PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING AT QCU MAIN CAMPUS (PHASE 2)

Project number:

21-00047

Sixth Edition
July 2020

Preface

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

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

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

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

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

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

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

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

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

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

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

TABLE OF CONTENTS

Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;

b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;

c. The deadline for the submission and receipt of bids; and

d. Any important bid evaluation criteria.

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

REPUBLIC OF THE PHILIPPINES
QUEZON CITY GOVERNMENT
BIDS AND AWARDS COMMITTEE FOR INFRASTRACTURE & CONSULTANCY

2nd floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

May 25, 2021

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
Buildings – Small B							
1	21-00039	Proposed Upgrading of Service Entrance at Payatas B Annex Elementary School	Payatas	1,015,592.29	30	City Engineering Department	Special Education Fund
2	21-00040	Proposed Upgrading of Service Entrance at Carlos P. Garcia High School	E. Rodriguez	1,677,689.20	60	City Engineering Department	Special Education Fund
3	21-00041	Proposed Construction of Vending Site at Mangga Street	Katipunan	2,077,798.42	60	City Engineering Department	Engineering Department
4	21-00042	Proposed Rehabilitation of Electrical System at Demetrio Tuazon Elementary School	Lourdes	2,554,487.62	90	City Engineering Department	Special Education Fund
5	21-00043	Proposed Rehabilitation of Old Barangay Hall at Barangay Libis (Phase 2)	Libis	3,282,450.73	90	City Engineering Department	Engineering Department
6	21-00044	Proposed Construction of Stage at San Francisco Elementary School	Del Monte	3,299,250.05	90	City Engineering Department	Engineering Department-Continuing
7	21-00045	Proposed Rehabilitation of Electrical System at Police Station 5	Fairview	3,330,404.77	90	City Engineering Department	Engineering Department
Buildings – Medium A							
8	21-00046	Proposed Construction of Sto. Domingo Multi-Purpose Building (Phase 1)	Sto. Domingo	122,645,062.03	420	City Engineering Department	OCM-20% Community Development Fund
Buildings – Medium B							
9	21-00047	Proposed Construction of Seven (7) Storey Academic Building at QCU Main Campus (Phase 2)	San Bartolome	167,209,016.04	420	City Engineering Department	Trust Fund
10	20-00150B	Proposed Construction of New Kamuning Public Market (Phase 1)	Kamuning	173,882,714.62	510	City Engineering Department	Engineering Department
Roads – Small B							

11	21-00048	Proposed Rehabilitation (Surface Improvement) of Makabayan Street	Obrero	1,394,478.44	20	City Engineering Department	OCM-20% Community Development Fund
12	21-00049	Proposed Rehabilitation (Surface Improvement) of Parkway Street	Obrero	1,470,652.26	20	City Engineering Department	OCM-20% Community Development Fund
13	21-00050	Proposed Rehabilitation (Surface Improvement) of Rolling Road	Obrero	1,764,985.43	25	City Engineering Department	OCM-20% Community Development Fund
14	21-00051	Proposed Rehabilitation (Surface Improvement) of Mabilis Street	Pinyahan	2,570,503.04	25	City Engineering Department	OCM-20% Community Development Fund
15	21-00052	Proposed Rehabilitation (Surface Improvement) of Dasmariñas Street	Damar	3,056,767.14	20	City Engineering Department	OCM-20% Community Development Fund
16	21-00053	Proposed Rehabilitation of Road and Drainage at Ilang-Ilang Street (St. Andrew Subdivision)	Nagkaisang Nayon	4,217,010.66	90	City Engineering Department	OCM-20% Community Development Fund
17	21-00054	Proposed Rehabilitation (Surface Improvement) of Corumi Street	Masambong	5,754,890.03	40	City Engineering Department	OCM-20% Community Development Fund
18	21-00055	Proposed Rehabilitation of Road and Drainage at Batangas Street	Alicia	6,645,595.96	120	City Engineering Department	OCM-20% Community Development Fund
19	21-00056	Proposed Rehabilitation of Road and Drainage at Actuarial Street	Bahay Toro	8,773,209.77	150	City Engineering Department	OCM-20% Community Development Fund
20	21-00057	Proposed Rehabilitation of Road and Drainage at Linaw Street	Sienna	10,884,632.54	180	City Engineering Department	OCM-20% Community Development Fund
21	21-00058	Proposed Rehabilitation of Road and Drainage at Road 23	Bahay Toro	14,841,163.26	180	City Engineering Department	OCM-20% Community Development Fund
22	21-00059	Proposed Rehabilitation of Road and Drainage at Zamora Street	Paltok	17,526,621.80	180	City Engineering Department	OCM-20% Community Development Fund

1. The **QUEZON CITY LOCAL GOVERNMENT**, through *funding source of various years* intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract *for the above stated Projects.* Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The **QUEZON CITY LOCAL GOVERNMENT** now invites bids for the above Procurement Project. Completion of the Works is required *as stated above.* Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

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

4. Interested bidders may obtain further information from **QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat** and inspect the Bidding Documents at the address given below *weekdays from **8:00 am. – 5:00 p.m.***

5. A complete set of Bidding Documents may be acquired by interested bidders on ***26 May 2021 (Wednesday)*** from given address and website/s below *and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB.* The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person.*

STANDARD RATES:

Approved Budget for the Contract	**Maximum Cost of Bidding Documents (in Philippine Peso)**
More than 1 Million up to 5 Million	5,000.00
More than 5 Million up to 10 Million	10,000.00
More than 10 Million up to 50 Million	25,000.00
More than 50 Million up to 500 Million	50,000.00
More than 500 Million	75,000.00

The following are the requirements for purchase of Bidding Documents;

1. PhilGEPS Registration Certificate (Platinum – 3 Pages)
2. Document Request List (DRL)
3. Authorization to purchase bidding documents
   3.1 Secretary's Certificate (for corporation)
   3.2 Special Power of Attorney (for sole proprietorship)
4. Notarized Joint Venture Agreement (if applicable)
5. Letter of Intent

It must be duly received by the BAC Secretariat at 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The ***QC- BAC- INFRASTRUCTURE & CONSULTANCY*** will hold a Pre-Bid Conference[1] on **June 3, 2021** at **10:00 AM** at **2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

   Virtual Conference (ZOOM APP)
   Meeting ID: 854 9489 0133
   Password: 273320

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **June 15, 2021. – 9:00AM**. 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 **June 15, 2021 - 10:00 AM** at **2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

   Virtual Conference (ZOOM APP)
   Meeting ID: 810 3646 5257
   Password: 201522

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

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

11. For further information, please refer to:

    ATTY. DOMINIC B. GARCIA
    OIC, Procurement Department
    2nd Floor, Procurement Department,
    Finance Building, Quezon City Hall Compound
    Elliptical Road, Barangay Central Diliman, Quezon City.
    Tel. No. (02)8988-4242 loc. 8506/8710
    Email Add: bacinfra.procurement@quezoncity.gov.ph
    Website: **www.quezoncity.gov.ph**

12. You may visit the following websites:

    For downloading of Bidding Documents: **https://quezoncity.gov.ph/public-notices/procurement/**

By:

ATTY. MARK DALE DIAMOND P. PERRAL
Chairman BAC-Infra and Consultancy

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, **Quezon City Government** invites Bids for the **PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING AT QCU MAIN CAMPUS (PHASE 2),** with Project Identification Number **21-00047**.

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

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2021** in the amount of **One Hundred Sixty-Seven Million Two Hundred Nine Thousand Sixteen Pesos & 04/100 Ctvs. (P 167,209,016.04).**

2.2. The source of funding is:

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

3. Bidding Requirements

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

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

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

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

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and

obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

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

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

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

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

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

6. Origin of Associated Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

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

7.2. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary

requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

7.3. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address on **June 3, 2021 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320**

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

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

10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their

complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

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

11. Documents Comprising the Bid: Financial Component

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

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

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

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

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 **in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph **5** of the **IB.**

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC

shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

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

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

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

Bid Data Sheet

<table>
<tr><th>ITB Clause</th><th></th></tr>
<tr><td>5.2</td><td>For this purpose, similar contracts shall refer to contracts which have the same major categories of work.</td></tr>
<tr><td>7.1</td><td>Subcontracting is not allowed.</td></tr>
<tr><td>10.3</td><td>No additional contractor license or permit is required

In addition, eligible bidders shall qualify or comply with the following:

1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)

Type

Buildings – Medium B</td></tr>
<tr><td>10.4</td><td>The minimum work experience requirements for key personnel are the following:

<table>
<tr><th>Qnty.</th><th>Key Personnel</th><th>General Experience</th><th>Relevant Experience</th></tr>
<tr><td>1</td><td>Project Engineer</td><td>3 years</td><td>3 years</td></tr>
<tr><td>1</td><td>DPWH duly accredited Materials Engineer</td><td>3 years</td><td>3 years</td></tr>
<tr><td>1</td><td>Safety Engineer</td><td>3 years</td><td>3 years</td></tr>
<tr><td>1</td><td>Foreman</td><td>3 years</td><td>3 years</td></tr>
<tr><td>80</td><td>Skilled Worker</td><td>3 years</td><td>3 years</td></tr>
<tr><td>1</td><td>Driver</td><td>3 years</td><td>3 years</td></tr>
<tr><td>150</td><td>Laborer/Helper</td><td>1 year</td><td>3 months</td></tr>
</table>

In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</td></tr>
<tr><td>10.5</td><td>The minimum major equipment requirements are the following:

<table>
<tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr>
<tr><td>Dump Truck</td><td></td><td>1</td></tr>
<tr><td>Welding Machine</td><td></td><td>1</td></tr>
<tr><td>Power Tools</td><td></td><td>as needed</td></tr>
<tr><td>Minor Tools</td><td></td><td>as needed</td></tr>
</table>

In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for</td></tr>
</table>

	the project until its completion. Please see attached bid forms.
12	*[Insert Value Engineering clause if allowed.]*
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts: a) The amount of not less than Php 3,344,180.32 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b) The amount of not less than Php 8,360,450.80 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
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	No additional requirement.
21	**Additional Contract Documents relevant to the Project as required:** **1. Construction Schedule and S-curve,** **2. Manpower Schedule,** **3. Construction Methods,** **4. Equipment Utilization Schedule,** **5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.**

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	Completion of work shall be within 420 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: *[list here the required site investigation reports.]*
7.2	*[Select one, delete the other.]* *[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]* Fifteen (15) years. *[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]* Five (5) years. *[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]* Two (2) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	The date by which operating and maintenance manuals are required is *thirty (30) days* The date by which "as built" drawings are required as part of final payment
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 ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

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

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

Republic of the Philippines
Quezon City
CITY ENGINEERING DEPARTMENT
Civic Center Building B, Quezon City Hall Compound, Elliptical Road
Diliman, Central 1100 Quezon City
Trunk line: +63 2 8988 4242

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT
PROJECT TITLE : PROPOSED CONSTRUCTION OF SEVEN (7) STOREY BUILDING AT QCU MAIN CAMPUS (PHASE 2)
LOCATION: BARANGAY SAN BARTOLOME, DISTRICT 5, QUEZON CITY

I. GENERAL REQUIREMENTS

a. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations and standards. Any works perform contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.

b. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.

c. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.

d. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.

e. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.

f. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.

g. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.

h. Mobilization and Demobilization (if applicable)

   i. Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the operations at the site.

   ii. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.

i. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.

j. Temporary Facilities and Utilities

   i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.

   ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.

iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.

iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.

v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.

vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.

k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.

i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.

ii. The medical room shall be provided in waterproof; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.

iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.

iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.

l. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.

m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

II. SITE WORKS

A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing to work.

B. Removal / demolition of existing structures shall be done in accordance to safety procedures.

C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed.

D. All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted wetting, tamping and rolling.

III. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

a. Delivery, Storage, and Handling: All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.

b. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before

concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.

c. Materials

i. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C – 150).

ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.

iii. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be course, sharp, clean free from salt, dust, loam, dirt and all foreign matters.

iv. Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.

d. Proportioning and Mixing

i. Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions:

Cement : Sand : Gravel

- Class "A" - 1 : 2 : 3
- Class "B" - 1 : 2 : 4
- Class "C" - 1 : 2 ½

ii. Concrete mixture to be used for concrete shall conform with the structural requirements.

iii. Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

e. Forms

i. General – Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be ¼" waterproof plywood and form lumber.

ii. Cleaning of Forms – before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material.

iii. Removal of Forms – forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

f. Placing Reinforcement:

Steel reinforcement shall be provided as indicated, together with all necessary wire tires, chairs, spacer supported and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scale, oil grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such

supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

g. Conveying and Placing Concrete:

i. Conveying – concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.

ii. Placing – concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.

iii. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.

iv. Consolidation of Concrete – concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower cursed that have commenced initial set; and reinforcement embedded in concepts beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall by hand spading and tamping and vibrators shall not be used.

v. Placing Concrete through reinforcement – In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

h. Curing

i. General – All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.

ii. Moist Curing – The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

i. Finishing

i. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form works.

ii. Concrete Slabs on Fill. The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

B. MASONRY

a. Masonry Units (CHB):
100mm thick for all interior walls and 125mm thick for all exterior walls unless otherwise indicated.

Use 400 psi for non-load bearing blocks and 700 psi for load bearing blocks where required.

Where full height walls are constructed with concrete hollow blocks, these shall extend up to the bottom of beam or slab unless otherwise indicated on plans. Provide stiffener columns & lintel beams as specified in the structural drawings or as specified or as deemed required to assure a stabilized wall due to height & other considerations.

b. Sand:

S-1, washed, clean and greenish in color.

c. Mortar:

One part "Portland" cement and two parts sand and water but not more than three parts sand and water.

d. Plaster bond:

Apply plaster bond to all wall area.

C. METAL WORK

a. Description

Metal works shall conform to the approved plans and to the Standard Specifications.

b. Reference Standards

Comply with the latest edition of the following as applicable, unless otherwise specified or modified.

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 1978: Specification for the Design, Fabrication and Erection of Structural Steel for Buildings. Code of Standard Practice for Steel Buildings and Bridges; Specification for Architecturally Exposed Structural Steel.
2. AMERICAN WELDING SOCIETY (AWS): Standard Welding Symbols A2.068; Standard Welding Code D1 1-1973 (Rev 1-73 & 2-74) (To govern if in conflict with AISC)
3. RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS OF THE ENGINEERING FOUNDATION (RCRBJ): Specification for Structural Joists using ASTM A-325-76s Bolts.
4. STRUCTURAL STEEL PAINTING COUNCIL (SSPC): Painting Manual, Vol. 1; Good Painting Practice, Painting Manual, Vol. 2; Systems and Specifications.

c. Source Quality Control

Errors of Shop Drawings, fabrication, correct fitting and alignment of the various metal items or component members shall be the responsibility of the Contractor. However, the Contractor shall permit the Architect or an independent inspection agency, if engaged by the Owner, to inspect work in progress in his shop. Such inspections shall not relieve the Contractor of his responsibility to furnish materials and workmanship in accordance with the Contract Documents.

d. Product Delivery, Handling and Storage

Handle and store in such manner as to prevent damage or disfigurement. Store finished items or components above ground on platforms, pallets or other supports and protect from harmful elements.

e. Protection
The Contractor shall protect any existing work subject to damage during the installation of the specified work and shall adequately protect specified work during installation.

f. Field Quality Control
Facilities shall be provided by the Contractor as needed for the proper inspection of the specified work, including temporary platforms, hoists, protective devices, electric current, etc. Improper workmanship, as determined by the Architect shall be corrected and replaced, at no additional cost to the Owner.

g. Materials
Products shall conform to the respective reference specifications and standards and to the requirements specified herein:

1. STEEL AND IRON: If not specified otherwise, use standard mill-finished structural steel shapes or bar iron incompliance with AISC Specifications for Design, Fabrication and Erection of Structural Steel for Buildings.
2. BOLTS, NUTS, STUDS AND RIVETS: ASTM A 307 & A 325
3. SCREWS: Fed. Spec. FF-S-85, Fed. Spec. FF-S-92, and Fed. Spec. FF-S-111

h. Fabrication
By mechanics skilled in the trade and in accordance with the manufacturer's directions, Metalwork shall be fabricated to allow for expansion and contraction of materials. Provide welding and bracing of adequate strength and durability, with tight, flush joints, dressed smooth and clean. Complete with bolts and nuts.

i. Measurements
Before fabrication, provide necessary field measurements and verify all measurements.

j. Metal Surfaces
Shall be clean and free from all scale, flake, rust, and rust pitting; well-formed and finished to shape and size, with sharp lines, angles and smooth surface. Shearing and punching shall leave clean true lines and surfaces. Weld or rivet permanent connections. Weld and flush rivets shall be used and finished flush smooth on surfaces that will be exposed after installation. Do not use screws or bolts where they can be avoided: when used, heads shall be countersunk, screwed up tight and threads nicked to prevent loosening.

k. Construction
Thickness of metals and details of assembly and supports shall give ample strength and stiffness for the minimum loads specified or indicated.
Joints exposed to weather shall be formed to exclude water.

l. Shop Fabrication
Fabrication and assembly shall be done in the shop to the greatest extent possible.

m. Submittals
Shop Drawings. Submit along with catalogue, cuts, templates and erection and installation details, indicating thickness, type, grade, type of metal and dimensions. Show construction details, reinforcement, anchorage, and installation with relation to the construction.

n. Qualification of Welders
In accordance with AWS D1.1 with procedures, materials and equipment of the type required for the work.

o. Delivery and Storage
Protect from corrosion, deformation and other types of damage. Store items in an enclosed area free from contact with soil and weather. Contractor shall replace and removed damage items with new items.

p. Welding
Use weldingelectrode E70xx and perform welding, welding inspection aqnd corrective welding in accordance with AWS D1.1. Weld in a manner to prevent permanent distortion of the connected parts. Weld continuously along the entire area of contact (except where lack welding is permitted. Do not lack weld exposed to connections.) Grind smooth visible weld in finished installation.

q. Metal Purlins
Metal purlins shall be of high grade galvanized steel with minimum tensile strength of 275 MPA, 1.4mm in thickness.

D. ROOFING WORKS

a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.

b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.

c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

E. WATERPROOFING

a. Waterproofing:

Furnish all labor, materials, equipment, plant and other facilities required to complete all waterproofing work as shown on the drawings and herein specified. All applications shall be strictly performed by an approved waterproofing Contractor.

F. Testing:

Test waterproofed area by seventy-two (72) hours and check for any seepages.

Note: Thickness should be as per Manufacturers Specifications and Installation depending on the Areas to be applied with.

IV. ARCHITECTURAL WORKS

A. WALLS AND FLOOR FINISHES

a. 600mm x 600mm Unglazed Ceramic Tiles including tile adhesive
b. 50mm concrete Topping with Plain Cement Finish
c. Stamp Concrete (Quadrangle)
d. Rubberized Paint (Parking Area)
e. Carpet Tiles including adhesive (Auditorium)
f. 50mm Concrete Topping for Tiles
g. 300mm x 600mm Ceramic Wall Tiles
h. Urinal partition including stainless steel support and accessories
i. Decorative Stones
j. Plastering Guide/ Grooves
k. Aluminum Composite Panel cladding 6mm thk. Nano finish including structural angular framing sections. Backer rod sealant (façade and canopies)

B. CEILING FINISHES

a. 12mm thk Gypsum Board including framing and accessories
b. 12mm thk Moisture Resistant Gypsum Board on lightweight aluminum frames
c. 600mm x 600mm Acoustic Ceiling on T runner (Auditorium)
d. Rubbed Concrete

C. DOORS & WINDOWS

a. Follow as per approved plan and specifications

D. PAINTING WORKS

e. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.

f. Application shall be as per paint Manufacturer's specification and recommendation.

g. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.

h. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.

i. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.

j. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.

k. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

V. SANITARY / PLUMBING WORKS

A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).

B. Supply, installation and testing of the following:

B.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.

B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.

B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

B.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.

D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.

E. Install equipment in strict accordance with manufacturers written recommendations.

F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.

G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.

H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.

I. Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.

J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.

K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.

L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.

M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.

N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.

O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.

P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.

Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.

R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.

S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.

T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.

U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min, then check for leakage at every joints.

V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.

W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.

X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.

Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.

Z. Install lateral bracing with pipe hangers and supports to prevent swaying.

AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.

BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.

CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

VI. ELECTRICAL WORKS

A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).

B. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.

C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.

D. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.

E. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

F. PANELBOARDS

F.1 Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.

F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.

F.2.1 Rated for environmental conditions at installed location.

i. Indoor Dry and Clean Locations: NEMA 250, Type 1.

ii. Outdoor Locations: NEMA 250, Type 3R.

iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.

iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.

v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.

F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.

F.2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.

F.2.4 Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.

F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.

F.2.6 Finishes:

i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.

ii. Back Boxes: Galvanized steel Same finish as panels and trim.

iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.

F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.

F.3 Incoming Mains Location: Top or Bottom.

F.4 Phase, Neutral, and Ground Buses:

F.4.1 Material: Hard-drawn copper, 98 percent conductivity.

F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.

F.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

VII. MECHANICAL WORKS

A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).

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C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes.

D. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.

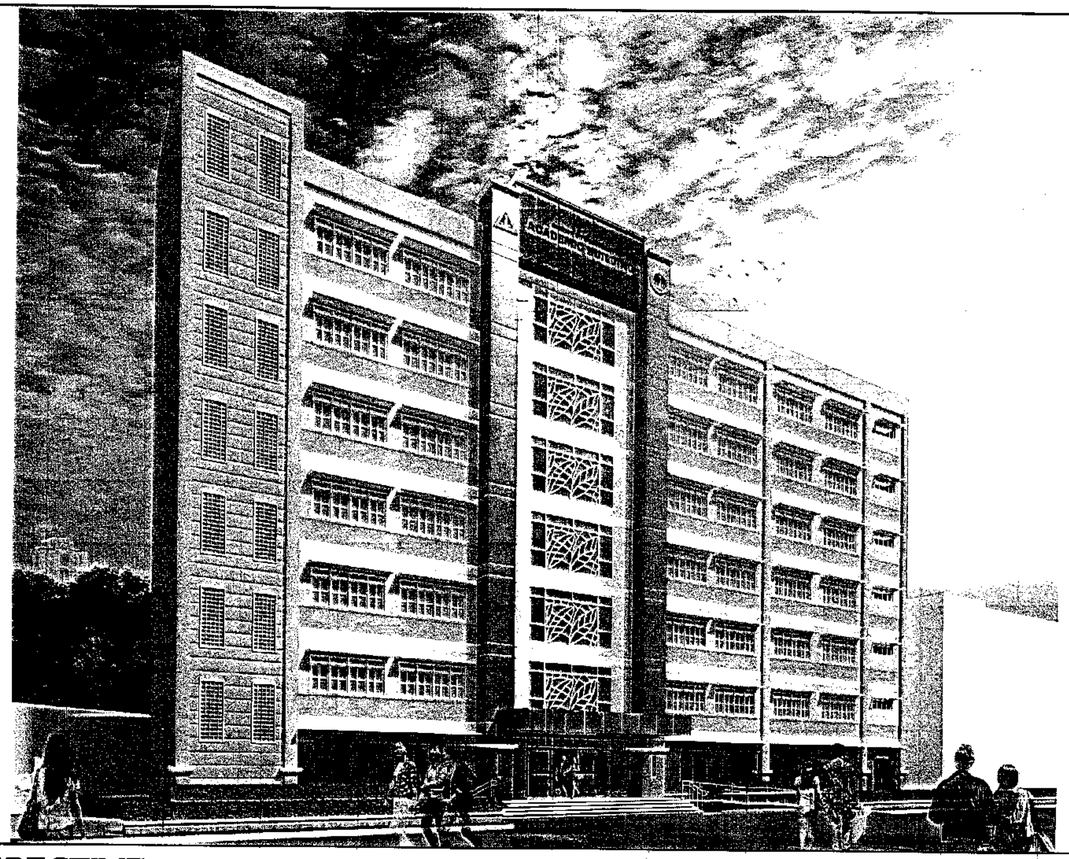
E. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

JONATHAN RAYNALD T. ESPINO
Planning and Programming Division

JOCELYN A. NAONG
Planning and Programming Division

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 PERSPECTIVE

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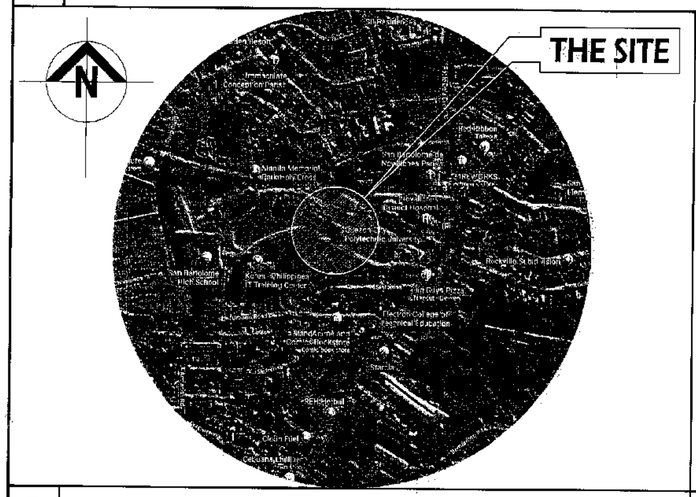
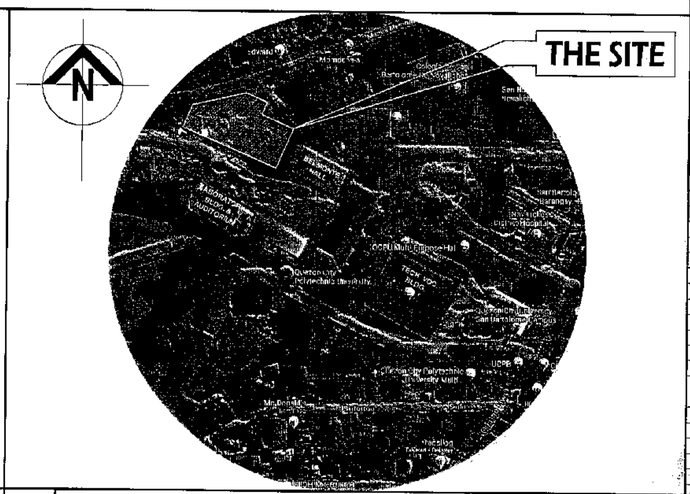


2 VICINITY MAP

NOT TO SCALE



3 LOCATION MAP

NOT TO SCALE

TABLE OF CONTENTS

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

CIVIL / STRUCTURAL

ELECTRICAL

MECHANICAL

SANITARY

PLUMBING

ELECTRONICS

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APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

PERSPECTIVE
VICINITY MAP
LOCATION MAP

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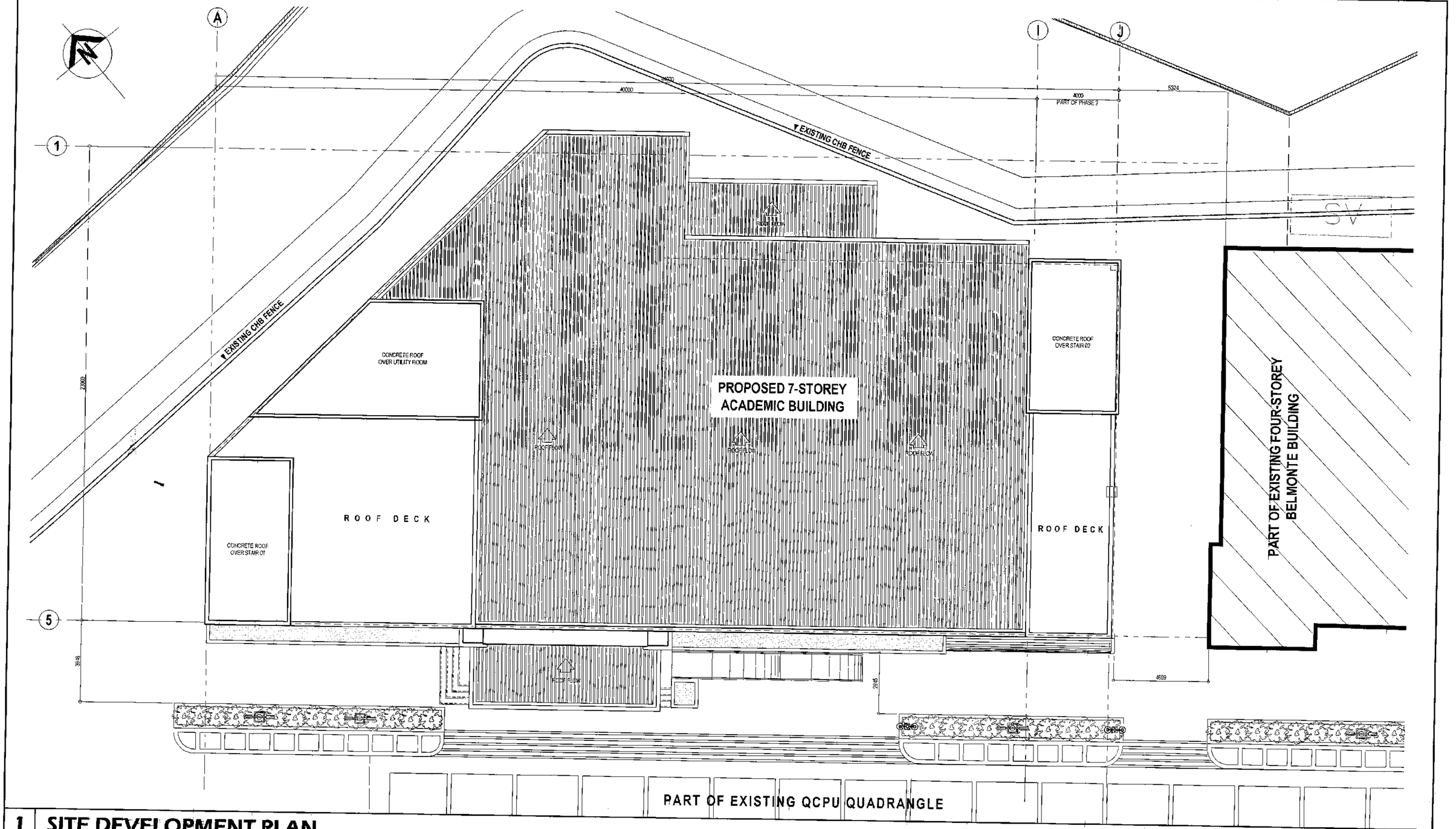

1 SITE DEVELOPMENT PLAN

SCALE 1:100 METERS

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, I MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

SITE DEVELOPMENT PLAN

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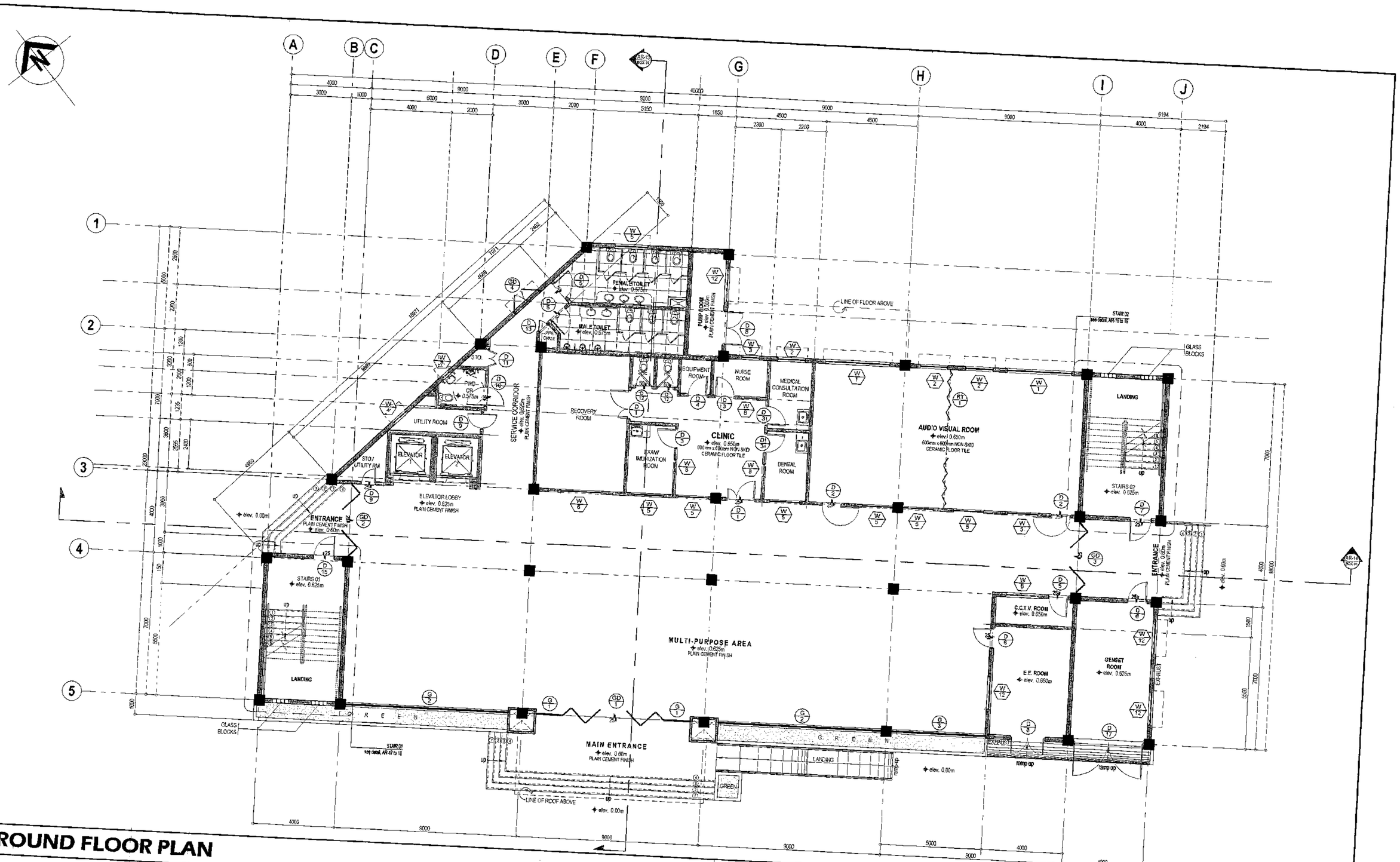

1 GROUND FLOOR PLAN

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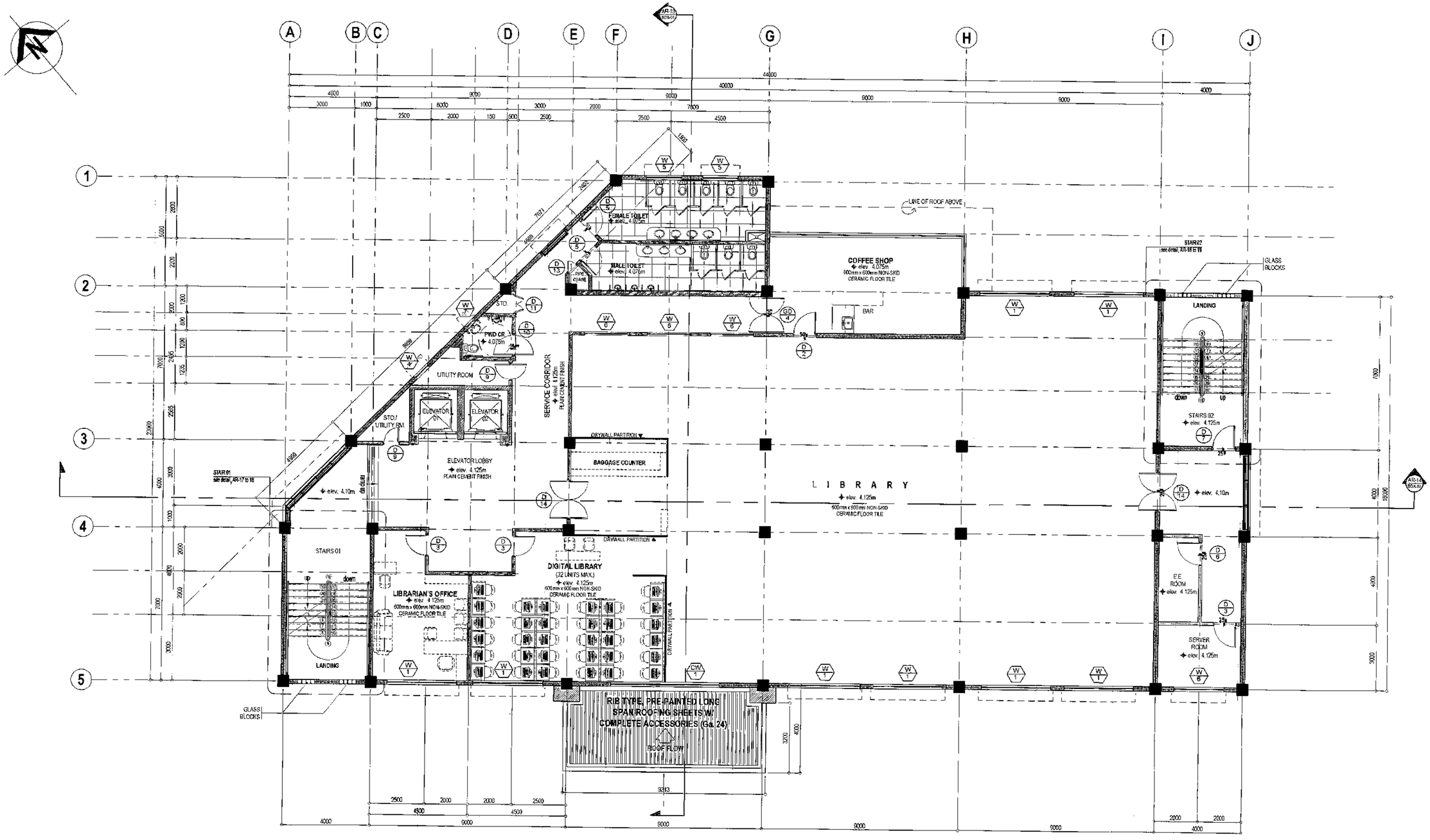

1 SECOND FLOOR PLAN

SCALE 1:100 METERS

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PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU) MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SECOND FLOOR PLAN

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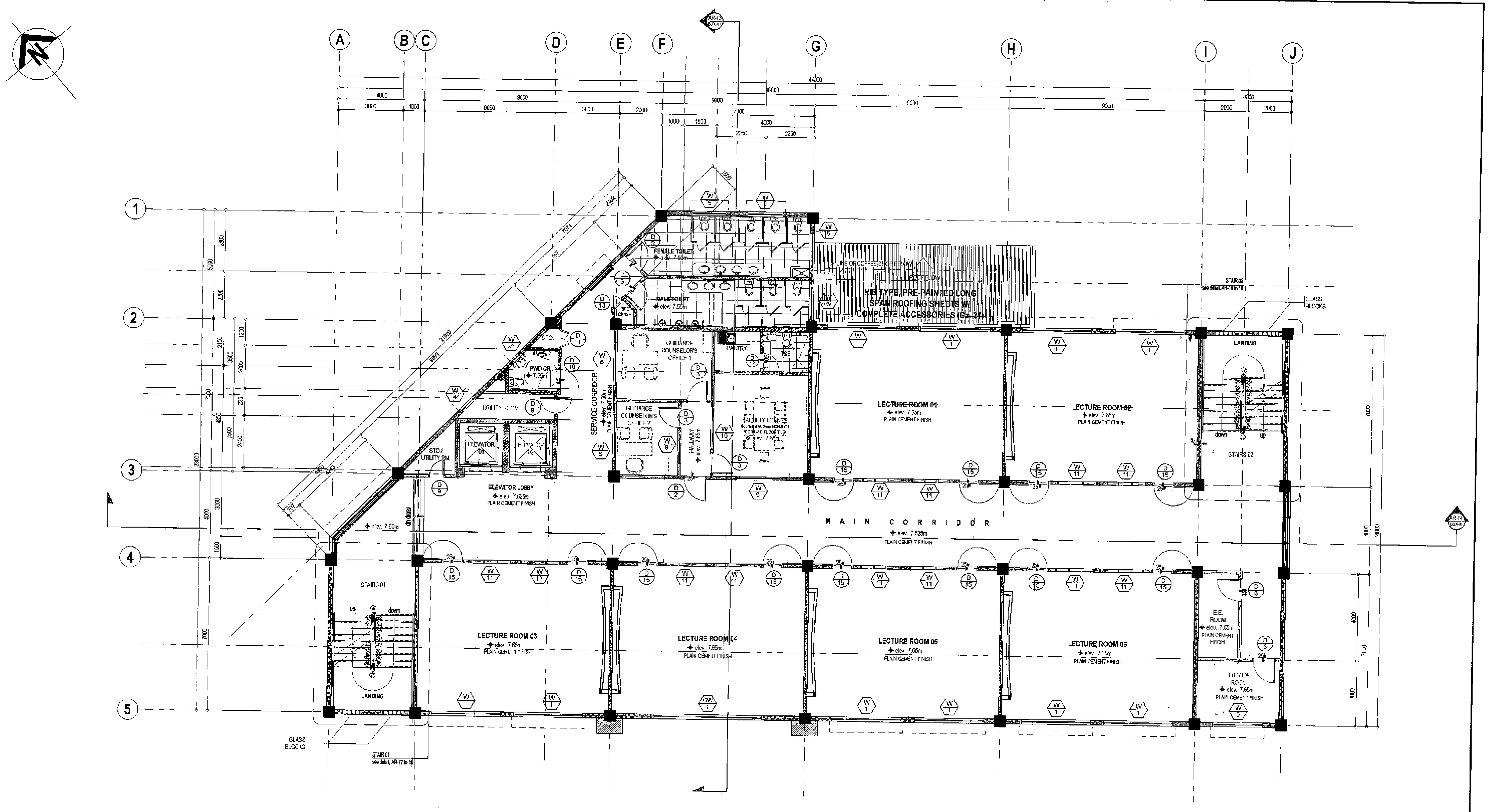

1 THIRD FLOOR PLAN

SCALE 1:100 METERS

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PROJECT TITLE :

PROPOSED CONSTRUCTION OF
SEVEN (7) STOREY ACADEMIC BUILDING
@ QCU; MAIN CAMPUS
(PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

THIRD FLOOR PLAN

PROJECT NO.:

DATE	November 2020
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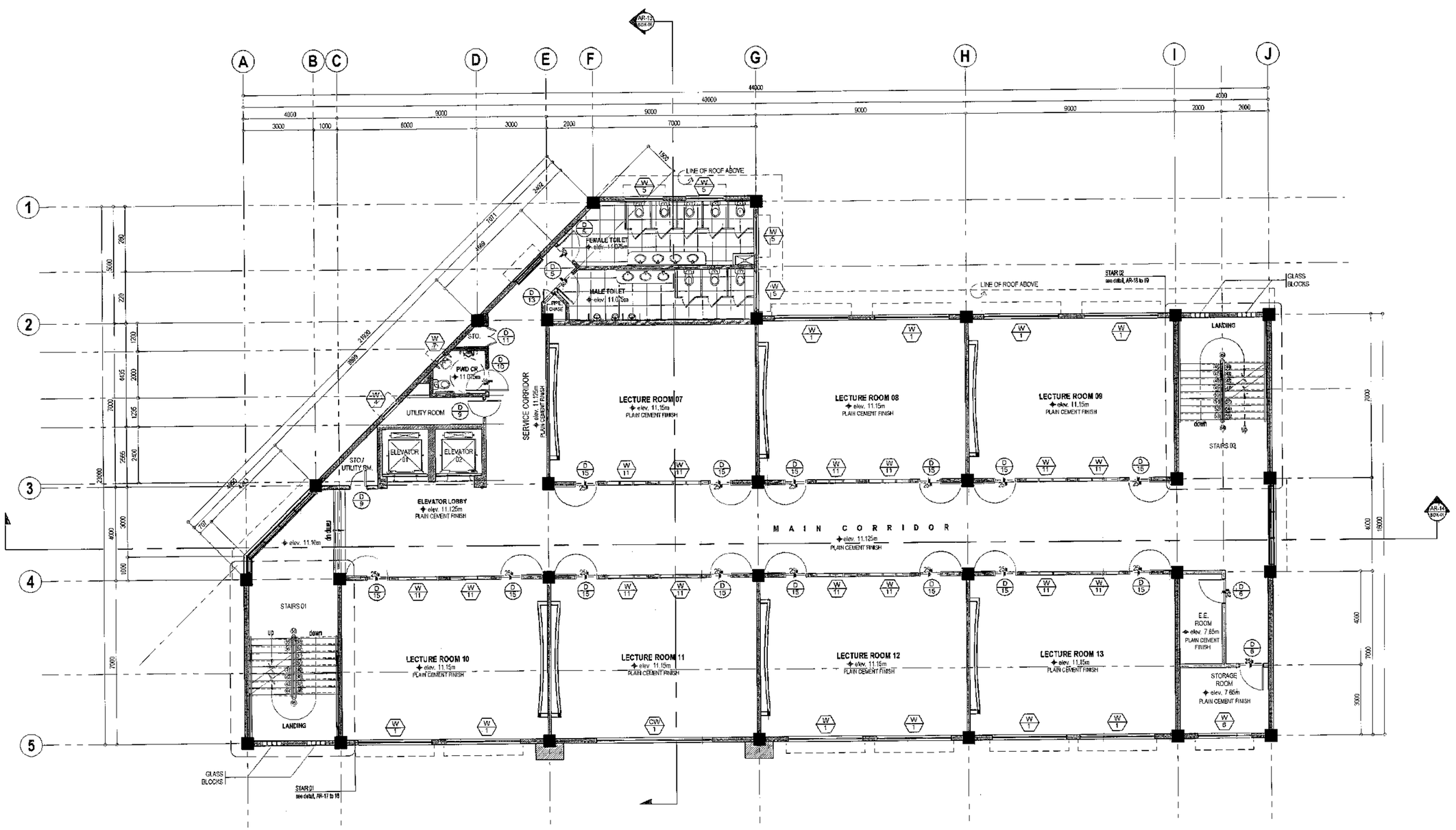
AR-05



1 TYPICAL FOURTH FLOOR TO SIXTH FLOOR PLAN

SCALE 1:100 METERS

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PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
TYPICAL FOURTH TO SIXTH FLOOR PLAN

PROJECT NO.:

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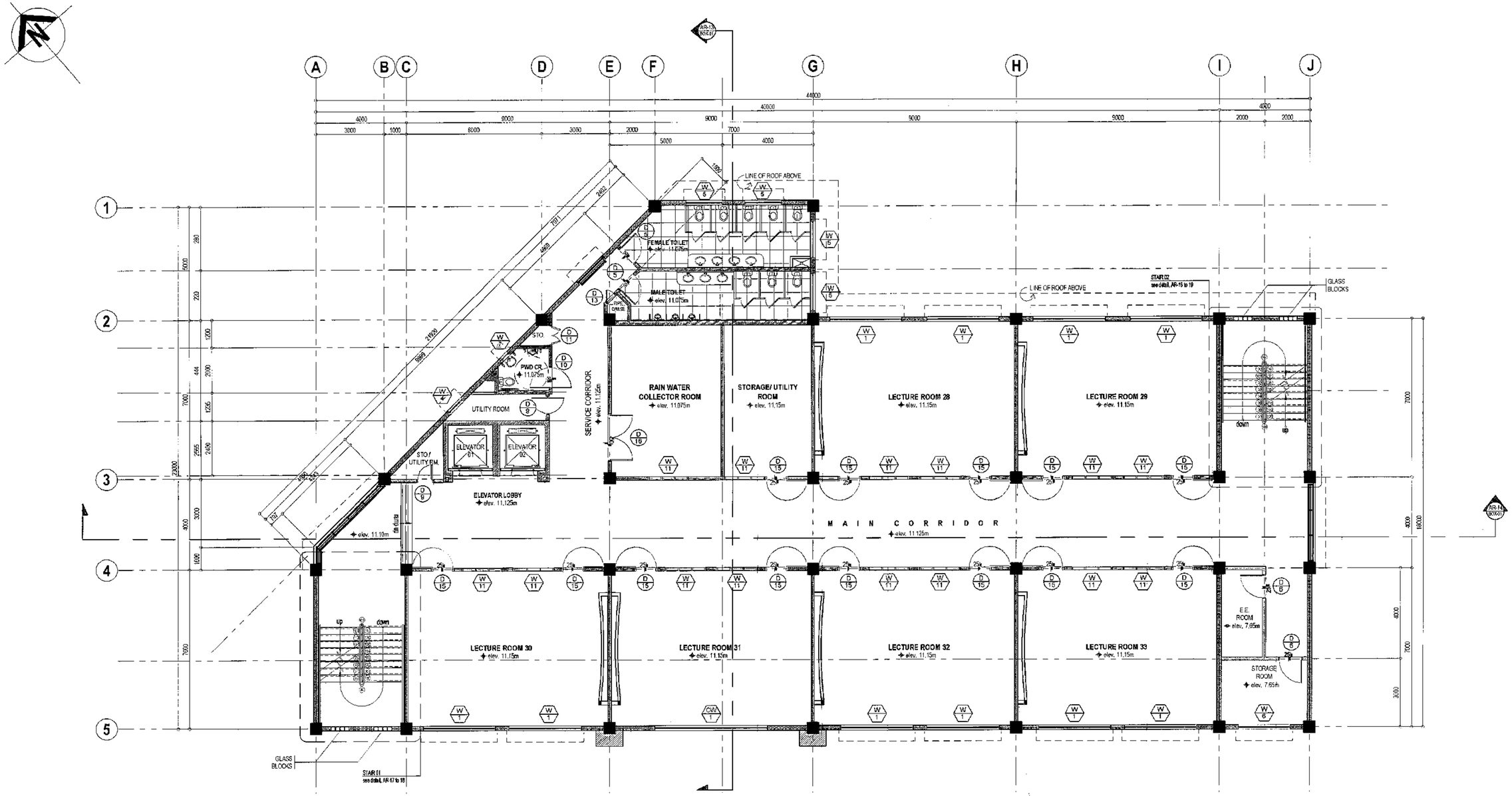

1 SEVENTH FLOOR PLAN

SCALE 1:100 METERS

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PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SEVENTH FLOOR PLAN

PROJECT NO.:	
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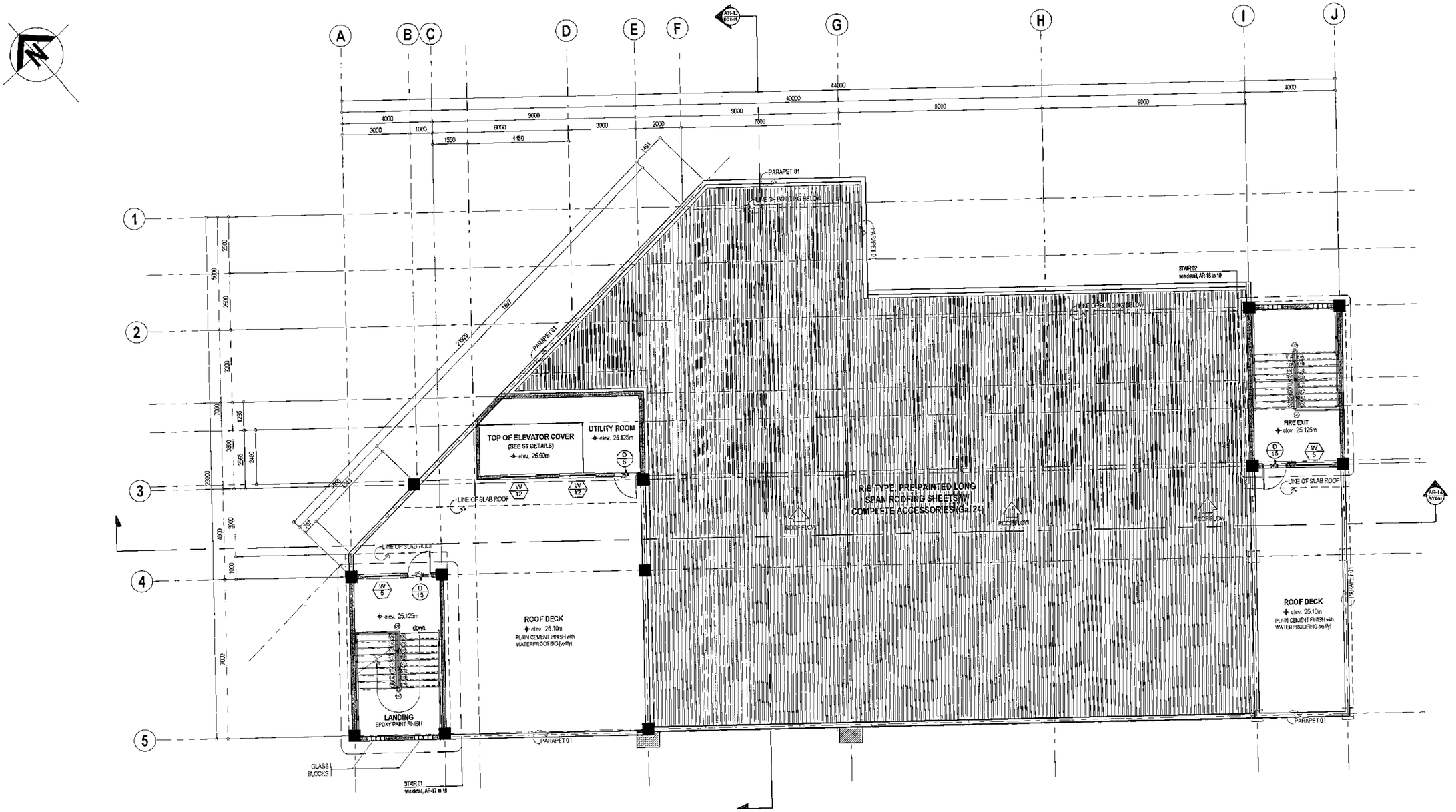

SCALE 1:100 METERS

1 ROOF DECK PLAN

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

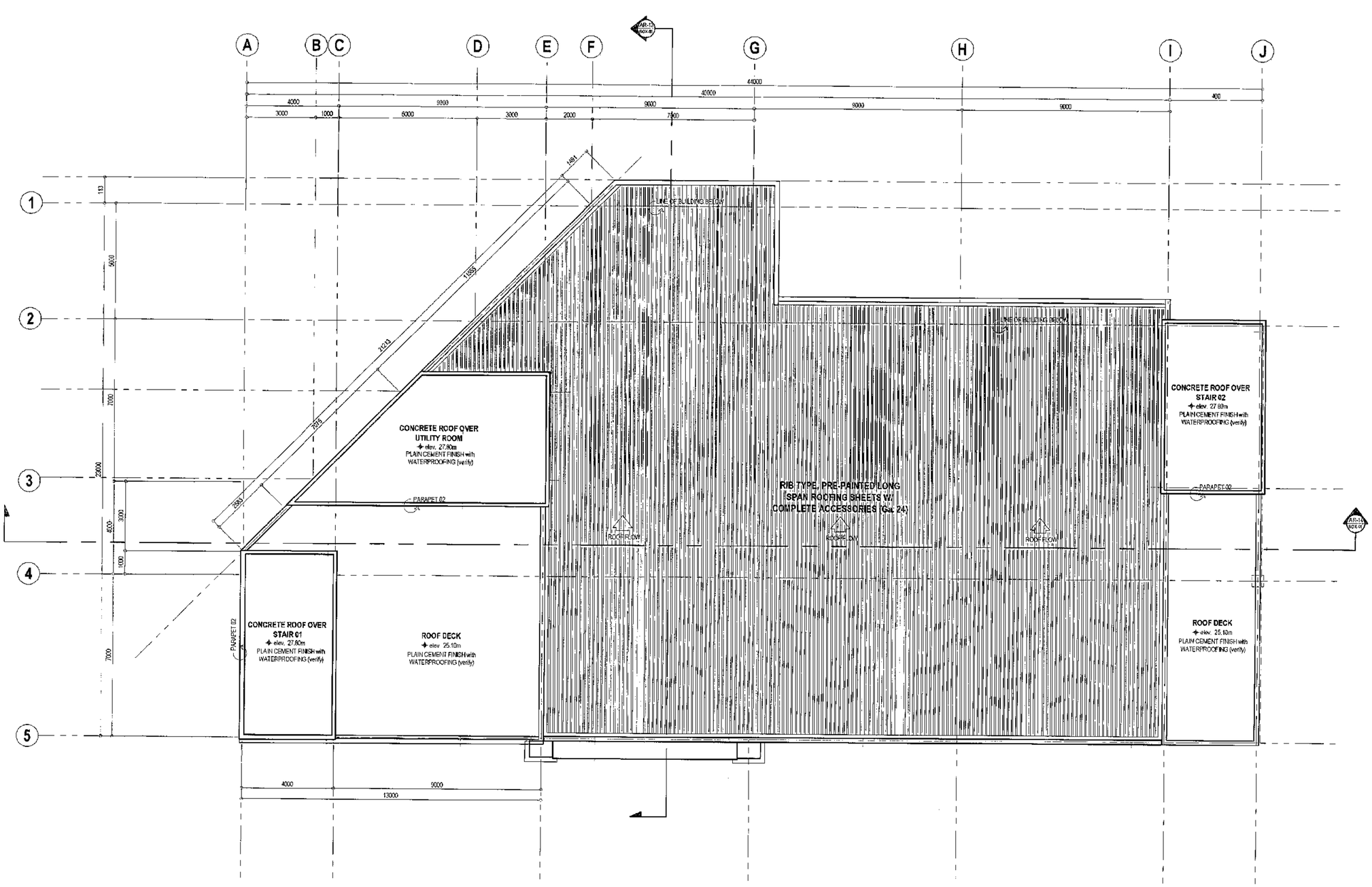
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU; MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
ROOF DECK PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E./L.B.R./U.L.C.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: AR-08



1 ROOF PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
SEVEN (7) STOREY ACADEMIC BUILDING
@ QCU - MAIN CAMPUS
(PHASE 2)

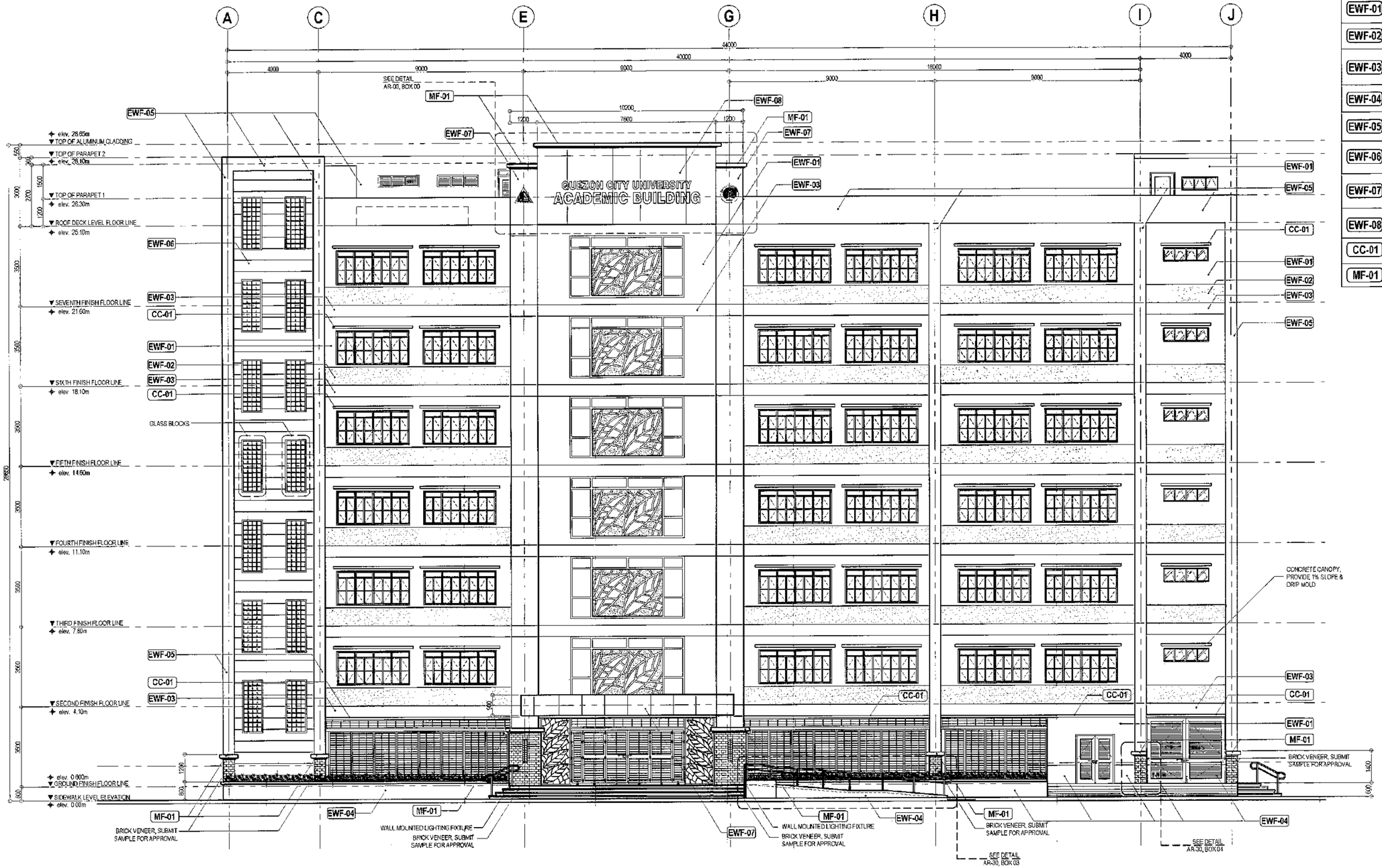
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

ROOF PLAN

PROJECT NO.:	
DATE	November 2020
DRAWN BY	Ar. R.M.E.A, B.R./U.L.P.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: AR-09



LEGEND	DESCRIPTION
EWF-01	PLAIN CEMENT PLASTERED PAINTED FIN. (color : PURE IVORY)
EWF-02	PLAIN CEMENT PLASTERED WITH PATTERNED PAINT FIN. (verify pattern, color: DAY STAR)
EWF-03	PLAIN CEMENT PLASTERED PAINTED FIN. WITH GROOVES ON TOP OF BEAM AND ANOTHER SPACED AT 500mm (color : KITTEN WHITE)
EWF-04	PLAIN CEMENT PLASTERED PAINTED FIN. (color : COPPER BRIGHT)
EWF-05	PLAIN CEMENT PLASTERED PAINTED FIN. (color : INDIAN CORN)
EWF-06	PLAIN CEMENT PLASTERED PAINTED FIN. WITH $\frac{1}{2}$" x $\frac{1}{2}$" DEPTH GROOVES SPACED 500mm FROM TOP (color : HB DAY STAR)
EWF-07	PLAIN CEMENT PLASTERED, PAINTED FINISH W/ GROOVES (color: GRAY TROPICS)
EWF-08	PLAIN CEMENT PLASTERED PAINTED FIN. WITH $\frac{1}{2}$" x $\frac{1}{2}$" DEPTH GROOVES (color : COPPER BRIGHT)
CC-01	**CONCRETE CANOPY:** PLAIN CEMENT PLASTERED PAINTED FIN., PROVIDE DRIP MOULD (KITTEN WHITE)
MF-01	**MOULDING:** PLAIN CEMENT PLASTERED PAINTED FIN. (KITTEN WHITE)

1 FRONT ELEVATION

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
FRONT ELEVATION

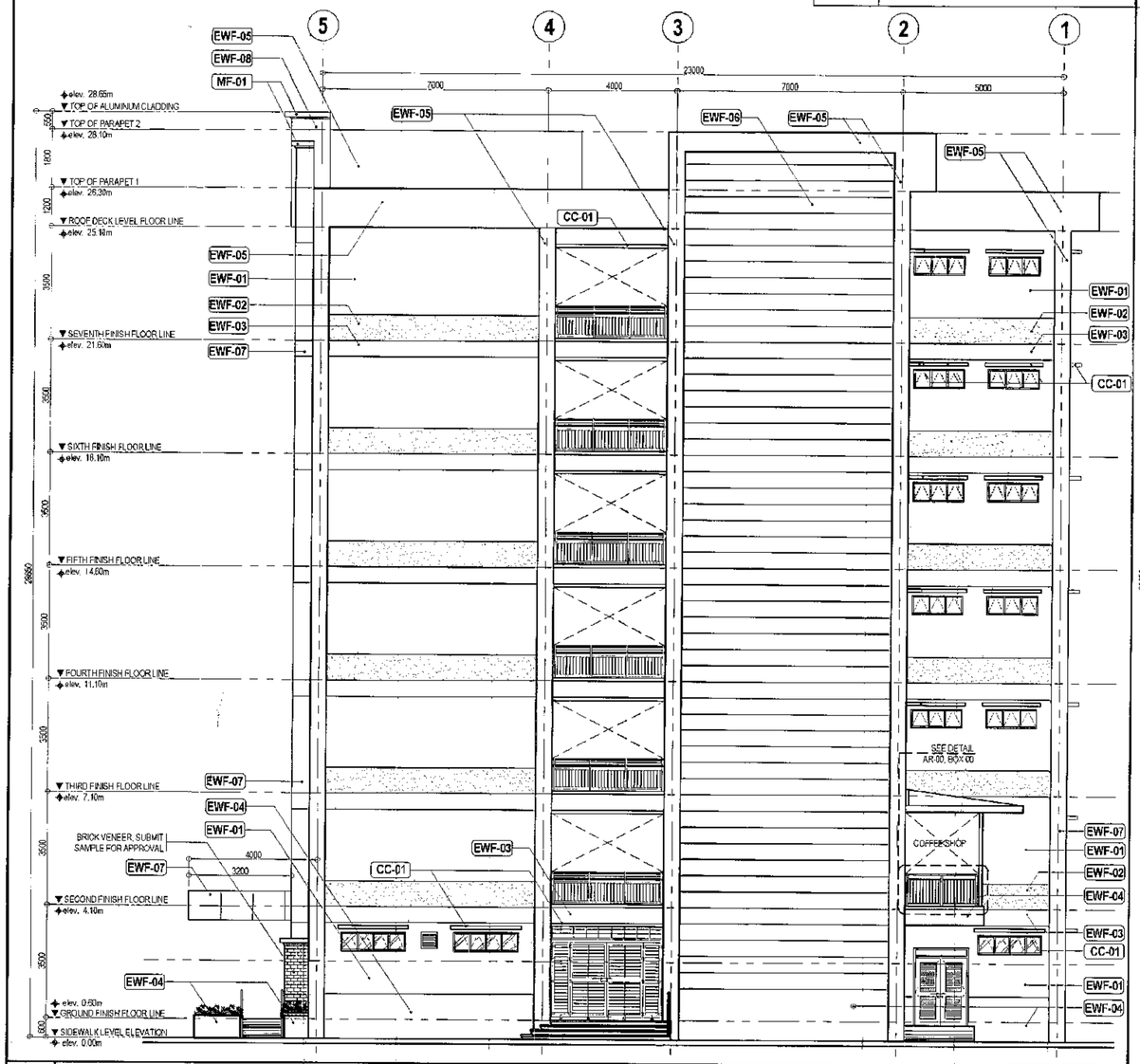
PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E./M.S.B.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.:
AR-10

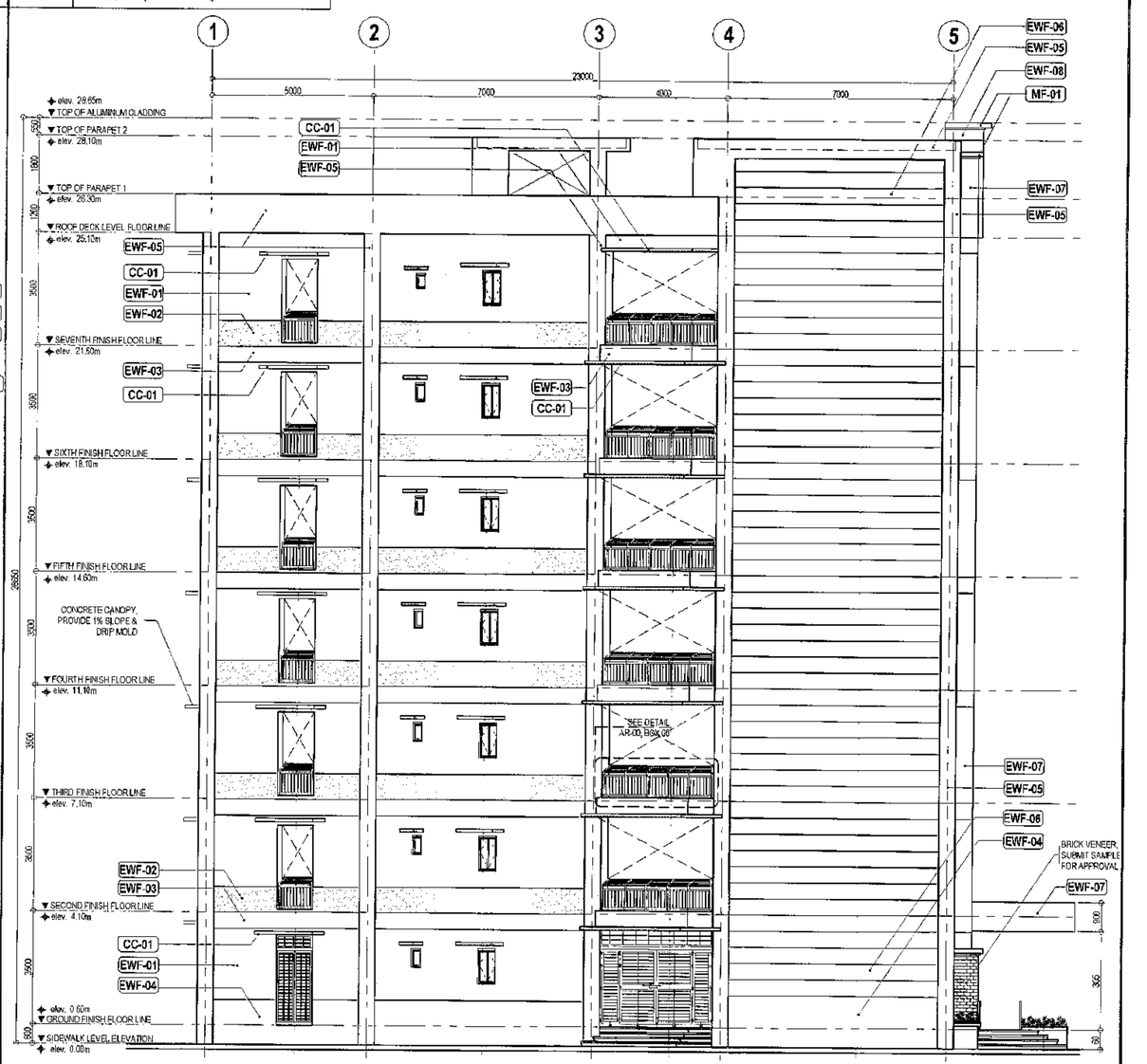
LEGEND	DESCRIPTION
EWF-01	PLAIN CEMENT PLASTERED PAINTED FIN. (color : PURE IVORY)
EWF-02	PLAIN CEMENT PLASTERED WITH PATTERNED PAINT FIN. (verify pattern, color: DAY STAR)
EWF-03	PLAIN CEMENT PLASTERED PAINTED FIN. WITH GROOVES ON TOP OF BEAM AND ANOTHER SPACED AT 600mm (color : KITTEN WHITE)
EWF-04	PLAIN CEMENT PLASTERED PAINTED FIN. (color : COPPER BRIGHT)
EWF-05	PLAIN CEMENT PLASTERED PAINTED FIN. (color : INDIAN CORN)

LEGEND	DESCRIPTION
EWF-06	PLAIN CEMENT PLASTERED PAINTED FIN. WITH 1" x 1" DEPTH GROOVES SPACED 500mm FROM TOP (color : HB DAY STAR)
EWF-07	PLAIN CEMENT PLASTERED, PAINTED FINISH W/ GROOVES (color: GRAY TROPICS)
EWF-08	PLAIN CEMENT PLASTERED PAINTED FIN. WITH 1" x 1" DEPTH GROOVES (color : COPPER BRIGHT)
CC-01	**CONCRETE CANOPY:** PLAIN CEMENT PLASTERED PAINTED FIN. (KITTEN WHITE); PROVIDE DRIP MOULD
MF-01	**MOULDING:** PLAIN CEMENT PLASTERED PAINTED FIN. (KITTEN WHITE)



1 RIGHT SIDE ELEVATION

SCALE 1:100 METERS



2 LEFT SIDE ELEVATION

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SF CIVIC CENTER - D (BRO: Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap; piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU; MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

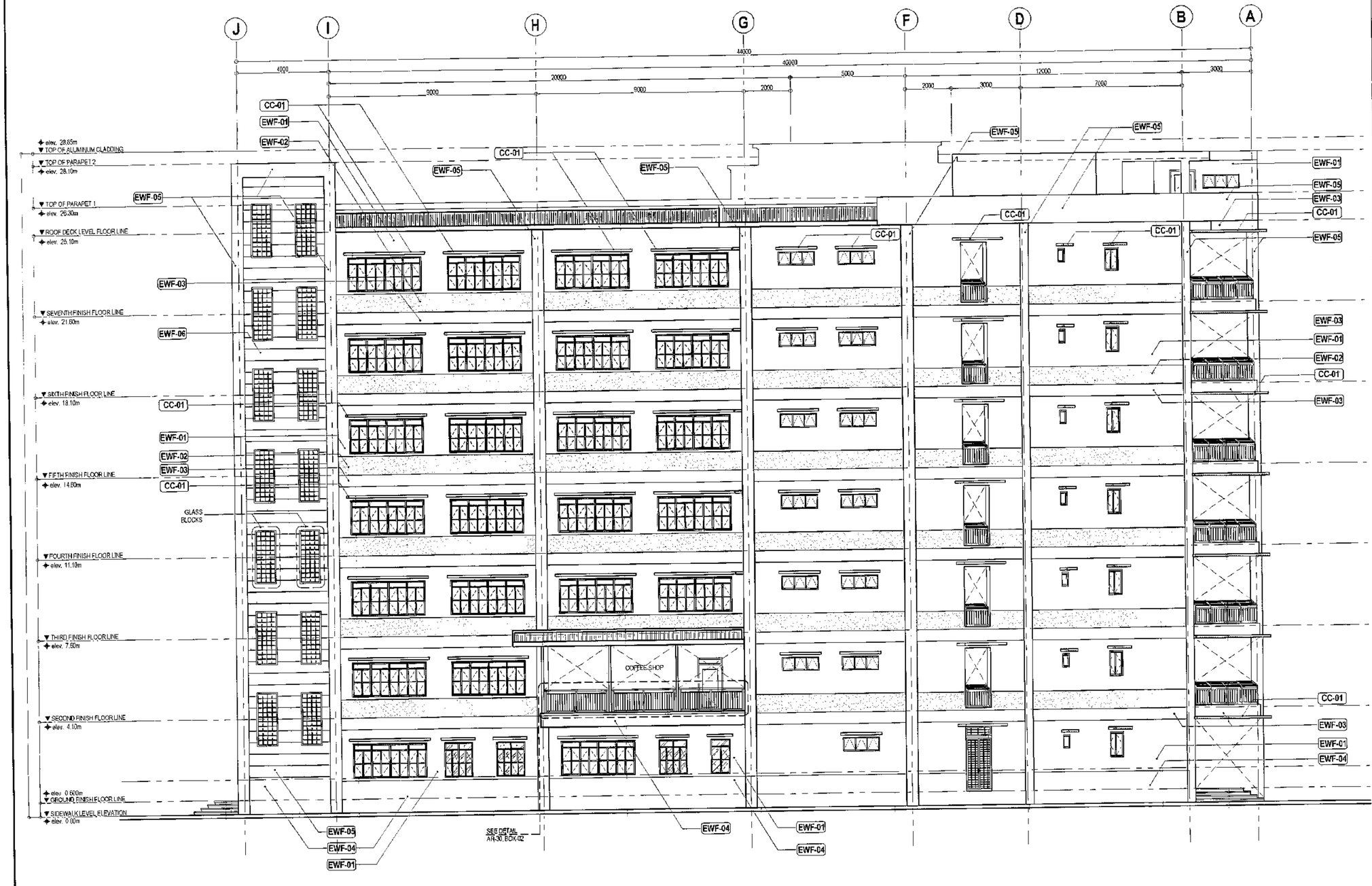
LEFT AND RIGHT ELEVATION

PROJECT NO.:

DATE	November 2020
DRAWN BY	L.B.R./M.S.B.F.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.:

AR-11



LEGEND	DESCRIPTION
EWF-01	PLAIN CEMENT PLASTERED PAINTED FIN. (color : PURE IVORY)
EWF-02	PLAIN CEMENT PLASTERED WITH PATTERNED PAINT FIN. (verify pattern, color: DAY STAR)
EWF-03	PLAIN CEMENT PLASTERED PAINTED FIN. WITH GROOVES ON TOP OF BEAM AND ANOTHER SPACED AT 500mm (color : KITTEN WHITE)
EWF-04	PLAIN CEMENT PLASTERED PAINTED FIN. (color : COPPER BRIGHT)
EWF-05	PLAIN CEMENT PLASTERED PAINTED FIN. (color : INDIAN CORN)
EWF-06	PLAIN CEMENT PLASTERED PAINTED FIN. WITH $\frac{1}{2}$" x $\frac{1}{2}$" DEPTH GROOVES SPACED 500mm FROM TOP (color : HB DAY STAR)
EWF-07	PLAIN CEMENT PLASTERED, PAINTED FINISH W/ GROOVES (color: GRAY TROPICS)
EWF-08	PLAIN CEMENT PLASTERED PAINTED FIN. WITH $\frac{1}{2}$" x $\frac{1}{2}$" DEPTH GROOVES (color : COPPER BRIGHT)
CC-01	**CONCRETE CANOPY:** PLAIN CEMENT PLASTERED PAINTED FIN., PROVIDE DRIP MOULD (KITTEN WHITE)
MF-01	**MOULDING:** PLAIN CEMENT PLASTERED PAINTED FIN. (KITTEN WHITE)

SCALE 1:100 METERS

1 REAR ELEVATION

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

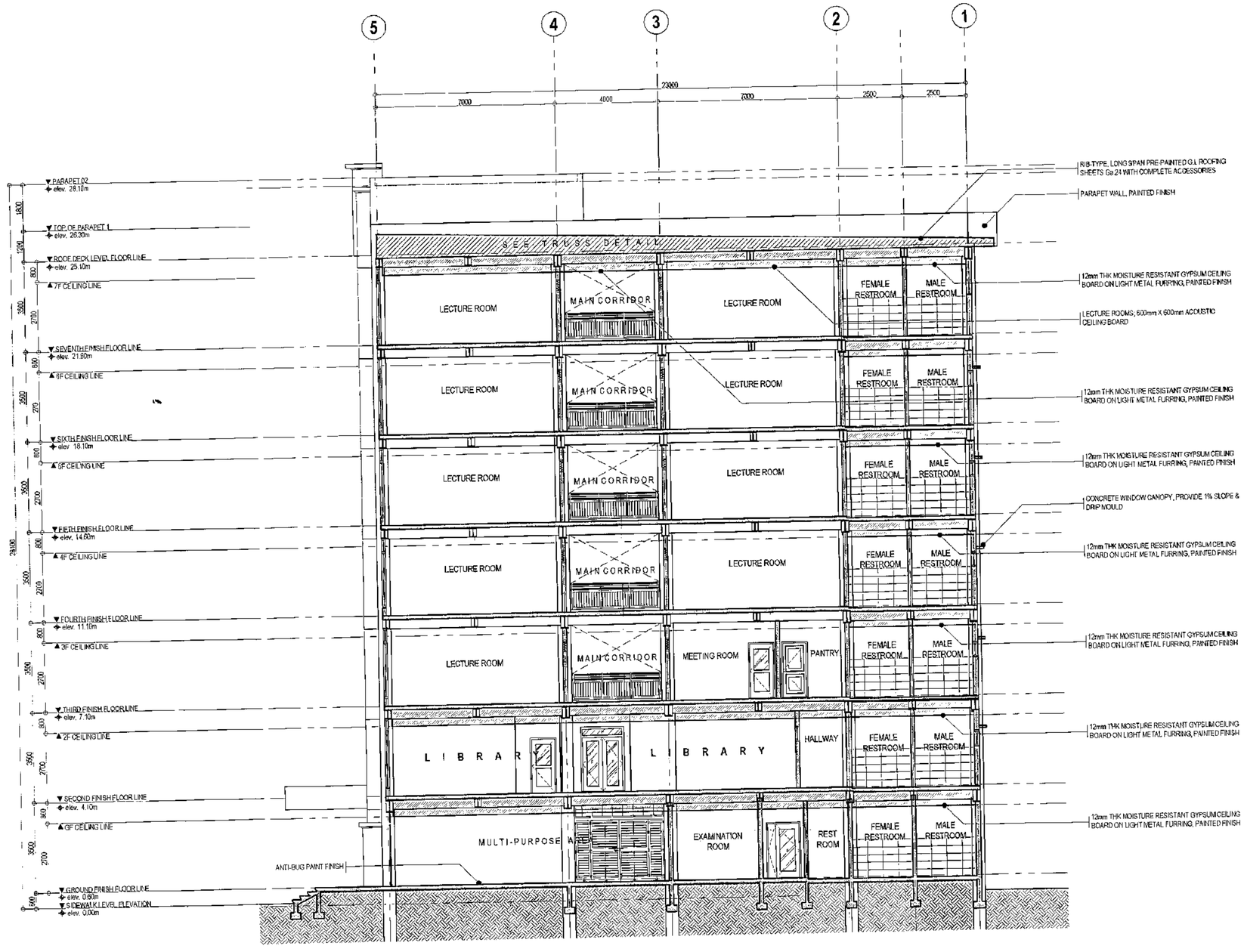
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
REAR ELEVATION

