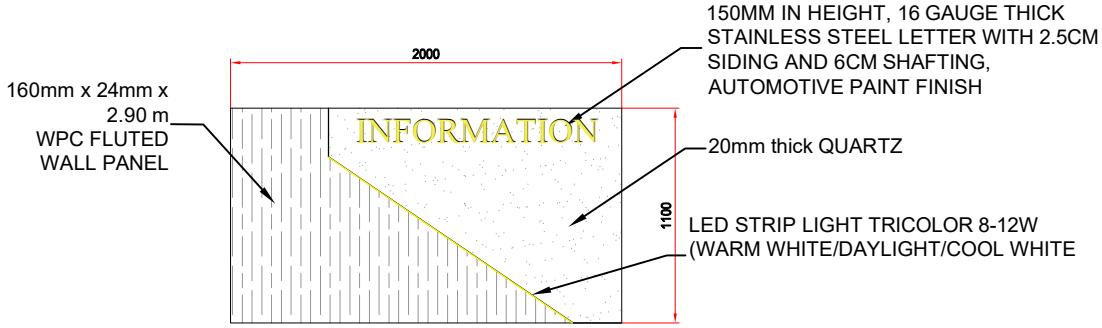
1 A–24 Main Lobby Information with Chair



PLAN



REAR SIDE



FRONT

2 A–24 LOBBY COUNTER DETAILS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-24

Specification:
5 layers - 4 adjustable shelves
Metal Swing Door Metal Cabinet
Color: Light Gray
Thickness: Gauge 20
Powder Coated Steel
Dimension:
Width - 90cm
Depth - 40cm
Height - 185cm
Quantity - 3 sets

1 / A–25 STEEL OFFICE CABINET

Specification:
Wooden Table, 6 Seaters
1500mmL x 850mmW x 750mmH
Quantity: 1 set
Wooden Chair w/ cushion
410mmL x 410mmW x 930mmH
Quantity: 6 sets

6 SEATER
2 / A–25 DINING TABLE

DIMENSION:
0.20mW x 1.20mD x .75m HT
Laminated Finish
Quantity: 1 set

10 SEATER
3 / A–25 CONFERENCE TABLE

Details:
Chair with armrest, with foam padded
starbase and caster in black nylon
pneumatic height adjustment
back and seat in leatherette finish
Quantity: 10 sets

4 / A–25 CONFERENCE CHAIR

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-25

Specification:
-Two (2) fixed shelves on the right side
-With hanger rod on the left side
-Door: Made of tempered glass 3/16" thickness with steel
frame - With lock
-Handle Made of Aluminum
-With small hammer steel box on the right side
-Body and shelves: Made of Cold -Rolled Sheet: Gauge #22 (0.7mm thick)
72" H X 36" W X 21" D
Quantity: 5 sets

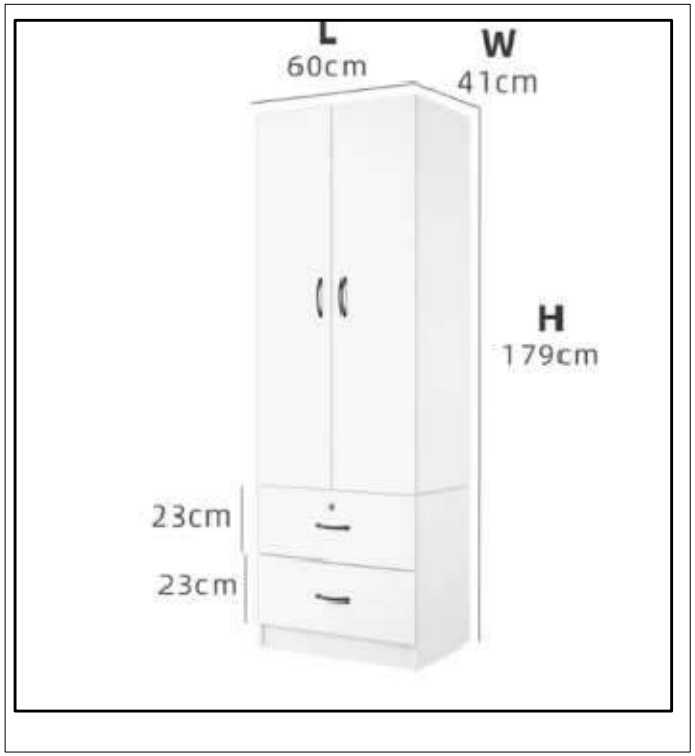
1 A–26 FIRE FIGHTING EQUIPMENT CABINET

Specification:
Heavy duty Single Metal Bedframe with Mattress 36"x75"x4"
Quantity: 12 sets

2 A–26 BEDFRAME WITH MATTRESS

Quantity:
1.3m x 1.25m - 7 sets
3.7m x 1.25m - 7 sets
2.5m x 1.25m - 1 set

3 A–26 KOREAN BLINDS



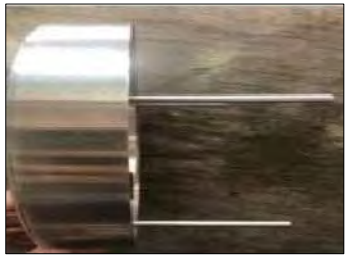
Specification:
Multi-Functional Wardrobe Drawer Cabinet for Clothes Cabinet with Hanger
60cm L x 41cm W x 179cm H
Laminated Finish
Quantity: 7 sets

4 A–26 BEDFRAME WITH MATTRESS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-26

SAMPLE LETTER FRONT

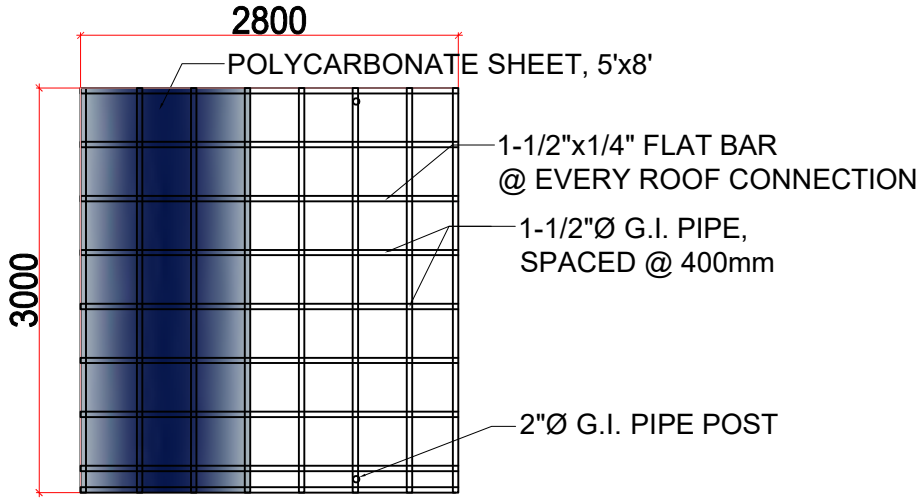
SAMPLE LETTER BACK



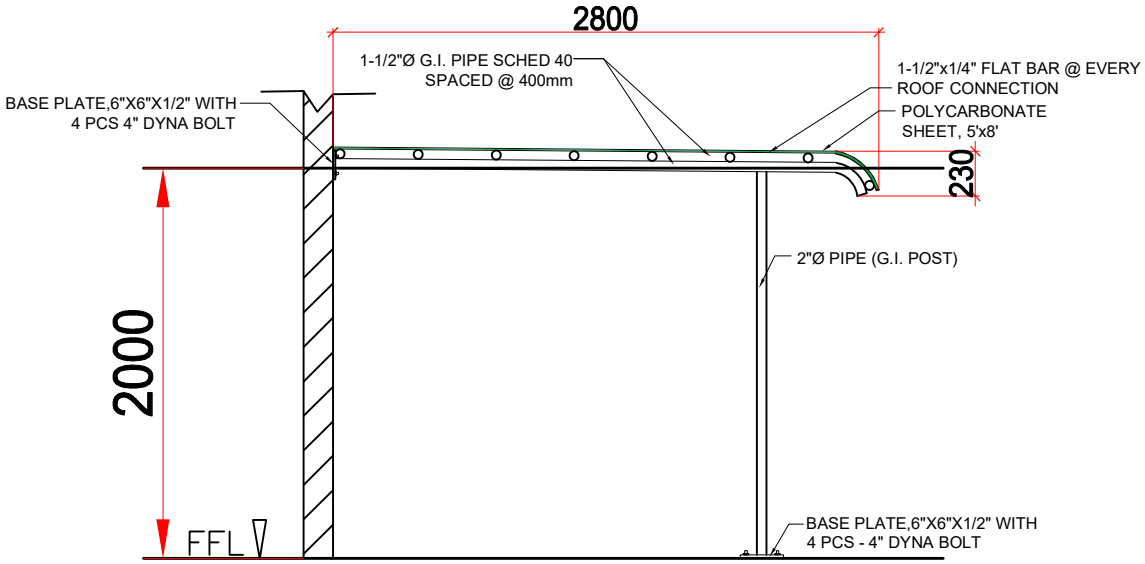
SAMPLE LETTER SIDE

1 / A–27 STAINLESS STEEL LETTERS & PEZA LOGO

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-27



CANOPY PLAN

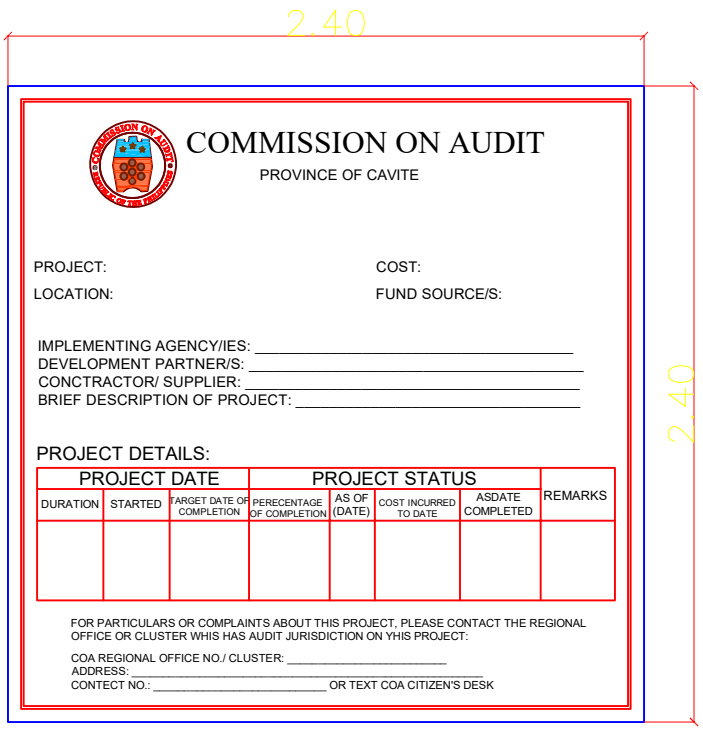


SIDE VIEW

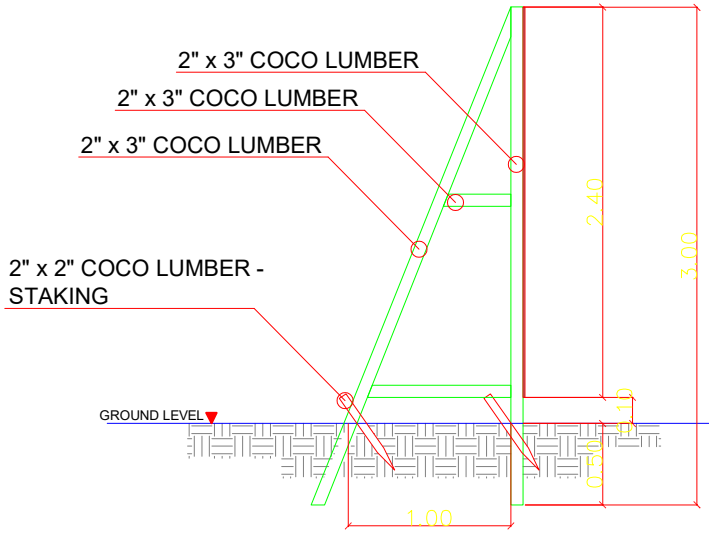
ROOF DECK

1 / A–28 CANOPY DETAILS

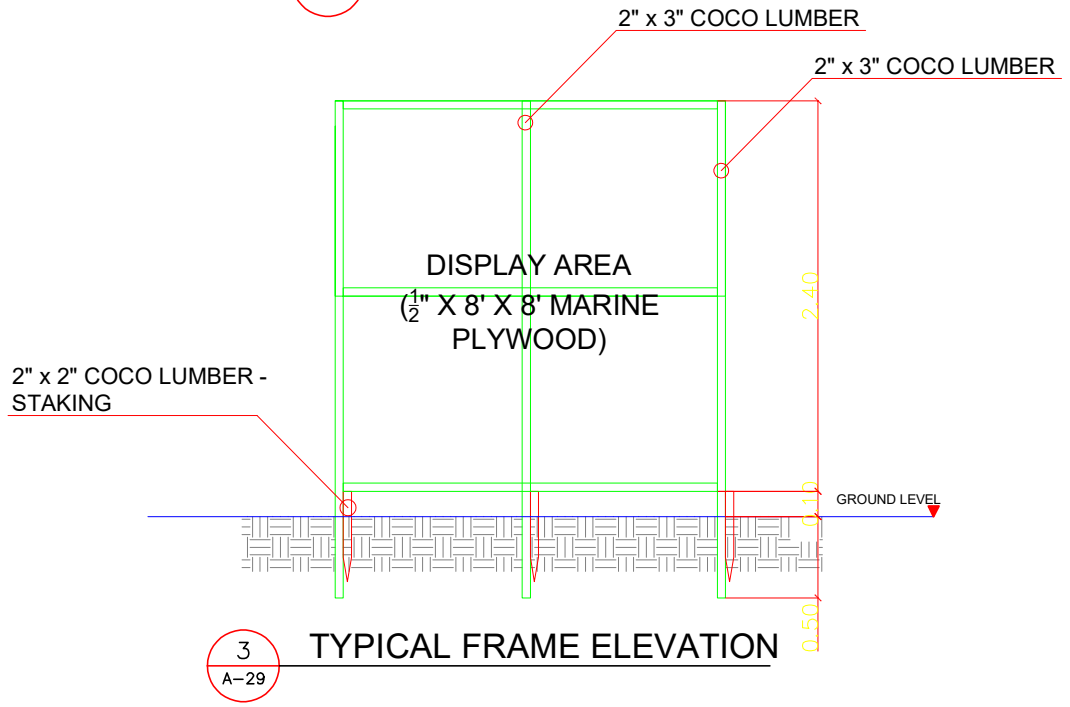
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-28



1 A–29 COA PROJECT BILLBOARD



2 A–29 TYPICAL FRAME ELEVATION



3 A–29 TYPICAL FRAME ELEVATION

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	A-29

1. ALL ELECTRICAL WORKS SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE (PEC).
2. ALL MATERIALS SHALL BE NEW AND CONFORM TO THE GIVEN SPECIFICATIONS AS INDICATED ON THE PLANS. ALL MATERIALS SHALL BE STANDARD PRODUCTS OF REPUTABLE MANUFACTURERS AND SHALL BEAR THE NAME OF THE MANUFACTURER.
3. ALL MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSPECTING SUCH MATERIALS FOR DEFECTS OR NON-CONFORMANCE WITH THE GIVEN SPECIFICATIONS. APPROPRIATE SAMPLES SHALL BE SUBMITTED PRIOR TO THE PURCHASE AND INSTALLATION OF SPECIFIC MATERIALS.
4. ALL WIRES SHALL BE COPPER, SOFT-DRAWN AND ANNEALED AND SHALL BE 98% CONDUCTIVITY WITH MINIMUM SIZE OF 3.5 SQ.MM FOR FEEDERS AND GROUNDING WIRE, SHALL BE SMOOTH AND TRUE OF A CYLINDRICAL FORM AND VARIATION SHALL BE WITHIN 1% OF THE ACTUAL SIZE CALLED FOR.
5. ALL WIRES FOR POWER AND LIGHTING SYSTEM SHALL BE PLASTIC INSULATED FOR 600 VOLTS WORKING PRESSURE TYPE "THHN" UNLESS OTHERWISE NOTED ON PLANS OR SPECIFIED.
6. INSTALLATION OF ALL WIRES SHALL BE CARRIED OUT IN SUCH A MANNER THAT KEEP TENSION FORCES AND STRESS ON CABLES TO MINIMUM AND TO PREVENT STRETCHING. ALL INSTALLED WIRES SHALL BE REPLACED IF INSULATIONS WERE DAMAGED. ALL WIRINGS SHALL BE CONTINUOUS FROM OUTLET WITHOUT SPLICES, EXTEND WIRE SIZING FOR THE ENTIRE LENGTH OF A CIRCUIT UNLESS OTHERWISE NOTED. AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL BRANCH CIRCUITS INCLUDING LIGHTING AND POWER CIRCUITS.
7. INSTALLATION OF NEW FEEDER WIRES FOR LIGHTING SYSTEM, OUTLETS, VENTILATION SYSTEM, AND ACU'S INCLUDING THE GROUNDING UP TO CIRCUIT BRANCHES, CHIPPING OF WALLS FOR EMBEDDING OF WIRES AND CONDUITS AND RESTORATION OF CONCRETE.
8. ALL FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED ON PLANS; BRANCH CIRCUIT HOMERUN WIRES SHALL BE INSTALLED IN INDIVIDUAL.
9. COLOR IDENTIFICATION OF EACH PHASE SHALL BE COLOR-CODED INSULATION. EQUIPMENT GROUNDING CONDUCTOR SHALL BE GREEN, WHILE WHITE SHALL BE IDENTIFIED TO NEUTRAL CONDUCTOR. THE COLOR OF THE UNGROUNDED CONDUCTORS IN DIFFERENT VOLTAGE SYSTEMS SHALL BE AS FOLLOWS:

230 VOLT, 3-PHASE	PHASE A – RED
	PHASE B – YELLOW
	PHASE C – BLUE
	GROUND – GREEN
230 VOLT, 2-PHASE	PHASE A – RED
	PHASE B – YELLOW
	GROUND – GREEN

10. REWIRING OF MAIN FEEDER WIRES FROM TRANSFORMER (LOAD SIDE), INCLUDING THE WIRE RUNNING THROUGH THE KILOWATT-HOUR ELECTRIC METER UP TO THE MAIN DISTRIBUTION PANELBOARD (MDP).
11. ALL CONDUIT SHALL POLYVINYL CHLORIDE CONDUIT (PVC) PIPE FOR INDOOR WIRING, WHILE RIGID STEEL CONDUIT (RSC) FOR OUTDOOR WIRING WITH MINIMUM SIZE OF 20MM DIAMETER.
12. ALL CONDUIT SHALL BE CONCEALED UNLESS SPECIFICALLY SHOWN, OR NOTED OTHERWISE. EXPOSED CONDUIT RUNS SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE BUILDING LINE.
13. INSTALLATION OF 125AT ENCLOSED CIRCUIT BREAKER AT CONCRETE PEDESTAL.
14. INSTALLATION OF TWO (2) SETS OF 30AT ENCLOSED CIRCUIT BREAKER INTENDED FOR THE 3TR FLOOR MOUNTED SPLIT TYPE ACU'S.
15. INSTALLATION OF NEW SETS OF MOLDED CASE CIRCUIT BREAKERS (MCCB) INTENDED FOR EXISTING MAIN DISTRIBUTION PANELBOARD (MDP) CONSISTING OF THIRTEEN (13) SETS IN TOTAL.
16. INSTALLATION OF TWO SUB-PANEL BOARDS NAMELY PP-2F WITH 8 BRANCHES CIRCUIT AND PP-FL WITH 6 BRANCHES CIRCUIT.
17. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND HAVE VOLTAGE, CURRENT AND INTERRUPTING RATING INDICATED. PLUG-IN CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
18. ALL CIRCUIT BREAKERS OR DISCONNECT SWITCHES THAT ARE NOT AVAILABLE IN THE SPECIFIED RATINGS, THE NEXT HIGHEST STANDARD RATING SHALL BE USED. CHECKED THE DESIGNED RATING OF CIRCUIT BREAKERS AND VERIFY THE SPECIFIED FEEDER AND BRANCH CIRCUIT CONDUCTORS BEFORE INSTALLATION AND TERMINATION.
19. PANELBOARD SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE (PEC). DIRECTORIES SHALL BE INSTALLED TO INDICATE LOAD SERVED BY EACH CIRCUIT. PROVIDE ALL NECESSARY CABLE GLANDS, CABLE TIES, CABLE LUGS AND ACCESSORIES FOR CABLE TERMINATION.
20. JUNCTION BOXES OF CODE GAUGE 16 (MINIMUM) STEEL GALVANIZED SHALL BE PROVIDED AS INDICATED OR AS REQUIRED FOR FACILITATING THE PULLING OF WIRES AND CABLES.
21. VERIFY ELECTRICAL DRAWINGS FOR LIGHTING FIXTURES, CONVENIENCE OUTLETS AND OTHER WIRING DEVICES INCLUDING EXACT LOCATION, RATINGS OF EQUIPMENT AND MOUNTING HEIGHTS WITH THE PROJECT IN CHARGE OR ENGINEER OR ANY OF HIS REPRESENTATIVES AND CHANGES SHALL BE MADE ACCORDINGLY.
22. COMPLETE TESTING AND COMMISSIONING WORKS (CONTINUITY TESTING/LOOP CHECKING, INSULATION RESISTANCE TESTING VOLTAGE TESTING, AND PHASE SEQUENCE TESTING) OF THE WHOLE ELECTRICAL SYSTEM. SHALL SUBMIT WRITTEN COPIES OF ALL TEST RESULTS VALIDATED BY QUALIFIED ELECTRICAL PRACTITIONER.
23. RETRIEVAL OF ALL ELECTRICAL SERVICE EQUIPMENTS, ELECTRICAL WIRINGS, FIXTURES AND OTHER USABLE MATERIALS SHOULD BE SURRENDERED TO PEZA PROPERTY CUSTODIAN.
24. ALL WORKS SHALL BE EXECUTED UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED PROFESSIONAL ELECTRICAL ENGINEER/REGISTERED ELECTRICAL ENGINEER/REGISTERED MASTER ELECTRICIAN.
25. AFTER COMPLETION OF THE ENTIRE INSTALLATION, THE CONTRACTOR SHALL PAY AND OBTAIN FOR THE CERTIFICATE OF FINAL ELECTRICAL INSPECTION (CFEI) FROM THE AUTHORITIES HAVING JURISDICTION AND SUBMIT THE SAME TO THE PROJECT IN CHARGE/ENGINEER.

1 EE-01 GENERAL NOTES

	18W SURFACE MOUNTED LED DOWNLIGHT (DAYLIGHT)
	18W RECESSED INTEGRATED LED DOWNLIGHT (DAYLIGHT)
	18W ALUMINUM VERTICAL SURFACE MOUNTED LED DOWNLIGHT (DAYLIGHT)
	18W LED PENDANT CEILING LIGHT - 3X6W (DAYLIGHT)
	18W WEATHER PROOF T8 LED TUBE LIGHT (DAYLIGHT)
	36W RECESSED TYPE LED LIGHT WITH DUST PROOF LOUVER 2X18W (DAYLIGHT)
	24W CRYSTAL LED CEILING LAMP TRICOLOR (WARM WHITE/DAYLIGHT/COOL WHITE)
	16W LED OUTDOOR WALL LAMP - 2X8W TRICOLOR (WARM WHITE/DAYLIGHT/COOL WHITE)
	36W RECESSED SQUARE LED BACKLIT PANEL LIGHT (DAYLIGHT)
	48W RECESSED RECTANGULAR LED BACKLIT PANEL LIGHT (DAYLIGHT)
	36W RECESSED RECTANGULAR LED BACKLIT PANEL LIGHT (DAYLIGHT)
	ALUMINUM PROFILE LED STRIP LIGHT TRICOLOR 8-12W (WARM WHITE/DAYLIGHT/COOL WHITE)
	100W LED FLOODLIGHT (DAYLIGHT)
	50W LED FLOODLIGHT (DAYLIGHT)
	100W SOLAR LED FLOODLIGHT (DAYLIGHT)
	6W LED DUAL OPTICS EMERGENCY LIGHT (DAYLIGHT)
FIRE EXIT	5W ALUMINUM TYPE DOUBLE-SIDED FACE LED EXIT LIGHT (GREEN COLOR)

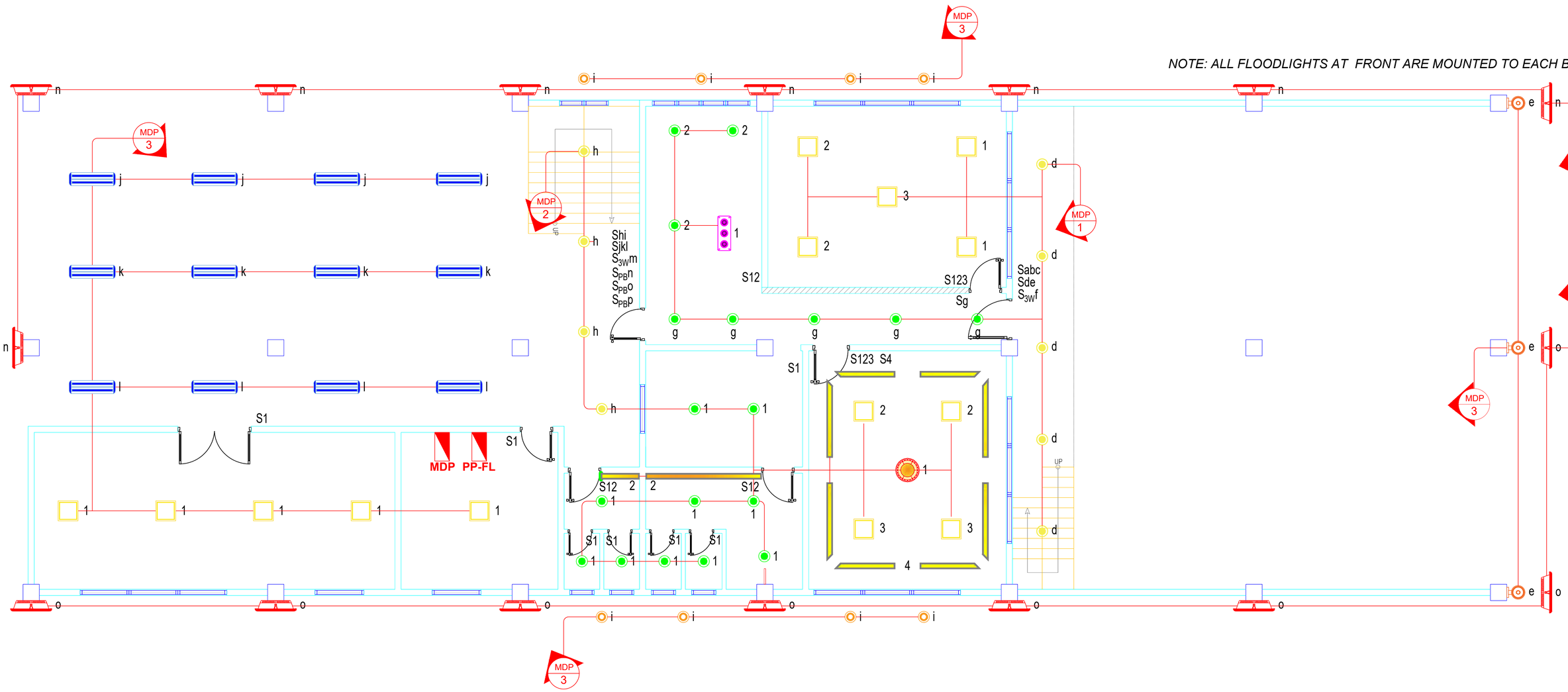
S_{a},S_{ab},S_{abc} S_{3wa} S_{wpa}	ELECTRICAL SWITCH 16A ONE GANG, TWO GANG & THREE GANG 1 WAY & 3 WAY (WIDE SERIES)
S_{ppa}	PUSH BUTTON SWITCH 30A 3.7 kW
CCTV EML EXL	CONVENIENCE OUTLET 20A ONE GANG & TWO GANG (WIDE SERIES)
S_{wpa} WP	WEATHERPROOF COVER FOR ELECTRICAL SWITCH & CONVENIENCE OUTLET
FM	FLOOR MOUNTED CONVENIENCE OUTLET ROUND TYPE 16A TWO GANG
	38W CEILING MOUNTED EXHAUST FAN 12" 230V, 60Hz, 564CFM, 54db(A), 32x18.5x32.5cm
	26W CEILING MOUNTED EXHAUST FAN 8" 230V, 60Hz, 289CFM, 48db(A), 26x17x25cm
	4"Ø PVC AIR VENTILATION EXHAUST CAP
	4"Ø AIR VENTILATION FLEXIBLE DUCT HOSE
	65W ORBIT FAN 18" (WHITE COLOR)
	65W WALL FAN 16" (WHITE COLOR)
S_{FAN}	ORBIT FAN SWITCH (WHITE COLOR)
ACCU	3TR FLOOR MOUNTED SPLIT TYPE ACU, 1Ø (INVERTER TYPE)
ACU OUTLET	ACU OUTLET, 30A, 1Ø (WHITE COLOR)
MDP	MAIN DISTRIBUTION PANEL (MDP)
PP-2F	POWER PANEL - 2ND FLOOR (PP-2F)
PP-FL	POWER PANEL - FLOOD LIGHTS (PP-FL)

NOTE: ALL MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THIS APPROVAL SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSPECTING SUCH MATERIALS FOR DEFECTS OR NON-CONFORMANCE WITH THE GIVEN SPECIFICATIONS. APPROPRIATE SAMPLES SHALL BE SUBMITTED PRIOR TO THE PURCHASE AND INSTALLATION OF SPECIFIC MATERIALS.

2 EE-01 LEGENDS & SYMBOLS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-01

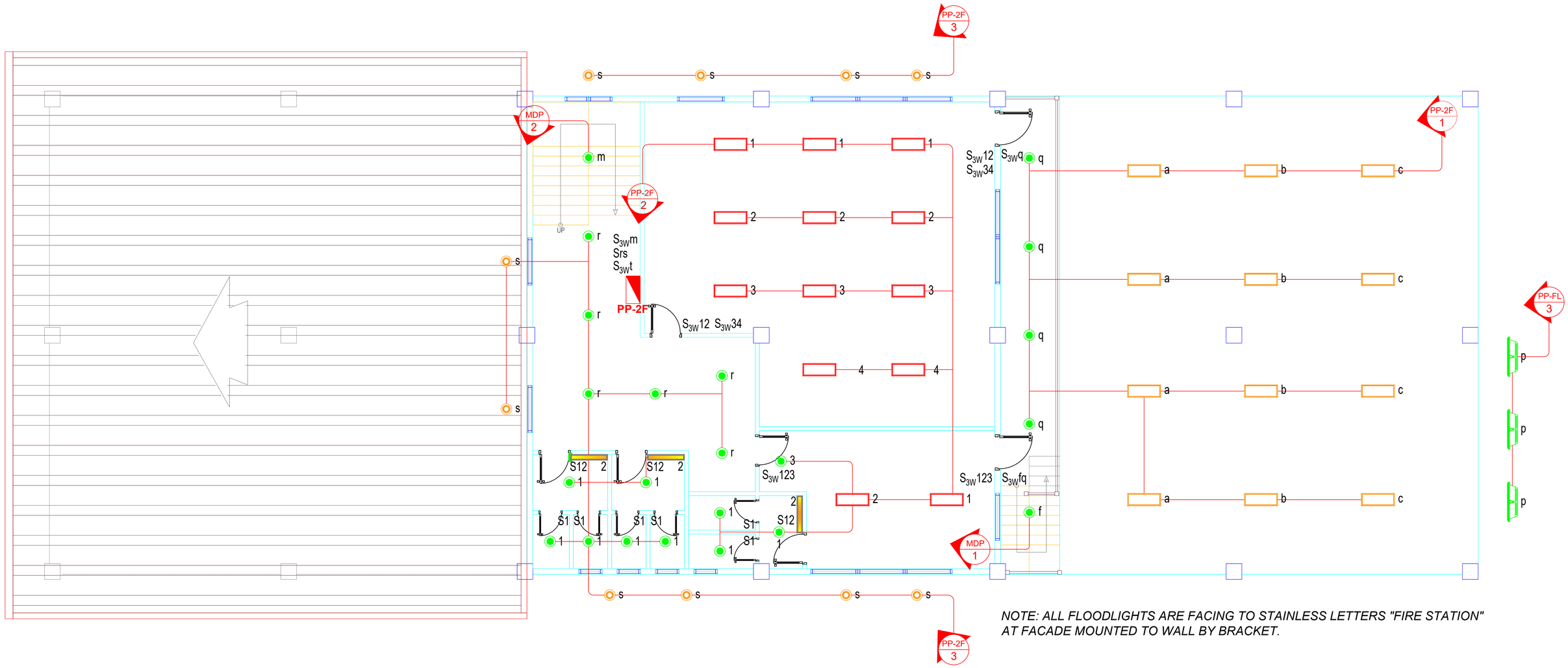
NOTE: ALL FLOODLIGHTS AT FRONT ARE MOUNTED TO EACH BEAM.



1 EE–02

GROUND FLOOR LIGHTING LAYOUT

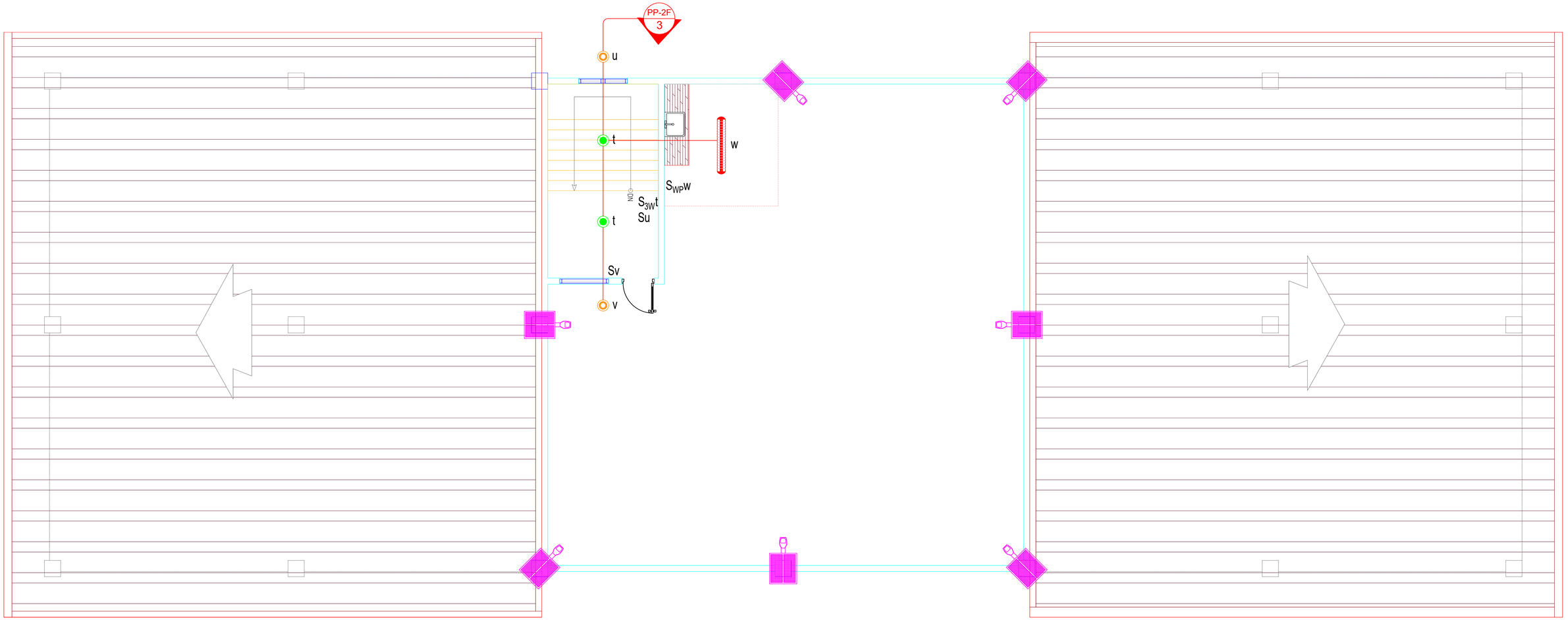
	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
	REHABILITATION OF FIRE STATION	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-02
	LOCATION: PEZA-CEZ, ROSARIO, CAVITE						



1 SECOND FLOOR LIGHTING LAYOUT

EE–03

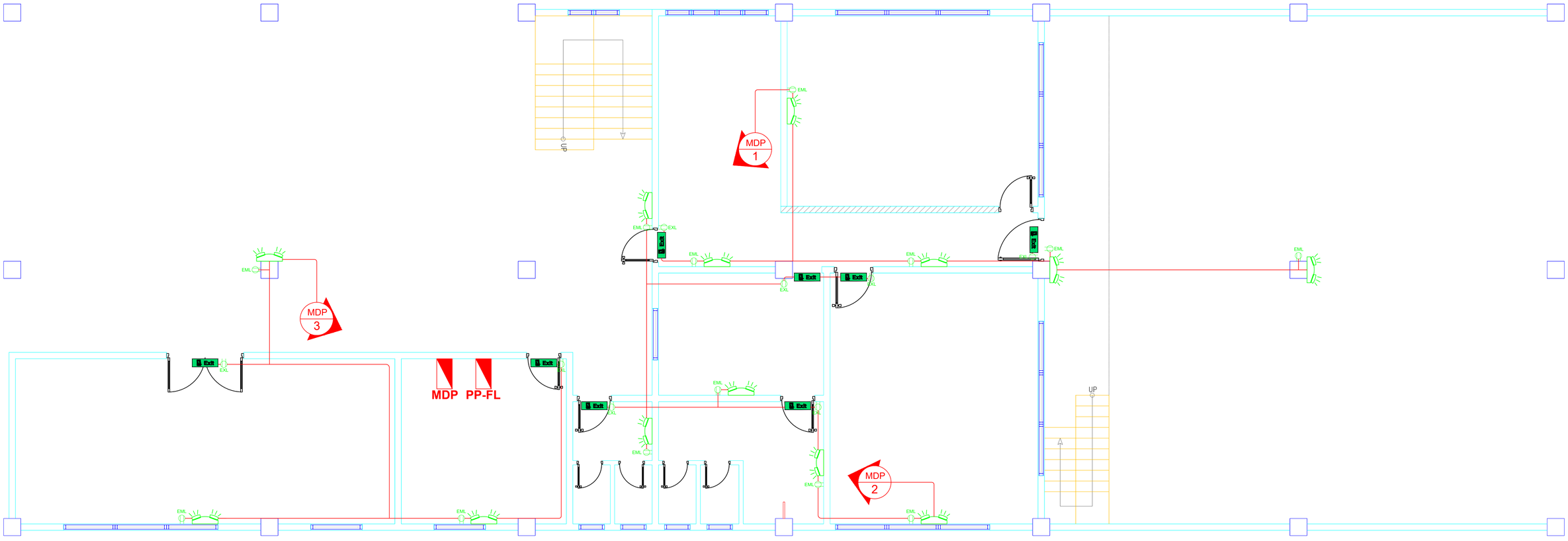
	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
	REHABILITATION OF FIRE STATION	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-03
	LOCATION: PEZA-CEZ, ROSARIO, CAVITE						



1 EE-04

ROOF DECK LIGHTING LAYOUT

	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
PHILIPPINE ECONOMIC ZONE AUTHORITY PEZA	**REHABILITATION OF FIRE STATION** LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-04

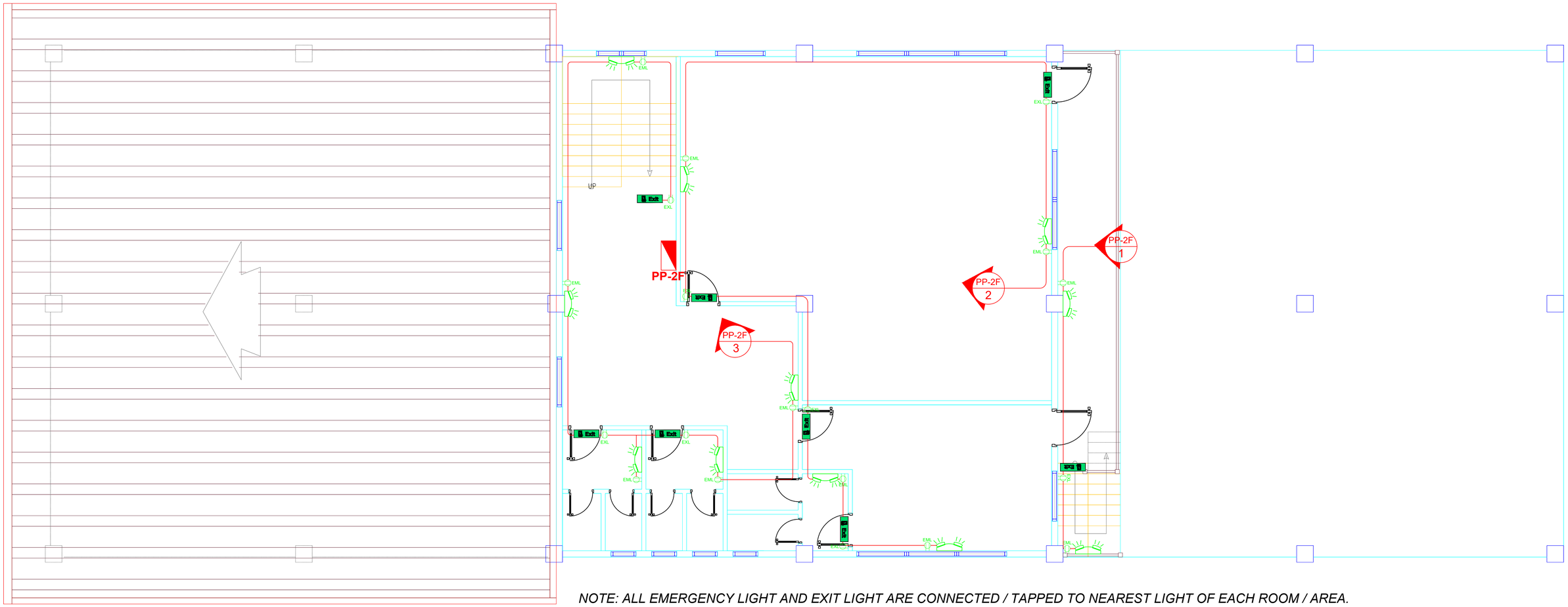


NOTE: ALL EMERGENCY LIGHT AND EXIT LIGHT ARE CONNECTED / TAPPED TO NEAREST LIGHT OF EACH ROOM / AREA.

1
EE–05

GROUND FLOOR EMERGENCY/EXIT LIGHT LAYOUT

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-05

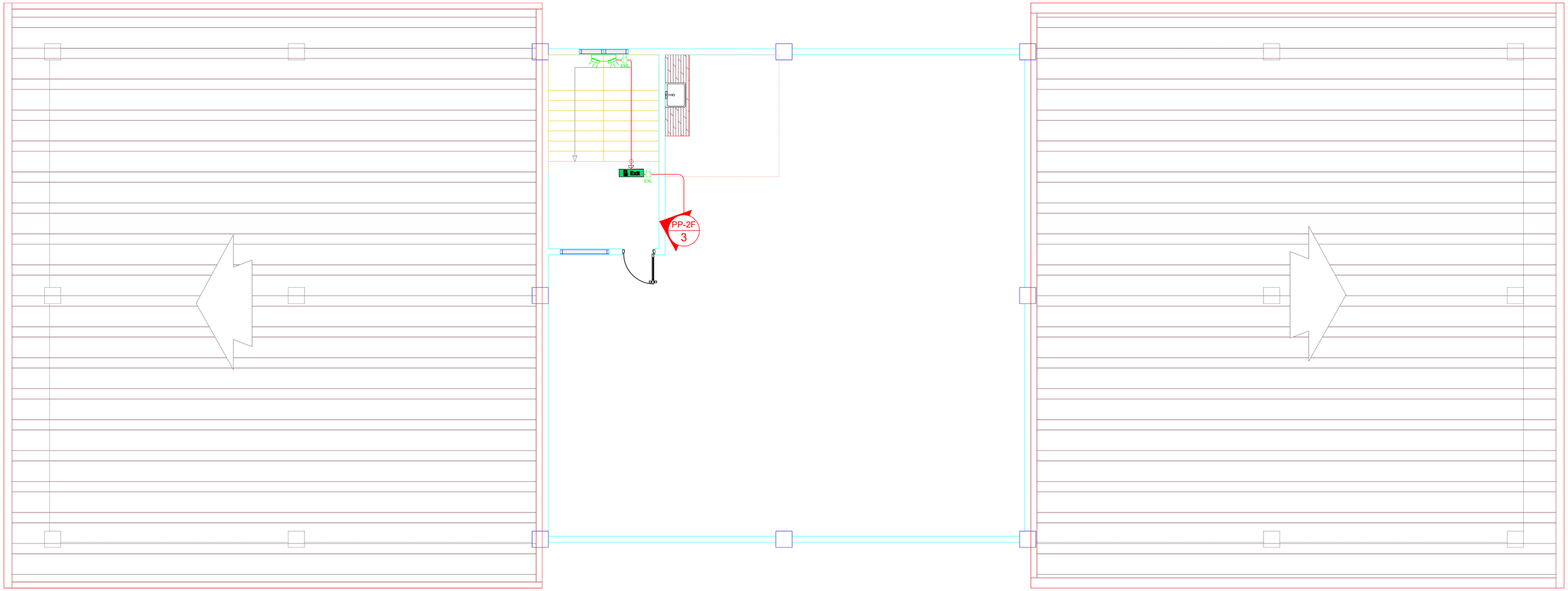


NOTE: ALL EMERGENCY LIGHT AND EXIT LIGHT ARE CONNECTED / TAPPED TO NEAREST LIGHT OF EACH ROOM / AREA.

1
EE–06

SECOND FLOOR EMERGENCY/EXIT LIGHT LAYOUT

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-06

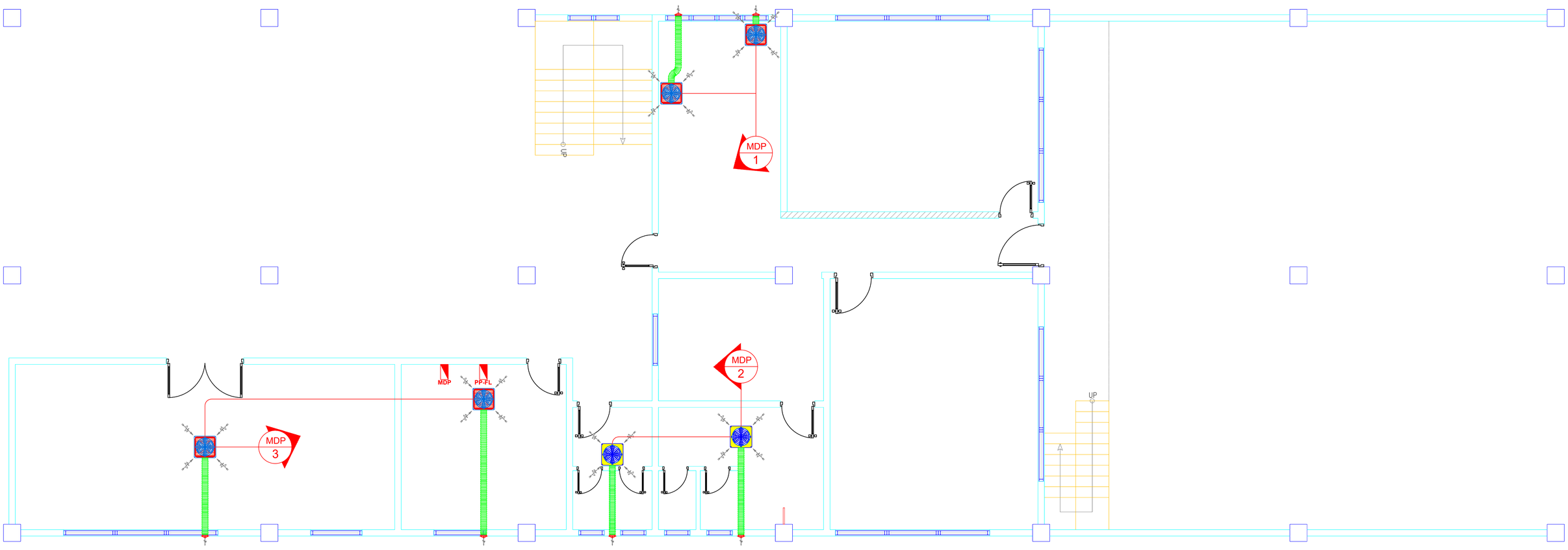


NOTE: ALL EMERGENCY LIGHT AND EXIT LIGHT ARE CONNECTED / TAPPED TO NEAREST LIGHT OF EACH ROOM / AREA.

1
EE–07

ROOF DECK EMERGENCY/EXIT LIGHT LAYOUT

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-07

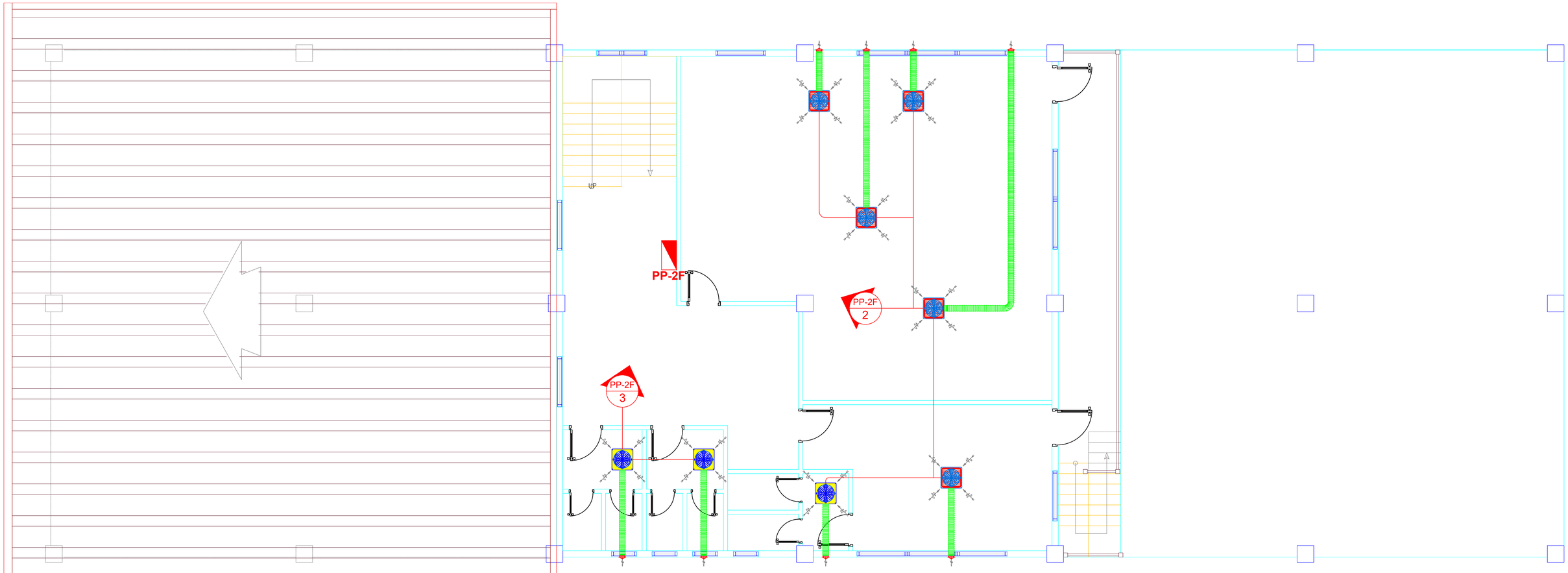


NOTE: ALL EXHAUST FAN UNIT ARE CONNECTED AND CONTROLLED BY NEAREST ELECTRICAL SWITCH OF EACH ROOM / AREA.

1
EE-08

GROUND FLOOR EXHAUST FAN LAYOUT

	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
PHILIPPINE ECONOMIC ZONE AUTHORITY PEZA	**REHABILITATION OF FIRE STATION** LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-08

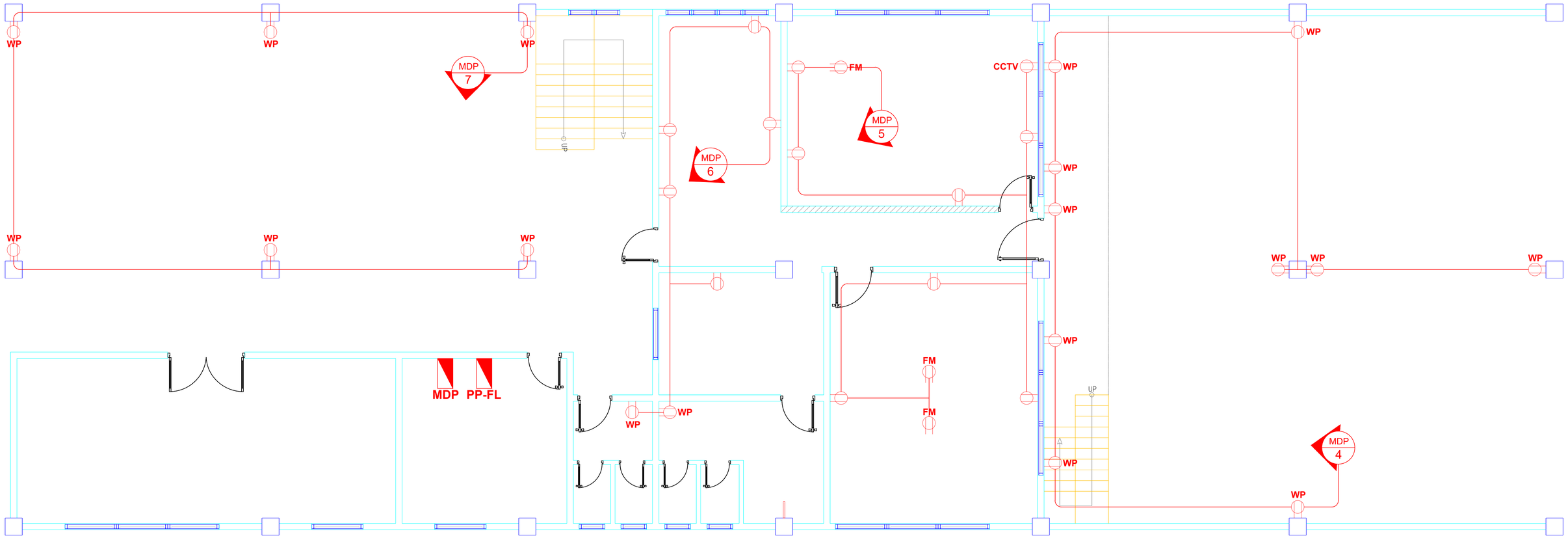


NOTE: ALL EXHAUST FAN UNIT ARE CONNECTED AND CONTROLLED BY NEAREST ELECTRICAL SWITCH OF EACH ROOM / AREA.

1
EE-09

SECOND FLOOR EXHAUST FAN LAYOUT

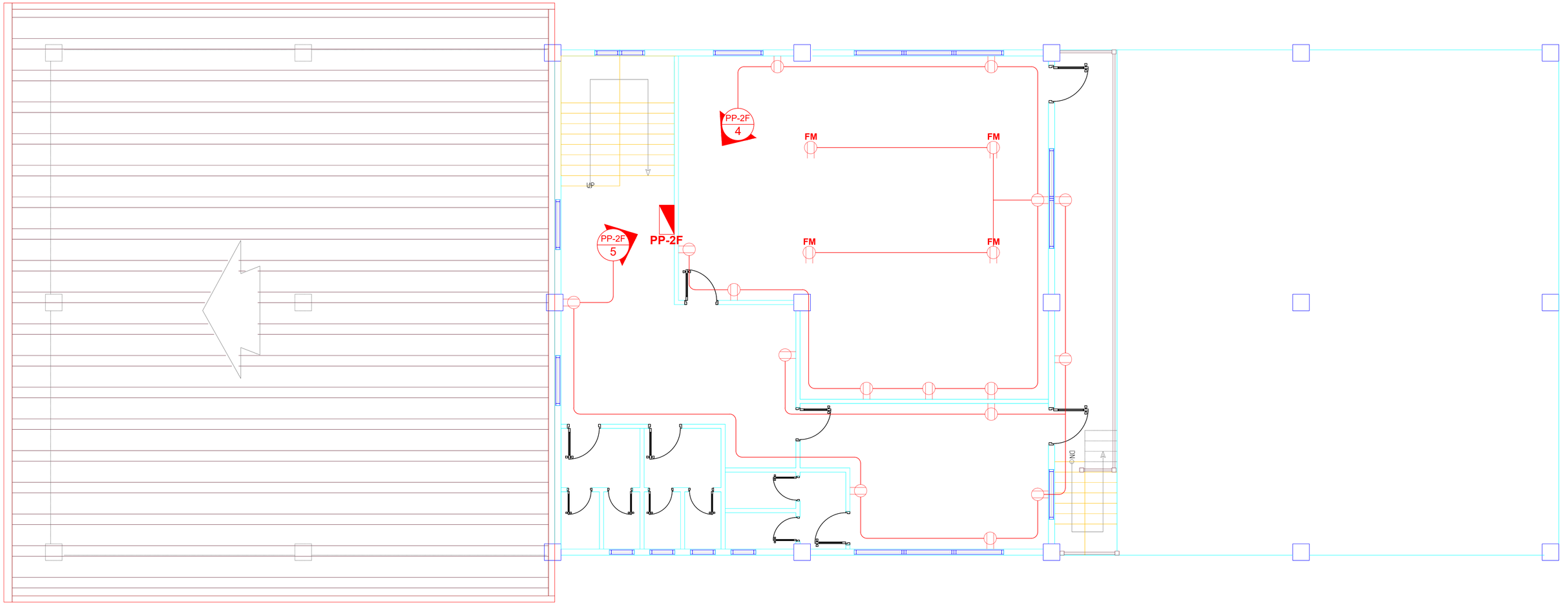
	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
	REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-09



1 / EE–10

GROUND FLOOR POWER LAYOUT

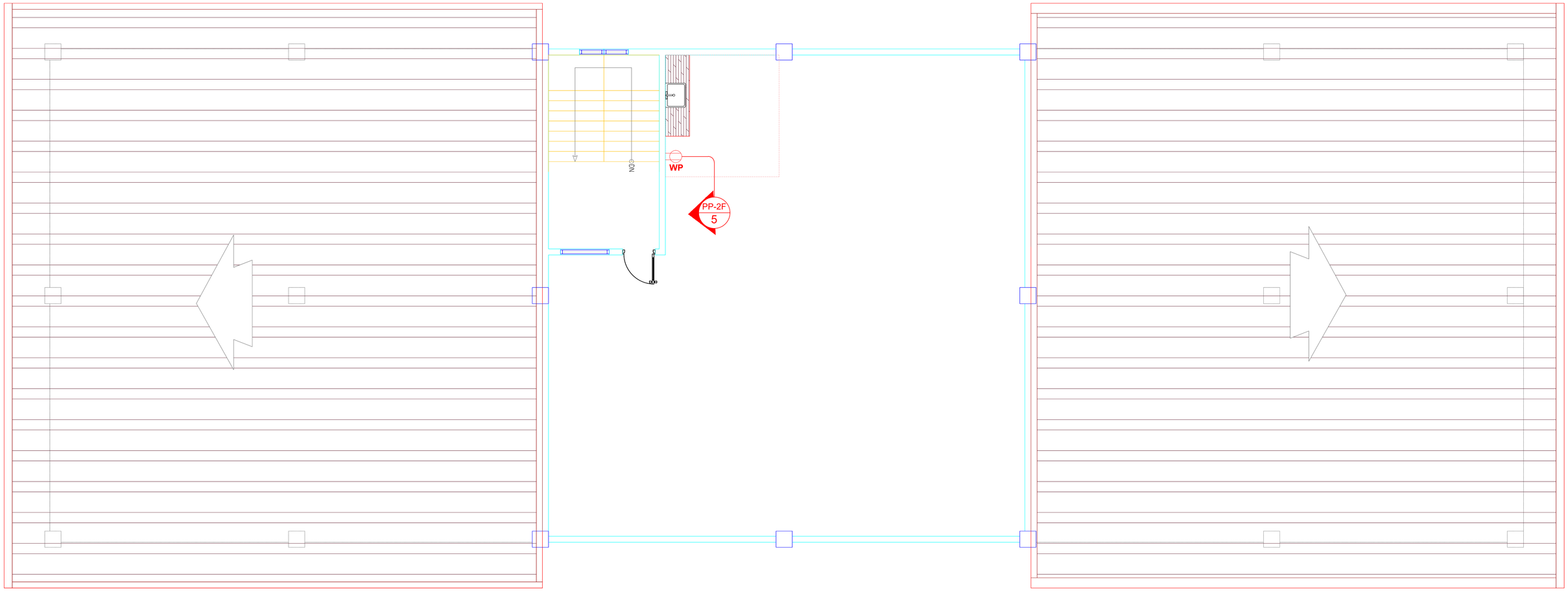
	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
PHILIPPINE ECONOMIC ZONE AUTHORITY PEZA	**REHABILITATION OF FIRE STATION** LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-10