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E./M.S.R.B.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.:
AR-12



SCALE 1:100 METERS

1 CROSS SECTION

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SIF CIVIC CENTER - D (BRO. B4g), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

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CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN [7] STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

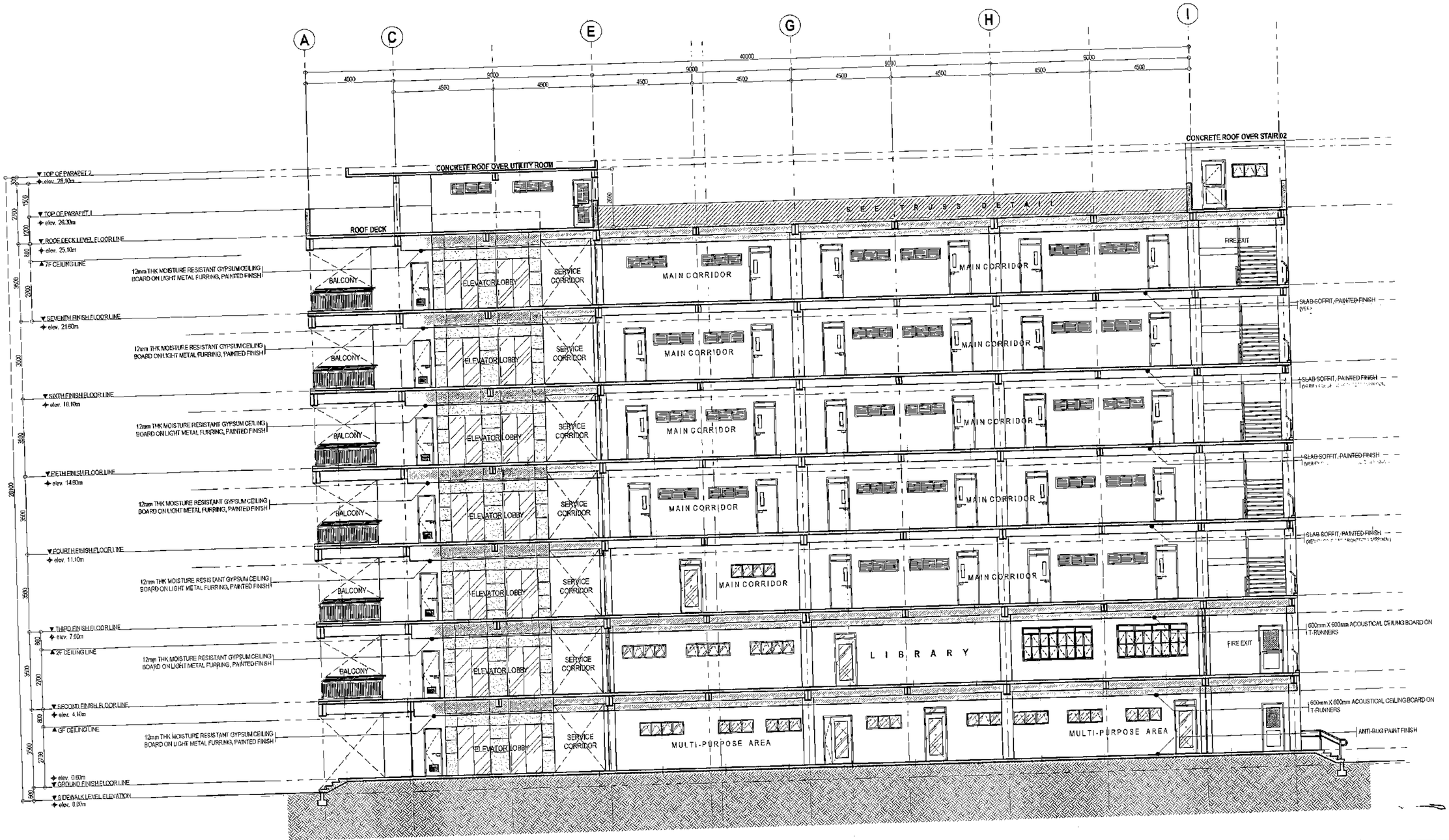
CROSS SECTION

PROJECT NO.:

DATE	November 2020
DRAWN BY	M.S.B.F
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.:

AR-13



SCALE 1:100 METERS

1 LONGITUDINAL SECTION

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CMG CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISABANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR

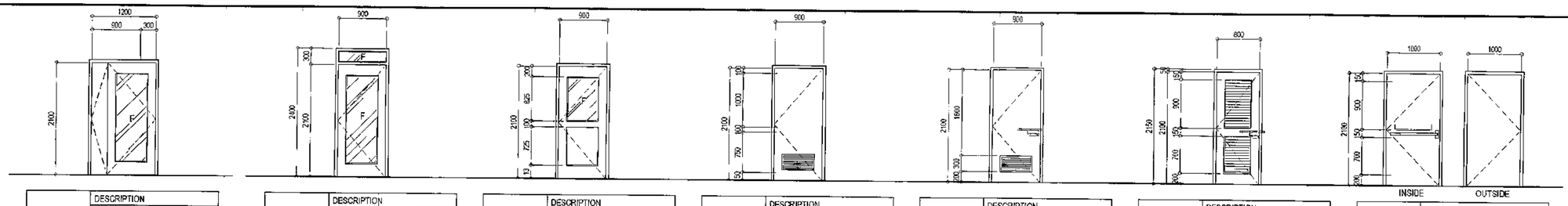
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
LONGITUDINAL SECTION

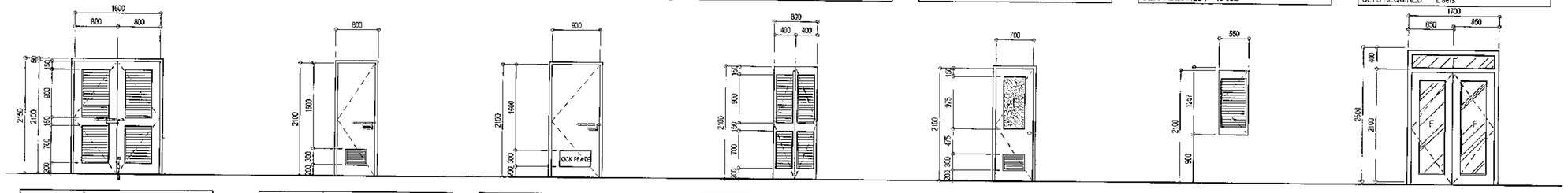
PROJECT NO.:

DATE	November 2020
DRAWN BY	M.S.B.F
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

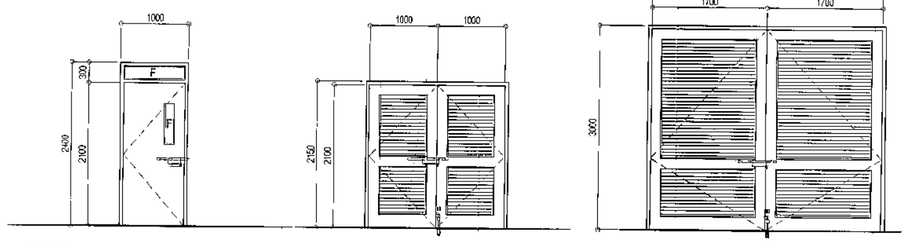
SHEET NO.: **AR-14**



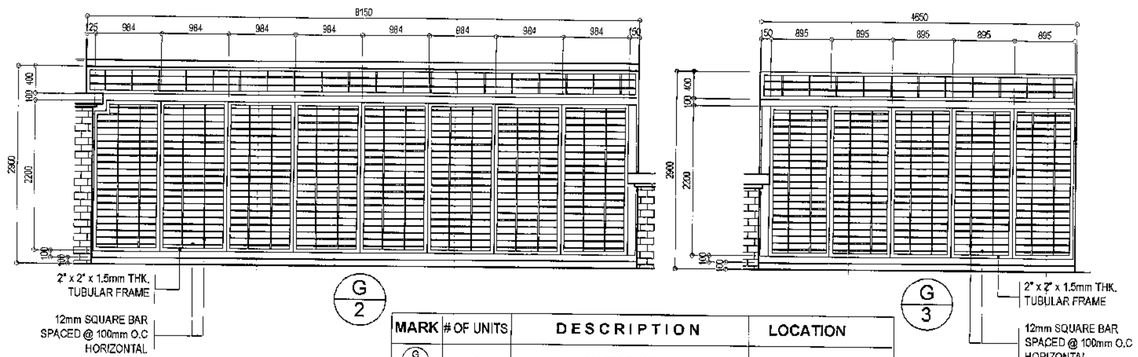
	DESCRIPTION	LOCATION	SETS REQUIRED
D-1	WOODEN DOOR W/ 6mm THK TEMPERED GLASS PANEL , LEVER TYPE DOOR HANDLE & PROVIDE AUTOMATIC DOOR CLOSER WITH COMPLETE LOCKSET. TYPE: SWING, DOUBLE ACTION	Ground Floor: CLINIC (Entrance & Recovery Room)	2 sets
D-2	6mm THK TEMPERED GLASS DOOR ON POWDER COATED ALUMINUM FRAMES, FINISH W/ GLASS TRANSOM, PROVIDE LEVER TYPE HANDLE WITH AUTOMATIC DOOR CLOSER TYPE: SWING	Ground Floor: AUDIO VISUAL ROOM Second Floor: COFFEE SHOP Third Floor: GUIDANCE OFFICES (HALLWAY)	4 sets
D-3	WOODEN DOOR W/ 6mm THK TEMPERED GLASS PANEL , LEVER TYPE DOOR HANDLE & PROVIDE AUTOMATIC DOOR CLOSER WITH COMPLETE LOCKSET. TYPE: SWING	Ground Floor: DENTAL ROOM; MEDICAL CONSULTATION ROOM; NURSE ROOM; EXAMINATION/IMMUNIZATION ROOM Second Floor: DIGITAL LIBRARY; LIBRARIAN'S OFFICE; SERVER ROOM Third Floor: FACULTY LOUNGE, GUIDANCE COUNSELORS OFFICE 1 & 2, T/C/DF	11 sets
D-4	FLUSH HALLOW CORE DOOR W/ 10mm THK MARINE PLYWOOD ON BOTH SIDES & LOUVERS BELOW, WITH LEVER TYPE DOOR HANDLE & PROVIDE AUTOMATIC DOOR. PAINTED FINISH TYPE: SWING	Ground Floor: CLINIC (Equipment Storage)	1 set
D-5	METAL TYPE DOOR WITH LOUVERS AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Ground to Seventh Floor; MALE AND FEMALE TOILET; C.C.T.V. ROOM	15 sets
D-6	METAL TYPE DOOR WITH METAL LOUVERS AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Ground Floor: E.E. ROOM; GENSET ROOM Second to Seventh Floor: EE ROOM; STORAGE ROOM Roof Deck: UTILITY ROOM	13 sets
D-7	METAL DOOR WITH PANIC HARDWARE TYPE: SWING	GROUND FLOOR: FIRE EXIT STAIRS SECOND FLOOR: FIRE EXIT STAIRS	2 sets



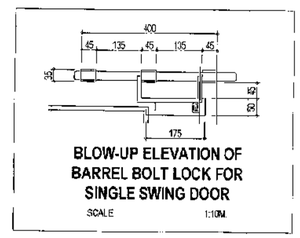
	DESCRIPTION	LOCATION	SETS REQUIRED
D-8	METAL TYPE DOOR WITH METAL LOUVERS AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Ground Floor: PUMP ROOM; E.E. ROOM;	2 sets
D-9	METAL TYPE DOOR WITH LOUVERS AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Ground Floor: JANITOR'S ROOM & STORAGE ROOM/ UTILITY ROOM	14 sets
D-10	METAL TYPE DOOR WITH KICK PLATE AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Ground to Seventh Floor; PWD TOILET	7 sets
D-11	METAL TYPE DOOR WITH METAL LOUVERS AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Third to Seventh Floor; SMALL STORAGE (Beside PWD CR)	7 sets
D-12	19mm THK FCHD PLYWOOD, PAINTED FINISH WITH MOSAIC GLASS, LOUVERS AND COMPLETE LOCK SET TYPE: SWING	Ground Floor: CLINIC REST ROOMS (HE & SHE) Third Floor: FACULTY LOUNGE (T&B)	3 sets
D-13	METAL TYPE DOOR WITH METAL LOUVERS AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Ground to Seventh Floor; MALE TOILET (PIPE CHASE)	7 sets
D-14	6mm THK. CLEAR TEMPERED GLASS DOOR W/ GLASS TRANSOM ON ALUMINUM FRAMES, POWDER COATED FINISH TYPE: SWING	Second Floor; LIBRARY (Entrance & Fire Exit)	2 sets



	DESCRIPTION	LOCATION	SETS REQUIRED
D-15	METAL TYPE DOOR WITH BARREL BOLT LOCK AND TRANSOM WITH FIXED GLASS TYPE: SWING	Ground Floor; STAIR 01 Third Floor to Seventh Floor; LECTURE ROOMS Seventh Floor; STORAGE/ UTILITY	69 sets
D-16	METAL TYPE DOOR WITH METAL LOUVERS AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Seventh Floor; RAINWATER COLLECTOR ROOM	1 set
D-17	METAL TYPE DOOR WITH METAL LOUVERS AND COMPLETE LOCK SET, PAINTED FINISH (VERIFY COLOR) TYPE: SWING	Ground Floor; GENSET ROOM	1 set



MARK	# OF UNITS	DESCRIPTION	LOCATION
G-2	2	FIXED GRILLS PAINTED FINISH (verify to the Architect)	MULTI-PURPOSE AREA
G-3	1	FIXED GRILLS PAINTED FINISH (verify to the Architect)	MULTI-PURPOSE AREA
TOTAL	3		



1 SCHEDULE OF DOORS

SCALE 1:50 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. 546), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

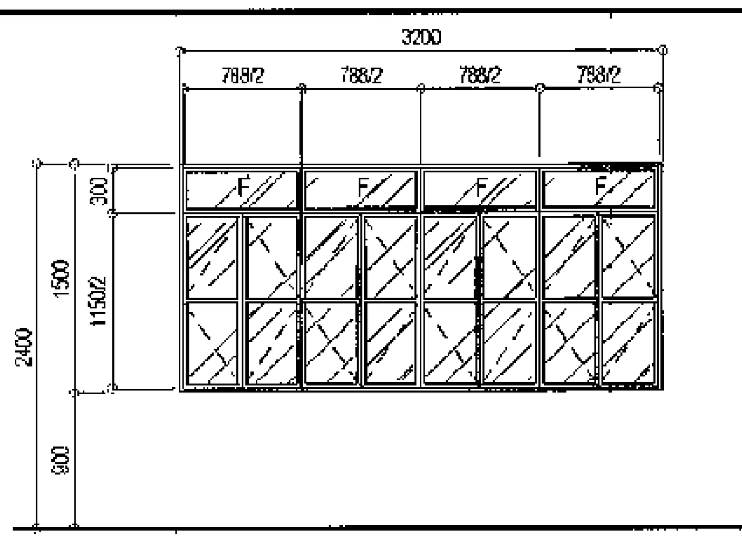
APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

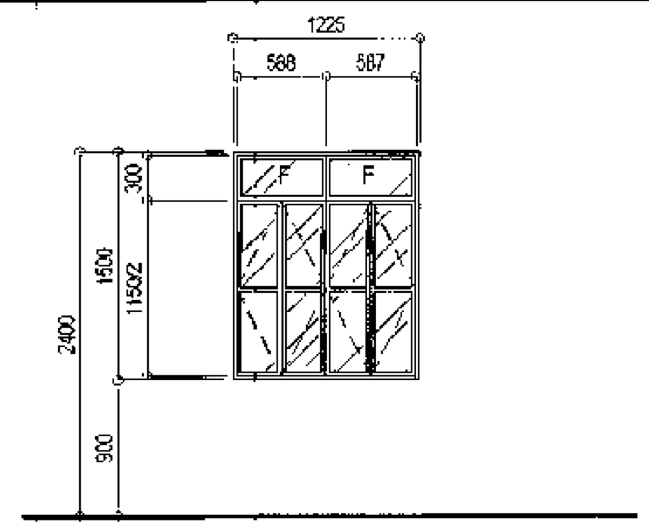
SHEET CONTENTS :
SCHEDULE OF DOORS AND GRILLS

PROJECT NO.:	
DATE	November 2020
DRAWN BY	Ar. R.M.E./M.S.F.S.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

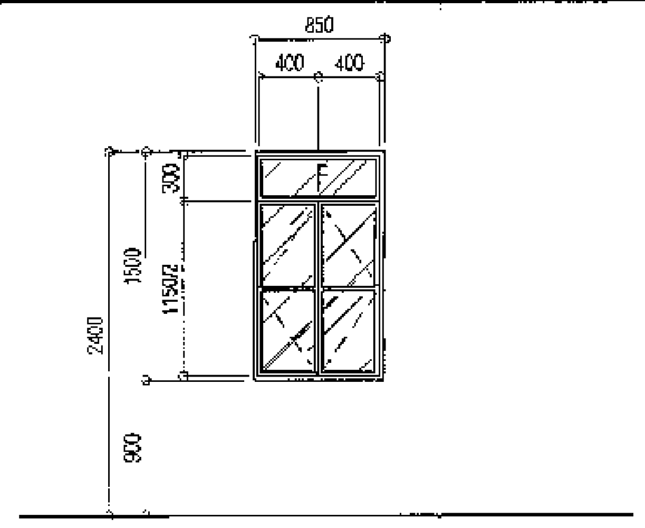
SHEET NO.: AR-15



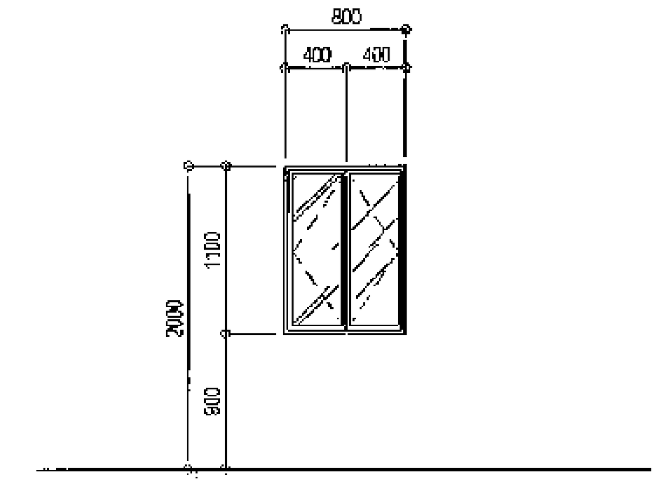
W-1
DESCRIPTION: 6mm THK. CLEAR GLASS WITH TRANSOM ON STEEL FRAMES, PAINTED FINISH, PROVIDE 12mm SQUARE BAR SECURITY RAILS
TYPE: CASEMENT
LOCATION:
Ground Floor: AUDIO VISUAL ROOM
Second Floor: LIBRARY, LIBRARIAN'S OFFICE
Third Floor: LECTURE ROOMS AND FACULTY OFFICE
Fourth to Seventh Floor: LECTURE ROOMS
SETS REQUIRED: 60 sets



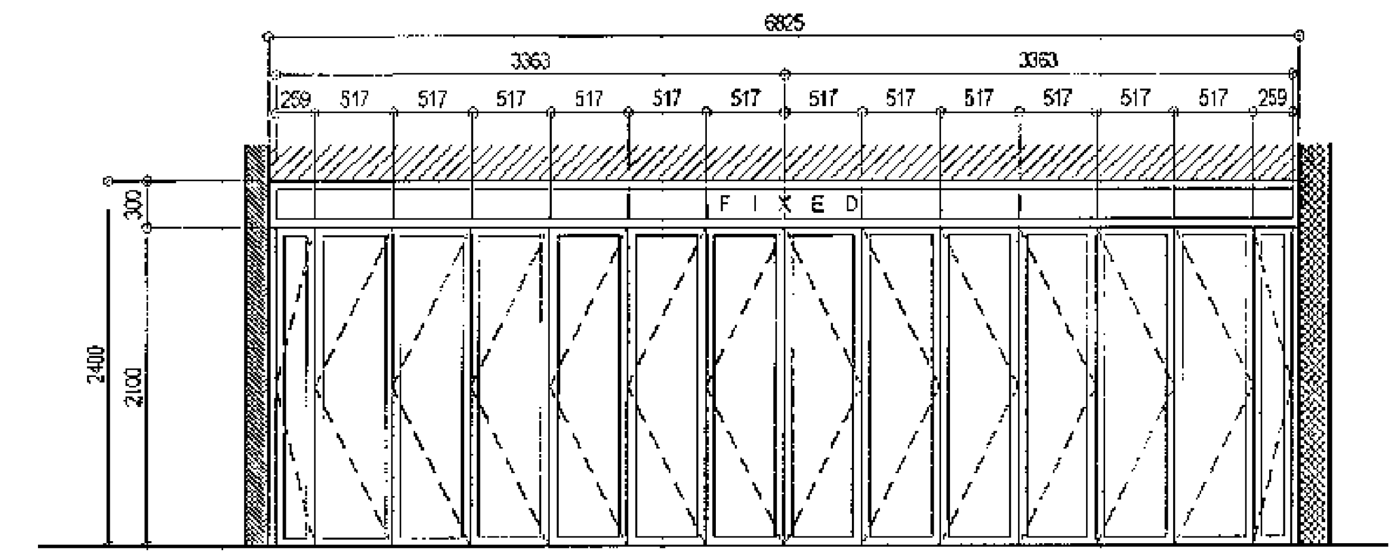
W-2
DESCRIPTION: 6mm THK. CLEAR GLASS WITH TRANSOM ON STEEL FRAMES, PAINTED FINISH, PROVIDE 12mm SQUARE BAR SECURITY RAILS
TYPE: CASEMENT
LOCATION:
Ground Floor: MEDICAL CONSULTATION ROOMS & AUDIO VISUAL ROOM
SETS REQUIRED: 3 sets



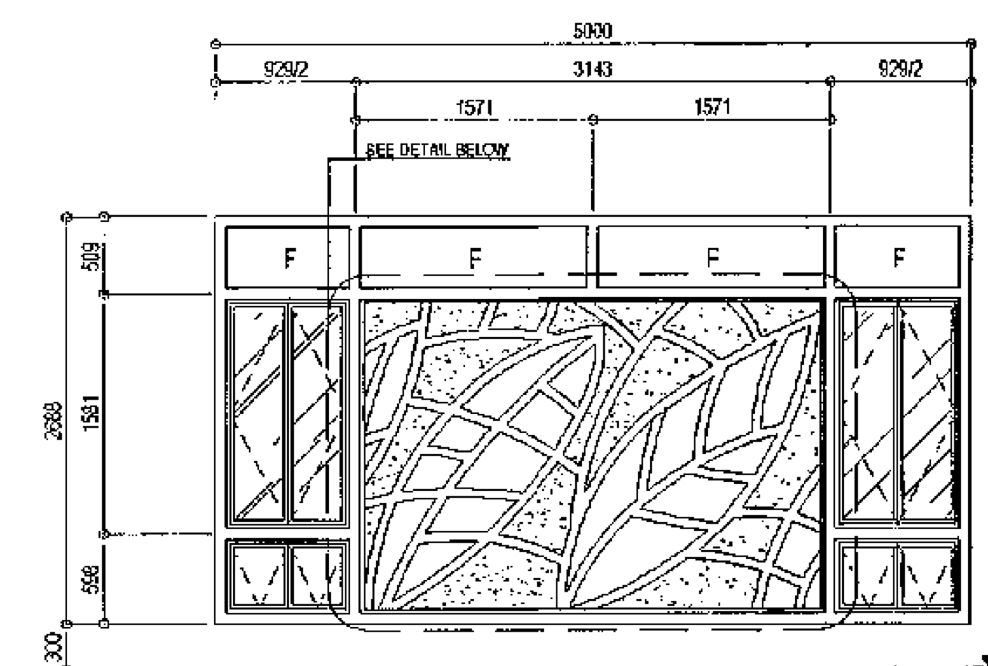
W-3
DESCRIPTION: 6mm THK. CLEAR GLASS WITH TRANSOM ON STEEL FRAMES, PAINTED FINISH, PROVIDE 12mm SQUARE BAR SECURITY RAILS
TYPE: CASEMENT
LOCATION:
Ground Floor: NURSE' ROOM
SETS REQUIRED: 1 set



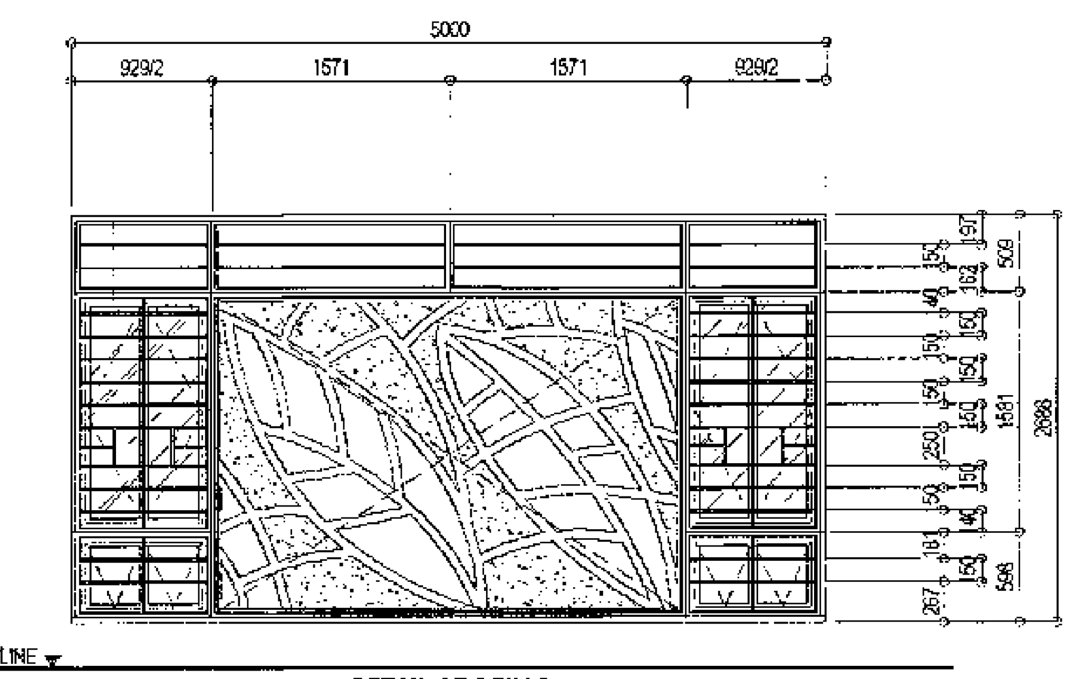
W-4
DESCRIPTION: 6mm THK. CLEAR GLASS ON STEEL FRAMES, PAINTED FINISH, PROVIDE 12mm SQUARE BAR SECURITY RAILS
TYPE: CASEMENT
LOCATION:
Ground to Seventh Floor: JANITOR'S ROOM
SETS REQUIRED: 7 sets



RT-1
DESCRIPTION: VARIFOLD RETRACTABLE WALL
TYPE: ACCORDION
LOCATION:
Ground Floor: AUDIO VISUAL ROOM
SETS REQUIRED: 1 set

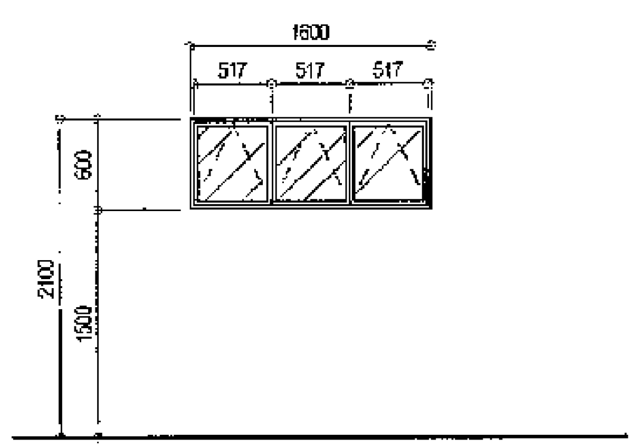


FRONT ELEVATION

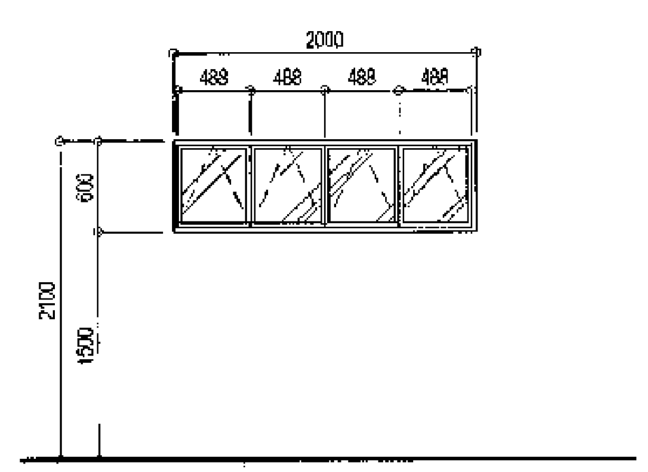


DETAIL OF GRILLS (REAR ELEVATION)

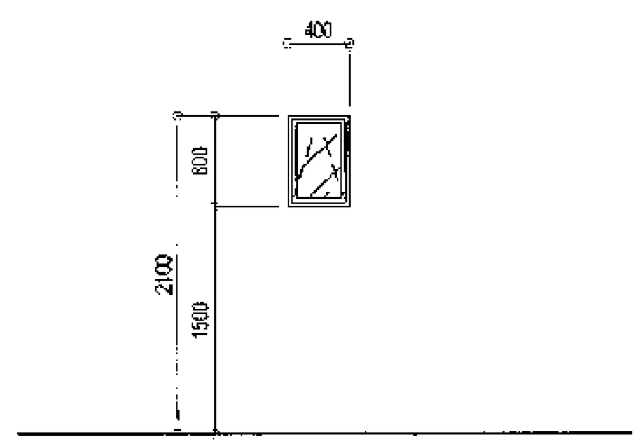
CW-1
DESCRIPTION: 6mm THK. GLASS ON ALUMINUM FRAMES, POWDER COATED
TYPE: CURTAIN WALL; CASEMENT WITH FIXED GLASS
LOCATION:
Second Floor: LIBRARY
Third Floor: LECTURE ROOM 3
Fourth to Seventh Floor: LECTURE ROOM 5
SETS REQUIRED: 6 sets



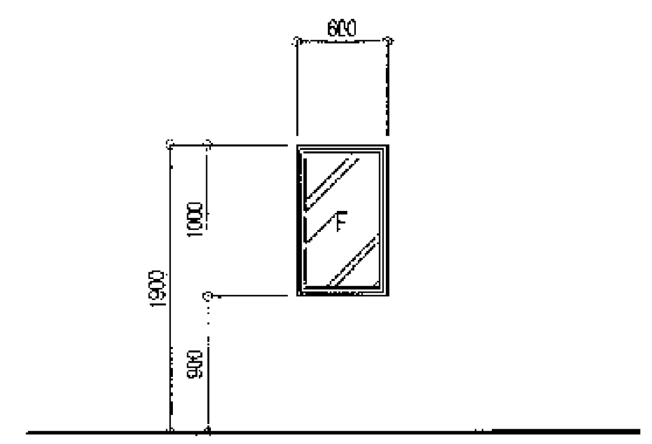
W-5
DESCRIPTION: 6mm THK. CLEAR GLASS ON STEEL FRAMES, PAINTED FINISH, PROVIDE 12mm SQUARE BAR SECURITY RAILS
TYPE: AWNING
LOCATION:
Ground Floor: EXAM/ IMMUNIZATION ROOM; DENTAL ROOM; FEMALE TOILET; CLINIC; AUDIO VISUAL ROOM
Second to Seventh Floor: FEMALE AND MALE TOILET
Roof Deck: STAIR 01 & 02
SETS REQUIRED: 32 sets



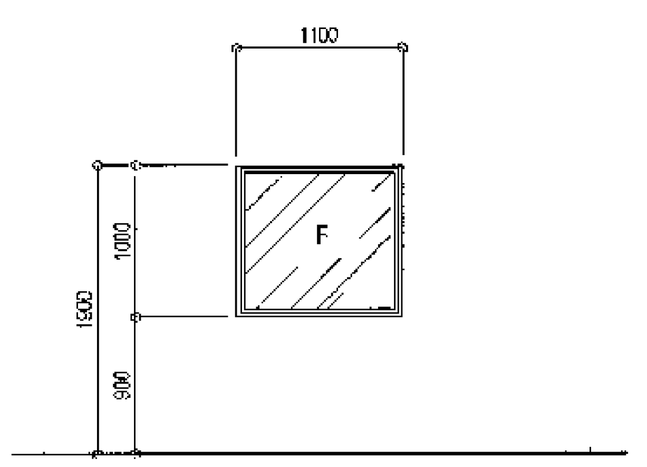
W-6
DESCRIPTION: 6mm THK. CLEAR GLASS ON ALUMINUM FRAMES, POWDER COATED
TYPE: AWNING
LOCATION:
Ground Floor: RECOVERY ROOM (Clinic); CCTV ROOM;
Second Floor: LIBRARY (Hallway to Coffee shop), SERVER ROOM
Third Floor: FACULTY LOUNGE, GUIDANCE COUNCILOR'S OFFICE 1 & 2
TTC/IDF ROOM Fourth-Seventh Floor: STORAGE ROOM
SETS REQUIRED: 14 sets



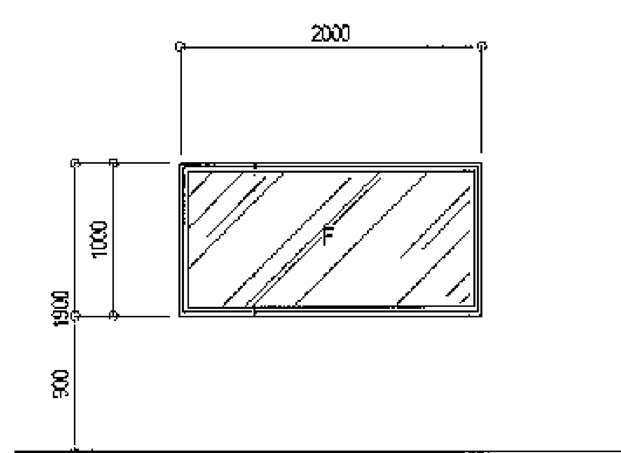
W-7
DESCRIPTION: 6mm THK. CLEAR GLASS ON STEEL FRAMES, PAINTED FINISH, PROVIDE 12mm SQUARE BAR SECURITY RAILS
TYPE: AWNING
LOCATION:
Ground Floor to Seventh Floor: PWD TOILET
SETS REQUIRED: 7 sets



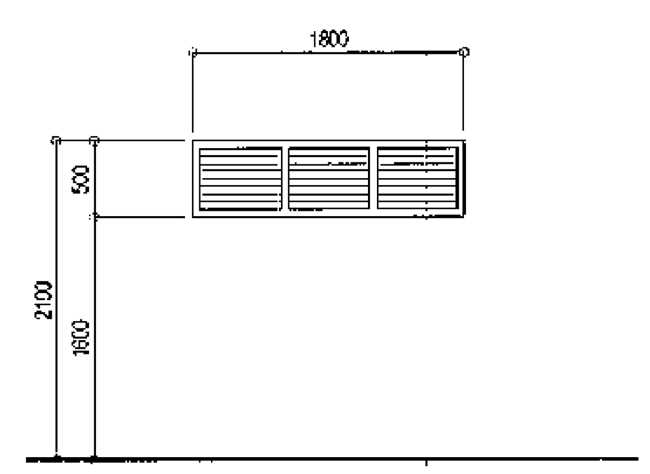
W-8
DESCRIPTION: 6mm THK. CLEAR GLASS ON ALUMINUM FRAMES, POWDER COATED
TYPE: FIXED
LOCATION:
Ground Floor: EXAM/ IMMUNIZATION ROOM; DENTAL ROOM; NURSE' ROOM
SETS REQUIRED: 3 sets



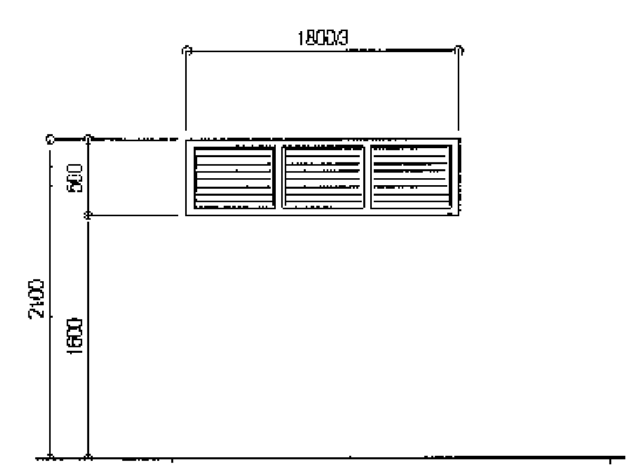
W-9
DESCRIPTION: 6mm THK. CLEAR GLASS ON ALUMINUM FRAMES, POWDER COATED
TYPE: FIXED
LOCATION:
Third Floor: GUIDANCE COUNCILOR'S OFFICE 1
SETS REQUIRED: 1 set



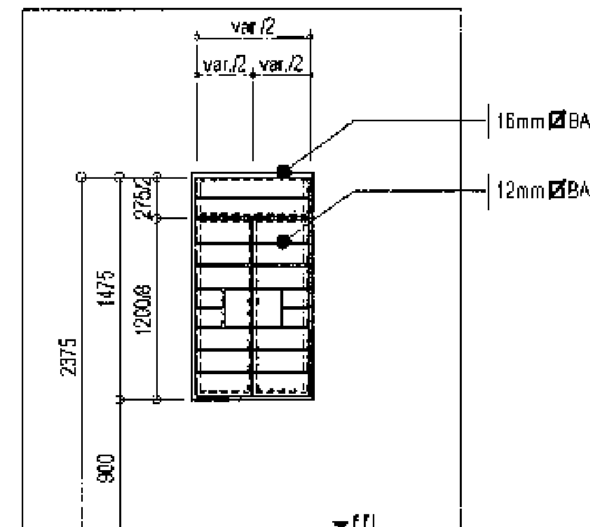
W-10
DESCRIPTION: 6mm THK. CLEAR GLASS ON ALUMINUM FRAMES, POWDER COATED
TYPE: FIXED
LOCATION:
Third Floor: MEETING ROOM (FACULTY OFFICE)
SETS REQUIRED: 1 set



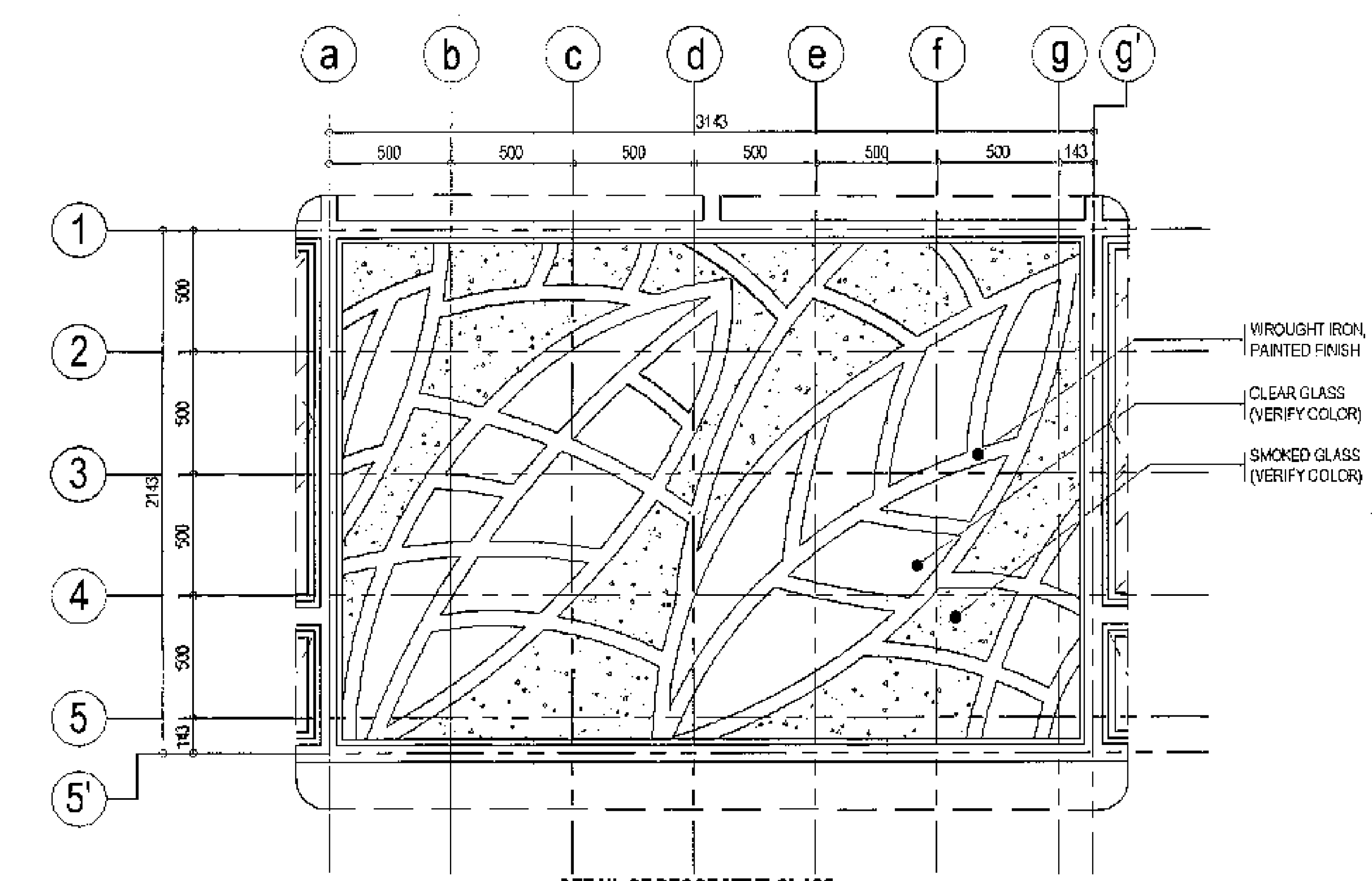
W-11
DESCRIPTION: 6mm THK. CLEAR GLASS ON ALUMINUM FRAMES, POWDER COATED
TYPE: JALOUSIE
LOCATION:
Third to Seventh Floor: LECTURE ROOMS; RAINWATER COLLECTOR ROOM; STORAGE/UTILITY
SETS REQUIRED: 68 sets



W-12
DESCRIPTION: METAL TYPE LOUVERED WINDOW, PAINTED FINISH (VERIFY COLOR)
TYPE: LOUVERED
LOCATION:
Ground Floor: E.E. ROOM; GENSET ROOM; PUMP ROOM
Roof Deck: UTILITY ROOM
SETS REQUIRED: 6 sets



DETAIL OF GRILLS
SCALE 1:50 METERS



DETAIL OF DECORATIVE GLASS
SCALE 1:25 METERS

1 SCHEDULE OF WINDOWS

SCALE 1:50 METERS

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CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

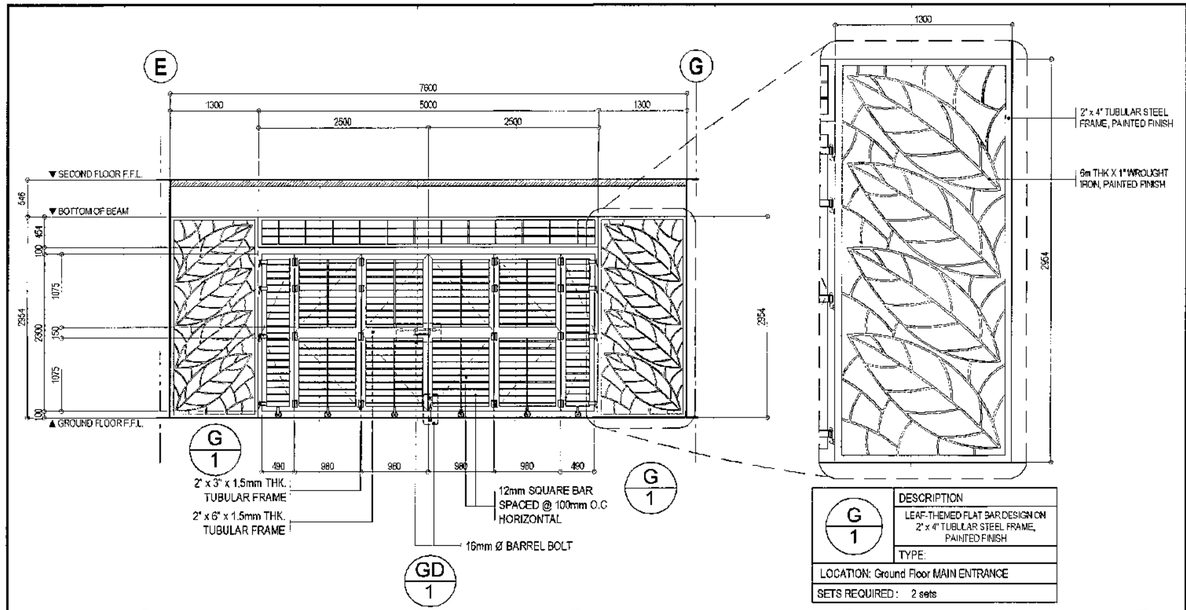
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN [7] STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS [PHASE 2]
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

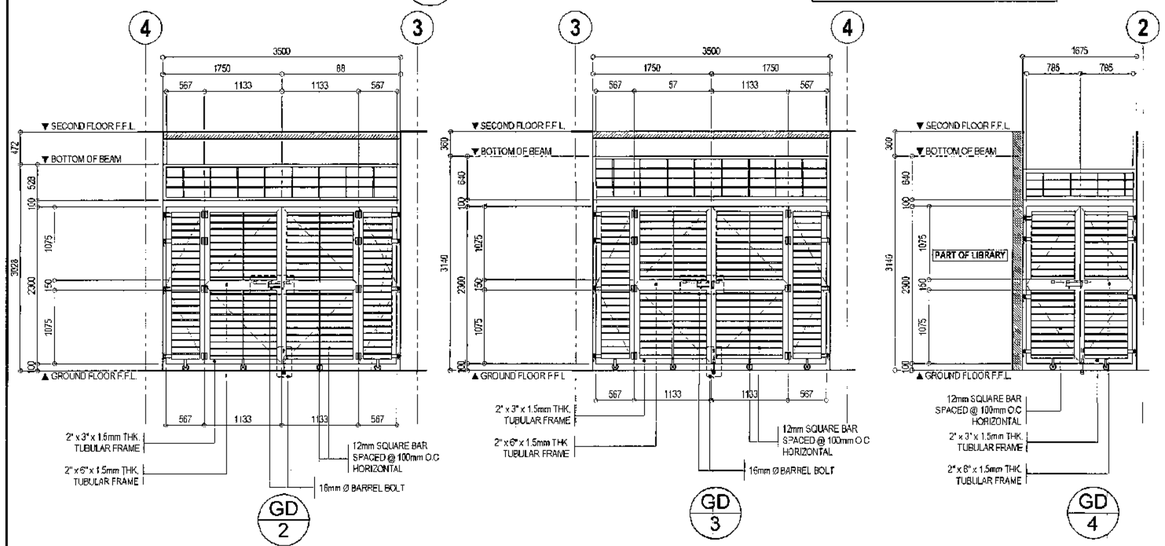
SHEET CONTENTS:
SCHEDULE OF WINDOWS

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E./M.S.R.B.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: AR-16

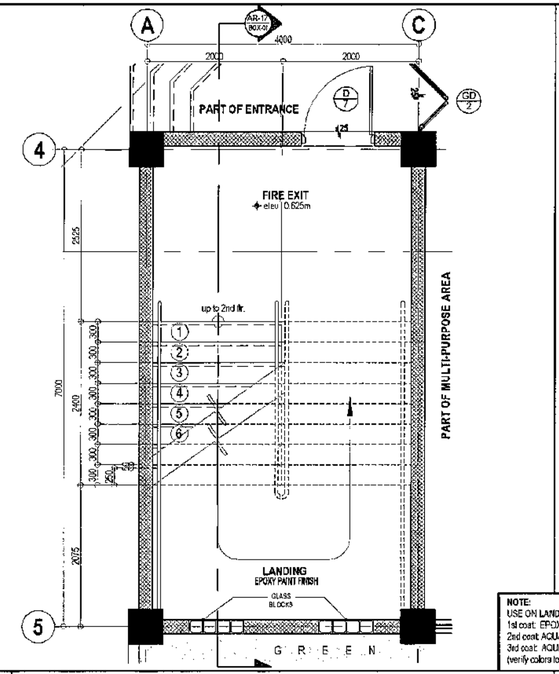




MARK	# OF UNITS	DESCRIPTION	LOCATION	REMARKS
GD 1	1	FOLDING STEEL GATE PAINTED FINISH (verify to the Architect)	MAIN ENTRANCE	
GD 2	1	FOLDING STEEL GATE PAINTED FINISH (verify to the Architect)	ENTRANCE AT LEFT SIDE	
GD 3	1	FOLDING STEEL GATE PAINTED FINISH (verify to the Architect)	ENTRANCE AT RIGHT SIDE	
GD 4	2	FOLDING STEEL GATE PAINTED FINISH (verify to the Architect)	COFFEE SHOP & SERVICE CORRIDOR AT GROUND FLR.	
TOTAL	5			

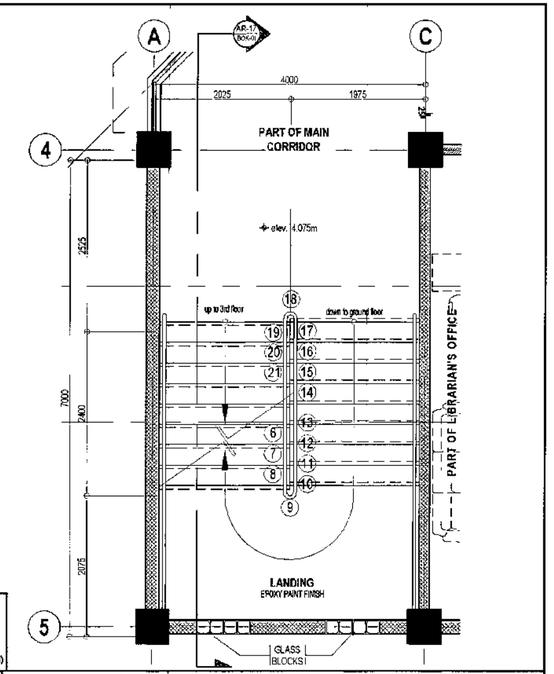
1 SCHEDULE OF GRILL DOORS (ENTRANCES)

SCALE 1:50 METERS



2 PLAN OF STAIRS 01 AT GROUND FLOOR

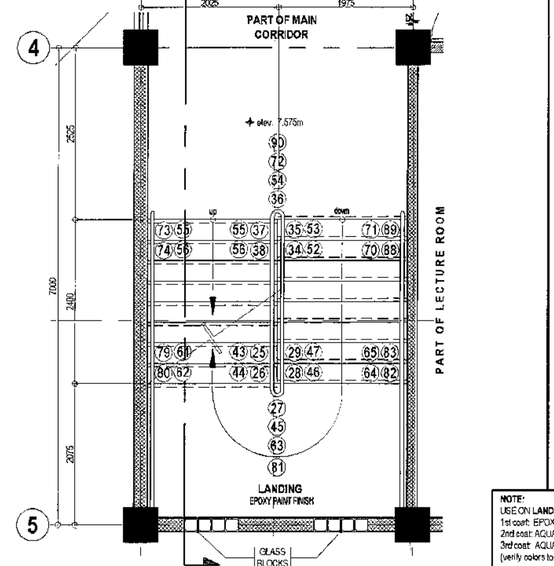
SCALE 1:50 METERS



NOTE:
USE ON LANDING
1st coat: EPOXY PRIMER
2nd coat: AQUA EPOXY
3rd coat: AQUA EPOXY
(verify colors to the architect)

3 PLAN OF STAIRS 01 AT SECOND FLOOR

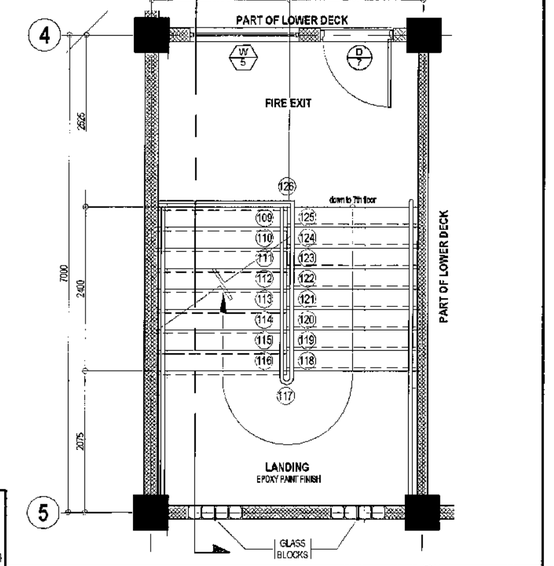
SCALE 1:50 METERS



NOTE:
USE ON LANDING
1st coat: EPOXY PRIMER
2nd coat: AQUA EPOXY
3rd coat: AQUA EPOXY
(verify colors to the architect)

4 TYPICAL PLAN OF STAIRS 01 AT 3RD TO 7TH FLR.

SCALE 1:50 METERS



5 PLAN OF STAIRS 01 AT LOWER DECK

SCALE 1:50 METERS

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CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (SRO. B4b), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SCHEDULE OF GRILL DOORS
PLANS OF STAIR 01

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E./M.S.F.B.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: **AR-17**

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Lungsod ng Quezon

CITY ARCHITECT DEPARTMENT
3F SPMC CENTER, BLDG. 864, QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, BRGY. DILIMAN, QUEZON CITY

PROVISC:

RECOMMENDING APPROVAL:

Ar. LUCILLE M. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU; MAIN CAMPUS (PHASE 2)

LOCATION: BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

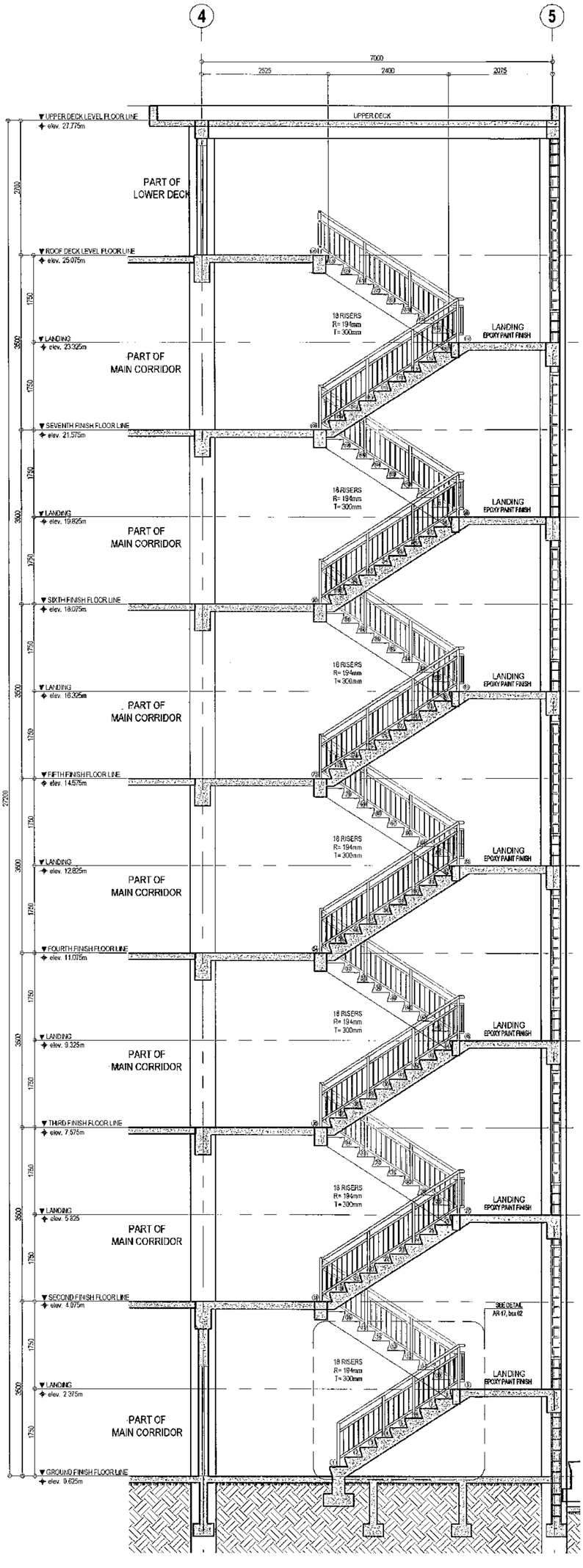
STAIR 01 SECTION
TYPICAL STAIR SPOT DETAIL
STAIR 02 PLAN AT GROUND FLOOR

PROJECT NO.:

DATE	November 2020
DRAWN BY	M.S.B.F
DESIGNED BY	Ar. M.S.Valmonte
CHECKED BY	Ar. R.G.Resurreccion

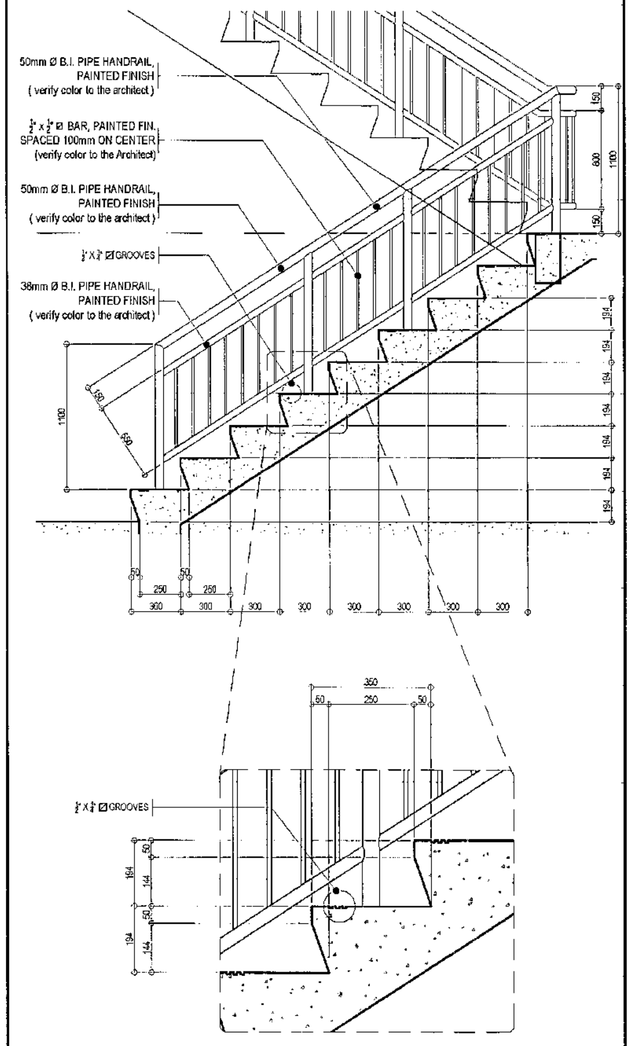
SHEET NO.:

AR-18

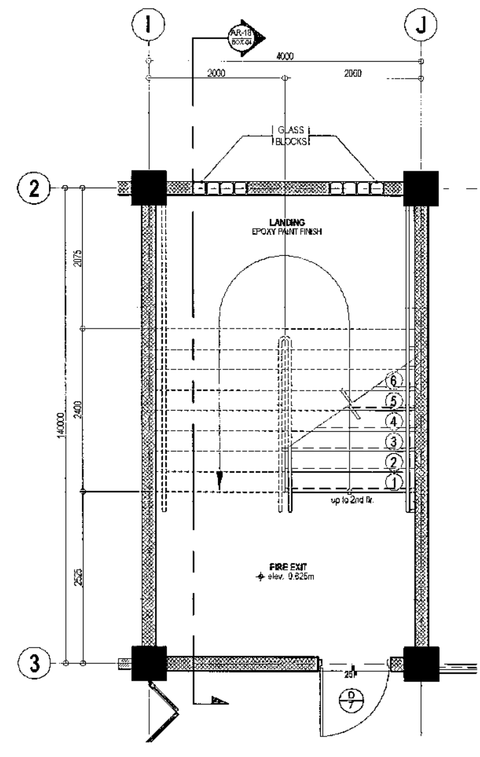


NOTE:
USE ON LANDING:
1st coat: EPOXY PRIMER (ver. color to the architect)
2nd coat: AQUA EPOXY (ver. color to the architect)
3rd coat: AQUA EPOXY (ver. color to the architect)

1 STAIR 01 SECTION SCALE 1:50 METERS



2 BLOW-UP DETAIL OF STAIR AND RAILING SCALE 1:20 METERS



3 PLAN OF STAIRS 02 AT GROUND FLOOR SCALE 1:50 METERS

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CITY ARCHITECT DEPARTMENT

SFDRC CENTER: D.JESC. BRG. QUEZON CITY HALL COMPOUND, ELIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU: MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

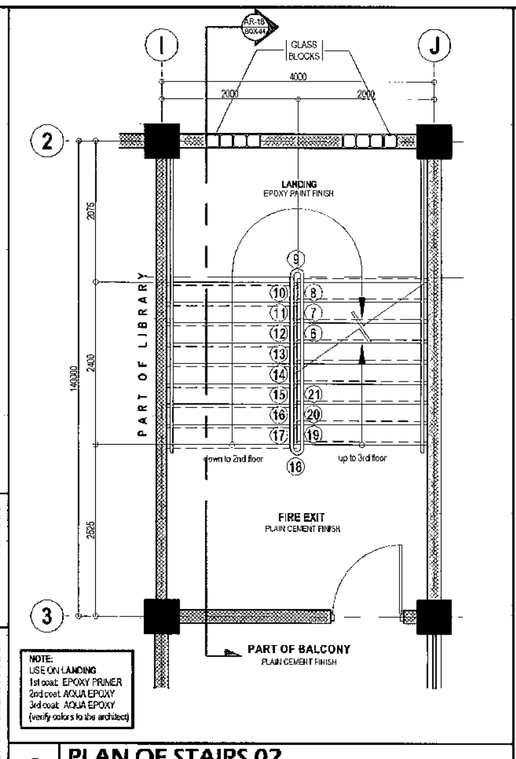
STAIR 02 PLAN AT SECOND FLOOR
TO ROOF DECK
STAIR 02 SECTION

PROJECT NO.:

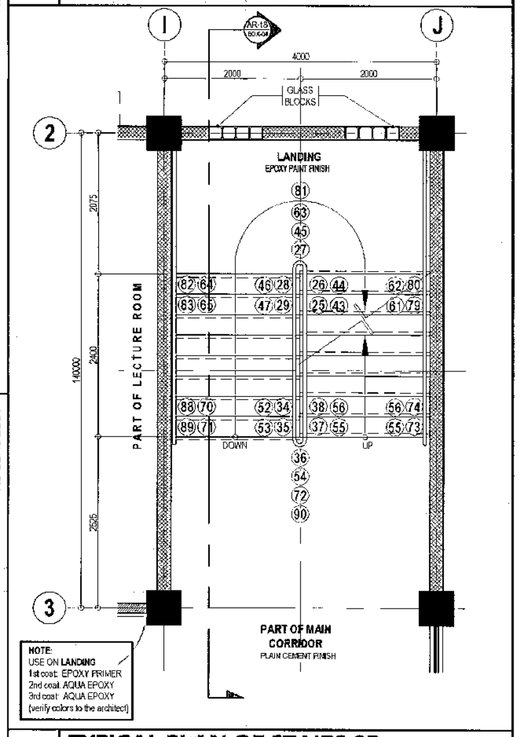
DATE	March-or-2020
DRAWN BY	M.S.S.F
DESIGNED BY	Ar. N.B.Ventura
CHECKED BY	Ar. R.G.Hesamedon

SHEET NO.:

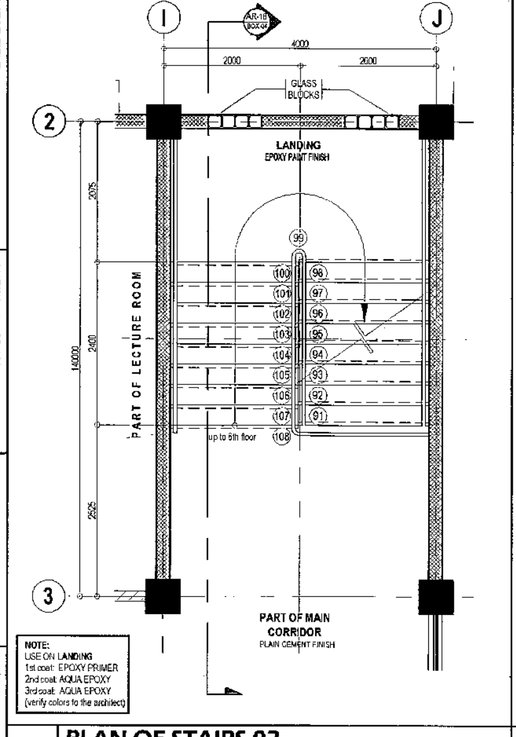
AR-19



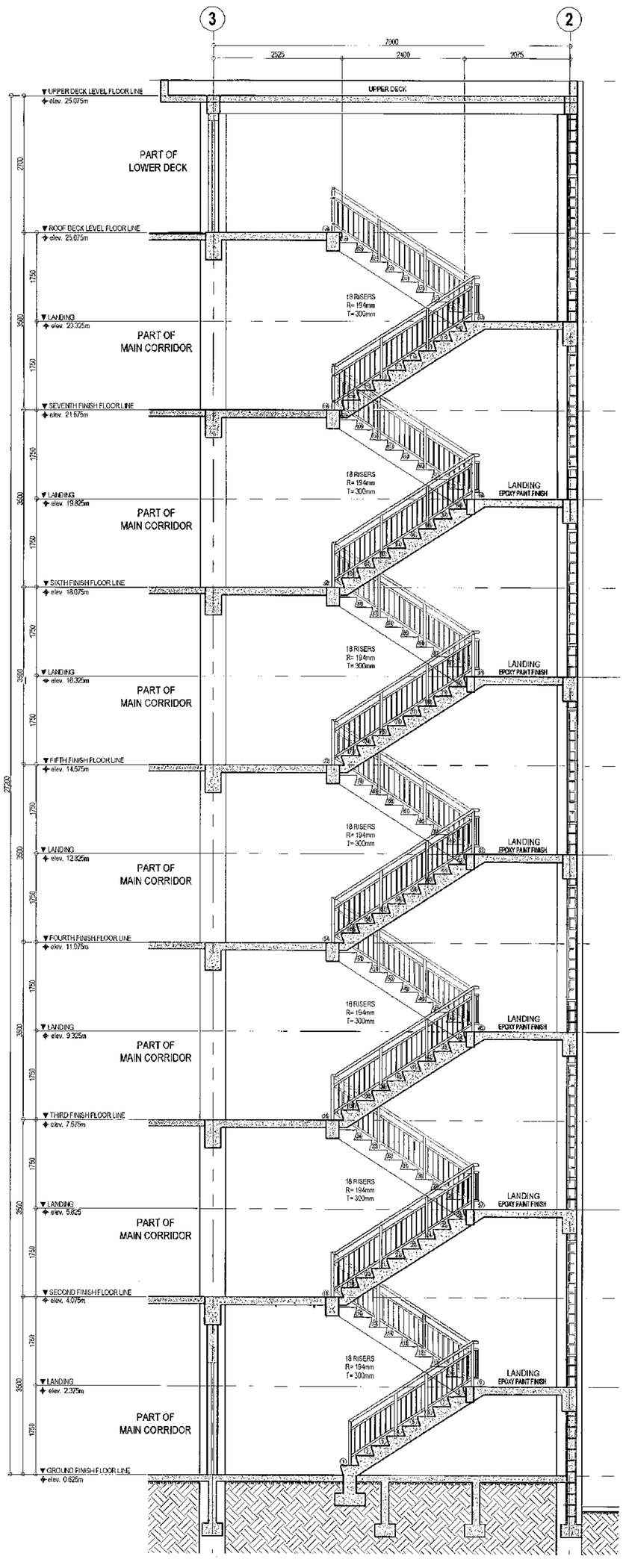
1 PLAN OF STAIRS 02 AT SECOND FLOOR SCALE 1:50 METERS



2 TYPICAL PLAN OF STAIRS 02 AT 3rd TO 7th FLR. SCALE 1:50 METERS

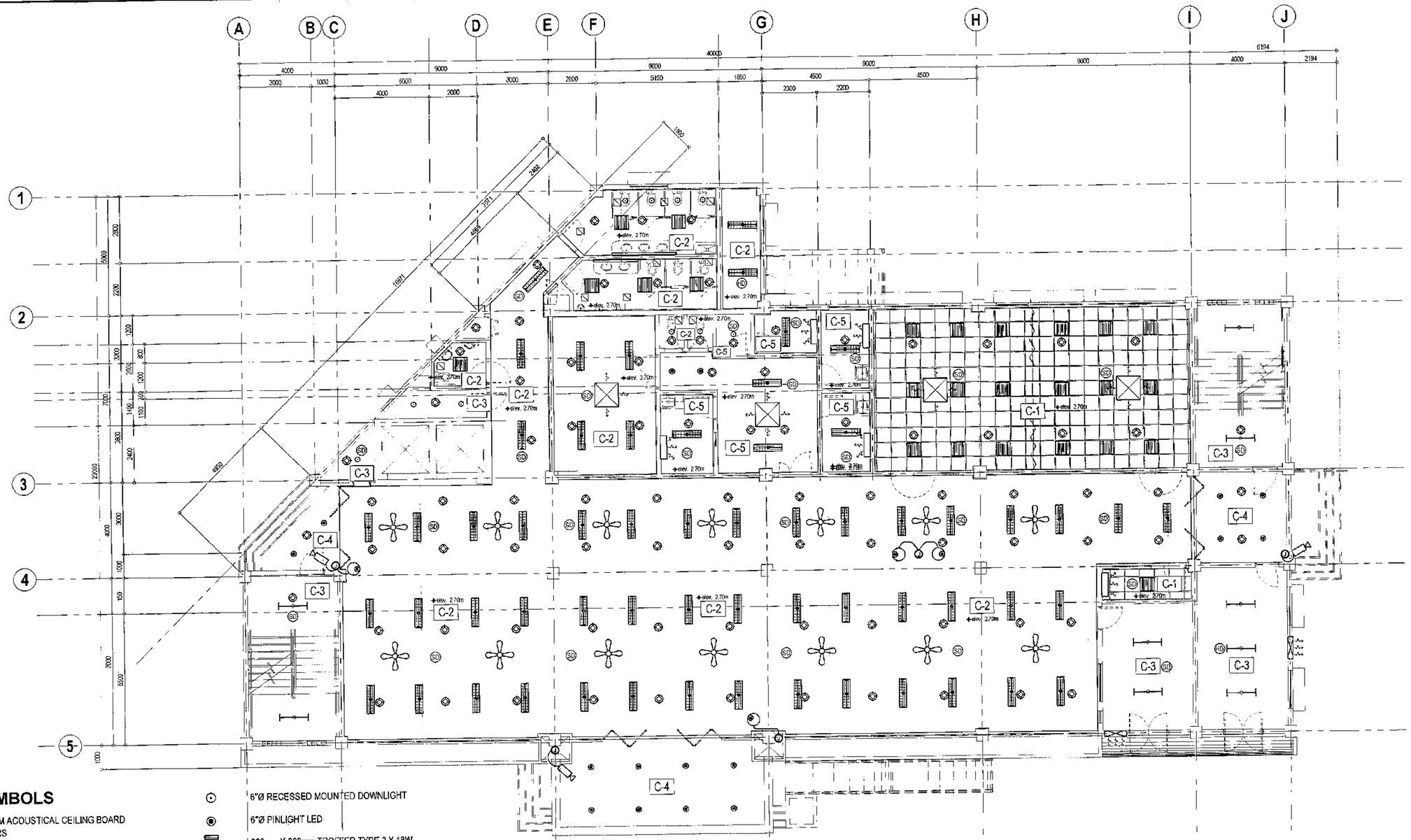


3 PLAN OF STAIRS 02 AT ROOF DECK LEVEL SCALE 1:50 METERS



NOTE:
USE ON LANDING:
1st coat: EPOXY PRIMER (ver. color to the architect)
2nd coat: AQUA EPOXY (ver. color to the architect)
3rd coat: AQUA EPOXY (ver. color to the architect)

4 STAIR 02 SECTION SCALE 1:50 METERS



LEGEND & SYMBOLS

C-1	600MM X 600MM ACOUSTICAL CEILING BOARD ON T - RUNNERS	⊙	6"Ø RECESSED MOUNTED DOWNLIGHT
C-2	12MM THK MOISTURE RESISTANT GYPSUM BOARD ON METAL FURRING, PAINTED FINISH	◉	6"Ø PINLIGHT LED
C-3	SLAB SOFFIT PAINTED FINISH (VERIFY COLOR TO ARCHITECT'S APPROVAL)		600mm X 600mm TROFFER TYPE 2 X 18W
C-4	FIBER CEMENT BOARD ON LIGHT METAL FRAMES, PAINTED FINISH		1 X 36 W/ LED BOX TYPE F.F. SURFACE MOUNTED (C - 3)
C-5	12MM THK ORDINARY GYPSUM CEILING BOARD ON METAL FRAMES, PAINTED FINISH		300mm X 1200mm TROFFER W/ 1 X 16 WATTS TUBE, RECESSED TYPE (C - 1)
		▨	CEILING MOUNTED EXHAUST FAN
		⊚	PENDENT SPRINKLER HEAD
			BEAM LINE
			CCTV
		SD	SMOKE DETECTOR
			INDUSTRIAL FAN

SCALE 1:100 METERS

1 GROUND FLOOR REFLECTED CEILING PLAN

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CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

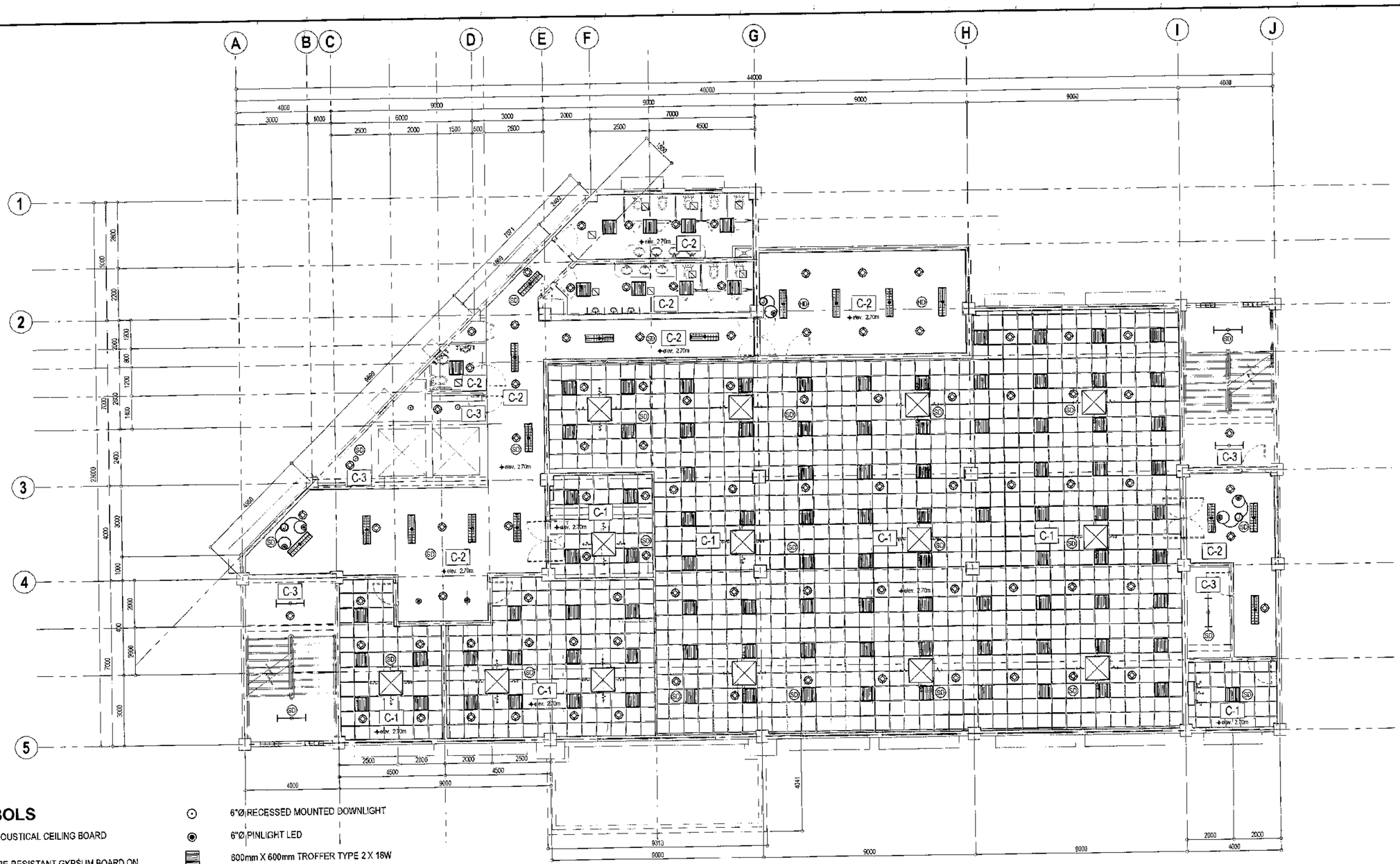
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
GROUND FLOOR REFLECTED CEILING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	A.A.V. / MSBF
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.:
AR-20



LEGEND & SYMBOLS

C-1	600MM X 600MM ACOUSTICAL CEILING BOARD ON T - RUNNERS
C-2	12MM THK MOISTURE RESISTANT GYPSUM BOARD ON METAL FURRING, PAINTED FINISH
C-3	SLAB SOFFIT PAINTED FINISH (VERIFY COLOR TO ARCHITECTS APPROVAL)
C-4	FIBER CEMENT BOARD ON LIGHT METAL FRAMES, PAINTED FINISH
C-5	12MM THK ORDINARY GYPSUM CEILING BOARD ON METAL FRAMES, PAINTED FINISH