1 / EE-11

SECOND FLOOR POWER LAYOUT

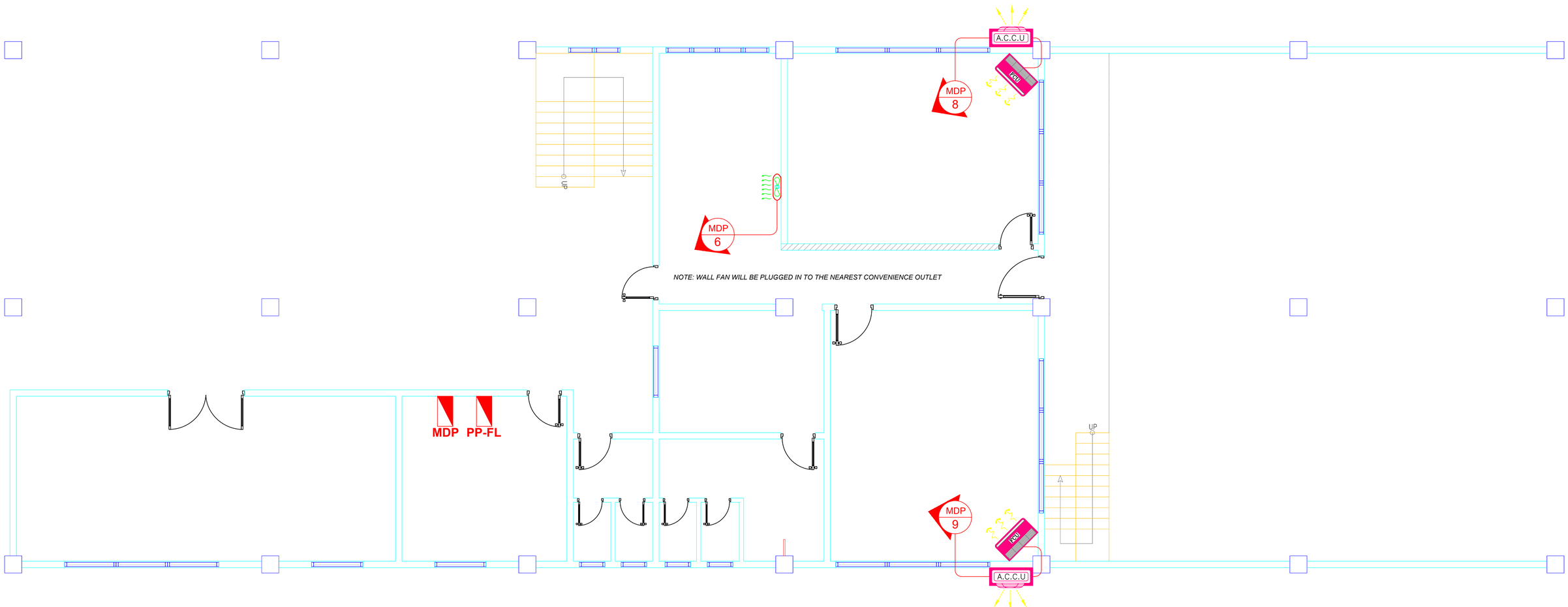
	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
PHILIPPINE ECONOMIC ZONE AUTHORITY PEZA	**REHABILITATION OF FIRE STATION** LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-11



1
EE-12

ROOF DECK POWER LAYOUT

	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
	REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-12

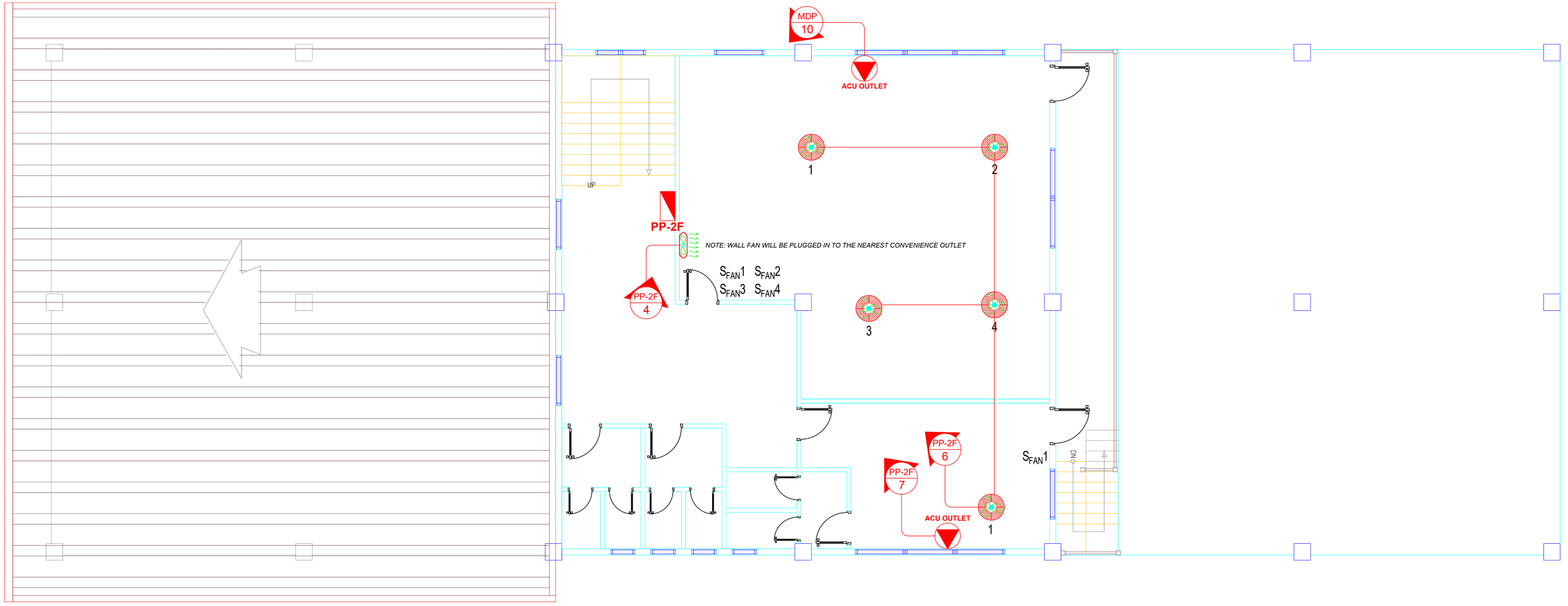


NOTE: ALL A.C.C.U SHALL HAVE A PROVISION OF 30AT ENCLOSED CIRCUIT BREAKER (ECB).

1
EE–13

GROUND FLOOR ACU/WALL FAN LAYOUT

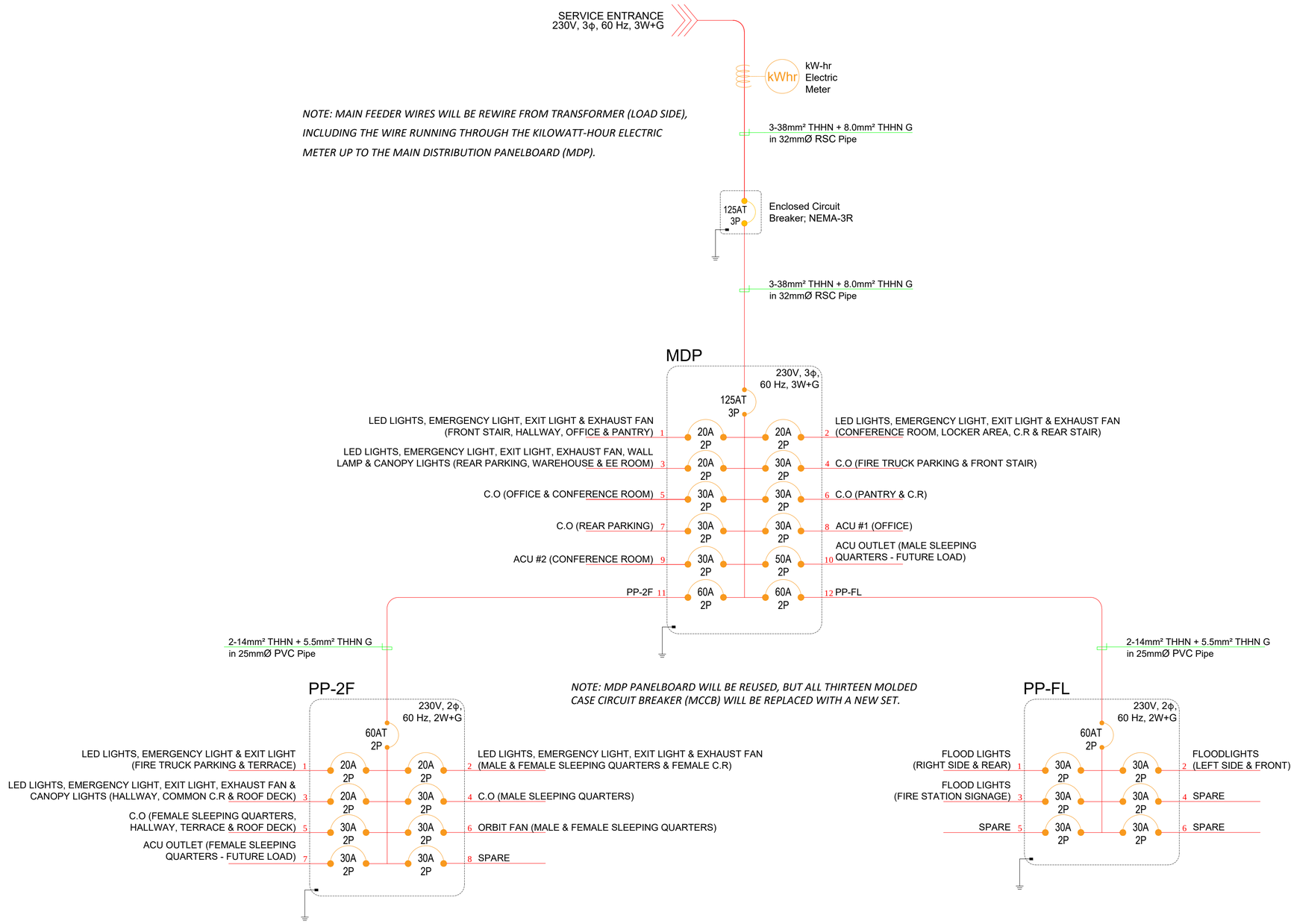
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-13



1
EE–14

SECOND FLOOR ACU/WALL FAN/ORBIT FAN LAYOUT

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-14



NOTE: MAIN FEEDER WIRES WILL BE REWIRE FROM TRANSFORMER (LOAD SIDE), INCLUDING THE WIRE RUNNING THROUGH THE KILOWATT-HOUR ELECTRIC METER UP TO THE MAIN DISTRIBUTION PANELBOARD (MDP).

1
EE–15

SINGLE LINE DIAGRAM

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-15

MDP

CKT No.	LOAD DESCRIPTION	VA RATING	VOLT	CURRENT (AMP) AB	BC	CA	3Ø	POLE	CB RATING	CONDUCTOR SIZE	CONDUIT
1	LED LIGHTS, EMERGENCY LIGHT, EXIT LIGHT & EXHAUST FAN (FRONT STAIR, HALLWAY, OFFICE & PANTRY)	544	230			2.37		2	**20 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
2	LED LIGHTS, EMERGENCY LIGHT, EXIT LIGHT & EXHAUST FAN (CONFERENCE ROOM, LOCKER AREA, C.R & REAR STAIR)	602	230		2.62			2	**20 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
3	LED LIGHTS, EMERGENCY LIGHT, EXIT LIGHT, EXHAUST FAN, WALL LAMP & CANOPY LIGHTS (REAR PARKING, WAREHOUSE & EE ROOM)	908	230		3.95			2	**20 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
4	C.O (FIRE TRUCK PARKING & FRONT STAIR)	3600	230			15.65		2	**30 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
5	C.O (OFFICE & CONFERENCE ROOM)	3,960	230			17.22		2	**30 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
6	C.O (PANTRY & C.R)	2,160	230	9.39				2	**30 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
7	C.O (REAR PARKING)	2,160	230	9.39				2	**30 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
8	ACU #1 (OFFICE)	4,662.50	230			20.27		2	**30 A.T.**	2-5.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
9	ACU #2 (CONFERENCE ROOM)	4,662.50	230	20.27				2	**30 A.T.**	2-5.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
10	ACU OUTLET (MALE SLEEPING QUARTERS - FUTURE LOAD)	1,000	230			4.35		2	**50 A.T.**	2-8.0mm² THHN + 3.5mm² THHN G	20mm Ø PVC
11	PP-2F	12,205.25	230		53.07			2	**60 A.T.**	2-14mm² THHN + 5.5mm² THHN G	25mm Ø PVC
12	PP-FL	4,750	230	20.65				2	**60 A.T.**	2-14mm² THHN + 5.5mm² THHN G	25mm Ø PVC
TOTAL		**41,214.25**	**230**	**59.71**	**59.63**	**59.85**		**3**	**125 A.T.**	**3-38mm² THHN + 8.0mm² THHN G**	**32mm Ø RSC**

		MAIN CIRCUIT BREAKER PROTECTION:
IT =	[(59.85 A x 1.732) + (20.27 A x 0.25%)] x 125%	**125AT, 3P, 230V, 60Hz**
IT =	135.91 A	
Main Feeder Conductors:		
3 - 38mm² THHN + 8.0mm² THHN G in 32mm Ø RSC Pipe		

PP-FL

CKT. NO.	LOAD DESCRIPTION	VA RATING	VOLT	CURRENT (AMP)	POLE	CB RATING	CONDUCTOR SIZE	CONDUIT
1	FLOOD LIGHTS (RIGHT SIDE & REAR)	800	230	3.48	2	**30 A.T.**	2-5.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
2	FLOODLIGHTS (LEFT SIDE & FRONT)	800	230	3.48	2	**30 A.T.**	2-5.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
3	FLOOD LIGHTS (FIRE STATION SIGNAGE)	150	230	0.65	2	**30 A.T.**	2-5.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
4	SPARE	1000	230	4.35	2	**30 A.T.**		20mm Ø PVC
5	SPARE	1000	230	4.35	2	**30 A.T.**		20mm Ø PVC
6	SPARE	1000	230	4.35	2	**30 A.T.**		20mm Ø PVC
TOTAL		**4,750**	**230**	**20.65**	**2**	**60 A.T.**	**2-14mm² THHN + 5.5mm² THHN G**	**25mm Ø PVC**

IT =	4,750 VA / 230 V	**MAIN CIRCUIT BREAKER PROTECTION:**
IT =	20.65 A x 125%	**60AT, 2P, 230V, 60Hz**
IT =	25.81 A	
Main Feeder Conductors:		
2 - 14mm² THHN + 5.5mm² THHN G in 25mm Ø PVC Pipe		

PP-2F

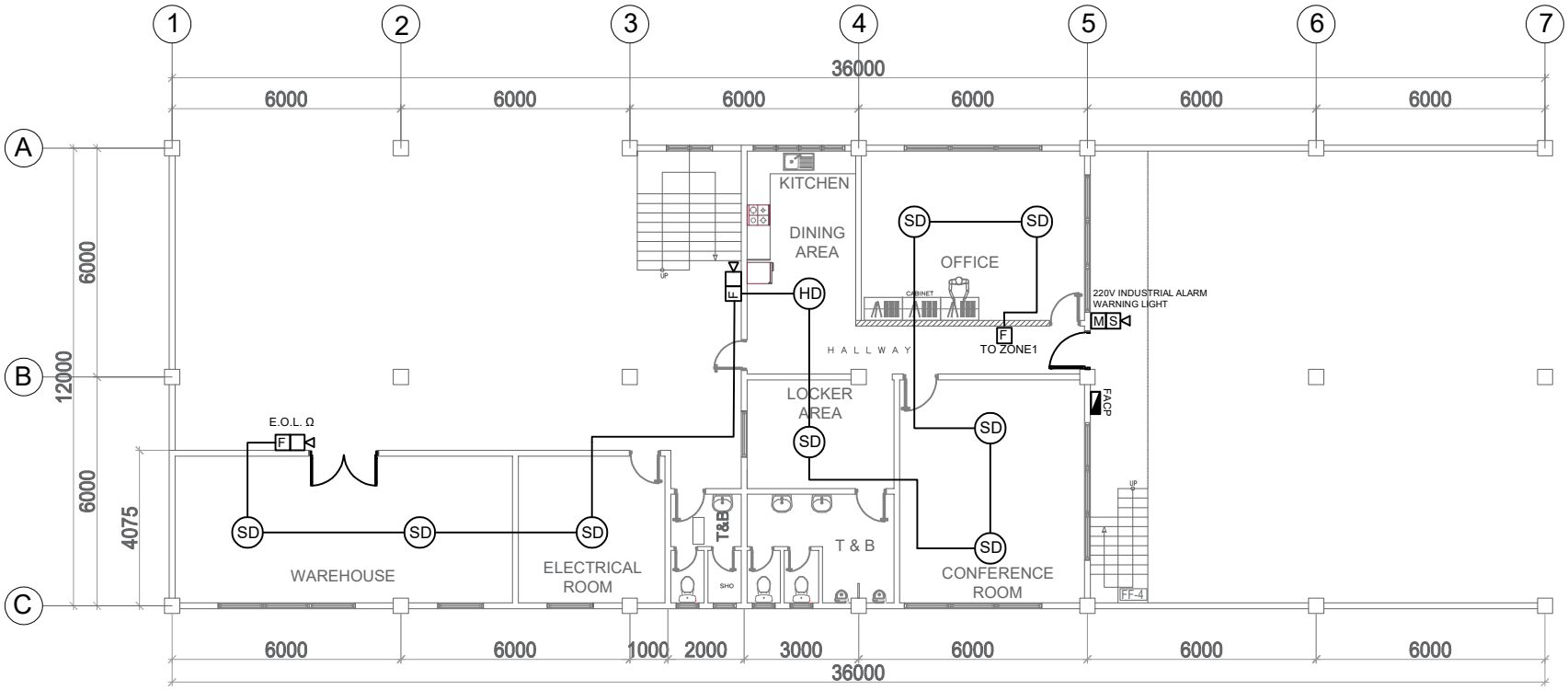
CKT. NO.	LOAD DESCRIPTION	VA RATING	VOLT	CURRENT (AMP)	POLE	CB RATING	CONDUCTOR SIZE	CONDUIT
1	LED LIGHTS, EMERGENCY LIGHT & EXIT LIGHT (FIRE TRUCK PARKING & TERRACE)	665	230	2.89	2	**20 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
2	LED LIGHTS, EMERGENCY LIGHT, EXIT LIGHT & EXHAUST FAN	956	230	4.16	2	**20 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
3	LED LIGHTS, EMERGENCY LIGHT, EXIT LIGHT, EXHAUST FAN & CANOPY LIGHTS (HALLWAY, COMMON C.R & ROOF	618	230	2.69	2	**20 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
4	C.O (MALE SLEEPING QUARTERS)	4,320	230	18.78	2	**30 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
5	C.O (FEMALE SLEEPING QUARTERS, HALLWAY, TERRACE & ROOF DECK)	3,240	230	14.09	2	**30 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
6	ORBIT FAN (MALE & FEMALE SLEEPING QUARTERS)	406.25	230	1.77	2	**30 A.T.**	2-3.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
7	ACU OUTLET (FEMALE SLEEPING QUARTERS - FUTURE LOAD)	1,000	230	4.35	2	**30 A.T.**	2-5.5mm² THHN + 3.5mm² THHN G	20mm Ø PVC
8	SPARE	1,000	230	4.35	2	**30 A.T.**		20mm Ø PVC
TOTAL		**12,205.25**	**230**	**53.07**	**2**	**60 A.T.**	**2-14mm² THHN + 5.5mm² THHN G**	**25mm Ø PVC**

IT =	12,205.25 VA / 230V	**MAIN CIRCUIT BREAKER PROTECTION:**
IT =	53.07 A x 125%	**60AT, 2P, 230V, 60Hz**
IT =	66.33 A	
Main Feeder Conductors:		
2 - 14mm² THHN + 5.5mm² THHN G in 25mm Ø PVC Pipe		

1
EE–16

SCHEDULE OF LOADS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. R-JAY C. QUINIQUINI** ELECTRICAL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RCQ CHECKED BY	EE-16



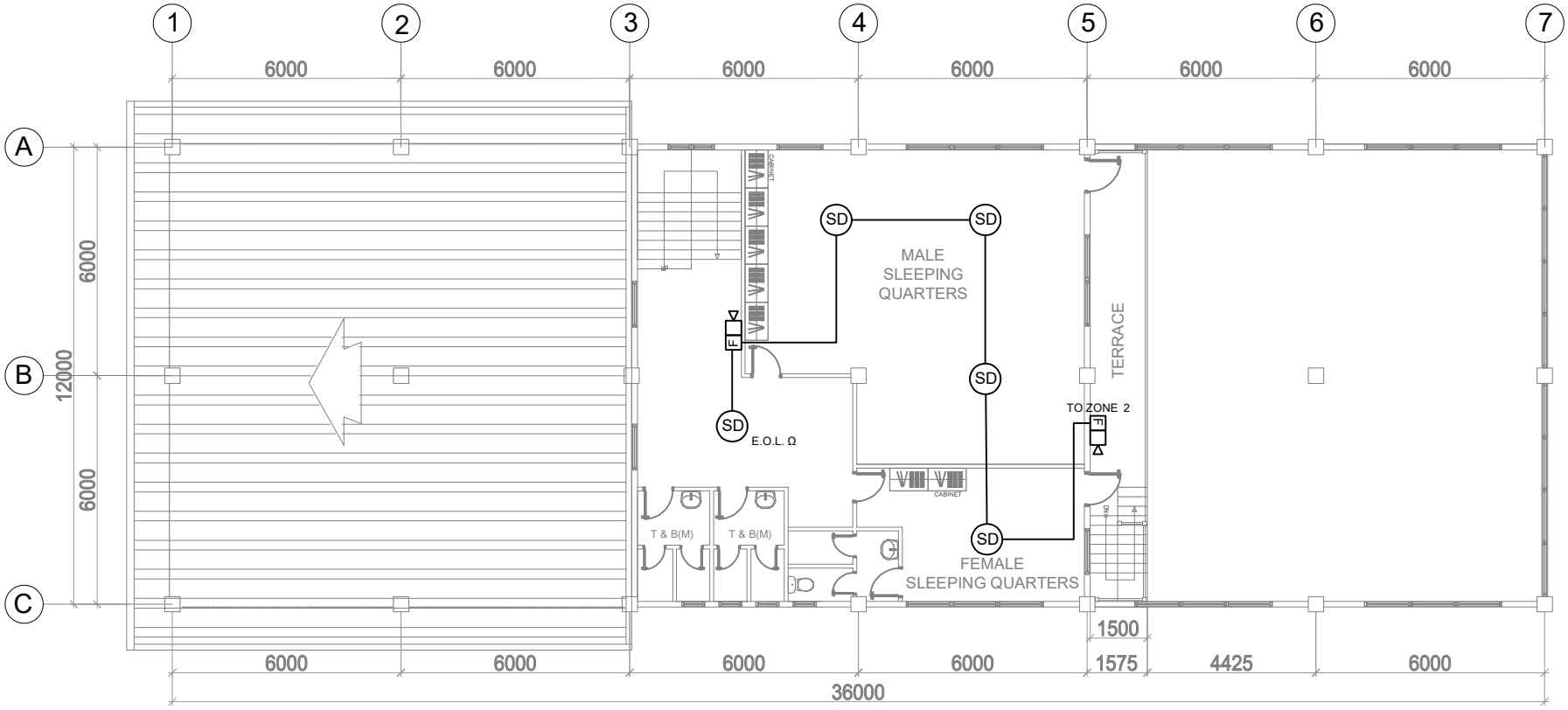
LEGEND

- SD — Smoke Detector
- HD — Heat Detector
- Fire Alarm Strobe Sounder
- S — Industrial Alarm warning light
- F — Manual Pull Station
- M — Manual Pull Station (220V)
- Fire Alarm Control Panel

1
FDAS–01

FDAS DEVICE LAYOUT - GROUND FLOOR

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. EHDIESON T. LUIS** ELECTRONICS ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	ETL CHECKED BY	FDAS-01



LEGEND

- SD — Smoke Detector
- HD — Heat Detector
- Fire Alarm Strobe Sounder
- S — Industrial Alarm warning light
- F — Manual Pull Station
- M — Manual Pull Station (220V)
- Fire Alarm Control Panel

1 / FDAS-02

FDAS DEVICE LAYOUT - SECOND FLOOR

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. EHDIESON T. LUIS** ELECTRONICS ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	ETL CHECKED BY	FDAS-02

GENERAL NOTES

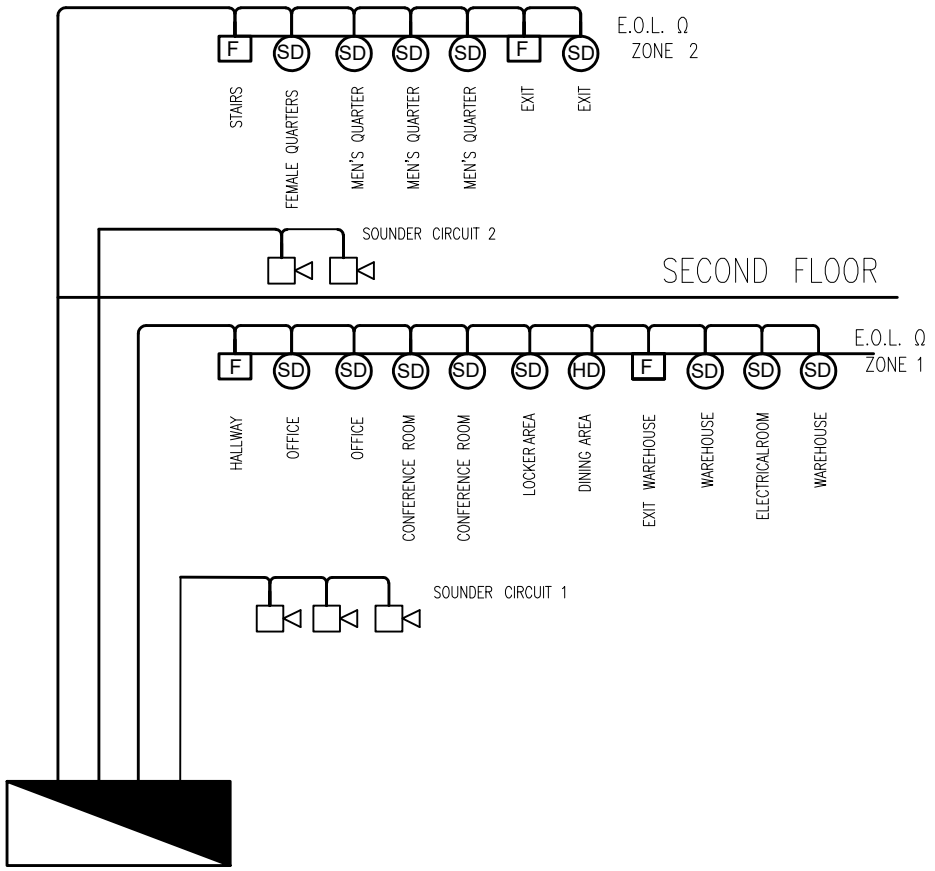
WORKMANSHIP TO COMPLY WITH INDUSTRY STANDARDS AND APPROVES METHODOLOGIES IN APPLICABLE MANUALS, HANDBOOKS, LATEST EDITION OF THE PHILIPPINE ELECTRONICS CODE, BUREAU OF FIRE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITY.

ALL MATERIALS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS AND PRINTER WARNING FOR THE HANDLING AND INSTALLATION OF ALL PRE-MANUFACTURED PRODUCTS, AND CONTRACT DOCUMENTS.

CONTRACTOR SHALL MAINTAIN A NEAT AND DEBRIS FREE SITE, UPON COMPLETION OF ANY CONSTRUCTION OPERATION (INCLUDING END OF SHIFT OR END OF TEMPORARY ACTIVITY).

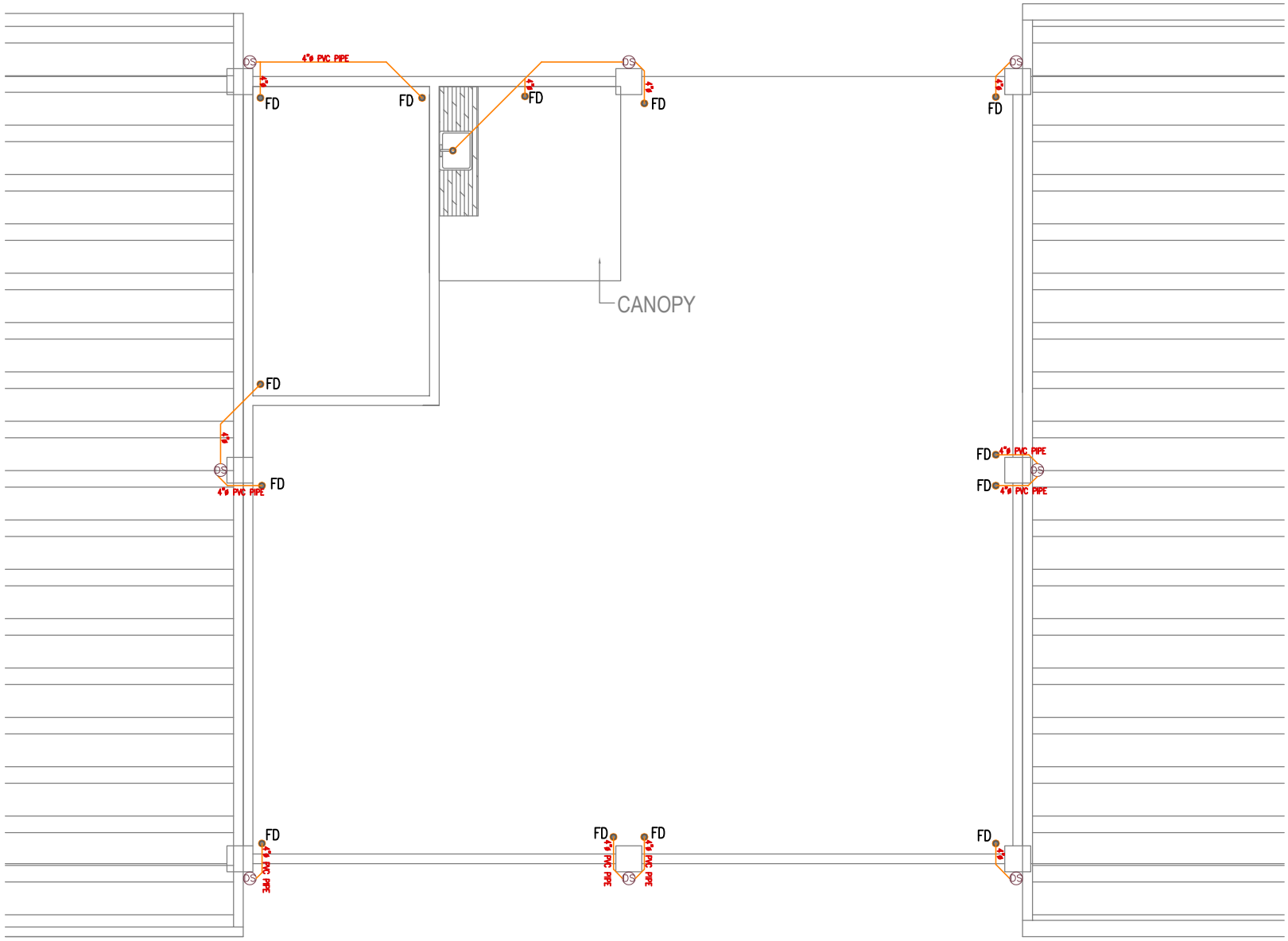
CONTRACTOR SHALL LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITION. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOW FOR BETTER ACCESSIBILITY WHEN ACCEPTED BY THE PROJECT PROPONENT.

1. USE NOT LESS THAN 16 AWG FIRE ALARM CABLE IN 15-20mmø IMC/EMT OR PVC IF EMBEDDED
2. USE 3.5 mm2 WIRE FOR FIRE ALARM CONTROL PANEL PRIMARY WIRING.



1 FDAS-03 FDAS SCHEMATIC DIAGRAM

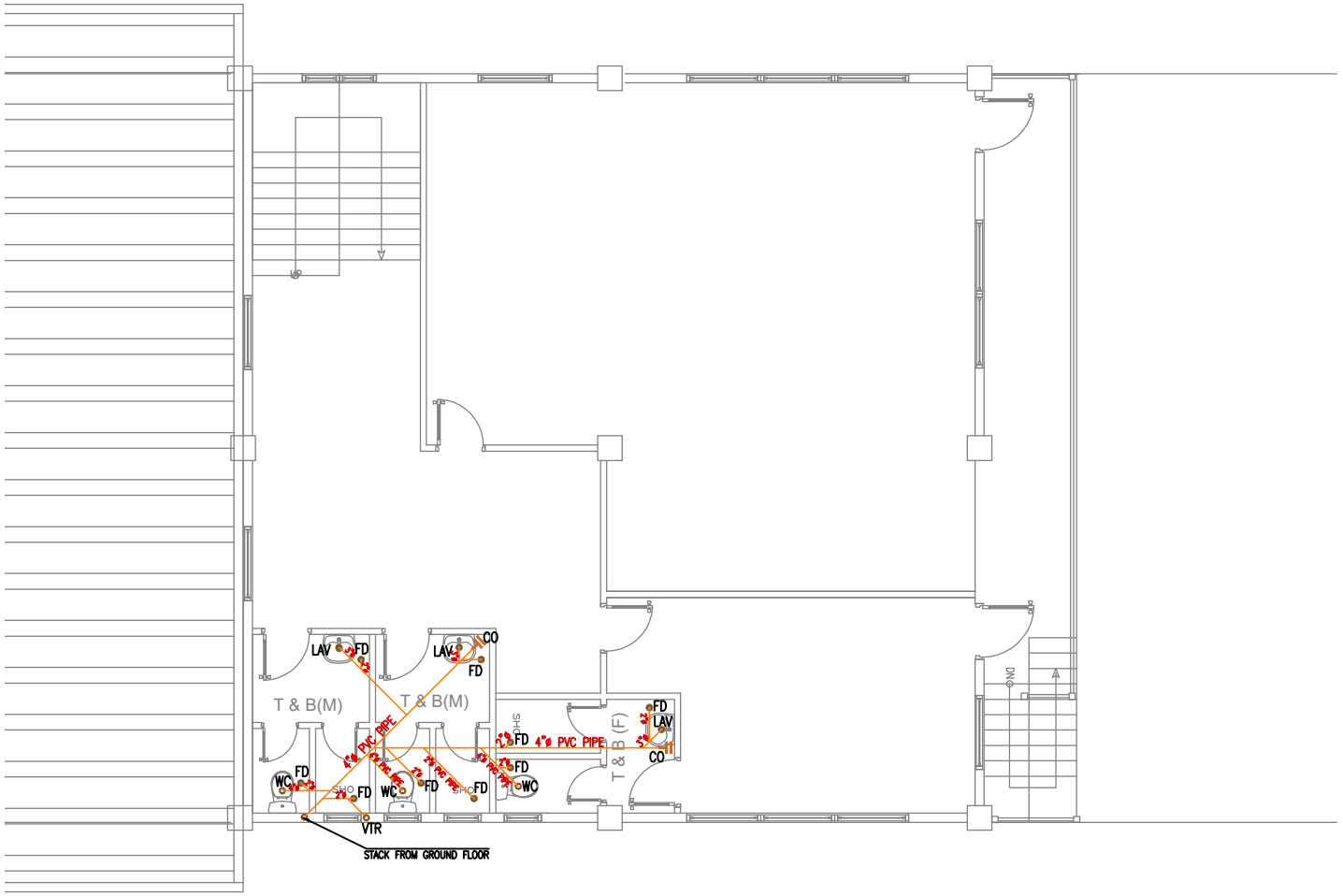
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. EHDIESON T. LUIS** ELECTRONICS ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	ETL CHECKED BY	FDAS-03



ROOF DECK

1 / P–03 SEWERLINE LAYOUT PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	P-03

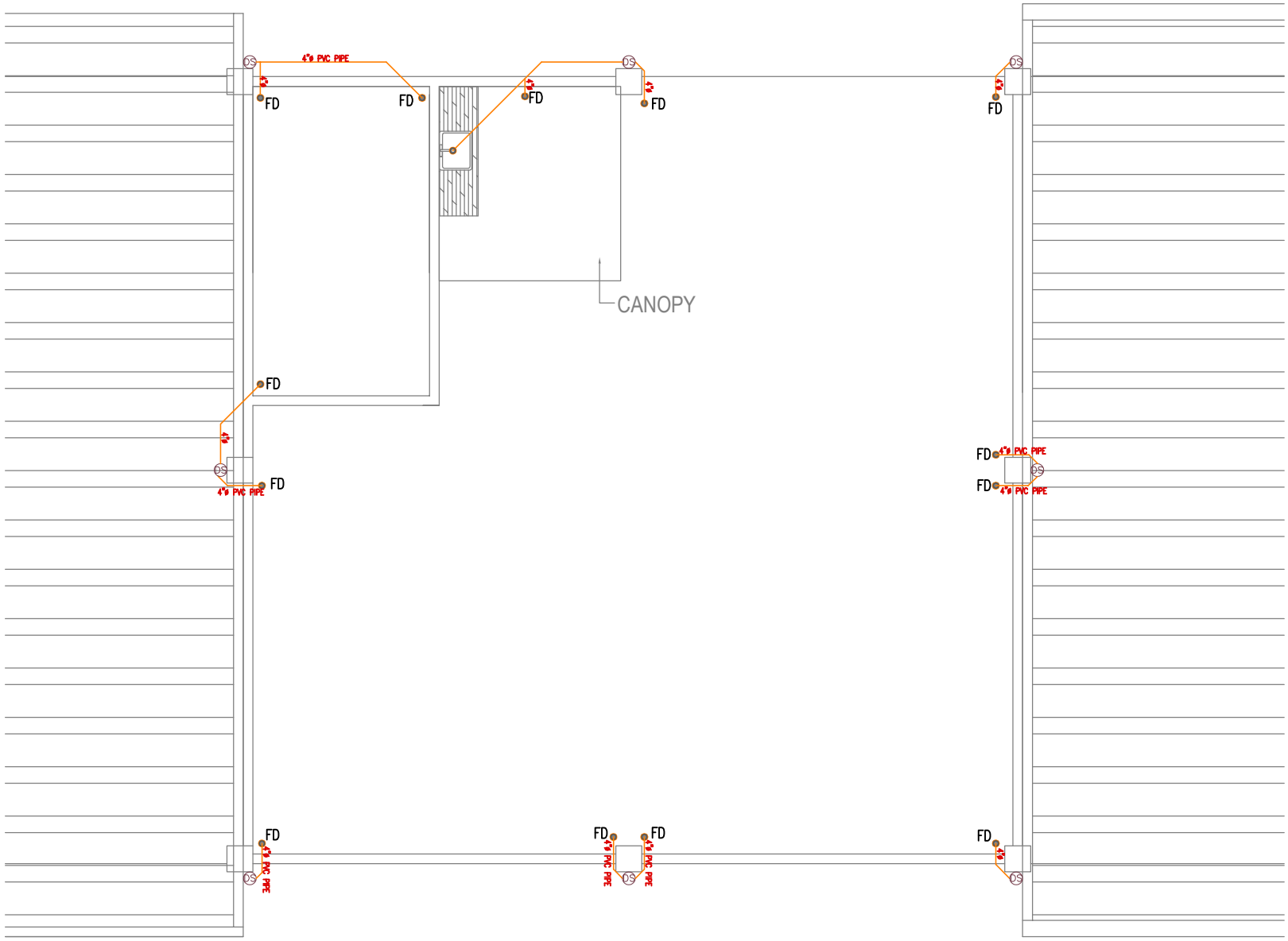


SECOND FLOOR

1 / P-02

SEWERLINE LAYOUT PLAN

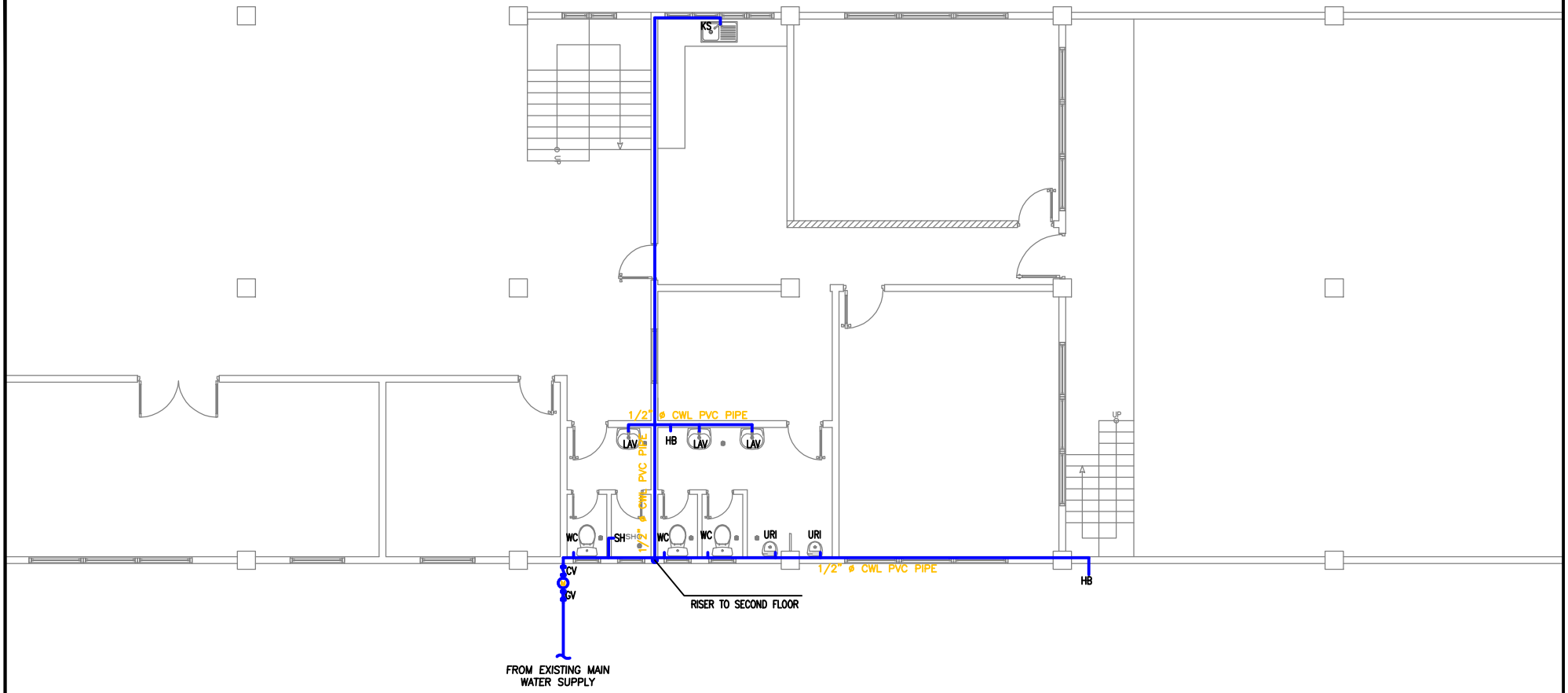
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	P-02



ROOF DECK

1 / P–03 SEWERLINE LAYOUT PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	P-03

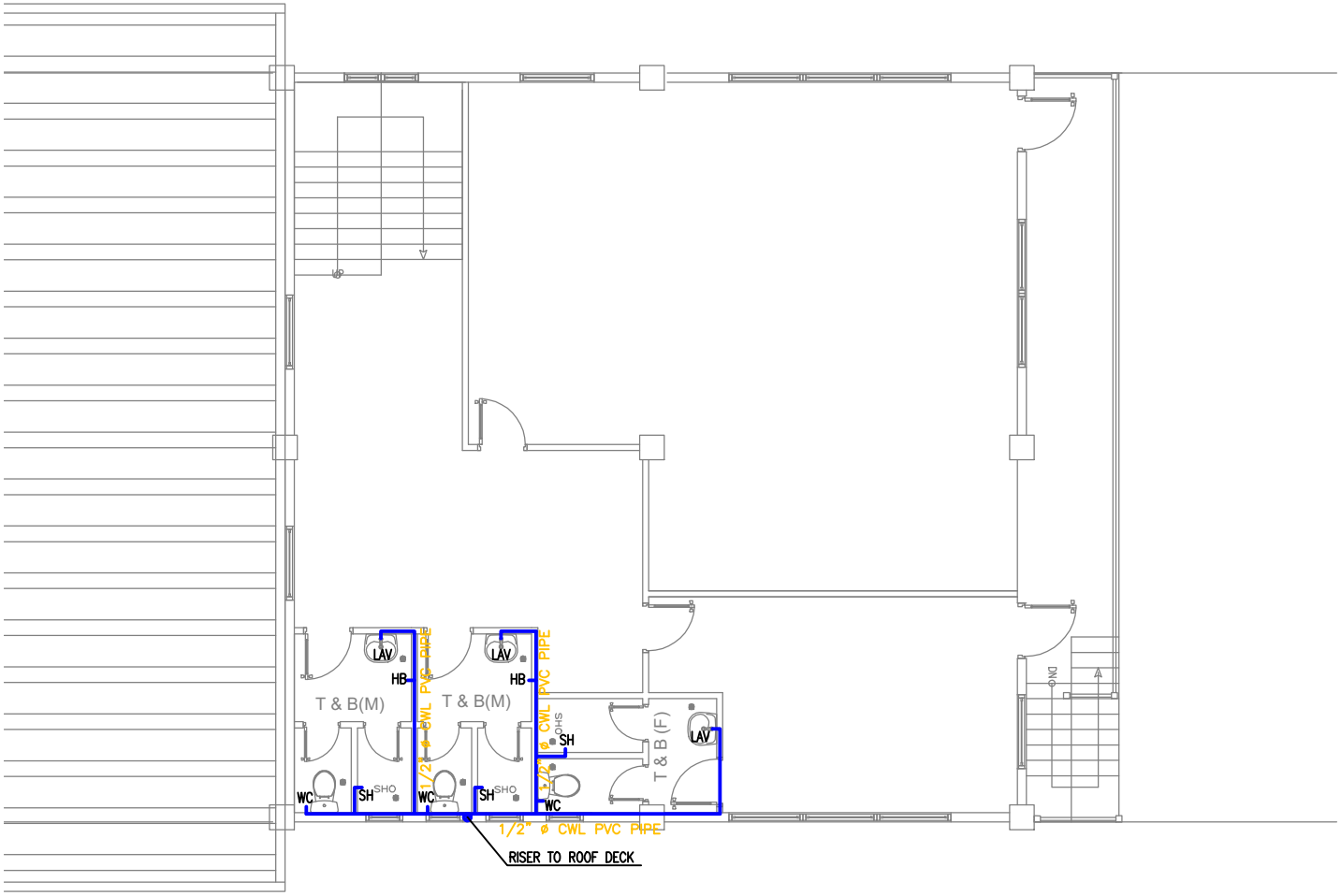


GROUND FLOOR

WATERLINE LAYOUT PLAN

1
P-04

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	P-04

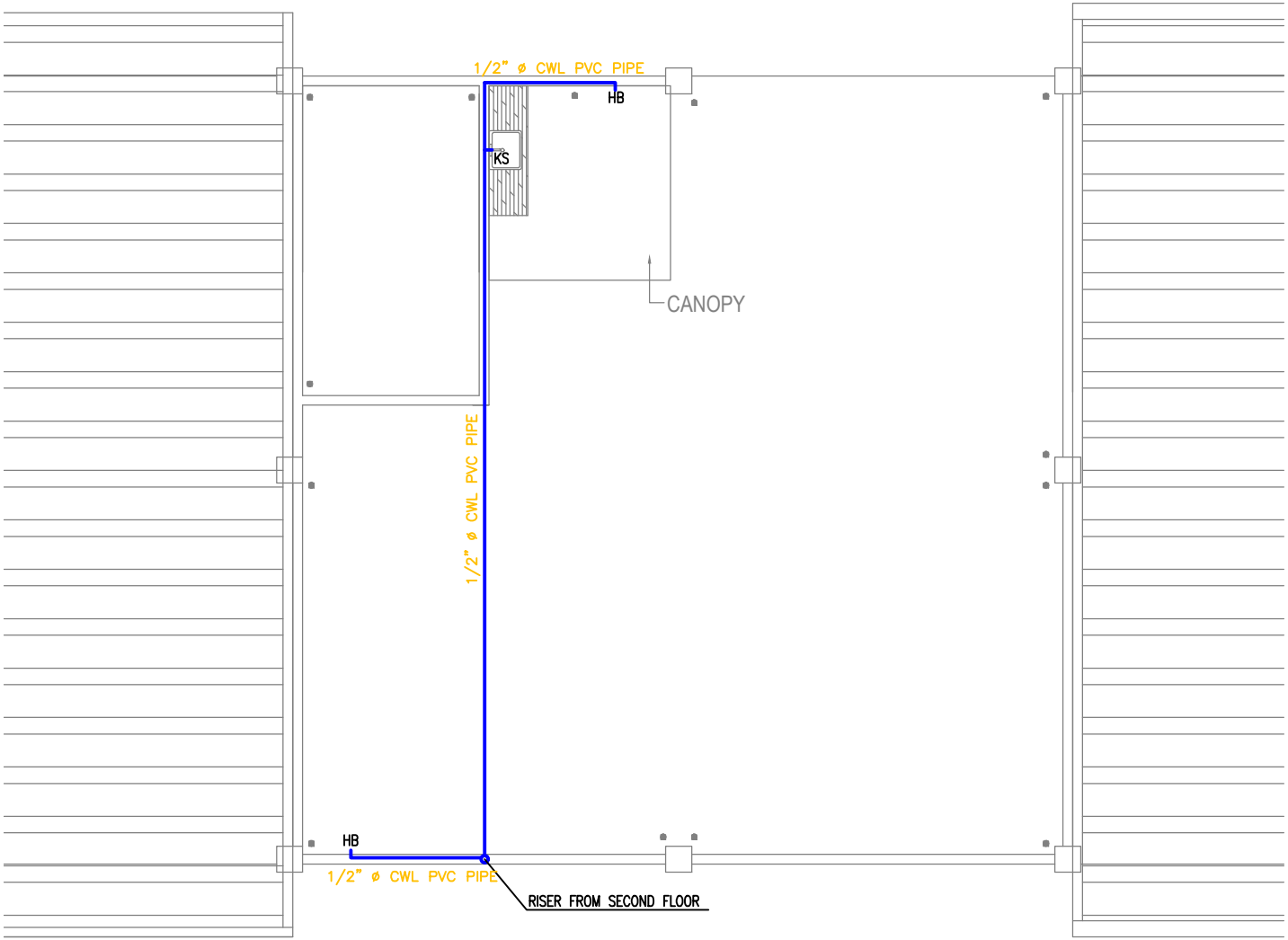


SECOND FLOOR

WATERLINE LAYOUT PLAN

1 / P-05

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	P-05

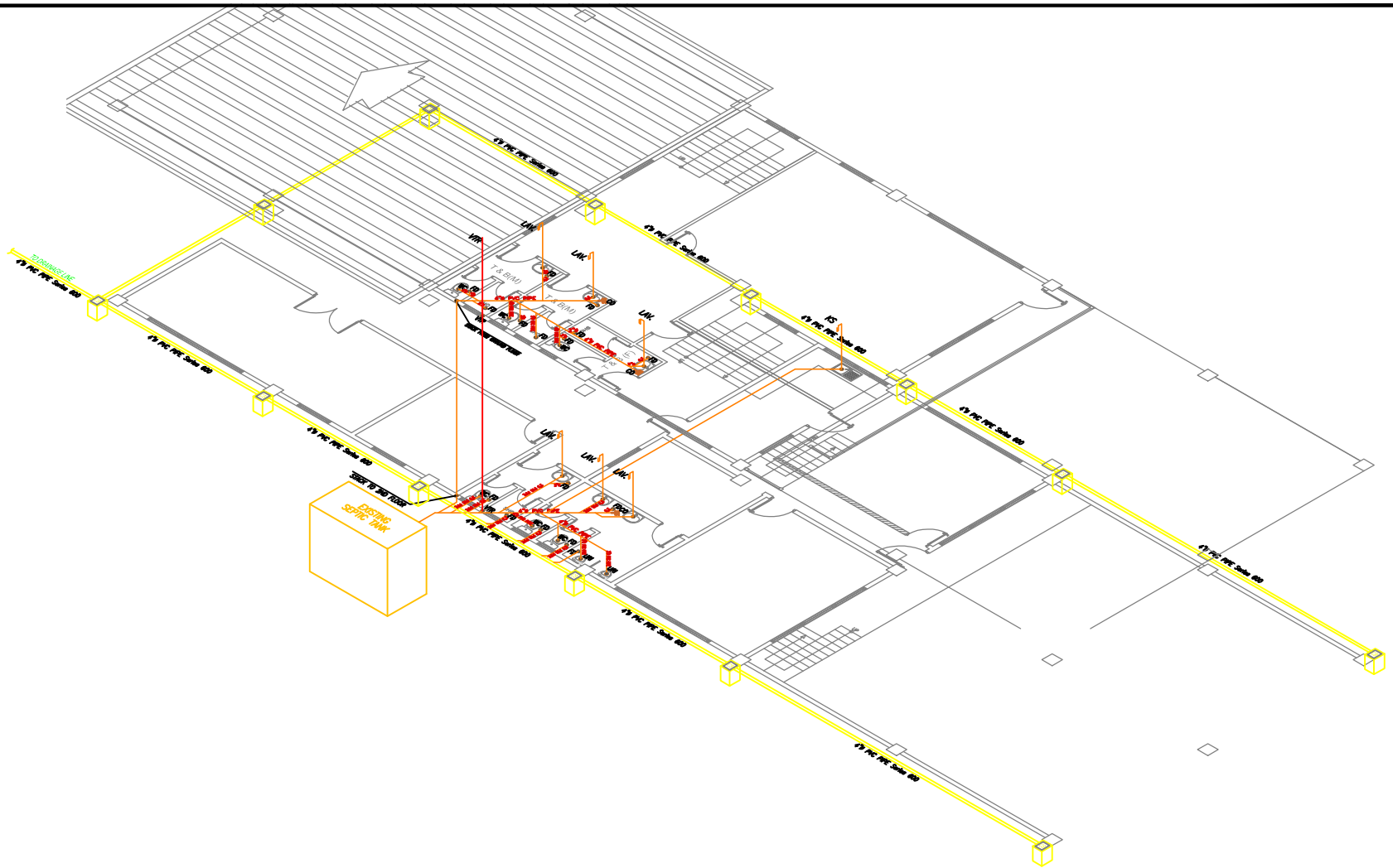


ROOF DECK

1 / P–06

SEWERLINE LAYOUT PLAN

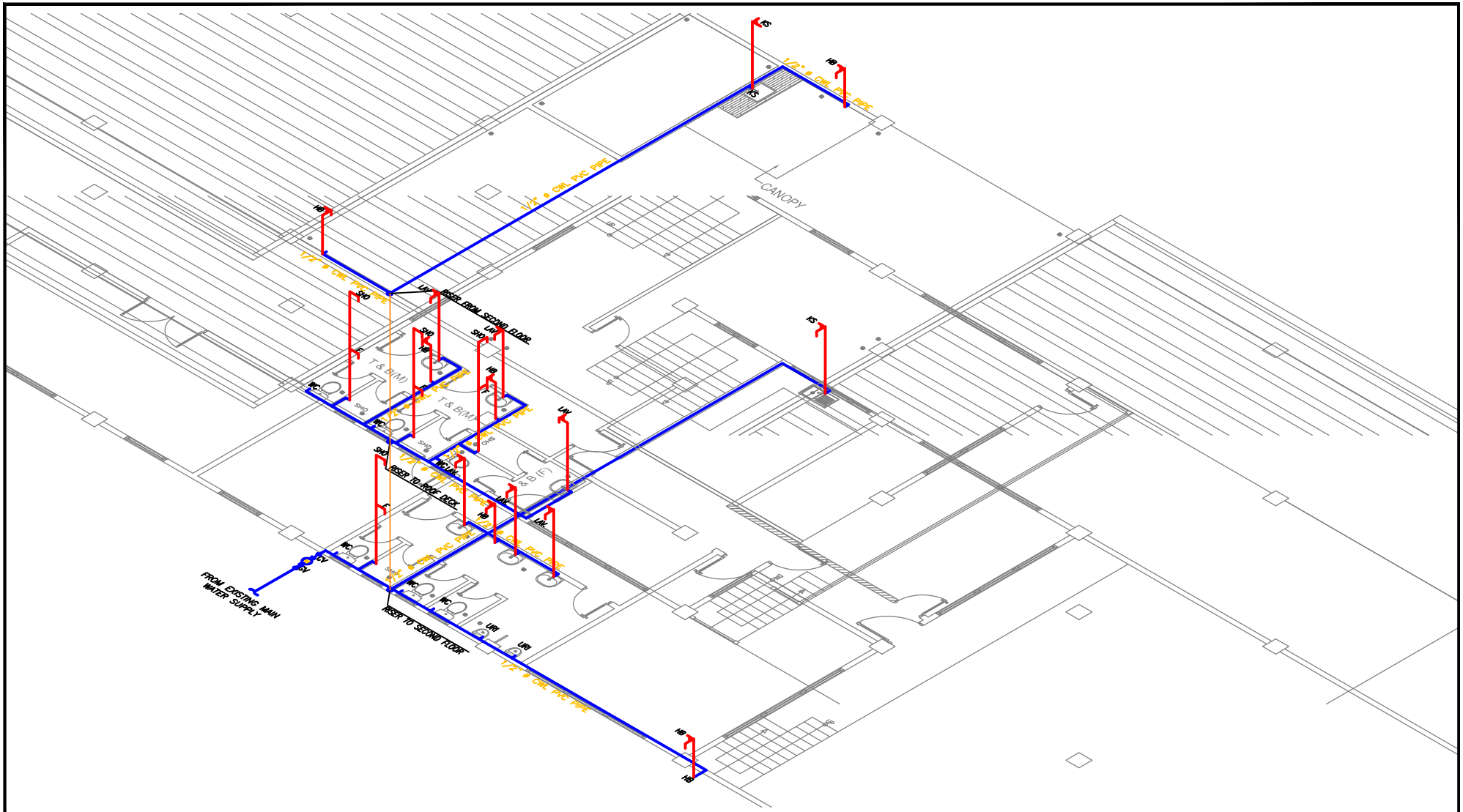
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	P-06

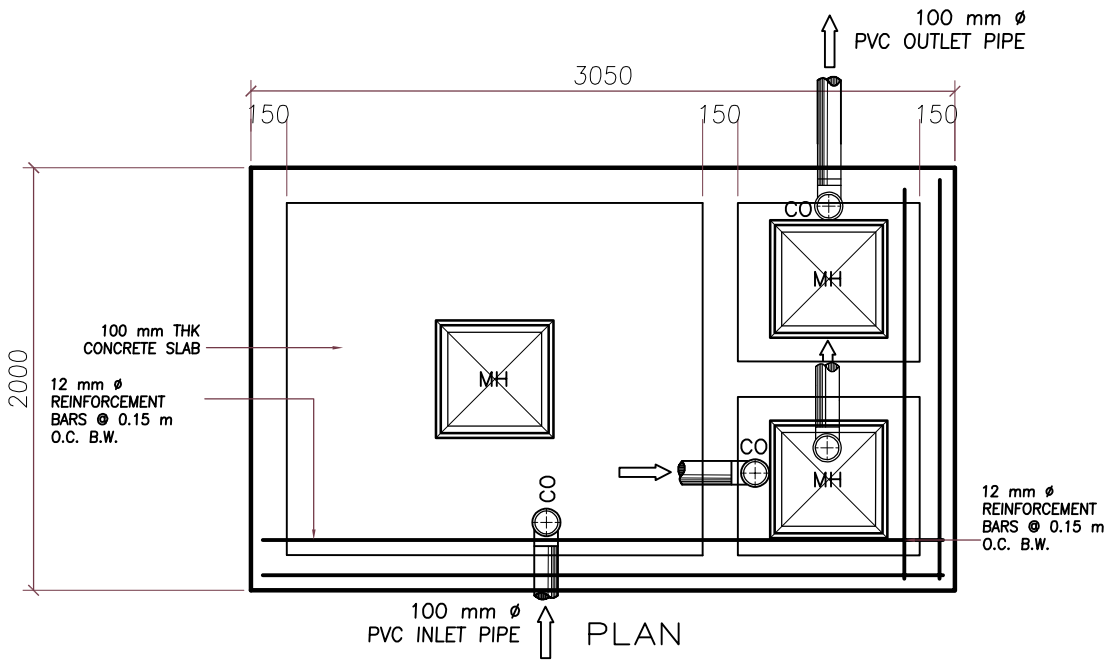


1
P–07

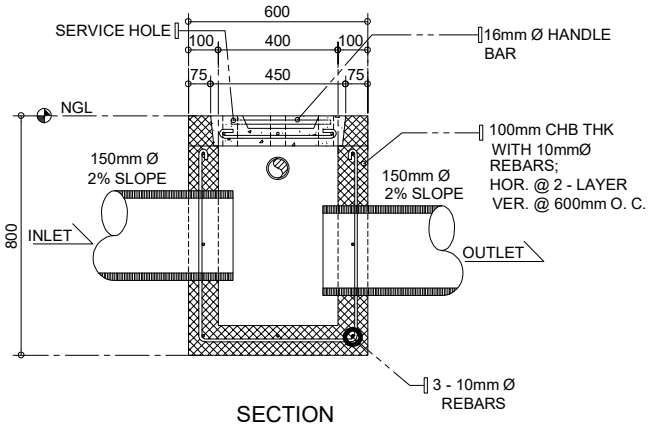
ISOMETRIC OF SEWERLINE LAYOUT

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	P-07

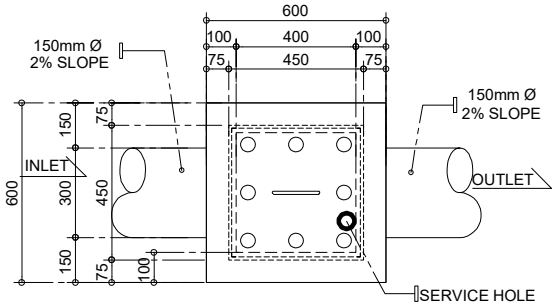

CANOPY
1/2" ø GWL PVC PIPE
1/2" ø GWL PVC PIPE
1/2" ø GWL PVC PIPE
1/2" ø GWL PVC PIPE
1/2" ø GWL PVC PIPE
1/2" ø GWL PVC PIPE
1/2" ø GWL PVC PIPE
RISER FROM SECOND FLOOR
RISER TO ROOF DECK
RISER TO SECOND FLOOR
FROM EXISTING MAIN WATER SUPPLY
T & B(M)
T & B(M)
T & B(M)



1 P–09 SEPTIC TANK DETAILS (COVER)



SECTION



2 P–09 CATCH BASIN DETAILS

PLUMBING NOTES

1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE PLUMBING CODE.