	6"Ø RECESSED MOUNTED DOWNLIGHT
	6"Ø PINLIGHT LED
	600mm X 600mm TROFFER TYPE 2 X 18W
	1 X 36 W/ LED BOX TYPE F.F. SURFACE MOUNTED (C - 3)
	300mm X 1200mm TROFFER W/ 1 X 16 WATTS TUBE, RECESSED TYPE (C - 1)
	CEILING MOUNTED EXHAUST FAN
	PENDENT SPRINKLER HEAD
	BEAM LINE
CCTV	CCTV
SD	SMOKE DETECTOR
	INDUSTRIAL FAN

SCALE 1:100 METERS

1 SECOND FLOOR REFLECTED CEILING PLAN

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SP CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

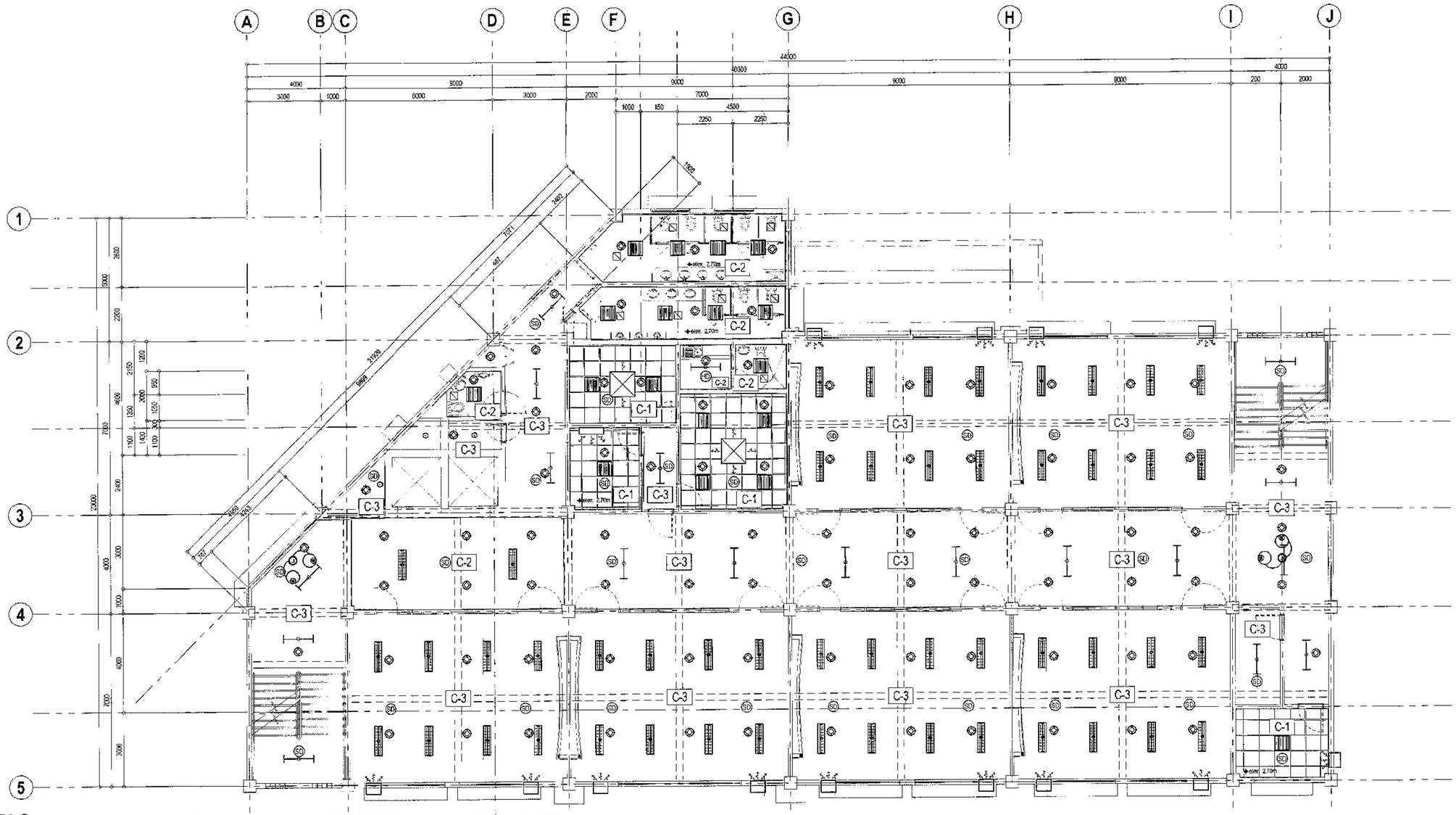
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SECOND FLOOR REFLECTED CEILING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	A.A.V. / M.S.B.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: **AR-21**



LEGEND & SYMBOLS

C-1	600MM X 600MM ACOUSTICAL CEILING BOARD ON T - RUNNERS
C-2	12MM THK MOISTURE RESISTANT GYPSUM BOARD ON METAL FURRING, PAINTED FINISH
C-3	SLAB SOFFIT PAINTED FINISH (VERIFY COLOR TO ARCHITECT'S APPROVAL)
C-4	FIBER CEMENT BOARD ON LIGHT METAL FRAMES, PAINTED FINISH
C-5	12MM THK ORDINARY GYPSUM CEILING BOARD ON METAL FRAMES, PAINTED FINISH

	6"Ø RECESSED MOUNTED DOWNLIGHT
	6"Ø PINLIGHT LED
	600mm X 600mm TROFFER TYPE 2 X 18W
	1 X 36 W/ LED BOX TYPE F.F. SURFACE MOUNTED (C - 3)
	300mm X 1200mm TROFFER W/ 1 X 16 WATTS TUBE, RECESSED TYPE (C - 1)
	CEILING MOUNTED EXHAUST FAN
	PENDENT SPRINKLER HEAD
	BEAM LINE
CCTV	CCTV
SD	SMOKE DETECTOR
	INDUSTRIAL FAN

1 THIRD FLOOR REFLECTED CEILING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

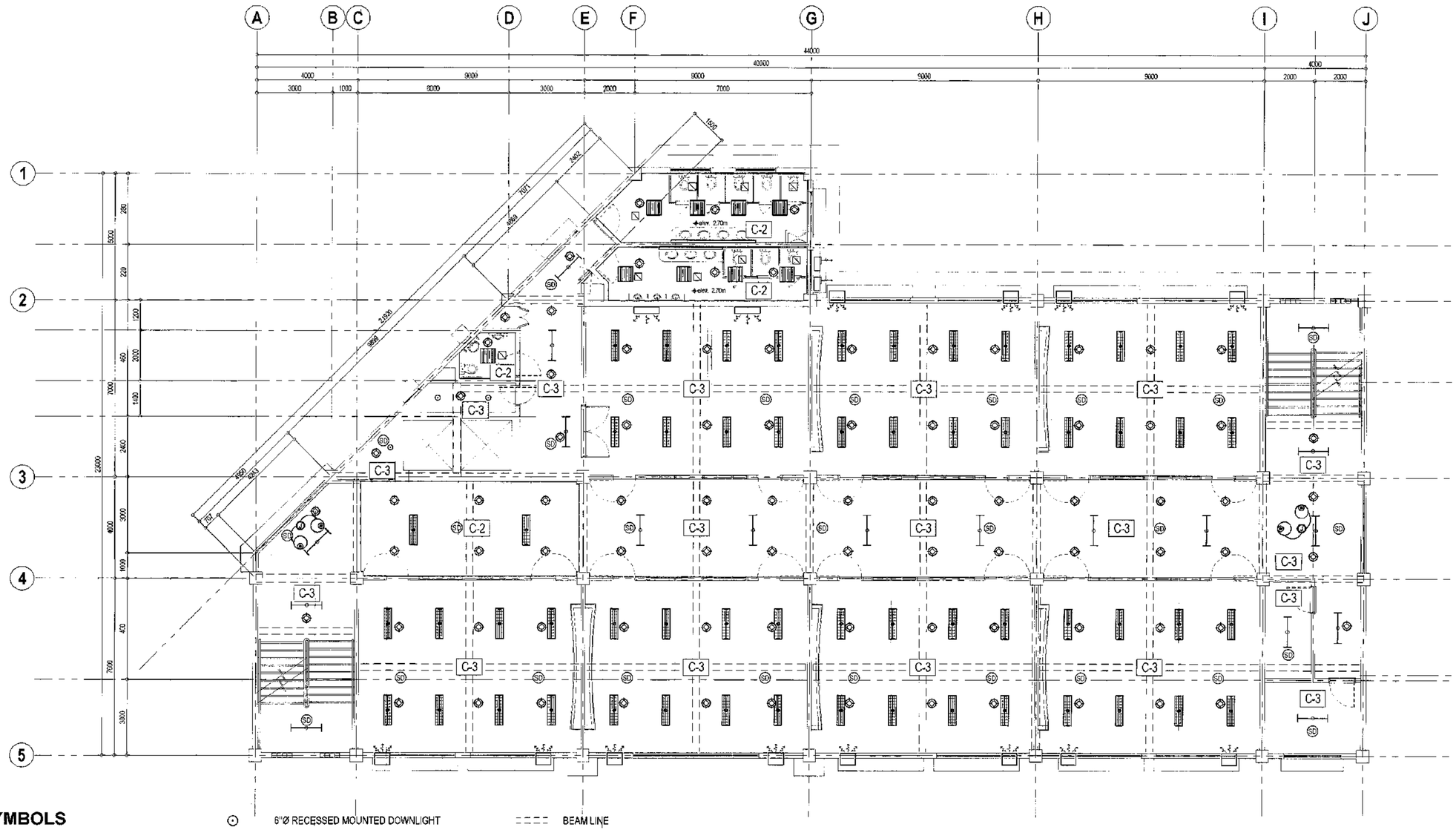
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ OCUJ MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
THIRD FLOOR REFLECTED CEILING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	A.A.V. / MSBF
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: **AR-22**



LEGEND & SYMBOLS

C-1	600MM X 600MM ACOUSTICAL CEILING BOARD ON T - RUNNERS
C-2	12MM THK MOISTURE RESISTANT GYPSUM BOARD ON METAL FURRING, PAINTED FINISH
C-3	SLAB SOFFIT PAINTED FINISH (VERIFY COLOR TO ARCHITECTS APPROVAL)
C-4	FIBER CEMENT BOARD ON LIGHT METAL FRAMES, PAINTED FINISH
C-5	12MM THK ORDINARY GYPSUM CEILING BOARD ON METAL FRAMES, PAINTED FINISH

	6"Ø RECESSED MOUNTED DOWNLIGHT
	6"Ø PINLIGHT LED
	600mm X 600mm TROFFER TYPE 2 X 18W
	1 X 36 W/ LED BOX TYPE F.F. SURFACE MOUNTED (C - 3)
	300mm X 1200mm TROFFER W/ 1 X 16 WATTS TUBE, RECESSED TYPE (C - 1)
	CEILING MOUNTED EXHAUST FAN
	PENDENT SPRINKLER HEAD
	BEAM LINE
CCTV	CCTV
SD	SMOKE DETECTOR
	INDUSTRIAL FAN

1 TYPICAL FOURTH FLOOR TO SIXTH FLOOR REFLECTED CEILING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITYHALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
Ar. LUCILLE U. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR

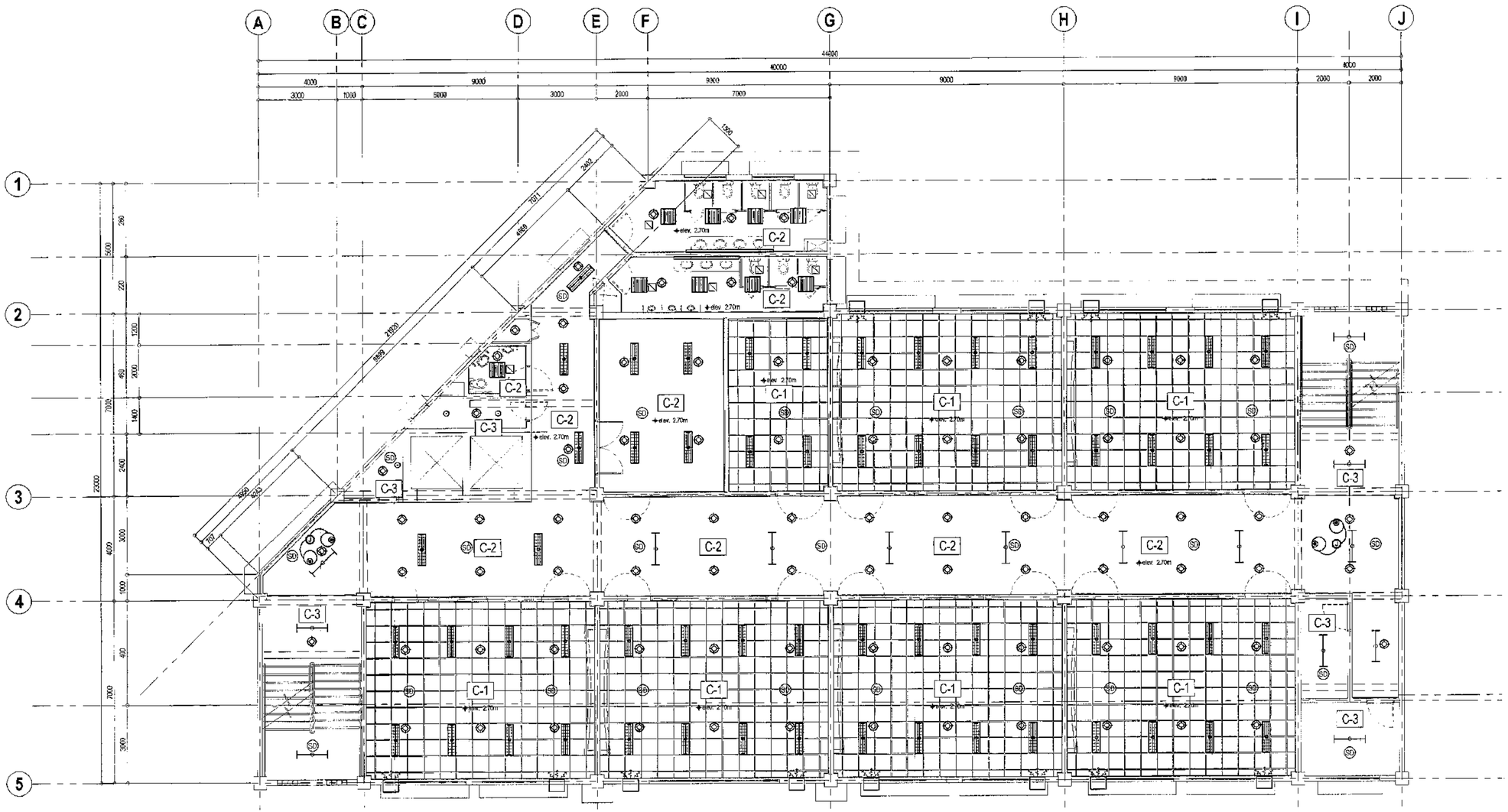
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
TYPICAL FOURTH TO SEVENTH FLOOR REFLECTED CEILING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	A.A.V. / MSBF
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.:
AR-23



LEGEND & SYMBOLS

C-1	600MM X 600MM ACOUSTICAL CEILING BOARD ON T - RUNNERS
C-2	12MM THK MOISTURE RESISTANT GYPSUM BOARD ON METAL FURRING, PAINTED FINISH
C-3	SLAB SOFFIT PAINTED FINISH (VERIFY COLOR TO ARCHITECTS APPROVAL)
C-4	FIBER CEMENT BOARD ON LIGHT METAL FRAMES, PAINTED FINISH
C-5	12MM THK ORDINARY GYPSUM CEILING BOARD ON METAL FRAMES, PAINTED FINISH

	6"Ø RECESSED MOUNTED DOWNLIGHT
	6"Ø PINLIGHT LED
	600mm X 600mm TROFFER TYPE 2 X 18W
	1 X 36 W/ LED BOX TYPE F.F. SURFACE MOUNTED (C - 3)
	300mm X 1200mm TROFFER W/ 1 X 16 WATTS TUBE, RECESSED TYPE (C - 1)
	CEILING MOUNTED EXHAUST FAN
	PENDENT SPRINKLER HEAD
	BEAM LINE
CCTV	CCTV
SD	SMOKE DETECTOR
	INDUSTRIAL FAN

1 SEVENTH FLOOR REFLECTED CEILING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO.,Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

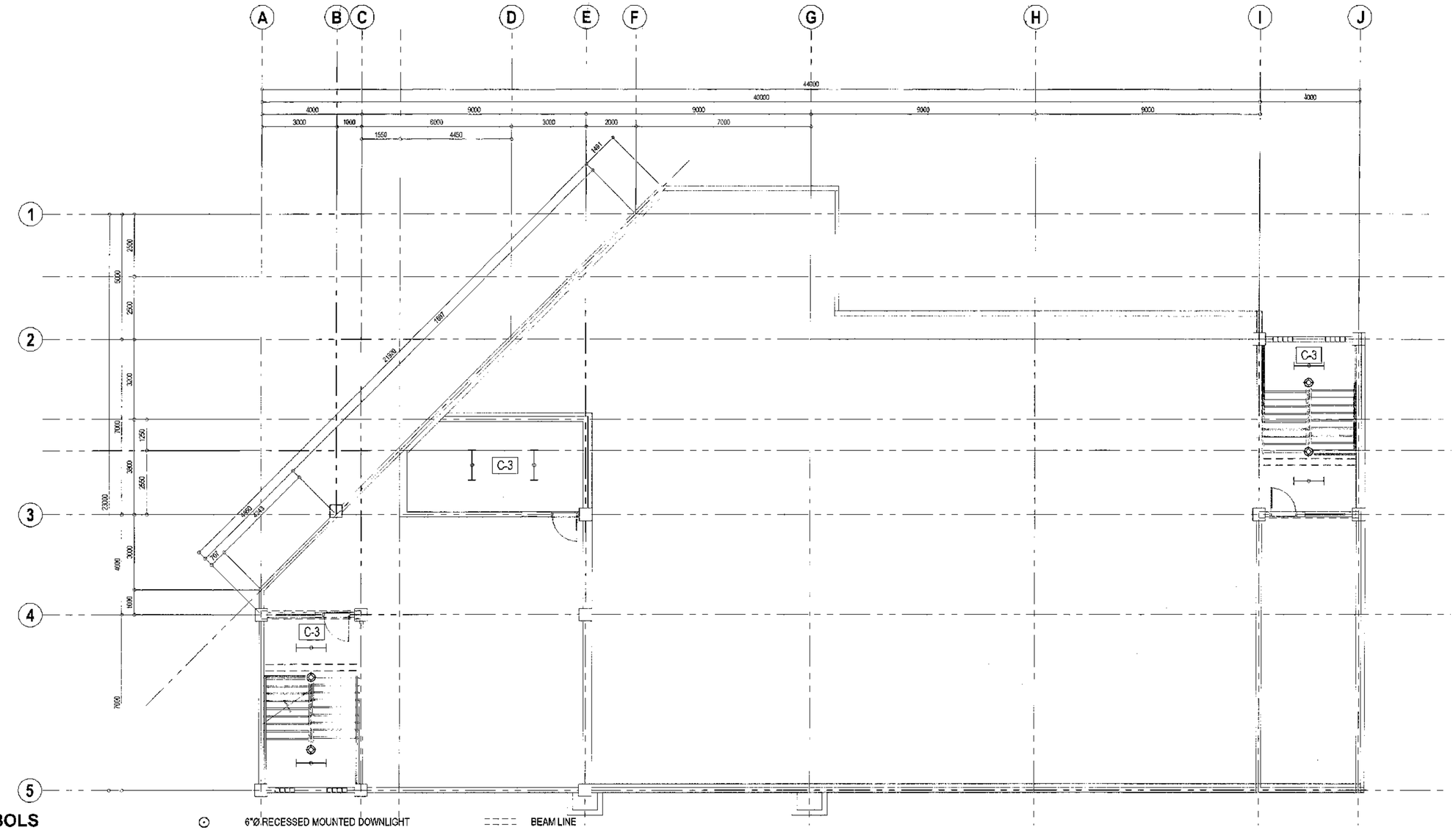
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2)
LOCATION : BRGY, SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SEVENTH FLOOR REFLECTED CEILING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	A.A.V. / MSBF
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: **AR-24**



LEGEND & SYMBOLS

C-1	600MM X 600MM ACOUSTICAL CEILING BOARD ON T - RUNNERS
C-2	12MM THK MOISTURE RESISTANT GYPSUM BOARD ON METAL FURRING, PAINTED FINISH
C-3	SLAB SOFFIT PAINTED FINISH (VERIFY COLOR TO ARCHITECTS APPROVAL)
C-4	FIBER CEMENT BOARD ON LIGHT METAL FRAMES, PAINTED FINISH
C-5	12MM THK ORDINARY GYPSUM CEILING BOARD ON METAL FRAMES, PAINTED FINISH

	6"Ø RECESSED MOUNTED DOWNLIGHT
	6"Ø PINLIGHT LED
	600mm X 600mm TROFFER TYPE 2 X 18W
	1 X 36 W/ LED BOX TYPE F.F. SURFACE MOUNTED (C - 3)
	300mm X 1200mm TROFFER W/ 1 X 16 WATTS TUBE, RECESSED TYPE (C - 1)
	CEILING MOUNTED EXHAUST FAN
	PENDENT SPRINKLER HEAD
	BEAM LINE
CCTV	CCTV
SD	SMOKE DETECTOR
	INDUSTRIAL FAN

1 ROOF DECK REFLECTED CEILING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

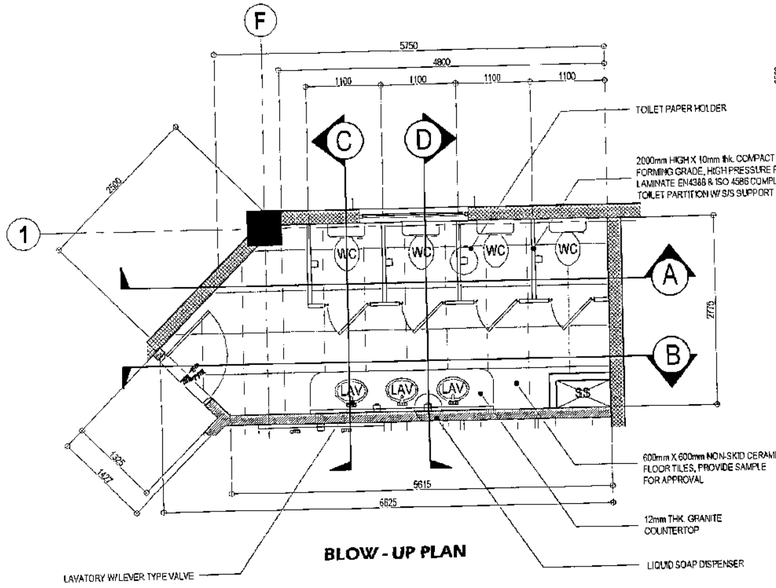
ROOF DECK REFLECTED CEILING PLAN

PROJECT NO.:

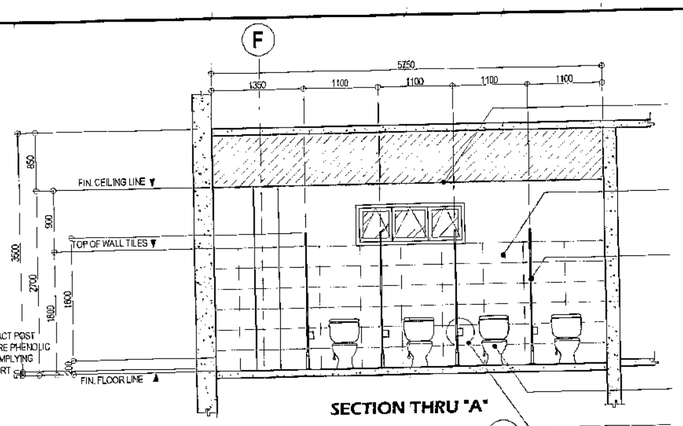
DATE	November 2020
DRAWN BY	A.A.V. / MSBF
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.:

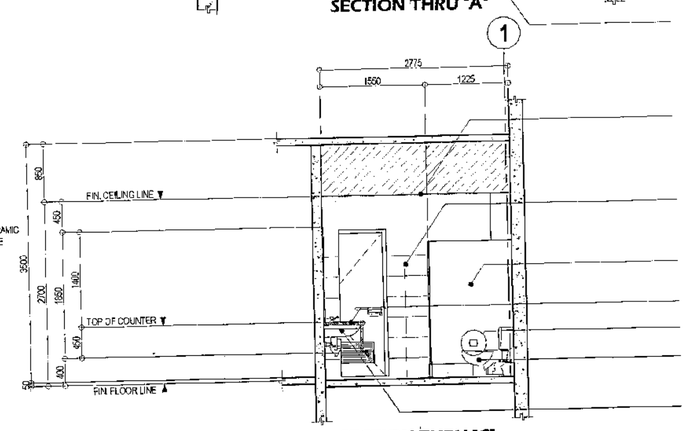
AR-25



BLOW - UP PLAN



SECTION THRU "A"



SECTION THRU "C"

12mm THK. MOISTURE RESISTANT GYPSUM BOARD ON LIGHT WEIGHT ALUMINUM FRAMES

¼" THK. FACIAL MIRROR ON ¼" THK. MARINE PLYWOOD BACKING

300mm X 600mm GLAZED CERAMIC WALL TILES

2000mm HIGH X 10mm thk. COMPACT POST FORMING GRADE, HIGH PRESSURE PHENOLIC LAMINATE EN4388 & ISO 4586 COMPLYING TOILET PARTITION W/ S/S SUPPORT

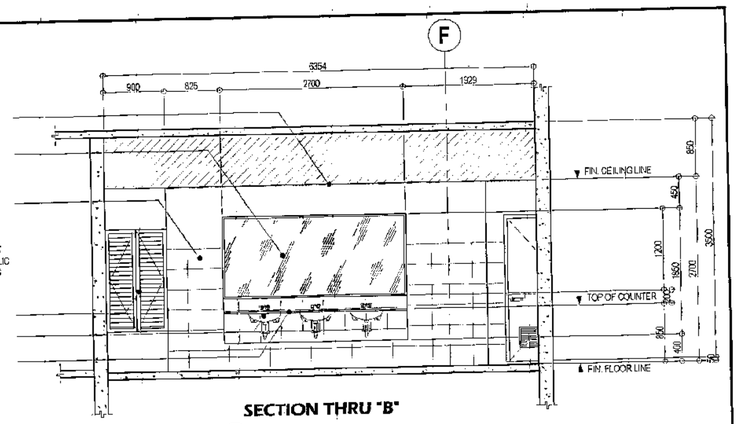
FULLY LOUVERED WOOD DOOR, PAINTED FINISH

LAVATORY WITH LEVER TYPE VALVE

12mm THK. GRANITE COUNTER TOP

TANK TYPE WATER CLOSET (COLOR & DESIGN TO ARCHITECTS APPROVAL)

TOILET PAPER HOLDER



SECTION THRU "B"

12mm THK. MOISTURE RESISTANT GYPSUM BOARD ON LIGHT WEIGHT ALUMINUM FRAMES

300mm X 600mm GLAZED CERAMIC WALL TILES

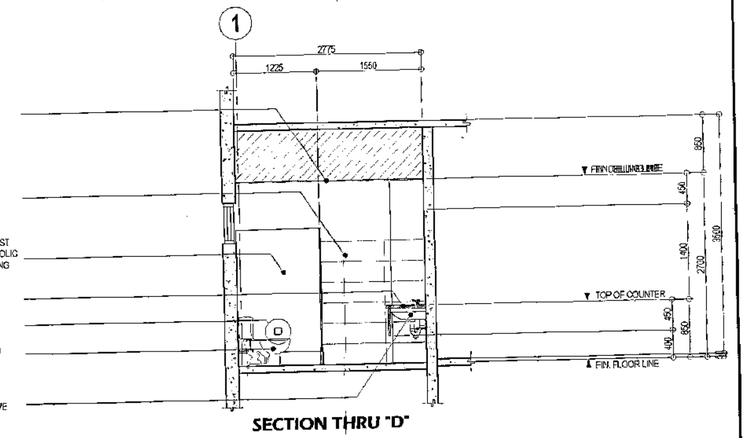
2000mm HIGH X 10mm thk. COMPACT POST FORMING GRADE, HIGH PRESSURE PHENOLIC LAMINATE EN4388 & ISO 4586 COMPLYING TOILET PARTITION W/ S/S SUPPORT

12mm THK. GRANITE COUNTER TOP

TOILET PAPER HOLDER

1- PIECE, TANK TYPE ELONGATED WATER CLOSET W/ BIDET SPRAY

LAVATORY WITH LEVER TYPE VALVE



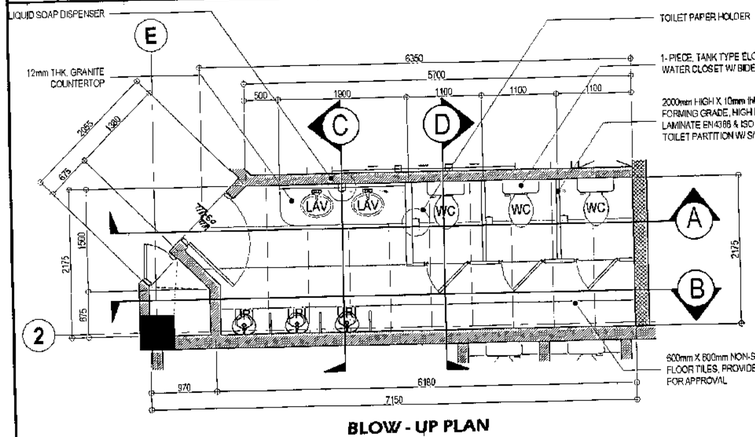
SECTION THRU "D"

NOTES : PROVIDE TOILETS WITH:

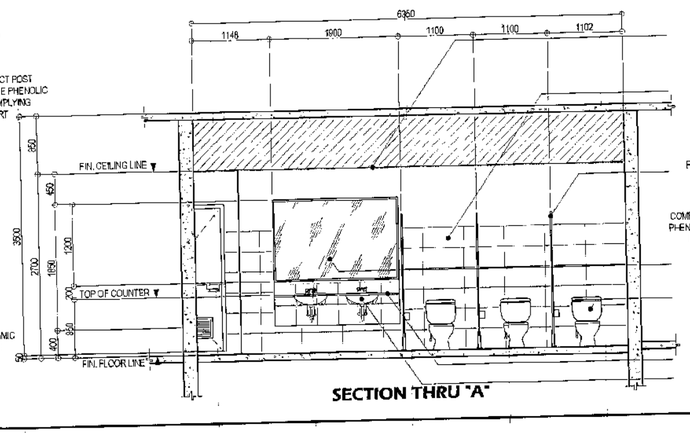
1. BIDET SPRAY @EVERY WATER CLOSET
2. LIQUID SOAP DISPENSER @LAVATORY
3. ONE ROBE HOOK ON EACH CUBICLE @1.70m MOUNTING HEIGHT
4. TOILET PAPER HOLDER ON EACH CUBICLE
5. 19mm THK. X 150mm THK. WIDE HIGH PRESSURE PHENOLIC LAMINATED LEDGE ON EACH CUBICLE ABOVE WATER CLOSETS & ABOVE URINALS

SCALE 1:50 METERS

1 FEMALE TOILET (GROUND FLOOR)



BLOW - UP PLAN



SECTION THRU "A"

12mm THK. MOISTURE RESISTANT GYPSUM BOARD ON LIGHT WEIGHT ALUMINUM FRAMES

300mm X 600mm GLAZED CERAMIC WALL TILES

2000mm HIGH X 10mm thk. COMPACT POST FORMING GRADE, HIGH PRESSURE PHENOLIC LAMINATE EN4388 & ISO 4586 COMPLYING TOILET PARTITION W/ S/S SUPPORT

450mm WIDE x 1500mm HIGH x 10mm thk. COMPACT POST FORMING GRADE, HIGH PRESSURE PHENOLIC LAMINATE EN4388 & ISO 4586 COMPLYING URINAL PARTITION W/ 50mm HT SUPPORT

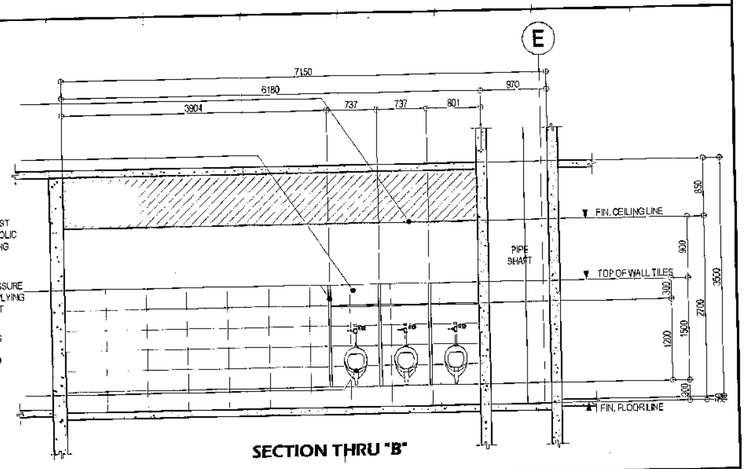
¼" THK. FACIAL MIRROR ON ¼" THK. MARINE PLYWOOD BACKING

1-PIECE, TANK TYPE ELONGATED WATER CLOSET W/ BIDET SPRAY

URINAL (COLOR & DESIGN TO ARCHITECTS APPROVAL)

12mm THK. GRANITE COUNTER TOP

LAVATORY WITH LEVER TYPE VALVE



SECTION THRU "B"

SCALE 1:50 METERS

2 MALE TOILET (GROUND FLOOR)

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC, CITY ENGINEER

APPROVED BY:

HON. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
TOILET DETAIL

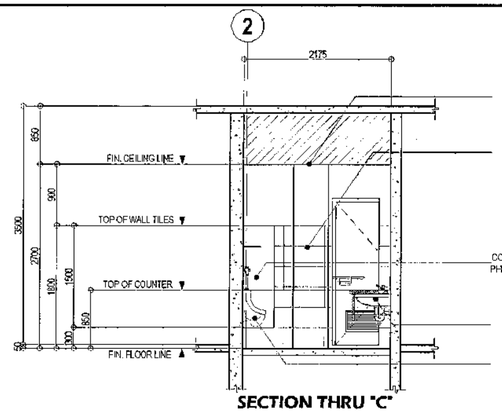
PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E/ A.A.V
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

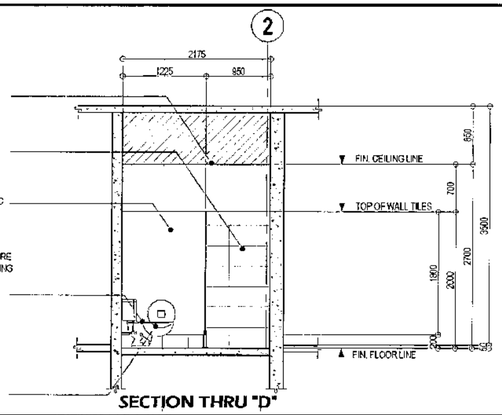
SHEET NO.:
AR-26

NOTES : PROVIDE TOILETS WITH:

1. BIDET SPRAY @EVERY WATER CLOSET
2. LIQUID SOAP DISPENSER @LAVATORY
3. ONE ROBE HOOK ON EACH CUBICLE @ 1.70m MOUNTING HEIGHT
4. TOILET PAPER HOLDER ON EACH CUBICLE
5. 19mm THK. X 150mm THK. WIDE HIGH-PRESSURE PHENOLIC LAMINATED LEDGE ON EACH CUBICLE ABOVE WATER CLOSETS & ABOVE URINALS



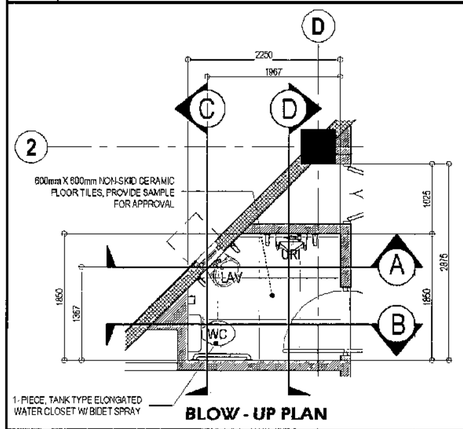
SECTION THRU "C"



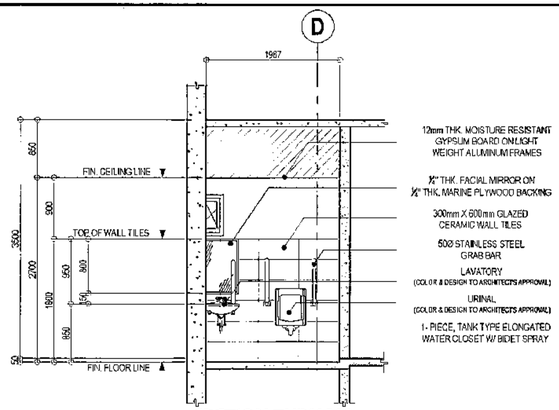
SECTION THRU "D"

1 MALE TOILET (GROUND FLOOR)

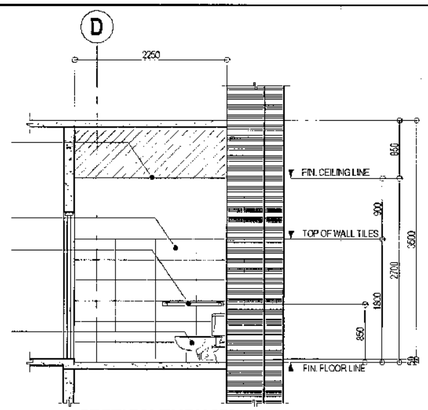
SCALE 1:50 METERS



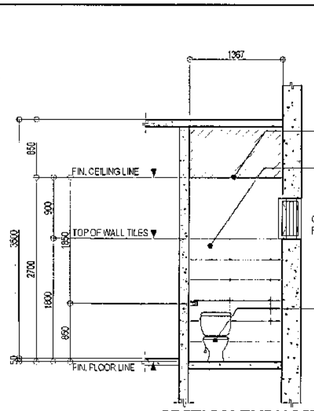
BLOW - UP PLAN



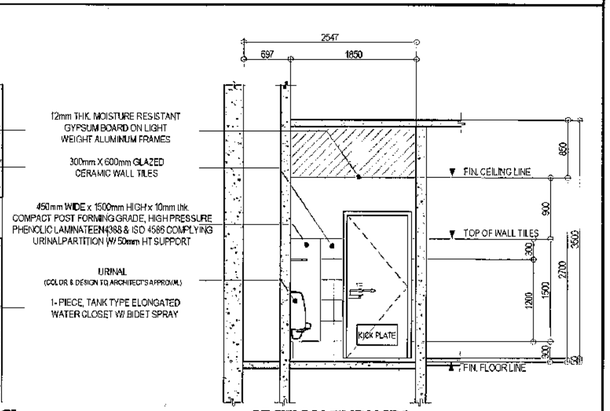
SECTION THRU "A"



SECTION THRU "B"



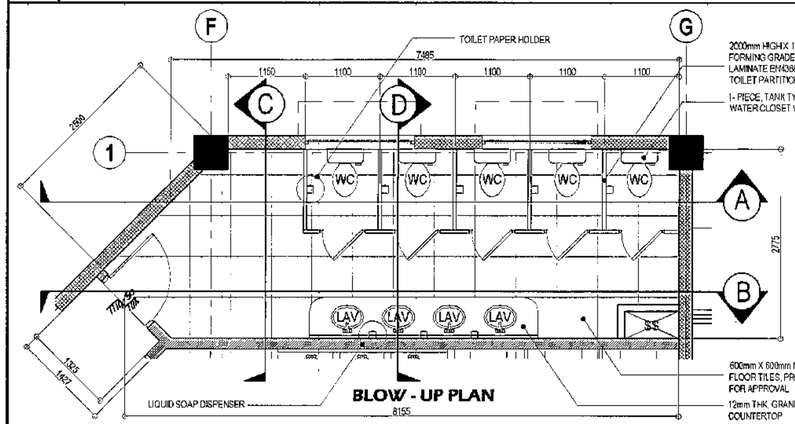
SECTION THRU "C"



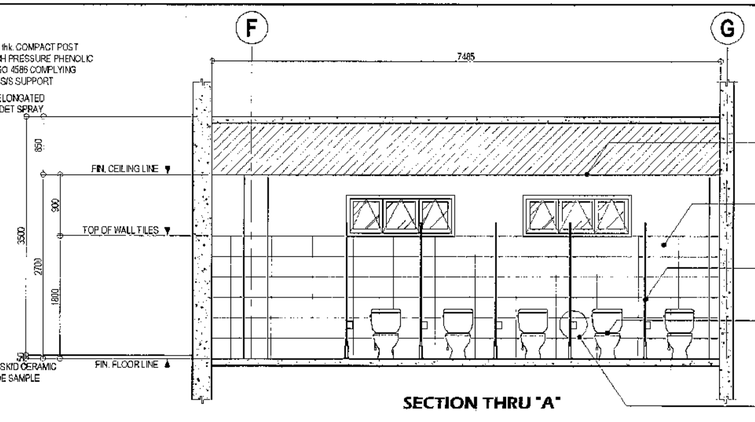
SECTION THRU "D"

2 PWD TOILET (TYPICAL GROUND TO SEVENTH FLOOR)

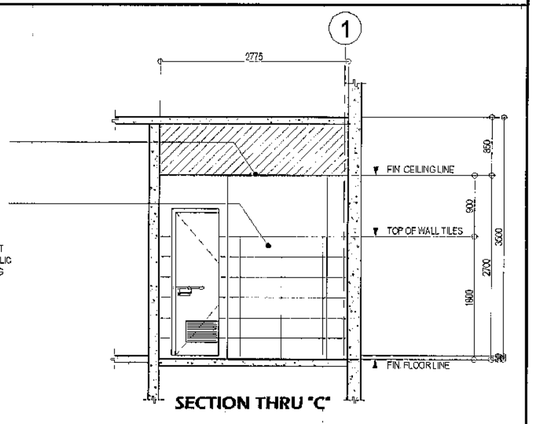
SCALE 1:50 METERS



BLOW - UP PLAN



SECTION THRU "A"



SECTION THRU "C"

3 FEMALE TOILET (TYPICAL SECOND TO SEVENTH FLOOR)

SCALE 1:50 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC, CITY ENGINEER

APPROVED BY :

HON. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

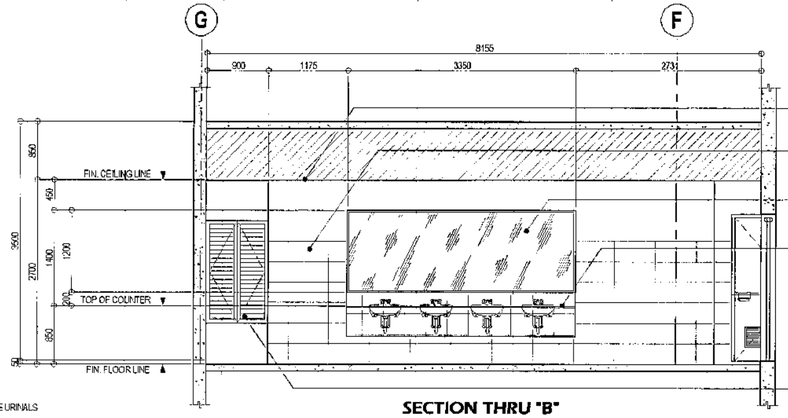
TOILET DETAIL

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E/ A.A.V
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.:

AR-27



SECTION THRU "B"

12mm THK. MOISTURE RESISTANT GYPSUM BOARD ON LIGHT WEIGHT ALUMINUM FRAMES

300mm X 600mm GLAZED CERAMIC WALL TILES

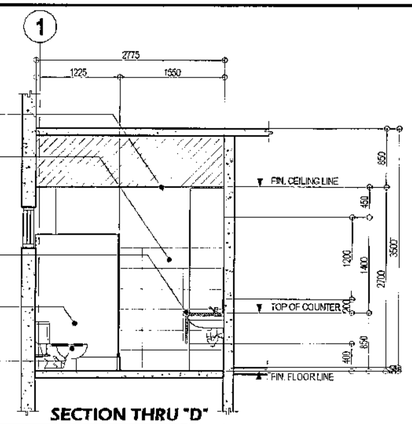
½" THK. FACIAL MIRROR ON ½" THK. MARINE PLYWOOD BACKING

12mm THK. GRANITE COUNTERTOP

2000mm HIGH X 10mm thk. COMPACT POST FORMING GRADE, HIGH PRESSURE PHENOLIC LAMINATE EN438 & ISO 4586 COMPLYING TOILET PARTITION W/ S/S SUPPORT

1- PIECE, TANK TYPE ELONGATED WATER CLOSET W/BIDET SPRAY

FULLY LOUVERED WOOD DOOR, PAINTED FINISH



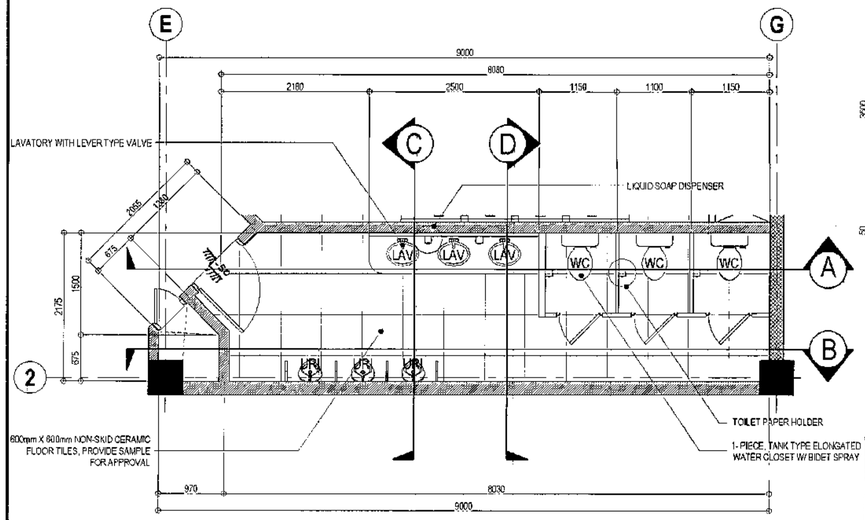
SECTION THRU "D"

NOTES : PROVIDE TOILETS WITH:

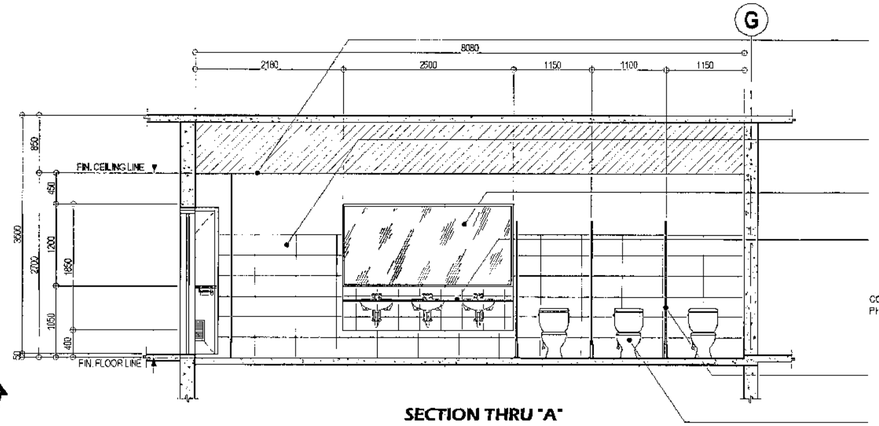
1. BIDET SPRAY @EVERY WATER CLOSET
2. LIQUID SOAP DISPENSER @LAVATORY
3. ONE ROBE HOOK ON EACH CUBICLE @1.70m MOUNTING HEIGHT
4. TOILET PAPER HOLDER ON EACH CUBICLE
5. 19mm THK. X 150mm THK. WIDE HIGH PRESSURE PHENOLIC LAMINATED LEDGE ON EACH CUBICLE ABOVE WATER CLOSETS & ABOVE URINALS

1 FEMALE TOILET (TYPICAL SECOND TO SEVENTH FLOOR)

SCALE 1:50 METERS



BLOW - UP PLAN



SECTION THRU "A"

12mm THK. MOISTURE RESISTANT GYPSUM BOARD ON LIGHT WEIGHT ALUMINUM FRAMES

300mm X 600mm GLAZED CERAMIC WALL TILES

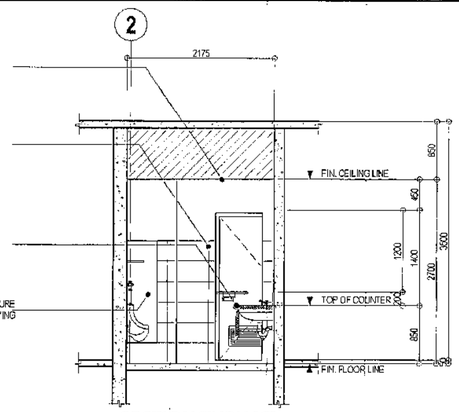
½" THK. FACIAL MIRROR ON ½" THK. MARINE PLYWOOD BACKING

12mm THK. GRANITE COUNTERTOP

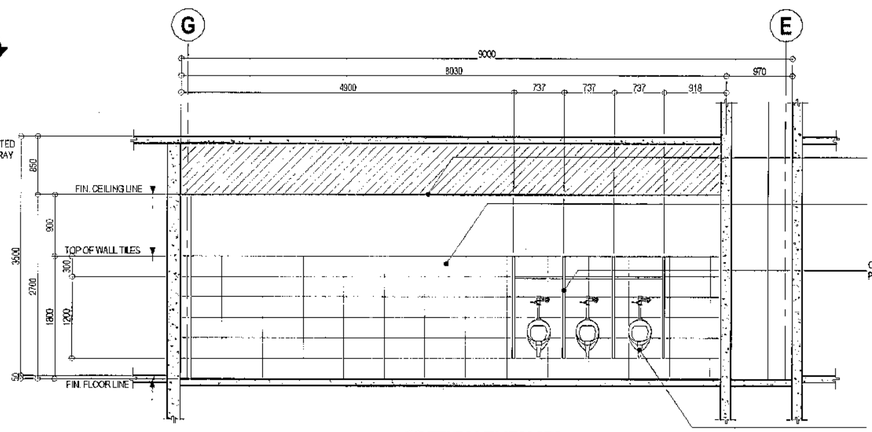
450mm WIDE x 1500mm HIGH x 10mm thk. COMPACT POST FORMING GRADE, HIGH PRESSURE PHENOLIC LAMINATE EN438 & ISO 4586 COMPLYING URINAL PARTITION W/ 50mm HT SUPPORT

2000mm HIGH X 10mm THK. LAMINATE COMPACT POST FORMING GRADE, HIGH PRESSURE

1- PIECE, TANK TYPE ELONGATED WATER CLOSET W/ BIDET SPRAY



SECTION THRU "C"



SECTION THRU "B"

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300mm X 600mm GLAZED CERAMIC WALL TILES

450mm WIDE x 1500mm HIGH x 10mm thk. COMPACT POST FORMING GRADE, HIGH PRESSURE PHENOLIC LAMINATE EN438 & ISO 4586 COMPLYING URINAL PARTITION W/ 50mm HT SUPPORT

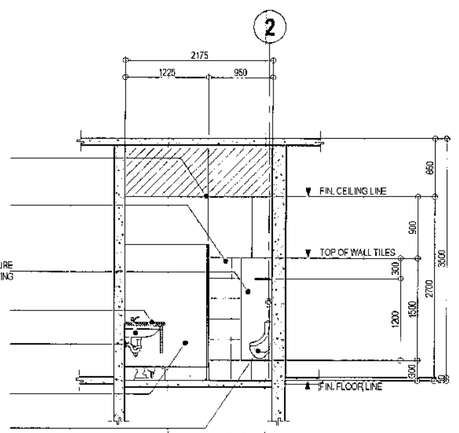
12mm THK. GRANITE COUNTERTOP

LAVATORY WITH LEVER TYPE VALVE

2000mm HIGH X 10mm THK. LAMINATE COMPACT POST FORMING GRADE, HIGH PRESSURE

URINAL

(COLOR & DESIGN TO ARCHITECTS APPROVAL)



SECTION THRU "D"

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2 MALE TOILET (TYPICAL SECOND TO SEVENTH FLOOR)

SCALE 1:50 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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Engr. ISAGANI R. VERZOSA Jr.
DIC, CITY ENGINEER

APPROVED BY :

HON. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

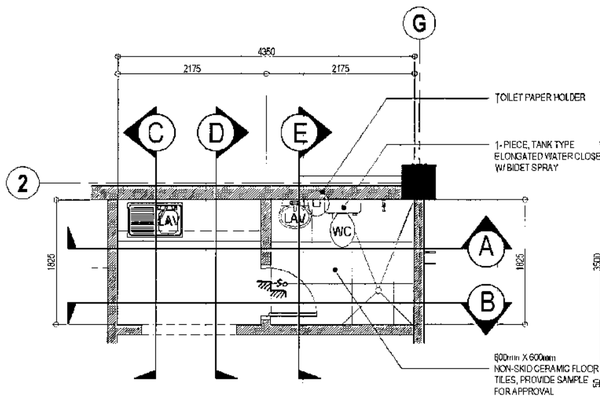
SHEET CONTENTS :

TOILET DETAIL

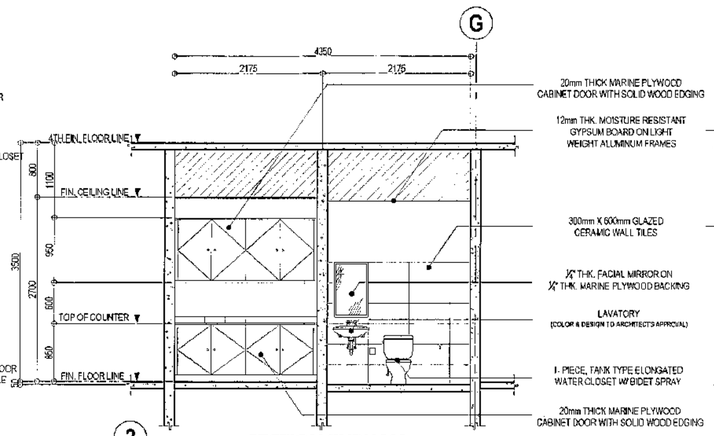
PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E/ A.A.V.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: AR-28



BLOW - UP PLAN



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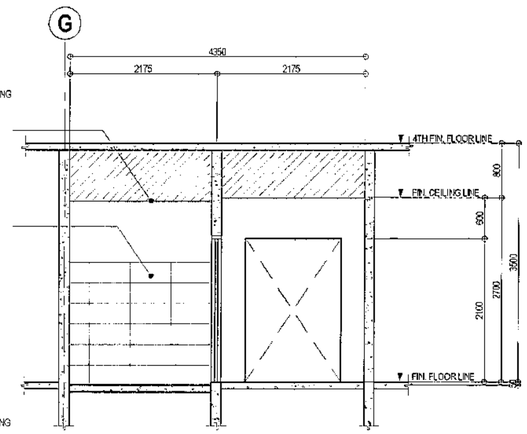

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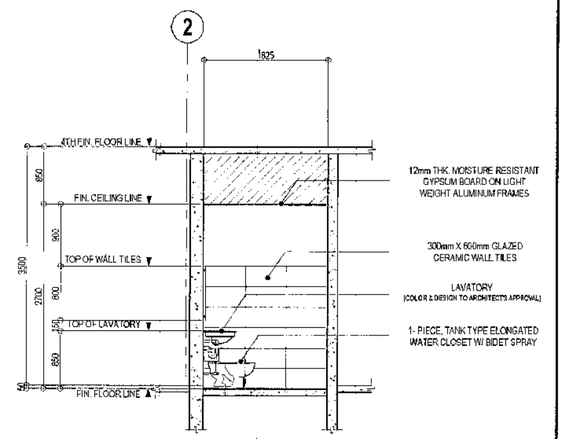

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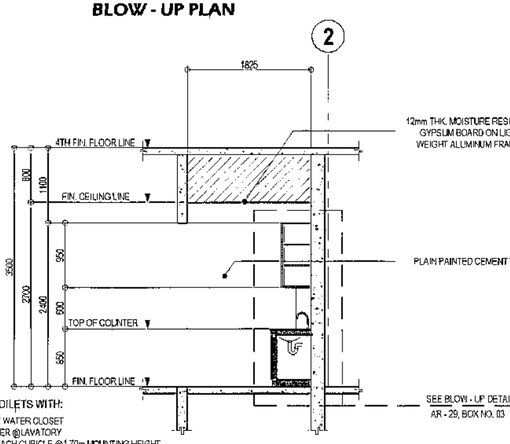
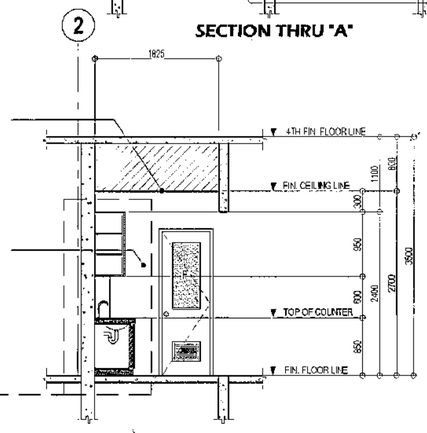


SECTION THRU "C"



SECTION THRU "D"

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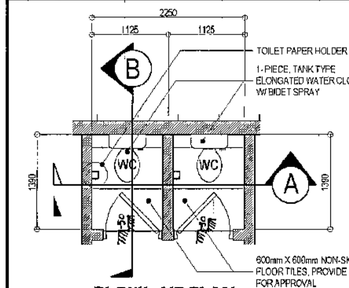
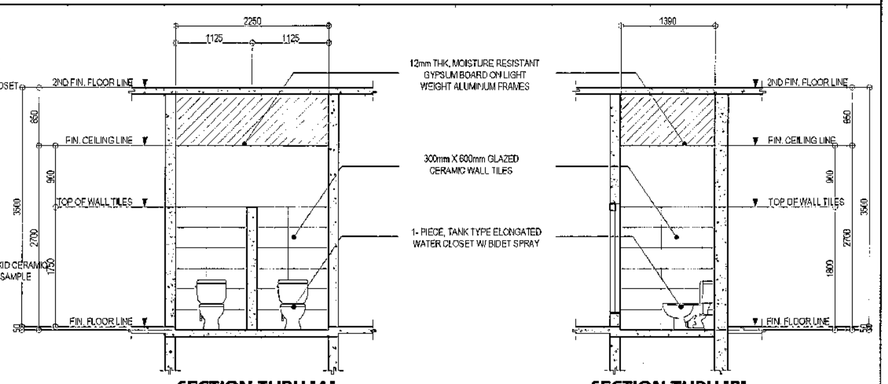
5. 19mm THK. X 150mm THK. WIDE HIGH PRESSURE PHENOLIC LAMINATED LEDGE ON EACH CUBICLE ABOVE WATER CLOSETS & ABOVE URINALS

1 PANTRY & TOILET



BLOW - UP PLAN



SECTION THRU "A"

SECTION THRU "B"

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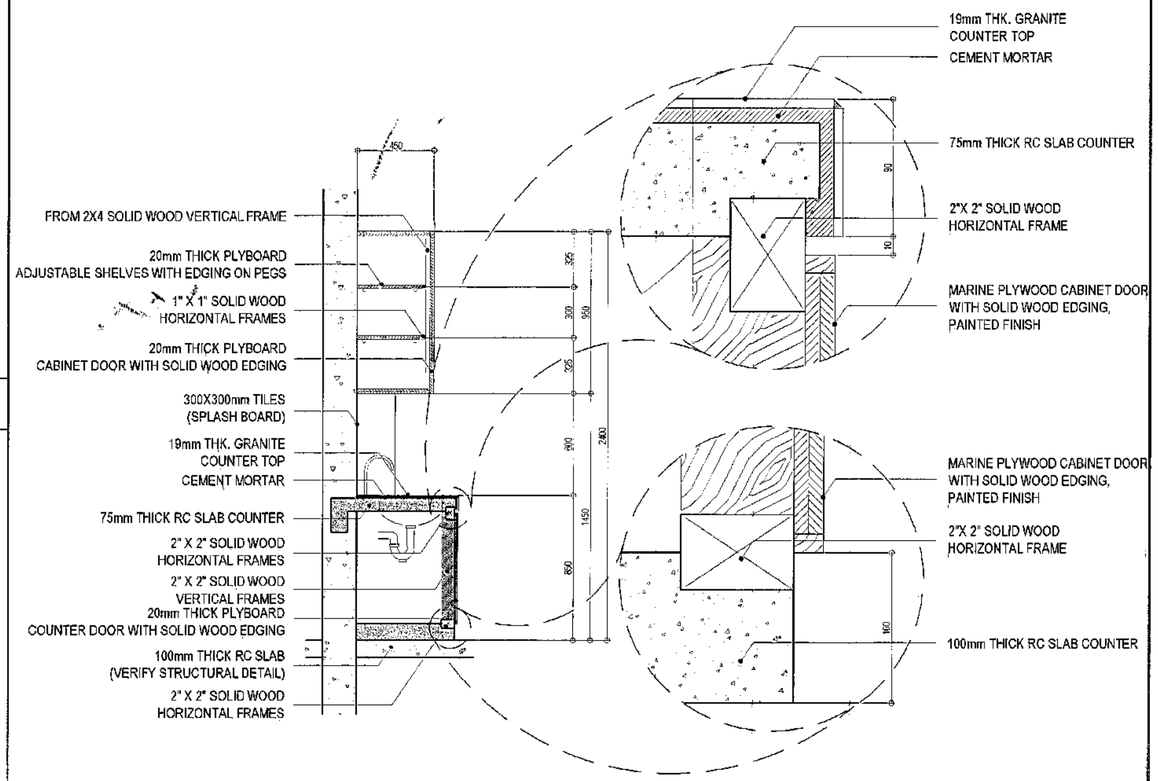
2 TOILET DETAIL (GROUND FLOOR)



3 BLOW - UP DETAIL

SCALE 1:50 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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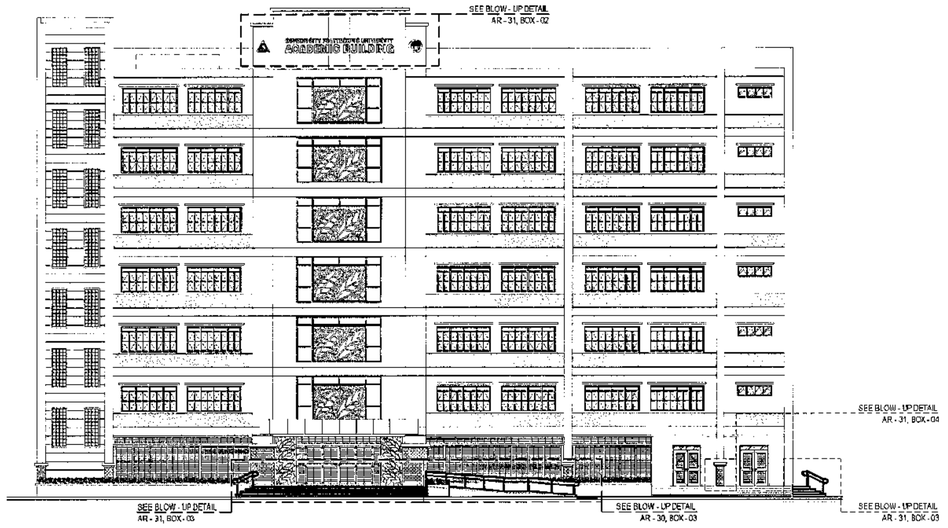
RECOMMENDING APPROVAL
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT
Engr. ISAGANI R. VERZOSA Jr.
OIC, CITY ENGINEER

APPROVED BY:
HON. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN [7] STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

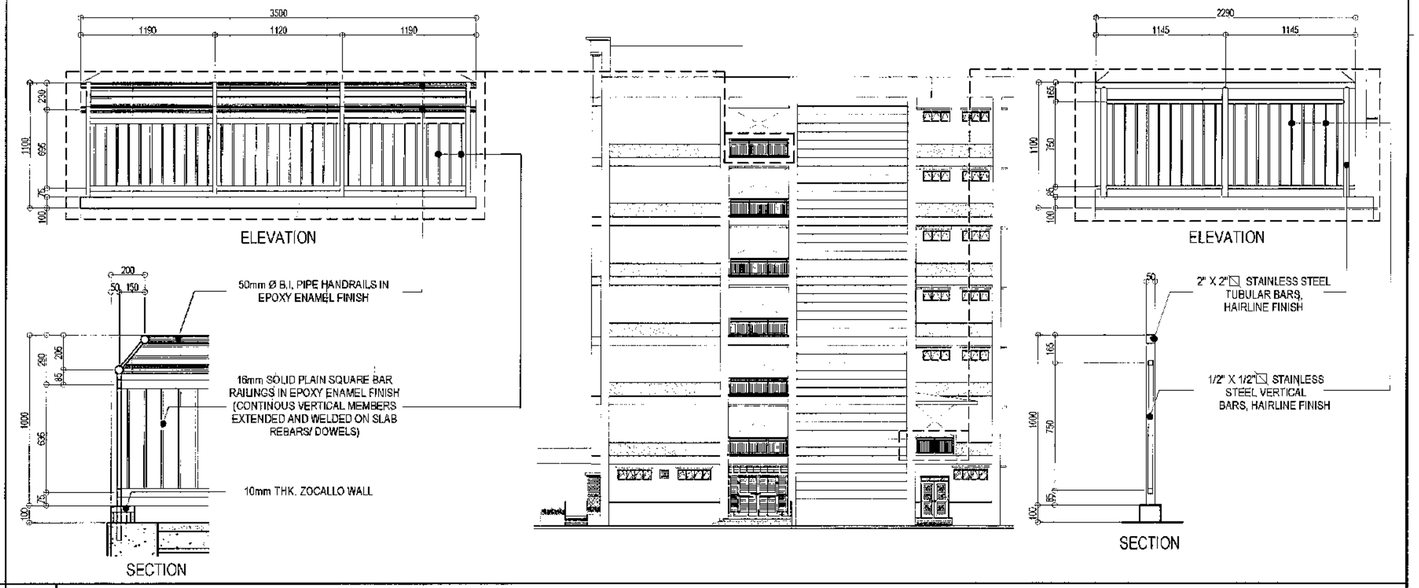
SHEET CONTENTS :

PROJECT NO.:	SHEET NO.:
DATE: November 2020	**AR-29**
DRAWN BY: Ar. R.M.E/ A.A.V	
DESIGNED BY: Ar. M.B.Ventura	
CHECKED BY: Ar. R.G.Resurreccion	



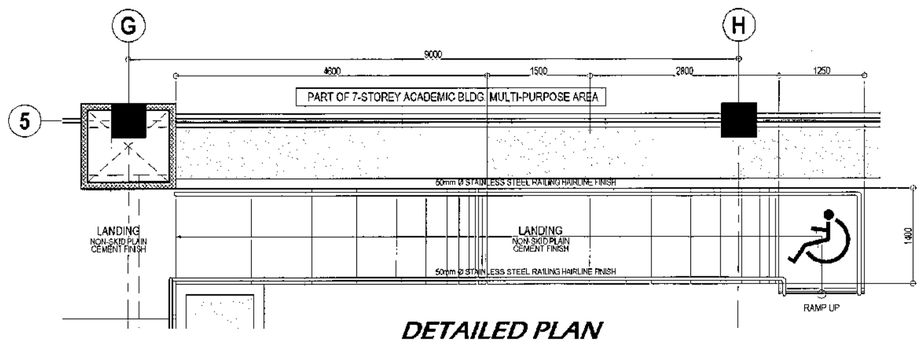
1 BLOW - UP FACADE DETAIL

SCALE 1:200 METERS

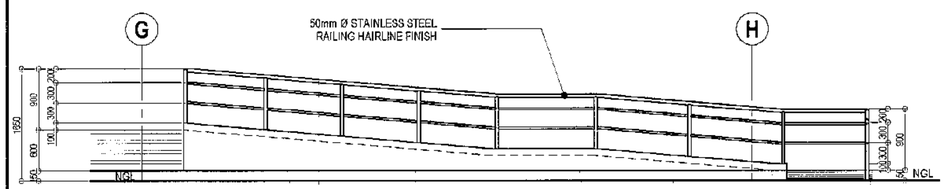


2 DETAIL OF RAILING

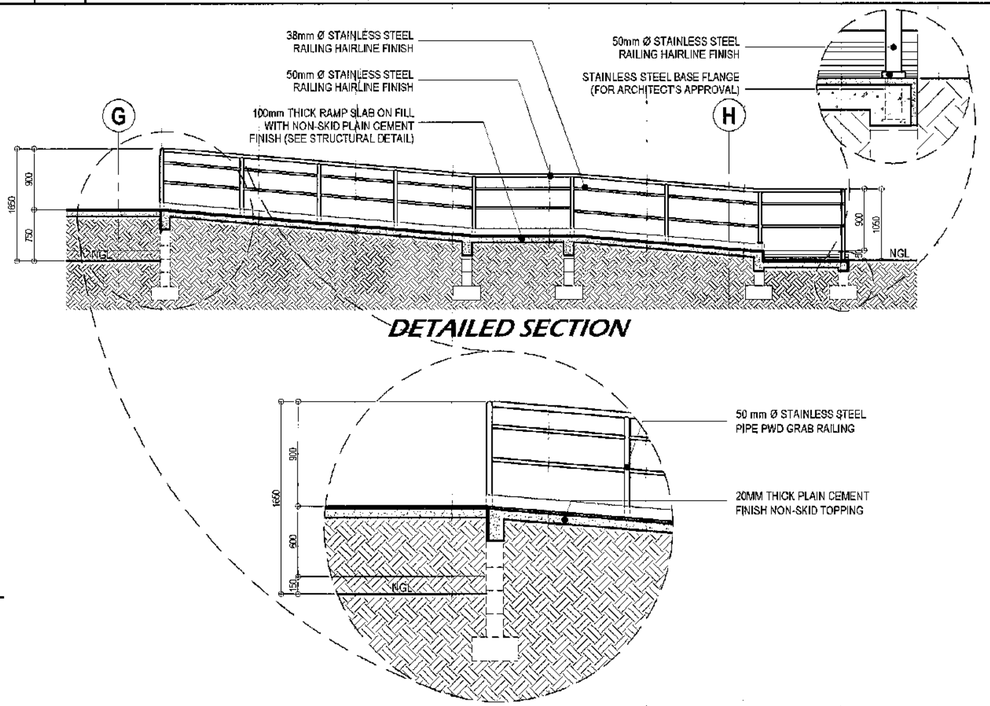
SCALE 1:200 METERS



DETAILED PLAN



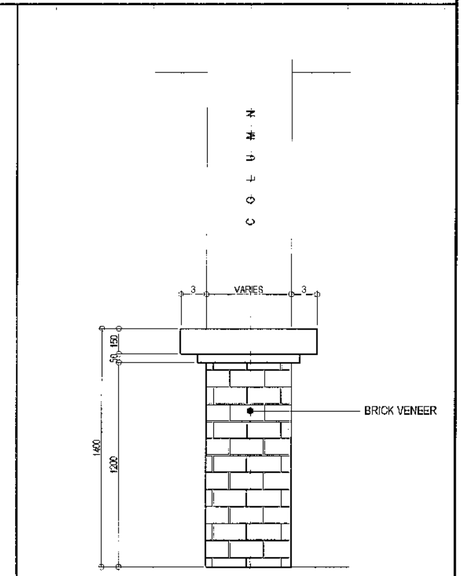
DETAILED ELEVATION



DETAILED SECTION

3 RAMP DETAILS

SCALE 1:50 METERS



4 BRICK VENEER DETAIL

SCALE 1:20 METERS

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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CITY ARCHITECT
Engr. ISAGANI R. VERZOSA Jr.
OIC, CITY ENGINEER

APPROVED BY:
HON. JOSEFINA G. BELMONTE
MAYOR

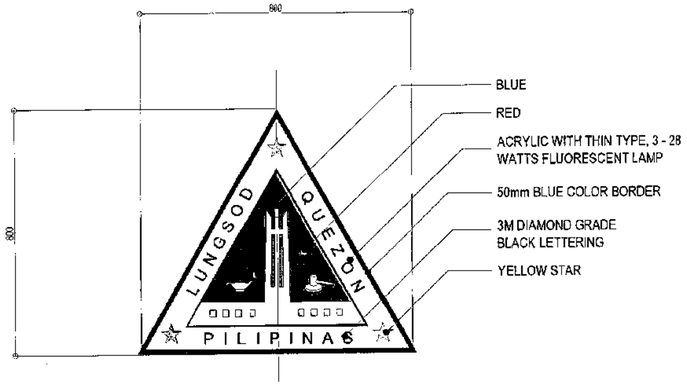
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN [7] STOREY ACADEMIC BUILDING @ QCU: MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

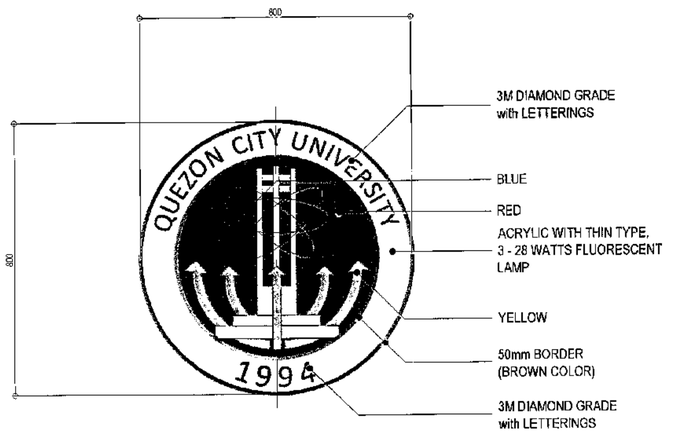
SHEET CONTENTS:
BLOW - UP DETAILS

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. R.M.E/ A.A.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

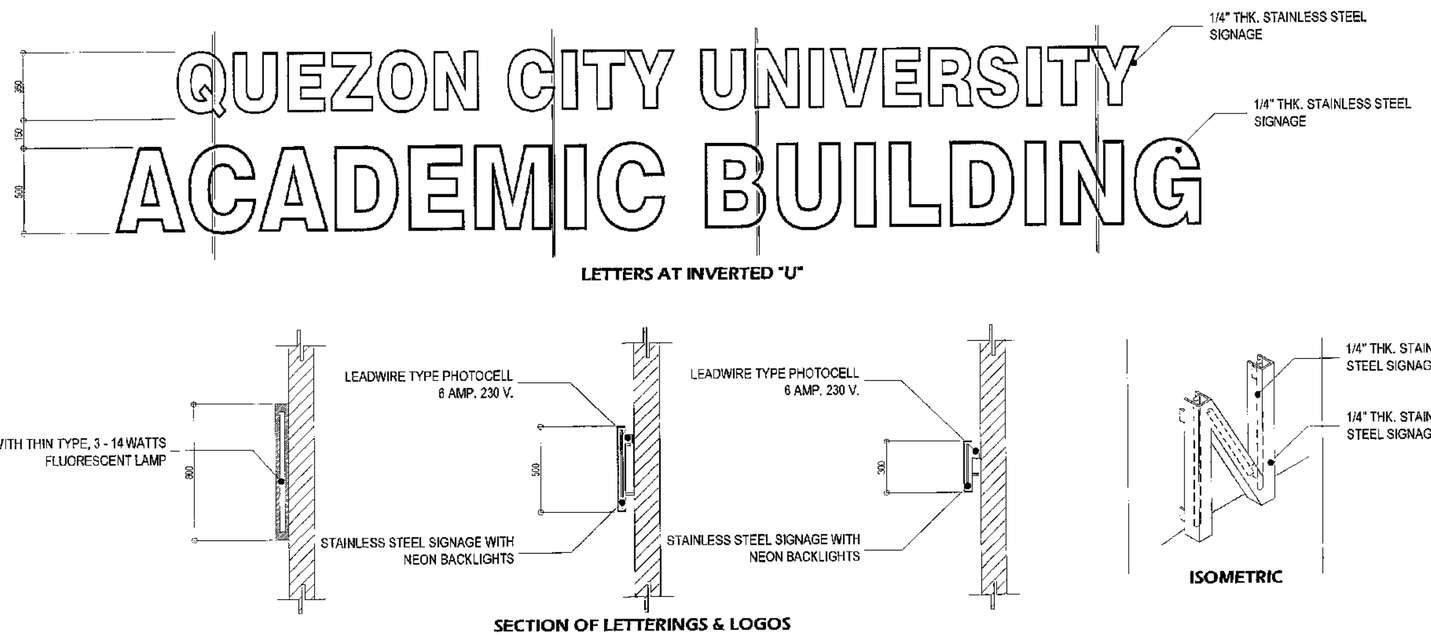
SHEET NO.: **AR-30**





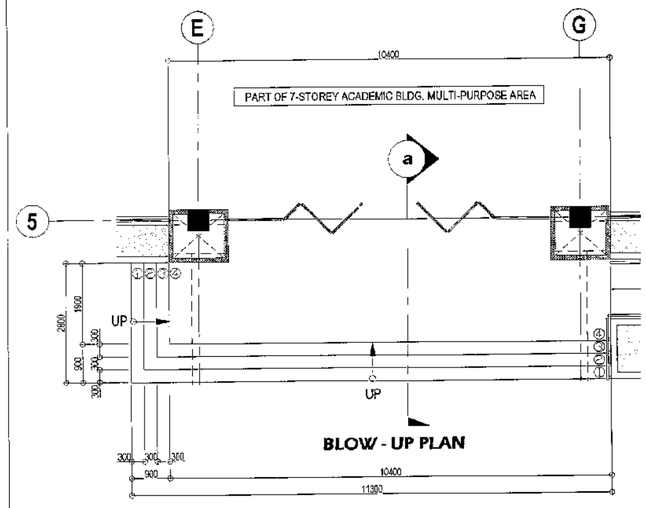
1 DETAIL OF LOGO

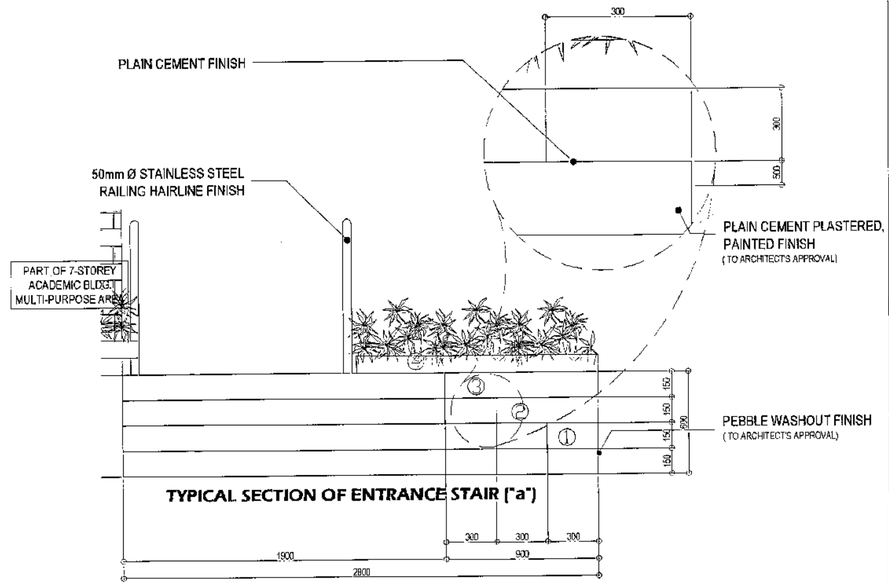
NTS



2 BUILDING SIGNAGE DETAIL

NTS





3 BLOW - UP DETAIL OF MAIN ENTRANCE STAIR

SCALE 1:20 METERS

Republika ng Pilipinas
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CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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PROJECT TITLE:
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LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
BLOW - UP DETAILS

PROJECT NO.:	
DATE	November 2020
DRAWN BY	Ar. R.M.E/ A.A.V.
DESIGNED BY	Ar. M.B.Ventura
CHECKED BY	Ar. R.G.Resurreccion

SHEET NO.: **AR-31**

STRUCTURAL NOTES & SPECIFICATIONS

1 STRUCTURAL STEEL

ALL STRUCTURAL MILL SECTIONS, BUILT UP PLATE SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC'S LATEST "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

- DESIGN LOADS FOR BUILDINGS SHALL MEET THE REQUIRED STRUCTURAL DESIGN CRITERIA.
- STEEL PLATES, SHAPES, BARS AND METAL FABRICATIONS: ASTM A-36.
- STRUCTURAL BOLTS AND NUTS:
  ASTM A-325, GALVANIZED, 7/8 Ø AND BELOW.
  A-490 1" Ø AND ABOVE.
- **ELECTRODES FOR WELDING: ASTM A233 E_70XX SERIES; COMPLY WITH AWS D1.1 CODE REQUIREMENTS.**
- **FLAME CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH LATEST "STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.**
- **ALL BUTT WELDS SHALL BE FULL PENETRATION WELDS AND SHALL BE PROPERLY BACK-CHIPPED OR GOUGED. BACK-UP PLATES SHALL BE PROVIDED AS REQUIRED.**
- APPLY TT-P-645 SHOP PAINT FOR ALL FABRICATIONS.
- SHOP PAINTING FOR STRUCTURAL STEEL SHALL BE RUST INHIBITIVE PRIMER WITH MINIMUM D.F.T. OF 2.0 MILS.
- TOUCH-UP PAINTING: APPLY PAINT TO EXPOSED AREAS IN MANNER SATISFACTORY TO THE ENGINEER WITH SAME MATERIAL AS SHOP PAINT.
- COMPLY WITH AISC CODE AND SPECIFICATIONS FOR BEARING, ADEQUACY OF TEMPORARY CONNECTIONS AND ALIGNMENT.
- CONTRACTOR SHALL FURNISH COMPLETE ERECTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING COMPONENTS. THESE DRAWINGS WILL SHOW ANCHOR BOLT SETTING, PRIMARY SECONDARY, AND ROOF FRAMING, AND NECESSARY INSTALLATION DETAILS. SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.
- APPLICATION OF FIRE PROOFING SYSTEM IS REQUIRED FOR ALL STRUCTURAL STEEL MEMBERS. PROVIDE 2 HOUR MINIMUM FIRE RATING. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR ADDITIONAL FIRE PROOFING REQUIREMENTS.