2. ALL WORKS SHALL BE DONE BY AN EXPERIENCED PLUMBER.

3. PIPES SHALL BE LAID AT LEAST 30 CM BELOW GROUND.

4. PROVIDE SUFFICIENT VENTILATION ON T & B.

5. USE PPR(Polypropylene Random Copolymer) 1/2 " O # 40 PIPE OR APPROVED EQUAL FOR WATER LINE.

6. GRADES OF HORIZONTAL PIPES
   RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND AT A FORM GRADE OF NOT LESS THAN TWO PERCENT (2%).

7. CHANGE IN DIRECTION
   ALL CHANGES IN DIRECTION SHALL BE MADE IN APPROPRIATE USE OF FORTY
   FIVE DEGREES (45') WYES, LONG SWEEP QUARTER BEND, SIXTH–EIGHT OR
   SIXTEENTH BENDS. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL ⅛ BEND
   COMBINATION MAYBE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS
   MAYBE USED ON WASTE LINE TEE AND CROSSES MAYBE USED IN VENT PIPES.

8. PIPE CLEAN–OUT
   PIPE CLEAN–OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
   A. EVERY CHANGE IN HORIZONTAL DIRECTIONS EXCEEDING TWENTY–TWO AND ONE–HALF DEGREES (22 1/2')
   B. ONE AND ONE–HALF METERS (1.50 M.) INSIDE THE PROPERTY LINE BEFORE
   THE HOUSE DRAIN CONNECTION.
   C. EVERY FIFTEEN METERS (15.00 M.) IN HORIZONTAL RUN OF PIPES.
   D. AT THE END OF ANY HORIZONTAL PIPE LINES.

9. THE DIGESTIVE CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
   NOT LESS THAN 300 MM. OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PARTOF THE VAULT ROOF SLAB.

   NO SEPTIC VAULT MUST BE CONSTRUCTED UNDER THE BUILDING.

10. PROHIBITTED FITTINGS

   NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL OR
   HORIZONTAL WASTE LINES, THE DRILLING AND TAPPING HOUSE OF DRAIN, WASTE
   OR VENT PIPES AND USE OF SADDLE HUB AND BENDS ARE PROHIBITTED.

11. SLEEVES

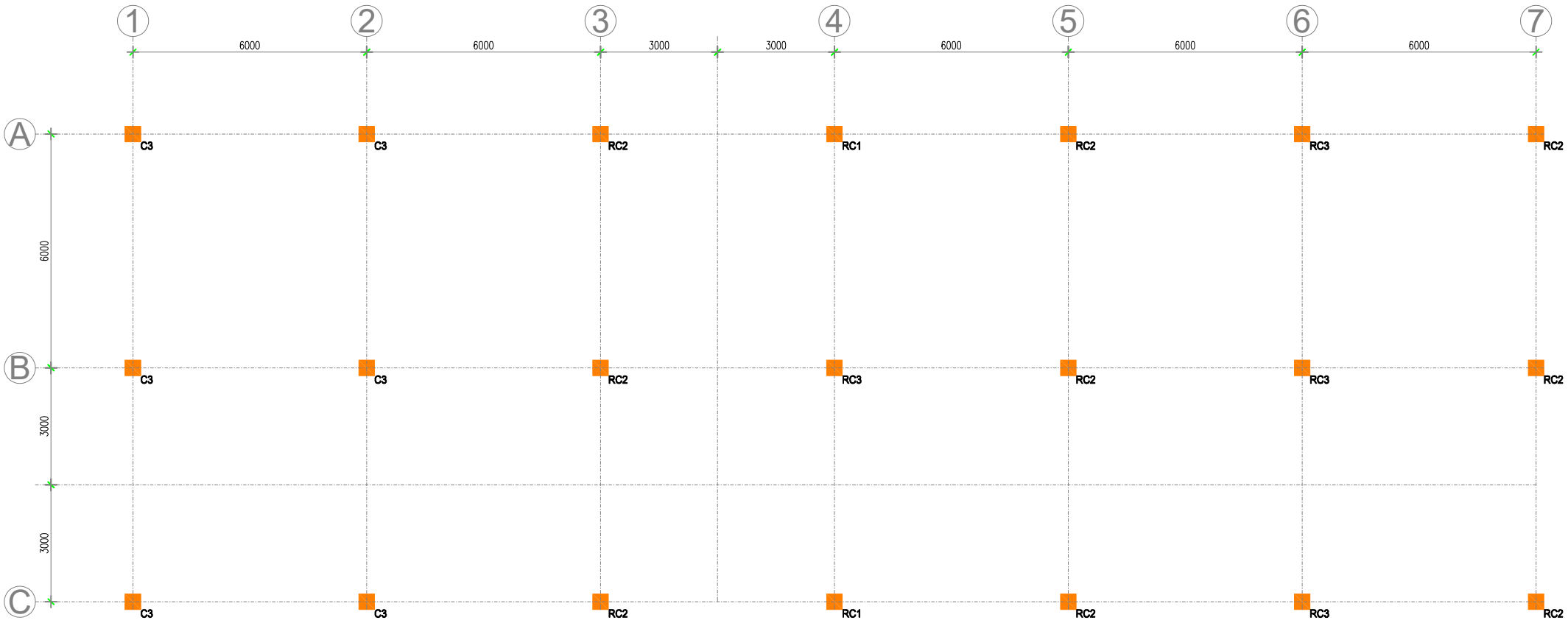
   PROVIDE PIPE SLEEVES AT WALLS, COLUMNS OR SLABS ON SIZE BIGGER THAN THE ACTUAL SIZE PASSING THROUGH THE WALLS, COLUMNS OR UNDER SLAB TO
   PROTECT PIPE FROM BREAKAGE.

LEGENDS

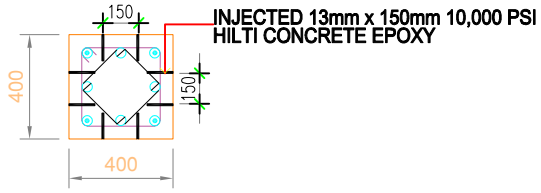
VTR	VENT THRU ROOF	WC	WATER CLOSET
CO	CLEAN OUT	LAV	LAVATORY
F	FAUCET	KS	KITCHEN SINK
GV	GATE VALVE	SH	SHOWER
WM	WATER METER	FD	FLOOR DRAIN
SV	SEPTIC VAULT	DS	DOWN SPOUT
CB	CATCH BASIN	HB	HOSE BIB

WATER LINE
SEWER LINE
STORM DRAIN LINE
GV GATE VALVE SYMBOL
CV CHECK VALVE SYMBOL
M WATER METER SYMBOL

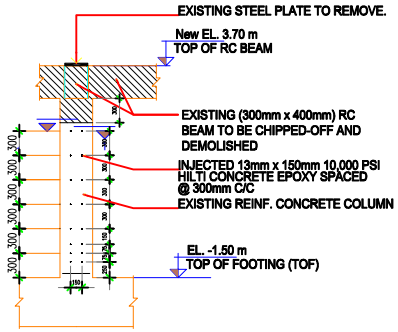
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	P-09



1 S–01 (RESTORED) COLUMNIZATION PLAN



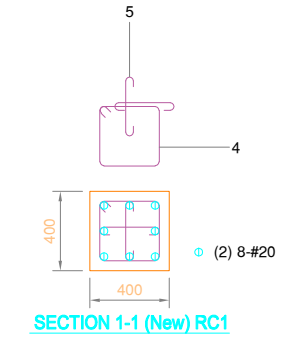
TYPICAL COLUMN SECTION DETAIL (RETROFIT)



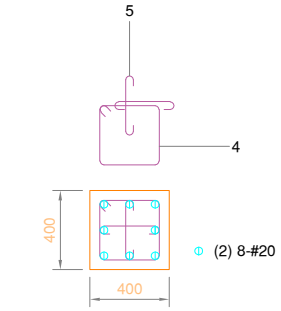
DETAIL OF (RETROFIT) COLUMN

2 S–01 TYPICAL COLUMN SECTION DETAIL (RETROFIT)

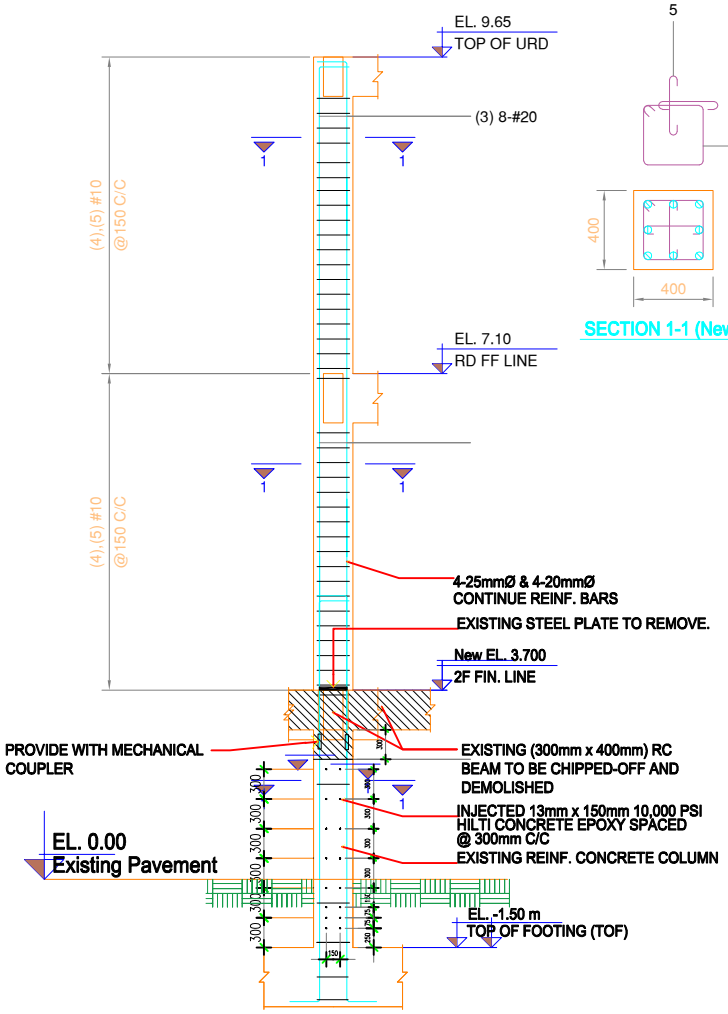
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-01



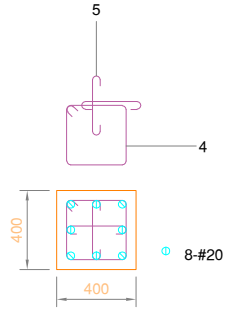
SECTION 1-1 (New) RC1



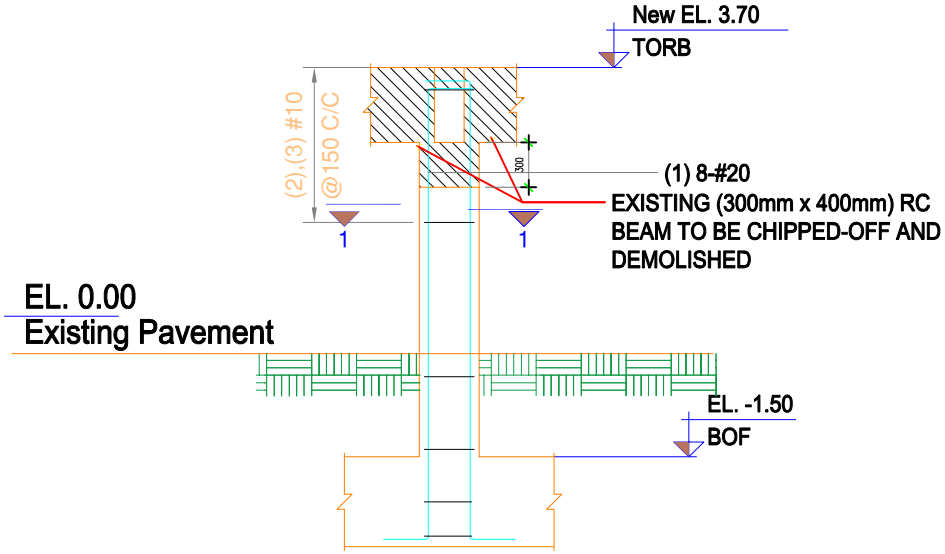
(As-Found) SECTION 1-1 (RC1)



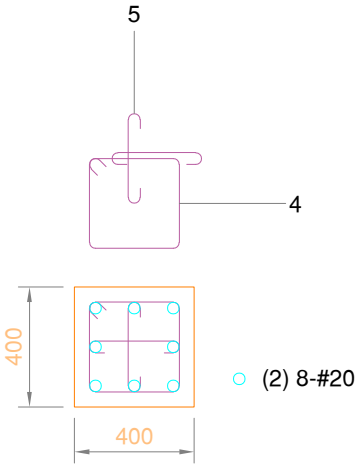
DETAIL OF COLUMN RC1



SECTION 1-1 (New) RC1



DETAIL OF COLUMN C3



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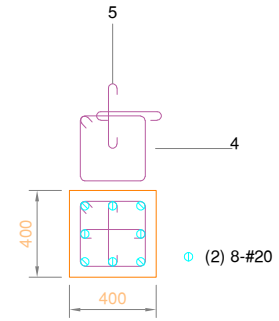
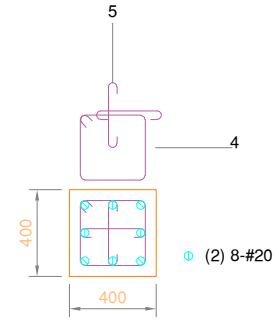
1 S–02 COLUMN SECTION DETAILS

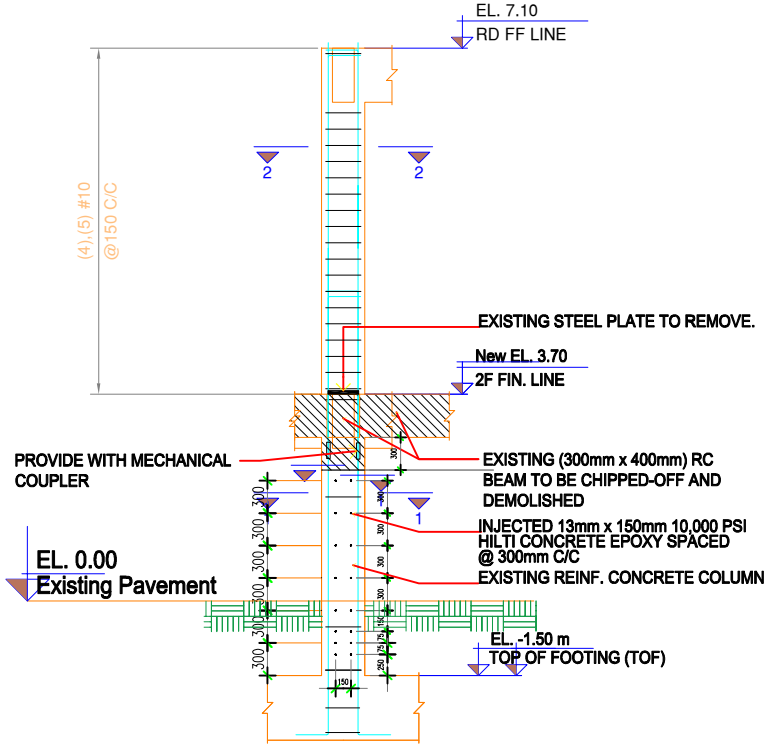
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-02



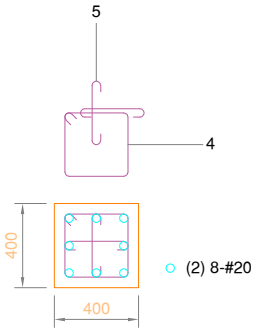
SECTION 2-2 (RC2)



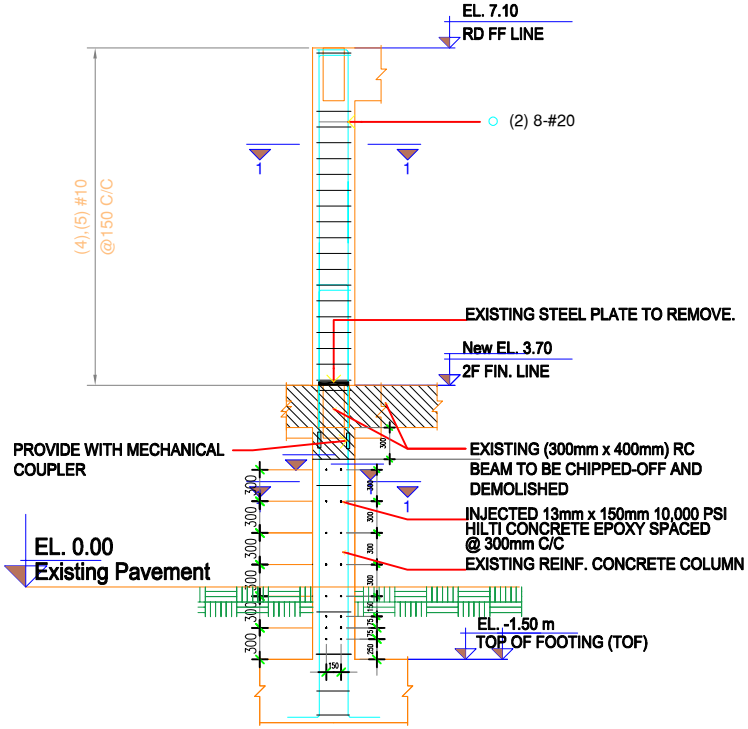
(As Found) SECTION 1-1 (RC2)



DETAIL OF COLUMN RC2



SECTION 1-1 (RC3)

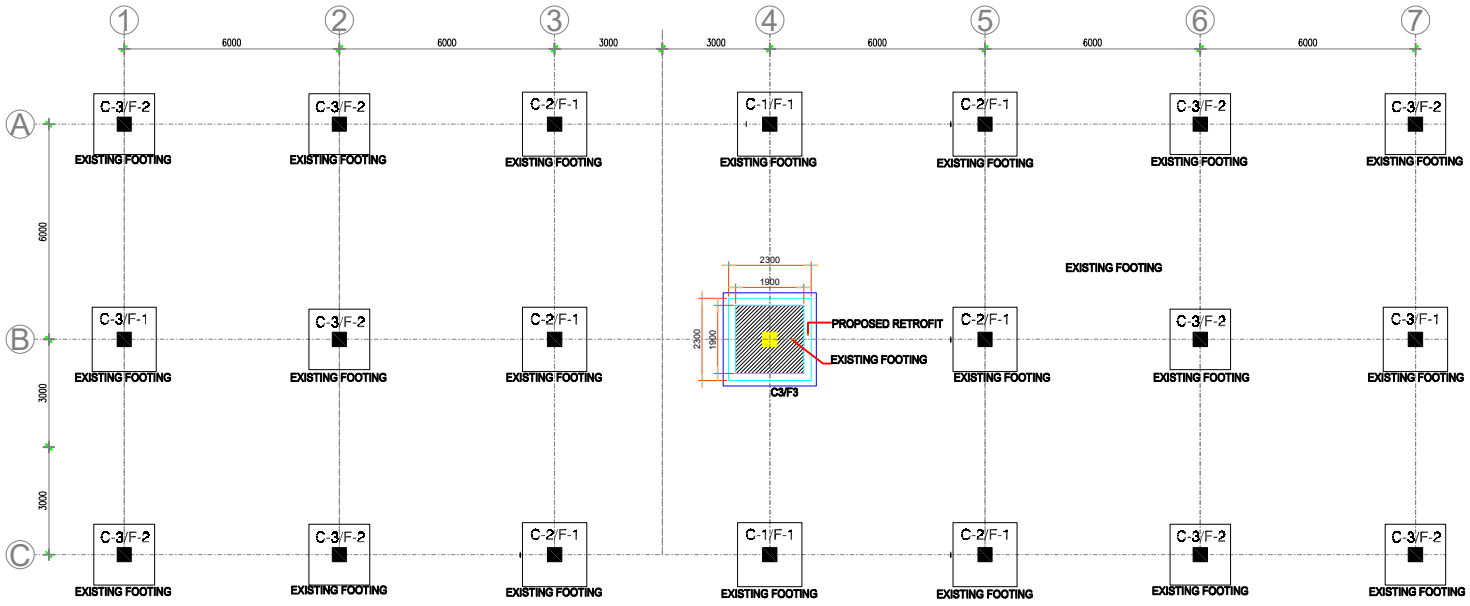


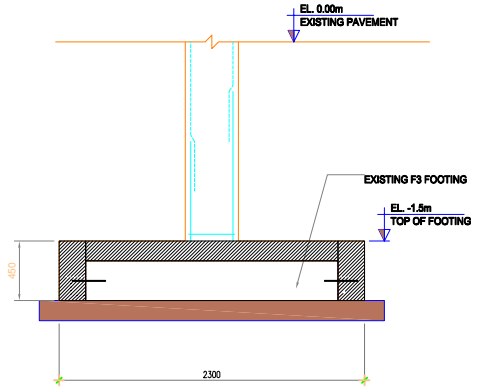
DETAIL OF COLUMN RC3

1
S–03

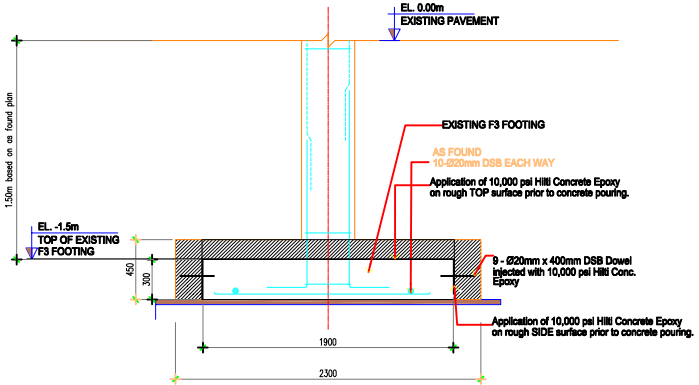
COLUMN SECTION DETAILS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-03

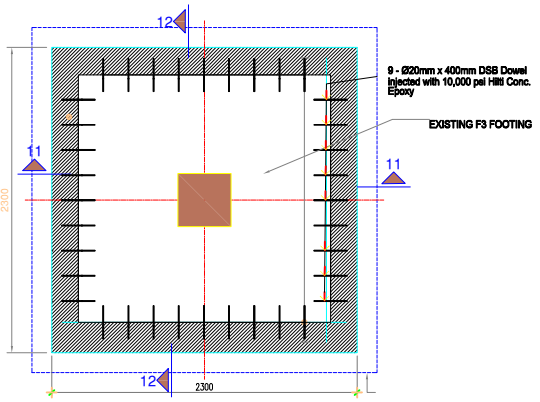




RETROFITTED SECTION 12-12



DETAILS OF RETROFITTED SECTION 11-11



RETROFITTED FOOTING F3- PLAN

1 S–04 AS FOUND (FOUNDATION PLAN)

FOOTING (AS FOUND) SCHEDULE (C21:Fy414)

FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	FOOTING DIMENSION					FOOTING REINFORCEMENT				REMARKS
								BOTTOM		TOP		
			STEP	L	B	D1	D2	ALONG B	ALONG L	ALONG B	ALONG L	
F1	C3, C2,C1	ISOLATED		1.70m	1.70m	0.30m	1.50m	9 - Ø20mm DSB	9 - Ø20mm DSB	N/A	N/A	
F2	C3,C1	ISOLATED		1.80m	1.80m	0.30m	1.50m	9 - Ø20mm DSB	9 - Ø20mm DSB	N/A	N/A	
F3	C3	ISOLATED		1.90m	1.90m	0.30m	1.50m	10 - Ø20mm DSB	10 - Ø20mm DSB	N/A	N/A	

FOOTING SCHEDULE (C21:Fy414) - RECALCULATED ON NEED BASED

F1	C3, C2,C1	ISOLATED		1.70m	1.70m	0.30m	1.50m	9 - Ø20mm DSB	9 - Ø20mm DSB	N/A	N/A	1.70m>1.30m;SAFE!
F2	C3,C1	ISOLATED		1.80m	1.80m	0.30m	1.50m	9 - Ø20mm DSB	9 - Ø20mm DSB	N/A	N/A	1.80m>1.30m;SAFE!
F3	C3	ISOLATED		2.30m	2.30m	0.450m	1.50m	10 - Ø20mm DSB	10 - Ø20mm DSB	N/A	N/A	NEED TO RETROFIT

DESIGN DATA:

Soil Bearing Capacity = 280 Kpa.
Water Level is @ 4.30 m.
Depth of Footing is @ 1.50 m from concrete pavement.
Concrete Compressive Strength at 21.70 Mpa
Steel Tensile Strength at 410 Mpa
Distance near the Fault Line =18.60 Kms from West Valley Fault @ Magnitude 7.2 (M7.2).