SCHEDULE OF REINFORCING BARS (PNS - 49)

DIAMETER OF BARS	GRADE (fy)
Ø12 AND SMALLER	275 (275mpa)
Ø16 TO Ø25	415(415mpa)

- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- ALL GRADE 60 REINFORCING STEEL SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM GRADE 40 REINF. STEEL IF CONCURRENTLY ON SITE.
- IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. SPLICES SHALL BE SECURELY WIRED TOGETHER. STAGGER SPLICES AT LEAST 600mm. WHENEVER POSSIBLE IN BEAM BEAMS AND SLABS SPLICE TOP BARS AT MIDSPAN AND BOTTOM BAR NEAR SUPPORT. SPLICE OF REINFORCEMENT SHALL BE MADE ONLY AS REQUIRED OR PERMITTED ON DESIGN DRAWINGS OR AS ALLOWED BY THE ACI CODE OR AS AUTHORIZED BY THE ENGINEER.
- BARS NOTED AS "CONT." SHALL HAVE A MINIMUM SPLICE LENGTH OF 42 BAR DIA. BUT BAR DIAMETERS BUT NOT LESS THAN 600mm", UNLESS OTHERWISE NOTED.
- REINFORCING SHALL BE SPLICED ONLY AS INDICATED ON THE DRAWINGS.
- MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE :

ITEM	COVER
CONCRETE CAST AGAINST EARTH	75 mm
EXPOSED TO EXTERIOR OF WEATHER	38 mm
FORMED SURFACE BELOW GRADE	50 mm
SLAB ON GRADE	50 mm
COLUMNS & BEAMS	38 mm
STRUCTURAL SLABS TOP & BOT.(INTERIOR)	25 mm

- ANY WELDING TO BE PERFORMED MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGR.
- WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-79 "AWS STRUCTURAL WELDING CODE - REINFORCING STEEL" OF THE AMERICAN WELDING SOCIETY REINFORCING STEEL WHICH IS WELDED SHALL CONFORM TO ASTM A 706. REINFORCING STEEL NOT CONFORMING TO ASTM A 706 MAY BE USED IF MATERIAL PROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS D1.4-79.
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185. WELDE WIRE FABRIC IN SUSPENDED SLABS SHALL HAVE FY = 60 KSI. LAP 152 MM. MINIMUM OR ONE FULL MESS, WHICHEVER IS GREATER FOR SLABS ON GRADE.
- SHOP DRAWINGS : THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL PREPARED IN ACCORDANCE WITH ACI 315. INDICATE BENDING DIAGRAM, ASSEMBLY DIAGRAM, SPLICING AND LABS OF RODS AND SHAPES DIMENSIONS AND DETAILS FOR FOR REINFORCING BARS.
- ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.

1 REINFORCING STEEL

- FORMS SHALL BE PROVIDED FOR ALL CONCRETE INDICATED UNLESS SPECIFIED OTHERWISE. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND MAINTAINED SO AS TO INSURE COMPLETED WORK WITHIN THE ALLOWABLE TOLERANCES SPECIFIED AND SHALL BE MORTAR TIGHT.
- FORMS AND THEIR SUPPORTS SHALL BE DESIGNED SO AS NOT TO DAMAGE PREVIOUSLY PLACED STRUCTURE.
- NO CONSTRUCTION LOAD SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM ANY PART OF STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH THE REMAINING FORMING AND SHORING SYSTEM HAS STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND THE ADDITIONAL IMPOSED LOADS.
- FORMS SHALL BE REMOVED IN SUCH MANNER AS NOT TO IMPAIR SAFETY AND SERVICE ABILITY OF THE STRUCTURE.

SCHEDULE OF STRIPPING OF FORMS AND SHORES

ITEMS	TIME
FOUNDATION	24 HRS
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	14 DAYS
COLUMN / WALLS	12 DAYS
BEAMS	14 DAYS

3 FORMWORKS

SCHEDULE OF STRUCTURAL CONCRETE
28-DAY COMPRESSIVE STRENGTH AND TYPES

LOCATION	STRUCTURAL ELEMENTS	28-DAY COMPRESSIVE STRENGTH	DENSITY	MAX SLUMP
ALL FLOORS	SUSPENDED SLABS SHEAR WALL ELEVATOR	4000 psi (UNLESS NOTED OTHERWISE)	150 PCF	4"(100mm)
GROUND	SLAB ON GRADE/ STAIRS	3000 psi	150 PCF	4"(100mm)

- INFORM ARCHITECT/ENGINEERS OF OTHER MISCELLANEOUS CONCRETE STRUCTURAL ELEMENTS NOT SHOWN ABOVE TO DETERMINE THEIR RESPECTIVE COMPRESSIVE STRENGTHS

SCHEDULE OF CONCRETE AGGREGATES

ITEMS	AGGREGATE SIZE
SLABS, BEAMS, COLUMNS	3/4" (19 mm)
CURBS & MASS CONCRETE	1" (25 mm)

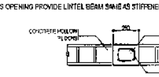
- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION CODE OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-91).
- LOCATION OF ALL CONTRUCTION OR COLD JOINTS MUST BE APPROVED BY THE ENGINNEER / ARCHITECT.
- PIPE OR DUCTS EXCEEDING ONE THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES BUT SHALL NOT BE EMBEDDED THEREIN.
- REINFORCING BARS, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACED BEFORE POURING CONCRETE. BAR PLACEMENT AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE RECOMMENDED ACI PRACTICE.
- ALL INSERTS, ANCHOR BOLTS, PLATES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
- IN GENERAL, THE LATEST EDITION OF (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) ACI 315, SHALL BE ADHERED TO, UNLESS SHOWN OTHERWISE.
- USE OF ADMIXTURES IS PERMITTED TO PRODUCE PROPER SLUMP AND WORKABILITY BUT SUBJECT TO THE ENGINEER'S APPROVAL. ADDITION OF WATER TO CONCRETE AT JOBSITE IS NOT ALLOWED.

4 REINFORCED CONC. NOTES

MASONRY WALLS

1. ALL MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARD & SPECIFICATIONS OF THE STRUCTURAL CODE OF THE PHILIPPINES & NATIONAL BUILDING CODE.
2. MORTAR & GROUT FOR ALL CONCRETE MASONRY SHALL CONFORM TO ASTM 270 - TYPE N & SHALL HAVE A MINIMUM OF 28 DAYS STANDARD CYL. INDEX COMPRESSIVE STRENGTH OF 17.5 MPa (2500 PSI).
3. ALL CMU SHALL BE LAID OUT WITH THE CELLS IN UNOBSTRUCTED VERTICAL CONTINUITY. ALL CELLS ESPECIALLY THOSE WITH REINFORCEMENT SHALL BE FILLED WITH MORTAR.
4. REINFORCEMENT, AS TABULATED BELOW SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE PLAN.
5. ALL MASONRY WALLS SHALL BE PROVIDED W/ STIFFENER BEAM BLOCK & STIFFENER AS REQUIRED.
   5 a. FOR HIGH WALLS & EVERY 3000 mm. & COLUMN (BOLT) AT 3000 mm ON CENTER.
   5 b. FOR DOORS & WINDOWS OPENING PROVIDE LINTEL BEAM SAME AS STIFFENER BEAM BLOCK.

STIFFENER BEAM BLOCK



STIFFENER COLUMN

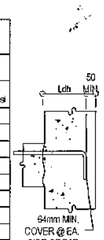
5 MASONRY WALL

- GENERAL NOTES AND TYPICAL STRUCTURAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.
- FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT FOR SIMILAR CONDITIONS. MODIFY TYPICAL DETAILS AS REQUIRED TO MEET SPECIAL CONDITIONS.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK OR DURING CONSTRUCTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTIONS.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST APPLICABLE STANDARDS OR SPECIFICATIONS. ALL WORKS SHALL CONFORM WITH THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES.
- INSPECTION-ALL CONSTRUCTION AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION, EXAMINATION AND TESTING BY THE ENGINEER/ARCHITECT. THE ENGINEER/ARCHITECT SHALL HAVE THE RIGHT TO REJECT DEFECTIVE MATERIALS AND WORKMANSHIP OR REQUIRE ITS CORRECTION.
- UNLESS SPECIFICALLY DETAILED ELSEWHERE CONTRACTOR SHALL FOLLOW TYPICAL DETAILS AS SHOWN IN THESE DRAWINGS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.
- DO NOT SCALE DRAWINGS. CALLED-OUT DIMENSIONS AND STANDARD CODE REQUIREMENTS SHALL GOVERN OVER UNSCALED DRAWINGS.
- SPECIAL NOTE: DIMENSIONS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. ARCHITECTURAL DRAWINGS SHALL BE USED TO DEFINE DETAIL CONFIGURATIONS, ELEVATIONS, OPENINGS, JOINTS, SLOPES, ETC.
- THE CONTRACTOR IS GIVEN THE OPTION TO UTILIZE ALTERNATIVE METHODS OF DESIGN AND ALTERNATIVE METHOD OF CONSTRUCTION AS DEEMED SUITABLE PROVIDE THAT SUCH OPTION IS IN CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND IS COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.

6 GENERAL NOTES

HOOK BAR DEVELOPMENT LENGTH (Ldh) SCHEDULE (INCHES)

BAR SIZE	ALL MEMBERS U.N.O.			CONCRETE WALLS AND DIAPHRAGMS		
	Fc' = 3000psi	Fc' = 4000psi	Fc' = 5000psi	Fc' = 3000psi	Fc' = 4000psi	Fc' = 5000psi
10	6	6	6	7	6	6
12	8	7	6	9	8	7
16	10	9	8	11	10	9
20	12	10	9	13	11	10
22	14	12	11	15	13	12
25	16	14	12	17	15	14
28	18	16	14	20	17	15
32	20	17	16	22	19	17
36	22	19	17	24	21	19



- THESE DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- THE DEVELOPMENT LENGTHS SPECIFIED FOR "CONCRETE WALLS & DIAPHRAGMS" ARE APPLICABLE IF THE HOOKED BAR IS WITHIN THE CONFINED CONCRETE CORE OF A BOUNDARY MEMBER.
- REFER TO SECTION FOR ADD'L. REQUIREMENTS FOR "ALL OTHER MEMBERS".

7 HOOKED BAR DEVELOPMENT LENGTH (Ld) SCHEDULE

- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- THESE BAR DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVT. LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THIS SCHEDULE UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- db INDICATES DIAMETER OF THE BAR.
- LENGTHS SHOWN UNDER CONDITION 1 SHALL BE USED WHERE ANY ONE OF THE FOLLOWING IS SATISFIED:
  A. BEAM AND COLUMN BARS WHERE "BAR SPACING≥ 4db",
  B. INNER LAYER OF SLAB OR WALL REINFORCEMENT WHERE "BAR SPACING≥ 4db",
  C. ANY REINF. WHERE "BAR COVER≥ 2db" AND "BAR SPACING≥ 4db".
- LENGTHS SHOWN UNDER CONDITION 2 SHALL BE USED WHERE "BAR COVER≤ db" OR "BAR SPACING≤ 3db".
- LENGTHS SHOWN UNDER CONDITION 3 SHALL BE USED WHERE CONDITION 1 OR 2 ARE NOT SATISFIED.
- IF "BAR SPACING≥ 6db" AND "BAR COVER≥ 2.5db" USE 80% OF LENGTH SPECIFIED IN SCHEDULE ABOVE.
- A STANDARD HOOK SHALL BE PROVIDED WHERE Ld IS UNATTAINABLE DUE TO SPACE RESTRICTIONS (REFER TO SCHEDULE FOR Ldh).

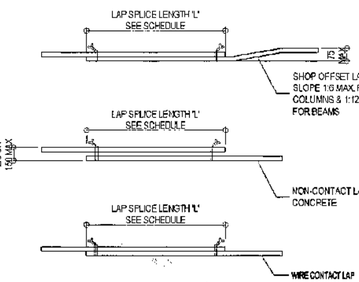
8 BAR DEVELOPMENT LENGTH (Ld) SCHEDULE

CLASS "A" LAP SPLICE SCHEDULE (L) (INCHES)

MEMBER TYPE	BAR SIZES	Fc' = 3000 psi						Fc' = 4000 psi						Fc' = 5000 psi					
		CONDITION 1		CONDITION 2		CONDITION 3		CONDITION 1		CONDITION 2		CONDITION 3		CONDITION 1		CONDITION 2		CONDITION 3	
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
ALL MEMBERS U.N.O.	10	17	13	17	13	17	13	14	12	14	12	14	12	13	12	13	12	13	12
	12	22	17	23	18	22	17	19	15	20	15	19	15	17	13	18	14	17	13
	16	27	21	35	27	27	21	24	18	31	24	24	18	21	16	28	21	21	16
	20	33	26	51	39	36	28	28	22	44	34	31	24	25	20	39	30	28	21
	22	38	29	61	69	48	37	33	25	60	46	42	32	29	23	54	41	38	29
	25	45	35	90	69	63	48	39	30	78	60	55	42	35	27	70	54	49	38
	28	57	44	114	88	80	62	50	38	99	76	69	54	45	34	89	68	62	48
	32	73	56	145	111	101	78	63	49	126	97	88	68	56	43	112	86	79	61
	36	89	69	178	137	125	96	77	60	154	119	108	83	69	53	138	108	97	75
ALL CONCRETE WALLS AND DIAPHRAGMS	10	23	18	23	18	23	18	21	16	21	16	21	16	21	16	21	16	21	16
	12	30	22	30	22	30	22	26	19	26	19	26	19	23	17	23	17	23	17
	16	37	27	37	27	37	27	32	23	32	23	32	23	29	21	29	21	29	21
	20	45	32	45	32	45	32	39	28	39	28	39	28	35	25	35	25	35	25
	22	52	37	52	37	52	37	45	32	45	32	45	32	40	29	40	29	40	29
	25	59	43	59	43	59	43	52	37	52	37	52	37	46	33	46	33	46	33
	28	67	48	67	48	67	48	58	42	58	42	58	42	52	37	52	37	52	37
	32	75	54	75	54	75	54	65	47	65	47	65	47	59	42	59	42	59	42
	36	84	60	84	60	84	60	73	52	73	52	73	52	65	47	65	47	65	47

CLASS "B" LAP SPLICE SCHEDULE (L) (INCHES)

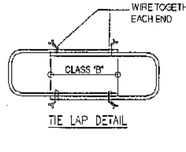
MEMBER TYPE	BAR SIZES	Fc' = 3000 psi						Fc' = 4000 psi						Fc' = 5000 psi					
		CONDITION 1		CONDITION 2		CONDITION 3		CONDITION 1		CONDITION 2		CONDITION 3		CONDITION 1		CONDITION 2		CONDITION 3	
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
ALL MEMBERS U.N.O.	10	21	17	21	17	21	17	19	16	19	16	19	16	17	16	17	16	17	16
	12	26	22	30	23	28	22	25	19	26	20	25	19	22	17	23	18	22	17
	16	35	27	45	35	35	27	31	24	40	31	31	24	27	21	36	28	27	21
	20	42	33	69	51	46	36	37	28	57	44	40	31	33	26	51	39	36	28
	22	49	38	90	69	63	37	43	33	78	60	54	42	38	29	69	54	49	38
	25	59	45	117	90	82	63	51	39	101	78	71	55	46	35	91	70	64	49
	28	74	57	148	114	104	80	65	50	129	99	90	69	58	45	115	89	81	62
	32	94	73	186	145	132	101	82	63	163	125	114	88	73	56	146	112	102	79
	36	116	89	232	178	162	125	101	77	201	154	141	108	90	69	180	138	126	97
ALL CONCRETE WALLS AND DIAPHRAGMS	10	29	21	29	21	29	21	26	20	28	20	28	20	28	20	28	20	28	20
	12	29	28	39	28	39	28	34	24	34	24	34	24	30	22	30	22	30	22
	16	48	35	48	35	48	35	42	30	42	30	42	30	38	27	38	27	38	27
	20	58	42	58	42	58	42	50	36	50	36	50	36	45	32	45	32	45	32
	22	68	48	68	48	68	48	59	42	59	42	59	42	52	38	52	38	52	38
	25	77	55	77	55	77	55	67	48	67	48	67	48	60	43	60	43	60	43
	28	87	62	87	62	87	62	75	54	75	54	75	54	67	48	67	48	67	48
	32	98	70	98	70	98	70	85	61	85	61	85	61	76	54	76	54	76	54
	36	109	78	109	78	109	78	94	67	94	67	94	67	84	60	84	60	84	60



9 REINFORCEMENT LAP SPLICE DET.

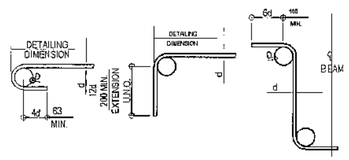
MINIMUM 2 WIRE TIES AT ALL SPLICES PROJECTING FROM FOOTINGS, TYP.

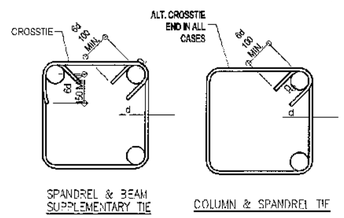
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300mm CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- THESE BAR DEVELOPMENT LENGTHS APPLY TO REGULAR WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.3 FOR LIGHTWEIGHT CONCRETE.
- ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THIS SCHEDULE UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- db INDICATES DIAMETER OF THE BAR.
- LENGTHS SHOWN UNDER CONDITION 1 SHALL BE USED WHERE ANY ONE OF THE FOLLOWING IS SATISFIED:
  A. BEAM AND COLUMN BARS WHERE "BAR SPACING≥ 4db",
  B. INNER LAYER OF SLAB OR WALL REINFORCEMENT WHERE "BAR SPACING≥ 4db",
  C. ANY REINF. WHERE "BAR COVER≥ 2db" AND "BAR SPACING≥ 4db".
- LENGTHS SHOWN UNDER CONDITION 2 SHALL BE USED WHERE "BAR COVER≤ db" OR "BAR SPACING≤ 3db".
- LENGTHS SHOWN UNDER CONDITION 3 SHALL BE USED WHERE CONDITION 1 OR 2 ARE NOT SATISFIED.
- IF "BAR SPACING≥ 6db" AND "BAR COVER≥ 2.5db" USE 80% OF LENGTH SPECIFIED IN SCHEDULE ABOVE.
- USE CLASS "B" SPLICES U.N.O. AT CLASS "B" SPLICES ONE HALF OR LESS OF THE TOTAL REINFORCEMENT. REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.
- FOR CLASS "A" SPLICES USE SAME VALUES AS PER Ld.
- SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZES BARS.
- AT CONCRETE WALLS SPLICES IN HORIZONTAL REINFORCEMENT SHALL BE STAGGERED.
- AT CONCRETE WALLS SPLICES IN TWO CURTAINS, WHERE USED, SHALL NOT OCCUR IN THE SAME LOCATION.
- ALL FOOTING DOWELS SHALL HAVE CLASS "B" LAP SPLICE AT VERTICAL WALL/COLUMN BARS (STAGGER DOWEL HEIGHTS).



D = 4d FOR Ø10 THRU Ø16 BARS
D = 6d FOR Ø20 THRU Ø25 BARS
D = 8d FOR Ø28 THRU Ø36 BARS

STANDARD HOOK DETAILS





10 BAR BENDING DETAIL

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SP CIVIC CENTER - D (BRGY. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
DRAWINGS AND SPECIFICATIONS ONLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR REUSE THE REPETITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.

RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

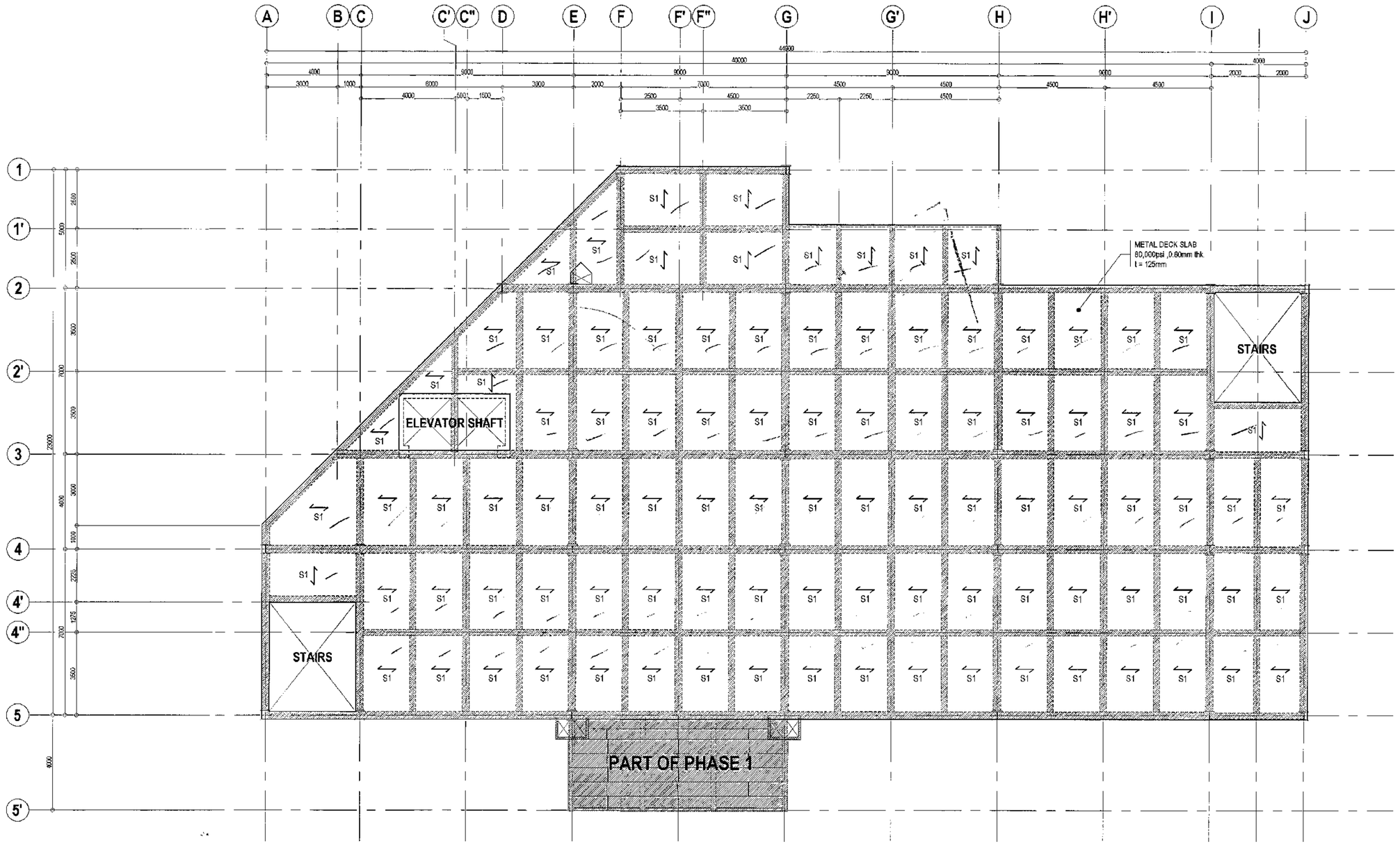
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
GENERAL NOTES

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. J.L.P.
DESIGNED BY	Engr. R.E.Dabalos Jr.
CHECKED BY	Engr. R.E.Dabalos Jr.

SHEET NO.: **ST-01**



NOTES:

1. COLUMNS & BEAMS WERE INCLUDED IN PHASE 1.
2. FOR WALL LAY-OUT PLS. SEE ARCH'L. PLAN.
3. FOR INTERIOR WALL USE 4" CHB.
4. FOR EXTERIOR WALL USE 6" CHB.
6. DROP THE SLAB OF HALLWAY BY 25mm
7. DROP THE SLAB OF TOILET BY 50mm

1 SECOND FLOOR FRAMING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

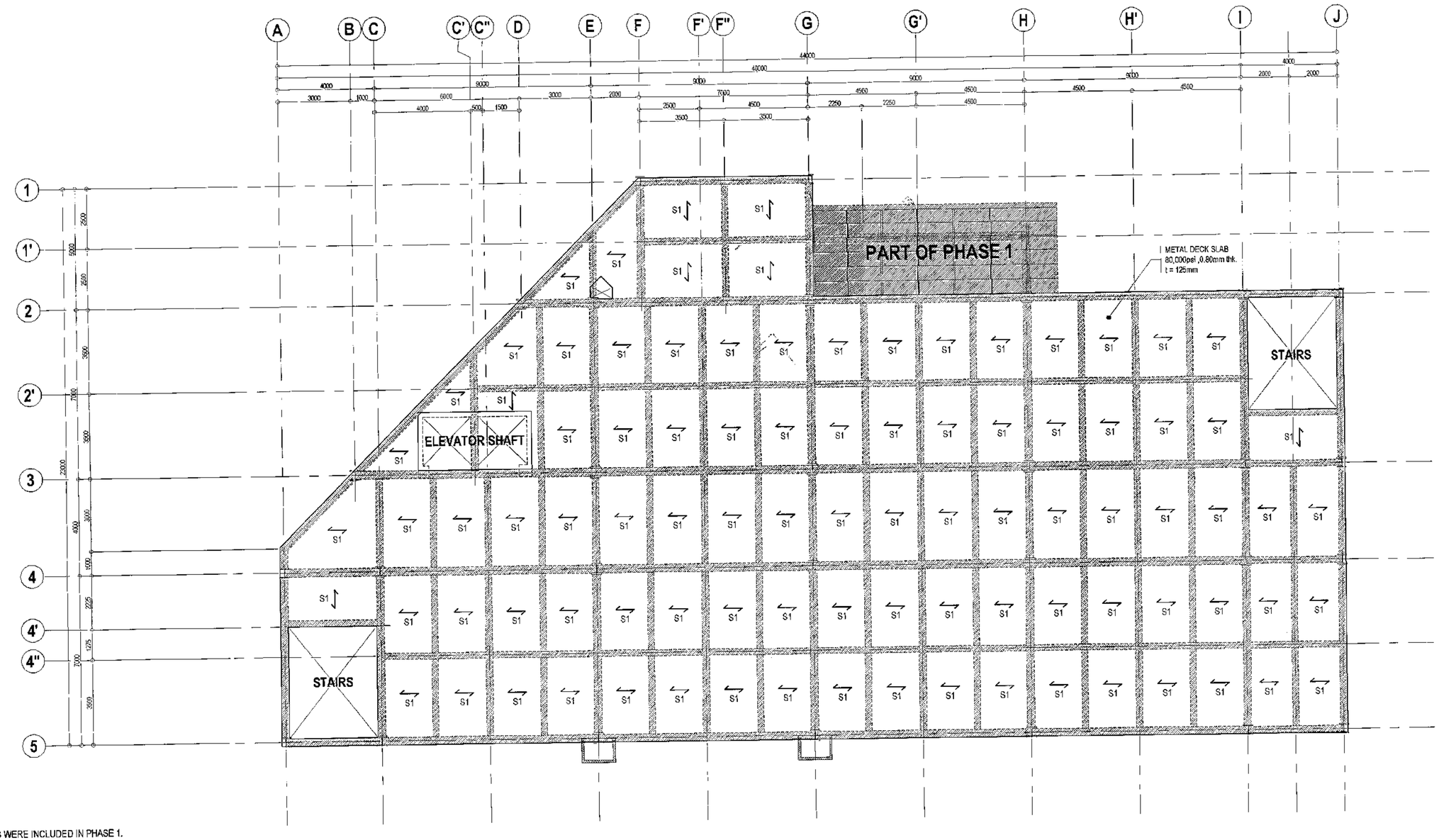
SECOND FLOOR FRAMING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	AL.J.L.P.
DESIGNED BY	Engr. R.E.Debalucos Jr.
CHECKED BY	Engr. R.E.Debalucos Jr.

SHEET NO.:

ST-02



NOTES:

1. COLUMNS & BEAMS WERE INCLUDED IN PHASE 1.
2. FOR WALL LAY-OUT PLS. SEE ARCH'L. PLAN.
3. FOR INTERIOR WALL USE 4" CHB.
4. FOR EXTERIOR WALL USE 6" CHB.
6. DROP THE SLAB OF HALLWAY BY 25mm
7. DROP THE SLAB OF TOILET BY 50mm

SCALE 1:100 METERS

1 THIRD FLOOR FRAMING PLAN

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

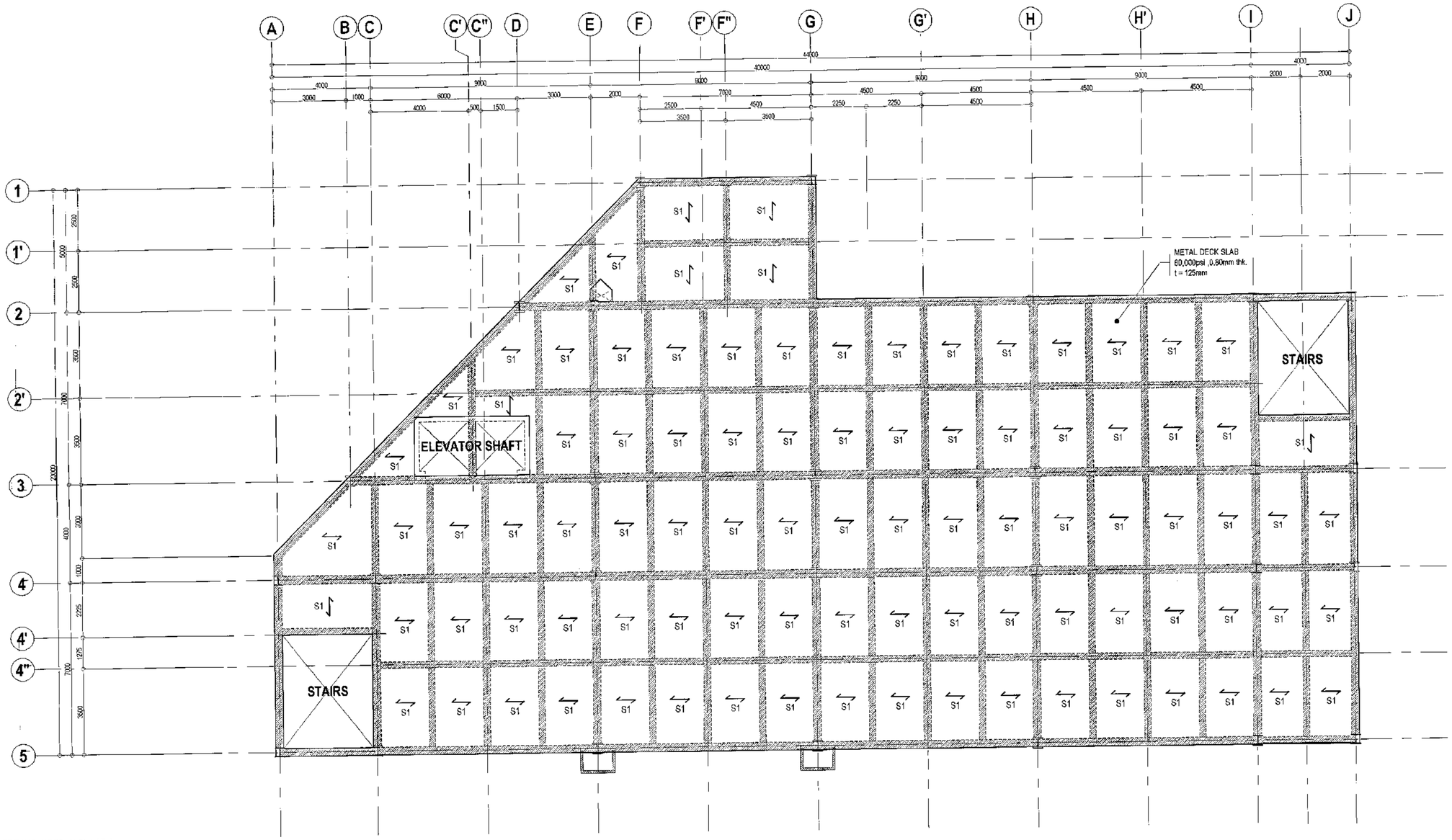
THIRD FLOOR FRAMING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. J.L.P.
DESIGNED BY	Engr. R.E.Detalicos Jr.
CHECKED BY	Engr. R.E.Detalicos Jr.

SHEET NO.:

ST-03



NOTES:

1. COLUMNS & BEAMS WERE INCLUDED IN PHASE 1.
2. FOR WALL LAY-OUT PLS. SEE ARCH'L. PLAN.
3. FOR INTERIOR WALL USE 4" CHB.
4. FOR EXTERIOR WALL USE 6" CHB.
6. DROP THE SLAB OF HALLWAY BY 25mm
7. DROP THE SLAB OF TOILET BY 50mm

SCALE 1:100 METERS

1 FOURTH FLOOR FRAMING PLAN

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

DRAWINGS AND SPECIFICATIONS ONLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXISTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF ANY POST OTHER PROJECTS OR SUBDIVISIONS, WHETHER EXECUTED PARTLY OR IN WHOLE.

RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

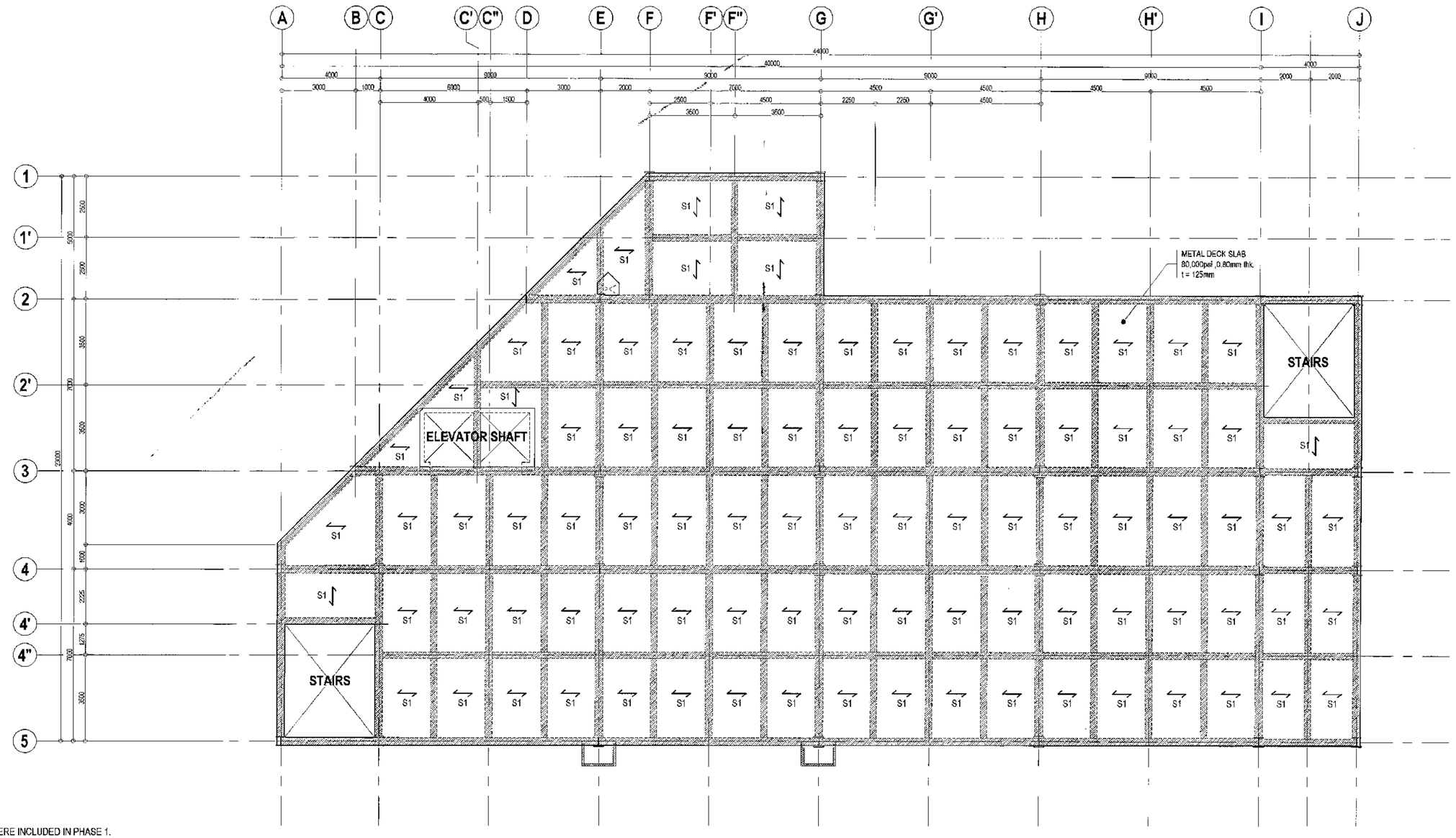
FOURTH FLOOR FRAMING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. J.L.F.
DESIGNED BY	Engr. R.E. Debalicos Jr.
CHECKED BY	Engr. R.E. Debalicos Jr.

SHEET NO.:

ST-04



NOTES:

1. COLUMNS & BEAMS WERE INCLUDED IN PHASE 1.
2. FOR WALL LAY-OUT PLS. SEE ARCH'L. PLAN.
3. FOR INTERIOR WALL USE 4" CHB.
4. FOR EXTERIOR WALL USE 6" CHB.
6. DROP THE SLAB OF HALLWAY BY 25mm
7. DROP THE SLAB OF TOILET BY 50mm

1 FIFTH FLOOR FRAMING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY-ARCHITECT-DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU) MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

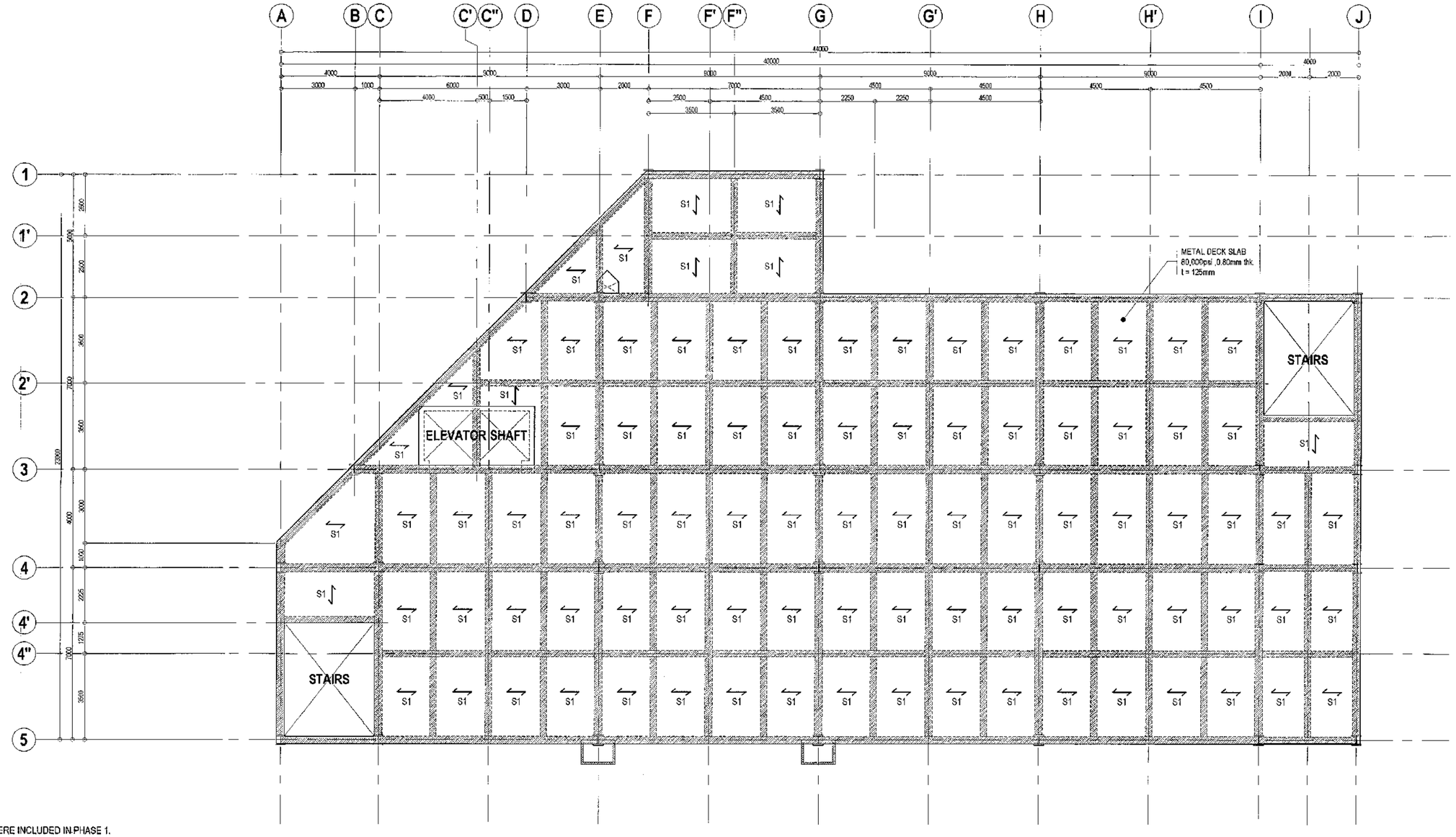
SHEET CONTENTS :

FIFTH FLOOR FRAMING PLAN

PROJECT NO.:	
DATE	November 2020
DRAWN BY	Arl J.LP.
DESIGNED BY	Engr. R.E.Debalacos Jr.
CHECKED BY	Engr. R.E.Debalacos Jr.

SHEET NO.:

ST-05



NOTES:

1. COLUMNS & BEAMS WERE INCLUDED IN PHASE 1.
2. FOR WALL LAY-OUT PLS. SEE ARCH'L. PLAN.
3. FOR INTERIOR WALL USE 4" CHB.
4. FOR EXTERIOR WALL USE 6" CHB.
6. DROP THE SLAB OF HALLWAY BY 25mm
7. DROP THE SLAB OF TOILET BY 50mm

1 SIXTH FLOOR FRAMING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

O.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU; MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

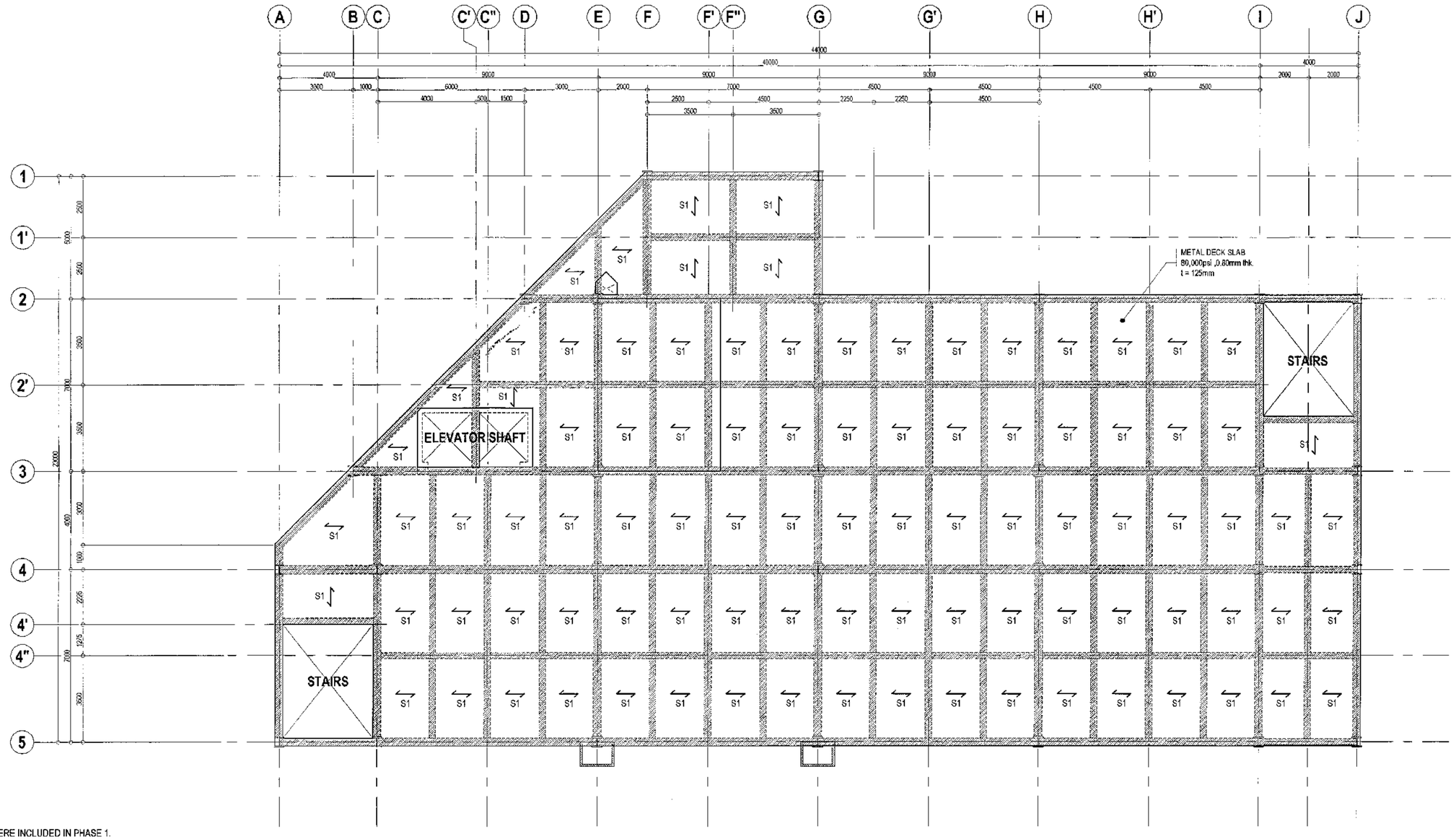
SIXTH FLOOR FRAMING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. J.L.P.
DESIGNED BY	Engr. R.E.Dellalocos Jr.
CHECKED BY	Engr. R.E.Dellalocos Jr.

SHEET NO.:

ST-06



NOTES:

1. COLUMNS & BEAMS WERE INCLUDED IN PHASE 1.
2. FOR WALL LAY-OUT PLS. SEE ARCH'L. PLAN.
3. FOR INTERIOR WALL USE 4" CHB.
4. FOR EXTERIOR WALL USE 6" CHB.
6. DROP THE SLAB OF HALLWAY BY 25mm
7. DROP THE SLAB OF TOILET & RAINWATER COLLECTOR ROOM BY 50mm

1 SEVENTH FLOOR FRAMING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. 84g), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

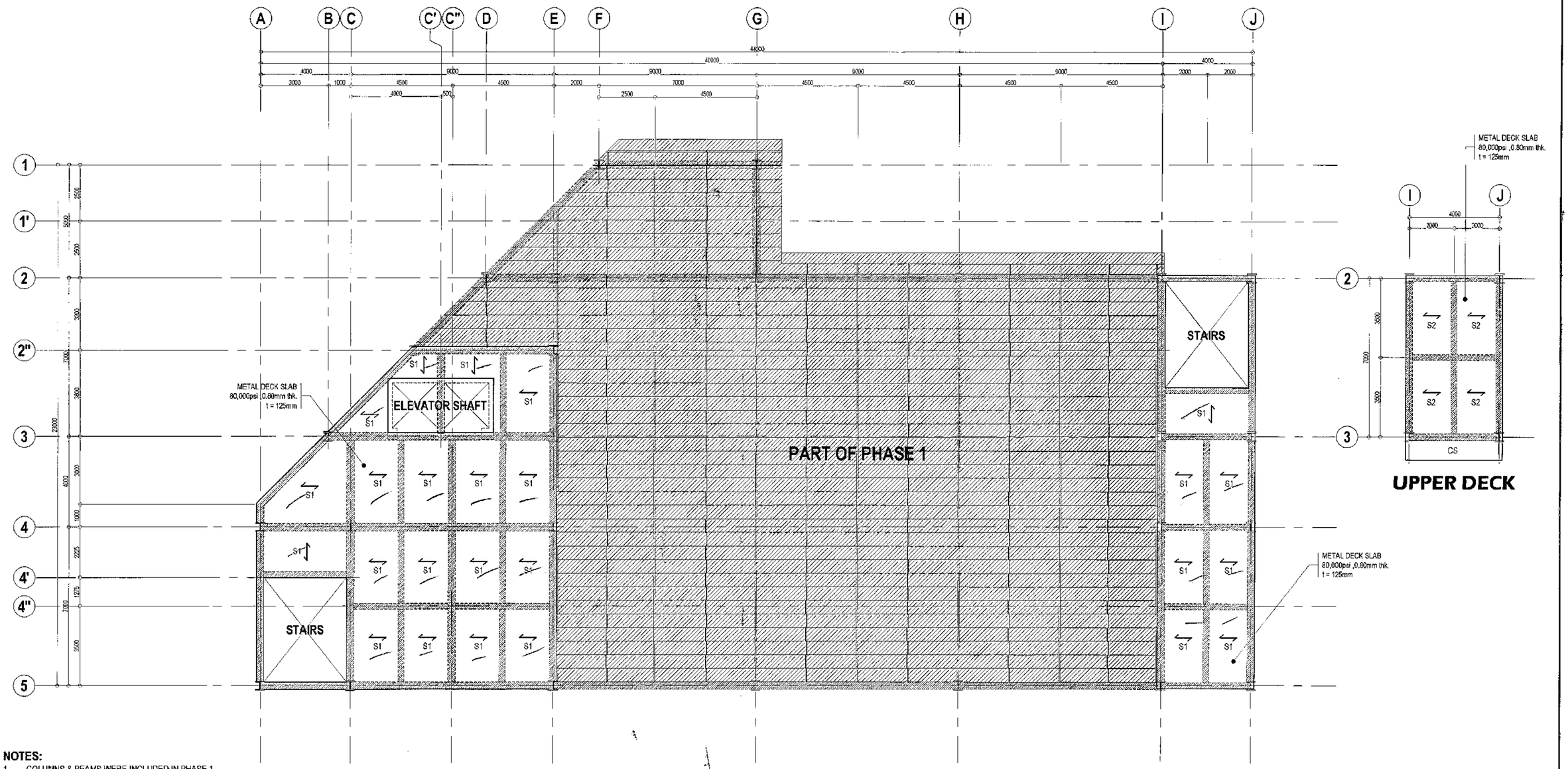
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SEVENTH FLOOR FRAMING PLAN

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar.J.L.P.
DESIGNED BY	Engr. R.E.Dabalocos Jr.
CHECKED BY	Engr. R.E.Dabalocos Jr.

SHEET NO.:
ST-07



NOTES:

1. COLUMNS & BEAMS WERE INCLUDED IN PHASE 1.
2. TRUSSES WERE INCLUDED IN PHASE 1.
3. FOR WALL LAY-OUT PLS. SEE ARCH'L. PLAN.
4. FOR INTERIOR WALL USE 4" CHB.
5. FOR EXTERIOR WALL USE 6" CHB.
6. DROP THE SLAB OF DECK BY 25mm

1 LOWER DECK FLOOR FRAMING PLAN

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT
Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR

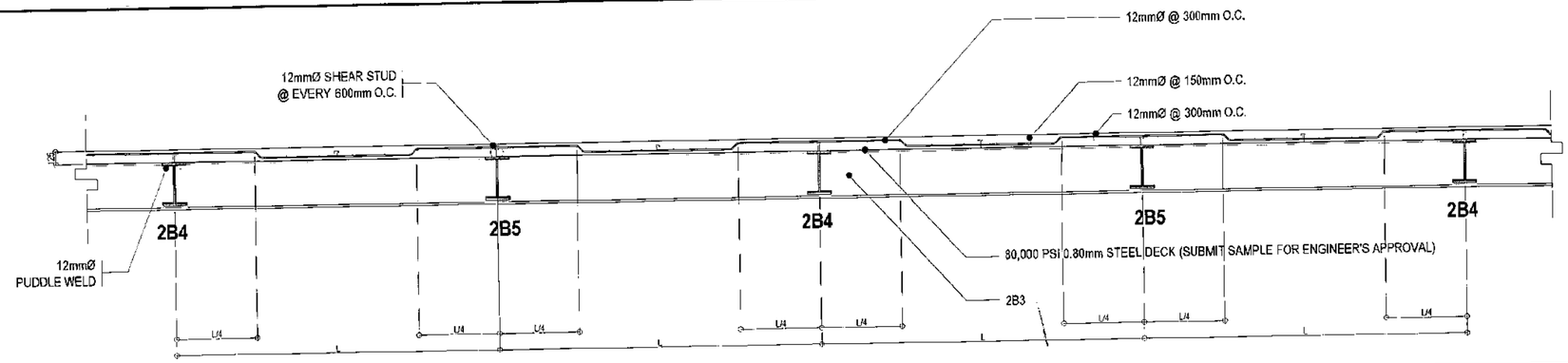
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
DECK FLOOR FRAMING PLAN

PROJECT NO.:

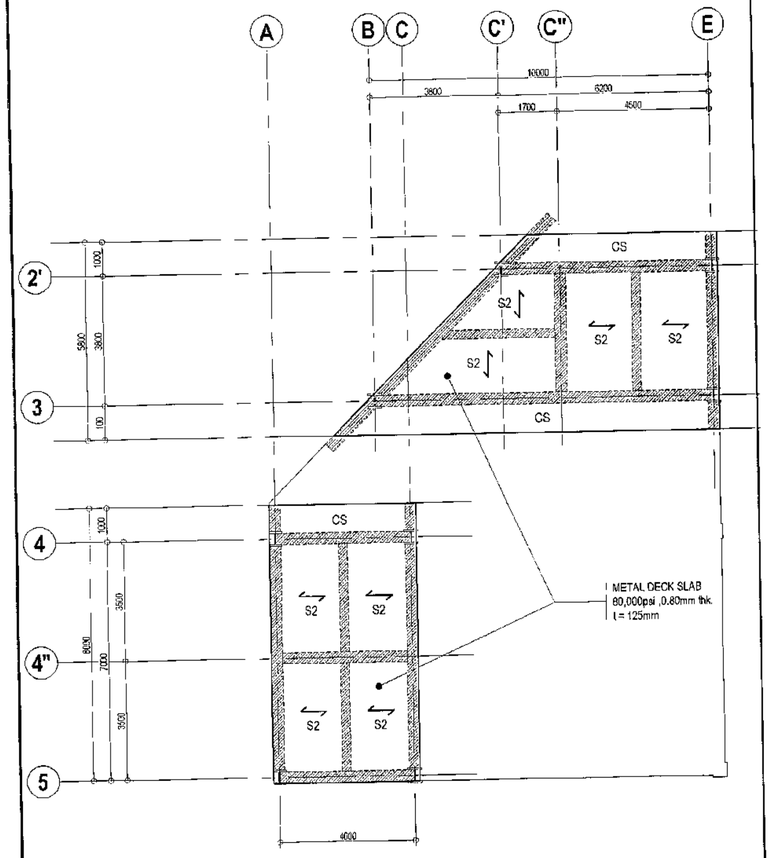
DATE	November 2020
DRAWN BY	Ar.J.L.P.
DESIGNED BY	Engr. R.E.Debalocos Jr.
CHECKED BY	Engr. R.E.Debalocos Jr.

SHEET NO.: **ST-08**



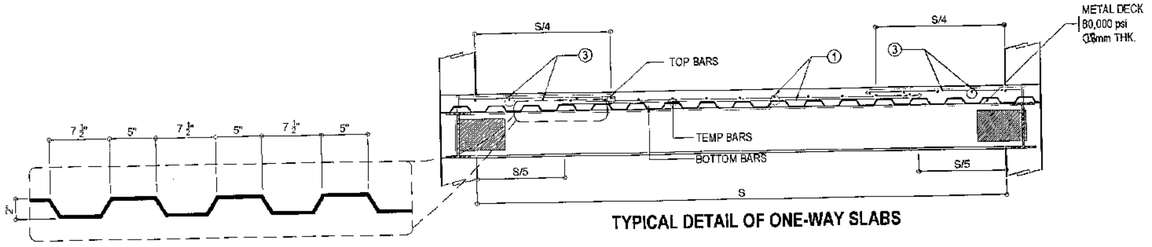
NOT TO SCALE

1 DETAIL OF SUSPENDED METAL DECK



2 UPPER DECK FRAMING PLAN

SCALE 1:100 METERS



TYPICAL DETAIL OF ONE-WAY SLABS

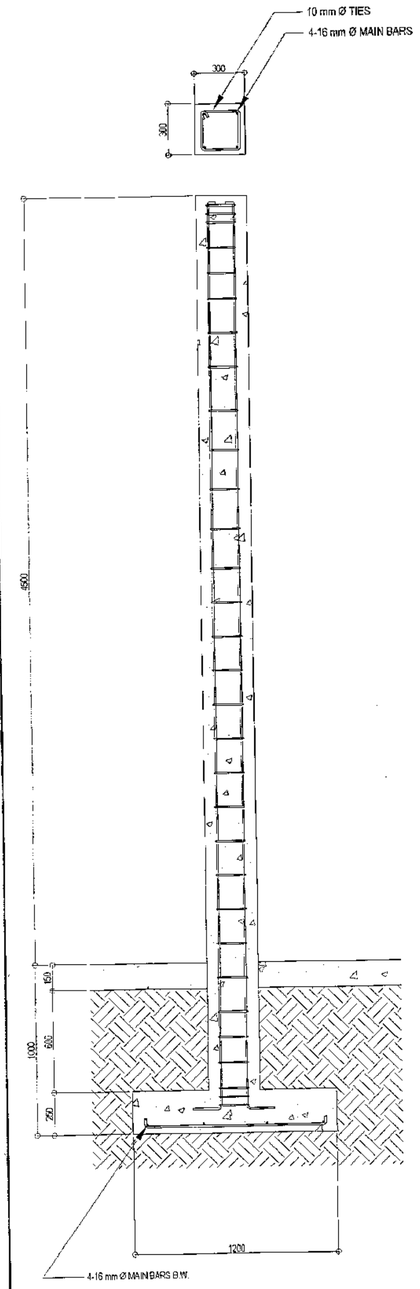
METAL DECK BLOW-UP DETAIL

3 DETAIL & SCHEDULE OF SLAB

NOT TO SCALE

MARK	t	REINFORCEMENT		SHORT SPAN				LONG SPAN				REMARK
		MAIN BARS	TEMP.	TOP BARS		BOT. BARS		TOP BARS		BOT. BARS		
				4	3	1	2	4	3	1	2	
S-1	125	10	10	—	150	150	—	—	150	150	—	ONE-WAY SLAB
S-2	100	10	10	—	150	150	—	—	150	150	—	ONE-WAY SLAB
CS	100	10	10	150	150	300	300	150	150	300	300	CANTILEVER SLAB

fc' = 4,000 psi



fc = 3,000 psi

4 SERVICE ENTRANCE DETAIL

SCALE 1:20 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

Q.C.

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

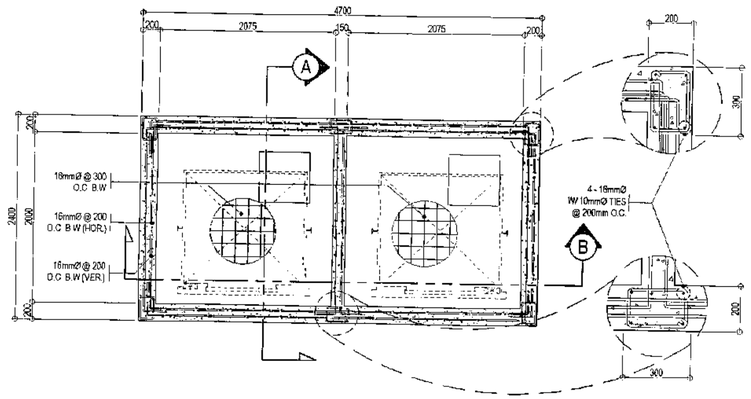
DETAIL OF SUSPENDED METAL DECK
UPPER DECK FRAMING PLAN
DETAIL & SCHEDULE OF SLAB
SERVICE ENTRANCE DETAIL

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. J.L.B.
DESIGNED BY	Engr. R.E. Detalomos Jr.
CHECKED BY	Engr. R.E. Detalomos Jr.

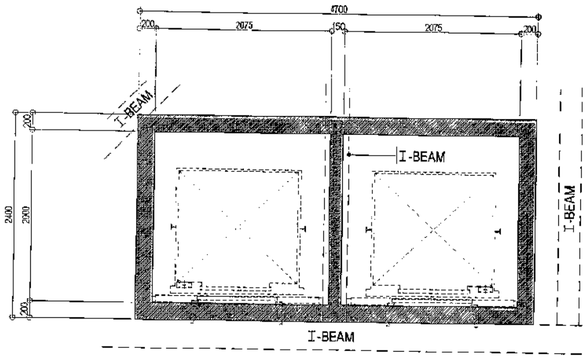
SHEET NO.:

ST-09



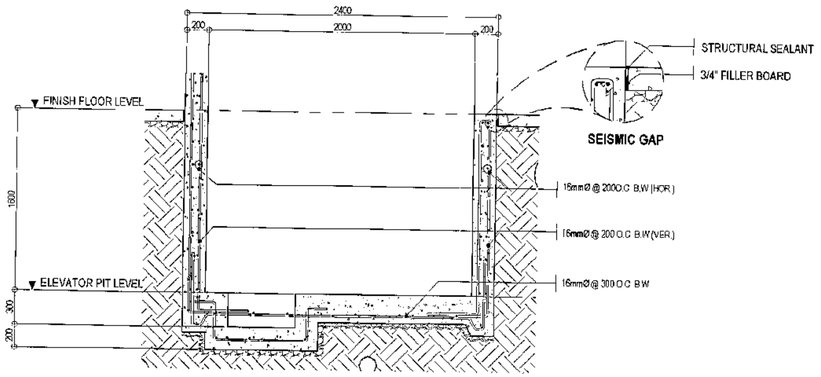
1 ELEVATOR SHAFT FOUNDATION PLAN

SCALE 1:40 METERS



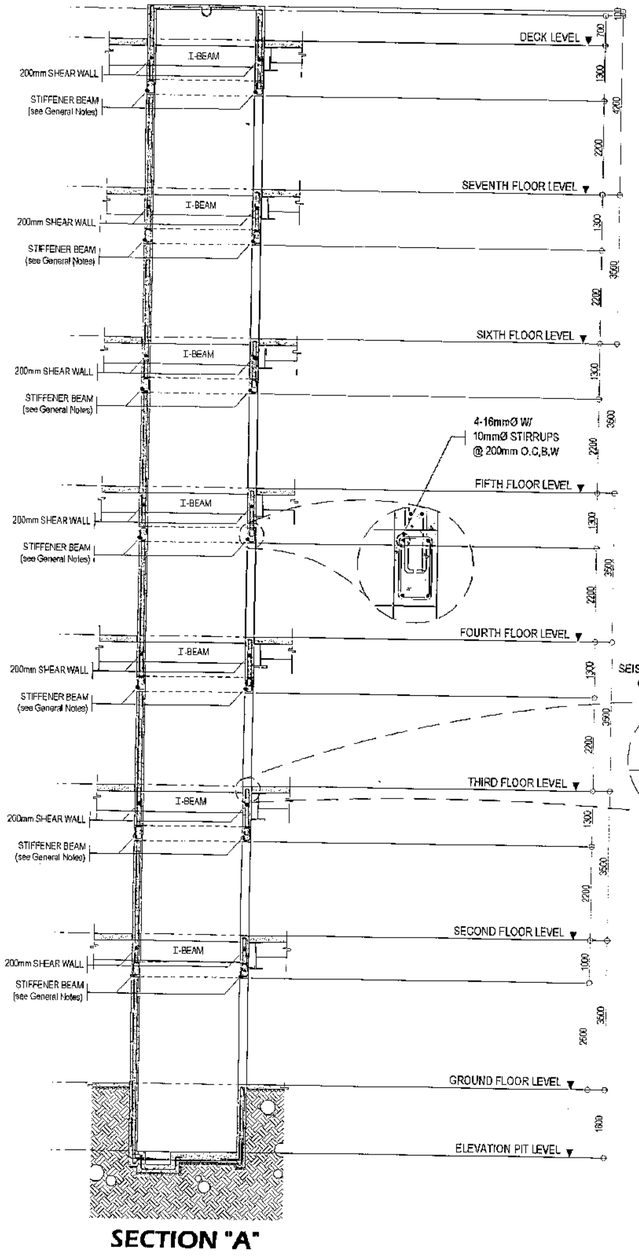
2 TYPICAL ELEVATOR SHAFT FRAMING PLAN

SCALE 1:40 METERS

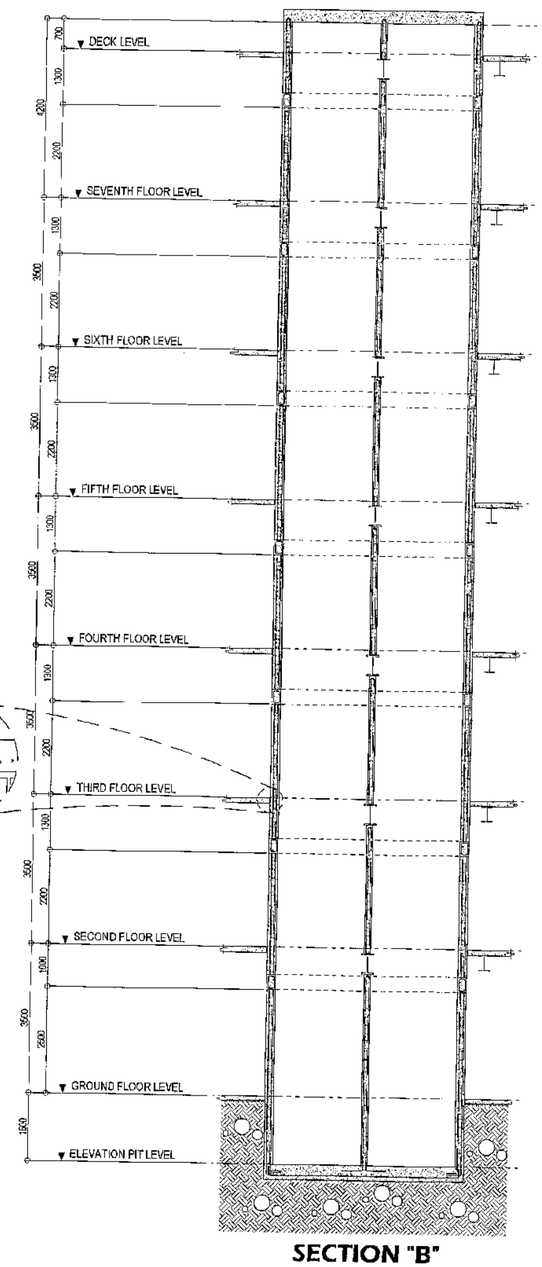


3 ELEVATOR PIT DETAIL

SCALE 1:30 METERS



SECTION "A"



SECTION "B"

4 SECTION OF ELEVATOR

SCALE 1:80 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
DRAWINGS AND SPECIFICATIONS ISSUED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF ANY AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.

RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

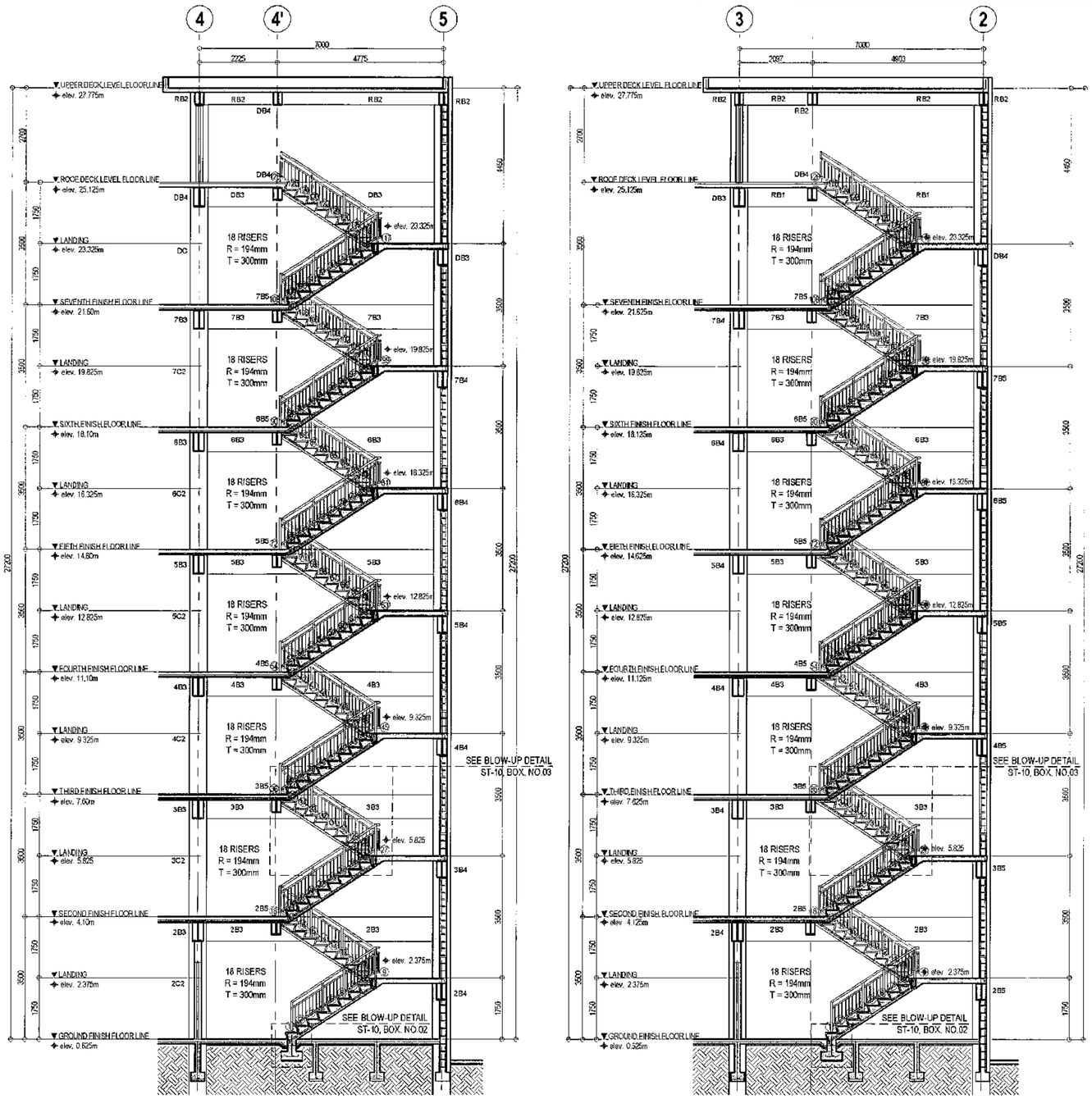
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
ELEVATOR DETAILS

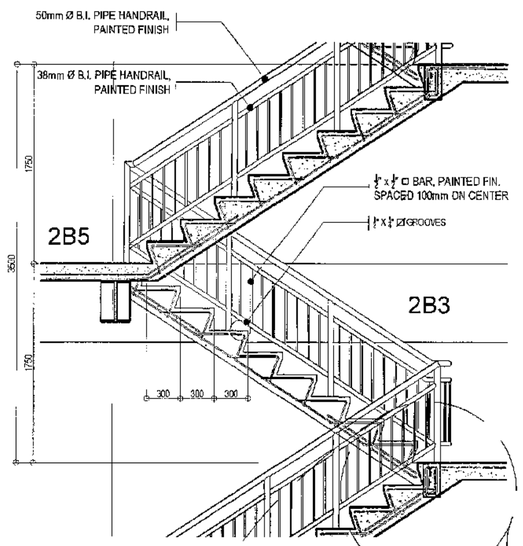
PROJECT NO.:	
DATE	November 2020
DRAWN BY	Arj.J.L.P.
DESIGNED BY	Engr. R.E.Delacoss Jr.
CHECKED BY	Engr. R.E.Delacoss Jr.

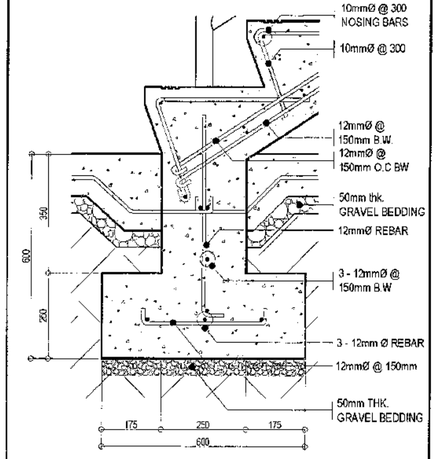
SHEET NO.: **ST-10**



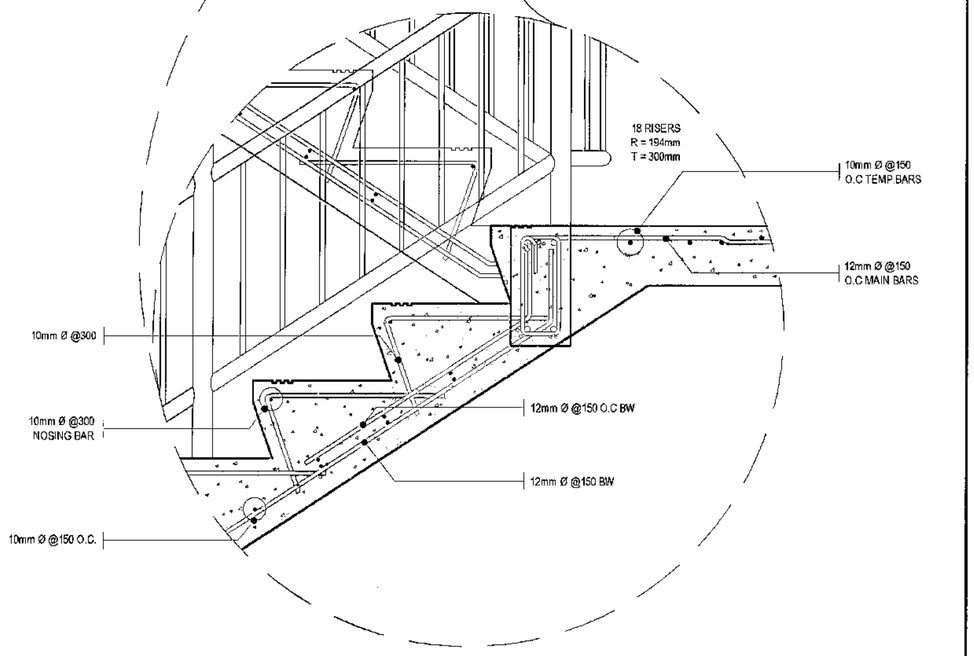
1 STAIR SECTION DETAIL

SCALE 1:80 METERS





2 DETAIL OF STAIR FOOTING



3 BLOW-UP DETAIL

SCALE 1:30 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

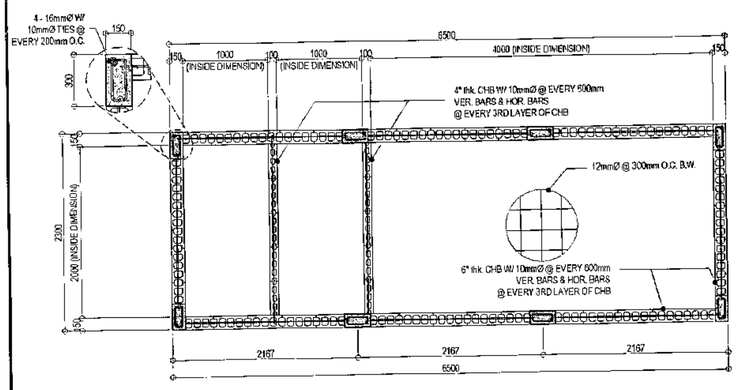
HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU] MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
STAIR SECTION
DETAIL OF STAIR FOOTING
BLOW-UP DETAIL

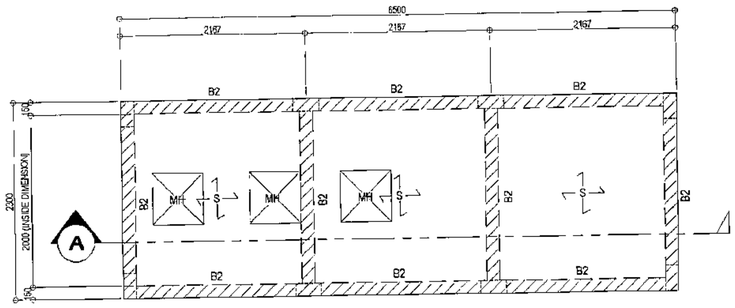
PROJECT NO.:	
DATE	November 2020
DRAWN BY	A.A.V.
DESIGNED BY	Engr. R.E.Debbiocos Jr.
CHECKED BY	Engr. R.E.Debbiocos Jr.