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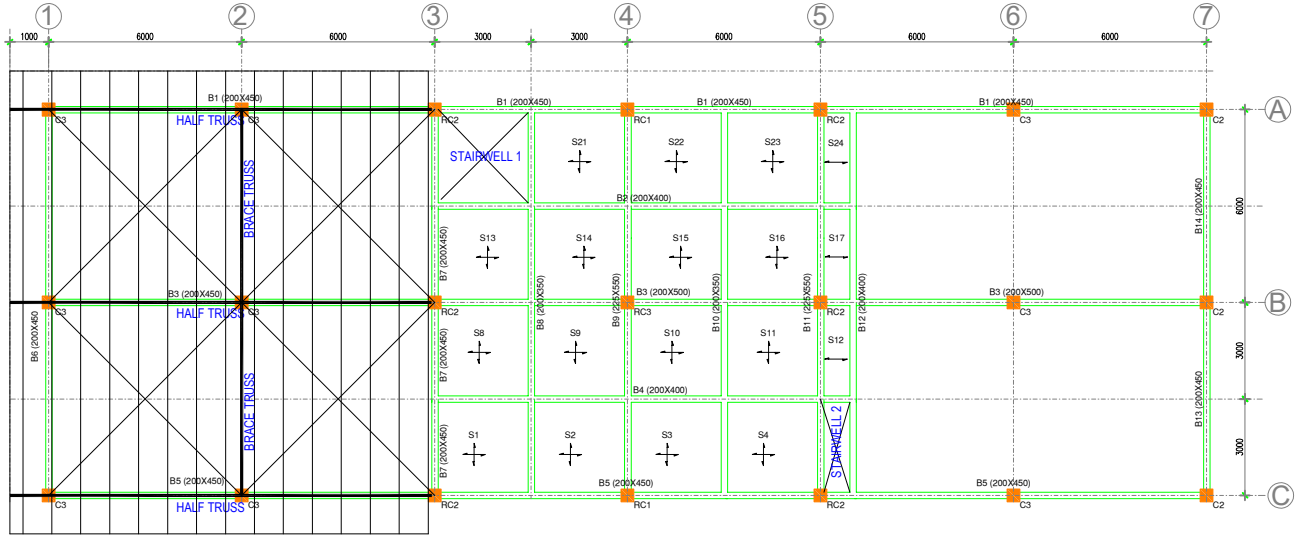
BEAM SCHEDULE (C28 : Fy414 (MAIN) : Fy276 (SHEAR)) (LEVEL: 3.7 m)

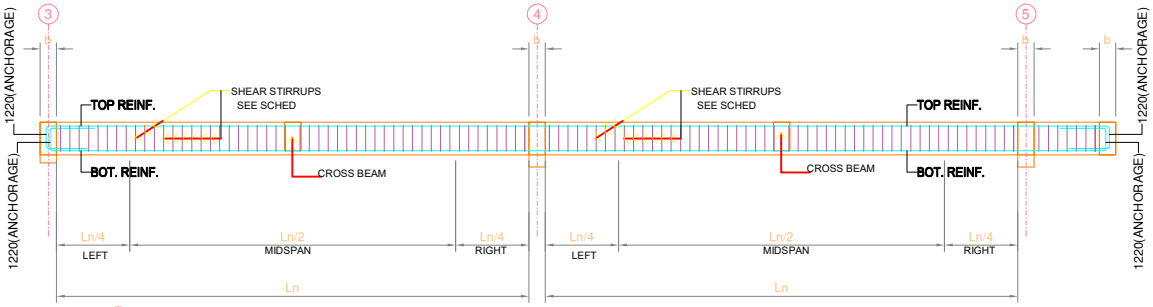
BEAM GROUP NOS.	SIZE		LOCATION (ALONG GRID)	TOP REINFORCEMENT			SHEAR STIRRUPS			REMARKS
	B	D		LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	
B1	200	450	A-1 to A-3	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@95 C/C	-#8@125 C/C	-#8@95 C/C	CONTINUOUS
	200	450	A-3 to A-6	2-#20	2-#20	2-#20	2-#20 2-#20	2-#20	2-#20 2-#20	-#8@90 C/C	-#8@85 C/C	-#8@95 C/C	
	200	450	A-6 to A-7	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@95 C/C	-#8@125 C/C	-#8@35 C/C	
B2	200	400	3 to 5	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@110 C/C	-#8@110 C/C	-#8@110 C/C	CONTINUOUS
B3	200	450	B-1 to B-3	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@95 C/C	-#8@115 C/C	-#8@95 C/C	CONTINUOUS
	200	500	B-3 to B-5	2-#20	2-#20	2-#20	+ 2-#20 2-#20	+ 2-#20 2-#20	+ 2-#20 2-#20	-#8@105 C/C	-#8@140 C/C	-#8@105 C/C	
	200	500	B-5 to B-7	2-#20	+ 2-#20 2-#20	2-#20	+ 2-#20 2-#20	+ 2-#20 2-#20	+ 2-#20 2-#20	-#8@75 C/C	-#8@105 C/C	-#8@75 C/C	
B4	200	400	3 to 5	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@110 C/C	-#8@110 C/C	-#8@110 C/C	CONTINUOUS
B5	200	450	C-1 to C-3	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@95 C/C	-#8@100 C/C	-#8@95 C/C	CONTINUOUS
	200	450	C-3 to C-5	2-#20	+ 2-#20 2-#20	2-#20	2-#20 2-#20	2-#20	+ 2-#20 2-#20	-#8@85 C/C	-#8@100 C/C	-#8@85 C/C	
	200	450	C-5 to C-7	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@85 C/C	-#8@100 C/C	-#8@85 C/C	
B6	200	450	1-A to 1-C	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@95 C/C	-#8@125 C/C	-#8@95 C/C	CONTINUOUS
B7	200	450	3-A to 3-C	2-#20	+ 2-#20 2-#20	2-#20	+ 2-#20 2-#20	2-#20	+ 2-#20 2-#20	-#8@95 C/C	-#8@85 C/C	-#8@95 C/C	CONTINUOUS
B8 , B10	200	350	(A-C)	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	-#8@100 C/C	-#8@100 C/C	-#8@100 C/C	CONTINUOUS
B9	225	550	4-A to 4-C	2-#20	+ 2-#20 2-#20	2-#20	+ 2-#20 2-#20	+ 2-#20 2-#20	+ 2-#20 2-#20	-#8@85 C/C	-#8@75 C/C	-#8@35 C/C	CONTINUOUS
B11	225	550	5-A to 5-B	2-#20	2-#20 2-#20	2-#20	2-#20 2-#20	2-#20 2-#20	+ 2-#20 2-#20	-#8@120 C/C	-#8@150 C/C	-#8@120 C/C	CONTINUOUS
	225	550	5-B to 5-C	2-#20	2-#20 2-#20	2-#20	2-#20 2-#20	2-#20 2-#20	+ 2-#20 2-#20	-#8@120 C/C	-#8@150 C/C	-#8@120 C/C	CONTINUOUS
B12	200	400	(A-C)	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@115 C/C	-#8@115 C/C	-#8@115 C/C	CONTINUOUS
B13	200	450	7-B to 7-C	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@95C/C	-#8@110 C/C	-#8@95 C/C	CONTINUOUS
B14	200	450	7-A to 7-B	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	-#8@95C/C	-#8@110 C/C	-#8@95 C/C	CONTINUOUS



1 / S–05

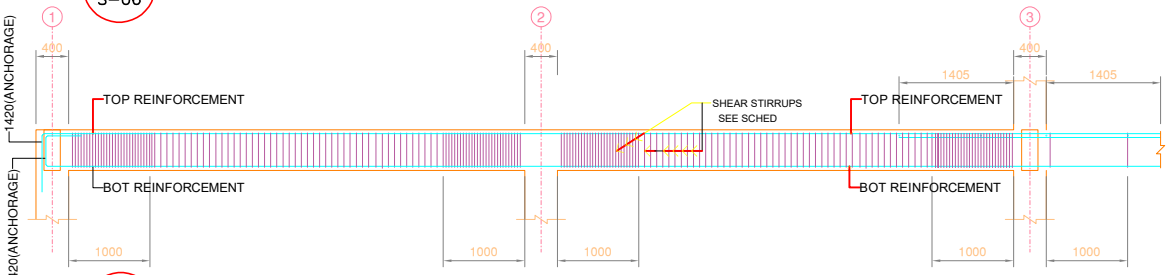
2F FLOOR AND ROOF FRAMING PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-05



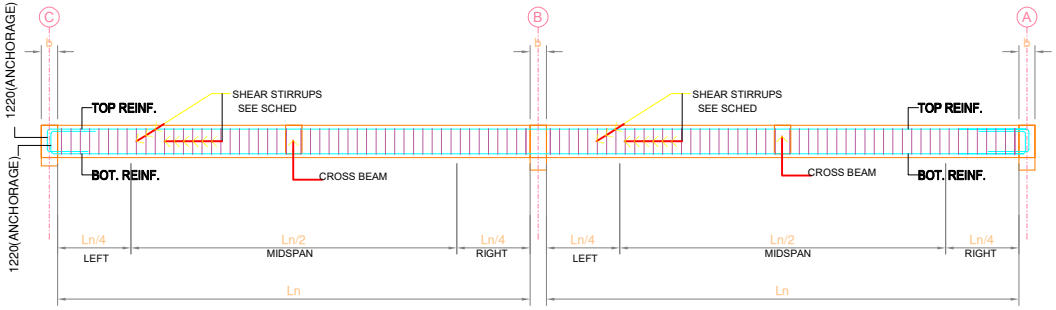
1 S-06

TYPICAL DETAILS OF REINF. CONCRETE BEAM



2 S-06

TYPICAL DETAILS OF REINF. CONCRETE ROOF BEAM



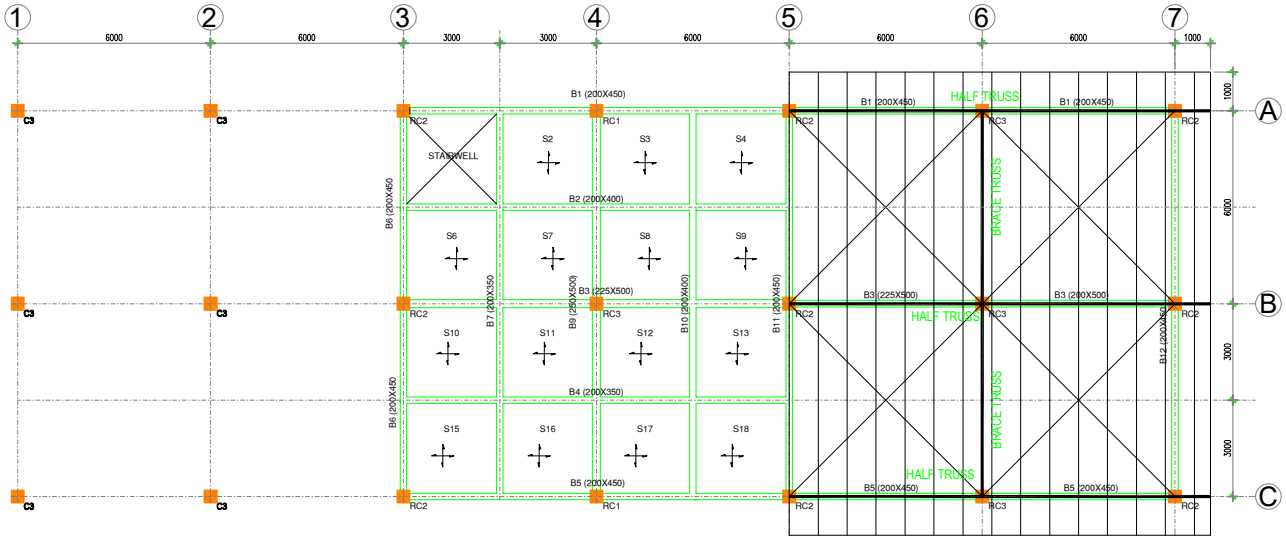
3 S-06

TYPICAL DETAILS OF REINF. CONCRETE CROSS BEAM

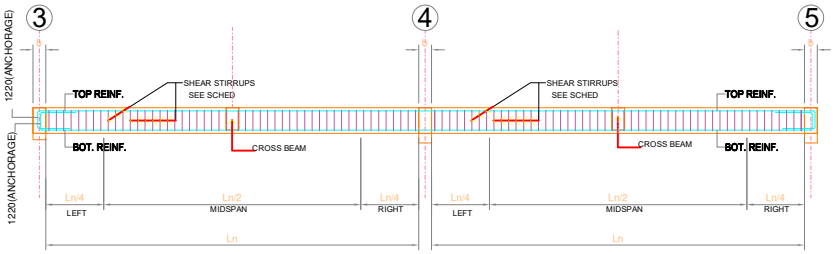
SLAB SCHEDULE (C21 : FY276) (LEVEL : 3.7 M)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT		
S1, S4, S8, S13 S21	100	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	10mm @ 200mmO.C	10mm @ 200mmO.C	10mm @ 200mmO.C	10mm @ 200mmO.C	10mm @ 250mmO.C	12 Raised
S2, S3, S22 S23	100	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	10mm @ 200mmO.C	10mm @ 200mmO.C	10mm @ 250mmO.C	12 Raised
S9, S10, S11 S14, S15, S16	100	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	10mm @ 250mmO.C	12 Raised
S12, S24	100	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	10mm @ 200mmO.C	10mm @ 200mmO.C	---	10mm @ 200mmO.C	10mm @ 250mmO.C	12 Raised
S17	100	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	10mm @ 200mmO.C	---	---	10mm @ 200mmO.C	10mm @ 250mmO.C	12 Raised

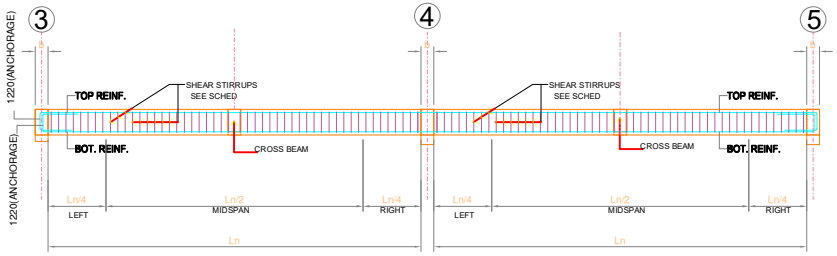
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-06



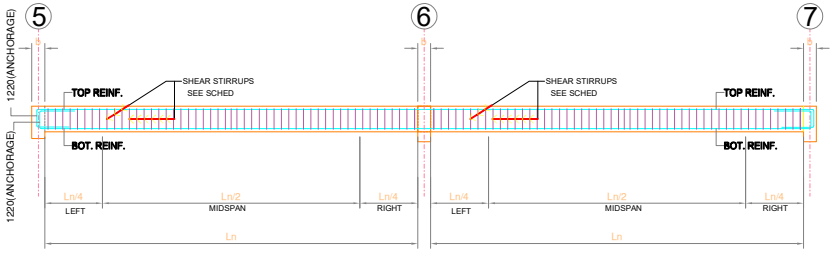
1 S–07 ROOF DECK FLOOR AND ROOF FRAMING PLAN



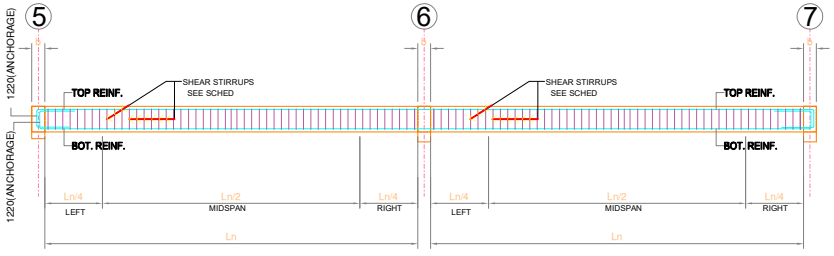
TYPICAL DETAILS OF RD REINF.CONCRETE BEAM
GRID 3A TO 5A



TYPICAL DETAILS OF RD REINF.CONCRETE BEAM
ALONG GRID 3A' TO 5A'



TYPICAL DETAILS OF RD REINF.CONCRETE BEAM
ALONG GRID (B5 TO B7)

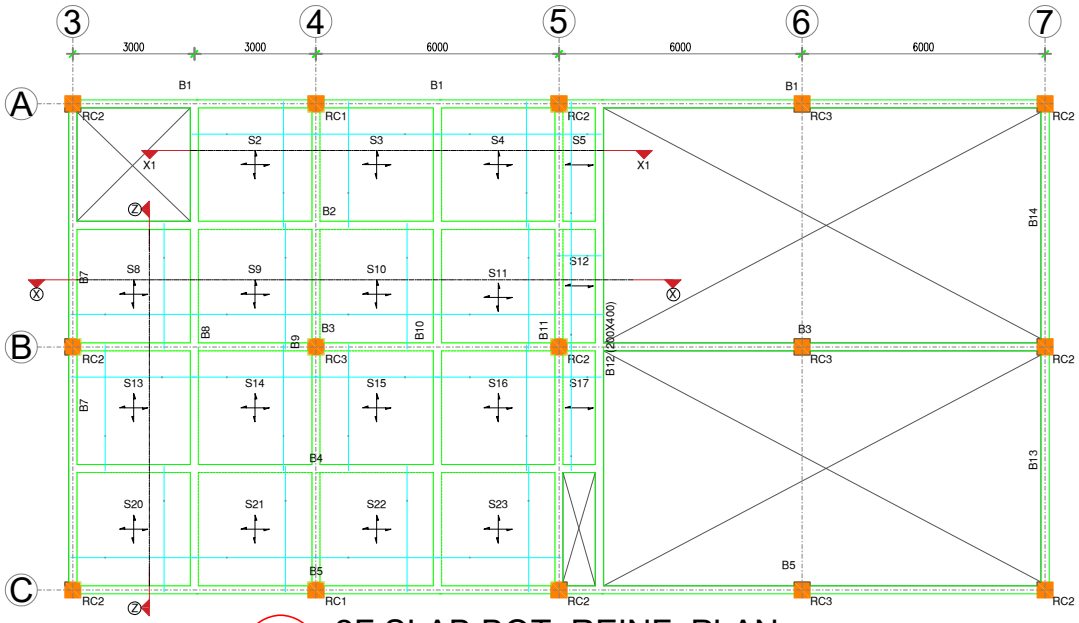


TYPICAL DETAILS OF RD REINF.CONCRETE BEAM
ALONG GRID (C5 TO C7) & (A5 TO A7)

BEAM SCHEDULE (C28 : Fy414 (MAIN) : Fy276 (SHEAR)) (LEVEL: 7.10 m)

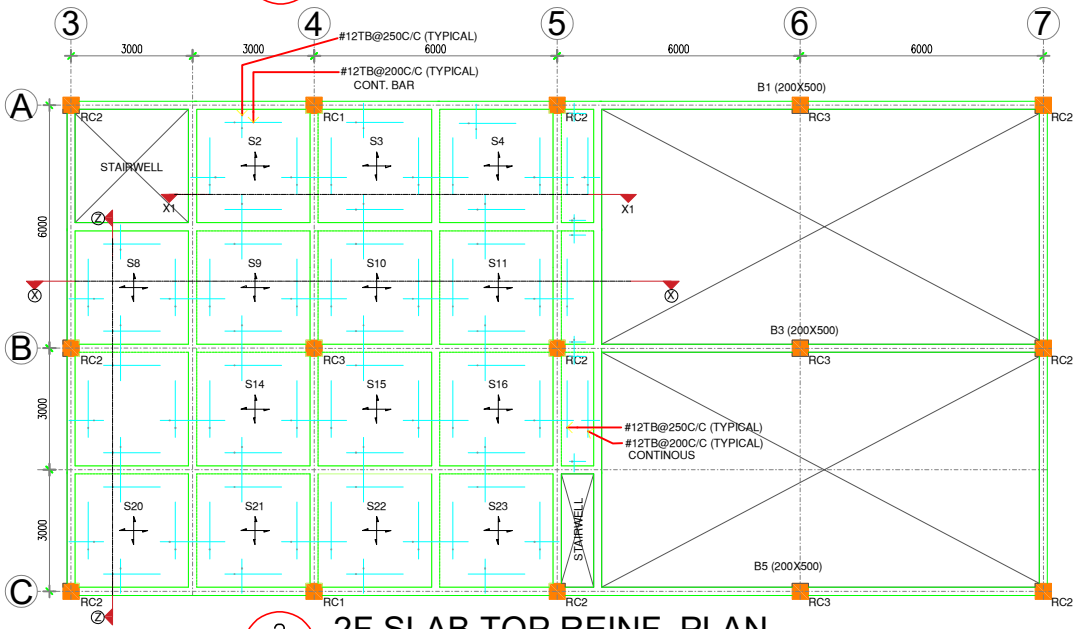
BEAM GROUP NOS.	SIZE		LOCATION (ALONG GRID)	TOP REINFORCEMENT			SHEAR STIRRUPS			REMARKS
	B	D		LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	
B1	200	450	A-3 to A-5	2-#20	2-#20 2-#16	2-#20	2-#16 2-#16	2-#16 2-#16	2-#16 2-#16	#8@125C/C	#8@125C/C	#8@125C/C	
	200	450	A-5 to A-6	2-#16	+ 2-#16 2-#16	2-#16	+ 2-#16 2-#16	2-#16	2-#20	#8@125 C/C	#8@125 C/C	#8@125 C/C	CONTINUOUS
	200	450	A-6 to A-7	2-#16	2-#16	2-#16	2-#20	2-#16	2-#16	#8@125 C/C	#8@125 C/C	#8@125 C/C	
B2	200	400	(3 to 5)	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	#8@110 C/C	#8@110 C/C	#8@110 C/C	CONTINUOUS
B3	225	500	B-3 to B-5	2-#16	3-#16	2-#16	+ 2-#16 2-#16	2-#16	+ 2-#20 2-#20	#8@145 C/C	#8@145 C/C	#8@145 C/C	CONTINUOUS
	225	500	B-5 to B-6	2-#16	+ 3-#16 2-#16	2-#16	+ 2-#20 2-#20	2-#16	+ 2-#20 2-#16	#8@120 C/C	#8@145 C/C	#8@145 C/C	
	200	500	B-6 to B-7	2-#16	+ 3-#16 2-#16	2-#16	+ 2-#20 2-#20	2-#16	+ 2-#20 2-#16	#8@120 C/C	#8@145 C/C	#8@145 C/C	
B4	200	350	3 to 5	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	#8@100 C/C	#8@100 C/C	#8@100 C/C	CONTINUOUS
B5	200	450	C-3 to C-5	2-#16	2-#16	2-#16	2-#20	2-#16	+ 2-#20 2-#16	#8@125 C/C	#8@125 C/C	#8@125 C/C	CONTINUOUS
	200	450	C-5 to C-6	2-#16	+ 2-#16 2-#16	2-#16	+ 2-#20 2-#16	2-#16	2-#20	#8@125 C/C	#8@125 C/C	#8@125 C/C	
	200	450	C-6 to C-7	2-#16	2-#16	2-#16	2-#20	2-#16	2-#16	#8@125 C/C	#8@125 C/C	#8@125 C/C	
B6	200	450	3-A to 3-B	2-#16	2-#16	2-#16	2-#16	2-#16	+ 2-#16 2-#16	#8@125 C/C	#8@125 C/C	#8@125 C/C	CONTINUOUS
	200	450	3-B to 3-C	2-#16	2-#16	2-#16	2-#16	2-#16	+ 2-#16 2-#16	#8@125 C/C	#8@125 C/C	#8@125 C/C	CONTINUOUS
B7	200	350	A to C	2-#16	+ 2-#16 2-#16	2-#16	2-#20	2-#16	2-#20	#8@110 C/C	#8@110 C/C	#8@110 C/C	CONTINUOUS
B9	200	500	4-A to 4-B	2-#20	+ 2-#20 2-#16	2-#20	+ 2-#16 2-#16	2-#16	+ 2-#20 2-#20	#8@135 C/C	#8@135 C/C	#8@135 C/C	CONTINUOUS
	200	500	4-B to 4-C	2-#20	+ 2-#20 2-#16	2-#20	+ 2-#16 2-#16	2-#16	+ 2-#20 2-#20	#8@135 C/C	#8@135 C/C	#8@135 C/C	CONTINUOUS
B10	200	400	A-C	2-#16	+ 2-#16 2-#16	2-#16	2-#20	2-#16	2-#20	#8@110 C/C	#8@110 C/C	#8@110 C/C	CONTINUOUS
B11	200	450	5-A to 5-B	2-#16	+ 2-#16 2-#16	2-#16	+ 2-#16 2-#16	2-#16	+ 2-#16 2-#16	#8@125 C/C	#8@125 C/C	#8@125 C/C	CONTINUOUS
	200	450	5-B to 5-C	2-#16	+ 2-#16 2-#16	2-#16	2-#20	2-#16	+ 2-#16 2-#16	#8@125 C/C	#8@125 C/C	#8@125 C/C	CONTINUOUS
B12	200	450	7-A to 7-C	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	#8@125 C/C	#8@125 C/C	#8@125 C/C	CONTINUOUS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-07



1 S-08

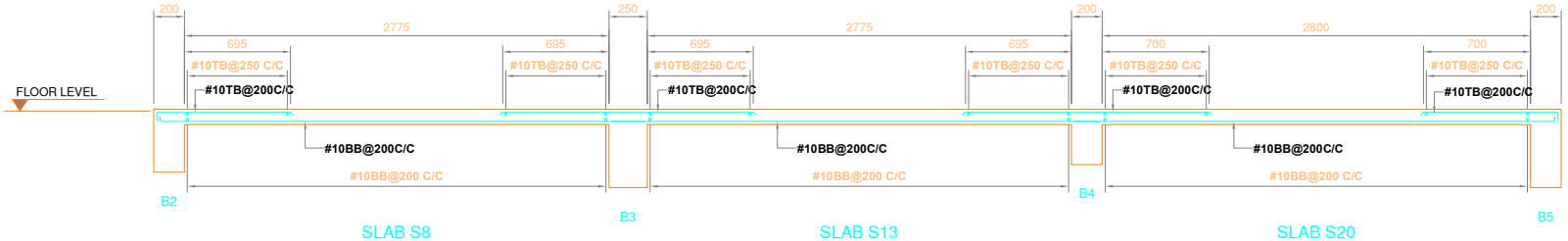
2F SLAB BOT. REINF. PLAN



2 S-08

2F SLAB TOP REINF. PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-08

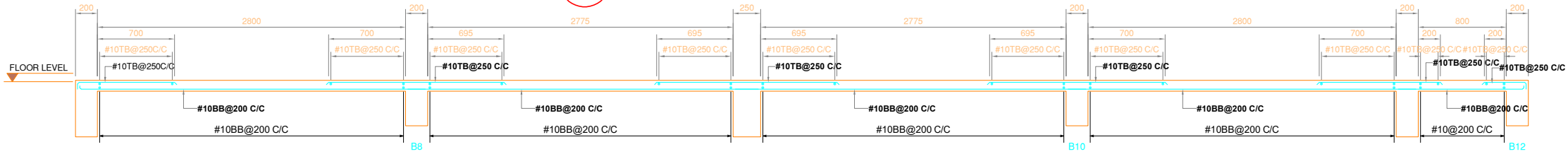


SLAB S8
(TWO WAY) (100 THK)(12 RAISED)

SLAB S13
(TWO WAY) (100 THK)(12 RAISED)

SLAB S20
(TWO WAY) (100 THK)(12 RAISED)

1 S–09 SLAB CUTTING AT SECTION Z-Z



SLAB S8
(TWO WAY) (100 THK)(12 RAISED)

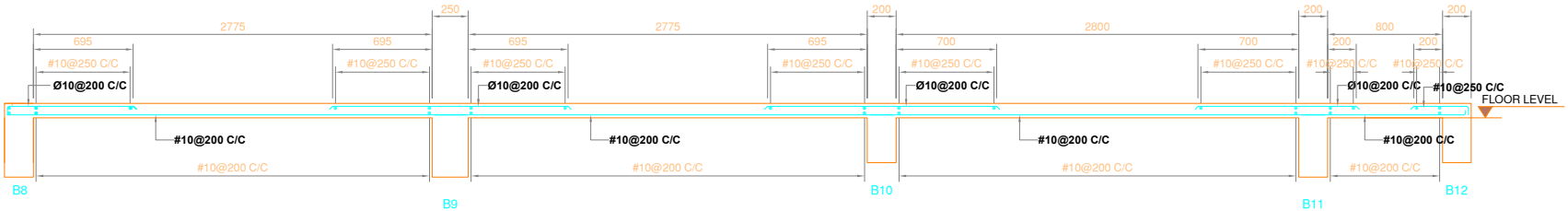
SLAB S9
(TWO WAY) (100 THK)(12 RAISED)

SLAB S10
(TWO WAY) (100 THK)(12 RAISED)

SLAB S11
(TWO WAY) (100 THK)(12 RAISED)

SLAB S12
(ONE WAY) (100 THK)(12 RAISED)

2 S–09 SLAB CUTTING AT SECTION X1-X1



SLAB S2
(TWO WAY) (100 THK)(12 RAISED)

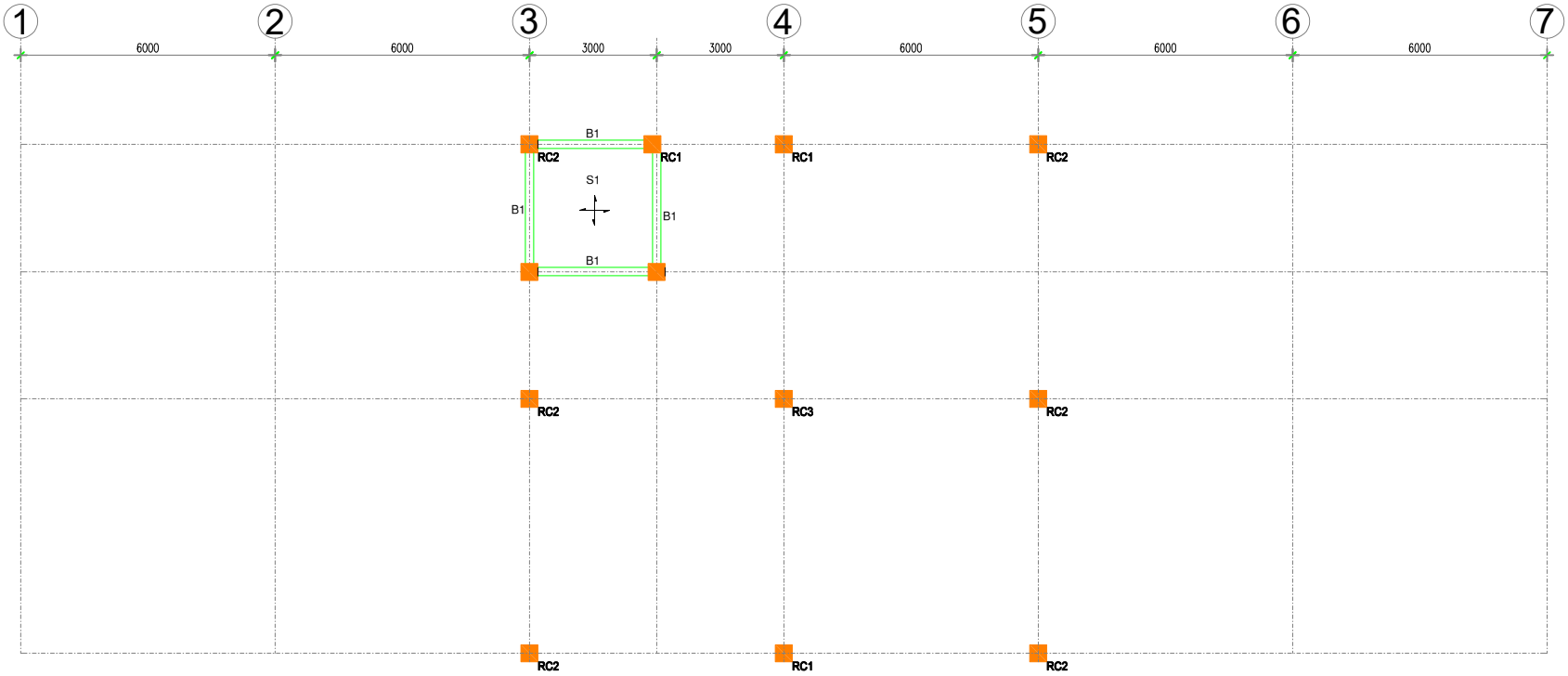
SLAB S3
(TWO WAY) (100 THK)(12 RAISED)

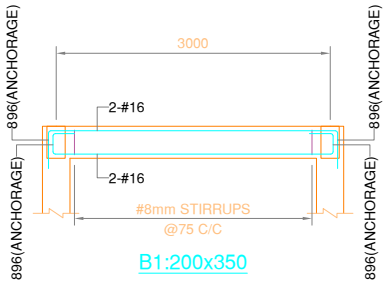
SLAB S4
(TWO WAY) (100 THK)(12 RAISED)

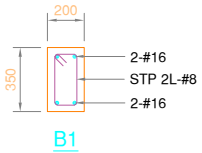
SLAB S5
(ONE WAY) (100 THK)(12 RAISED)