SHEET NO.: ST-11



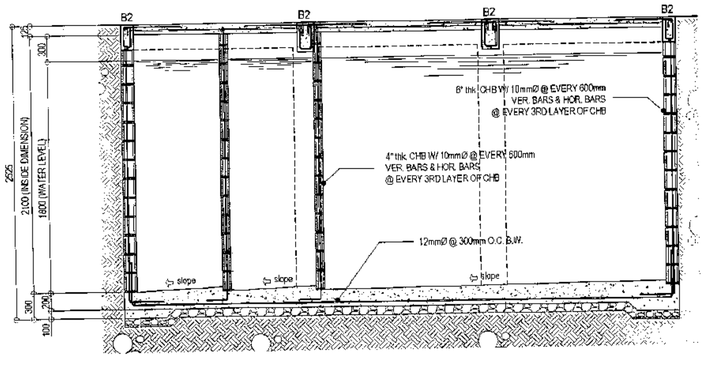
1 FOUNDATION PLAN (SEPTIC TANK)

SCALE 1:40 METERS



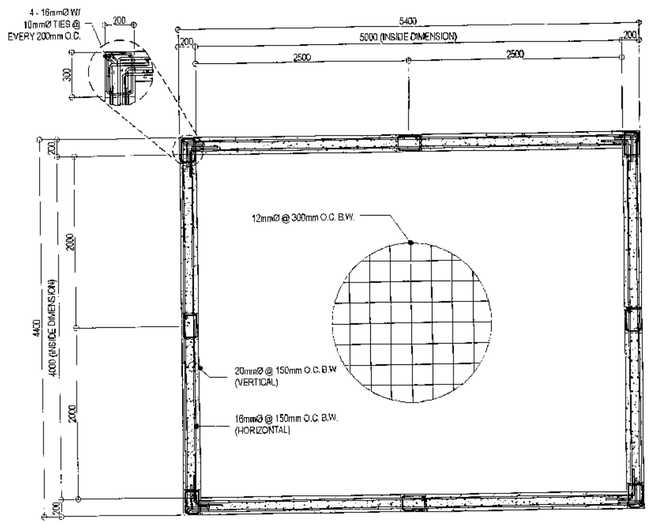
2 FRAMING PLAN (SEPTIC TANK)

SCALE 1:40 METERS



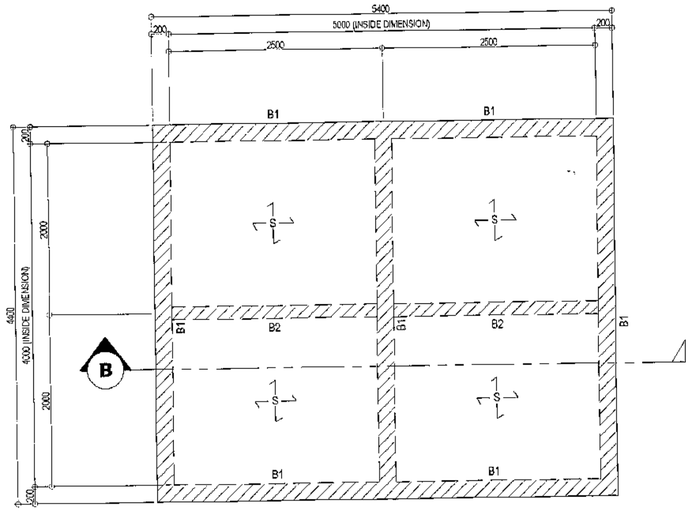
3 SECTION "A" (SEPTIC TANK)

SCALE 1:40 METERS



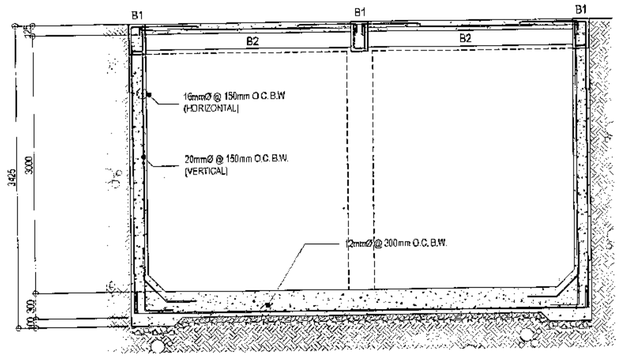
4 FOUNDATION PLAN (CISTERN TANK)

SCALE 1:40 METERS



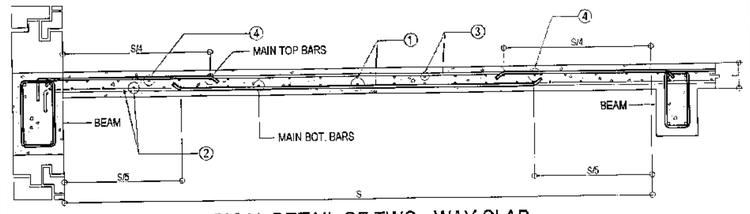
5 FRAMING PLAN (CISTERN TANK)

SCALE 1:40 METERS



6 SECTION "B" (CISTERN TANK)

SCALE 1:40 METERS

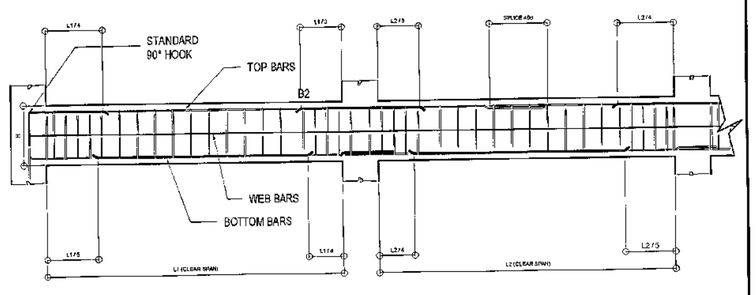


TYPICAL DETAIL OF TWO - WAY SLAB

MARK	t	REINFORCEMENT		SHORT SPAN				LONG SPAN				REMARK
		MAIN BARS	TEMP.	TOP BARS		BOT. BARS		TOP BARS		BOT. BARS		
				4	3	1	2	4	3	1	2	
S	125	12	10	150	300	150	300	150	300	150	300	TWO-WAY SLAB

7 SLAB DETAIL OF SEPTIC TANK & CISTERN

NOT TO SCALE



SCHEDULE OF BEAMS

BEAM MARK	DIMENSIONS (mm)		BAR Ø	TOP BARS			BOTTOM BARS			WEB BARS	STIRRUPS 10mmØ
	B	H		LEFT SUPPORT	MIDSPAN	RIGHT SUPPORT	LEFT SUPPORT	MIDSPAN	RIGHT SUPPORT		
B1	200	350	16	3	2	3	2	3	2	-	1 @ 50, 4 @ 100, REST @ 200mm O.C.
B2	150	300	16	2	2	2	2	2	2	-	1 @ 50, 4 @ 100, REST @ 200mm O.C.

8 BEAM SCHEDULE OF SEPTIC TANK & CISTERN

NOT TO SCALE

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CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. BHO), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU2 MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

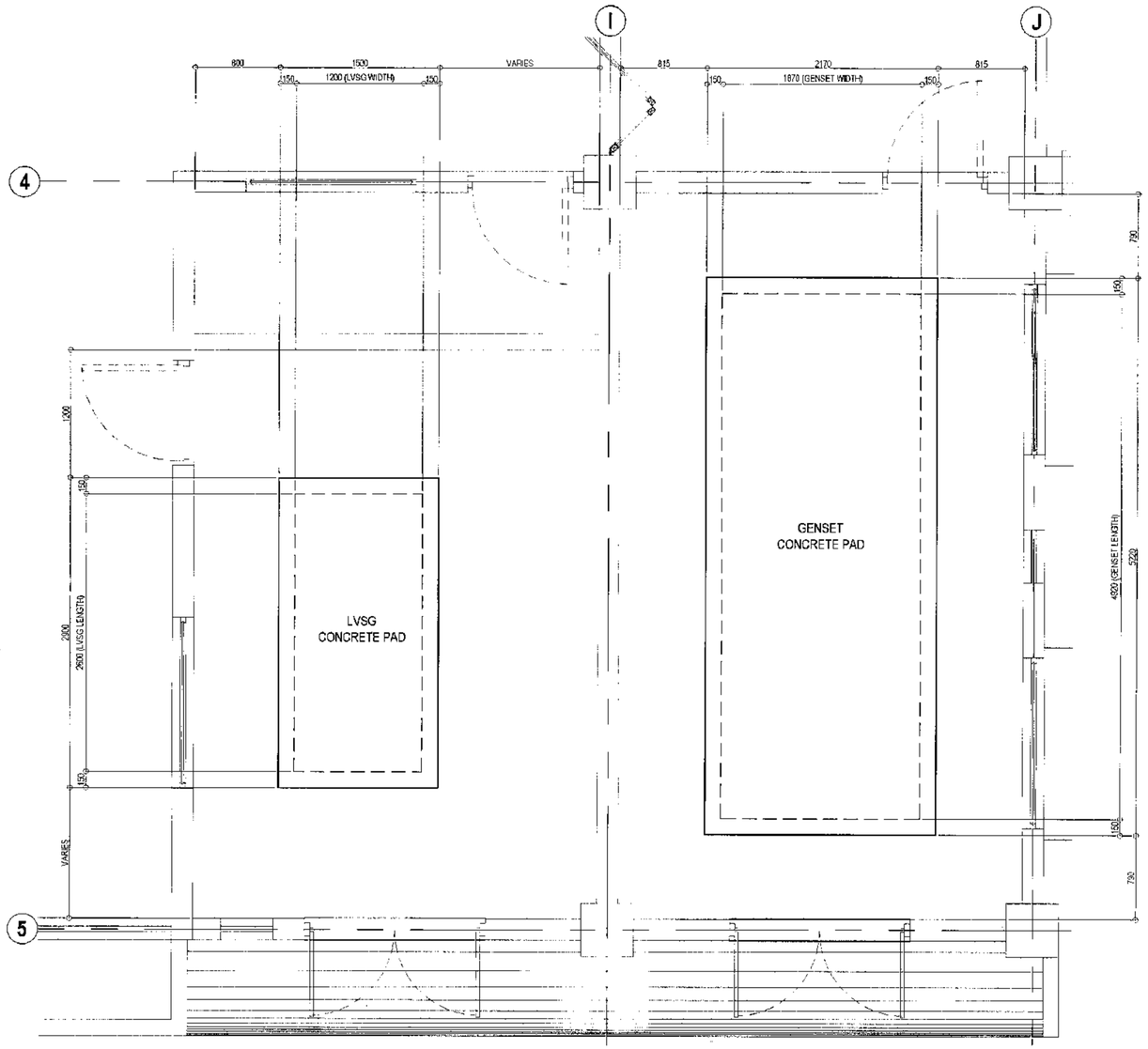
SEPTIC TANK DETAILS
CISTERN TANK DETAILS
SLAB DETAIL
SCHEDULE OF BEAM

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. JLR
DESIGNED BY	Engr. R.F. Dabalocos Jr.
CHECKED BY	Engr. R.F. Dabalocos Jr.

SHEET NO.:

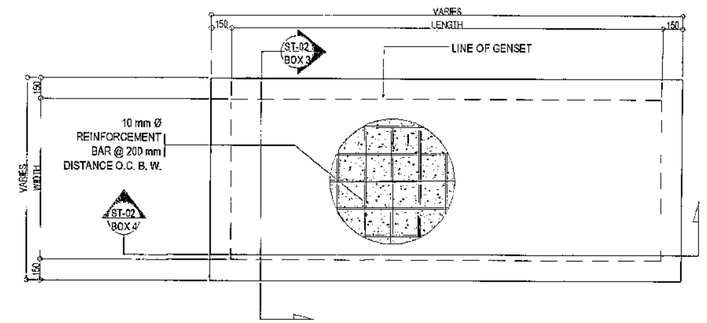
ST-12



GROUND FLOOR PLAN

1 PLAN OF GENSET/LVSG CONCRETE PAD

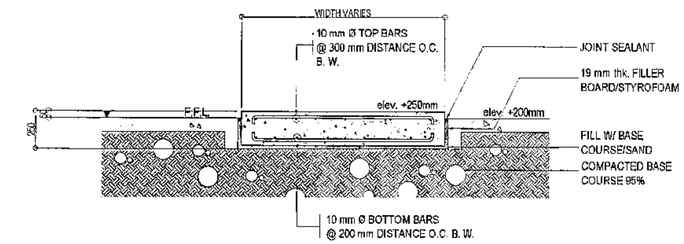
SCALE 1:100 METERS



NOTE:
1. FOLLOW DIMENSIONS GIVEN IN THE PLAN.

2 FOUNDATION PLAN (CONCRETE PAD)

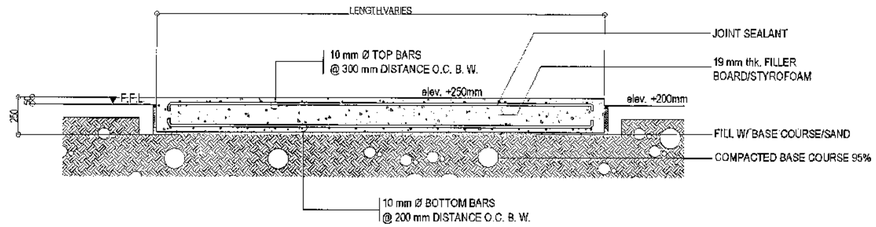
SCALE 1:25 METERS



NOTE:
1. FOLLOW DIMENSIONS GIVEN IN THE PLAN.

3 CROSS SECTION (CONCRETE PAD)

SCALE 1:25 METERS



NOTE:
1. FOLLOW DIMENSIONS GIVEN IN THE PLAN.

4 LONGITUDINAL SECTION (CONCRETE PAD)

SCALE 1:25 METERS

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ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION: BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
CONCRETE PAD DETAILS

PROJECT NO.:

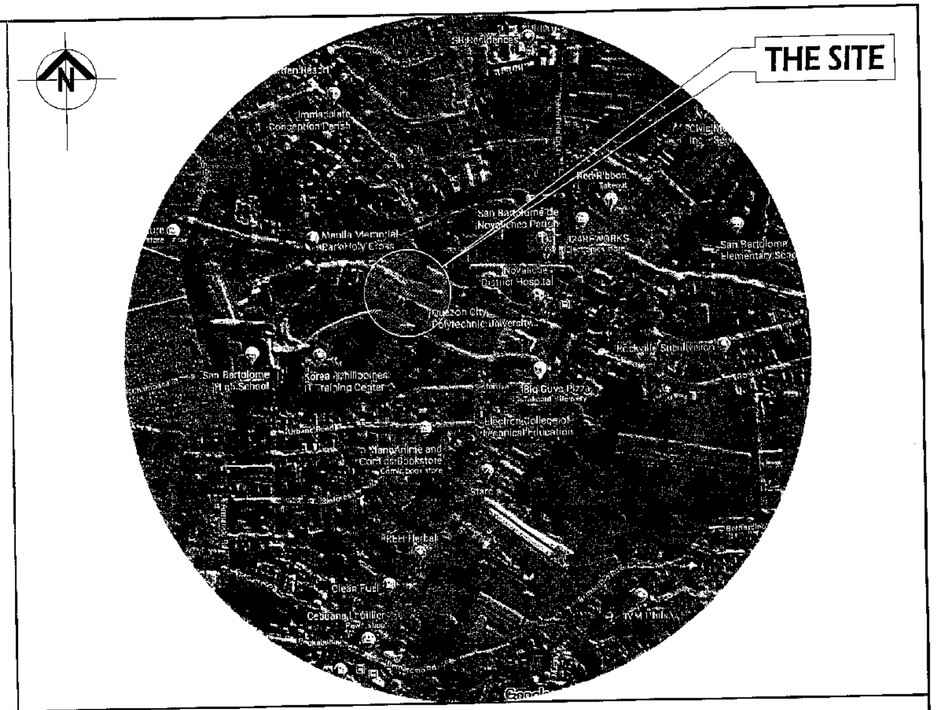
DATE	November 2020
DRAWN BY	Ar. J.L.P.
DESIGNED BY	Engr. R.E.Debalosos Jr.
CHECKED BY	Engr. R.E.Debalosos Jr.

SHEET NO.: **ST-13**

1. ALL ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY **LICENSED ELECTRICAL ENGINEER.**
2. THE ELECTRIC SERVICE ENTRANCE VOLTAGE SHALL BE 3-PHASE, 4 WIRES, 220VOLTS, 60Hz.
3. THE ELECTRICAL WIRING INSTALLATION SHALL BE DONE IN INTERMIDIATE METAL CONDUIT (IMC), ELECTRICAL METALIC TUBING (EMT), FLEXIBLE CONDUIT SHALL BE USED WHERE REQUIRED. MINIMUM SIZE FOR ALL CONDUIT SHALL BE 15mm NOMINAL INSIDE DIAMETER ELECTRICAL TRADE SIZE. WHERE PVC CONDUITS IS TO BE USED, IT SHALL BE SCHEDULE 40.
4. ALL WIRES SHALL BE COPPER. TYPE 'THW', 'THHN' OR 'THWN' SHALL BE USED. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING SHALL BE 3.5mm².
5. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE SUPPLY ENTRANCE FOR CONNECTION TO THE POWER SUPPLY.
6. ALL PIPE SLEEVES SHALL BE PROVIDED WITH PROPER SUPPORT OR ANCHORAGE NECESSARY FOR PERMANENT CONNECTION WITH CONCRETE WALLING OR BEAM.
7. ALL EQUIPMENTS, SWITCHES, PANEL BOARDS, LIGHTING FIXTURES AND ALL NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
8. ALL 20- AMPERE CIRCUIT HOMERUNS TO PANELBOARDS MORE THAN 30 METERS IN LENGTH SHALL BE 5.5mm² UNLESS OTHERWISE SPECIFIED.
9. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH INTERRUPTING CAPACITY AS INDICATED IN THE PLANS PANELBOARDS SHALL BE GALVANIZED SHEET POWDER COATED GAUGE 16 MINIMUM. ALL CIRCUIT BREAKER SHALL BE SIEMENS BRAND OR APPROVED EQUIVALENT.
10. ANY DISCRIPANCY IN LOCATION AND RATINGS OF EQUIPMENT AND APPARATUS SHALL BE VERIFIED WITH THE OWNER OR ANY OF HIS REPRESENTATIVES AND CHANGES SHALL BE MADE ACCORDINGLY.
11. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE BRAND NEW AND MUST BE OF THE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE INTENDED. SUBMIT SAMPLES FOR ARCHITECT APPROVAL.
12. FOR EACH SPARE BRANCH CIRCUIT IN PANEL BOARD, PROVIDE ONE 20mm DIAMETER EMPTY CONDUIT TERMINATED TO 100mm OCTAGONAL BOX ABOVE CEILING. MINIMUM SIZE OF PULLBOX SHALL BE 150 X 150 X 100.
13. PROVIDE PULL WIRES IN ALL SPARE DUCT AND EMPTY CONDUITS.
14. FEEDER AND BRANCH CIRCUIT CONDUCTORS IN CABLE TRAYS SHALL BE GROUPED, BONDED AND TAGGED TO INDICATE CLEARLY THE ELECTRICAL CHARACTERISTICS, SUCH AS CIRCUIT NUMBER AND PANEL DESIGNATION.
15. FOR EXACT LOCATION AND RATINGS OF MECANICAL EQUIPMENTS, REFER TO MECHANICAL DRAWINGS.
16. SUBMIT TEST RESULTS / REPORT.
17. **PROVIDE SLEEVE PIPES FOR STRUCTURAL CABLING & ADDITIONAL POWER PROVISION**

1 GENERAL NOTES

NOT TO SCALE



3 VICINITY MAP

NOT TO SCALE

- LIGHTING AND POWER PANEL
- SWITCH LOCATION
- S - SINGLE POLE SWITCH
- S_2,Sab - TWO-GANG SWITCH(2 SINGLE IN 1 SWITCH PLATE)
- S_3,Sabc - THREE-GANG SWITCH(3 SINGLE IN 1 SWITCH PLATE)
- S_3W - THREE WAY SWITCH
- $2S_3W$ - 2-GANG THREE-WAY SWITCH
- Ss - SELECTOR SWITCH
- BOX TYPE FLUORESCENT FIXTURE 1 X 36W FLUORESCENT
- 1 x 36W FLOURESCENT FIXTURE, DUST PROOF
- TROFFER-TYPE FIXTURE (1200mm x 300mm)
- SINGLE CONVENIENCE OUTLET W/ 1 x EMERGENCY LIGHT,TWIN HEAD
- CEILING MOUNTED EXHAUST FAN
- CEILING FAN
- DUPLEX CONVENIENCE OUTLET W/ GROUND (UNIVERSAL TYPE)
- SPECIAL PURPOSE OUTLET/ACU OUTLET
- EL - SINGLE CONVENIENCE OUTLET W/ 1 x EXIT LIGHT SLIM TYPE (SHADE INDICATES EXIT DIRECTION)
- HD - SPECIAL PURPOSED OUTLET W/ HAND DRYER
- RU/RD - RISER UP / RISER DOWN
- JUNCTION BOX
- POWER CIRCUIT RUN
- LIGHTING CIRCUIT RUN
- PPA - CIRCUIT HOMERUN TO PANELBOARD
- ECB (ENCLOSED CIRCUIT BREAKER)
- 3 x 16 CHANNEL HD DIGITAL VIDEO RECORDER (DVR) IN LOW PROFILE LOCK BOX
- PAGING/PUBLIC ADDRESS EQQUIPMENT
- FACP - FIRE ALARM CONTROL PANEL
- PMP - PARKING MANAGEMENT PANEL
- TTC - TELEPHONE TERMINAL CABINET
- UPS - UNINTERUPTABLE POWER SUPPLY
- PB - PULL BOX
- SD - SMOKE DETECTOR
- HD - HEAT DETECTOR
- SP - CEILING MOUNTED SPEAKER, 8 WATTS
- FIRE ALARM MANUAL PULL STATION & ELECTRONIC SIREN W/ STROBE LIGHT
- HORN SPEAKER, 30 WATTS (WALL/COLUMN MOUNTED)
- HORN SPEAKER, 30 WATTS (POST MOUNTED)
- HD BULLET CCTV CAMERA (OUTDOOR WALL MOUNTED)
- HD BULLET CCTV CAMERA (OUTDOOR POST MOUNTED)
- HD DOME CCTV CAMERA
- VC - VOLUME CONTROL, 16 WATTS (WALL MPUNTED)
- SIMPLEX TELEPHONE OUTLET, 1-DEVICE
- RG - LAMP INDICATOR (LED) (RED = VACANT; GREEN = OCCUPIED)
- OCCUPANCY SENSOR/DETECTOR
- LCD - LIQUID CRYSTAL DISPLAY WITH OUTDOOR HOUSING, WALL/COLUMN MOUNTED
- 3 x 32" LED DISPLAY/MONITOR

2 LEGENDS & SYMBOLS

NOT TO SCALE

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, plep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
DIC, CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

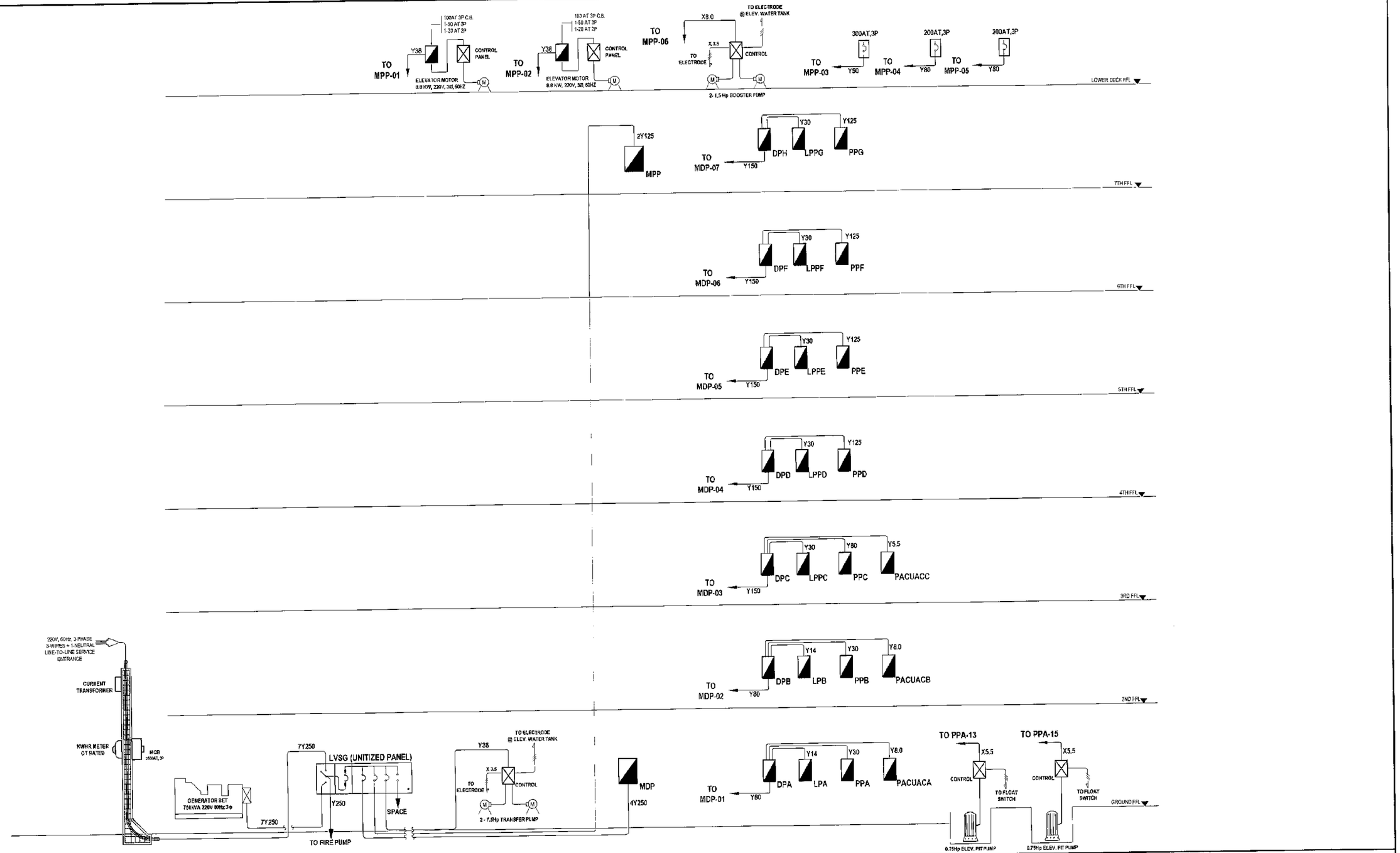
GENERAL NOTES
LEGENDS AND SYMBOLS
VICINITY MAP

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.:

EL-01



SCALE 1:100 METERS

1 RISER DIAGRAM

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CITY ARCHITECT DEPARTMENT
SP CIVIC CENTER - D (GRD. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA (rap, piep)
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Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

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MAYOR Q.C.

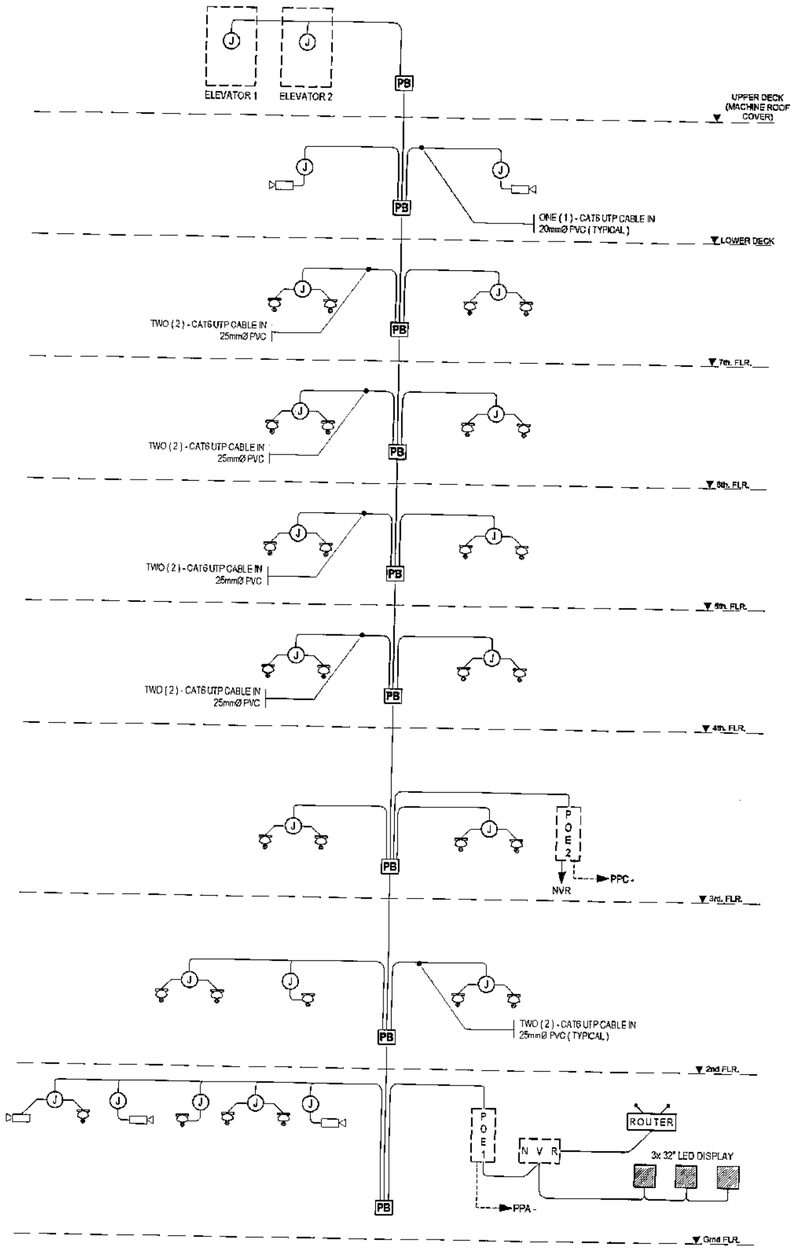
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
RISER DIAGRAM

PROJECT NO.:

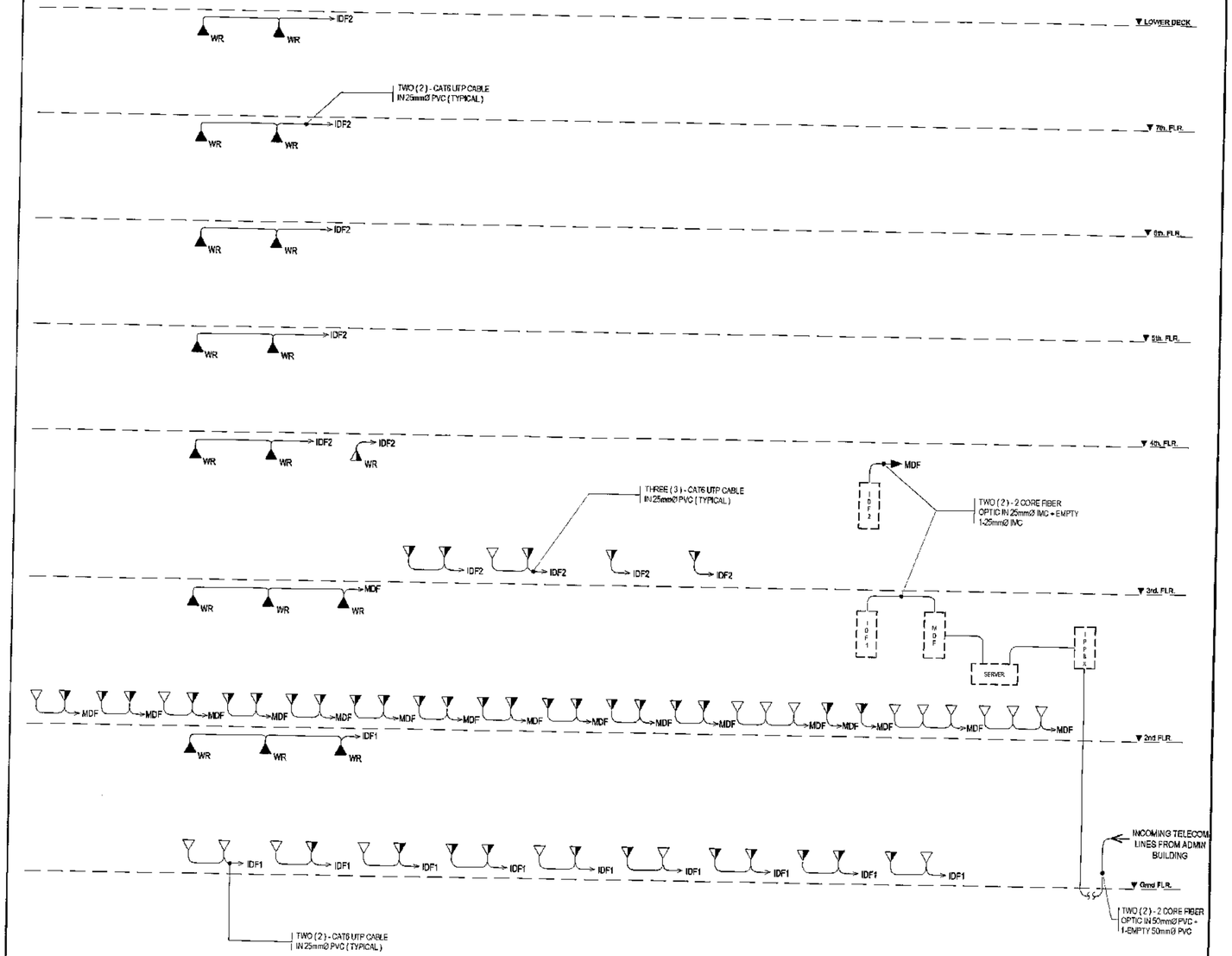
DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.:
EL-02



1 C.C.T.V RISER DIAGRAM

NTS



2 DATA & L.A.N. RISER DIAGRAM

NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SIF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, *luap, plep*
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

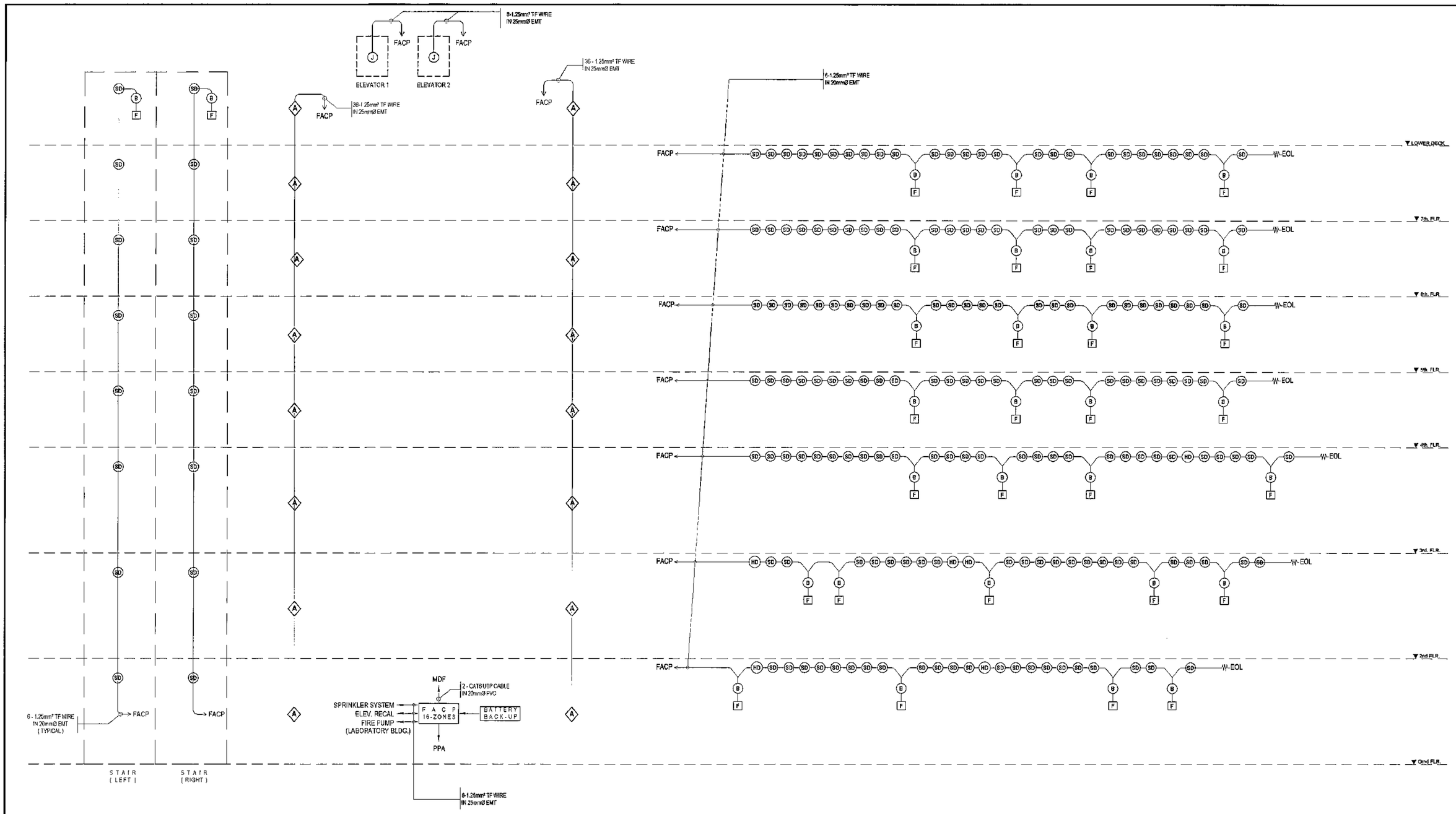
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

CCTV RISER DIAGRAM
DATA & LAN RISER DIAGRAM

PROJECT NO.:	
DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.: **EL-03**



1 F.D.A.S RISER DIAGRAM

NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:	RECOMMENDING APPROVAL	APPROVED BY :	PROJECT TITLE :	SHEET CONTENTS :	PROJECT NO.:	SHEET NO.:
DRAWINGS AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS ON SUBJUNCT, WHETHER EXECUTED PARTLY OR IN WHOLE.	Ar. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT Engr. ISAGANI R. VERZOSA, Jr. OIC, CITY ENGINEER	HON. MA. JOSEFINA G. BELMONTE MAYOR Q.C.	PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2) LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY	FDAS RISER DIAGRAM	DATE: November 2020 DRAWN BY: C.S.T DESIGNED BY: Engr. A.R.Gammad CHECKED BY: Engr. T.B.Infante Jr.	EL-04

PANEL: LVSG (UNITIZED PANEL)
MAIN: 2500AT, 2500AF, 3P
100KAIC, 600V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			MDP	883.26	702.59	732.85	-	521,814	1600AT, 3P, MCCB	4 Sets of 3 - 250mm² THHN + 1 - 60mm² THW (G) in 90mmØ IMC / 4Y250
2	220			MPP	-	20.00	-	348.00	143,069	500AT, 3P, MCCB	2 Sets of 3 - 125mm² THHN + 1 - 30mm² TW (G) in 65mmØ IMC / 2Y125
3	220			2 - 7.5Hp TRANSFER PUMP				44.00	17,508	125AT, 3P, MCCB	3 - 38mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y38
4	220			SPACE							
				TOTAL	883.26	722.59	732.85	392.00	682,391		

I_t = 883.26 * √3 + 392.00 + (104.00 * 0.25) = 1,947.85 Amperes

Feeder Line:
Use: 7 Sets 3 - 250mm² THHN + 1 - 60mm² THW (G) in 90mmØ IMC / 7Y250

ATS: 2500AT, 2500AF, 3P, 220V, 60 Hz

GENERATOR SET
Use: 1 - 750kVA, 3P, 220V, 60Hz 1800 rpm with 0.8 pf, Diesel Engine Driven Stand-By Generator Set

PANEL: MDP (GROUND FLOOR)
MAIN: 1600AT, 2000AF, 3P
100KAIC, 600V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			DPA	94.85	93.64	96.35	-	62,804	400AT, 3P, MCCB	3 - 80mm² THHN + 1 - 22mm² TW (G) in 60mmØ IMC / Y80
2	220			DPB	101.27	76.95	95.00	-	60,110	300AT, 3P, MCCB	3 - 80mm² THHN + 1 - 22mm² TW (G) in 50mmØ IMC / Y80
3	220			DPC	125.88	111.55	119.32	-	80,520	300AT, 3P, MCCB	3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC / Y150
4	220			DPD	136.91	105.18	106.05	-	78,970	300AT, 3P, MCCB	3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC / Y150
5	220			DPE	136.91	105.18	106.05	-	78,970	300AT, 3P, MCCB	3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC / Y150
6	220			DPF	136.91	105.18	106.05	-	78,970	300AT, 3P, MCCB	3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC / Y150
7	220			DPG	150.55	104.91	104.05	-	81,470	300AT, 3P, MCCB	3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC / Y150
8	220			SPACE							
				TOTAL	883.26	702.59	732.85	-	521,814		

I_t = 883.26 * √3 + (17.00 * 0.25) = 1,534.10 Amperes

Main Feeder Line:
Use: 4 Sets of 3 - 250mm² THHN + 1 - 60mm² THW (G) in 90mmØ IMC / 4Y250

PANEL: DPA (GROUND FLOOR)
MAIN: 200AT, 200AF, 3P
35KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			LPA	26.14	31.82	30.91	-	19,550	70AT, 2P, BOLT-ON	3 - 14mm² THHN + 1 - 5.5mm² TW (G) in 25mmØ IMC / Y14
2	220			PPA	50.54	43.64	47.26	-	31,254	100AT, 3P, MCCB	3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y30
3	220			LPPACA (MSFCU GF)	18.18	18.18	18.18	-	12,000	50AT, 3P, BOLT-ON	3 - 8.0mm² THHN + 1 - 3.5mm² TW (G) in 25mmØ IMC / Y8.0
4	220			SPACE							
				TOTAL	94.85	93.64	96.35	-	82,804		

I_t = 96.35 * √3 + (6.90 x 0.25) = 168.61 Amperes

Feeder Line:
Use: 3 - 80mm² THHN + 1 - 22mm² TW (G) in 50mmØ IMC / Y80

PANEL: LPA (GROUND FLOOR)
MAIN: 70AT, 100AF, 3P
18KAIC, 240V, BOLT-ON

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220	20			9.09				2,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220	15		5 - Exhaust Fan	7.95				1,750	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220	20		6 - Exhaust Fan			10.45		2,300	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220	15					6.82		1,500	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220	15				6.82			1,500	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220	15				6.82			1,500	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
8	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
9	220	10					4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
10	220	20					9.09		2,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
11	220	25				11.36			2,500	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
12	220			Spare		6.82			1,500	30AT, 2P, Bolt-On	
				TOTAL	26.14	31.82	30.91	-	19,550		

I_t = 31.82 * √3 = 55.11 Amperes

Feeder Line:
Use: 3 - 14mm² THHN + 1 - 5.5mm² TW (G) in 25mmØ IMC / Y14

PANEL: PPA (GROUND FLOOR)
MAIN: 100AT, 100AF, 3P
25KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220		10		8.18				1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220		10		8.18				1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220		8				8.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220		8				8.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220			5 - Emergency Light / 2 - Exit Light		8.18			1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220			6 - Emergency Light		8.18			1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220			FACP Power Provision	13.64				3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
8	220			CCTVPower Provision	13.64				3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
9	220			Audio Visual Power Provision			13.64		3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
10	220			Audio Visual Power Provision			13.64		3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
11	220			Exhaust Power Provision		13.64			3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
12	220			Exhaust Power Provision		13.64			3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
13	220			0.75Hp Elevator Pit Pump	6.90				1,587	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
14	220			Space	-						
15	220			0.75Hp Elevator Pit Pump			6.90		1,587	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
16	220			Space			-				
				TOTAL	50.54	43.64	47.26	-	31,254		

I_t = 50.54 * √3 + (6.90 x 0.25) = 89.26 Amperes

Feeder Line:
Use: 3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y30

PANEL: LPPACA (MSFCU GF)
MAIN: 50AT, 100AF, 3P
18KAIC, 240V, BOLT-ON

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			MSFCU 02	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220			MSFCU 02	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220			MSFCU 02			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220			MSFCU 02			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220			MSFCU 03		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220			MSFCU 04		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220			MSFCU 04	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
8	220			MSFCU 06	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
9	220			MSFCU 06			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
10	220			MSFCU 06			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
11	220			MSFCU 07		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
12	220			MSFCU 07		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
				TOTAL	18.18	18.18	18.18	-	12,000		

I_t = 18.18 * √3 = 31.49 Amperes

Feeder Line:
Use: 3 - 8.0mm² THHN + 1 - 3.5mm² TW (G) in 25mmØ IMC / Y8.0

PANEL: DPB (SECOND FLOOR)
MAIN: 200AT, 200AF, 3P
35KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			LPB	30.91	18.41	34.09	-	18,350	70AT, 3P, BOLT-ON	3 - 14mm² THHN + 1 - 5.5mm² TW (G) in 25mmØ IMC / Y14
2	220			PPB	43.09	40.36	38.18	-	26,760	100AT, 3P, MCCB	3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y30
3	220			LPPACB (MSFCU 2F)	27.27	18.18	22.73	-	15,000	50AT, 3P, BOLT-ON	3 - 8.0mm² THHN + 1 - 3.5mm² TW (G) in 25mmØ IMC / Y8.0
4	220			SPACE							
				TOTAL	101.27	76.95	95.00	-	60,110		

I_t = 101.27 * √3 = 175.40 Amperes

Feeder Line:
Use: 3 - 80mm² THHN + 1 - 22mm² TW (G) in 50mmØ IMC / Y80

NTS

1 SCHEDULE OF LOADS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL
Ar. LUCILLE H. CHUA, fuap, plep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION: BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SCHEDULE OF LOADS

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.: EL-05

PANEL: **LPB (SECOND FLOOR)**
MAIN: **70AT, 100AF, 3P**
18KAIC, 240V, BOLT-ON

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220	15			6.82				1,500	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220	20			9.09				2,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220	25					11.36		2,500	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220	20					9.09		2,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220	20				9.09			2,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220	20		1 - Exhaust Fan		9.32			2,050	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220	15		6 - Exhaust Fan	8.18				1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
8	220			Spare	6.82				1,500	30AT, 2P, Bolt-On	
9	220			Spare			6.82		1,500	30AT, 2P, Bolt-On	
10	220			Spare			6.82		1,500	30AT, 2P, Bolt-On	
TOTAL					30.91	18.41	34.09	-	18,350		

I_t = 34.09 * $\sqrt{3}$ = 59.05 Amperes
Feeder Line:
Use: 3 - 14mm² THHN + 1 - 5.5mm² TW (G) in 25mmØ IMC / Y14

PANEL: **PPB (SECOND FLOOR)**
MAIN: **100AT, 100AF, 3P**
25KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220		8		6.55				1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220		8		6.55				1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220		10				8.18		1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220		10				8.18		1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220		8			6.55			1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220		8			6.55			1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220		10		8.18				1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
8	220			6 - Emergency Light / 1 - Exit Light	8.18				1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
9	220			5 - Emergency Light / 1 - Exit Light			8.18		1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
10	220			IDF Power Provision			13.64		3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
11	220			MDF Power Provision		13.64			3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
12	220			Server Power Provision		13.64			3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
13	220			Spare	6.82				1,500	30AT, 2P, Bolt-On	
14	220			Spare	6.82				1,500	30AT, 2P, Bolt-On	
TOTAL					43.09	40.36	38.18	-	26,760		

I_t = 43.09 * $\sqrt{3}$ = 74.63 Amperes
Feeder Line:
Use: 3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y30

PANEL: **LPPACB (MSFCU 2F)**
MAIN: **50AT, 100AF, 3P**
18KAIC, 240V, BOLT-ON

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			MSFCU 01	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220			MSFCU 01	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220			MSFCU 01			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220			MSFCU 01			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220			MSFCU 01		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220			MSFCU 01		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220			MSFCU 01	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
8	220			MSFCU 01	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
9	220			MSFCU 01			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
10	220			MSFCU 01			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
11	220			MSFCU 01		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
12	220			MSFCU 01		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
13	220			MSFCU 02	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
14	220			MSFCU 02	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
15	220			MSFCU 05			4.56		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
16	220			Space			-				
TOTAL					27.27	18.18	22.73	-	15,000		

I_t = 27.27 * $\sqrt{3}$ = 47.23 Amperes
Feeder Line:
Use: 3 - 8.0mm² THHN + 1 - 3.5mm² TW (G) in 25mmØ IMC / Y8.0

PANEL: **DPC (THIRD FLOOR)**
MAIN: **300AT, 300AF, 3P**
65KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			LPPC	48.77	34.45	42.23	-	27,600	100AT, 3P, MCCB	3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y3
2	220			PPC	68.00	68.00	68.00	-	46,920	200AT, 3P, MCCB	3 - 80mm² THHN + 1 - 22mm² TW (G) in 50mmØ IMC / Y8
3	220			LPPACC (MSFCU 3F)	9.09	9.09	9.09	-	6,000	30AT, 3P, BOLT-ON	3 - 5.5mm² THHN + 1 - 3.5mm² TW (G) in 25mmØ IMC / Y5
4	220			SPACE							
TOTAL					125.86	111.55	119.32	-	80,520		

I_t = 125.86 * $\sqrt{3}$ + (17.00 * 0.25) = 222.25 Amperes
Feeder Line:
Use: 3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC / Y150

PANEL: **LPPC (THIRD FLOOR)**
MAIN: **100AT, 100AF, 3P**
25KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220	10					4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220	10					4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220	10				4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220	10				4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220	15		6 - Exhaust Fan	8.18				1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
8	220	10		1 - Ceiling Fan	4.77				1,050	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
9	220	20		1 - Exhaust Fan			10.23		2,250	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
10	220		8				6.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
11	220		8			6.55			1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
12	220		8			6.55			1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
13	220		8		6.55				1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
14	220		8		6.55				1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
15	220		8				6.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
16	220		12				9.82		2,160	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
17	220		5			4.09			900	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
18	220			7 - Emergency Light / 2 - Exit Light		8.18			1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
19	220			IDF Power Provision	13.64				3,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
20	220			Space	-						
TOTAL					48.77	34.45	42.23	-	27,600		

I_t = 48.77 * $\sqrt{3}$ = 84.47 Amperes
Feeder Line:
Use: 3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y30

PANEL: **FPC (THIRD FLOOR)**
MAIN: **200AT, 200AF, 3P**
35KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			3Hp Aircon (Room 01)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
2	220			3Hp Aircon (Room 01)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
3	220			3Hp Aircon (Room 02)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
4	220			3Hp Aircon (Room 02)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
5	220			3Hp Aircon (Room 03)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
6	220			3Hp Aircon (Room 03)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
7	220			3Hp Aircon (Room 04)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
8	220			3Hp Aircon (Room 04)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
9	220			3Hp Aircon (Room 05)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
10	220			3Hp Aircon (Room 05)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
11	220			3Hp Aircon (Room 06)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
12	220			3Hp Aircon (Room 06)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
13	220			Space							
14	220			Space							
TOTAL					68.00	68.00	68.00	-	46,920		

I_t = 68.00 * $\sqrt{3}$ + (17.00 * 0.25) = 122.03 Amperes
Feeder Line:
Use: 3 - 80mm² THHN + 1 - 22mm² TW (G) in 50mmØ IMC / Y80

NTS

1 SCHEDULE OF LOADS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CMC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
DRAWINGS AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE

RECOMMENDING APPROVAL
Ar. LUCILLE H. CHUA FUAP, PIEP
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC/CITY ENGINEER

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION: BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SCHEDULE OF LOADS

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.: **EL-06**

PANEL: LPPACC (MSFCU 3F)
MAIN: 30AT, 100AF, 3P
18KAIC, 240V, BOLT-ON

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			MSFCU 02	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220			MSFCU 04	4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220			MSFCU 04			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220			MSFCU 05			4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220			MSFCU 05		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220			MSFCU 06		4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
				TOTAL	9.09	9.09	9.09	-	6,000		

I_t = 9.09 * √3 = 15.74 Amperes
Feeder Line:
Use: 3 - 5.5mm² THHN + 1 - 3.5mm² TW (G) in 25mmØ IMC / Y5.5

PANEL: DPD (FOURTH FLOOR) TYPICAL UP TO DPF (SIXTH FLOOR)
MAIN: 300AT, 300AF, 3P
65KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			LPPD	34.91	37.18	38.05	-	24,230	100AT, 3P, MCCB	3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y
2	220			PPD	102.00	68.00	68.00	-	54,740	250AT, 3P, MCCB	3 - 125mm² THHN + 1 - 30mm² TW (G) in 65mmØ IMC /
3	220			SPACE							
4	220			SPACE							
				TOTAL	136.91	105.18	106.05	-	78,970		

I_t = 138.91 * √3 + (17.00 * 0.25) = 241.39 Amperes
Feeder Line:
Use: 3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC / Y150

PANEL: LPPD (FOURTH FLOOR) TYPICAL UP TO LPPF (SIXTH FLOOR)
MAIN: 100AT, 100AF, 3P
25KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220	10					4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220	10					4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220	10				4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220	10				4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
8	220	15		6 - Exhaust Fan	8.18				1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
9	220	20		1 - Exhaust Fan			9.32		2,050	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
10	220		8				6.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
11	220		8			6.55			1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
12	220		8			6.55			1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
13	220		8		6.55				1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
14	220		8		6.55				1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
15	220		8				6.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
16	220		8				6.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
17	220			7 - Emergency Light / 2 - Exit Light		8.18			1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
18	220			Spare		6.82			1,500	30AT, 2P, Bolt-On	
				TOTAL	34.91	37.18	38.05	-	24,230		

I_t = 38.05 * √3 = 85.90 Amperes
Feeder Line:
Use: 3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y30

PANEL: PPD (FOURTH FLOOR) TYPICAL UP TO PPF (SIXTH FLOOR)
MAIN: 250AT, 300AF, 3P
35KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			3Hp Aircon (Room 01)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
2	220			3Hp Aircon (Room 01)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
3	220			3Hp Aircon (Room 02)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
4	220			3Hp Aircon (Room 02)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
5	220			3Hp Aircon (Room 03)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
6	220			3Hp Aircon (Room 03)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
7	220			3Hp Aircon (Room 04)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
8	220			3Hp Aircon (Room 04)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
9	220			3Hp Aircon (Room 05)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
10	220			3Hp Aircon (Room 05)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
11	220			3Hp Aircon (Room 06)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
12	220			3Hp Aircon (Room 06)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
13	220			3Hp Aircon (Room 07)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
14	220			3Hp Aircon (Room 07)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
15	220			Space							
16	220			Space							
				TOTAL	102.00	68.00	68.00	-	54,740		

I_t = 102.00 √ 3 + (17.00 * 0.25) = 180.92 Amperes
Feeder Line:
Use: 3 - 125mm² THHN + 1 - 30mm² TW (G) in 65mmØ IMC / Y125

PANEL: DPG (SEVENTH FLOOR)
MAIN: 300AT, 300AF, 3P
65KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			LPPG	48.55	36.91	36.05	-	26,750	100AT, 3P, MCCB	3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y
2	220			PPG	102.00	68.00	68.00	-	54,740	250AT, 3P, MCCB	3 - 125mm² THHN + 1 - 30mm² TW (G) in 65mmØ IMC /
3	220			SPACE							
4	220			SPACE							
				TOTAL	150.55	104.91	104.05	-	81,470		

I_t = 150.55 * √ 3 + (17.00 * 0.25) = 265.01 Amperes
Feeder Line:
Use: 3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC / Y150

PANEL: LPPG (SEVENTH FLOOR)
MAIN: 100AT, 100AF, 3P
25KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
2	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
3	220	10					4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
4	220	10					4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
5	220	10				4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
6	220	10				4.55			1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
7	220	10			4.55				1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
8	220	15		6 - Exhaust Fan	8.18				1,900	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
9	220	20		1 - Exhaust Fan			9.32		2,050	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
10	220	10					4.55		1,000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
11	220			Spare		6.55			1,440	20AT, 2P, Bolt-On	
12	220		8			6.55			1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
13	220		8		6.55				1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
14	220		8		6.55				1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
15	220		8				6.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
16	220		8				6.55		1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
17	220					6.55			1,440	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
18	220			Signage Power Provision	8.82				1,800	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² TW in 20mmØ PVC
19	220			Spare	8.82				1,500	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² TW in 20mmØ PVC
20	220								1,500	30AT, 2P, Bolt-On	
				TOTAL	48.55	36.91	36.05	-	26,750		

I_t = 48.55 * √3 = 84.09 Amperes
Feeder Line:
Use: 3 - 30mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC / Y30

PANEL: PPD (SEVENTH FLOOR)
MAIN: 250AT, 300AF, 3P
35KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			3Hp Aircon (Room 01)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
2	220			3Hp Aircon (Room 01)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
3	220			3Hp Aircon (Room 02)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
4	220			3Hp Aircon (Room 02)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
5	220			3Hp Aircon (Room 03)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
6	220			3Hp Aircon (Room 03)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
7	220			3Hp Aircon (Room 04)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
8	220			3Hp Aircon (Room 04)	17.00				3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
9	220			3Hp Aircon (Room 05)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
10	220			3Hp Aircon (Room 05)			17.00		3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
11	220			3Hp Aircon (Room 06)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
12	220			3Hp Aircon (Room 06)		17.00			3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² TW in 20mmØ PVC
13	220			Spare	17.00				3,910	40AT, 2P, Bolt-On	
14	220			Spare	17.00				3,910	40AT, 2P, Bolt-On	
15	220			Space							
16	220			Space							
				TOTAL	102.00	68.00	68.00	-	54,740		

I_t = 102.00 √ 3 + (17.00 * 0.25) = 180.92 Amperes
Feeder Line:
Use: 3 - 125mm² THHN + 1 - 30mm² TW (G) in 65mmØ IMC / Y125

PANEL: MPP
MAIN: 500AT, 600AF, 3P
65KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET LO	OUTLET CO	OTHER LOAD SERVICE	AMPERE LOAD AB	AMPERE LOAD BC	AMPERE LOAD CA	3Ø	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
1	220			15Hp Elevator Motor				42.00	16,712	125AT, 3P, MCCB	3 - 38mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC
2	220			15Hp Elevator Motor				42.00	16,712	125AT, 3P, MCCB	3 - 38mm² THHN + 1 - 8.0mm² TW (G) in 32mmØ IMC
3	220			40Hp ACCU 01				104.00	41,382	300AT, 3P, MCCB	3 - 150mm² THHN + 1 - 38mm² TW (G) in 80mmØ IMC
4	220			30Hp ACCU 02				80.00	31,832	200AT, 3P, MCCB	3 - 80mm² THHN + 1 - 22mm² TW (G) in 50mmØ IMC
5	220			30Hp ACCU 03				80.00	31,832	200AT, 3P, MCCB	3 - 80mm² THHN + 1 - 22mm² TW (G) in 50mmØ IMC
6	220			2 - 1.5Hp Booster Pump		20.00			4,600	60AT, 2P, BOLT-ON	2 - 8.0mm² THHN + 1 - 5.5mm² TW (G) in 25mmØ IMC
7	220			Space							
8	220			Space							
				TOTAL	-	20.00	-	348.00	143,066		

I_t = 20.00 * √3 + 348.00 = (104 * 0.25) = 408.64 Amperes
Feeder Line:
Use: 2 Sets of 3 - 125mm² THHN + 1 - 30mm² TW (G) in 65mmØ IMC / 2Y125

NTS

1 SCHEDULE OF LOADS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL
Ar. LUCILLE H. CHUA (uap, piep)
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR

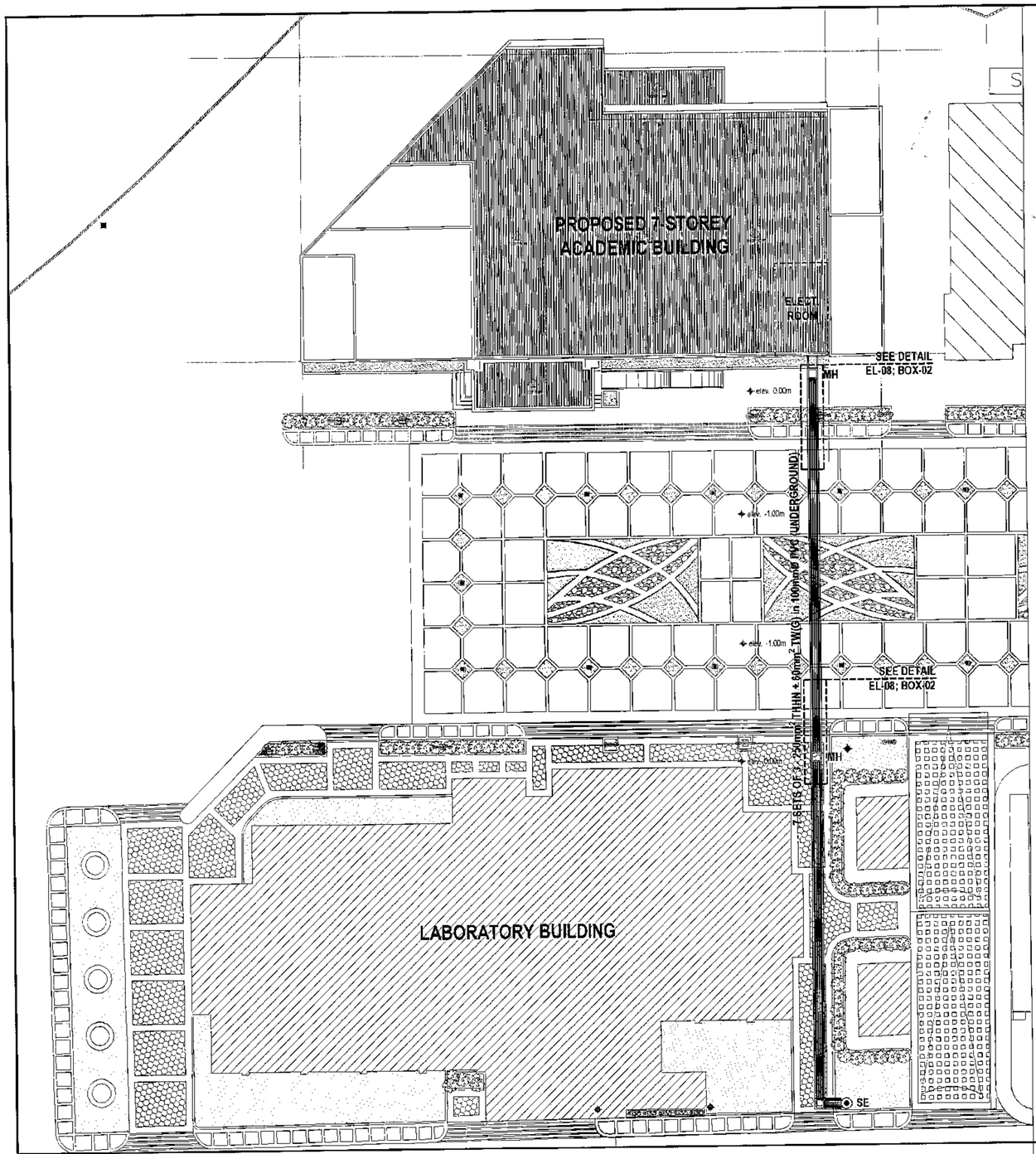
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SCHEDULE OF LOADS

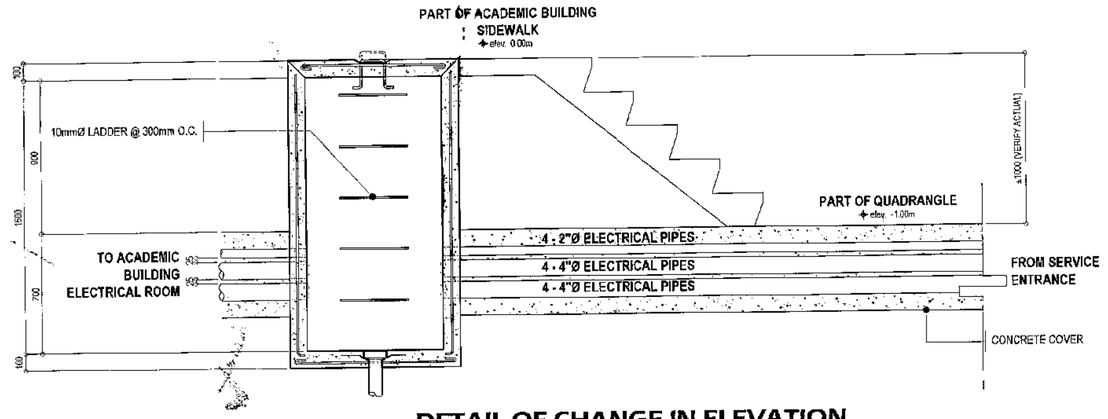
PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

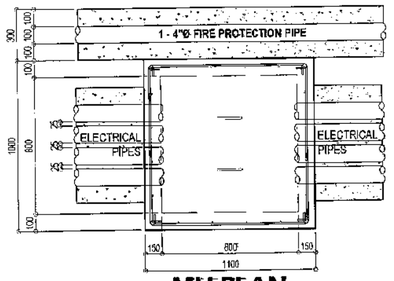
SHEET NO.: **EL-07**



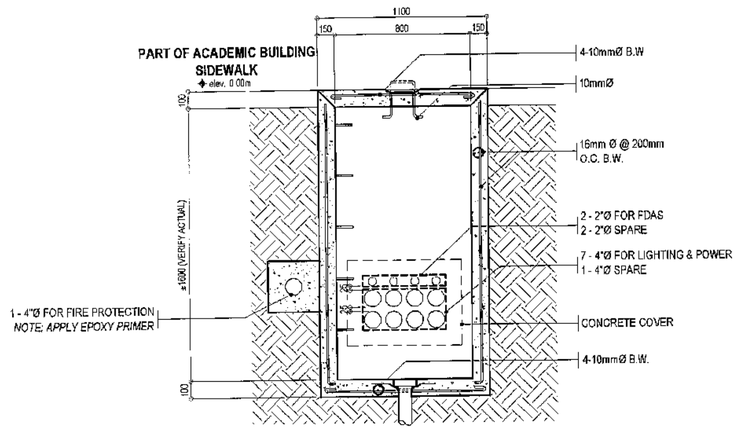
1 **SITE DEVELOPMENT PLAN** NOT TO SCALE



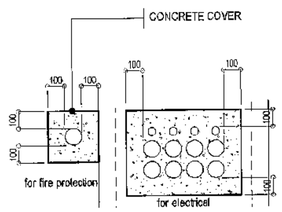
DETAIL OF CHANGE IN ELEVATION



MH PLAN



MH SECTION



2 **DETAIL OF MANHOLE FOR ELECTRICAL** SCALE 1:20 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
9/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, Fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

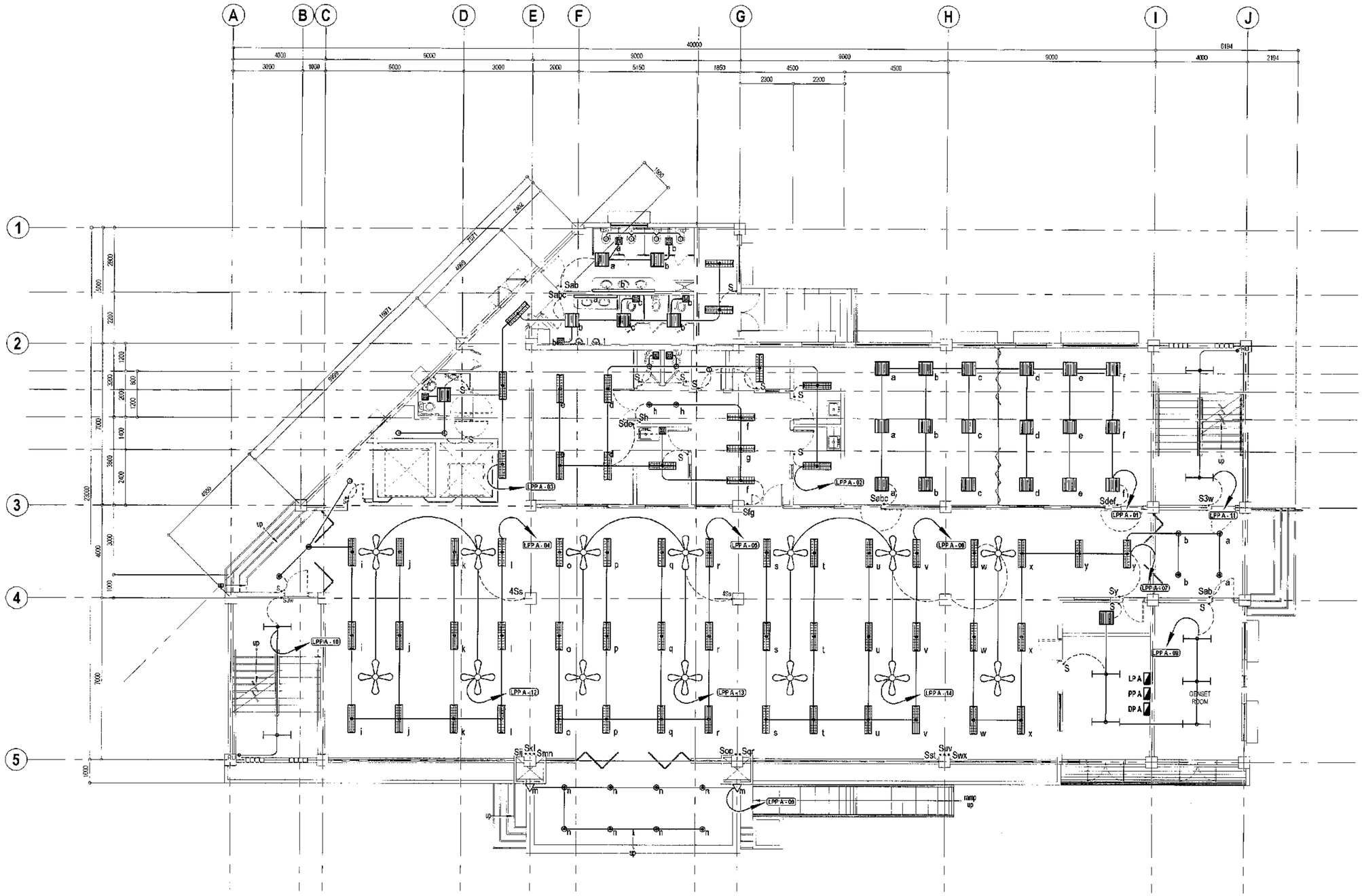
APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SITE DEVELOPMENT PLAN
DETAIL OF MANHOLE FOR ELECTRICAL

PROJECT NO.:	SHEET NO.:
DATE: November 2020	**EL-08**
DRAWN BY: C.S.T/J.L.P	
DESIGNED BY: Engr. A.R.Commador	
CHECKED BY: Engr. T.B.Infante Jr.	



1 GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC/CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

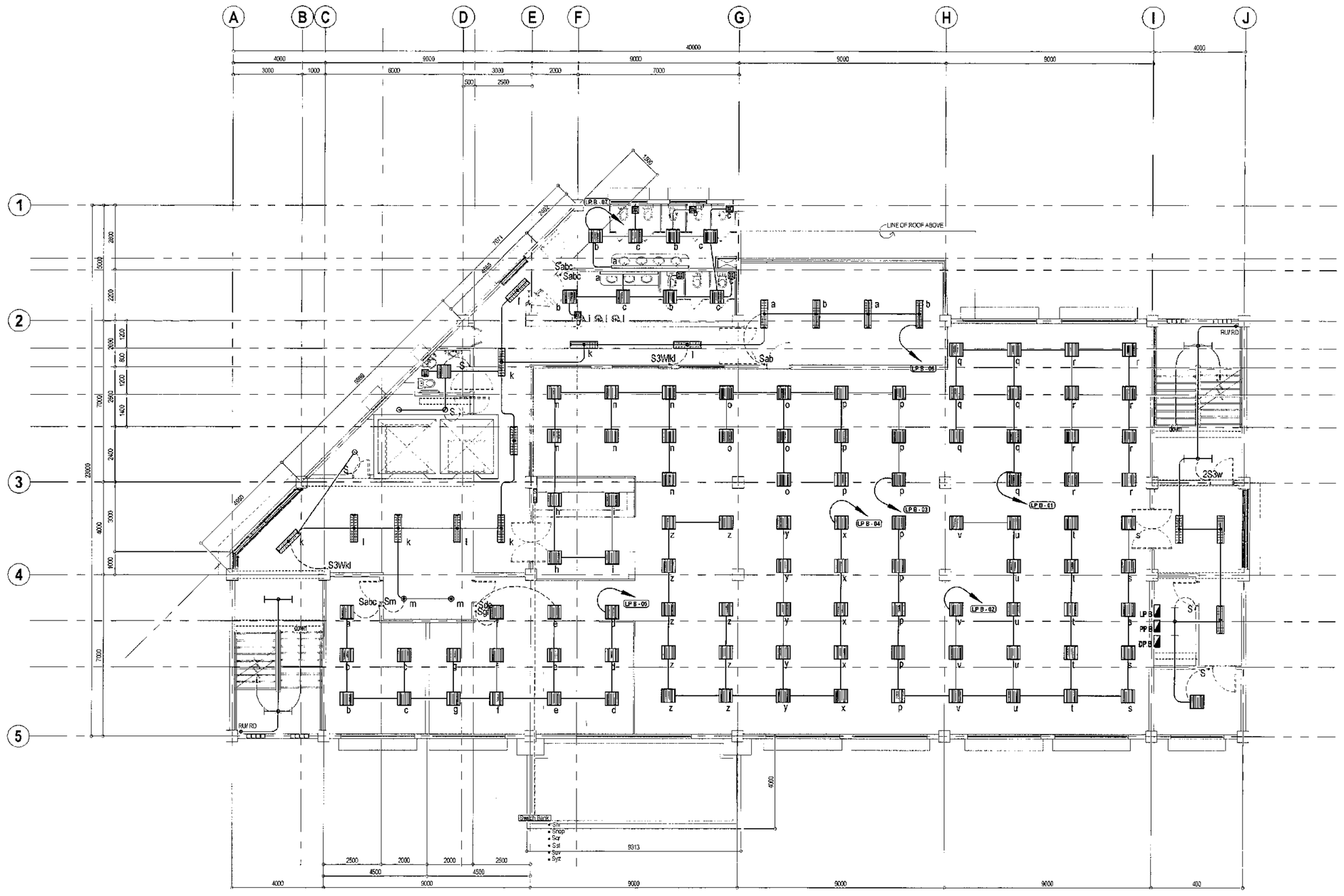
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
GROUND FLOOR LIGHTING LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.:
EL-09



1 SECOND FLOOR LIGHTING LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC,CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

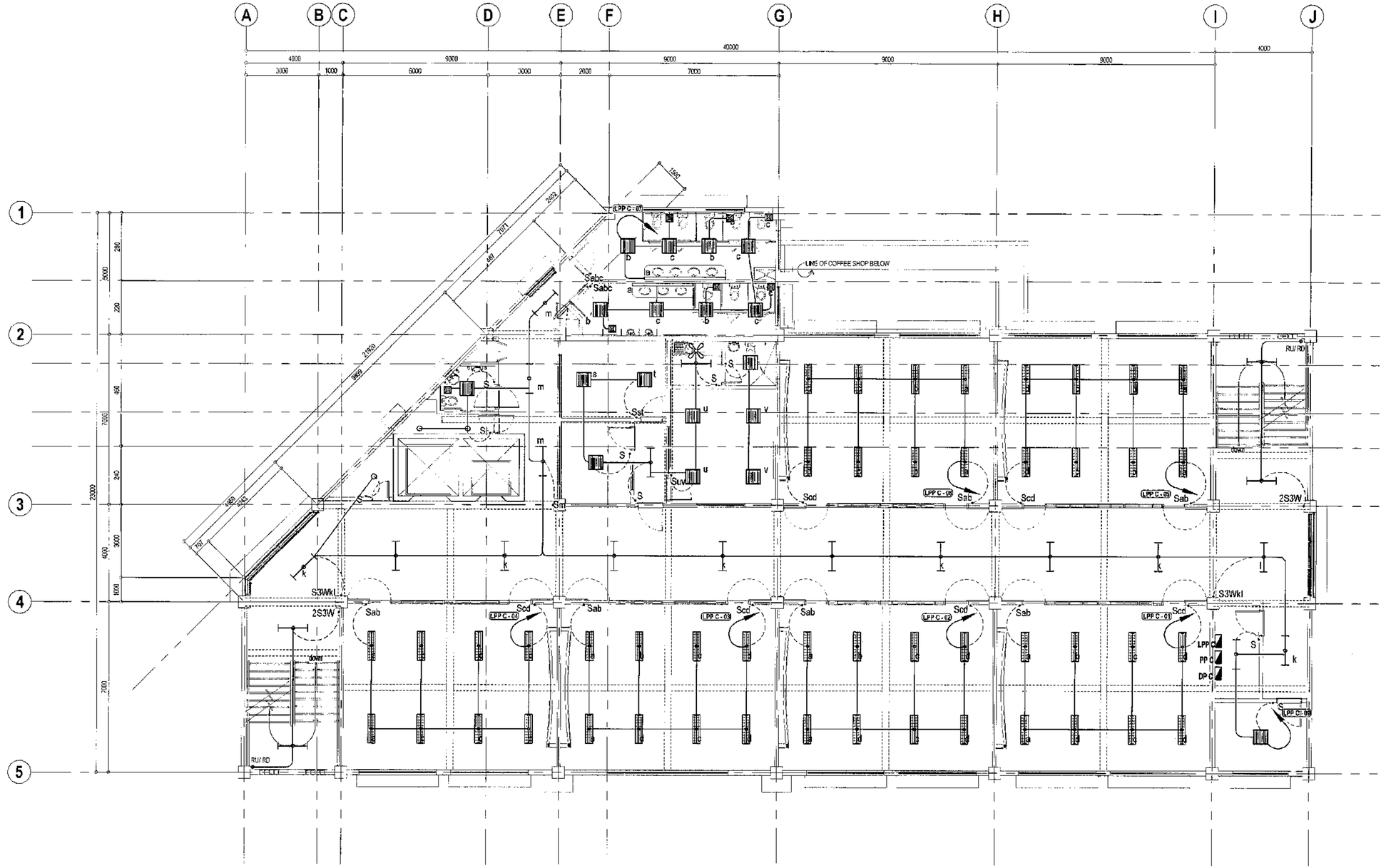
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SECOND FLOOR LIGHTING LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante

SHEET NO.:
EL-10



1 THIRD FLOOR LIGHTING LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, *tuap, plep*
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

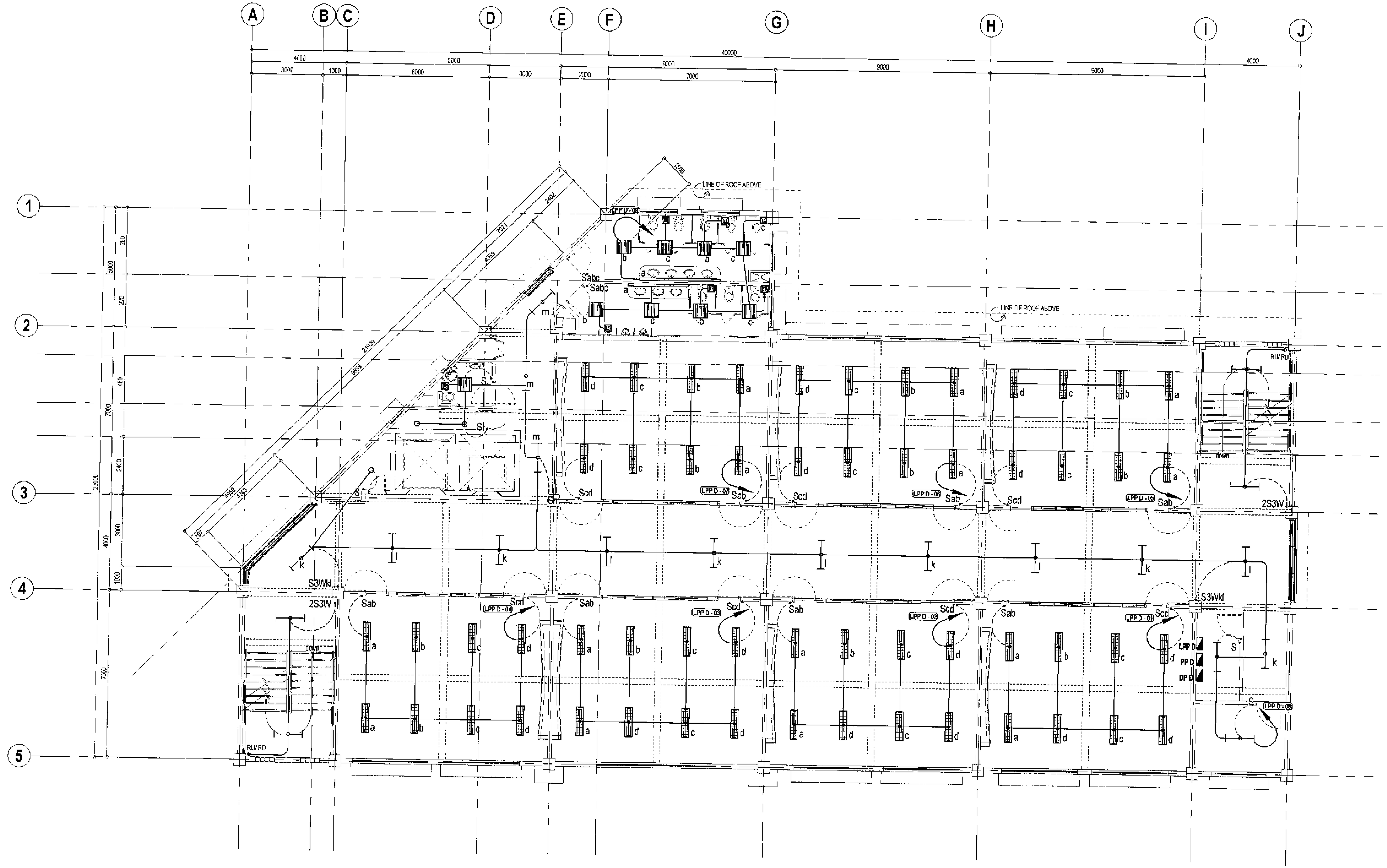
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
THIRD FLOOR LIGHTING LAYOUT

PROJECT NO.:

SHEET NO.: **EL-11**

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.



1 TYPICAL FOURTH TO SIXTH FLOOR LIGHTING LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC,CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

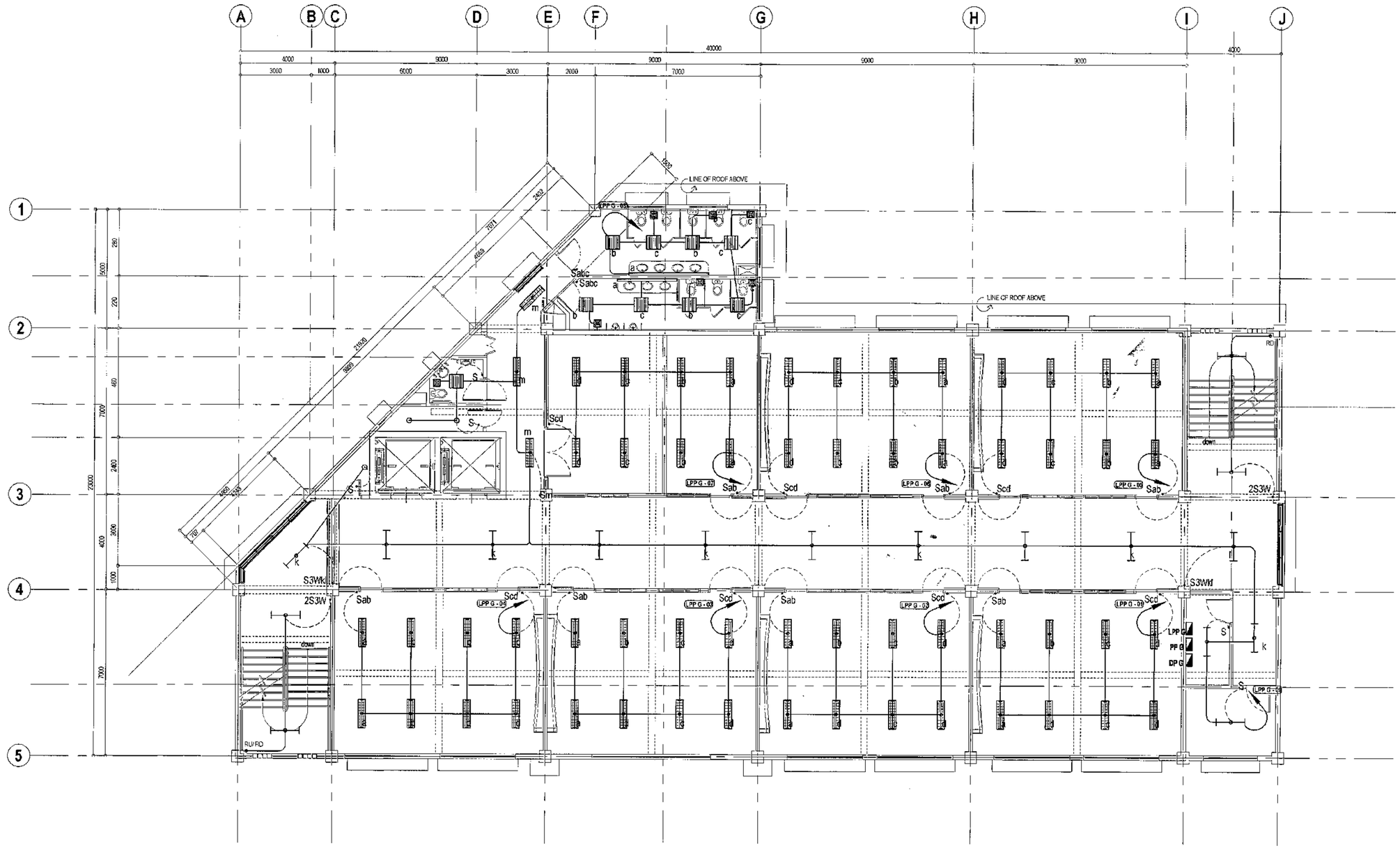
TYPICAL FOURTH TO SIXTH FLOOR LIGHTING LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.:

EL-12



1 SEVENTH FLOOR LIGHTING LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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Lungsod ng Quezon
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5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, *fuap, plep*
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC,CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

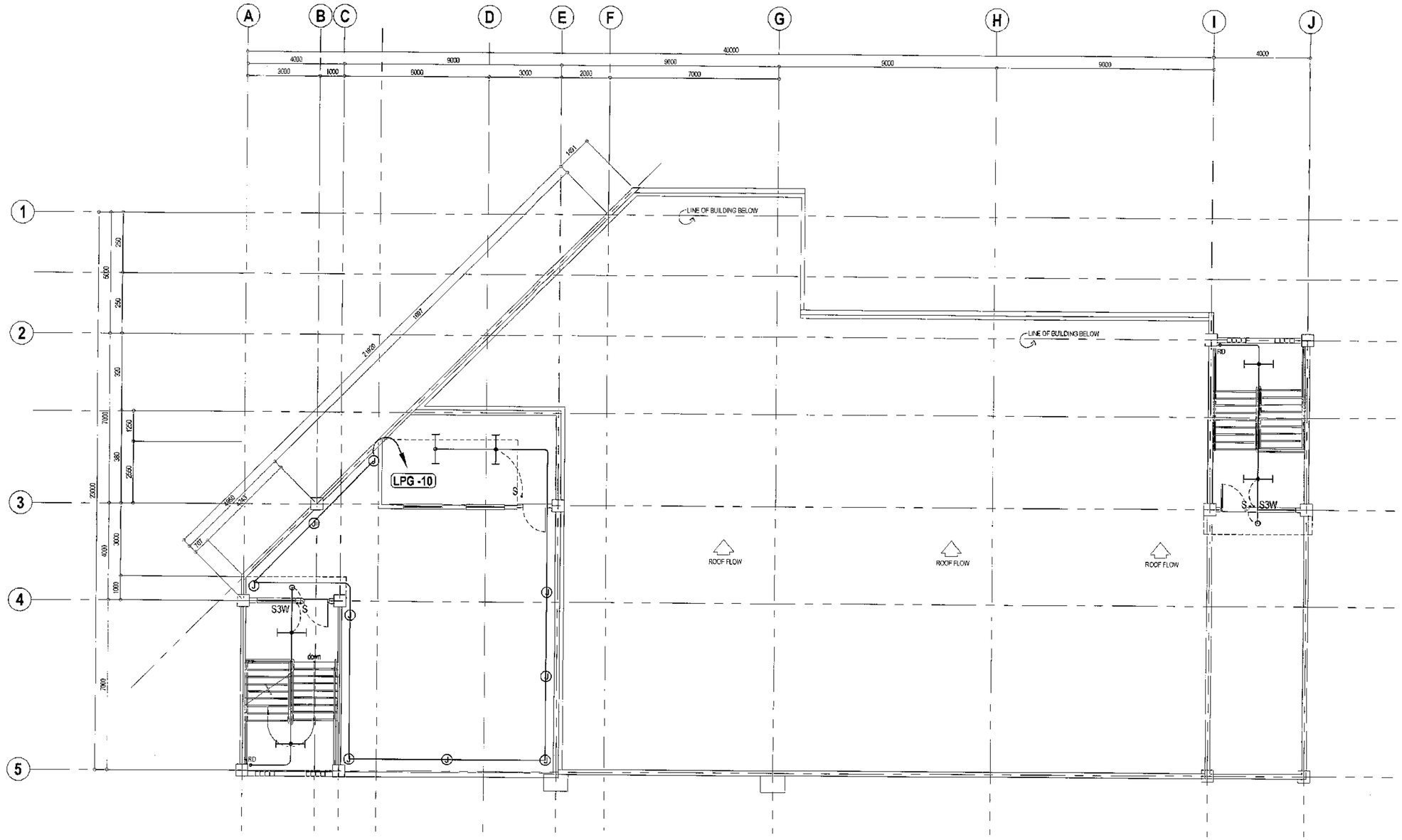
SEVENTH FLOOR LIGHTING LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.:

EL-13



1 ROOF DECK LIGHTING LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY:

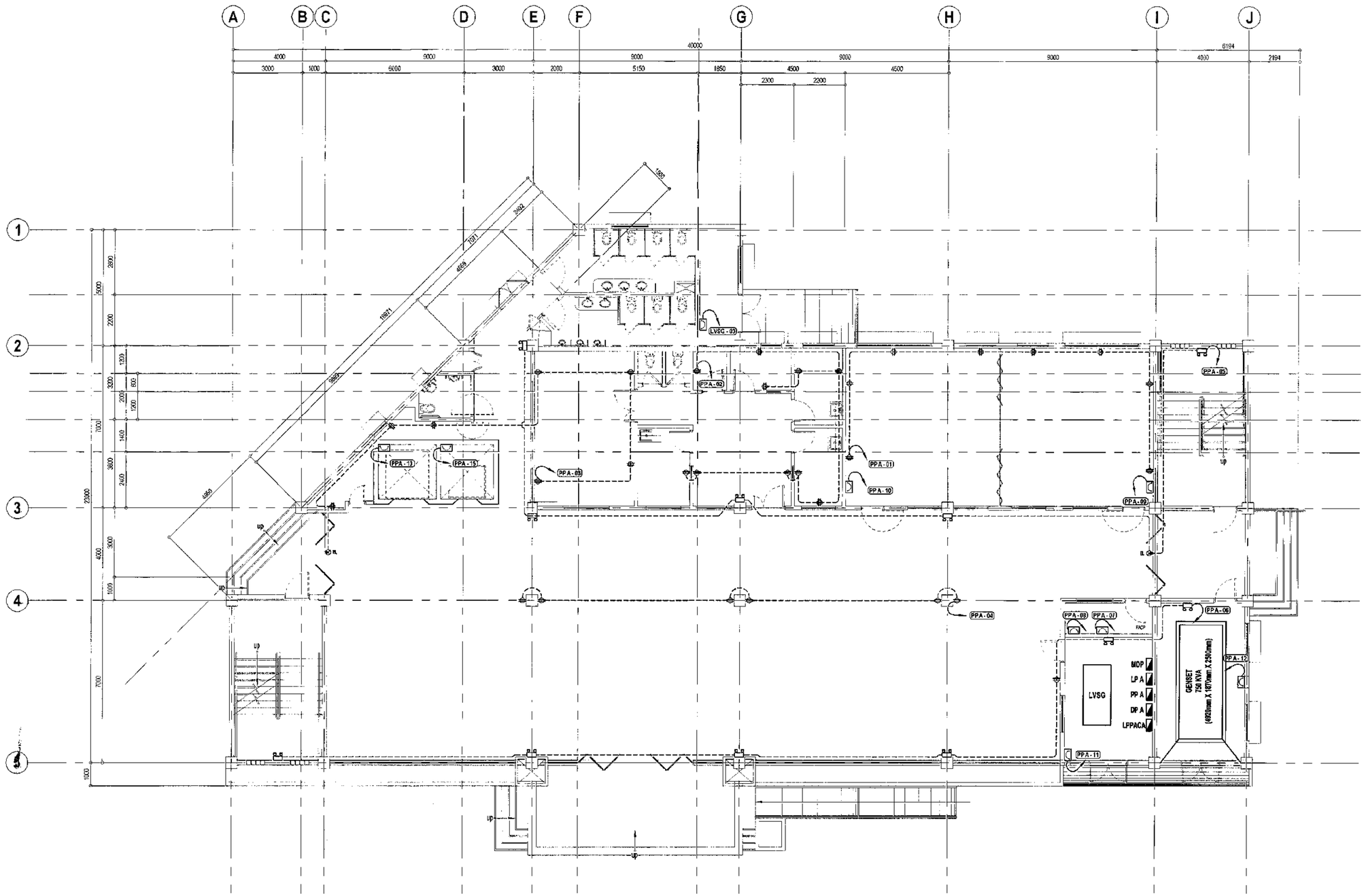
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
DECK LIGHTING LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante

SHEET NO.: **EL-14**



1 GROUND FLOOR POWER LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CMC CENTER - D (BRO. Bldg. QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, *fuap, piep*
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY :

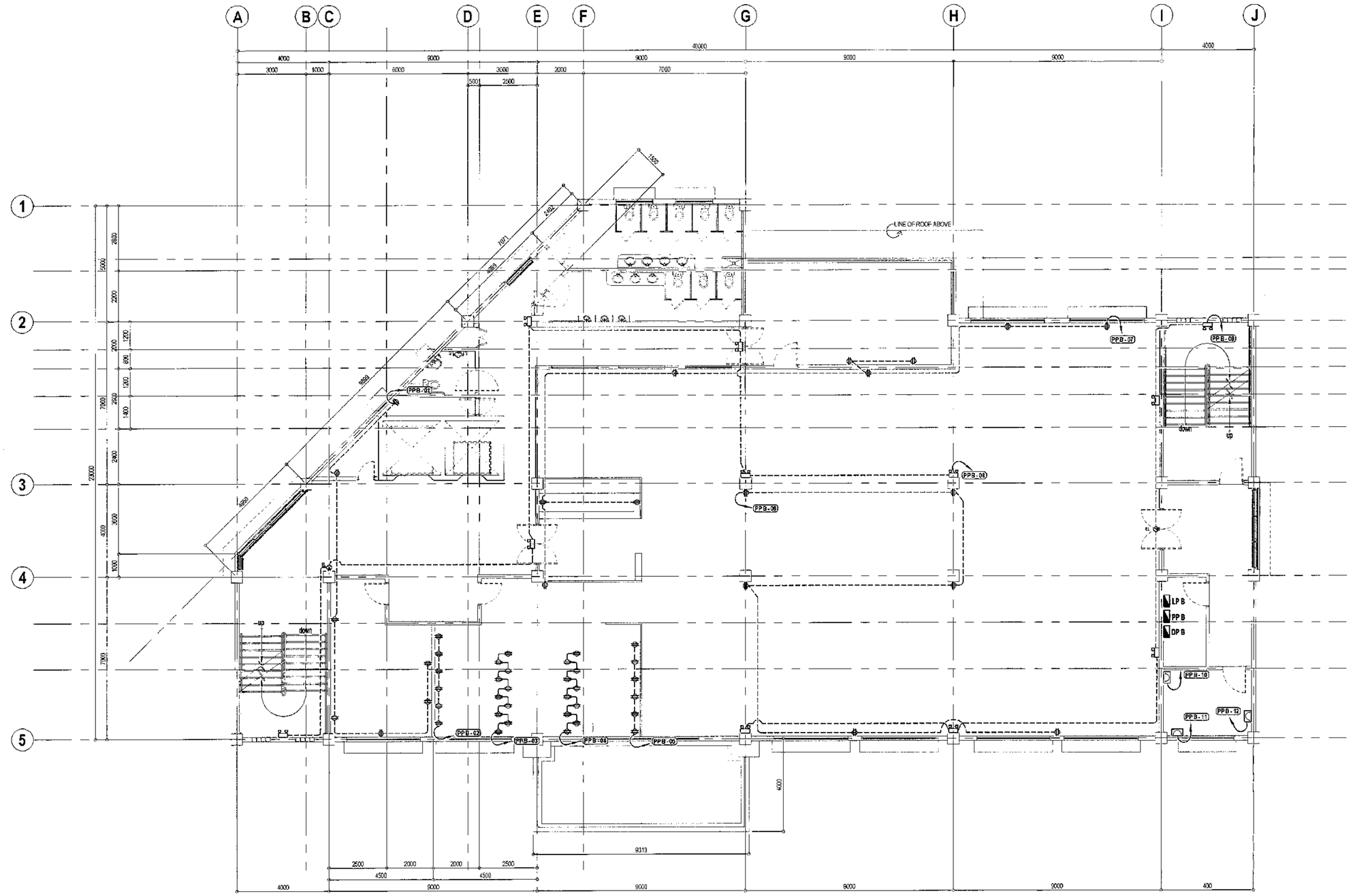
HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
GROUND FLOOR POWER LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.: **EL-15**



1 SECOND FLOOR POWER LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC,CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

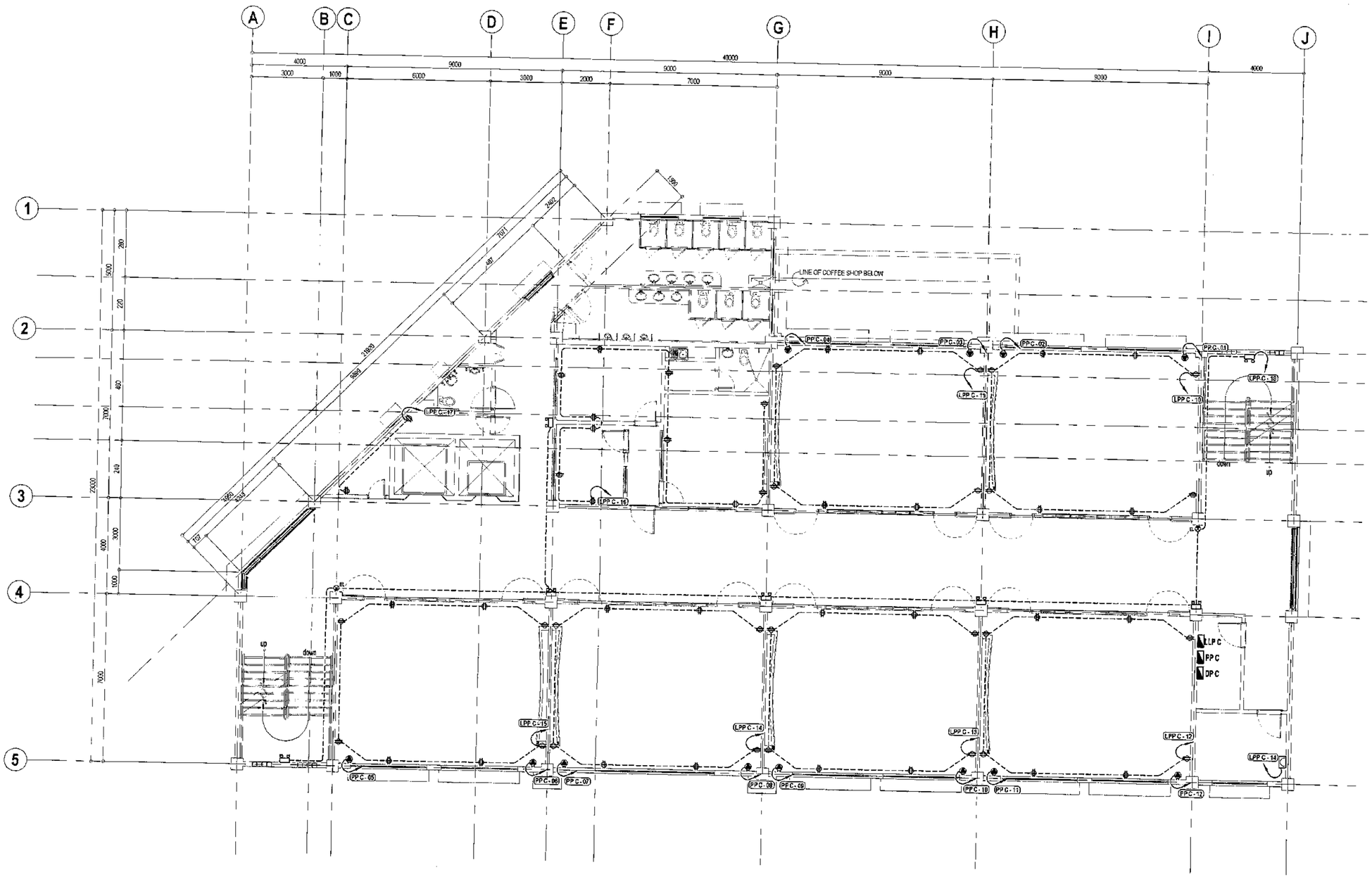
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SECOND FLOOR POWER LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gemmadc
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.:
EL-16



1 THIRD FLOOR POWER LAYOUT

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (GRO, Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR
Q.C.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

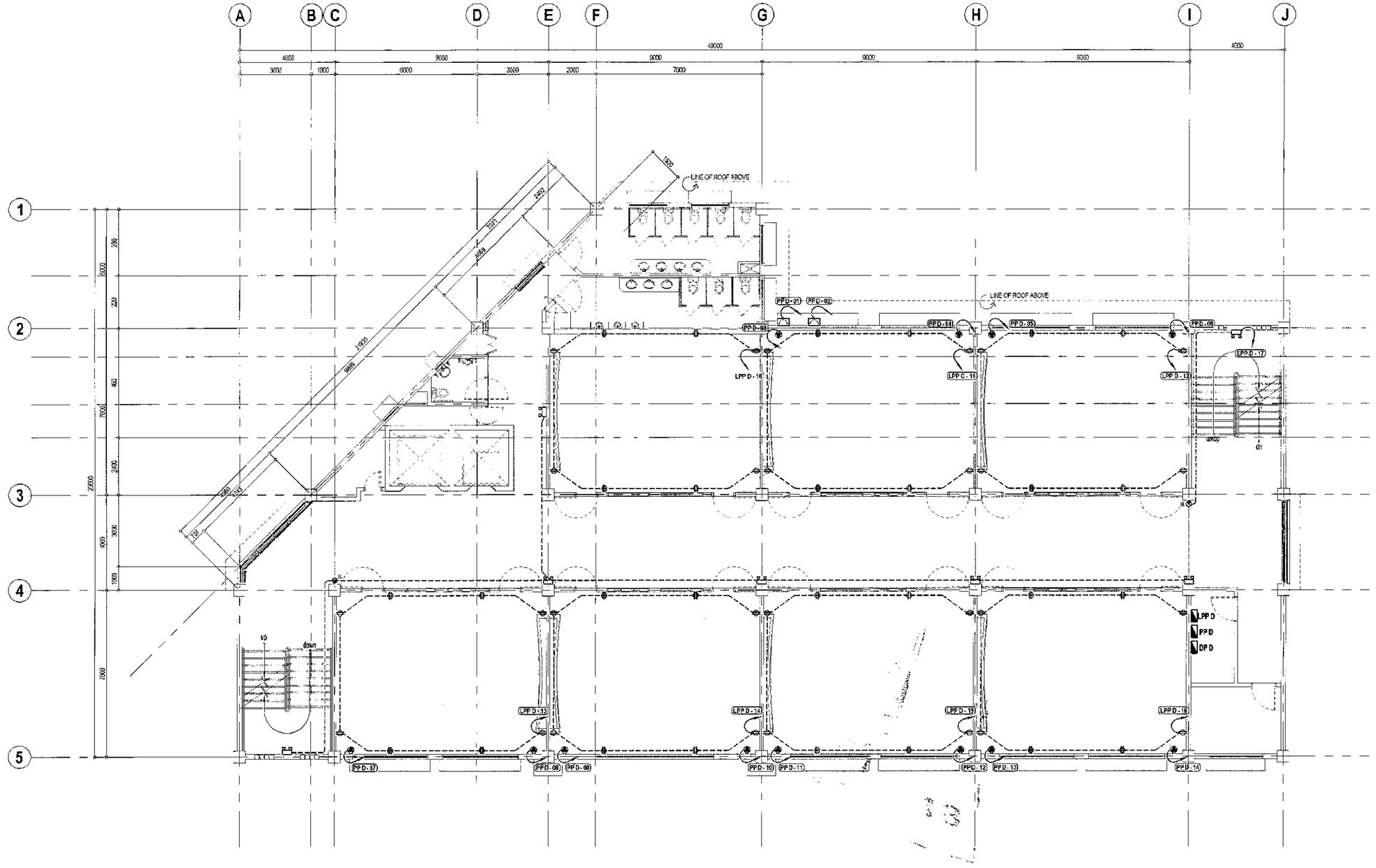
SHEET CONTENTS:
THIRD FLOOR POWER LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

PROJECT NO.:

SHEET NO.:
EL-17

DATE	November 2020
DRAWN BY	C.S.T.
DESIGNED BY	Engr. A.R.Gammad



1 TYPICAL FOURTH TO SIXTH FLOOR POWER LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, *fuap, piep*
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

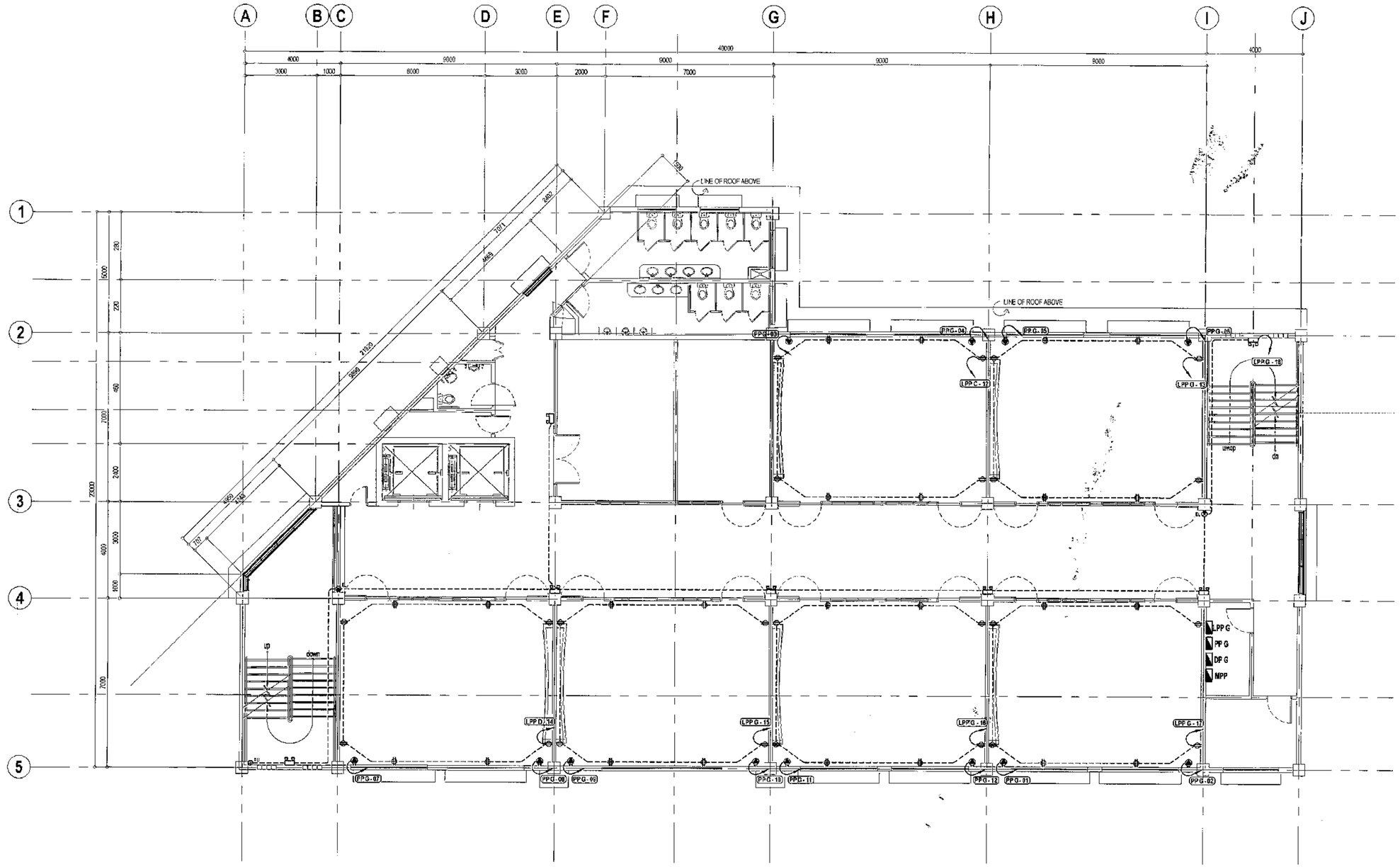
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
TYPICAL FOURTH TO SIXTH FLOOR POWER LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante

SHEET NO.:
EL-18



1 SEVENTH FLOOR POWER LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5TF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC/CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

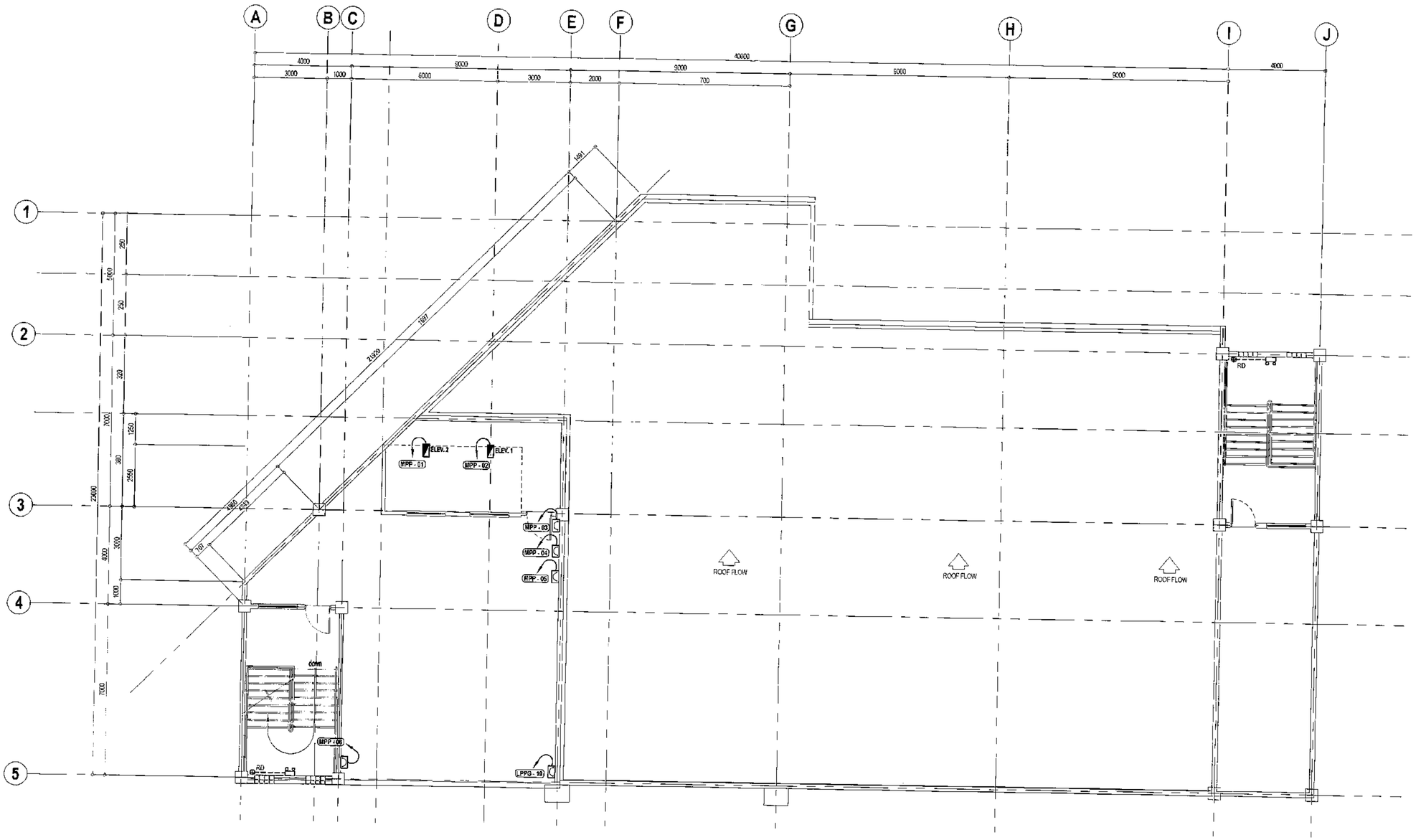
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SEVENTH FLOOR POWER LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.:
EL-19



1 ROOF DECK POWER LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, *rua, plep*
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC-CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

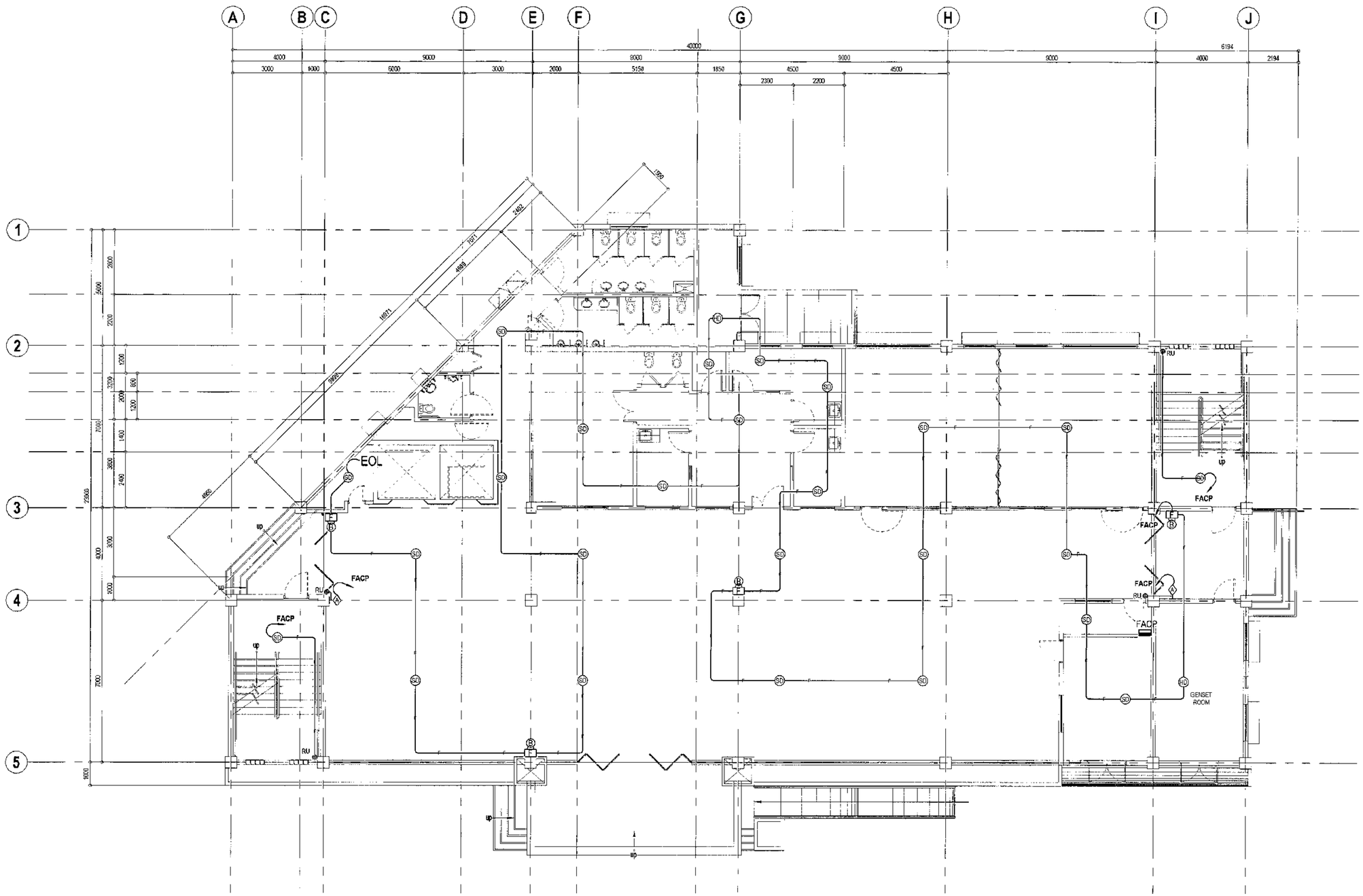
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN [7] STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
DECK POWER LAYOUT

PROJECT NO.:

DATE	October 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Infante Jr.

SHEET NO.:
EL-20



1 GROUND FLOOR FIRE DETECTION ALARM SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

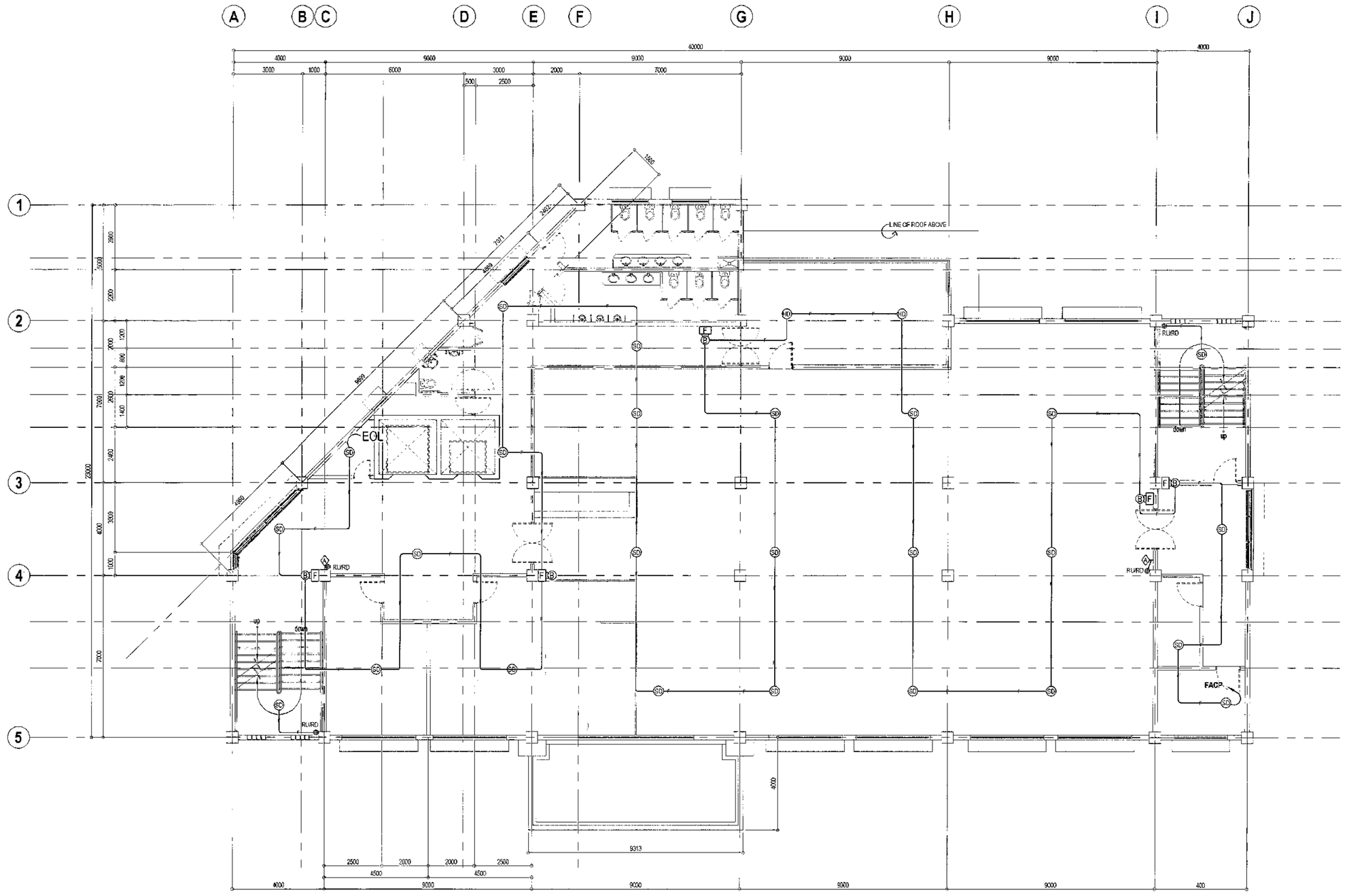
APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU; MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

PROJECT NO.:	
DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante

SHEET NO.: **EL-21**



1 SECOND FLOOR FIRE DETECTION ALARM SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
9/F CIVIC CENTER - D (BRO. BAG), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

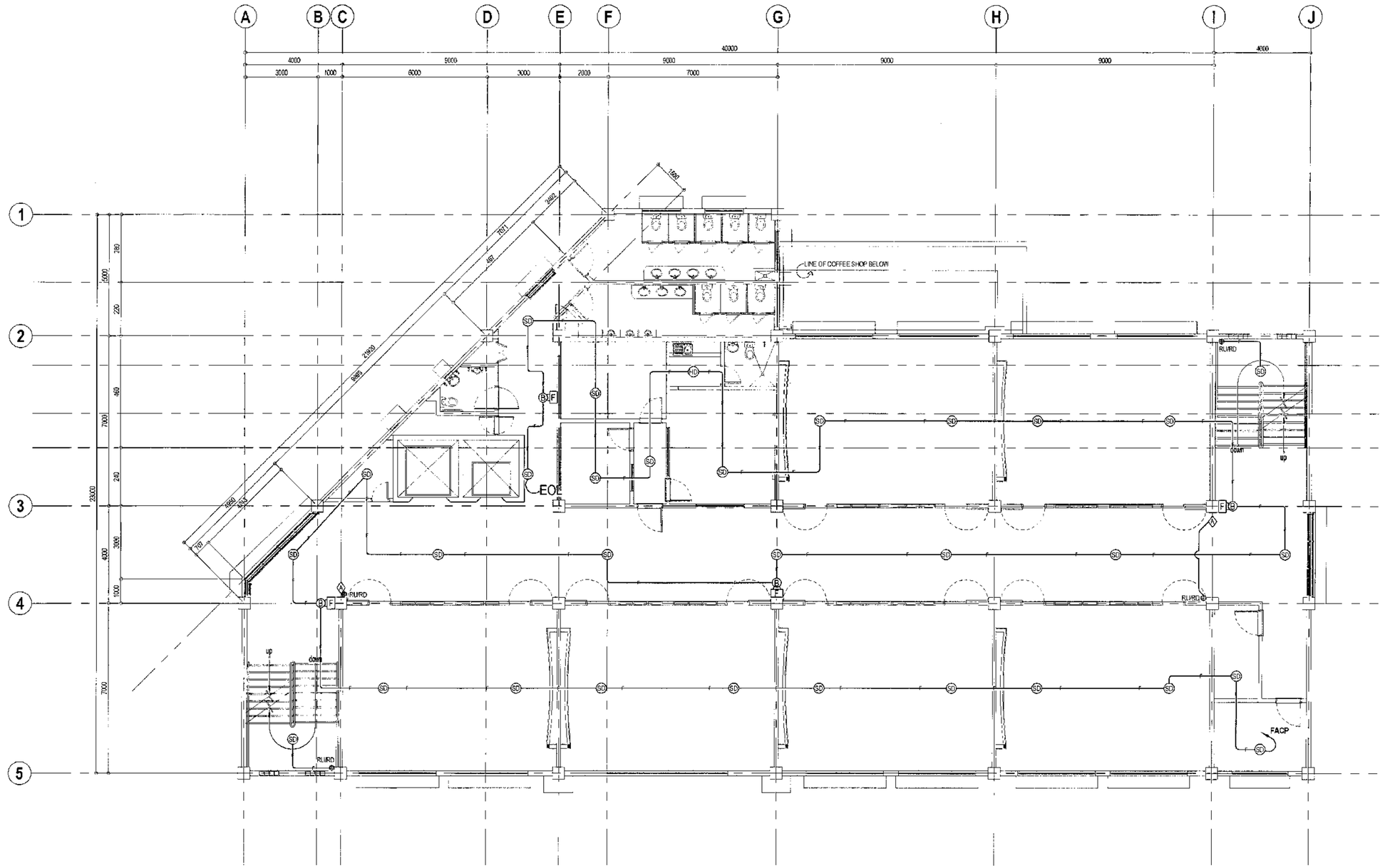
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SECOND FLOOR
FIRE DETECTION ALARM
SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:
EL-22



1 THIRD FLOOR FIRE DETECTION ALARM SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

Q.C.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)

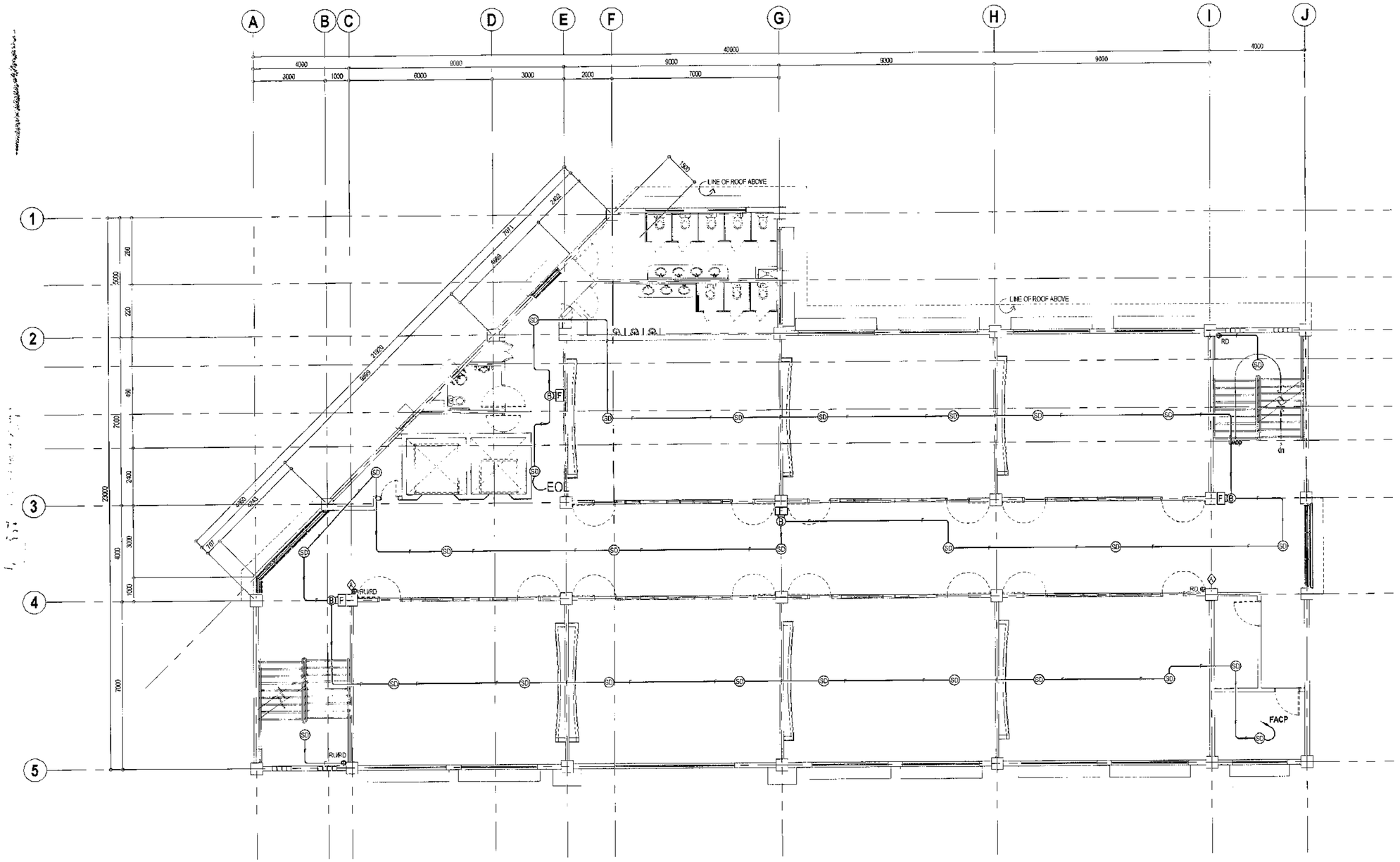
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
THIRD FLOOR
FIRE DETECTION ALARM
SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:
EL-23



1 TYPICAL FOURTH TO SIXTH FLOOR FIRE DETECTION ALARM SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

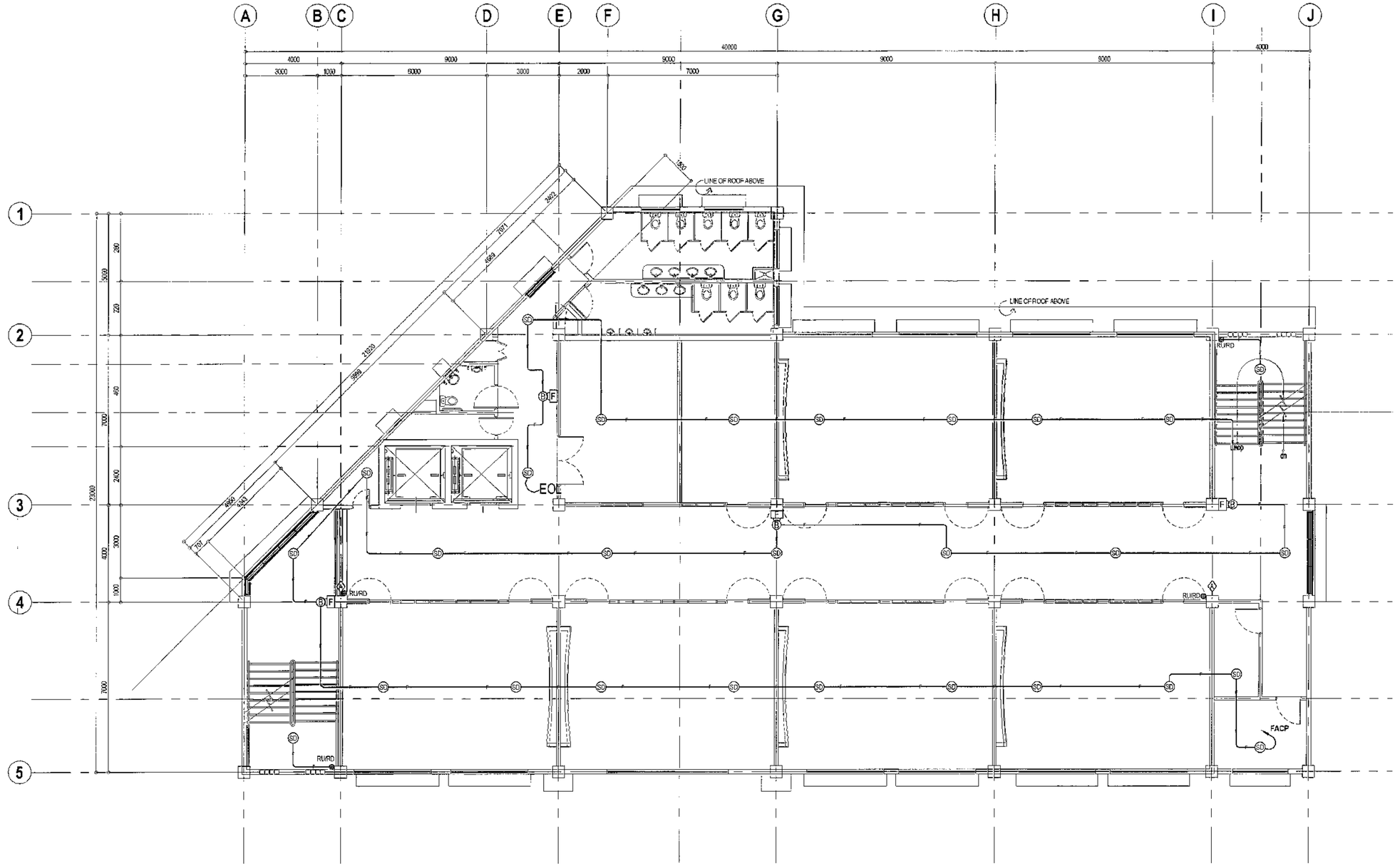
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU-LF MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
TYPICAL FOURTH TO SIXTH FLOOR FIRE DETECTION ALARM SYSTEM LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:
EL-24



1 SEVENTH FLOOR FIRE DETECTION ALARM SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SF CIVIC CENTER - D (BRGL Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

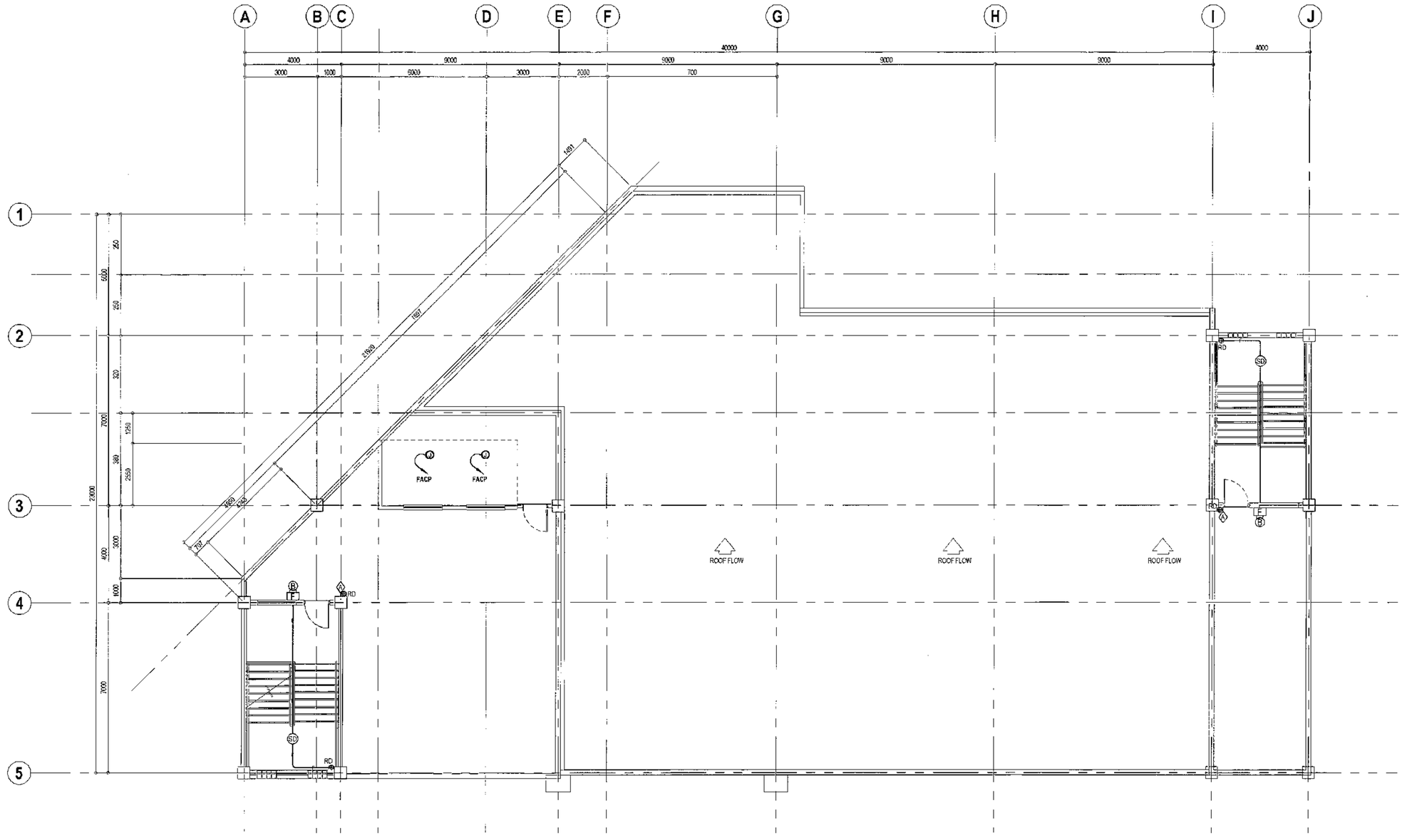
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SEVENTH FLOOR FIRE DETECTION ALARM SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:
EL-25



1 ROOF DECK FIRE DETECTION ALARM SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (SRO, Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR

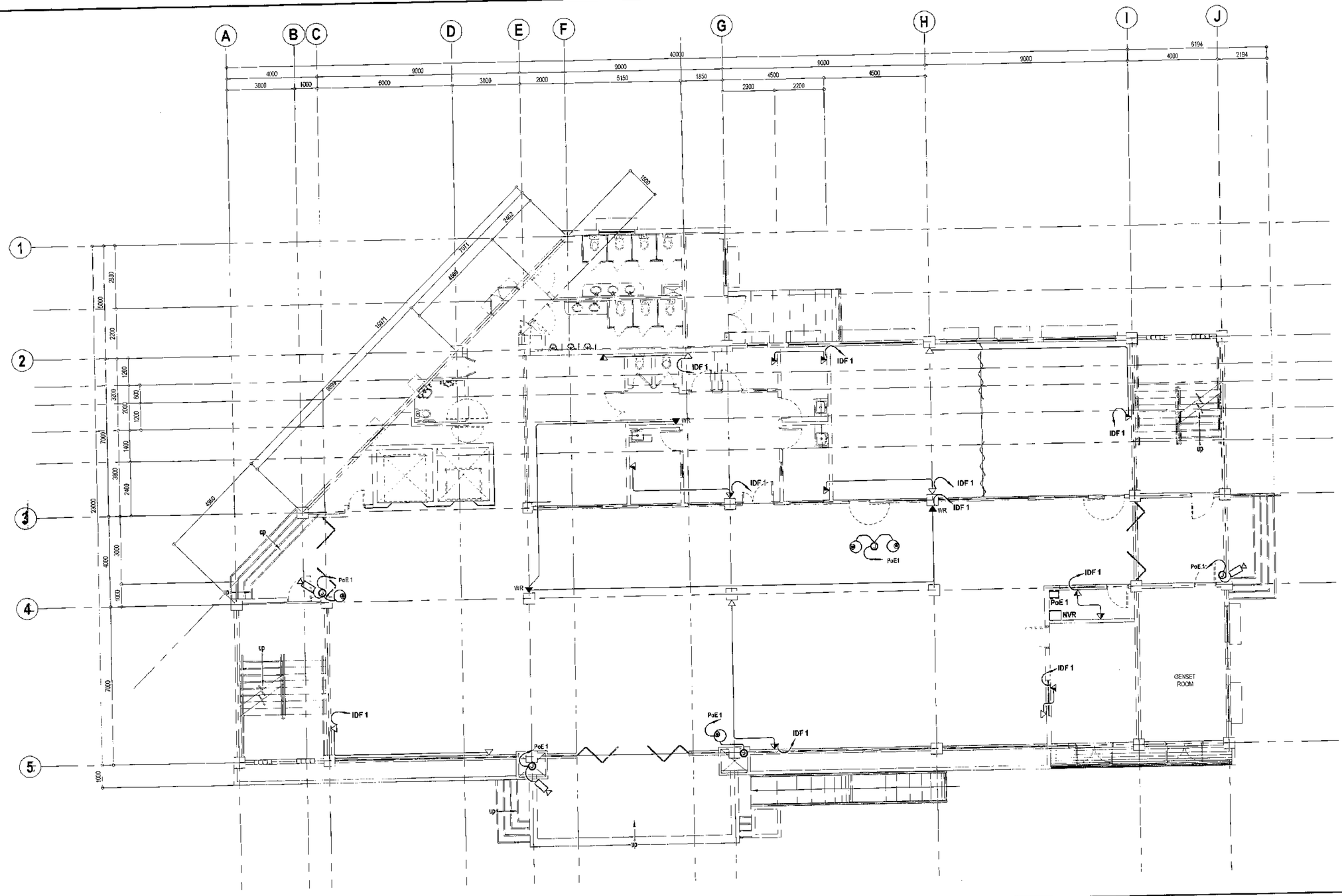
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
DECK FIRE DETECTION ALARM SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:
EL-26



SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

1 GROUND FLOOR VOICE, DATA AND C.C.T.V SYSTEM LAYOUT

Republika ng Pilipinas.
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SIP CIVIC CENTER - D (SRO, Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

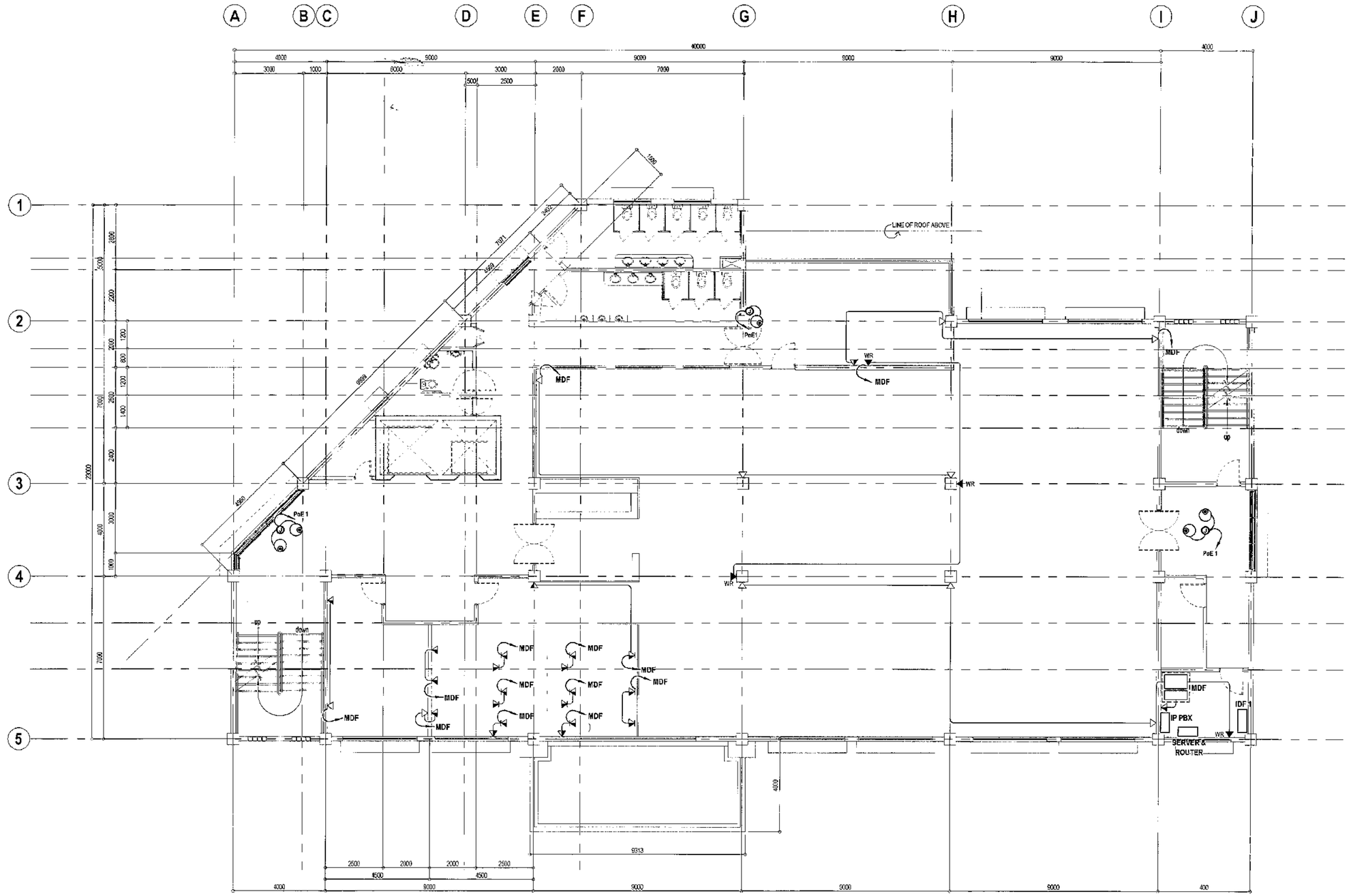
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ CCBU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
GROUND FLOOR
VOICE, DATA AND C.C.T.V
SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:
EL-27



1 SECOND FLOOR VOICE, DATA AND C.C.T.V SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CMC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCEU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

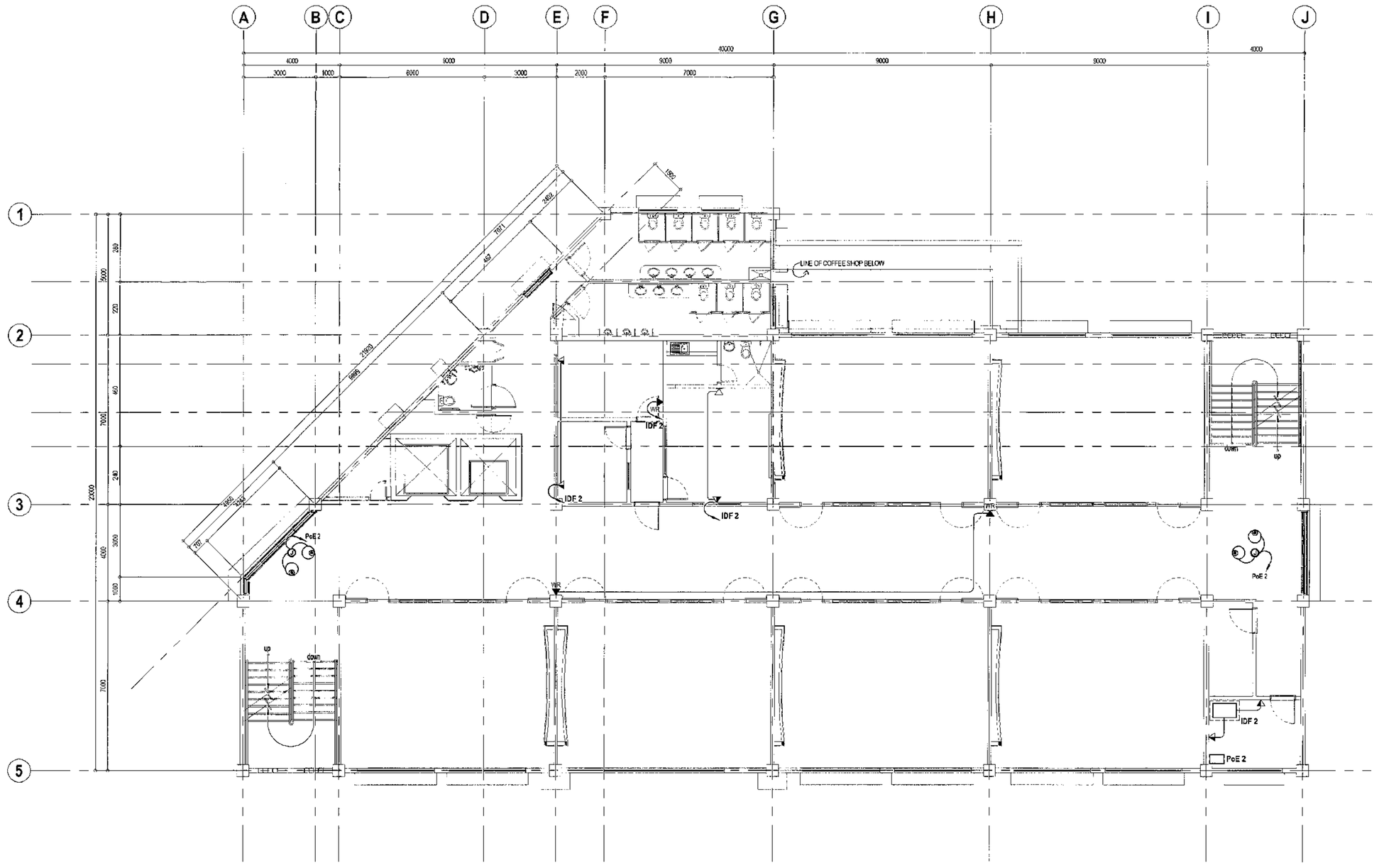
SECOND FLOOR
VOICE, DATA AND C.C.T.V
SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:

EL-28



1 THIRD FLOOR VOICE, DATA AND C.C.T.V SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. BAG), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVISO:
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

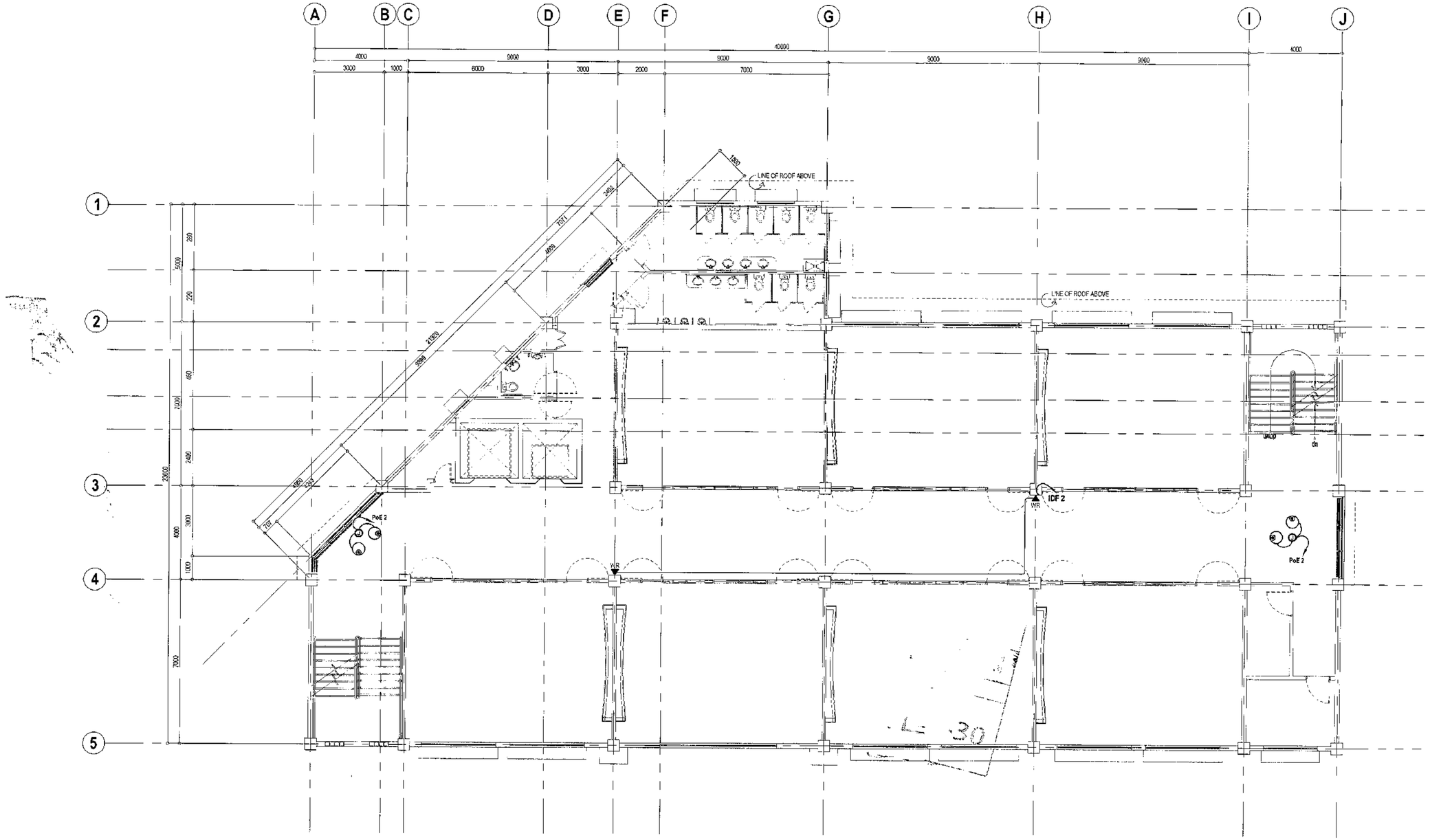
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
THIRD FLOOR
VOICE, DATA AND C.C.T.V
SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:
EL-29



1 TYPICAL FOURTH TO SIXTH FLOOR VOICE, DATA AND C.C.T.V SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D [BRO. Bldg], QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

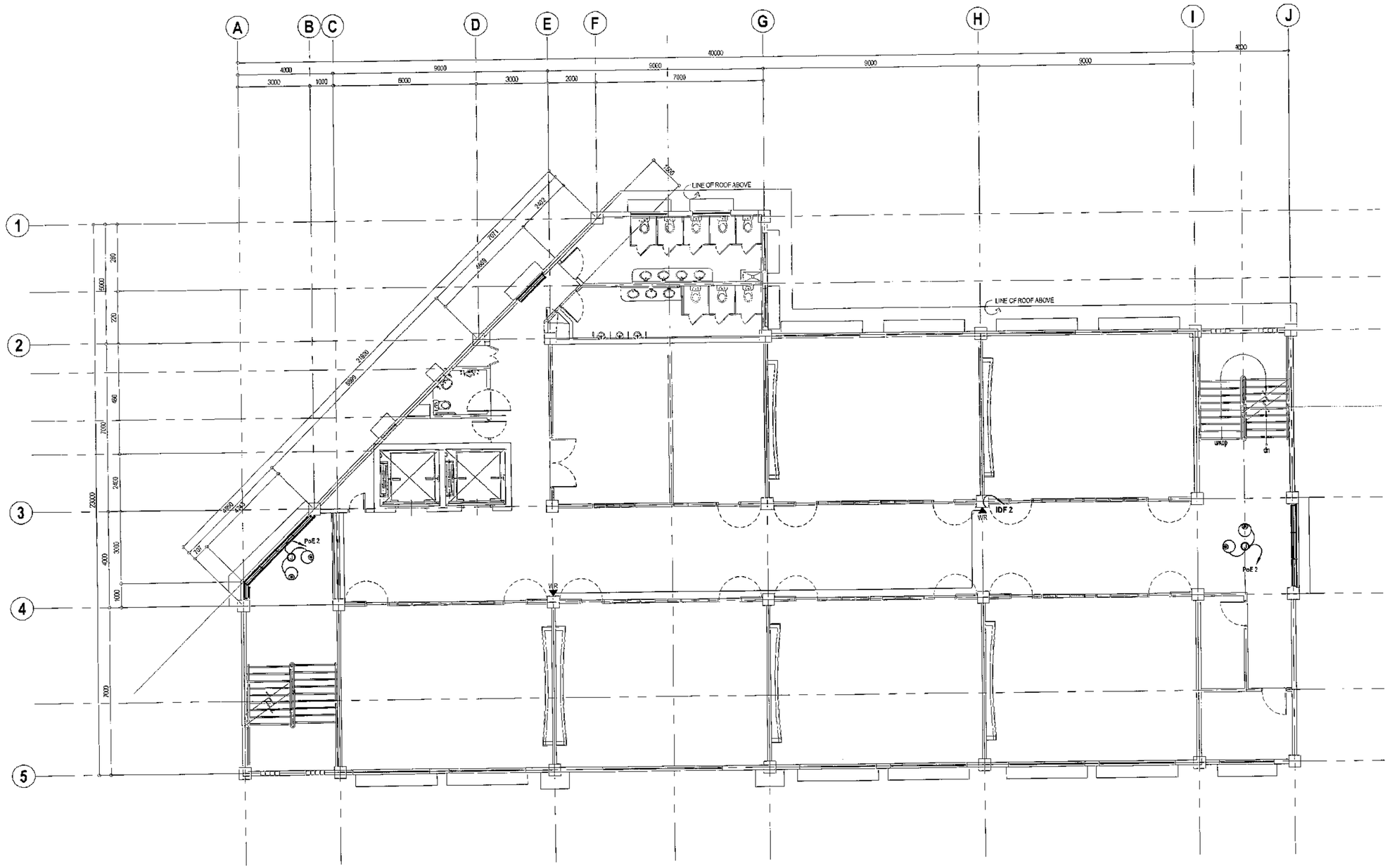
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
TYPICAL FOURTH TO SIXTH FLOOR VOICE, DATA AND C.C.T.V SYSTEM LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante

SHEET NO.: EL-30



1 SEVENTH FLOOR VOICE, DATA AND C.C.T.V SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. BK9), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR

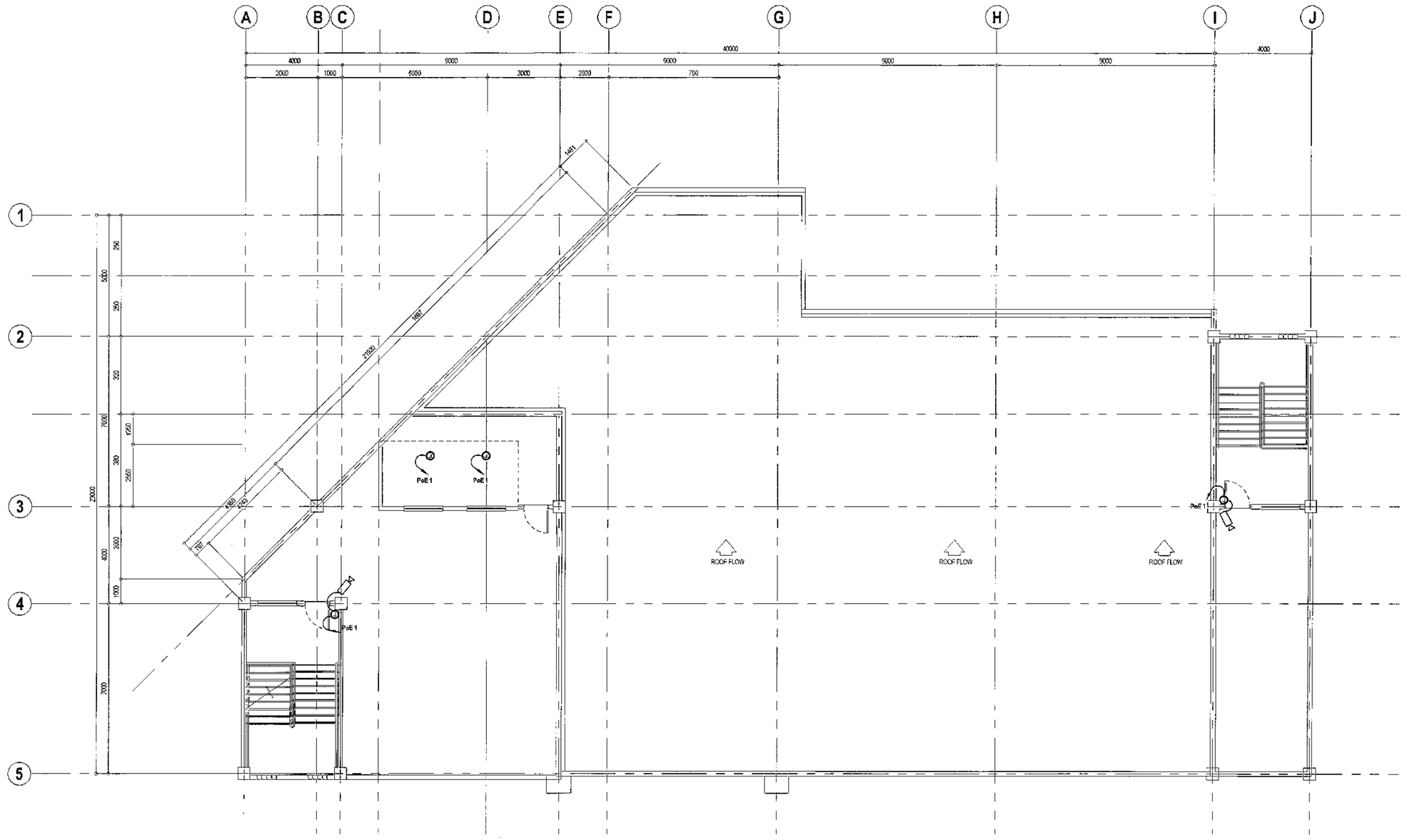
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCEU - MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SEVENTH FLOOR VOICE, DATA AND C.C.T.V SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. T. B. Infante Jr.