3 S–09 SLAB CUTTING AT SECTION X-X

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-09







1
S–10

UPPER ROOF DECK FRAMING PLAN

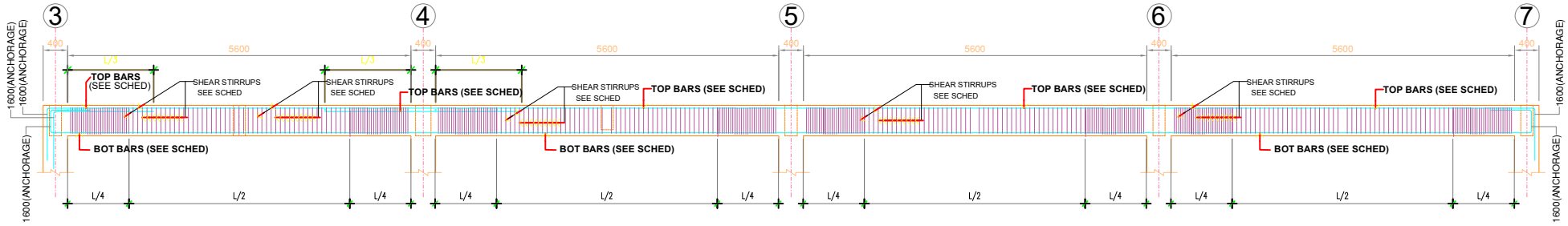
BEAM SCHEDULE (C21 : Fy414 (MAIN) : Fy276 (SHEAR)) (LEVEL: 9.65 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	
B1	200	350	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	-#8@75 C/C	-#8@75 C/C	-#8@75 C/C	-

SLAB SCHEDULE (C21 : FY414) (LEVEL : 9.65 M)

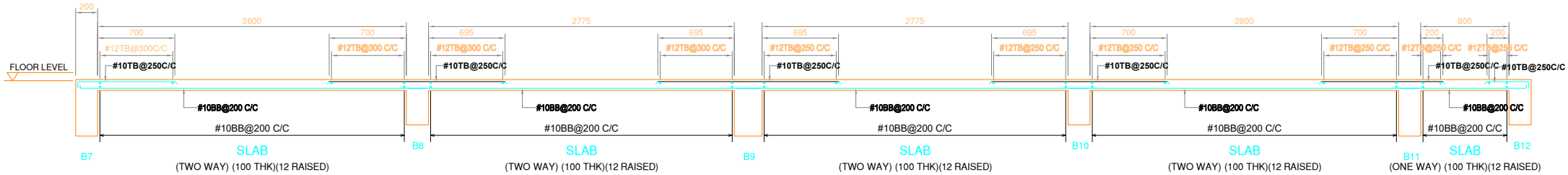
SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT		
S1	100	#10 @ 200 C/C	---	#10 @ 200 C/C	---	---	#10 @ 200 C/C	---	#10 @ 200 C/C	#10 @ 250 C/C	25 Raised

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-10



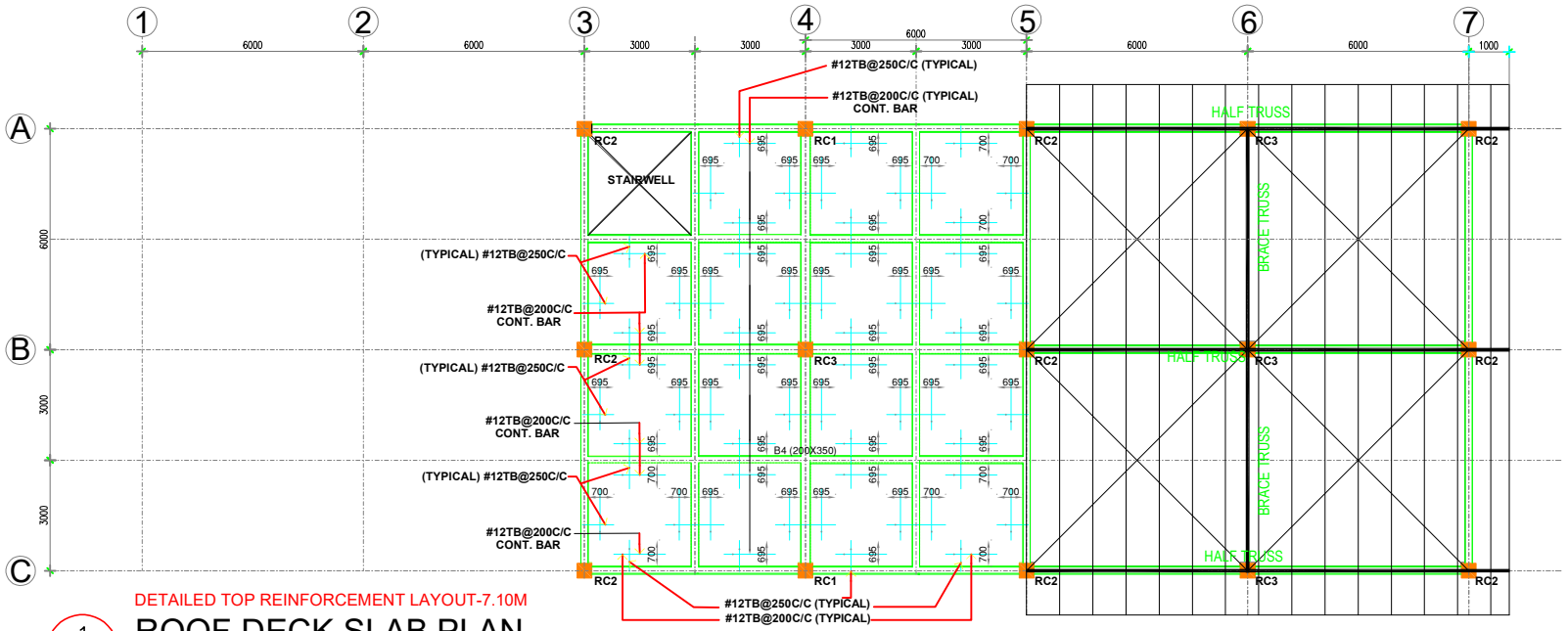
ALONG GRIDLINE 3 TO GRIDLINE 7

1 / S–11 TYPICAL DETAILS OF RD REINF.CONCRETE BEAM



2 / S–11 TYPICAL DETAILS OF TOP & BOTTOM REINFORCEMENT ON SLAB

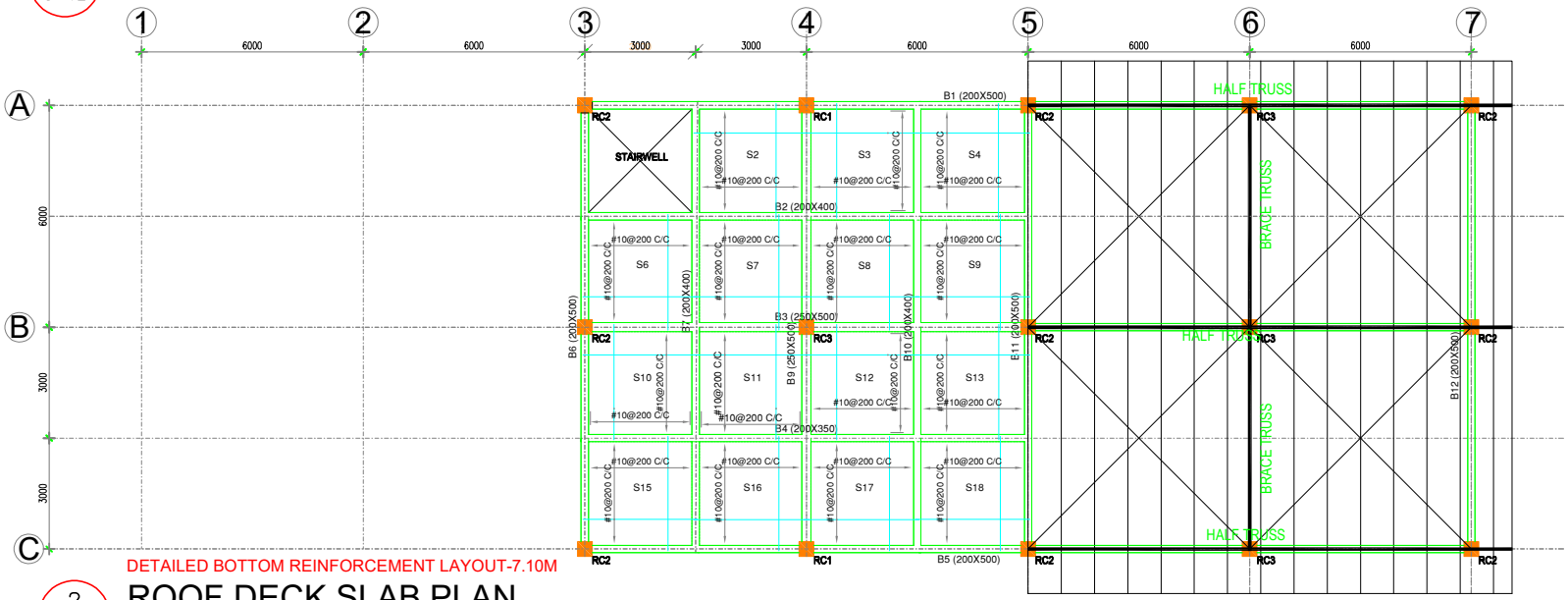
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-11



DETAILED TOP REINFORCEMENT LAYOUT-7.10M

1 S–12

ROOF DECK SLAB PLAN



DETAILED BOTTOM REINFORCEMENT LAYOUT-7.10M

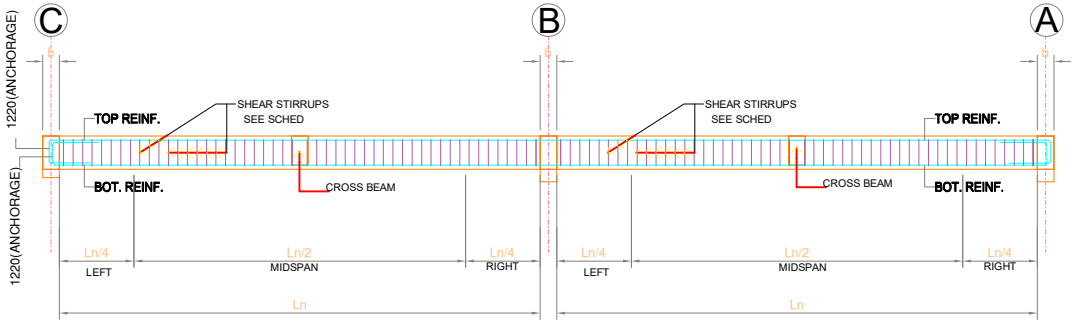
2 S–12

ROOF DECK SLAB PLAN

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-12

SLAB SCHEDULE (C21 : FY276) (LEVEL : 7.10 M)

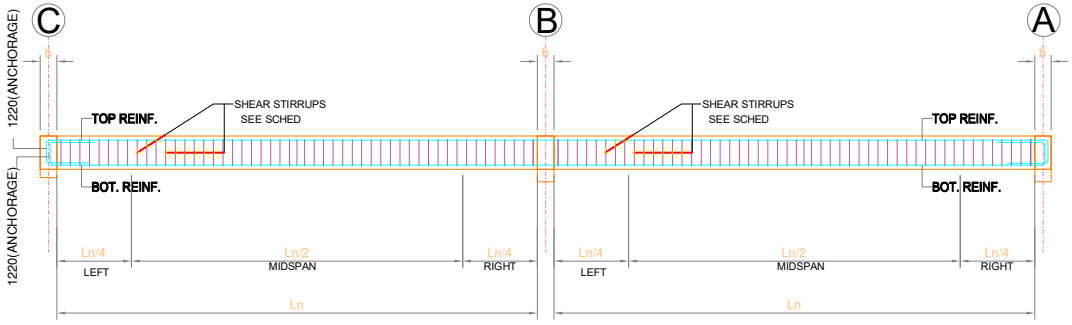
SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT		
S2, S4, S6, S9 S10, S13, S15 S18	100	#10 @ 200 C/C	---	#10 @ 200 C/C	---	#10 @ 200 C/C	#12 @ 200 C/C	#10 @ 200 C/C	#10 @ 200 C/C	#12 @ 250 C/C	12 Raised
S3, S16, S17	100	#10 @ 200 C/C	---	#10 @ 200 C/C	---	#10 @ 200 C/C	---	#10 @ 200 C/C	#10 @ 200 C/C	#12 @ 250 C/C	12 Raised
S7, S8, S11 S12	100	#10 @ 200 C/C	---	#10 @ 200 C/C	---	#10 @ 200 C/C	---	#10 @ 200 C/C	---	#12 @ 250 C/C	12 Raised



ALONG GRID 7A TO 7C

1 S–13

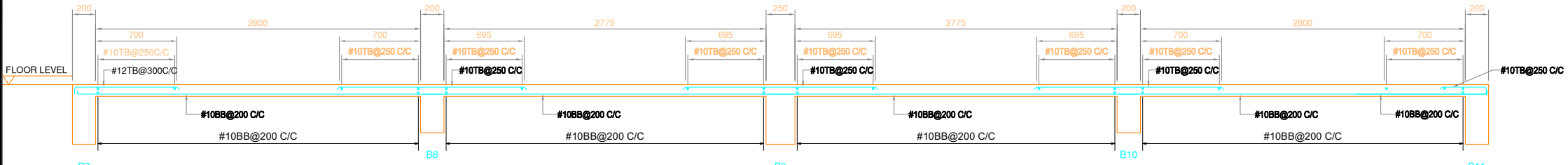
TYPICAL DETAILS OF RD REINF. CONCRETE BEAM



ALONG GRID (3A TO 3C) TO (6A TO 6C)

2 S–13

TYPICAL DETAILS OF RD REINF. CONCRETE BEAM



SLAB S8
(TWO WAY) (100 THK)(12 RAISED)

SLAB S9
(TWO WAY) (100 THK)(12 RAISED)

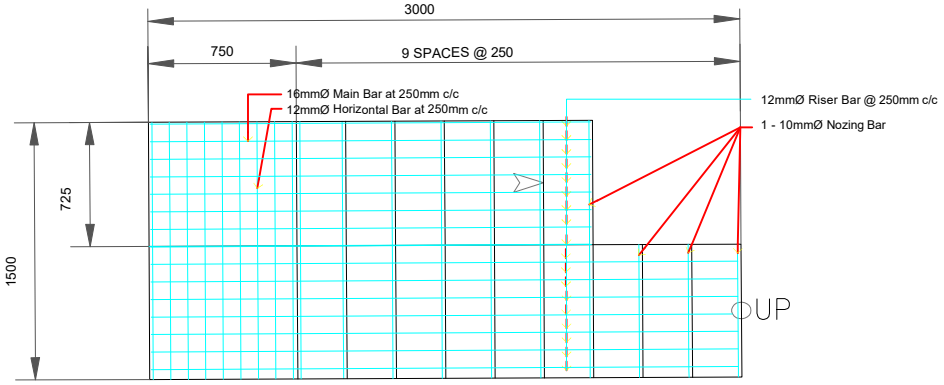
SLAB S10
(TWO WAY) (100 THK)(12 RAISED)

SLAB S11
(TWO WAY) (100 THK)(12 RAISED)

3 S–13

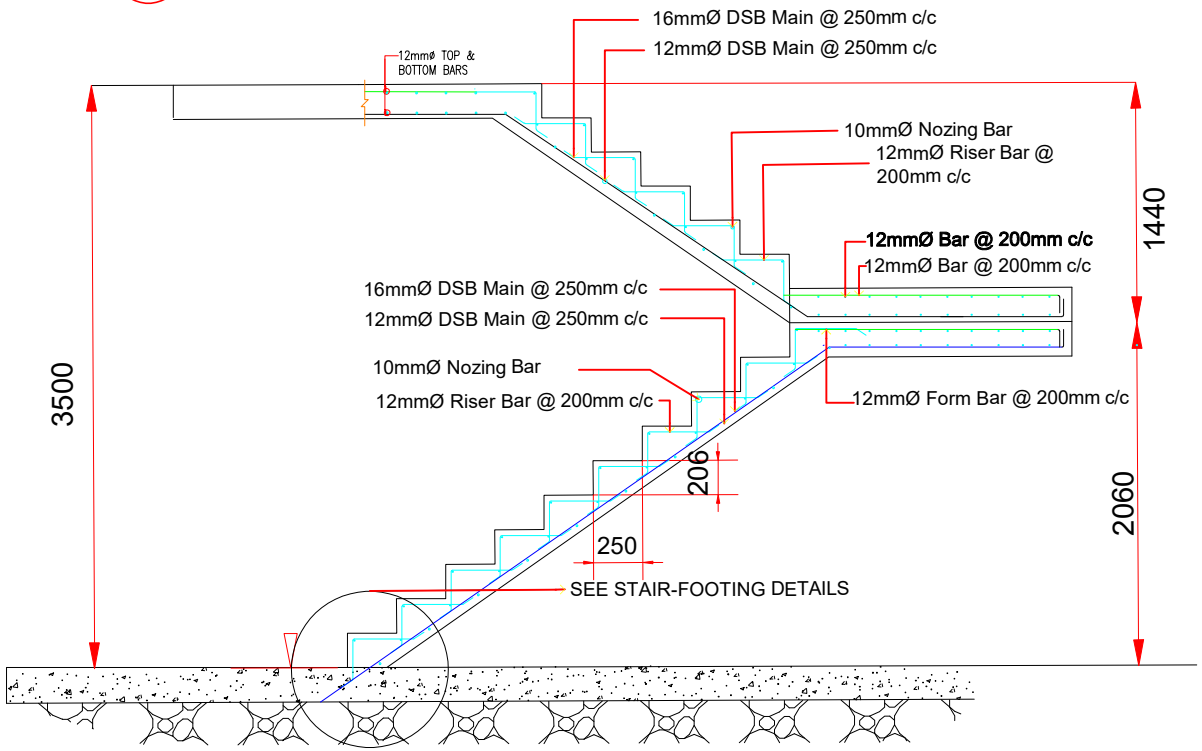
TYPICAL SECTIONS DETAILS OF ROOF DECK SLAB

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-13



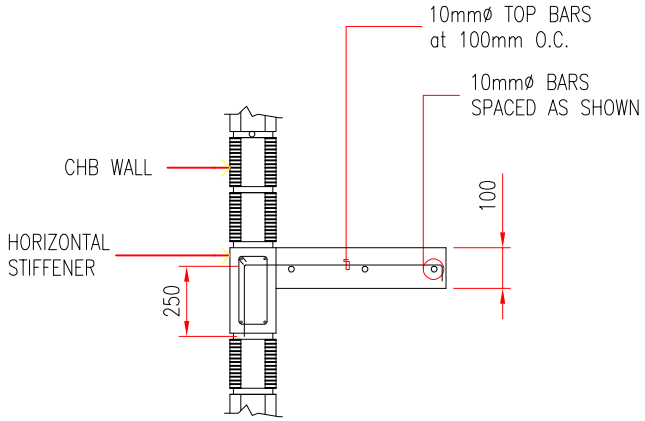
TERRACE EXIT

1 S-14 DETAILS PLAN OF STAIRWELL 2

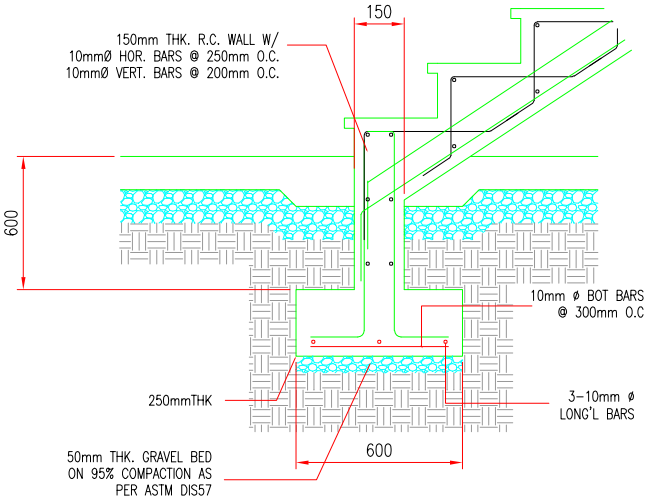


BALCONY EXIT

2 S-14 DETAILS SECTION OF STAIRWELL 2

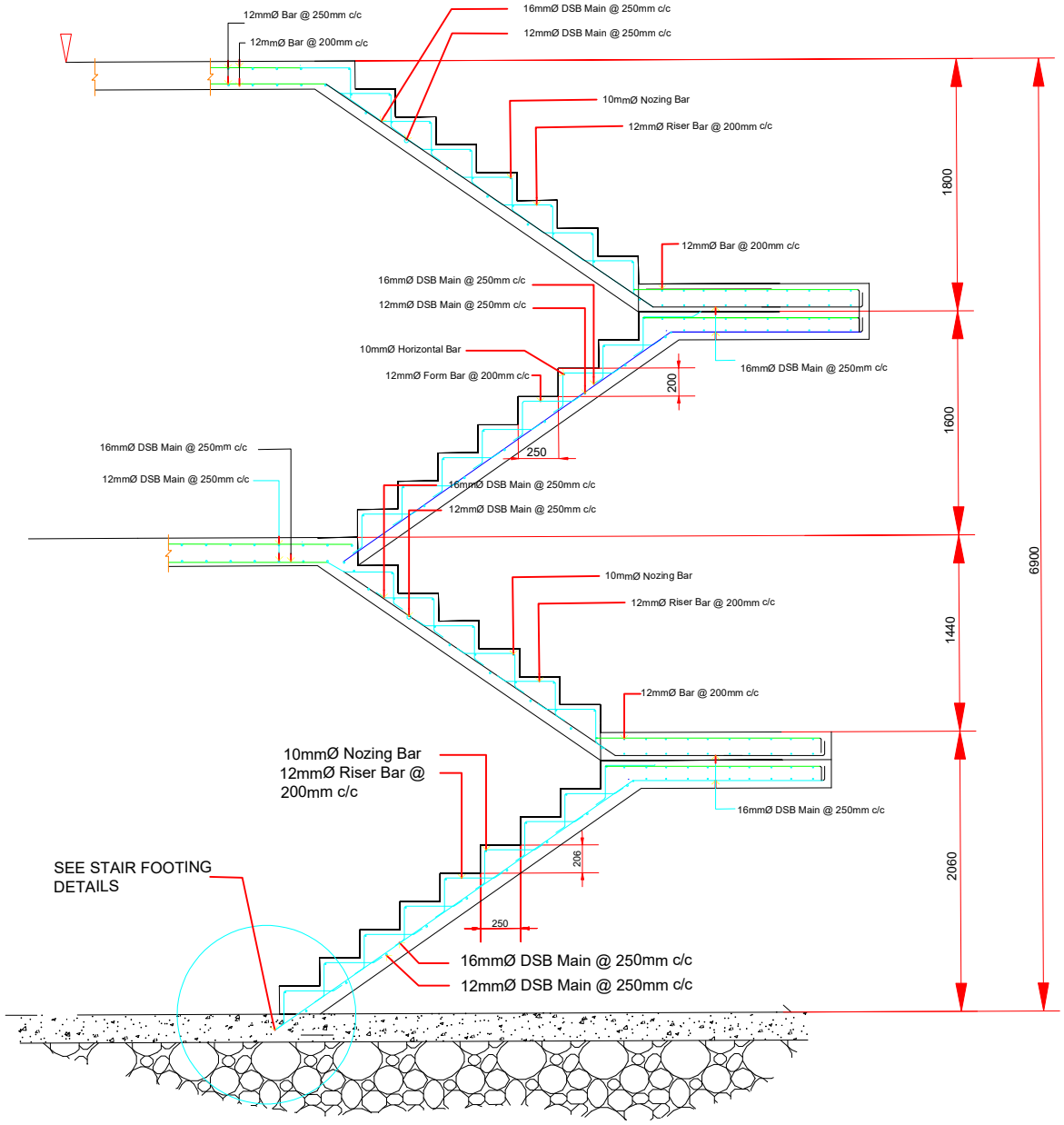


3 S-14 TYPICAL LEDGE DETAILS



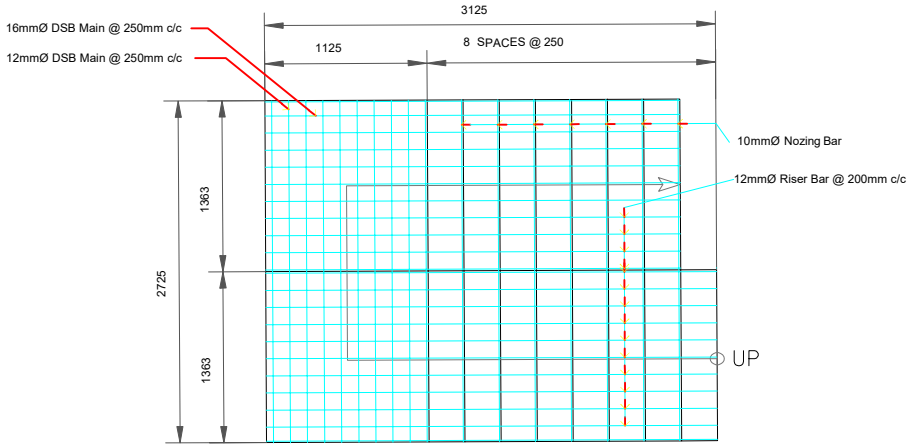
4 S-14 STAIR - FOOTING DETAILS

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-14

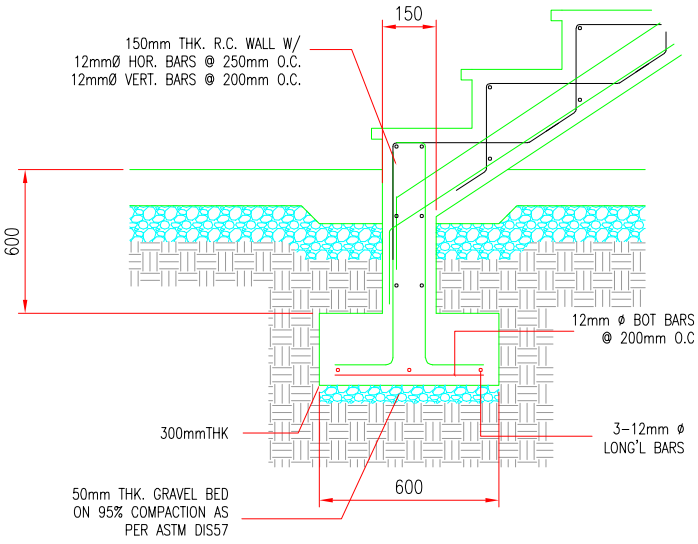


MAIN ENTRANCE

1 S–15 DETAILS SECTION OF STAIRWELL 1

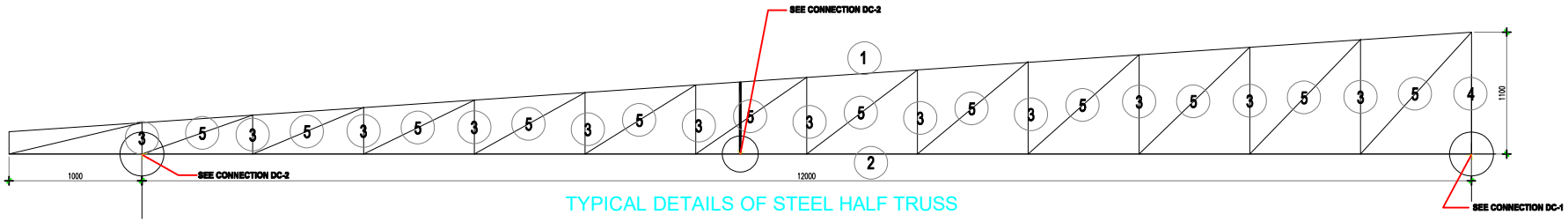


2 S–15 DETAILED PLAN OF STAIRWELL 1

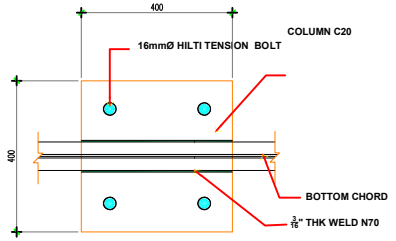


3 S–15 STAIR - FOOTING DETAILS

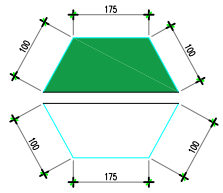
PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-15



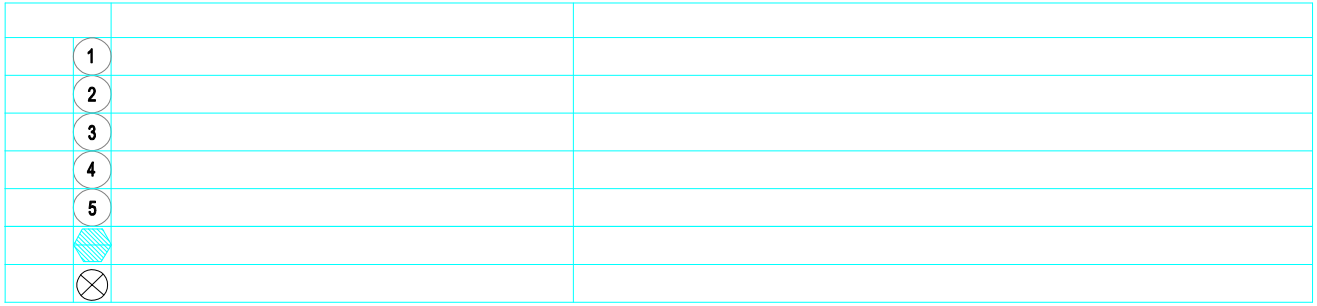
TYPICAL DETAILS OF STEEL HALF TRUSS

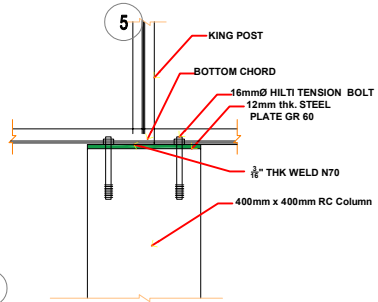


SECTION
DETAIL CONNECTION DC2

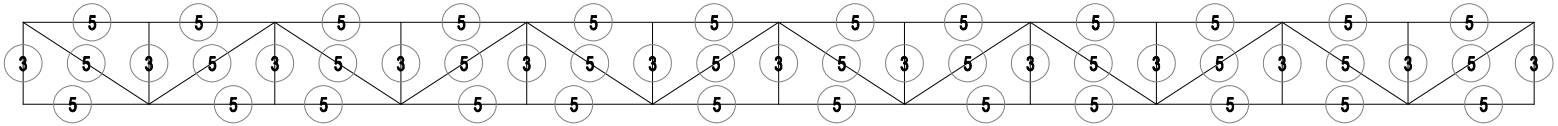


6MM THK. GUSSET PLATE

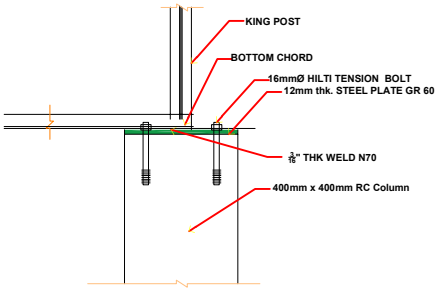




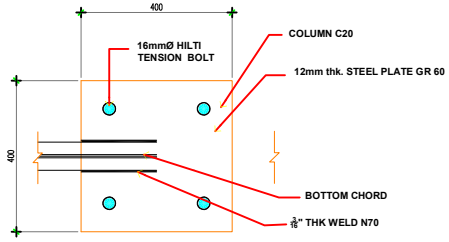
PLAN
DETAIL CONNECTION DC2



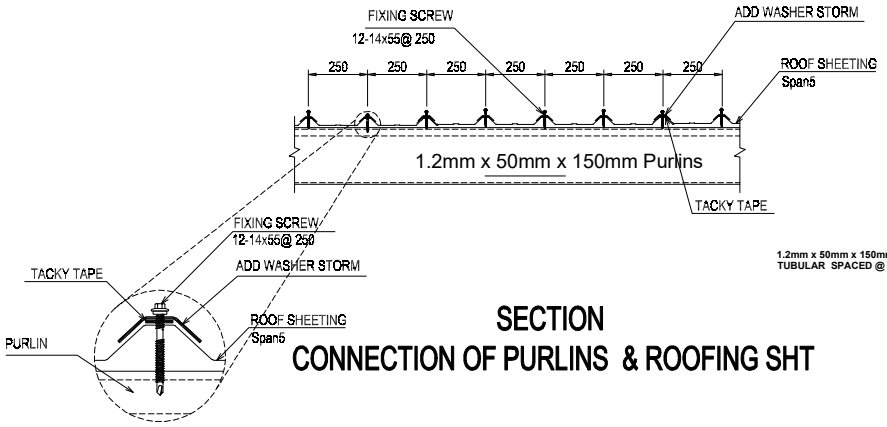
TYPICAL DETAILS OF BRACE TRUSS



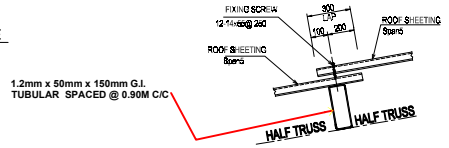
SECTION
DETAIL CONNECTION DC1



PLAN
DETAIL CONNECTION DC1



SECTION
CONNECTION OF PURLINS & ROOFING SHT



CONNECTION OF
PURLINS & ROOFING SHT

1
S–16

SECTION DETAIL CONNECTION

	PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
	REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-16

CONSTRUCTION SPECIFICATION AND CONSTRUCTION NOTES

THIS PROJECT SPECIFICATION IS FORM PART OF THIS GENERAL NOTES.