SHEET NO.:
EL-31



1 ROOF DECK C.C.T.V SYSTEM LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
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Engr. ISAGANI R. VERZOSA Jr.
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MAYOR

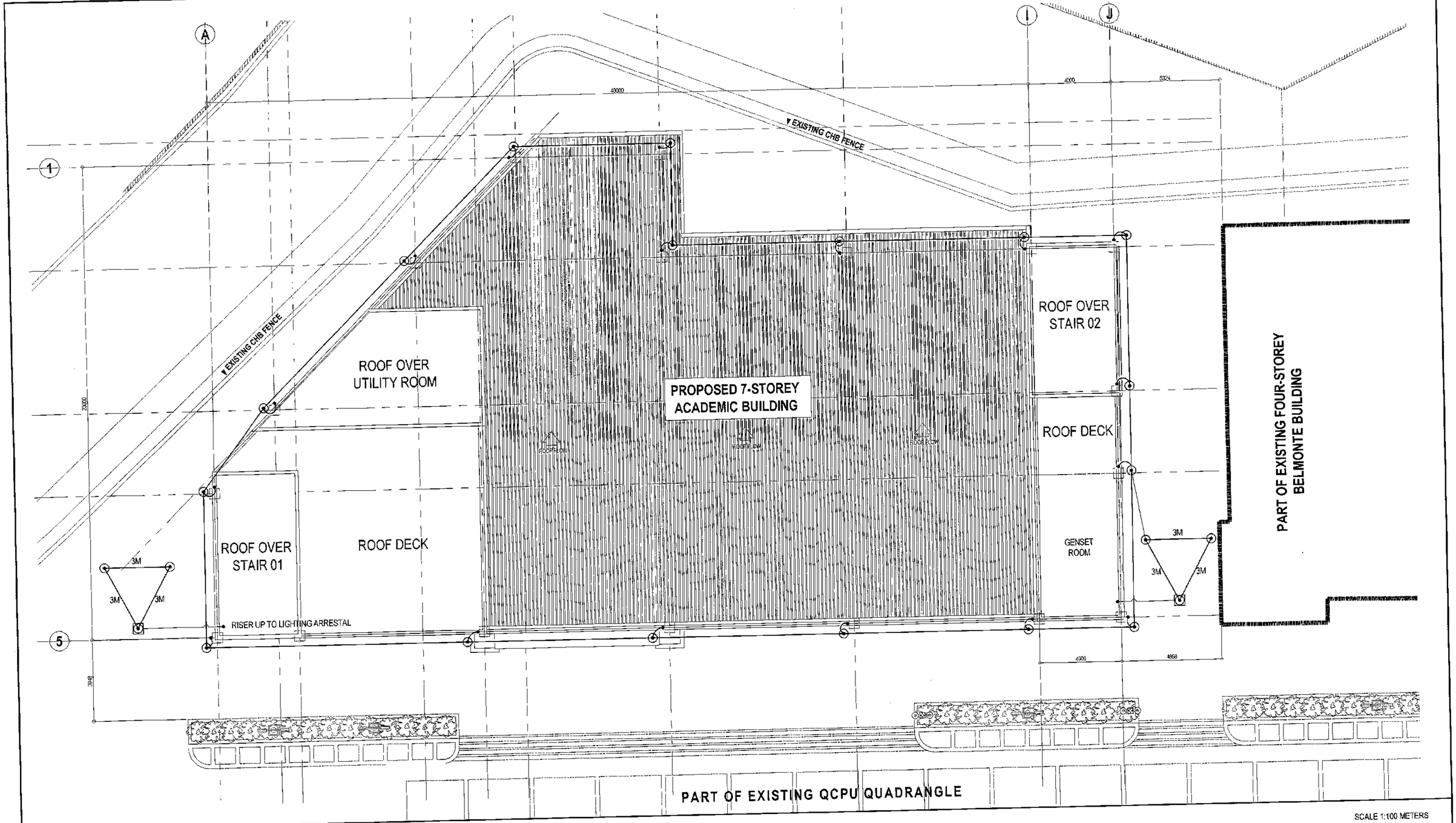
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCEA MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
ROOF DECK C.C.T.V SYSTEM LAYOUT

PROJECT NO.:

DATE	October 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Infante Jr.

SHEET NO.:
EL-32



SCALE 1:100 METERS

1 GROUNDING SYSTEM

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CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

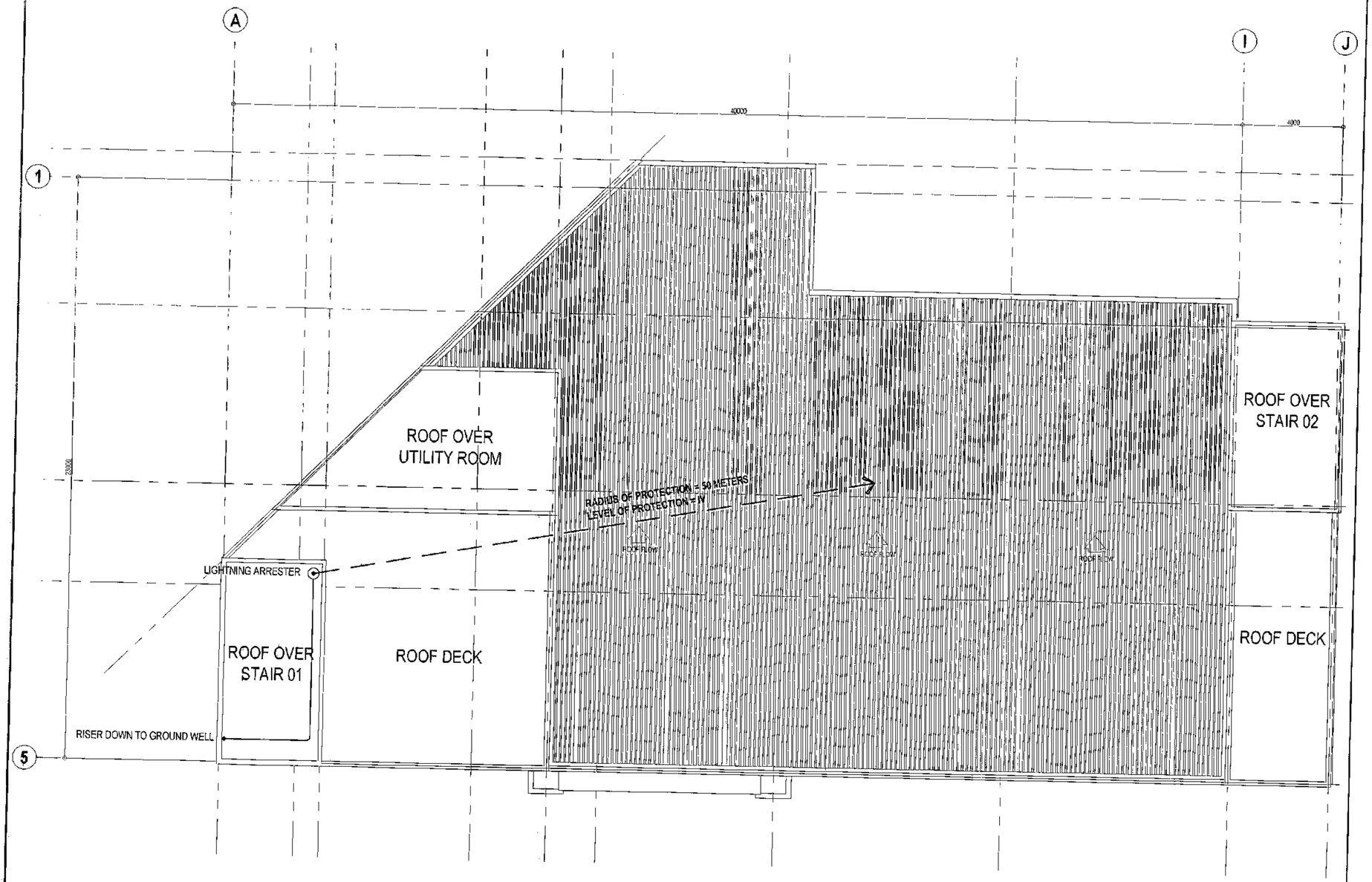
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

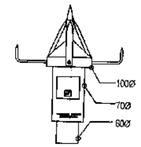
SHEET CONTENTS :
GROUNDING SYSTEM

PROJECT NO.:

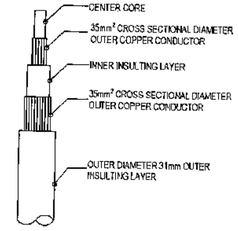
DATE	October 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gammad
CHECKED BY	Engr. T.B.Iñarito-Jr.

SHEET NO.:
EL-33

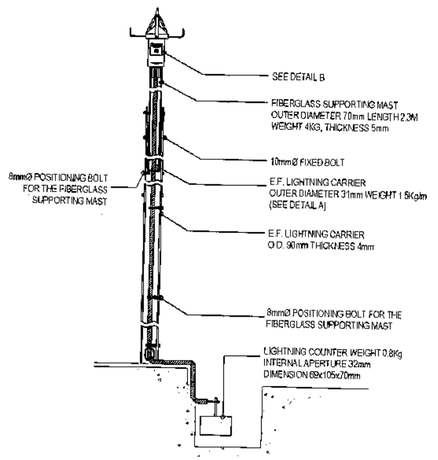




LIGHTNING TERMINAL DETAIL A



LIGHTNING CARRIER DETAIL B



1 LIGHTNING PROTECTION SYSTEM

SCALE 1:100 METERS

2 LIGHTNING ARRESTER DETAIL

NOT TO SCALE

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCEU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
LIGHTNING PROTECTION SYSTEM
LIGHTING ARRESTER DETAIL

PROJECT NO.:

SHEET NO.: **EL-34**

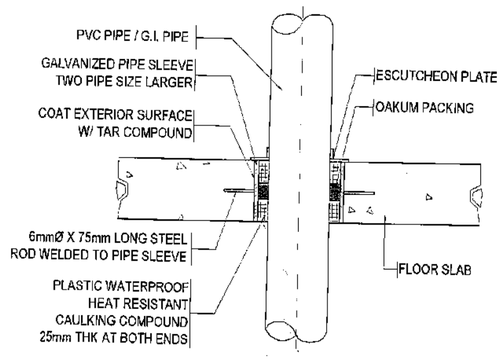
DATE	November 2020
DRAWN BY	C.S.T
DESIGNED BY	Engr. A.R.Gemmad
CHECKED BY	Engr. T.B.Infante Jr.

1. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PSME CODE AND THE RULES AND REGULATIONS OF QUEZON CITY.
2. THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS.
3. THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER TRADES.
4. ALL AIRCONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 50% RH.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURERS CATALOGUE, SPECIFICATIONS, SAMPLES, INCLUDING VIBRATION ISOLATORS BEFORE EXECUTION OF WORK.
6. ALL FLOOR SLAB MOUNTED VIBRATING EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS TO PREVENT VIBRATIONS AND NOISE TRANSMISSION.
7. EXHAUST FAN SHALL BE PROVIDED WITH SUITABLE FLEXIBLE CONNECTIONS TO DISCHARGE DUCT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AND COMMISSIONING OF THE WHOLE VENTILATION AND AIRCONDITIONING SYSTEM AND INSTALLATION.
9. ALL POWER WIRING SHALL BE ELECTRICAL AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL.
10. PROVIDE CONTROL WIRING FOR AIRCONDITIONING EQUIPMENT.
11. PROVIDE THERMOSTAT FOR ALL INDOOR UNITS / FAN COIL UNITS.
12. VERIFY LOCATION OF CONTROLLERS AND SWITCHES ON ELECTRICAL PLANS.
13. ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD /CB.
14. PROVIDE GUIDES, HANGERS, AND SUPPLEMENTAL STEEL SUPPORT FOR ALL PIPING, DUCTING AND EQUIPMENTS.
15. PROVIDE PIPE SLEEVES FOR ALL PIPING PASSING THRU BUILDING STRUCTURE.
16. ALL PIPE DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.

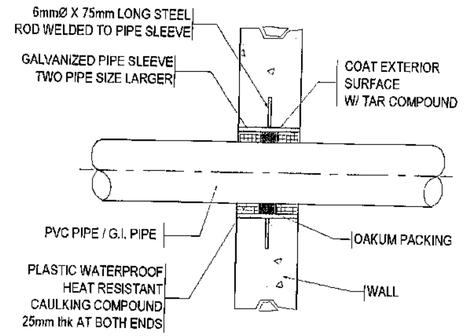
1 GENERAL NOTES

- EQUIPMENT DESIGNATION
- AIR COOLED CONDENSING UNIT
- FAN COIL UNIT
- RP — REFRIGERANT PIPING
- EXHAUST FAN
- C — ELBOW UP
- ELBOW DOWN
- m^2 - SQUARE METER
- ACCU - AIR-COOLED CONDENSING UNIT
- MSFCU - MULTI-SPLIT FAN COIL UNIT
- EF - EXHAUST FAN
- Ø - PHASE
- V - VOLTS
- HP - HORSEPOWER
- H - HERTZ
- W - WATTS
- CFm - CUBIC FEET PER MINUTE
- mm - MILLIMETER
- KCal/HR - KILO CALORIE PER HOUR
- RPM - REVOLUTION PER MINUTE

2 LEGENDS & SYMBOLS



PIPE SLEEVE THRU FLOOR



PIPE SLEEVE THRU WALL

3 PIPE SLEEVE DETAIL

NOT TO SCALE

INDOOR UNITS (MULTI-SPLIT FAN COIL UNITS)

DESIGNATION	LOCATION	QUANTITY	COOLING CAPACITY BTUH	POWER INPUT WATTS	CURRENT INPUT AMP	FAN MOTOR OUTPUT WATTS	CONDENSER FAN AIR FLOW RATE M³/MIN.	REFRIGERANT PIPE TO THE FIRST TOILET		ELECTRICAL SUPPLY			DRAIN PIPE MM	REMARKS
								LIQUID, MM	GAS, MM	VOLTS	PHASE	HERTZ		
MSFCU 1	GROUND FLOOR SECOND FLOOR	2 UNITS 12 UNITS	38,200.0	150.0	1.0	120.0	21 - 24 - 27 - 29	9.52Ø	15.88Ø	220	1Ø	60.0	32Ø	CEILING CASSETE TYPE 4-WAY, CONTRACTOR SUPPLY AND INSTALL
MSFCU 2	GROUND FLOOR SECOND FLOOR	2 UNITS 2 UNITS	24,200.0	50.0	0.36	50.0	14 - 15 - 16 - 18	9.52Ø	15.88Ø	220	1Ø	60.0	32Ø	
MSFCU 3	THIRD FLOOR	2 UNITS	15,400.0	40.0	0.29	50.0	12 - 13 - 14 - 16	6.35Ø	12.7Ø	220	1Ø	60.0	32Ø	
MSFCU 4	SECOND FLOOR THIRD FLOOR	1 UNIT 1 UNIT	9,800.0	40.0	0.20	17.0	4.9 - 5.2 - 5.6 - 5.9	6.35Ø	12.7Ø	220	1Ø	60.0	16Ø	WALL MOUNTED TYPE CONTRACTOR SUPPLY AND INSTALL
MSFCU 5	GROUND FLOOR	3 UNITS	7,500.0	40.0	0.20	17.0	4.9 - 5.2 - 5.6 - 5.9	6.35Ø	12.7Ø	220	1Ø	60.0	16Ø	
MSFCU 6	GROUND FLOOR	2 UNITS	5,800.0	40.0	0.20	17.0	4.9 - 5.0 - 5.2 - 5.3	6.35Ø	12.7Ø	220	1Ø	60.0	16Ø	

OUTDOOR UNITS (MULTI-SPLIT AIR COOLED CONDENSING UNITS)

DESIGNATION	LOCATION	QUANTITY	COOLING CAPACITY BTUH	POWER INPUT KW	CURRENT INPUT AMP	REFRIGERANT PIPE TO THE FIRST JOINT		ELECTRICAL SUPPLY			COMPRESSOR MOTOR OUTPUT KW	FAN MOTOR OUTPUT WATTS	CONDENSER FAN AIR FLOW RATE M³/MIN.	REMARKS
						LIQUID, MM	GAS, MM	VOLTS	PHASE	HERTZ				
ACCU 1	ROOF DECK	1 ASSEMBLY	276,100.0	24.47	41.3 - 39.2 - 37.8	19.05Ø	34.93Ø	230	3Ø	60.0	8.1 - 12.4	920 - 920	175 - 175	STARTING METHOD SHALL BE INVERTER
ACCU 2	ROOF DECK	1 ASSEMBLY	259,300.0	22.47	37.9 - 36.0 - 34.7	19.05Ø	34.93Ø	230	3Ø	60.0	6.9 - 12.4	920 - 920	175 - 175	STARTING METHOD SHALL BE INVERTER
ACCU 3	ROOF DECK	1 ASSEMBLY	212,900.0	15.84	33.2 - 31.5 - 30.4	15.88Ø	28.58Ø	230	3Ø	60.0	4.8 - 4.8 - 4.8	660 - 440	195 - 155	STARTING METHOD SHALL BE INVERTER

SPLIT TYPE AIR-CONDITIONER - AIR-COOLED CONDENSING UNITS

DESIGNATION		LOCATION	QUANTITY	COOLING CAPACITY BTUH	AIR CIRCULATION		TOTAL INPUT KW	CURRENT A	ELECTRICAL SUPPLY			REFRIGERANT PIPE		DRAIN PIPE mm	REMARKS
OUTDOOR	INDOOR				INDOOR, cum	OUTDOOR, cum			VOLTS	PHASE	HERTZ	GAS, cum	LIQUID, cum		
SAC 1	SAC 1	FOURTH TO SIXTH FLOOR	6 SETS	28,000	20 - 28	95.0	2.94	13.2	220.0	3Ø	60.0	19.05	9.52	32	FAN COIL UNIT SHALL BE WALL MOUNTED TYPE. CONTRACTOR SUPPLY AND INSTALL

WINDOW-TYPE AIRCONDITIONERS

DESIGNATION	LOCATION	QUANTITY	HP	COOLING CAPACITY KJ/HR	POWER CONSUMPTION WATTS	OPERATING SYSTEM AMPS	AIR CIRCULATION cmm	ELECTRICAL SUPPLY			REMARKS
								VOLTS	PHASE	HERTZ	
WAC 1	THIRD TO SEVENTH FLOOR	50UNITS	2.5	25,500.0	2,660.0	8.4	14.5	220.0	1Ø	60.0	IT SHALL BE EQUIPPED W/ WASHABLE FILTER, ON/OFF PROG. TIMER AND W/ REMOTE CONTROL
WAC 2	THIRD FLOOR	1 UNIT	0.75	7,420.0	645.0	4.2	7.2	220.0	1Ø	60.0	

EXHAUST FAN

DESIGNATION	LOCATION	QUANTITY	TYPE	AIR VOLUME cmh	HEAD Pa	MOTOR INPUT W	ELECTRICAL SUPPLY			REMARKS
							VOLTS	PHASE	HERTZ	
EF 1	GROUND TO SEVENTH FLOOR	66 UNITS	AXIAL FAN DUCTLESS	120-180	-	22	220.0	1Ø	60.0	UNIT SHALL BE CASSETTE TYPE OPENING, EASY TO CLEAN AND INSTALL. TOP OR SIDE DISCHARGED DUCT CONNECTION W/ REVERSE FLOW PREVENTION SHUTTER.
EF 2	GROUND FLOOR	2 UNITS	WALL MOUNTED AXIAL EXHAUST FAN	1260	50.0	46 - 52	220.0	1Ø	60.0	HIGH STATIC PRESSURE, LOW NOISE OPERATION

CEILING FAN

DESIGNATION	LOCATION	QUANTITY	TYPE	CAPACITY m^3/sec	HEAD Pa	POWER INPUT WATTS	ELECTRICAL SUPPLY			REMARKS
							VOLTS	PHASE	HERTZ	
CF 1	GROUND FLOOR	14 UNITS	CEILING MOUNTED	0.50	350.00	100.00	220.0	1Ø	60.0	CONTRACTOR SUPPLY AND INSTALL

4 EQUIPMENT SCHEDULE

NOT TO SCALE

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC- CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

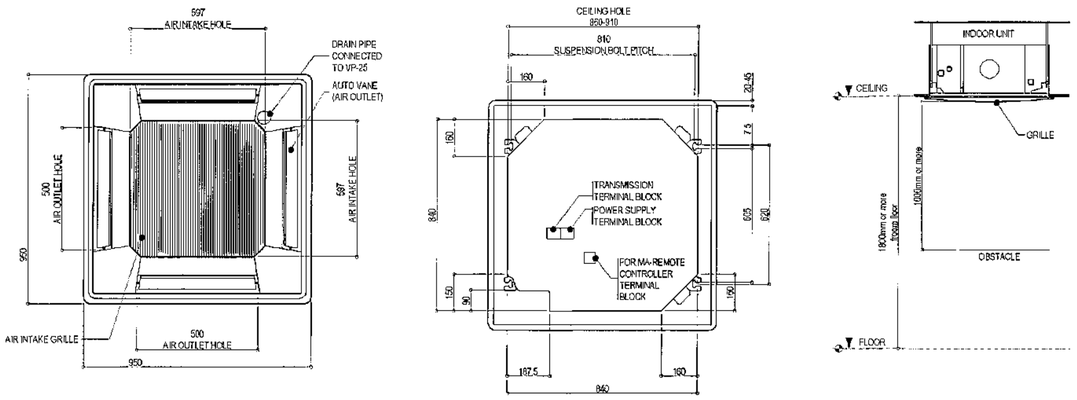
GENERAL NOTES
LEGENDS & SYMBOLS
PIPE SLEEVE DETAIL
EQUIPMENT SCHEDULE

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Sibucao

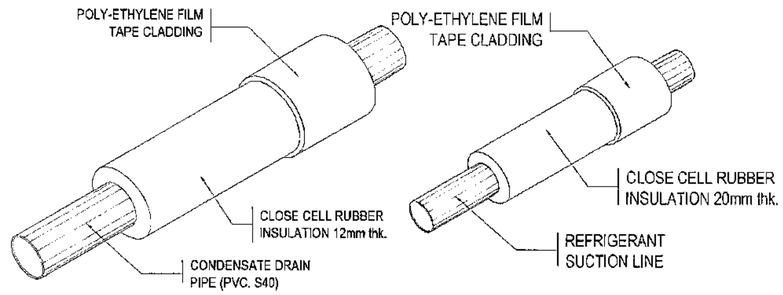
SHEET NO.:

ME-01



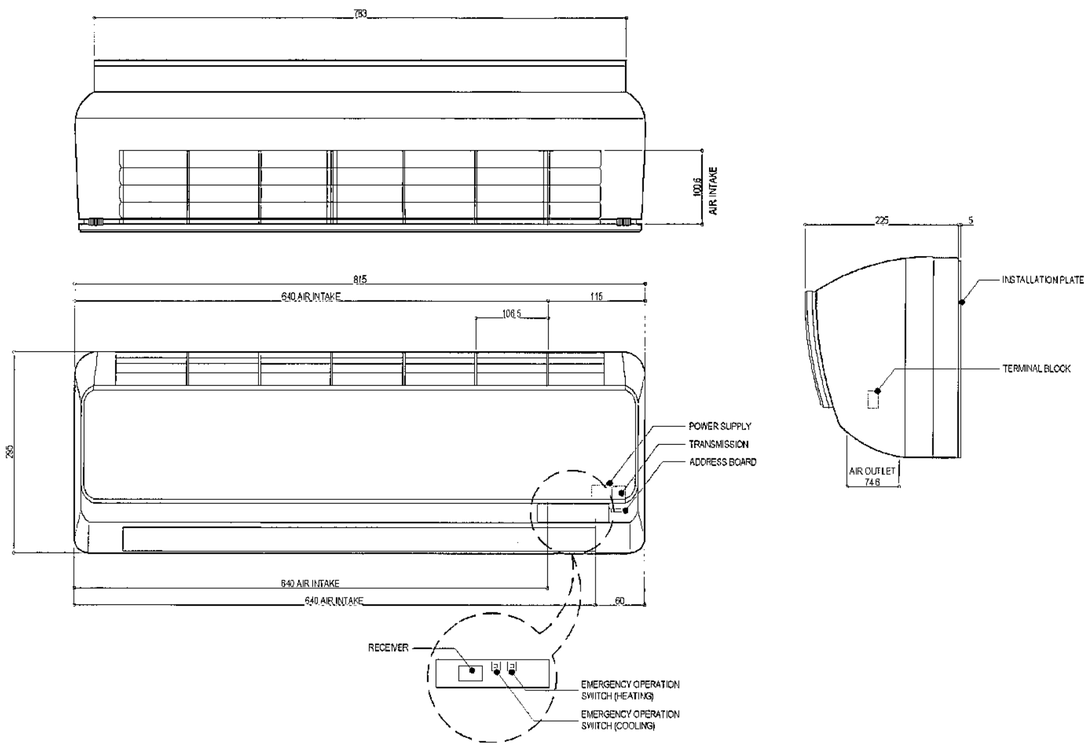
1 CEILING CASSETTE TYPE DETAIL

NOT TO SCALE



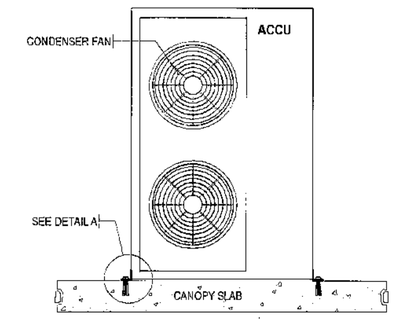
2 REFRIGERANT AND CONDENSATE DRAIN PIPE DETAIL

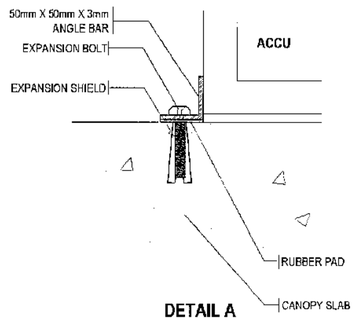
NOT TO SCALE



3 WALL - MOUNTED TYPE DETAIL

NOT TO SCALE

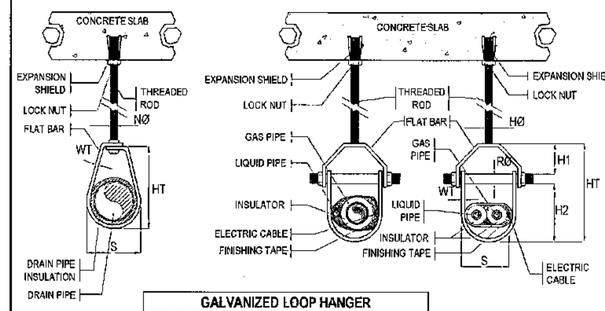




DETAIL A

4 ACCU MOUNTING DETAIL

NOT TO SCALE



GALVANIZED LOOP HANGER

NOMINAL PIPE SIZE	WT	S	HT	NØ	MAX.. LOAD Recom'd LBS
INCHES	MM	MM	MM	MM	LBS.
1/2	0.80	27.00	64.00	9.50	300
3/4	0.80	31.00	68.00	9.50	300
1	0.80	37.00	68.00	9.50	300
1 1/4	0.80	45.00	76.00	9.50	300
1 1/2	0.80	48.50	84.00	9.50	300
2	1.00	63.00	97.50	9.50	300
4	2.00	116.50	161.00	9.50	850
6	3.00	169.00	234.00	12.70	1250
8	3.00	226.00	305.00	12.70	1250

GALVANIZED CLEVIS HANGER

NOMINAL PIPE SIZE	HT	H1	H2	HØ	RØ	WT	S	MAX.. LOAD Recom'd LBS
INCHES	MM	MM	MM	MM	MM	MM	MM	LBS.
2	117.00	70.50	37.00	10.00	5.20	2.10	65.00	810
2 1/2	137.20	80.60	43.00	13.50	8.30	3.00	80.00	1130
3	155.00	96.00	45.50	13.50	8.30	3.00	94.00	1130
4	197.00	135.00	49.00	16.00	8.30	3.00	116.30	1430
6	247.00	182.00	55.50	19.50	11.00	4.00	117.60	1940
8	323.00	235.00	76.00	23.50	14.00	4.20	226.00	2000
10	414.00	291.00	108.00	24.00	17.00	5.50	284.00	3800
12	475.00	343.00	112.50	24.00	17.00	6.00	345.00	3800

5 PIPE HANGER DETAIL

NOT TO SCALE

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SIF CIVIC CENTER - D (GRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR

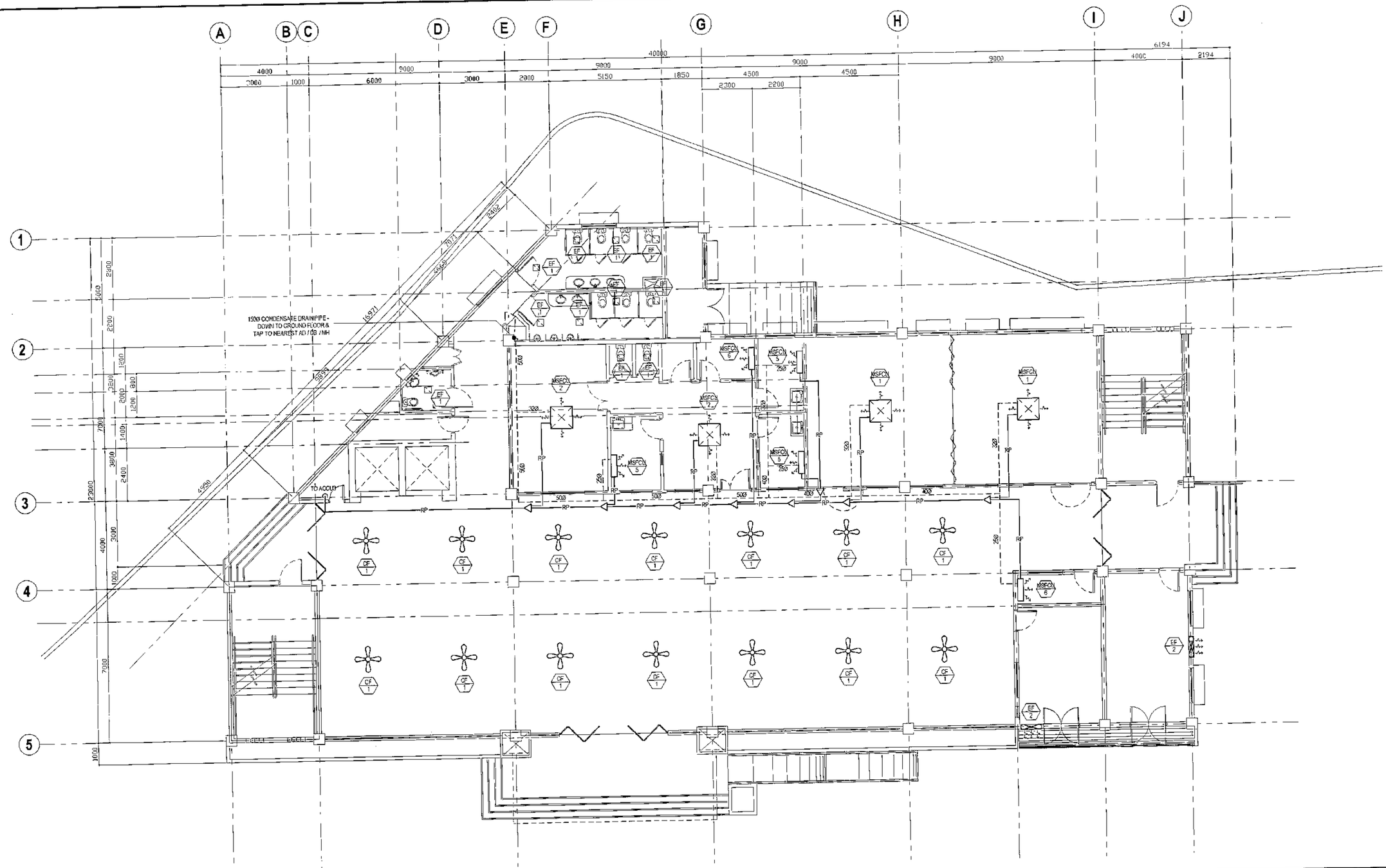
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
CEILING CASSETTE TYPE DETAIL
REFRIGERANT AND CONDENSATE DRAIN PIPE DETAIL
WALL-MOUNTED TYPE DETAIL
ACCU MOUNTING DETAIL
PIPE HANGER DETAIL

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Sibucao

SHEET NO.: **ME-02**



1 GROUND FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

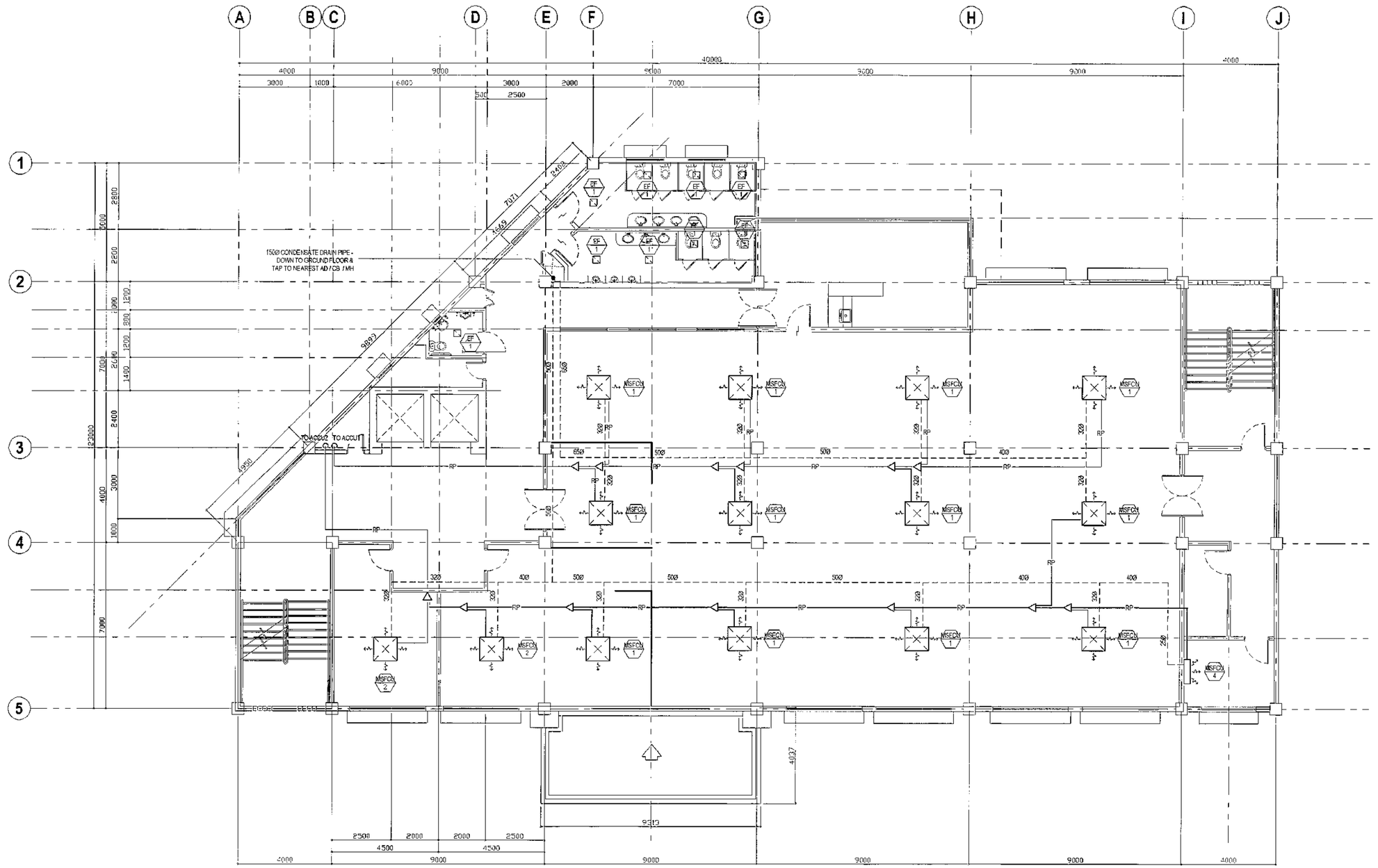
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
GROUND FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Sibucao

SHEET NO.:
ME-03



1 SECOND FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:
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CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC- CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

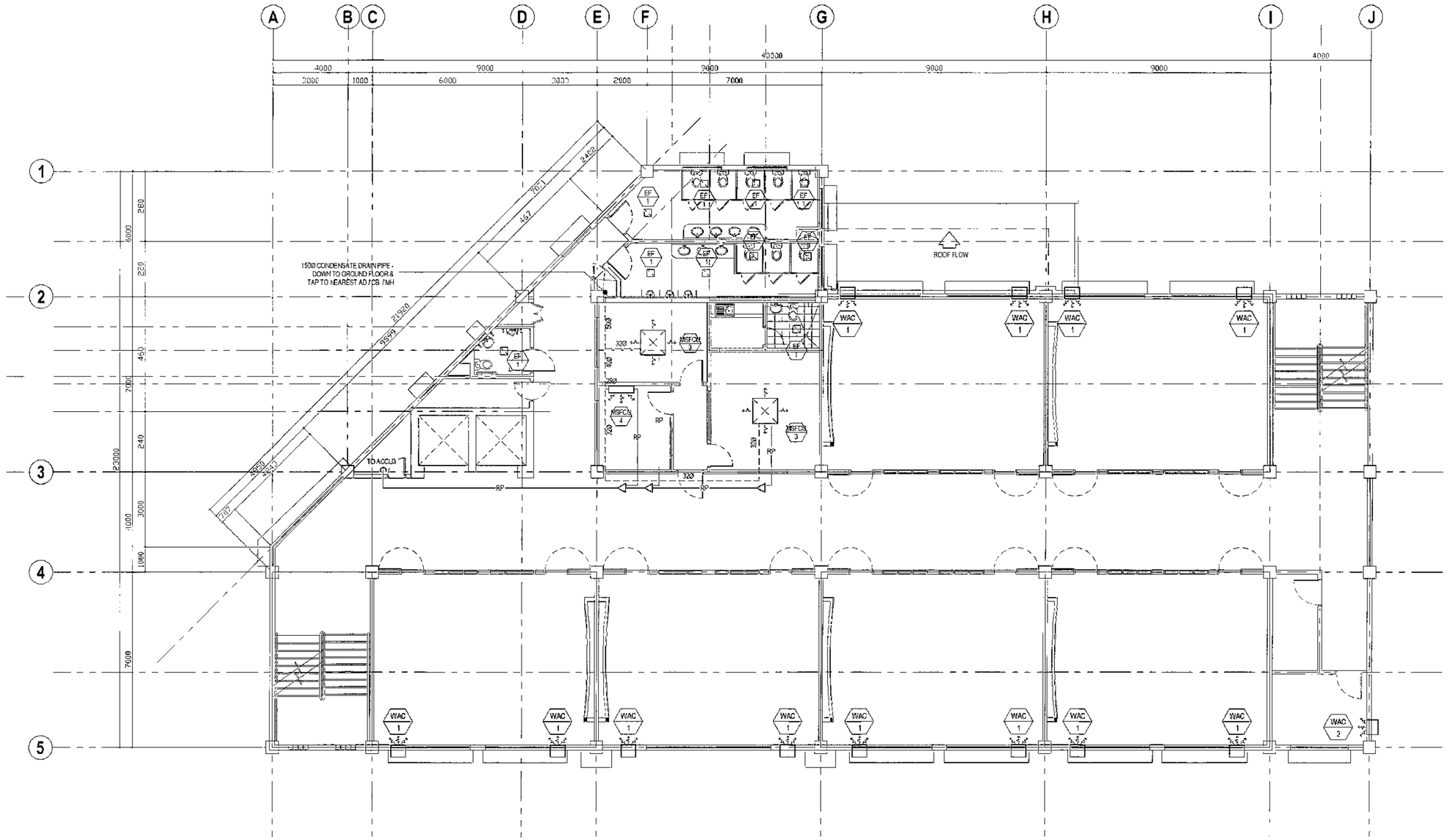
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SECOND FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Sibucao

SHEET NO.:
ME-04



1 THIRD FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

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MAYOR Q.C.

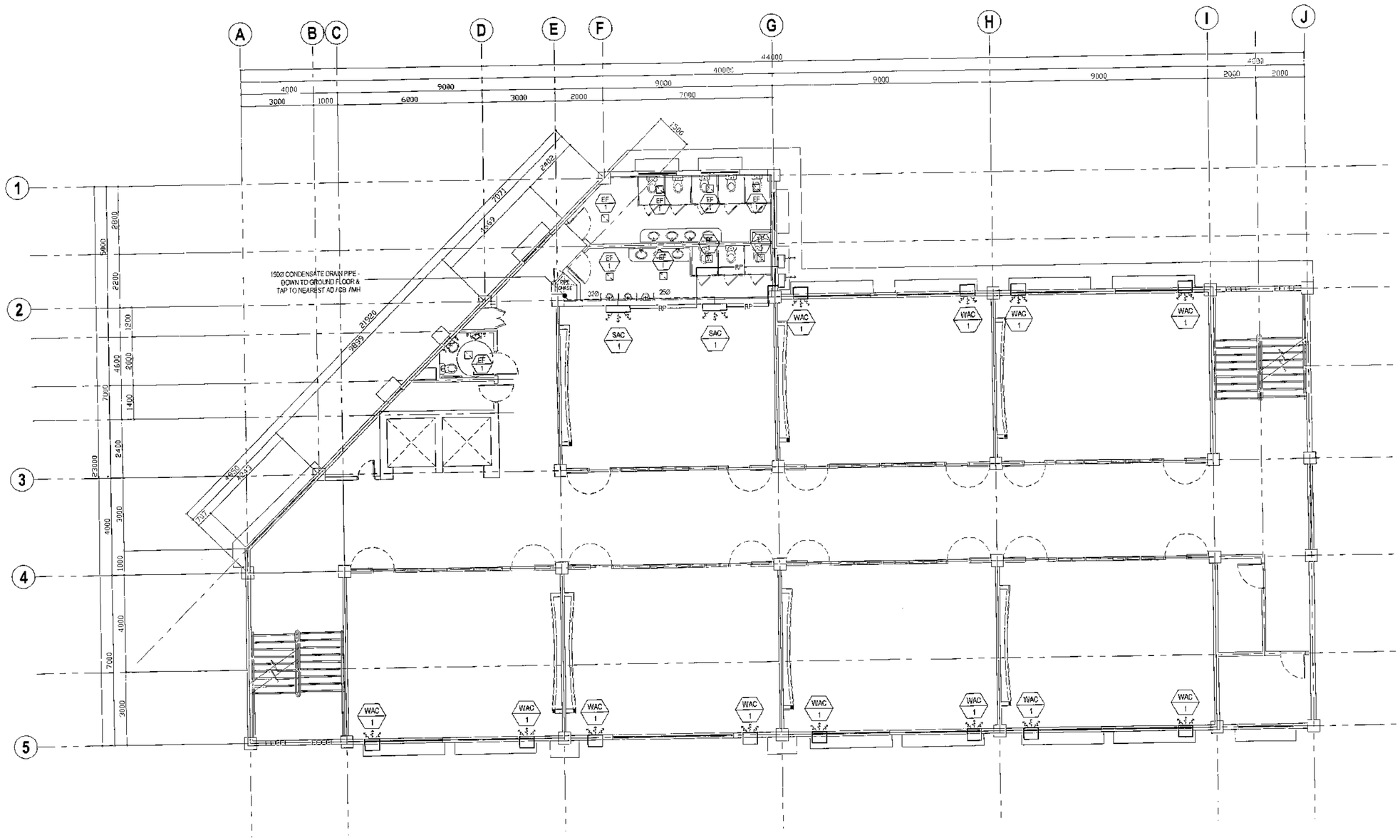
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
THIRD FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Sibucao

SHEET NO.:
ME-05



1 TYPICAL FOURTH FLOOR TO SIXTH FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

SCALE 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC-CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

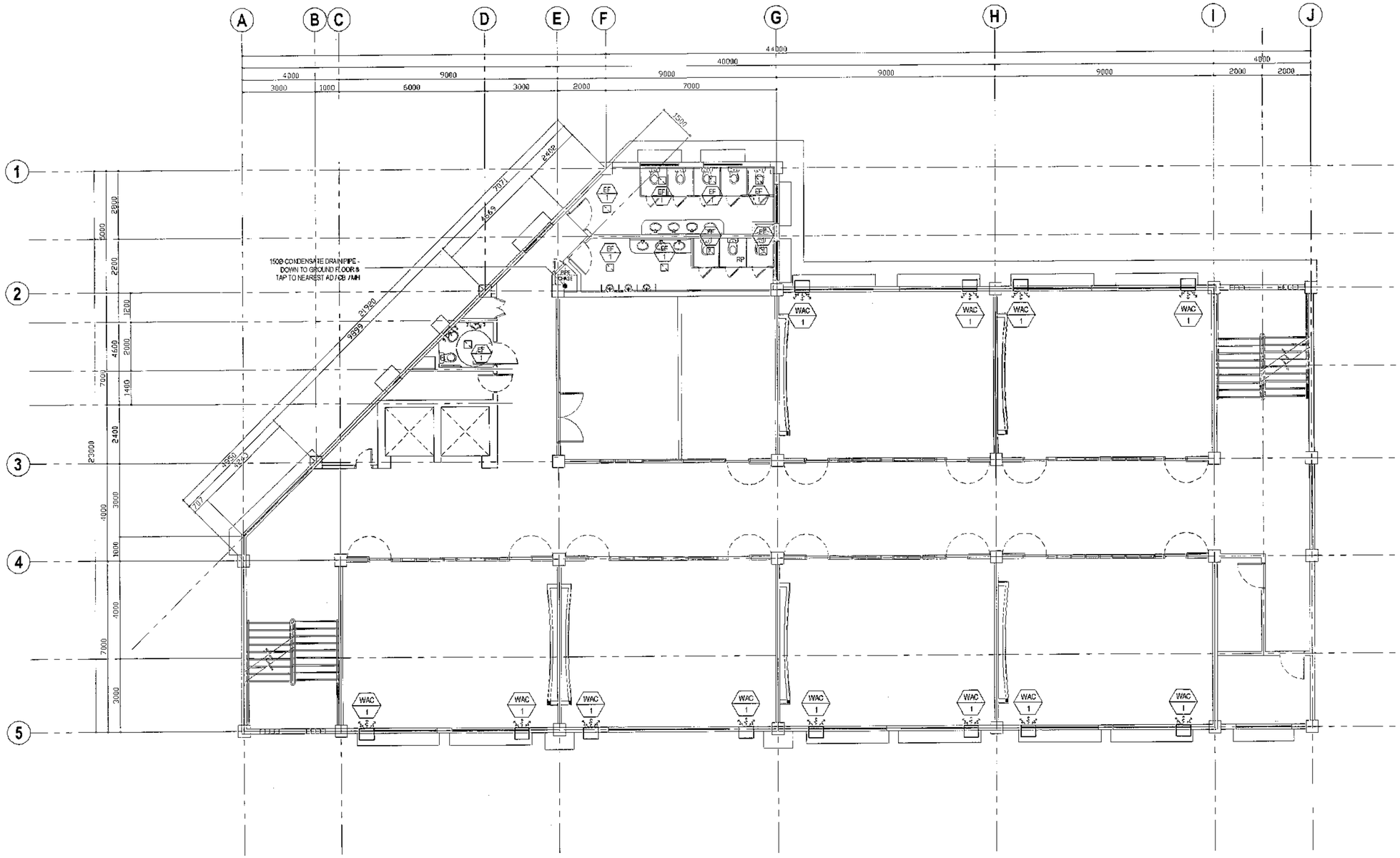
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
TYPICAL FOURTH TO SEVENTH FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Sibucao

SHEET NO.:
ME-06



1 SEVENTH FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

SCALE 1:100 METERS

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

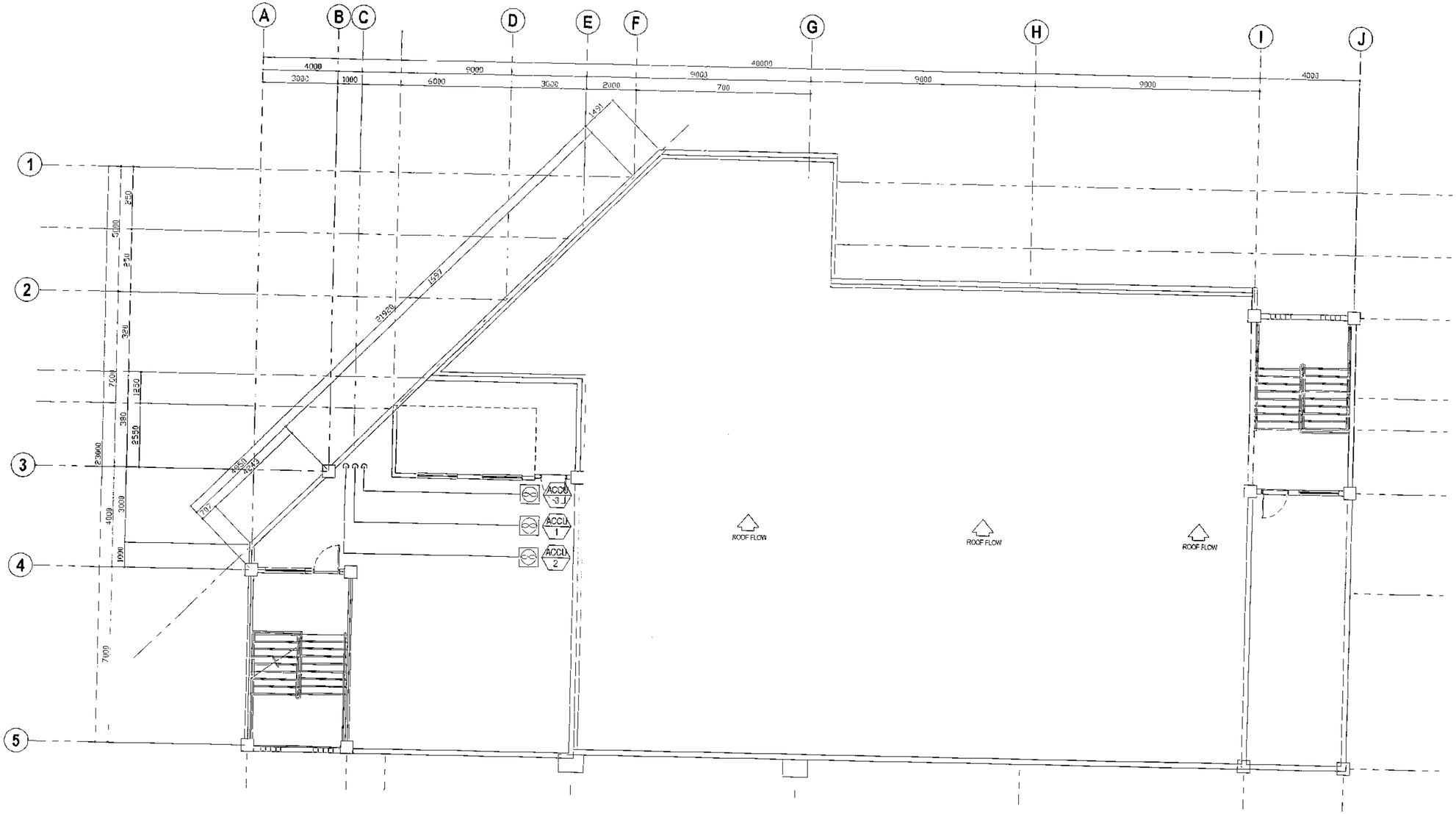
SEVENTH FLOOR AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Sibucao

SHEET NO.:

ME-07



1 ROOF DECK AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

SCALE 1:100 METERS

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5/F CIVIC CENTER - D (BRO. B4g), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

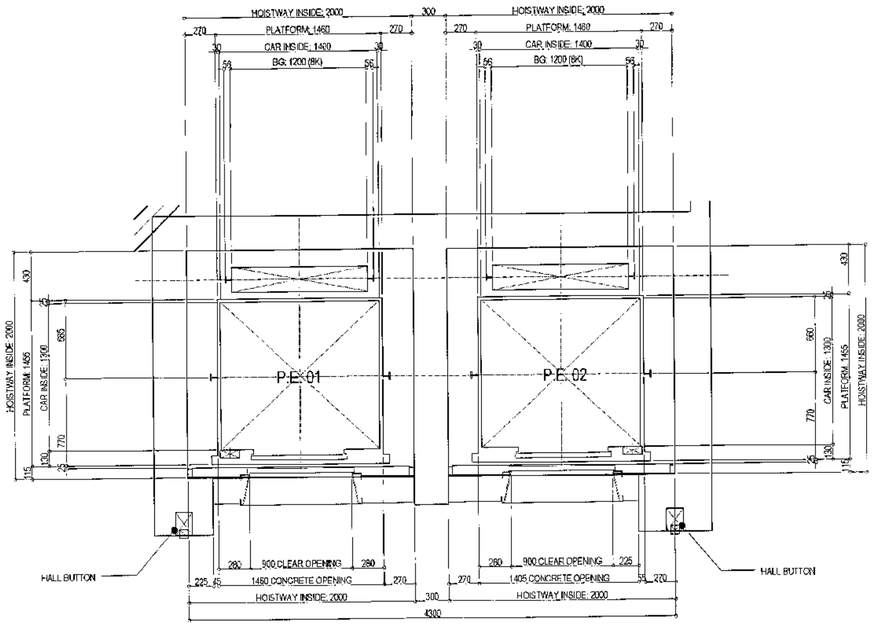
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
ROOF DECK AIR CONDITIONING AND VENTILATION SYSTEM LAYOUT

PROJECT NO.:

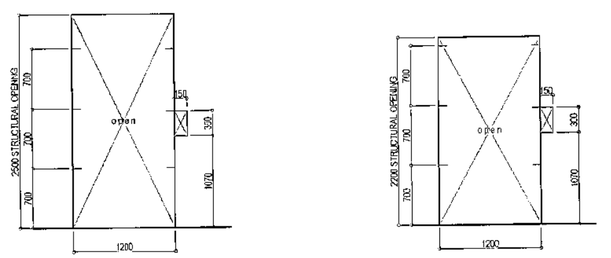
DATE	October 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E. R. Sibucao
CHECKED BY	Engr. E. R. Sibucao

SHEET NO.:
ME-08



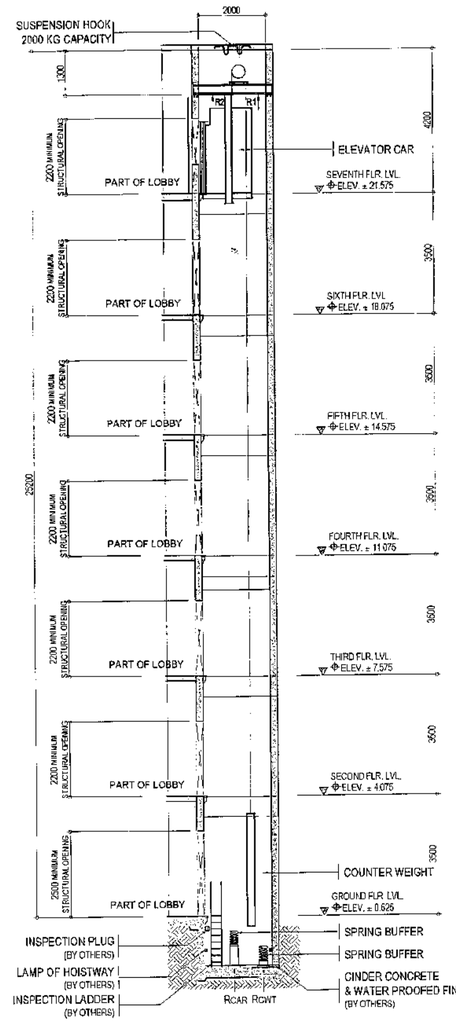
1 HOIST PLAN

SCALE 1:30 METERS



2 STRUCTURAL OPENING ENTRANCE

SCALE 1:30 METERS



3 SECTION OF HOISTWAY

SCALE 1:100 METERS

NOTES

CONSTRUCTION OPENING FOR MACHINERY

- FOR HOISTING UP MACHINE & CONTROL PANEL TO THE MACHINE ROOM
- REINFORCING STEEL BAR SHALL REMAIN BENDED BEFORE RE-CONCRETING AND AFTER HOISTING OF MACHINE AND CONTROL PANEL

1000X1500

(BY OTHERS)

CONCENTRATED LOAD REACTIONS

R1	32KN	R3	32KN
R2	22KN		

BUFFER REACTIONS

CAR	R4	66KN	
CWT	R5	56KN	

ELECTRICAL WORKS(BY OTHERS)

NFB CAPACITY	MAIN	LIGHTING
	60A	20A
POWER FEEDER SIZE	8.0 mm²	
EARTH WIRE SIZE	6.0 mm²	
LIGHTING WIRE SIZE	2.0 mm²	
INTERPHONE SIZE (SHIELDED WIRE)	1.5 mm x 6	mm²

1. ALL WIRE SIZES ARE BASED ON IT'S MAXIMUM LENGTH 50m.
2. PLEASE KEEP THE MACHINE ROOM TEMPERATURE BELOW 35°C AGAINST THE GENERATED HEAT OF 2250 Kcal/hour BY THE MACHINERY IN THE ROOM & KEEP THE HUMIDITY OF BELOW 85 %.

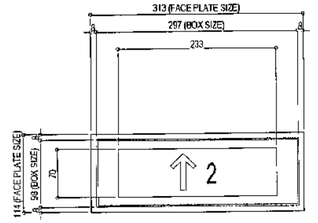
OH	4200
6	3500
5	3500
4	3500
3	3500
2	3500
G	4500
P	1600
Floor	Heightmm
Floor/Stop/Opening	

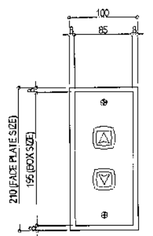
SPECIFICATION AND DATA

ELEV. NO. & Q'TY.		2 UNITS (P.E. 01 & P.E. 02)
EQUIPMENT USE		PASSENGER ELEVATOR
CAPACITY		800 KGS.
SPEED		1.0 M/S
CONTROL		VVVF INVERTER
OPERATION		SIMPLEX COLLECTIVE SELECTIVE
STOPS		7 / 7 / 7 - G, 2, 3, 4, 5, 6, 7
TRAVEL HEIGHT		21000 MM
CAR SIZE: INTERNAL		1400 (W) x 1300 (D)
DOOR OPENING SIZE		800 (W) x 2100 (H)
DOOR OPENING TYPE		2 PANELS CENTER OPENING
TYPE OF MOTOR M/C		GEARLESS TRACTION MACHINE
DIA.OF MAIN SHEAVE		____ mm
MAIN ROPE		____ mm
TYPE OF PLATFORM FLOORING		PVC
CAR RAIL		T-TYPE RAILINGS
COUNTERWEIGHT RAIL		T-TYPE RAILINGS
TYPE OF CAR BUFFER		HYDRAULIC BUFFER
TYPE OF CWT BUFFER		HYDRAULIC BUFFER
MOTOR CAPACITY (KW)		4.6 (KW)
RATED CURRENT (A)		10.4 AMPS.
POWER SUPPLY	MAIN :	230V, 3Ph, 60Hz
	LIGHT	220V, 1Ph. 60HZ

4 LAYOUT MANUAL

NOT TO SCALE





5 DIMENSION OF SIGNAL FIXTURES

SCALE 1:5 METERS

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6F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU - MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:

ELEVATOR DETAILS

PROJECT NO.:

DATE	November 2020
DRAWN BY	Engr. A.J.B.
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:

ME-09

PLUMBING NOTES

1. ALL PLUMBING WORKS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST PROVISION OF PHILIPPINE PLUMBING CODE, THE UNIFORM PLUMBING CODE, THE NATIONAL BUILDING CODE, AND THE RULES AND REGULATION OF THE QUEZON CITY.
2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS THE ARCHITECT/ ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS, ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF ARCHITECT / ENGINEER.
4. ALL SLOPES FOR SANITARY AND STORM DRAINAGE LINES SHALL MAINTAIN A ONE PERCENT (0.01) AND ONE-HALF (0.005) MIN RESPECTIVELY, UNLESS OTHERWISE SPECIFIED.
5. PROPOSED SANITARY UTILITIES SHALL CONFORM TO ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES.
6. ALL WATER SUPPLY PIPES & DRAIN SIZES OF FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.
7. TESTING OF SANITARY AND WATER LINES SHALL CONFORM TO THE LATEST REQUIREMENTS OF PHILIPPINE PLUMBING CODE AND UNIFORM PLUMBING CODE.
8. ALL PIPES SIZES AND DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
9. WATER LINE SHALL BE PPR TYPE PN-16, FUSION WELD TYPE.
10. SOIL PIPE, WASTE & VENT SHALL BE PVC SCH 40/S - 1000.
11. STORM DRAINAGE LINE 315mmØ AND BELOW SHALL BE POLYVINYL CHLORIDE, 450mmØ AND ABOVE SHALL BE REINFORCED CONCRETE PIPE.
12. GATE VALVE SHALL BE PPR TYPE.
13. WATER METER SHALL BE ANY BRAND APPROVE BY MWSS.
14. ROOF DRAIN OR SANITARY BASKET STRAINER SHALL BE 4" Ø STAINLESS WITH RIB'S CONSTRUCTED ON SLOTTED HOLES ON BRASS OR STAINLESS STEEL GA #12 RING WITH SECONDARY STRAINER TO INSURE CONTINUOUS FLOW OF WATER.
15. WATER CLOSET SHALL BE VITREOUS CHINA, FREE STANDING TOILET COMBINATION.
16. ROUND FRONT BOTTOM OUTLET SIPHON VORTEX OR WASH DOWN BOWL WITH EXTENDED REAR SELF AND CLOSED COUPLED TANK WITH COVER COMPLETE WITH FITTING AND MOUNTING ACCESSORIES.
17. LAVATORY SHALL BE VITREOUS CHINA, WALL HUNG WITH REAR OVERFLOW AND CAST IN SOAP DISHES, POCKET HANGER WITH INTEGRAL CHINA BRACKET, COMPLETE WITH TWIN FAUCETS, SUPPLY PIPES, P-TRAP AND MOUNTING ACCESSORIES.
18. WHERE INDICATED ON PLANS, THE COUNTER TOP MODEL, MAKE AND COLOR SHALL BE APPROVED BY THE DESIGNING ARCHITECT.
19. GRAB BARS SHALL BE MADE OF TUBULAR STAINLESS STEEL PIPE PROVIDED WITH SAFETY GRIP AND MOUNTING FLANGE.
20. FLOOR DRAINS SHALL BE MADE OF STAINLESS STEEL BEEHIVE TYPE, MEASURING 10cm X 10cm AND PROVIDED WITH DETACHABLE STAINLESS STRAINER, EXPANDED METAL LATH TYPE.
21. SOAP HOLDER SHALL BE VITREOUS CHINA WALL MOUNTED, COLOR SHALL RECONCILE WITH THE ADJACENT TILE WORKS.
22. TOILET PAPER HOLDER SHALL BE VITREOUS CHINA WALL MOUNTED, COLOR SHALL RECONCILE WITH THE ADJACENT FIXTURE AND FACING TILES.
23. FAUCETS SHALL BE MADE OF STAINLESS STEEL FOR INTERIOR USE.
24. HOSE BIBB SHALL BE MADE OF BRONZE CAST FINISH.

GENERAL NOTES

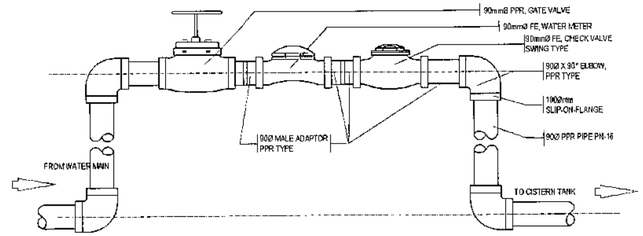
1. THESE DESIGN DOCUMENTS DESCRIBE THE PLUMBING WORKS OF THE PROPOSED CONSTRUCTION OF QUEZON CITY UNIVERSITY ACADEMIC BUILDING (PHASE 2)
2. THE DESIGN DOCUMENTS CONSIST OF THIS COMPLETE SET OF DRAWINGS, SPECIFICATIONS, AND NOTES, AS WELL AS ALL RELATED DOCUMENTS REFERRED TO WITHIN THESE DRAWINGS AND NOTES.
3. THE VARIOUS DESIGN DOCUMENTS ARE INTERRELATED AS FOLLOWS:
   - 3.1 THE GENERAL NOTES AND GENERAL CONDITIONS DEFINE THE RULES AND CONDITIONS GOVERNING THE WORK.
   - 3.2 THE SPECIFICATIONS, WHERE INCLUDED AS PART OF THE DESIGN DOCUMENTS, PROVIDE MORE DETAILED REQUIREMENTS ON THE RULES AND CONDITIONS GOVERNING THE WORK AS WELL AS PROVIDING BOTH GENERAL AND SPECIFIC INFORMATION REGARDING THE TYPES AND QUALITIES OF MATERIALS AND WORKMANSHIP TO BE USED IN THE WORK.
   - 3.3 THE DRAWINGS SHOW BOTH GRAPHICALLY AND BY NOTATION THE PHYSICAL CHARACTERISTICS AND REQUIREMENTS OF THE WORK INCLUDING DESCRIPTION OF MATERIALS, COLORS, FINISHES, SYSTEMS AND EQUIPMENT TO BE USED IN THE EXECUTION OF THE WORK.
   - 3.4 IN GENERAL, THE DRAWINGS TAKE PRECEDENCE OVER GENERAL SPECIFICATIONS. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL-SCALE DRAWINGS. WRITTEN DRAWINGS KEYNOTES TAKE PRECEDENCE OVER PICTORIAL PRESENTATIONS IN THE DRAWINGS, AND WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.
4. IN ALL CASES WHERE THE DESIGN DRAWINGS MAY DISAGREE WITH THEMSELVES, THE CONTRACTOR IS TO PRICE THE MOST COST-EFFECTIVE COMBINATION OF QUALITY WITH CLARIFICATION REQUESTED FROM THE PLUMBING DESIGNER AFTER THE CONTRACT HAS BEEN AWARDED.
5. DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS ONLY. IN THE EVENT OF DISCREPANCY BETWEEN ANY FIELD CONDITIONS AND THE FIGURED DIMENSIONS OF THE DRAWINGS OR DISCREPANCIES BETWEEN DRAWINGS THEMSELVES, THE CONTRACTOR IS TO NOTIFY THE PLUMBING DESIGNER BEFORE PROCEEDING. DUE TO THE REPRODUCTION PROCESS, ALL COPIES OF ORIGINAL DRAWINGS MUST BE CONSIDERED NOT TO SCALE.

1 PLUMBING AND GENERAL NOTES

DESIGNATION	LOCATION	QUANTITY	DESCRIPTION	REMARKS
TP 1	GROUND FLOOR	2.0	**TRANSFER PUMP,** CENTRIFUGAL, END-SUCTION, CAST-IRON CONSTRUCTION, HARD PLASTIC IMPELLER, STAINLESS STEEL SHAFT, MECHANICAL SEAL WITH A CAPACITY OF 170 GPM AGAINST 150 FT. TOTAL DYNAMIC HEAD. CLOSE COUPLED TO A 10.0 HP, 220V, 3Ø 60Hz HIGH-EFFICIENT MOTOR. COMPLETE WITH CONTROLLER AND OTHER ACCESSORIES NEEDED FOR AUTOMATIC, PARALLEL OPERATION.	CONTRACTOR SUPPLY AND INSTALL. UNIT SHALL BE EQUIPPED WITH ELECTRICAL PANEL BOARDS, ELECTRODES OR FLOW SWITCHES.
OT 1	ROOF OVER STAIR 01	2.0	**OVERHEAD TANK,** STAINLESS STEEL CONSTRUCTION, 1" THK. WITH A CAPACITY OF 2000 GALS. COMPLETE WITH MANHOLE LADDER RUNG, SADDLE STRAP, INLET PORT, OUTLET PORT, VENT DRAIN PORT, AND MANHOLE COVER, DIMENSION SHALL BE 2000mm DIAMETER WITH A LENGTH OF 4000mm. VERTICALLY INSTALLED.	UNIT SHALL BE LOCALLY FABRICATED AND FACTORY TESTED AT 150 PSI.
RWG 1	SEVENTH FLOOR	8.0	**RAINWATER COLLECTOR,** MANUFACTURED FROM VIRGIN FOOD GRADE POLYETHYLENE, 2000 LITERS CAPACITY, COMPLETE WITH INLET, OUTLET, OVERFLOW AND MANHOLES, HIGH PREMIUM WITH FLUSH DIVERTER.	PROVIDE FLOAT VALVE AT THE END OF INLET PIPE. THE FLOAT VALVE WILL AUTOMATICALLY CUT THE SUPPLY LINE WHEN DESIRED WATER LEVEL IS ACHIEVED
EPP 1	GROUND FLOOR	1.0	ELEVATOR PIT PUMP, SUBMERSIBLE TYPE, NON-CLOG, DESIGNED TO PUMP WASTE WATER. PUMP SHALL HAVE A CAPACITY OF 20.0 GPM VS 40 FT TDH AND DRIVEN BY A 1/2 HP, 220V, 1Ø, 60 Hz SUBMERSIBLE MOTOR - COMPLETE W/ FLOAT SWITCHES.	CAPACITY AND HP RATINGS OF ELEVATOR PIT PUMP MAY CHARGE DEPENDING UPON THE ACTUAL SEEPAGE AT JOBSITE, ENCOUNTER DURING CONSTRUCTION.