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY INCONSISTENCIES OR DISCREPANCIES.

2. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.

3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS WHERE NOTES AND DETAILS ON DRAWINGS AND THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE PROJECT SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED AS SHOWN FOR FAMILIAR WORK.

4. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE FOLLOWING CODES:
UNIFORM BUILDING CODE, 1994 EDITION
NATIONAL STRUCTURAL CODE OF THE PHILIPPINES VOLUME I CURRENT EDITION AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.

5. MANUFACTURED MATERIALS SHALL BE APPROVED BY THE CHECKING AGENCY PRIOR TO THEIR USE. ALL REQUIREMENTS OF THOSE APPROVALS SHALL BE FOLLOWED.

7. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS.
B. SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.
C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
D. EXTERIOR WALL SYSTEM.
E. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS.
F. STAIR FRAMING AND DETAILS.
G. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

7. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL, ROOF AND FLOOR OPENINGS, ETC., NOT SHOWN OR NOTED.

B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.

C. ANCHORAGE AND BRACING FOR ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT TO THE STRUCTURE.

D. ANCHOR BOLTS FOR MOTOR MOUNTS.

E. SIZE, WEIGHT AND LOCATION OF MACHINES AND EQUIPMENT BASES.

9. MECHANICAL AND ELECTRICAL LOADS MAY BE SUPPORTED FROM BEAMS. LIGHT MECHANICAL AND ELECTRICAL LOADS ANCHORED INTO METAL DECK ASSEMBLY MUST BE ANCHORED INTO STRUCTURAL CONCRETE ABOVE SEE STEEL DECKING NOTES IF NO CONCRETE IS USED. STAIR FRAMING, WHEN NOT SPECIFICALLY DETAILED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, SHALL BE THE DESIGN RESPONSIBILITY OF THE CONTRACTOR AND MAY BE SUPPORTED BY THE PRIMARY STRUCTURE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL ANCILLARY MEMBERS INCLUDING BUT NOT LIMITED TO BEAMS, COLUMNS, POSTS, FOOTINGS, STIFFENERS, GUSSETS, KICKERS, BRACES, ETC., AND THE ATTENDANT CONNECTIONS, AS REQUIRED BY THE BUILDING STRUCTURAL ENGINEER, TO SUPPORT LOADS IMPOSED BY THE STAIR FRAMING ON THE PRIMARY STRUCTURE. STAIR FRAMING SHALL BE DESIGNED TO NOT IMPOSE ANY TORSIONAL LOADS ON THE PRIMARY STRUCTURE. SPECIAL STAIR FRAMING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE STRICTLY ADHERED TO BY THE CONTRACTOR.

10. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

11. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC. LARGER THAN 6 INCHES NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.

12. SPECIFICATIONS, CODES AND STANDARDS NOTED IN THE CONTRACT DOCUMENTS SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS OTHERWISE NOTED. MATERIAL SPECIFICATIONS ARE ASTM LATEST EDITION THE CONTRACTOR SHALL INVESTIGATE SITE FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.

13. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH OR WHERE OVERLOAD ISANTICIPATED.

14. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER THE ORIGINAL COPIES AND TWO (2) SETS OF PRINT OF STRUCTURAL AS BUILT PLANS SHOWING ALL WORKS DONE, INCLUDING CHANGES IF ANY. THESE PLANS SHALL BE MARK CERTIFIED TRUE AND CORRECT AND SIGNED BY THE CONTRACTOR.

NOTES ON FOUNDATION

1. FOUNDATION DESIGN WAS BASED ON GEOTECHNICAL REPORT CONDUCTED BY TERMS CONCRETE TESTING ON AUG. 01- 02, 2024 AND WAS ANALYZED & PREPARED BY ENGR. MIGUEL DIMADURA for the REHABILITATION OF PEZA CEZ Building.
The Soil Bearing Capacity used is based on Tarzhaggi's Formula

2. SOIL BEARING CAPACITY OF 280 Kpa , H20 level @ 4.30m and DEPTH OF FOOTING @ 2.00 m from NGL. DISTANCE NEAREST FAULT LINE =18.60Kms from WEST VALLEY FAULT @ Magnitude 7.2 (M7.2).

3. IF FOUNDED ON VOLCANIC TUFF (ADOBE) AND WHERE FISSURE(S) EXIST FOOTING SHALL FIRST BE CLEANED OF LOOSE SOIL OR ROCK AND FISSURE(S) TO BE PLUGGED WITH CONCRETE OF 1:3:6 MIXTURE BEFORE REINFORCEMENTS ARE PLACED.

4. NO FOOTING SHALL REST ON FILL.

5. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 75MM FOR CONCRETE DEPOSITED AGAINST THE GROUND.

6. SLABS ON GRADE FOR BUILDINGS SHALL BE SUPPORTED ON ENGINEERED COMPACTED FILL COMPACTION SHALL BE NO LESS THAN 95% OF OPTIMUM DENSITY AND SHALL CONFORM TO ASTM D1557.

7. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE.

8. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATING AND SHORING REQUIRED TO SAFELY RETAIN THE EARTH BANKS.

9. EXCAVATION AND COMPACTING IF REQUIRED, SHALL BE APPROVED BY THE GOVERNING AGENCY AND THE FOUNDATION ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. FOUNDATION ENGINEER TO SUBMIT LETTER OF COMPLIANCE TO OWNER.

10. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE WALLS HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.

11. FOOTINGS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE FOUNDATION ENGINEER, FOOTING ELEVATIONS WILL BE ALTERED AS REQUIRED.

12. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS, IN ACCORDANCE WITH SOIL REPORT. FLOODING WILL NOT BE PERMITTED.

13. ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

14. ALL EARTHWORK SHALL BE DONE IN ACCORDANCE WITH SOILS REPORT RECOMMENDATIONS.

LOADING CRITERIA PURSUANT TO 2015 NSCP

A. DEAD LOADS
1. REINFORCED CONCRETE 23.54 KN/m
2. SUPERIMPOSED DEAD LOADS:
2.1 SELFWEIGHT
2.2 6 CHB 4.52 KN/m
2.3 FLOOR LOAD 5.216 KPa
2.4 PARAPET WALL 1.246 KPa

B. LIVE LOADS
1. FLOOR 1.92 KPA
2. STAIR 2.00 KPA
3. STORAGE 4.80 KPA

NOTES ON CONCRETE MIXING & PLACING

1. UNLESS OTHERWISE INDICATED IN THE PLANS OR NOTED ON THE SPECIFICATIONS, THE MINIMUM 28-DAY CYLINDER COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS FOLLOWS:
1.1 FOOTINGS fc' 4000 psi
1.2 COLUMNS fc' 4000 psi
1.3 SUSPENDED SLAB, R.C. BEAMS & GIRDERS SHEAR WALLS fc' 4000 psi
1.4 PARAPETS AND CURTAIN WALLS, FILLER WALLS AND GUTTER fc' 3000 psi
1.5 SLAB ON FILL/GRADE, STAIRS AND CONCRETE LEDGES fc' 3000 psi
1.6 RETAINING WALL, SHEAR WALL, LOAD BEARING WALL fc' 3000 psi
1.7 BORED PILES fc' 5000 psi
1.8 LEAN CONCRETE fc' 3000 psi

2. CONCRETE SHALL BE IN ITS FINAL POSITION WITHOUT FLOWING, PLACING SHALL BE DONE PREFERABLE BUGGIES, BUCKETS OR WILL NO CHUTES SHALL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEEL BARROWS OR BUCKETS IN WHICH CASE THEY WILL NOT EXCEED 6100mm IN AGGREGATE LENGTH.

3. NO DEPOSITING NOF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS OTHERWISE. IN WRITING BY THE DESIGNERS AND ONLY FOR UNSUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR TYPE II, LOW ALKALI.

5. AGGREGATE FOR HARDROCK CONCRETE - C-33. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.

6. FORMS FOR CONCRETE SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS SHOWN ON THE DRAWINGS.

7. THE CONTRACTOR SHALL MAINTAIN A LOG OF STRUCTURAL SLAB ELEVATIONS BASED ON THE ARCHITECTURAL DRAWINGS PLUS THE ADDITION OF ANY CAMBERS INDICATED ON THE CONSTRUCTION DOCUMENTS. THIS LOG SHALL INDICATE SCREED ELEVATIONS PRIOR TO THE CONCRETE POUR, AND TOP OF CONCRETE SLAB PRIOR TO REMOVAL OF FORMS.

8. THE CONCRETE SLAB THICKNESS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN.

9. DRY PACK OR NON SHRINK GROUT UNDER BASEPLATES, SILL PLATES, ETC., SEE CONTRACT DOCUMENTS.

10. CONCRETE MIXING OPERATION, ETC., SHALL CONFORM TO C-94.

11. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 304 AND CONTRACT DOCUMENTS, SANDBLAST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.

12. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

13. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.

14. CONDUIT OR PIPE SIZE (O.D) SHALL NOT EXCEED ONE THIRD OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.

15. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 19MM CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.

16. CURING COMPOUNDS USED ON CONCRETE TO RECIEVE A FINISH SHALL BE APPROVED BY THE FINISH APPLICATOR BEFORE USE.

NOTES ON REINFORCED STEEL

1. UNLESS OTHERWISE SPECIFIED IN THE PLANS, THE MINIMUM YIELD STRENGTH OF REINFORCEMENT TO BE USE ORRESPONDING TO THE STRUCTURAL MEMBER SHALL BE AS ENUMERATED BELOW:

1.1 FOOTING AND FOOTING BEAMS fy 60000 psi
1.2 COLUMNS fy 60000 psi
1.3 SUSPENDED SLABS fy 40000 psi
1.4 R.C. FLOOR BEAMS AND GIRDERS fy 60000 psi
1.5 PARAPETS AND CURTAIN WALLS fy
FILLER WALLS, CUTTER AND STAIRS
1.6 SLAB ON FILL/GRADE, BEDDED SLABS fy 40000
PARTITIONS, SIDEWALKS AND PAVEMENTS, CATCH BASINS, SUMP PITS, SEDIMENTATION TANKS, MANHOLES AND OTHER RELATED SANITARY STRUCTURES
1.7 RETAINING WALLS AND LOAD BEARING WALLS fy 60000 psi
1.8 COLUMN TIES AND STIRRUPS fy 40000 psi

2. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318), AND THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION BY THE C.R.S.I. AND THE W.C.R.S.I. OR AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.

3. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

4. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE VERTICAL REINFORCEMENT RESPECTIVELY, UNLESS NOTED OTHERWISE.

5. ALL BARS SHALL BE MARKED SO THEIR SPECIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.

6. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 152.4MM OR ONE FULL MESH PLUS 50.8MM, WHICHEVER IS GREATER.

7. REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWING.

8. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE VERTICAL REINFORCEMENTS RESPECTIVELY, UNLESS NOTED OTHERWISE.

9. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.

NOTES ON MASONRY

1. CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO C90 GRADE N NORMAL WEIGHT USE UNITS OPEN ONE END, AND LOAD BEAM UNITS AT HORIZONTAL REINFORCING.

2. CEMENT SHALL BE SPECIFIED FOR CONCRETE.

3. MORTAR MIX SHALL CONFORM ITS REQUIREMENTS FOR TYPE I OF PROJECT SPECIFICATIONS. MORTAR SHALL ATTAIN A COMPRESSIVE STRENGTH OF 12.4 MPA AT 28 DAYS. ADMIXTURE SHALL BE THE SAME LABEL.

4. GROUT SHALL CONFORM TO REQUIREMENTS FOR COARSE GROUT. GROUT SHALL ATTAIN A COMPRESSIVE STRENGTH OF13.8 MPA AT 28 DAYS ADMIXTURE SHALL BE SKA GROUT AND OR EQUAL.

5. ADMIXTURES SHALL BE ADDED TO MORTAR OR GROUT RESPECTIVELY PER MANUFACTURER'S RECOMMENDATIONS.

6. PROVIDE A MINIMUM OF ONE BAR DIAMETER (330 MM MINIMUM) GROUT BETWEN MAIN REINFORCING AND MASONRY UNITS.

7. LOW-LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 1219 MM.

8. HIGH-LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH CHAPTER 24 OF THE GOVERNING CODE.

9. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, UNLESS NOTED OTHERWISE.

10. CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.

11. REFER TO ARCHITECTURAL DRAWING FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.

12. ASSUMED ULTIMATE COMPRESSIVE STRENGTH OF COMPLETED MASONRY WALL IS 10.34 MPA U.N.O.

1. ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR FROM BOTTOM OF SLAB.

2. LENGTH OF BAR CUT-OFF SHALL BE SPECIFIED ON ST-1C.

3. IF SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORT SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN FOR BOTTOM BARS AND OVER THE LONGER SPAN BARS FOR TOP BARS.

4. TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0018 BT. (SEE SCHEDULE ON ST-1C)

5. UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS, CAMBER ALL R.C. SLAB 3mm PER 3000mm OF SHORTER SPAN.

6. UNLESS OTHERWISE NOTED IN PLANS, ALL BEDDED SLABS ARE TO BE REINFORCED WITH 10mmØ AT 250mm O.C.

7. PROVIDE EXTRA REINFORCEMENT FOR CORNER SLAB (2 ADJACENT DISCONTINUOUS EDGE AS SHOWN ON ST-1C).

NOTES ON COLUMNS

1. CONFINEMENT TIES SHALL BE PROVIDED ON ALL COLUMNS AT BEAM COLUMN JOINTS UNLESS OTHERWISE SHOWN IN PLANS.

2. COLUMN TIES AND SPIRALS SHALL BE PROTECTED UNIFORMLY BY A COVERING OF CONCRETE MONOLITHICALLY WITH THE CORE OF MINIMUM THICKNESS OF 38mm AND NOT LESS 1/2 TIMES THE SIZE OF COARSE AGGREGATES.

NOTES ON CONCRETE WALLS

1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE NOTED ON PLANS. REINFORCNG BARS SHALL HAVE A 38mm MINIMUM CLEAR DISTANCE FROM WALL FACE EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE THE MINIMUM OF 75mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

2. CARRY VERTICAL BARS AT LEAST 600mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES. ELSEWHERE STOP AT 50mm BELOW THE TOP OF THE SLAB OR SOLID BOND WHERE THE WALL ENDS. HORIZONTAL AND VERTICAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO FORTY (40) BAR DIAMETER AND WIRED SECURELY WITH NO.16 G.I. WIRE PROVIDED THAT THE ADJACENT BARS ARE STAGGERED AT LEAST 1500mm O.C.

3. UNLESS OTHERWISE NOTED IN THE PLAN, ALL OPENING IN WALLS 250mm THICK OR THICKER SHALL BE REINFORCED WITH 2-20mmØ BARS. FOR 230mm, 200mm, 180mm AND 150mm WALLS, USE 2-16mmØ BARS. FOR 130mm, AND 100mm, USE 2-12mmØ BARS. (ALL WALL OPENINGS SHALL HAVE A VERTICAL REINFORCEMENT BENT TO U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED. ALL CONCRETE WORK SHALL BE REINFORCED WITH BARS OF AREA AT LEAST EQUAL TO THAT SPECIFIED IN ACI-318-91 BUILDING CODE.

NOTES ON REINFORCED
CONCRETE BEAMS & GIRDERS

1. UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATION CAMBER ALL R.C. BEAMS AT LEAST 6MM FOR EVERY 4500MM AT SPAN EXCEPT CANTILEVERS WHICH SHALL BE 18MM FOR EVERY 3000MM OF CLEAR SPAN.

2. LENGTH OF BAR CUT-OFFS AND BAR CLEARANCES SHALL BE AS SPECIFIED

3. IF BEAM REINFORCING BARS END IN A WALL, THE CLEAR DISTANCE FROM THE BAR TO THE FURTHER FACE OF THE WALL SHALL NOT BE LESS THAN 5 BAR DIAMETERS. THE REINFORCING BARS SHALL TERMINATE ON A STANDARD 90 DEGREE HOOK, MINIMUM EMBEDMENT SHALL BE 40 BAR DIAMETERS FOR COMPRESSION BARS.

4. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25MMØ SEPARATORS BETWEEN LAYERS OF BARS AT 900MM ON CENTER IN NO CASE SHALL THERE BE LESS TAHN TWO SEPARATORS BETWEEN LAYERS OF BARS.

5. MINIMUM CONCRETE PROTECTION OF REINFORCING BARS OR SHAPES SHALL BE AS SHOWN.

6. WHEN A BEAM CROSSES A GIRDER, REST BEAM BARS ON TOP OF GIRDER BARS AT COLUMN INTERSECTION, GIRDER BARS SHALL BE ON TOP OF BEAM BARS.

7. GENERALLY, NO SPLICE SHALL BE BE PERMITTED ON BEAMS AT POINTS WHERE CRITICAL BENDING STRESSES OCCURS, SPLICES WERE PERMITTED SHALL BE SIXTY (60) BAR DIAMETER FOR PLAN BARS AND FOR DEFORMED BARS, AS ABSE ON THE PROVISION IN CHAPTER 12 OF WHEN LAPPED, WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST OF THE WELD STRENGTH OF THE BAR NOT MORE THAN 50% OF THE BARS AT ANY SECTION SHALL BE SPLICED THEREIN.

PROJECT TITLE	PREPARED BY	CHECKED BY	RECOMMENDING APPROVAL	APPROVED BY	DESIGNED BY	SHEET NUMBER
REHABILITATION OF FIRE STATION LOCATION: PEZA-CEZ, ROSARIO, CAVITE	**Engr. RENZEL G. ABELLANOSA** CIVIL ENGINEER	**Engr. CHARLES ALDRIN N. BAYBAY** DIVISION CHIEF II, EMD	**Engr. JOSE A. IBASCO** ACTING DM OF OPERATIONS	**Atty. NORMA B. TAÑAG** ZONE ADMINISTRATOR, CEZ	RGA CHECKED BY	S-17

Section VIII. Bill of Quantities

PHILIPPINE ECONOMIC ZONE AUTHORITY

CAVITE ECONOMIC ZONE

BILL OF QUANTITIES

NAME OF PROJECT : REHABILITATION OF CEZ FIRE STATION
LOCATION : CAVITE ECONOMIC ZONE, ROSARIO, CAVITE

Columns (1), (2), (3) and (4) area to be filled up by the Procuring Entity				Columns (5) and (6) are to be filled up by the Bidder	
Pay Item	**Description**	**Quantity**	**Unit**	**Unit Price (Pesos) in Figure**	**Total Amount (Pesos) in Figure**
-(1)	*-(2)*	*-(3)*	*-(4)*	*-(5)*	*-(6)*
1	Mobilization/Demobilization	1.00	lot		
2	Safety and Health				
	Construction Safety and Health Program	1.00	lot		
	Project Billboard	1.00	lot		
3	Earthworks				
	Structural Excavation	13.27	cu.m.		
	Embankment from Excavation and Compaction	7.14	cu.m.		
	Gravel Fill (Footing) and Compaction	1.00	cu.m.		
4	Termite Control	4.00	lits.		
5	Concrete Works				
	Structural Concrete	91.99	cu.m.		
	Retrofitting Works	1.00	lot		
	Concrete Ledges	2.47	cu.m.		
	Reinforcing Steel	17,113.45	kgs.		
	Formworks and Falseworks	845.85	sq.m.		
6	Masonry Works				
	Masonry Wall	337.90	sq.m.		
7	Roofing Works				
	Pre-painted Insulated Roof Panel	416.00	l.m.		
	Roofing Accessories (Gutter and Flashing)	80.80	l.m.		
8	Steel Works				
	Steel Trusses	4,700.39	kgs.		
	Purlins	460.80	kgs.		
	Stainless Steel Railings	157.89	l.m.		
9	Doors and Windows				
	Doors	40.83	sq.m.		
	Windows	87.72	sq.m.		
10	Interior Partition Works				
	Dry Wall Partition	18.00	sq.m.		
11	Finishing Works				
	Plain Cement Plaster Finish	675.79	sq.m.		
	Tile Works, Quartz & Rubberized Paint	973.67	sq.m.		
	Waterproofing - Canopy Ledges	23.53	sq.m.		
12	Carpentry Works				
	Ceiling Works	590.16	sq.m.		
13	Painting Works				
	Masonry Painting	1,367.52	sq.m.		
	Ceiling Painting	408.91	sq.m.		
	Steel, Wood and Existing Cabinets & Existing Perimeter Fence	614.18	sq.m.		

Submitted by:

Name and Signature of Bidder's Reprentative
Position
Name of Contractor

Columns (1), (2), (3) and (4) area to be filled up by the Procuring Entity				Columns (5) and (6) are to be filled up by the Bidder	
Pay Item	**Description**	**Quantity**	**Unit**	**Unit Price (Pesos) in Figure**	**Total Amount (Pesos) in Figure**
-(1)	*-(2)*	*-(3)*	*-(4)*	*-(5)*	*-(6)*
14	Miscellaneous Works				
	Fit-out and Furnitures	1.00	lot		
	Stainless Letters and PEZA logo	1.00	lot		
	Removal/Demolition and Hauling Works	1.00	lot		
	Application of Water Proofing Membrane (Roof Deck & 2F T&B)	215.75	sq.m.		
	Fabrication of Canopy	8.40	sq.m.		
	Base and Overhead Cabinet	16.32	sq.m.		
	Removal/Cutting of Trees	1.00	lot		
15	Mechanical Works				
	Installation of 2 Units Inverter Type Airconditioner, 220V, Single Phase	1.00	lot		
16	Plumbing and Sanitary Works				
	Plumbing Fixtures	1.00	lot		
	Water Line	1.00	lot		
	Sewer Line	1.00	lot		
	Downspout/Storm Drainage	1.00	lot		
	Catch Basin	13.00	units		
	Septic Tank (Cover)	1.00	l.s.		
17	Electronic Works				
	Fire Detection Alarm System	1.00	lot		
18	Electrical Works				
	Lighting Fixtures, Ventilations and Outlets	1.00	lot		
	Conduit, Boxes and Fittings	1.00	l.s.		
	Panelboards	1.00	lot		
	Electrical Wirings	1.00	l.s.		
				Total Project Cost (Pesos) in Figure	
(Total Project Cost in Words)					

Submitted by:

Name and Signature of Bidder's Reprentative
Position
Name of Contractor

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or

b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

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

Technical Documents

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

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

☐ (d) a valid Philippine Contractors Accreditation Board (PCAB) License or Special PCAB License in case of Joint Ventures **and** registration for the type and cost of the contract to be bid; **and**

☐ (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).

(i) The bidder's audited financial statements, showing, among others, the

bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

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

☐ (n) Cash Flow by Quarter.

III. ADDITIONAL DOCUMENTS

a. Signed Specifications / Scope of Works

b. Certificate of Site Inspection issued by the CEZ-Engineering & Maintenance Division.

c. At least TWO (2) Certificate of Satisfactory Performance for completed projects issued by different contracting clients indicating that is has not incurred delay or negative slippage in the performance of its contract supported by accomplishment report and Gantt chart. Certificate of Satisfactory Performance issued by at least two (2) of its biggest contracting clients indicating that is has not incurred delay or negative slippage in the performance of its contract supported by accomplishment report and Gantt chart

Section X. Bid Forms

Revised and updated soft copy of GPPB issued forms/template can be downloaded thru the following link:

https://www.gppb.gov.ph/downloadable-forms/#tab-61412

PHILIPPINE ECONOMIC ZONE AUTHORITY

ANNEX A

Rehabilitation of CEZ Fire Station at the Cavite Economic Zone
Reference No. CEZITB 2024-10-009

List of all Ongoing Government & Private Contracts including contracts awarded but not yet started

Business Name : _____

Business Address : _____

Name of Contract/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Date Awarded b. Date Started c. Date of Completion	% of Accomplishment		Value of Outstanding Works/Undelivered Portion
			Description	%		Planned	Actual	
Government								
Private								
						Total Cost		

Submitted by : _____
(Printed Name & Signature)

Designation : _____

Date : _____

Instructions:

1. State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project to be bid;
2. If there is no ongoing contracts including those awarded but not yet started as of the aforementioned perioid, state none or equivalent terms;
3. The total amount of the ongoing and awarded but not yet started contract should be consistent with those used in the Net Financial Contracting Capacity (NFCC).

ANNEX B

PHILIPPINE ECONOMIC ZONE AUTHORITY

Rehabilitation of CEZ Fire Station at the Cavite Economic Zone
Reference No. CEZITB 2024-10-009

Statement of Single Largest Completed Contract which is similar in nature

Business Name : _____

Business Address : _____

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

Note: This attachment shall be supported with:

1. NOA / NTP / Contract
2. Certificate of Completion and Acceptance or CPES Rating
3. Official Receipts for Private Contracts

Submitted by : _____
(Printed Name & Signature)

Designation : _____

Date : _____

Instruction:

a) state the single largest completed contract (government or private) within the last five (5) years prior to bid opening.

Statement of Availability of Key Personnel and Equipment

(Date of Issuance)

Ms. Jessica M. Itaas
Chairperson
Bids and Awards Committee (BAC)
PEZA – Cavite Economic Zone
Rosario, Cavite

Dear Sir:

In compliance with the requirements of the **PEZA - Cavite Economic Zone** for the bidding of the project **"Rehabilitation of CEZ Fire Station at the Cavite Economic Zone"**, we certify that ***(Name of the Bidder)*** has in its employ key personnel, such as project managers, project engineers, materials engineer and foreman, who may be engaged in the implementation of the said contract.

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

Very truly yours,

(Name of Representative)
(Position)
(Name of Bidder)

ANNEX D

Philippine Economic Zone Authority – CEZ
Rehabilitation of CEZ Fire Station at the Cavite Economic Zone
Reference No. CEZITB 2024-10-009

Qualification of Key Personnel Proposed to be Assigned to the Contract

Business Name : _____
Business Address : _____
_____

	Project Manager	Project Engineers	Materials Engineers	Construction Foreperson (Foreman)	Safety Officer
1 Name					
2 Address					
3 Date of Birth					
4 Employed Since					
5 Experience					
6 Previous Employment					
7 Education					
8 PRC License					

Note: Attach individual biodata / resume and PRC License of the (Professional) Personnel

Bidder's Representative : _____
(Printed Name and Signature)
Designation : _____

Date : _____

ANNEX E

Philippine Economic Zone Authority – CEZ
Rehabilitation of CEZ Fire Station at the Cavite Economic Zone
Reference No. CEZITB 2024-10-009

List of Equipment Owned / Leased and/or under purchase agreements, assigned to the Proposed Contract

Bidder's Name : _____
Bidder's Address : _____

Description	Model / Year	Capacity / Performance / Size	Plate No.	Motor No. / Body No.	Location	Condition	Proof of Ownership
A. Owned							
1.							
2.							
3.							
B. Leased							
1.							
2.							
3.							
C. Under Purchase Agreement							
1.							
2.							
3.							

Bidder's Representative : _____
(Printed Name and Signature)

Designation : _____

Date : _____

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

AFFIDAVIT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

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

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

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.

2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.

3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:

    a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
    b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
    c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

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

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

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]

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]

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

To: [name and address of Procuring Entity]

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

a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract];*

b. We offer to execute the Works for this Contract in accordance with the PBDs;

c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;

d. The discounts offered and the methodology for their application are: *[insert information]*;

e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties],* which are itemized herein and reflected in the detailed estimates,

f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;

g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines[1] for this purpose;

h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;

i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

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

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

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

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of PROCURING ENTITY]* (hereinafter called the "Entity") and *[name and address of Contractor]* (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute *[name and identification number of contract]* (hereinafter called "the Works") and the Entity has accepted the Bid for *[contract price in words and figures in specified currency]* by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz*.:

   a. Philippine Bidding Documents (PBDs);
   - i. Drawings/Plans;
   - ii. Specifications;
   - iii. Bill of Quantities;
   - iv. General and Special Conditions of Contract;
   - v. Supplemental or Bid Bulletins, if any;

   b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

   Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

   c. Performance Security;

   d. Notice of Award of Contract and the Bidder's conforme thereto; and

   e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**

3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.

4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

[Insert Name and Signature]	*[Insert Name and Signature]*
[Insert Signatory's Legal Capacity]	*[Insert Signatory's Legal Capacity]*
for:	*for:*
[Insert Procuring Entity]	*[Insert Name of Supplier]*

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]

Republic of the Philippines
gppb
Government Procurement Policy Board