2 EQUIPMENT SCHEDULE

NOT TO SCALE

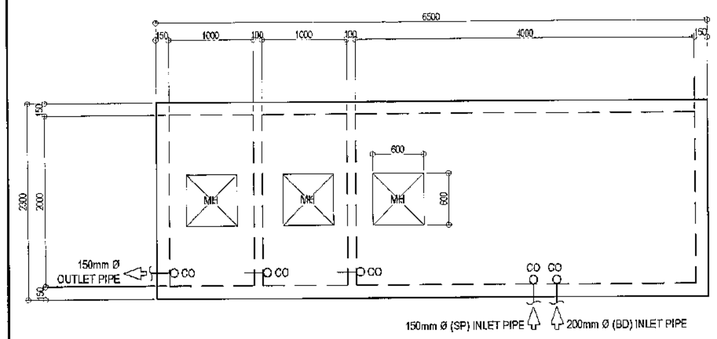


2 WATER METER CONNECTION DETAIL

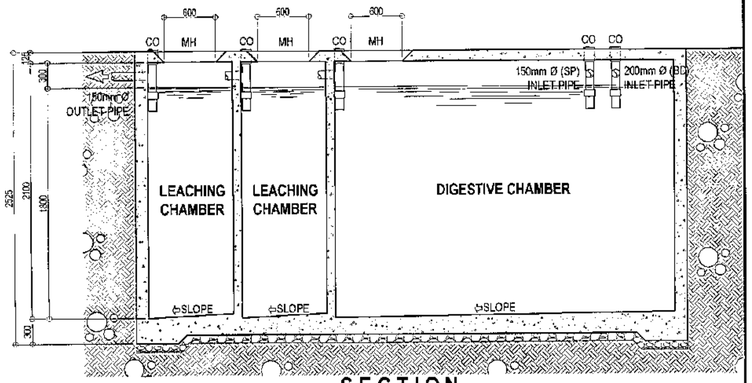
NOT TO SCALE

- UNION PATENT
- CHECK VALVE
- BS - BUILDING SEWER
- BD - BUILDING DRAIN
- AD / CB - AREA DRAIN / CATCH BASIN
- WASTE LINE
- WATER LINE
- GATE VALVE
- PIPE DOWN
- PIPE UP
- END CAP
- DIRECTION OF FLOW / SLOPE
- HB - HOSE BIBB
- STORM DRAIN LINE
- VENT LINE
- SSK - SLOP SINK
- FS - FLOW SWITCH
- mm - MILLIMETER
- UR - URINAL
- GV - GATE VALVE
- FLV - FLOAT VALVE
- BV - BALL VALVE
- GIP - GALVANIZED IRON PIPE
- PVC - POLYVINYL CHLORIDE
- WC - WATER CLOSET
- LAV - LAVATORY
- SP - SOIL PIPE
- WM - WATER METER
- MH - MANHOLE
- GPM - GALLONS PER MINUTE
- GCO - GROUND CLEANOUT
- HP - HORSE POWER
- FCO - FLOOR CLEANOUT
- FD - FLOOR DRAIN
- FT - FEET
- Ø - DIAMETER
- TP - TRANSFER PUMP
- SS - SOIL STACK
- VS - VENT STACK
- VTR - VENT THRU ROOF
- CWR - COLD WATER RISER
- HDEP - HIGH DENSITY POLYETHYLENE
- DS - DEBRIS SEPARATOR
- WP - WASTE PIPE
- SP - SOIL PIPE

6 LEGENDS & SYMBOLS



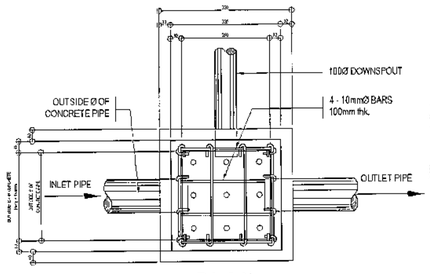
PLAN



SECTION

7 DETAIL OF AREA DRAIN / CATCH BASIN

NOT TO SCALE



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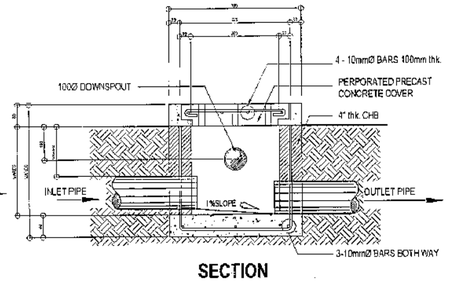
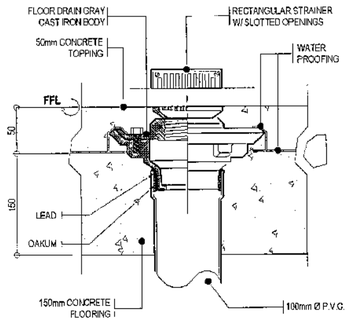


SECTION

5 DETAIL OF SEPTIC TANK

NOT TO SCALE



7 FLOOR/DECK DRAIN DETAIL

NOT TO SCALE

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

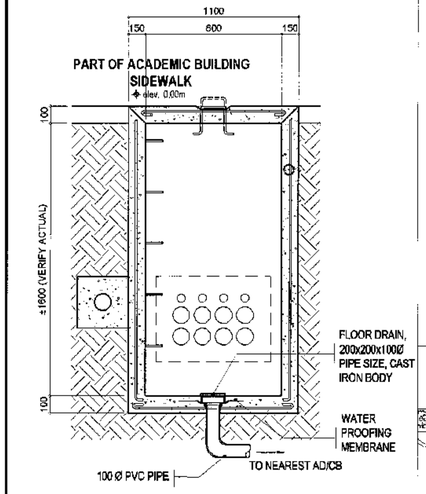
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
PLUMBING AND GENERAL NOTES
EQUIPMENT SCHEDULE

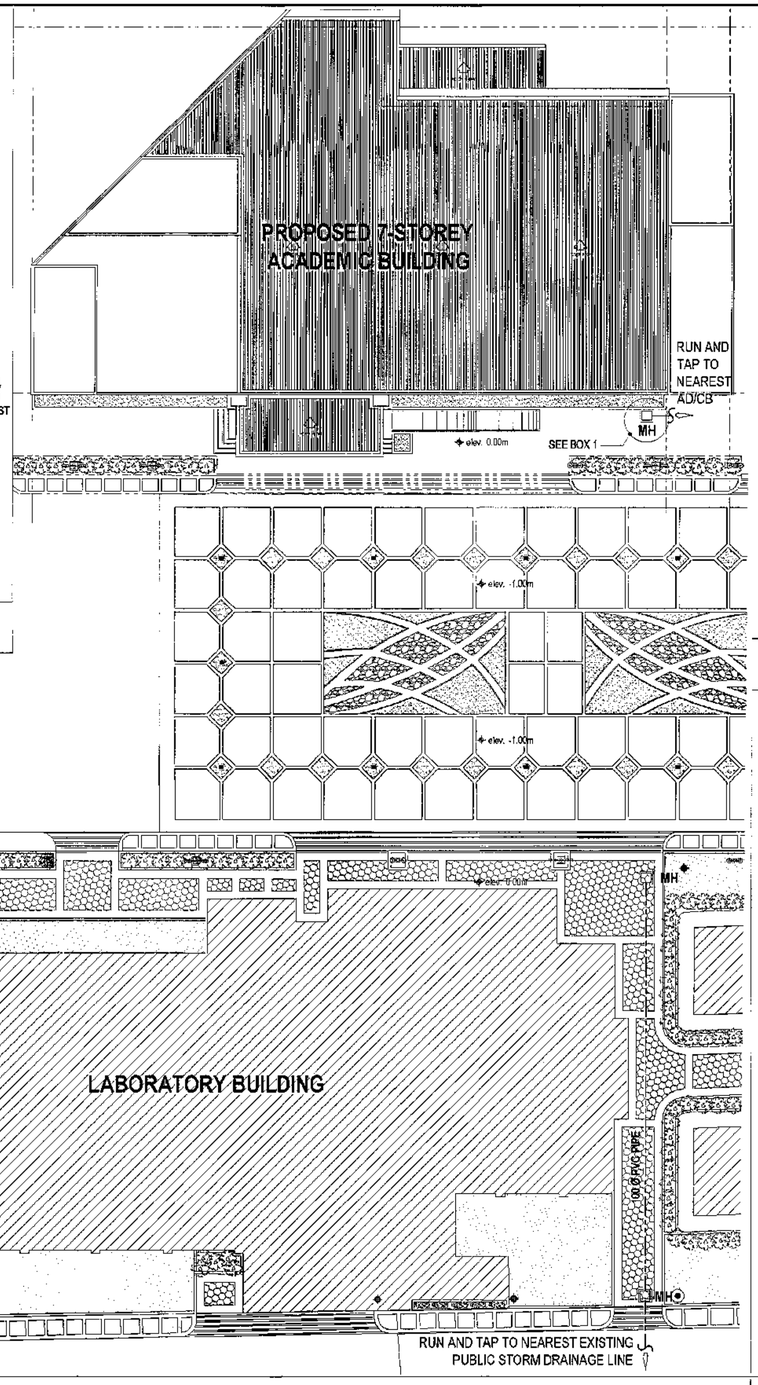
PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **PL-01**

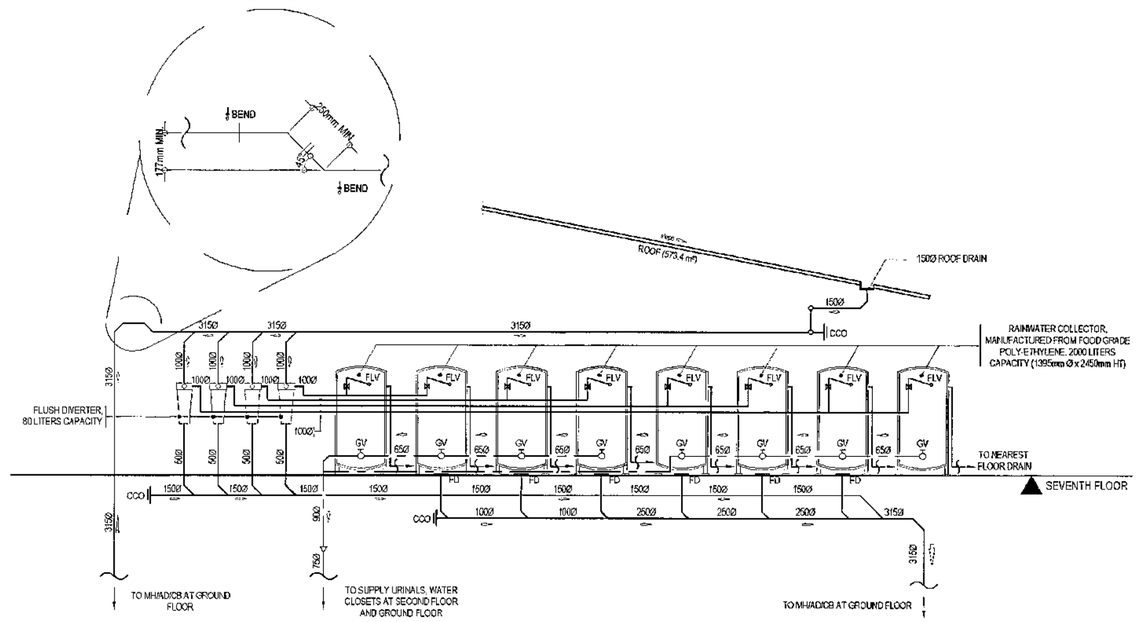


1 MH DETAIL



2 SITE DEVELOPMENT PLAN

NOT TO SCALE



3 RAINWATER PARTIAL SCHEMATIC DIAGRAM

NOT TO SCALE

4 WATERLINE PARTIAL SCHEMATIC DIAGRAM

NOT TO SCALE

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

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Engr. ISAGANI R. VERZOSA Jr.
OIC CITY ENGINEER

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MAYOR

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU: MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

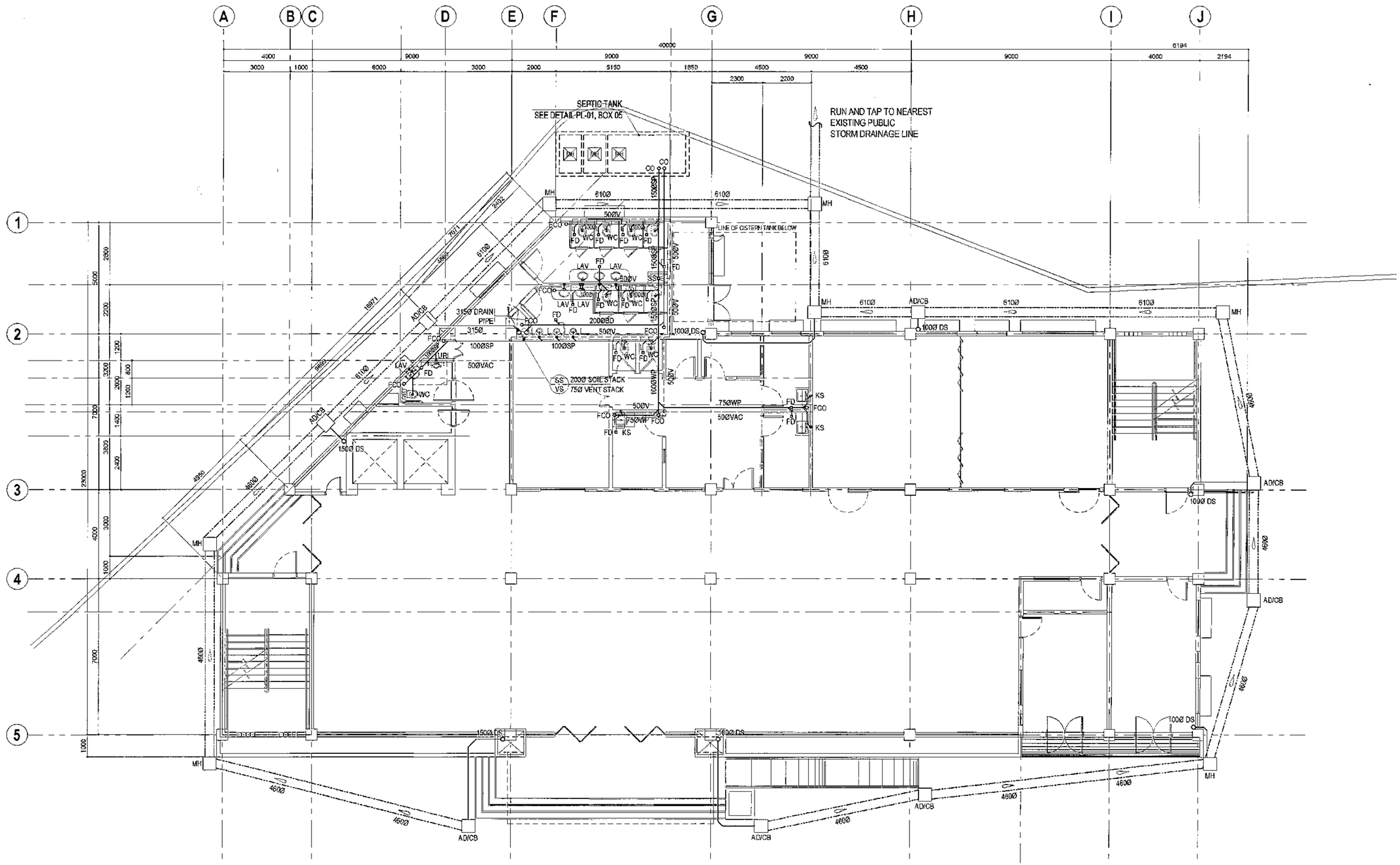
SITE DEVELOPMENT PLAN
RAINWATER DIAGRAM

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:

PL-02



1 GROUND FLOOR SANITARY AND STORM DRAINAGE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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CITY ARCHITECT DEPARTMENT
SP CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
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PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

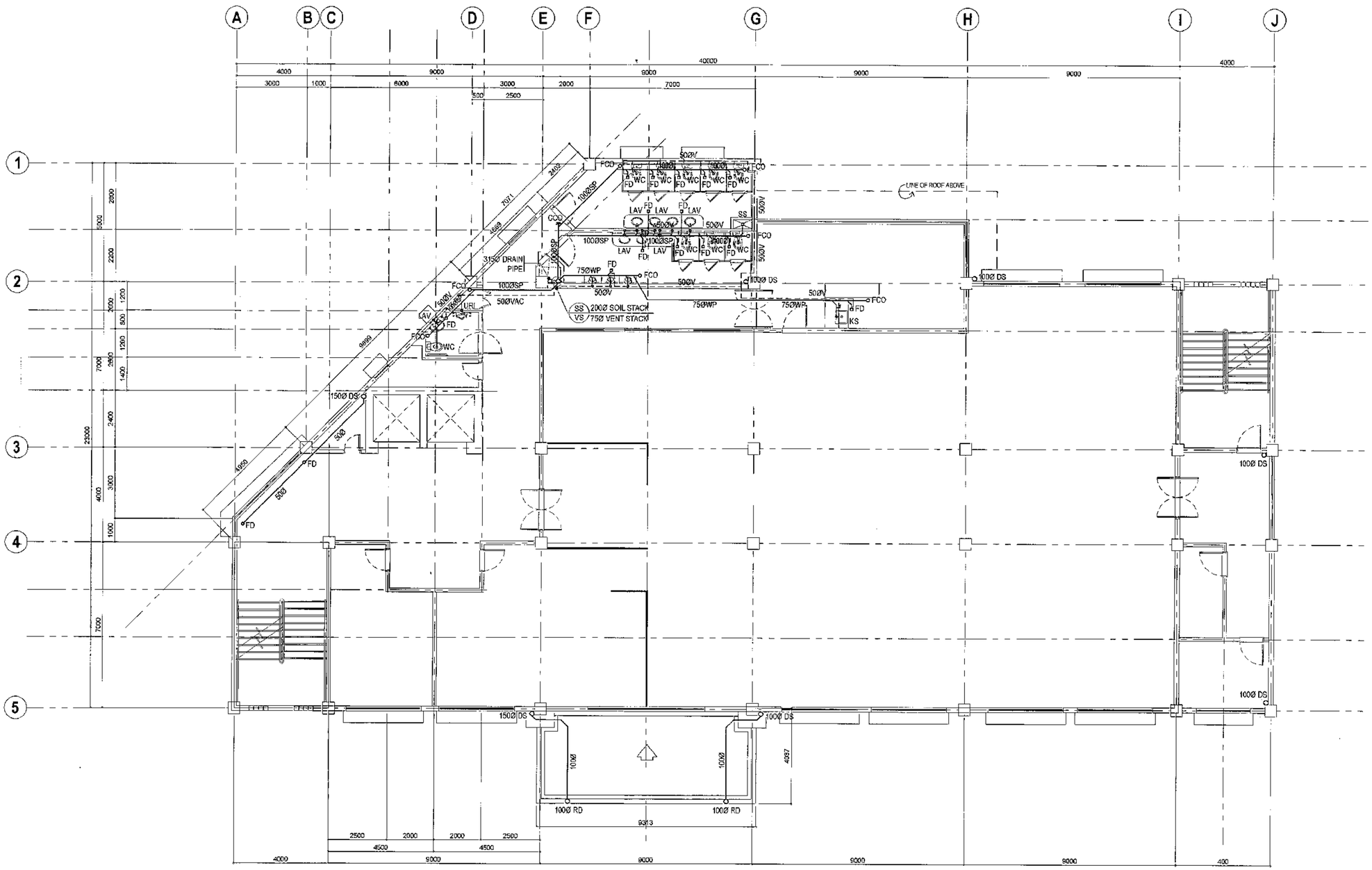
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

GROUND FLOOR SANITARY AND STORM DRAINAGE LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **PL-03**



1 SECOND FLOOR SANITARY AND STORM DRAINAGE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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Ar. LUCILLE H. CHUA,fuap, piep
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PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SECOND FLOOR SANITARY AND STORM DRAINAGE LAYOUT

PROJECT NO.:

DATE	November 2020
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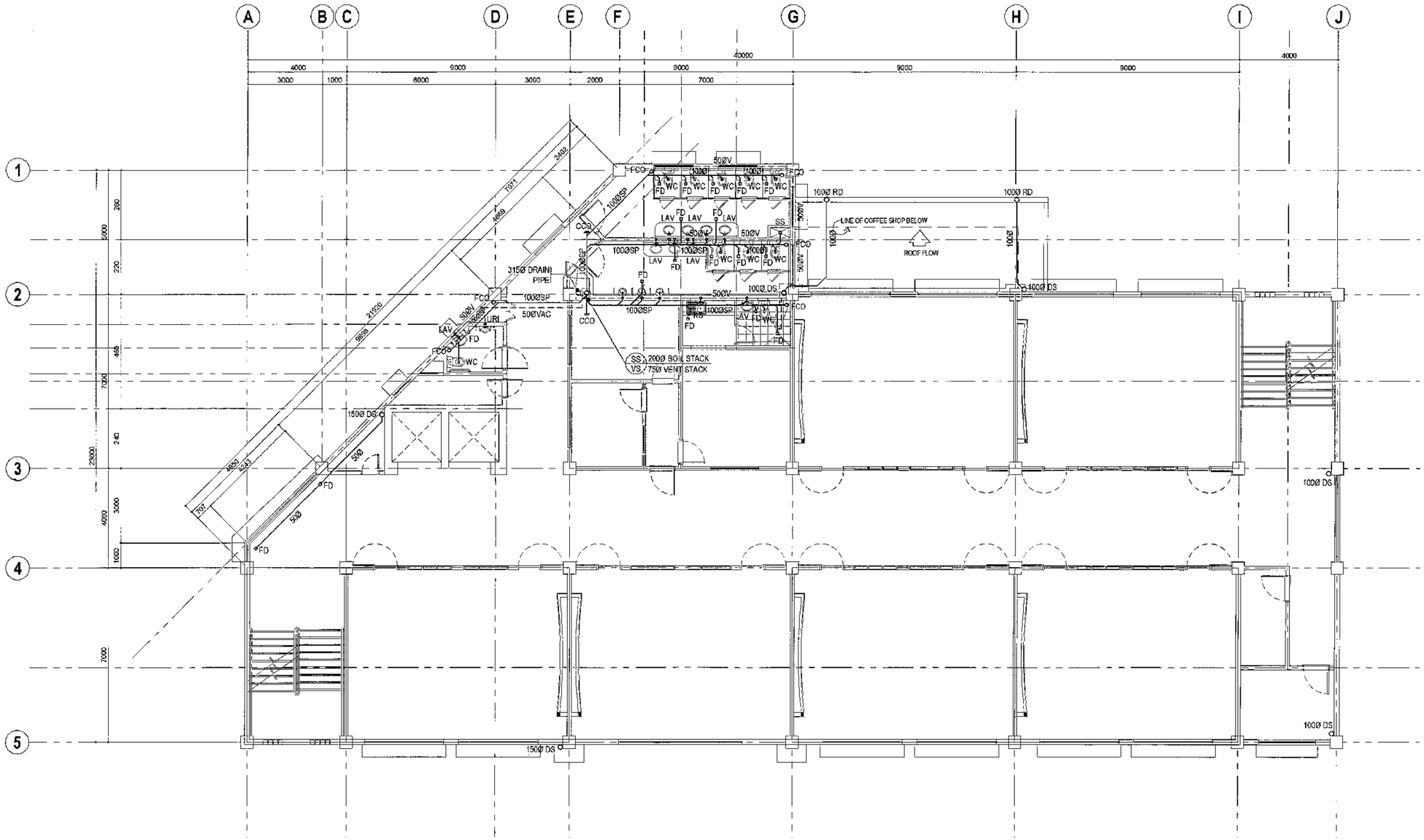
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-04



1 THIRD FLOOR SANITARY AND STORM DRAINAGE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
THIRD FLOOR SANITARY AND STORM DRAINAGE LAYOUT

PROJECT NO.:

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DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

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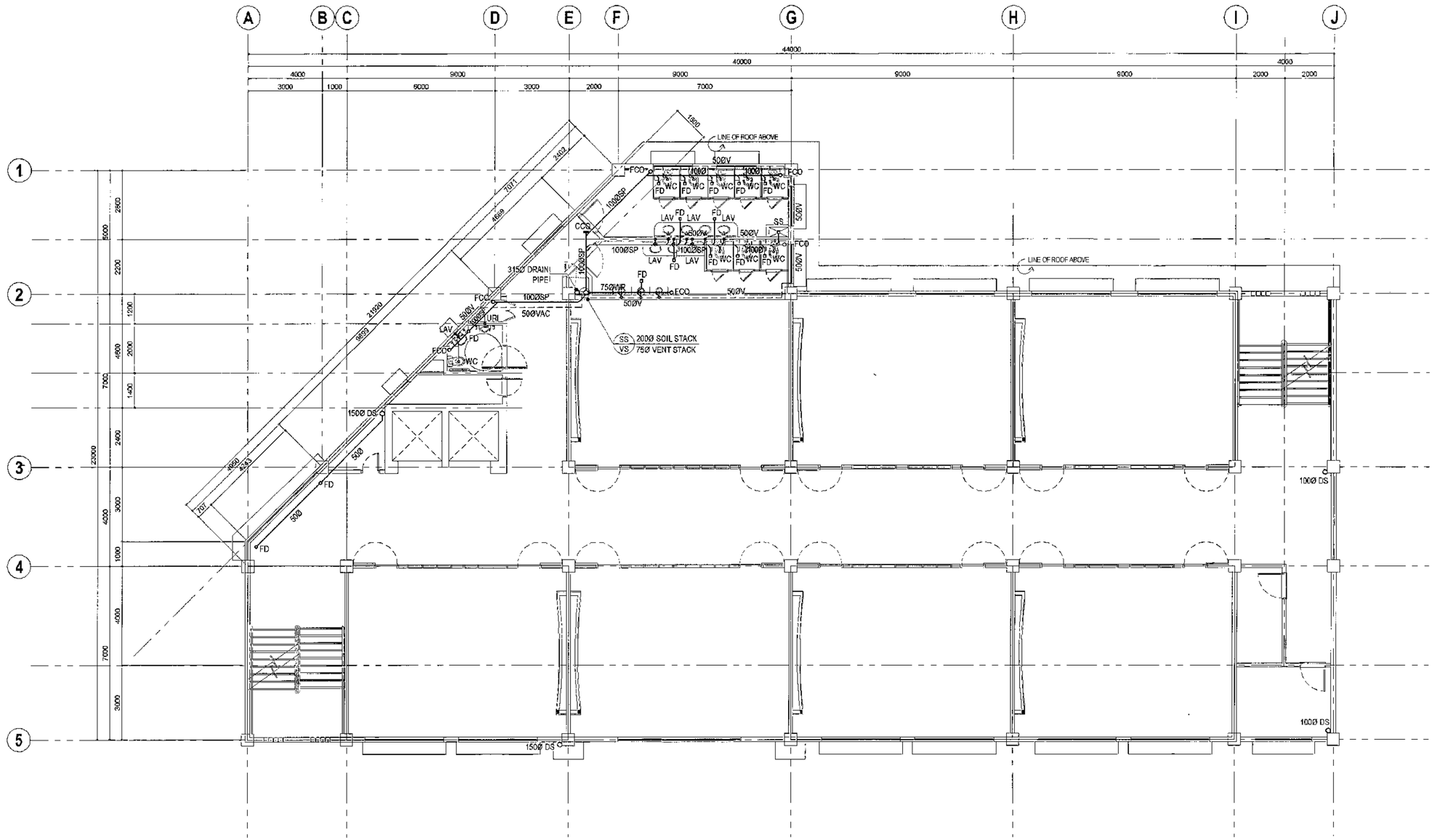
PL-05



1 TYPICAL FOURTH FLOOR TO SIXTH FLOOR SANITARY AND STORM DRAINAGE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR

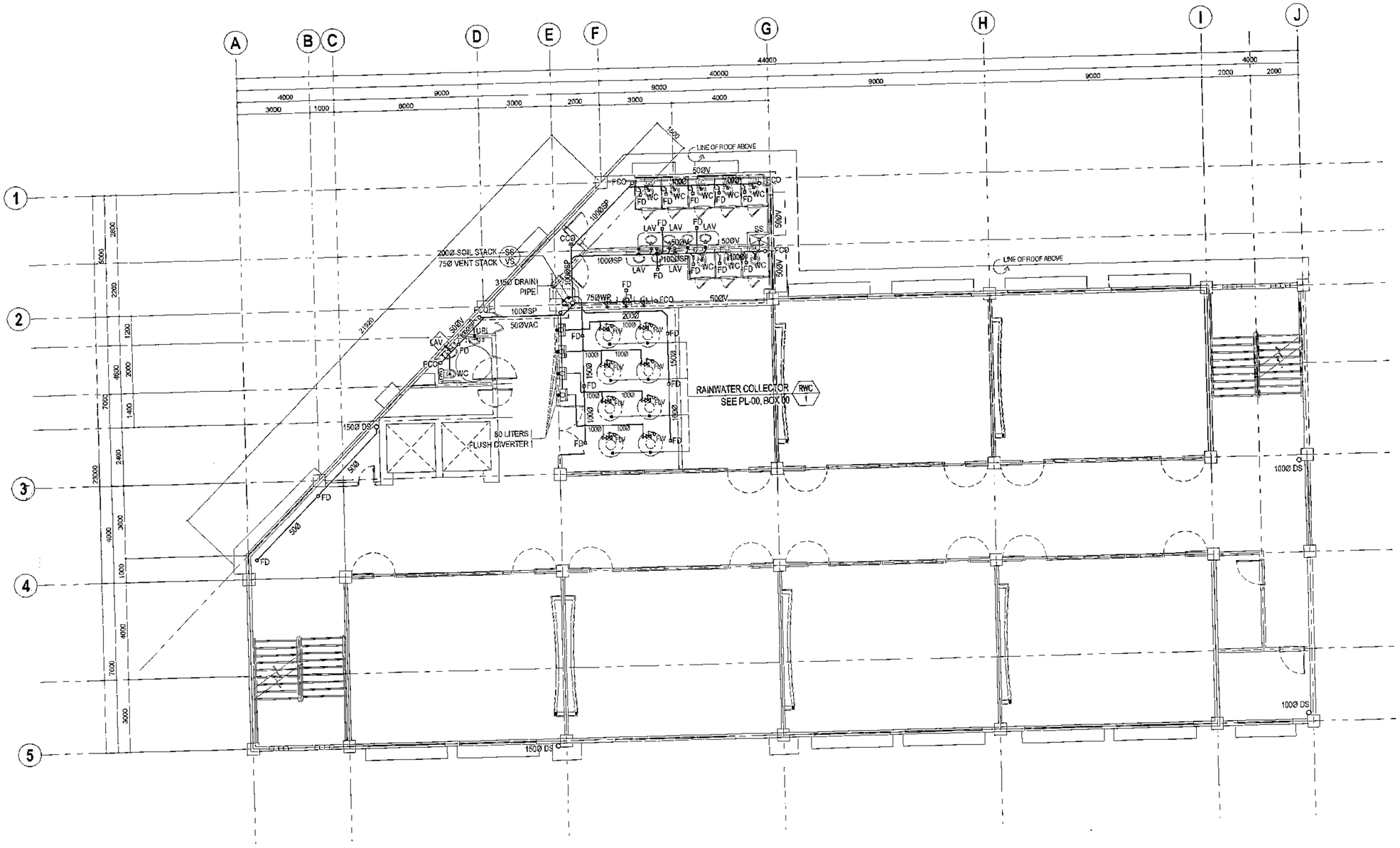
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU: MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
TYPICAL FOURTH FLOOR TO SIXTH FLOOR SANITARY AND STORM - DRAINAGE LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-06



SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

1 SEVENTH FLOOR SANITARY AND STORM DRAINAGE LAYOUT

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

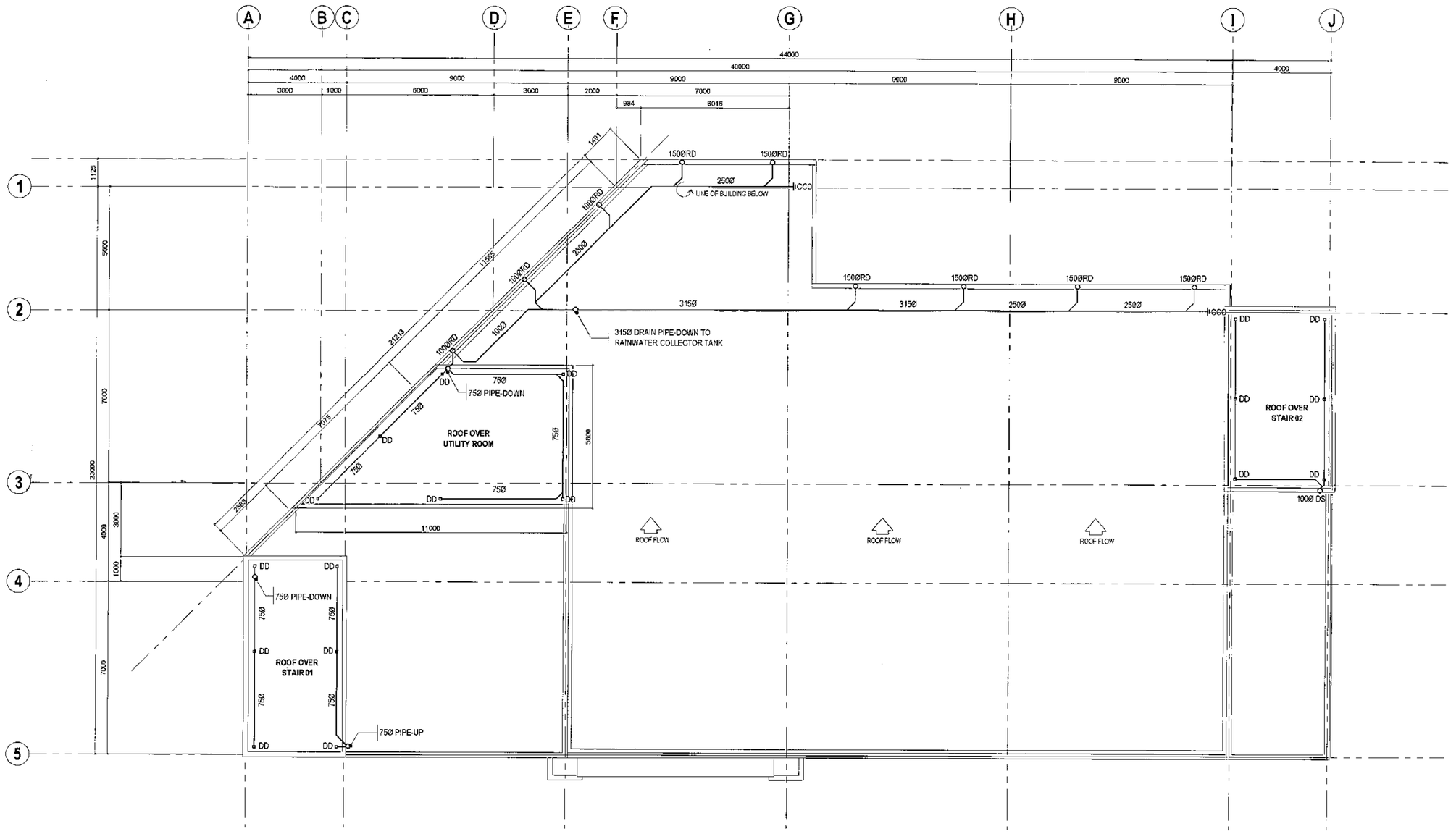
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SEVENTH FLOOR SANITARY AND STORM DRAINAGE LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **PL-07**



1 ROOF STORM DRAINAGE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR

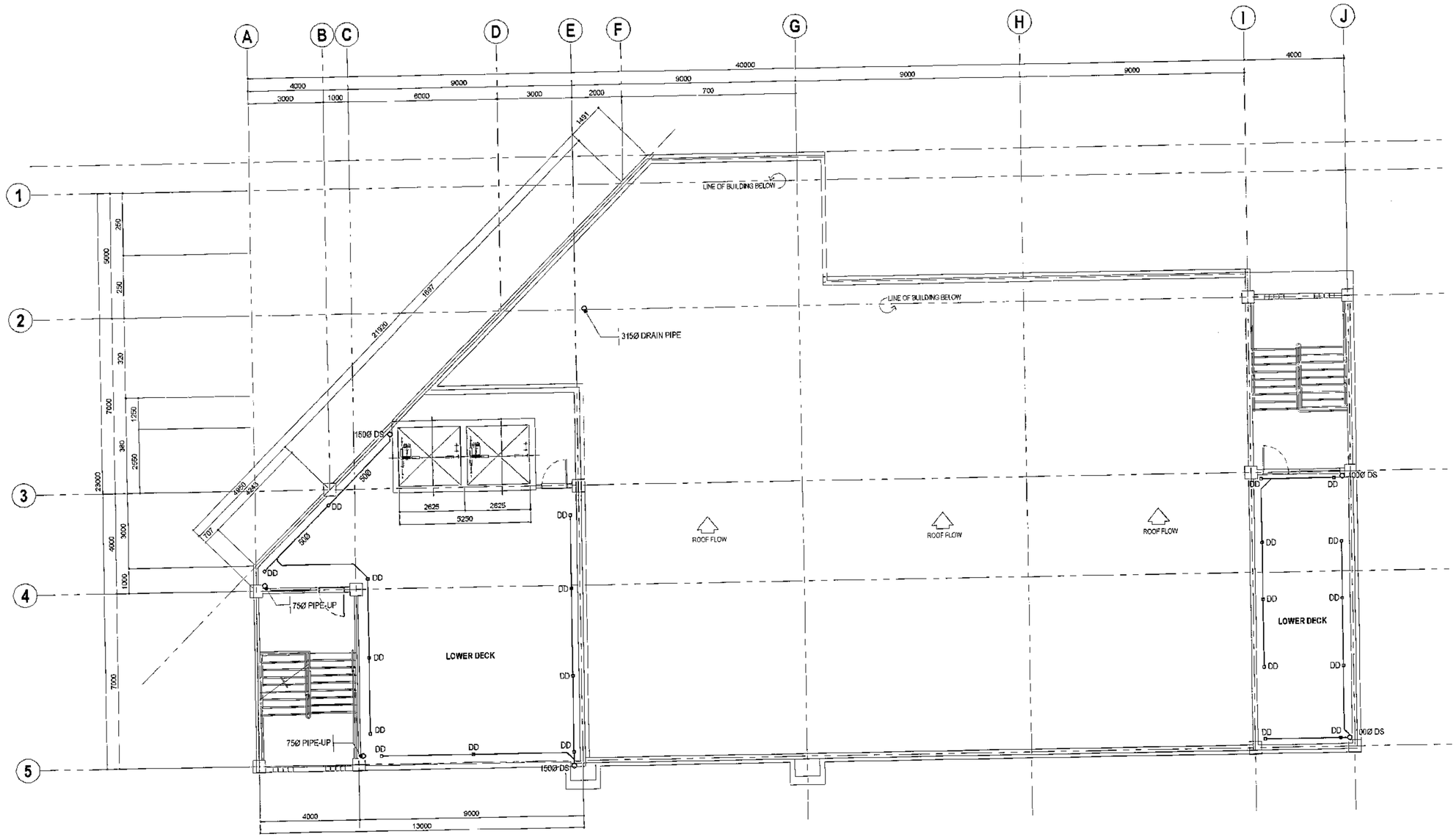
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
ROOF STORM DRAINAGE LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-09



SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

1 ROOF DECK SANITARY AND STORM DRAINAGE LAYOUT

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ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR
Q.C.

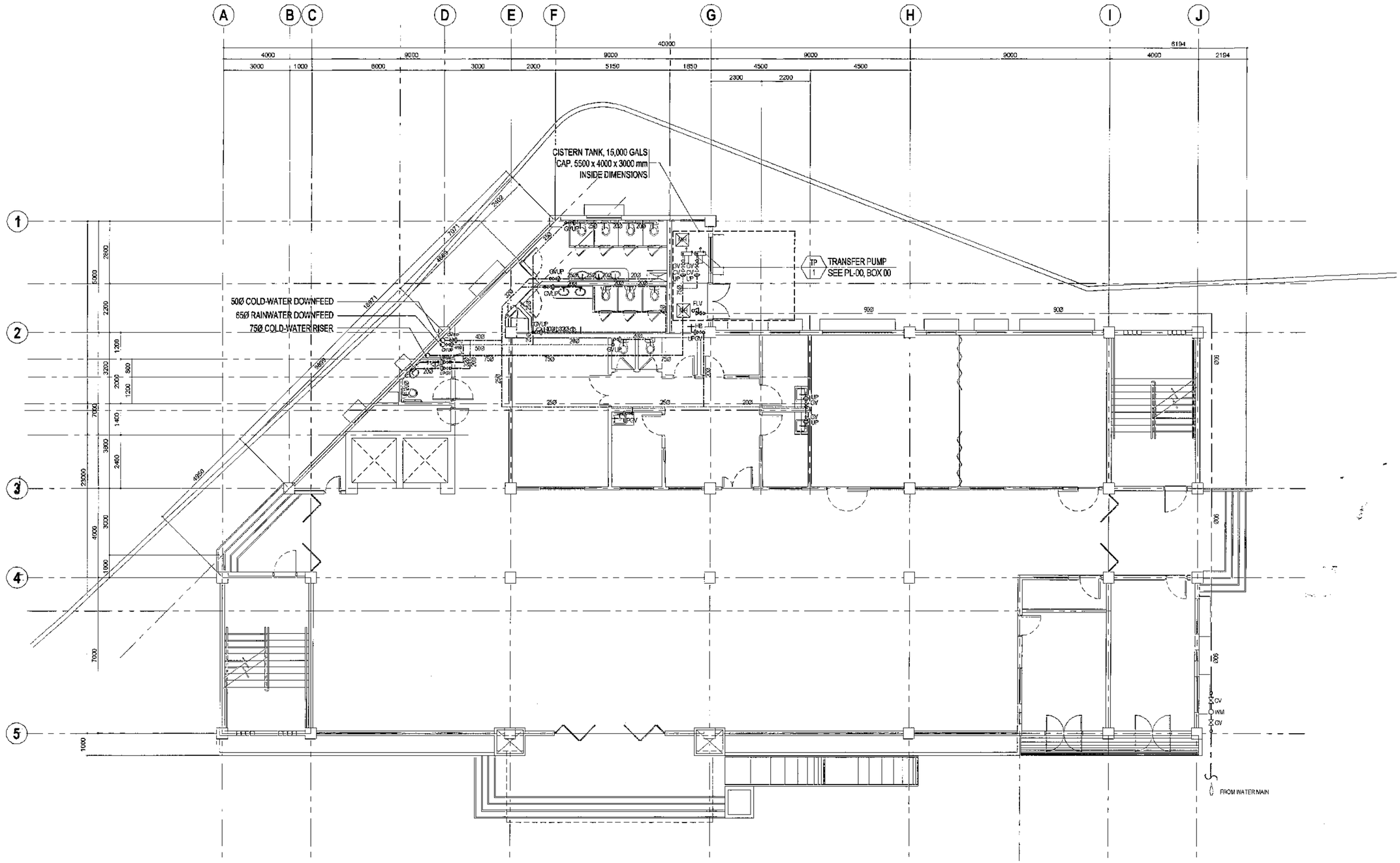
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
ROOF DECK SANITARY AND STORM DRAINAGE LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-08



1 GROUND FLOOR WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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MAYOR

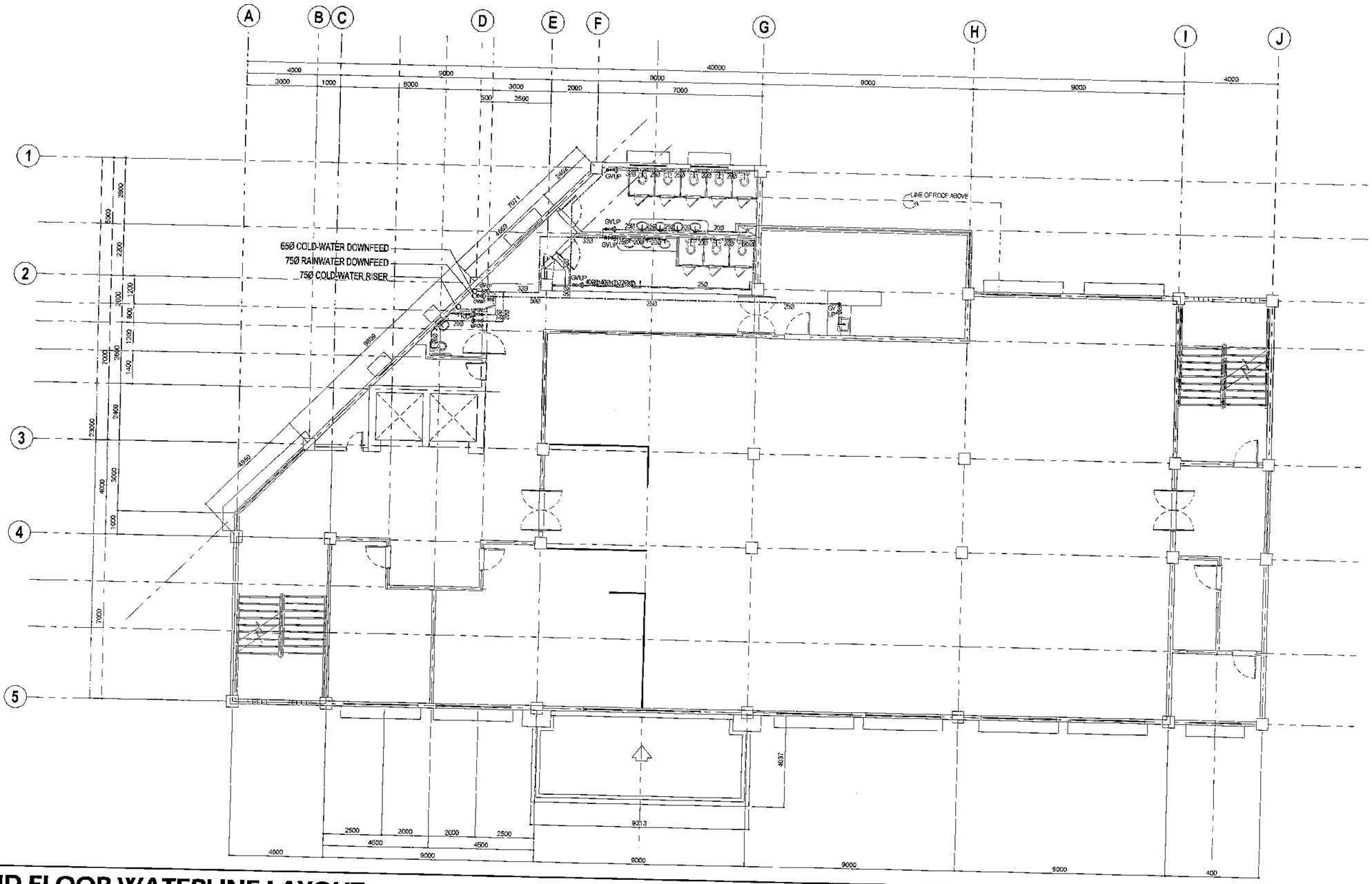
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
GROUND FLOOR WATERLINE LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **PL-10**



1 SECOND FLOOR WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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MAYOR

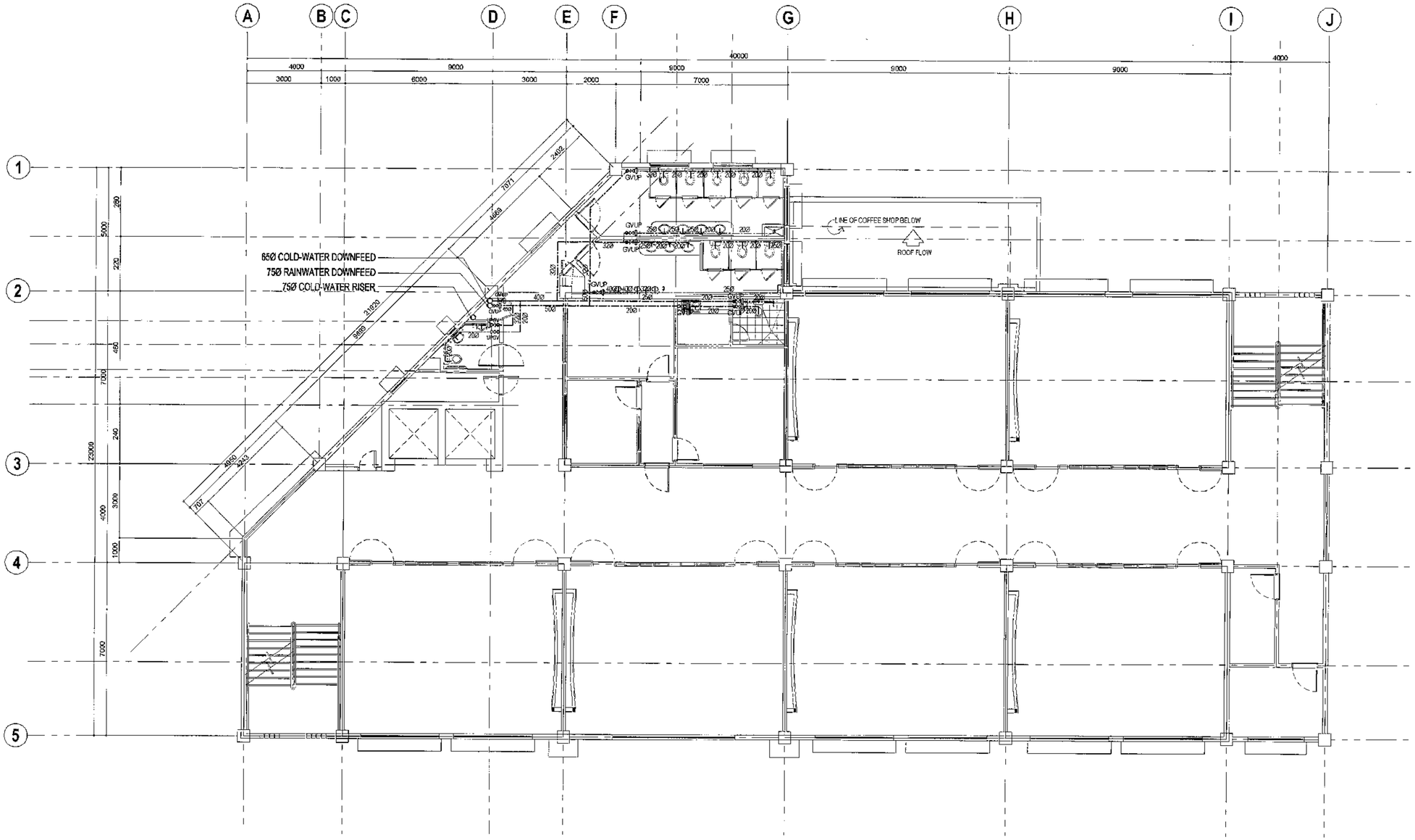
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
SECOND FLOOR WATERLINE LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-11



1 THIRD FLOOR WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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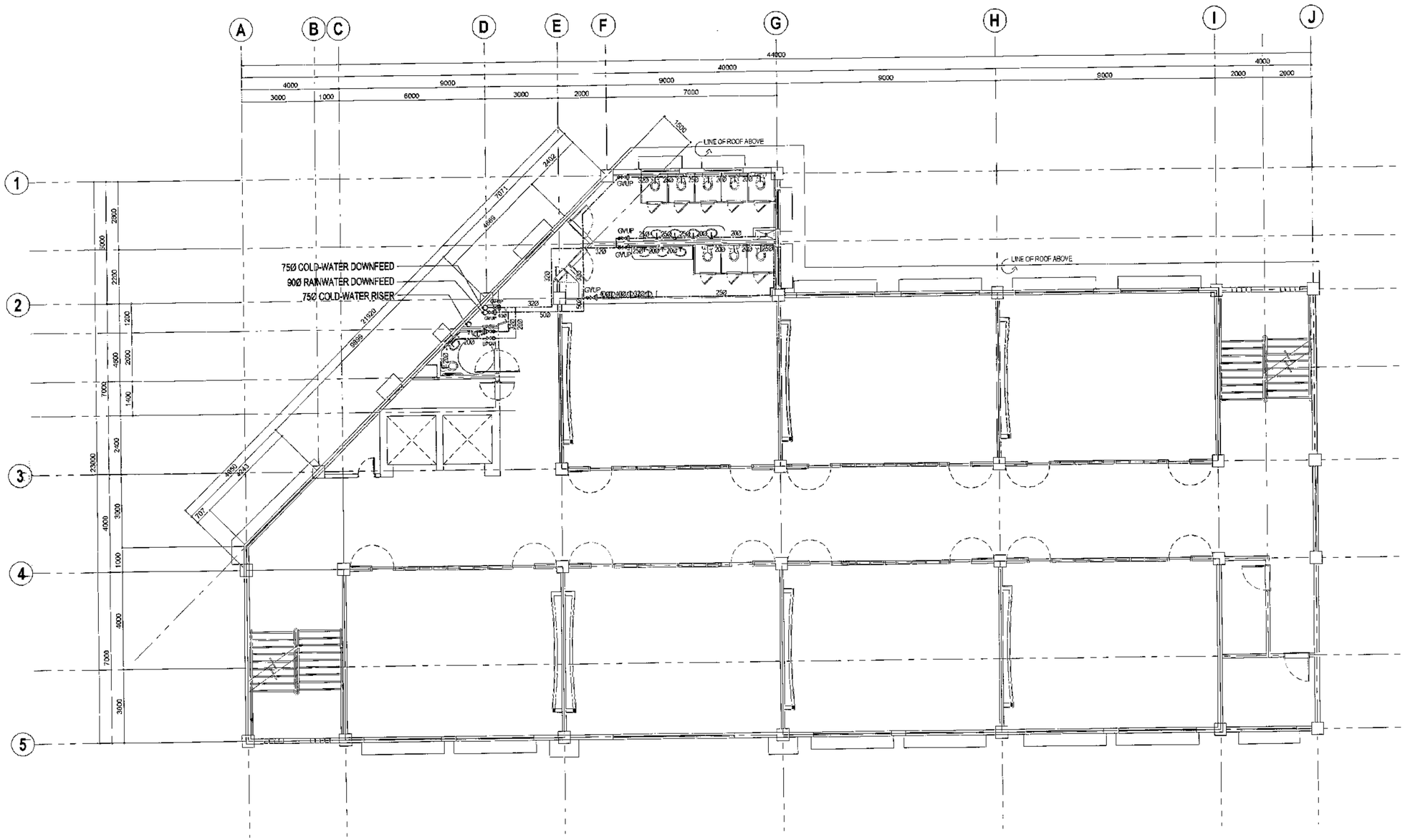
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
THIRD FLOOR WATERLINE LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-12



1 TYPICAL FOURTH FLOOR TO FIFTH FLOOR WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
9F CIVIC CENTER - D (BRO. 89g), QUEZON CITY HALL COMPOUND,
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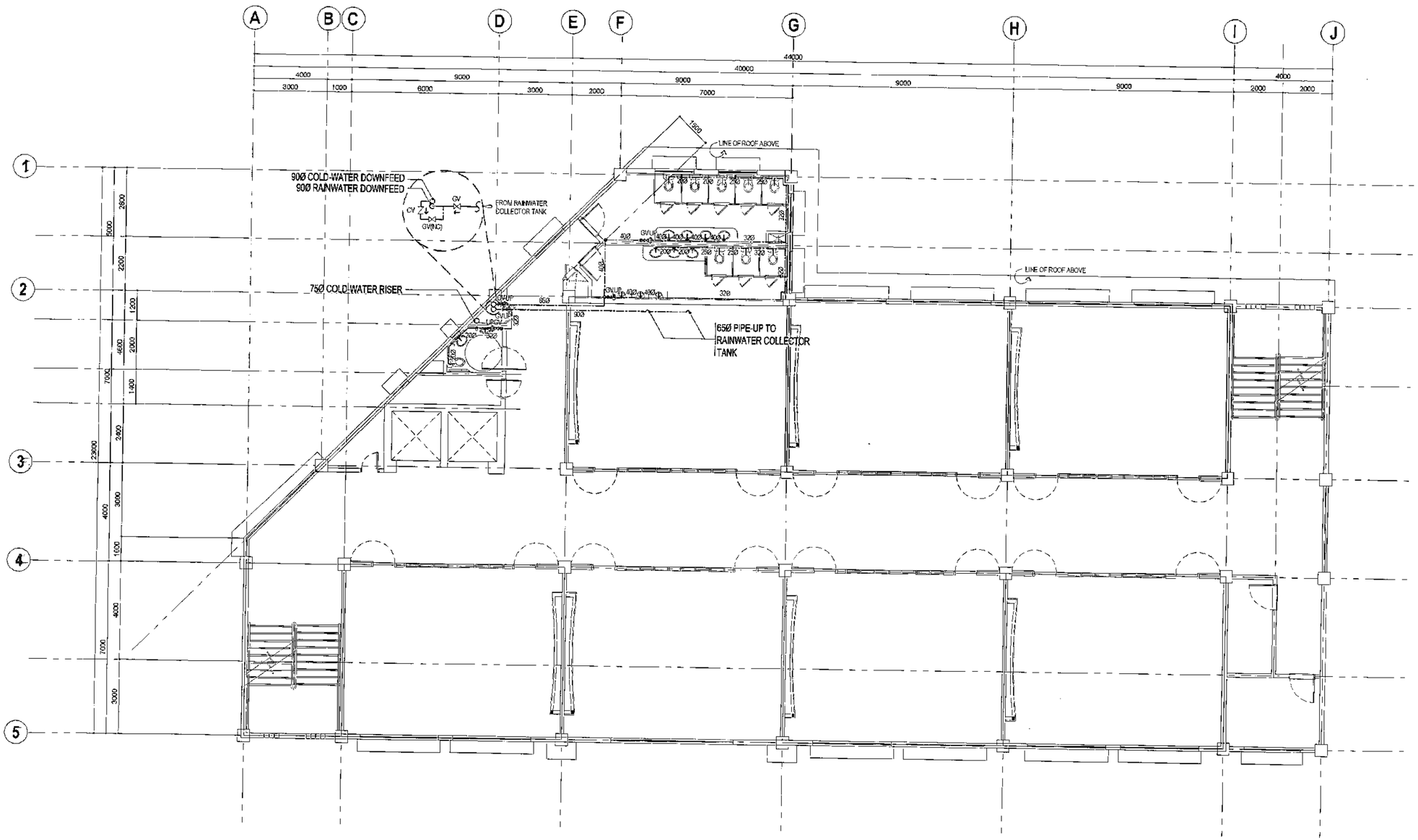
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
TYPICAL FOURTH FLOOR TO FIFTH FLOOR WATERLINE LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-13



1 SIXTH FLOOR WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
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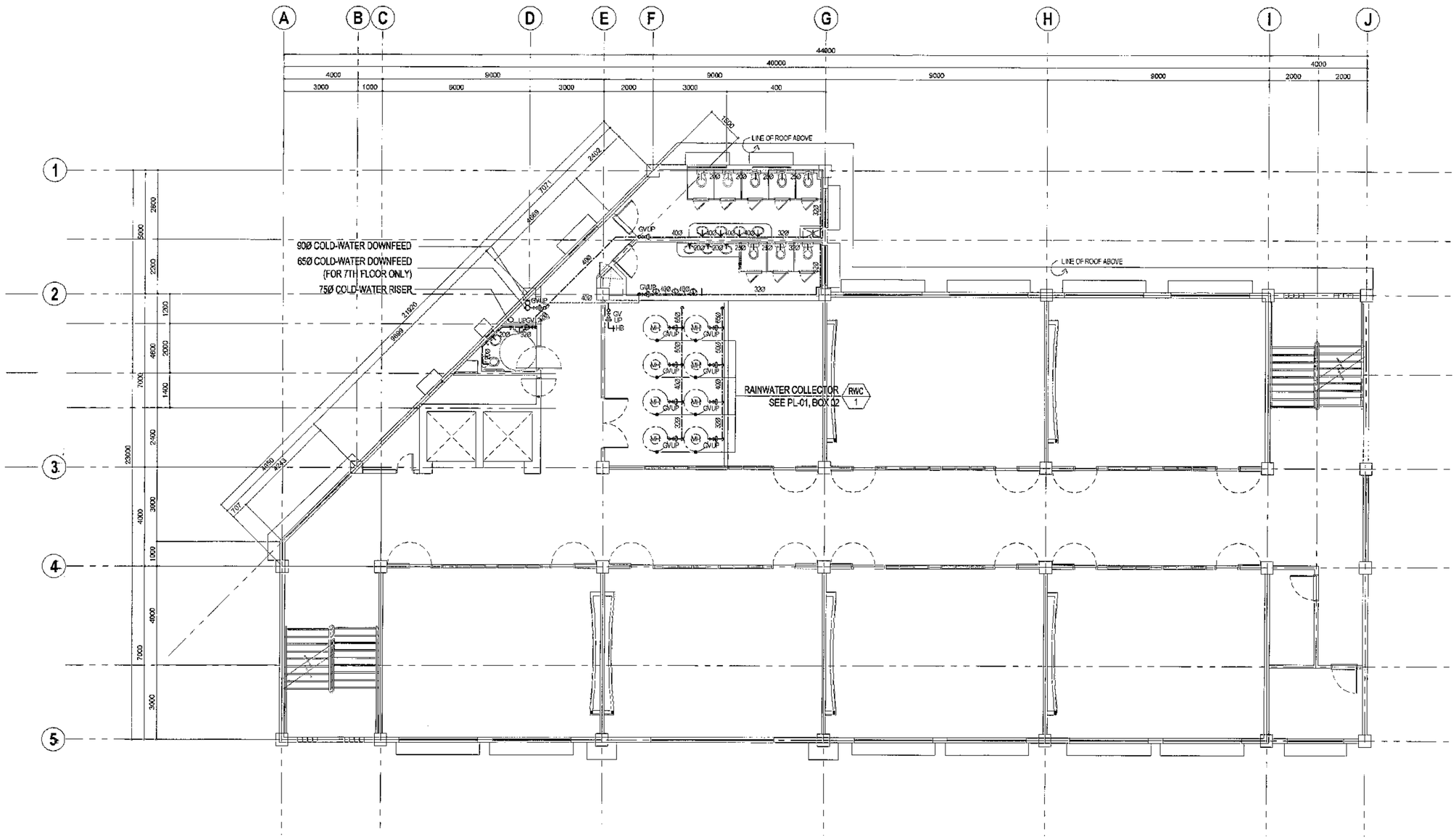
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU® MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SIXTH FLOOR WATERLINE LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-14



1 SEVENTH FLOOR WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
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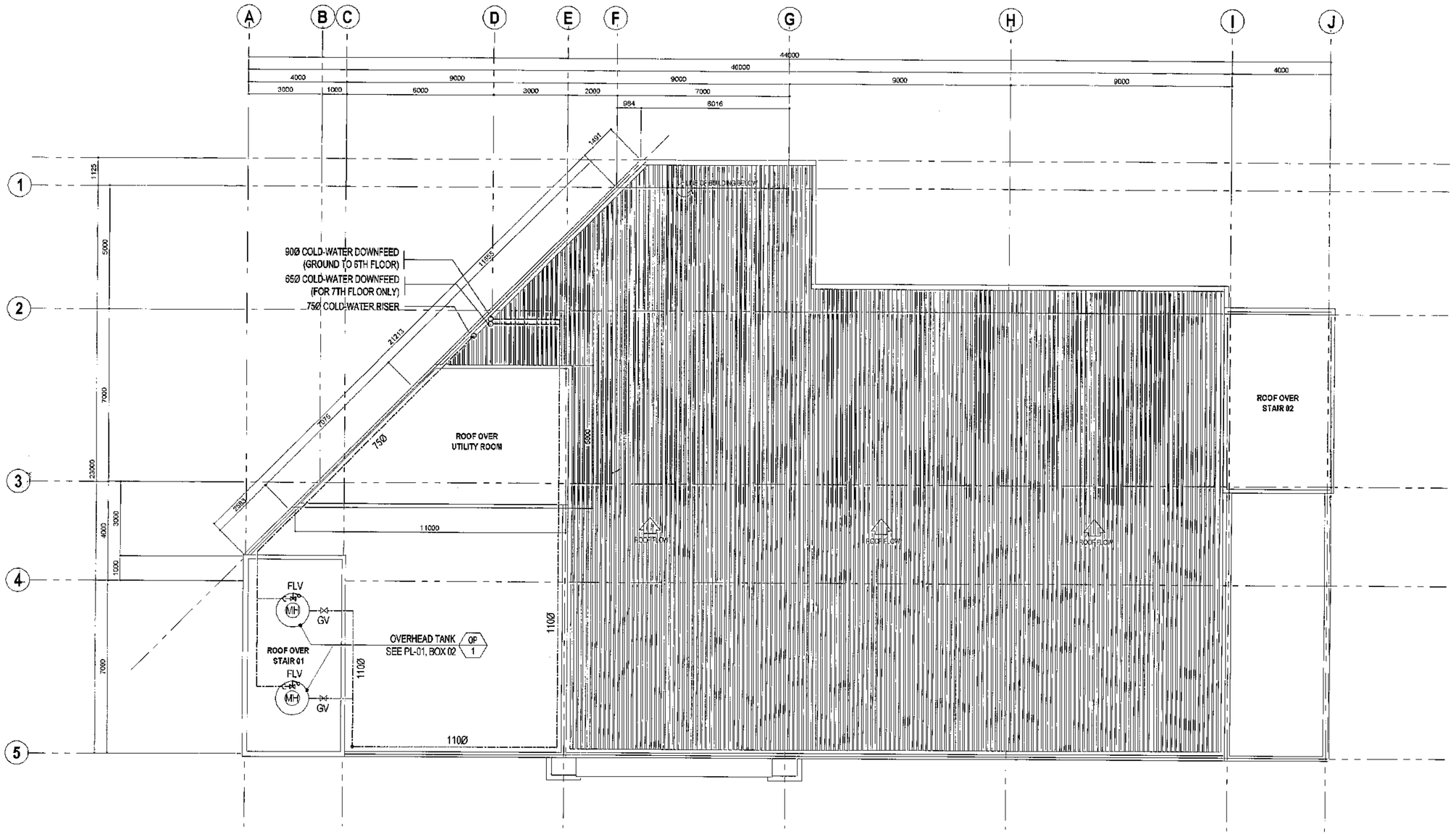
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION: BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SEVENTH FLOOR WATERLINE LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **PL-15**



1 ROOF WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
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MAYOR Q.C.

PROJECT TITLE :
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LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
ROOF WATERLINE LAYOUT

PROJECT NO.:

DATE	November 2020
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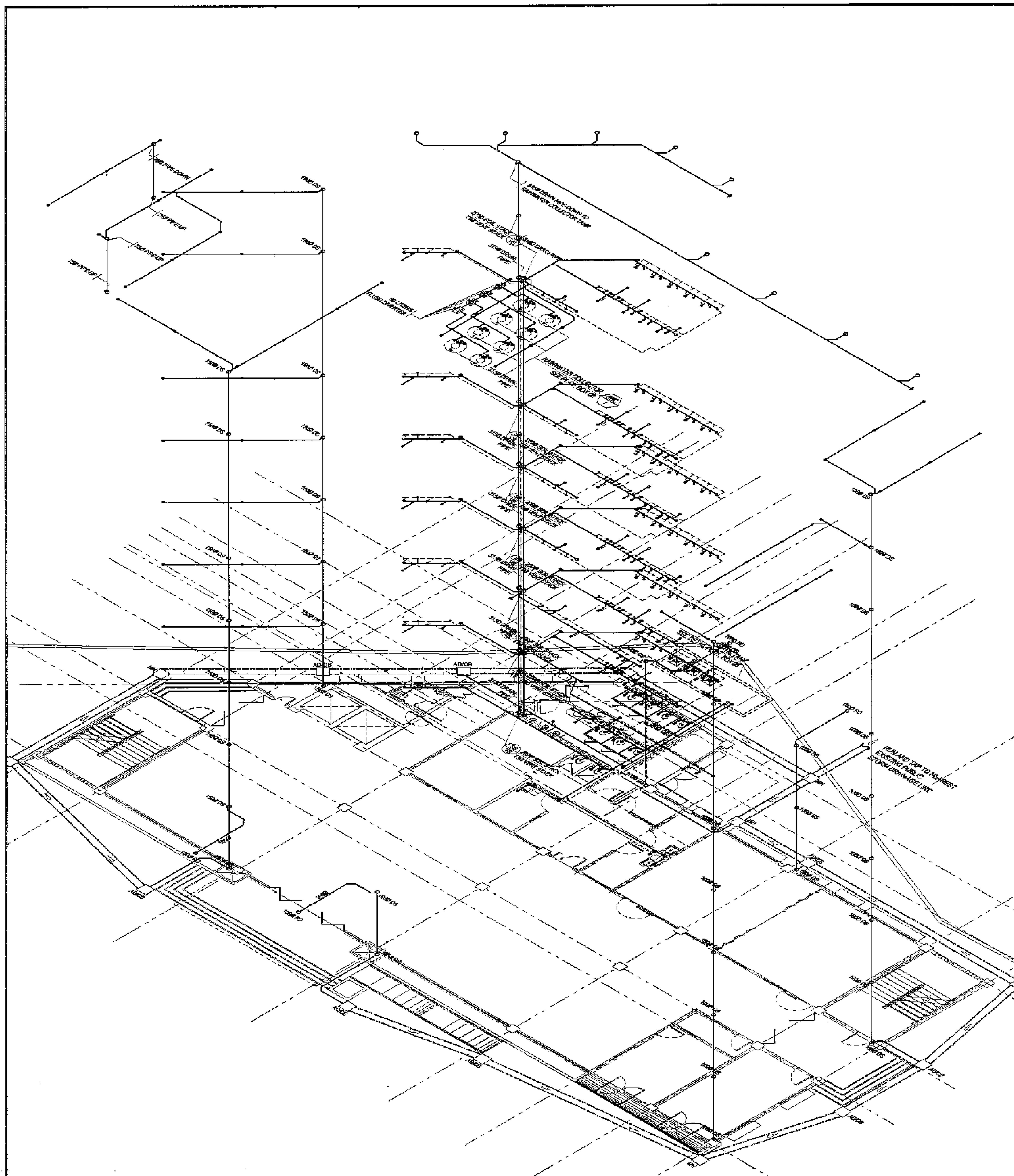
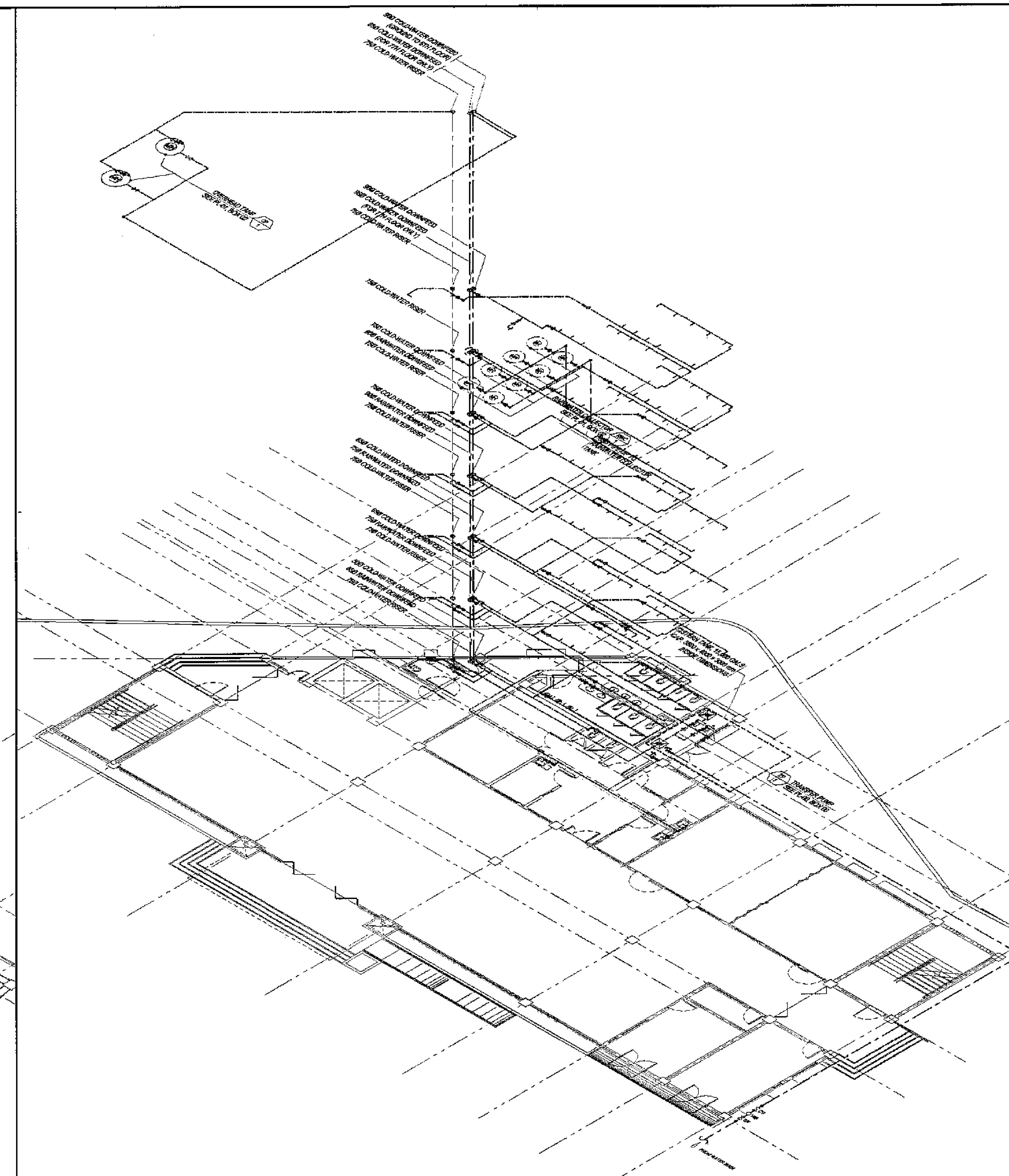
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
PL-16



1 ISOMETRIC VIEW OF SANITARY AND STORM DRAINAGE

NOT TO SCALE



2 ISOMETRIC VIEW OF WATERLINE

NOT TO SCALE

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

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CITY ARCHITECT

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OIC - CITY ENGINEER

APPROVED BY :

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MAYOR Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :

ISOMETRIC VIEW OF SANITARY AND STORM DRAINAGE
ISOMETRIC VIEW OF WATERLINE

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:

PL-17

ALL FIRE PROTECTION WORKS SHALL CONFORM WITH THE LATEST EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES NO. 13 & 20.

READ THE DRAWINGS IN CONNECTION WITH OTHER RELATED DRAWINGS & SPECIFICATIONS.

THE ARCHITECT & ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES FOUND THEREIN.

THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE SPRINKLER HEADS IN COORDINATION WITH THE ARCHITECTURAL CEILING LAYOUT. ANY RELOCATION SHALL BE SUBJECT TO ARCHITECT'S & ENGINEER'S APPROVAL.

ALL DRAIN PIPES FOR INSPECTORS TEST CONNECTION DRAIN VALVES SHALL BE PIPED TO THE NEAREST AREA DRAIN PROVIDED BY THE PLUMBING CONTRACTOR.

PIPE SLEEVES SHALL BE PROVIDED FOR ALL PIPES PASSING THRU SLABS, WALLS, GIRDERS & BEAMS.

MINIMUM PIPE SIZE FOR ALL SPRINKLER HEADS SHALL BE 25mm Ø UNLESS OTHERWISE NOTED.

ALL PIPES ARE IN MILLIMETER UNLESS OTHERWISE NOTED.

WORKMANSHIP: THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST & MOST THOROUGH MANNER KNOWN TO TRADE & TO THE SATISFACTION OF THE ARCHITECT & THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT / LOCAL CONSTRUCTION & OPERATION PERMITS & PAY ALL THE REQUIRED FEES.

REFER TO TECHNICAL SPECIFICATIONS FOR PUMPS & MATERIALS SPECIFICATIONS.

MAINTAIN MINIMUM DISTANCE OF 300mm BETWEEN SPRINKLER HEAD & LIGHTING FIXTURE.

NOTES

SENSORS (FLOW SWITCHES, LOW WATER LEVEL SENSOR, SUPERVISORY SWITCHES, FOR ZONE ACTIVATION SHALL BE INCLUDED IN THE CONTRACT. WIRING FROM THESE DEVICES TO THE SPRINGKLER ANNUNCIATOR PANEL SHALL BE DONE BY ELECTRICAL CONTRACTOR. COORDINATE INSTALLATION WITH THE AFFECTIVE TRADE CONTRACTOR.

OPENING OF THE SPRINGKLER HEAD OR INSPECTOR'S TEST VALVE SHALL CAUSE THE OPERATION OF THE FLOW SWITCH, WHICH SHALL ACTIVATE THE ANNUNCIATOR LIGHT FOR THE SPRINGKLER ZONE INVOLVE AND SHALL CAUSE THE OPERATION OF THE BUILDING FIRE ALARM. (FIRE ALARM CONDITION)

CLOSING OF THE NORMALLY OPEN SUPERVISED VALVE OF THE SPRINGKLER SYSTEM SHAL CAUSE THE SUPERVISORY SWITCH TO OPERATE A TROUBLE ALARM IN THE BUILDING FIRE ALARM SYSTEM (TROUBLE ALARM CONDITITON)

FIRE PUMP RUNNING CONDITION OF THE FIRE PUMP CONTROL PANEL SHALL CAUSE THE OPERATION OF THE BUILDING FIRE ALARM SYSTEM (FIRE ALARM CONDITION)

ACTIVATION OF THE LOW WATER LEVEL SWITCH IN THE STORAGE TANK SHALL CAUSE A TROUBLE ALARM CONDITION IN THE FIRE ALARM SYSTEM.

INSTALLATION OF THE SPRINGKLER SYSTEM SHALL BE IN ACCORDANCE WITH THE NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINGKLER SYSTEM.

INSTALLATION OF FIRE PUMP SHALL BE IN ACCORDANCE WITH NFPA 20 STANDARD FOR THE INSTALLATION OF FIRE PUMPS.

INSTALLATION FIRE PUMPS SHALL BE IN ACCORDANCE WITH THE NFPA 20 40o HOSE VALVES SHALL BE PRESSURE REDUCING TYPE OR SHALL BE PROVIDED WITH PRESSURE RESTRITING DISC.

NON COMBUSTIBLE CEILINGS SHALL BE USED THIS CEILINGS WILL BE USED IN THIS PROJECT. NOTIFY THE CONSULTANT IF SOME TENANTS WILL USE COMBUSTIBLE CEILING. COMBUSTIBLE CEILINGS WILL BE ALLOWED.

NOTES

1. FLOOR CONTROL VALVE AT EACH FLOOR SHALL BE PROVIDED WITH A TAMPER SWITCH. THE TAMPER SWITCH SHALL BE INTERLOCK WITH THE FULLY ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP) FOR GATE VALVE SUPERVISORY MONITORING. SUPERVISORY MONITORING MEANS THAT CLOSING ANY ONE OF THE CONTROL A DISTRICT ALARM SIGNAL TO ONE THE SPECIFIED LOCATED ON THE FACP.

2. WATER FLOW DEVICE OF EACH FLOOR SHALL BE LIKEWISE INTERLOCK WITH THE FACP IN SUCH A MANNER THAT OPERATION OF ONE SPRINKLER WILL ACTIVATE THE ALARM SYSTEM, AND THE LOCATION OF THE OPERATED FLOW DEVICE SHALL BE INDICATED ON THE FACP.

3. ALL CONTROL, DRAIN AND TEST CONNECTION VALVES BE PROVIDED WITH PERMANENTLY MARKED WEATHER PROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS. THE SIGNS SHALL BE SECURED WITH CORROSION-RESISTANT WIRE CHAIN OR OTHER APPROVED MEANS.

4. FIRE DEPARMENT CONNECTION SHALL BE DESIGNATED BY A SIGN HAVING A RAISED LETTERS AT LEASE 25.4mm IN HEIGHT, CAST ON PLATE OR FITTING READING SERVICE DESIGN, e.g. "AUTOSPKR", OPEN SPKR AND STANDPIPE", & "DRY STANDPIPE".

SEQUENCE OF OPERATION

WHEN THE SYSTEM PRESSURE AT THE MAIN DISCHARGE OF LINE DECREASES DUE TO LEAKAGES IN THE PPING SYSYTEM, THE JOCKEY PUMP(JP-1) WILL AUTOMATICALLY START TO MAINTAIN THE PRESSURE IN THE SYSTEM IN ACCORDANCE WITH THE FOLLOWING SET POINTS.

CUT - IN 90 PSI
CUT - OUT 100 PSI

A FURTHER DECREASE IN THE SYSTEM PRESSURE DUE TO THE ACTIVATION OF ONE OR MORE SPRINGKLER HEADS, FIRE HOSE CABINETS WILL CAUSE THE FIRE PUMP (FP-1) TO START AUTOMATICALLY IN ACCORDANCE WITH THE FOLLOWING SET POINTS

CUT - IN 80 PSI
CUT - OUT MANUAL

AN ELECTRICALLY OPERATED AUDIBLE ALARM SHALL BE ACTIVATED WHEN ANY OF THE FOLLOWING CONDITIONS EXIST. AUTOMATICALLY IN ACCORDANCE WITH THE FOLLOWING SET POINTS

a. FIRE PUMP IS RUNNING
b. FIRE PUMP CONTROLLER MAIN SWITCH IS DE-ACTIVATED OR IN MANUAL POSITION
c. POWER FAILURE
d. LOW WATER LEVEL IN THE STORAGE TANK

1 GENERAL NOTES

MATERIALS SPECIFICATION

1. **PIPING SYSTEM**
   PIPE SHALL BE STEEL, SCHEDULE 40, BLACK AND IN ACCORDANCE WITH THE SPECIFICATIONS ASTM A - 120 ORA53.
2. **FITTING SCREWED**
   ALL SHALL BE MALLEABLE IRON, 300 LBS. CLASS BLACK IN ACCORDANCE WITH ANSI B16.3.
   FLANGED
   SHALL BE STEEL, SHORT BODY, 150 LBS. CLASS BLACK IN ACCORDANCE B16.1.
   WELD
   SHALL BE STEEL. STANDARD WEIGHT, BLACK AND IN ACCORDANCE WITH ANSI B.16.9 ASTM A 234 AND ANSIB16.5 / B16.11.
3. **VALVES**
   3.1 **BUTTERFLY VALVE**
   SHALL BE FLANGED, IRON BODY, 175 PSI WORKING PRESSURE, VALVES SHALL BE UL LISTED AND FM APPROVED.
   APPROVED MANUFACTURER - GEM, CENTRAL, KENNEDY & CRANE.
   3.2 **CHECK VALVE**
   SHALL BE FLANGED, SWING TYPE, IRON BODY, BRONZES EAT AND DISC RING, 175PSI WORKING PRESSURE, UL LISTED FM APPROVED.
   3.3 **GATE VALVE**
   GLOBE TYPE, BRONZE BODY, SCREWED, 175 PSI PRESSURE APPROVED MANUFACTURER - CRANE, CENTRAL, GEM.
4. **FIRE DEPARTMENT CONNECTION**
   SHALL BE 100Ø x 65Ø x 65Ø SIAMESE CONNECTION BRASS BODY, BRASS CHAIN & PLUGS. INLET THREADING SHALL BE NATIONAL STANDARD, SAME AS MUNICIPAL FIRE DEPARTMENT CONN. UL LISTED & FM APPROVED.
5. **FIRE HOSE CABINET**
   WALL MOUNTED, 16 GAUGE STEEL BODY ALUMINUM DOOR TRIM WITH LOCK AND KEY, STANDARD SIZE 32" x 27" x 7" AND WIT THE FOLLOWING ACCESSORIES.
   5.1 40Ø ADJUSTABLE FOG NOZZLE UL LISTED & FM APPROVED POWHATTAN, GEM, CENTRAL.
   5.2 40Ø HOSE VALVE UL LISTED & FM APPROVED POWHATTAN, GEM, CENTRAL.
   5.3 HOSE RACK FOR 100 FT. FIRE HOSE AND RACK NIPPLE LOCAL MANUFACTURED.
   5.4 FIRE HOSE, 1½" x 100 FT. SINGLE JACKET, RUBBER LINED HOSE WITH WAX AND GUM TREATMENT UL LISTED & FM APPROVED GEM, CENTRAL.
   5.5 FIRE EXTINGUISHER, ABC DRY POWDER CHEMICAL, 10 LBS. HOSE WITH WAX & GUM TREATMENT UL LISTED & FM APPROVED GEM, CENTRAL.
6. SPRINKLER HEADS
   SHALL BE PENDENT TYPE, UPRIGHT & SIDEWALL POLISH BRASS X WALE NST THREADS CHROMIUM PLATED AND UL LISTED & FM APPROVED. APPROVED MANUFACTURER - GEM, CENTRAL.
7. ALARM CHECK VALVE
   SHALL BE BUTTERFLY WAFER STYLE, IRON BODY, RUBBER SEAL AND 175 PSI PRESSURE RATING. VALVES SHALL BE TESTED AND LISTED BY UL & FM APPROVED MANUFACTURER - GEM, CENTRAL, KENNEDY.

2 MATERIAL SPECIFICATION

NOT TO SCALE

FLOOR DESTINATION	SPRINKLER HEAD						FIRE HOSE CABINET (SET)	FIRE HOSE VALVE (65mm Ø)	FIRE DEPARTMENT CONNECTION 100mm Ø x 65mm Ø x 65mm Ø	ROOF MANIFOLD 100mm Ø x 65mm Ø x 65mm Ø	REMARKS
	UPRIGHT TYPE		PENDENT TYPE		SIDE WALL TYPE						
	ORDINARY 57°C to 77°C	INTERMIDIATE 79°C to 107°C	ORDINARY 57°C to 77°C	INTERMIDIATE 79°C to 107°C	ORDINARY 57°C to 77°C	INTERMIDIATE 79°C to 107°C					
GROUND FLOOR	8		80		4		2	2	2		A SUPPLY OF SPARE SPRINKLERS OF NOT LESS THAN 6 PCS. SHALL BE MAINTAINED ON THE PREMISES SO THAT ANY SPRINKLER THAT HAVE OPERATED OR DAMAGED IN ANY WAY CAN BE REPLACED. PENDENT TYPE SPRINKLER HEAD SHALL BE ACCOMPANIED WITH ESCUTCHEON PLATES. SPRINKLER HEADS SHALL HAVE A ½" Ø NPT TYPE OF THREAD. SEE SPECS FOR TYPE OF FE.
SECOND FLOOR	5		88		4		2	2			
THIRD FLOOR	73		17		4		2	2			
FOURTH FLOOR	79		7		4		2	2			
FIFTH FLOOR	79		7		4		2	2			
SIXTH FLOOR	79		7		4		2	2			
SEVENTH FLOOR	5		82		4		2	2			
LOWER DECK	6									1	
UPPER DECK											
TOTAL	334		288		28		14	14	2	1	

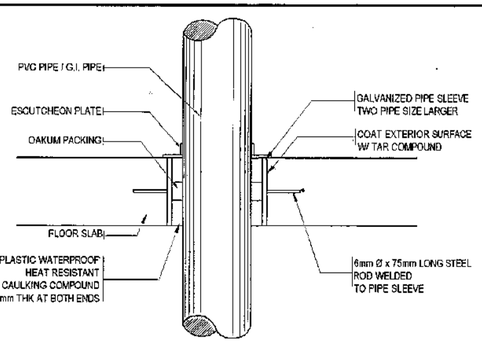
3 LEGEND & SYMBOLS

NOT TO SCALE

	- EQUIPMENT DESIGNATION	FL	-	FIRE LINE
	- FIRE LINE	RM	-	ROOF MANIFOLD
	- PIPE HANGER	RN	-	RISER NIPPLE
	- FIRE HOSE CABINET	ITC	-	INSPECTOR TEST CONNECTION
	- FIRE DEPARTMENT CONNECTION	BIP	-	BLACK IRON PIPE
	- PENDENT SPRINKLER HEAD	CMH	-	CUBIC METER PER HOUR
	- UPRIGHT SPRINKLER HEAD	TDH	-	TOTAL DYNAMIC HEAD
	- SIDEWALL SPRINKLER HEAD	Ø	-	DIAMETER
	- FIRE EXTINGUISHER	M	-	METER
	- FIRE HOSE VALVE	mm	-	MILLIMETER
	- BUTTERFLY VALVE W/ TAMPER SWITCH	KW	-	KILOWATT
	- GATE VALVE / GLOBE VALVE		-	SIGHT GLASS
	- CHECK VALVE		-	FLOW METER
	- OS & Y GATE VALVE		-	PRESSURE GAUGE
	- INSPECTOR TEST CONNECTION		-	WATER FLOW SWITCH
	- WET-STANDPIPE RISER		-	BASKET STRAINER
	- DRY-STANDPIPE RISER		-	TWO-WAY BRACE
	- REDUCER		-	FOUR-WAY BRACE
	- FLEXIBLE CONNECTOR		-	END CAP
	- INSPECTOR TEST CONNECTION		-	DIRECTION OF FLOW
	- FLOAT VALVE		-	UNION PATENT
	- PRESSURE RELIEF VALVE		-	ROOF MANIFOLD
	- ALARM CHECK VALVE		-	FLOOR CONTROL VALVE ASSEMBLY

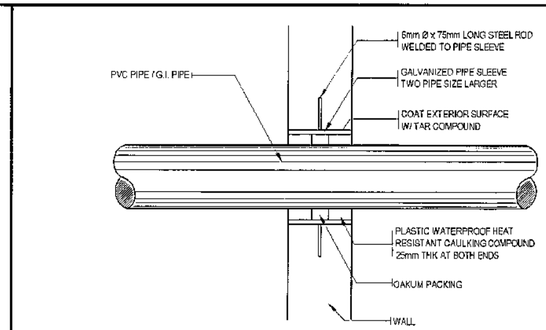
4 EQUIPMENT SCHEDULE

NOT TO SCALE



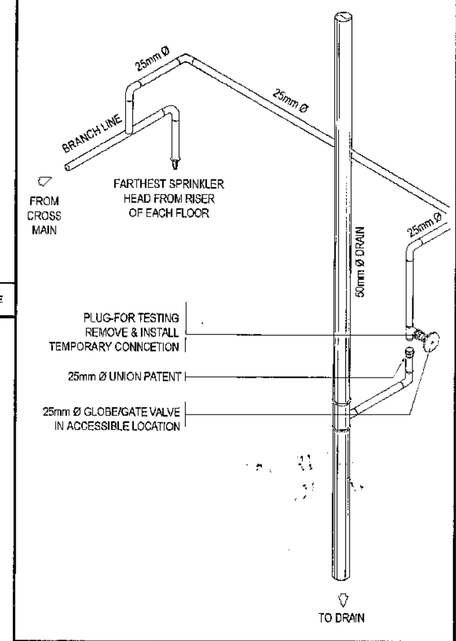
5 DETAIL OF PIPE SLEEVE THRU FLOOR

NOT TO SCALE



6 DETAIL OF PIPE SLEEVE THRU WALL

NOT TO SCALE



7 DETAIL OF INSPECTOR'S TEST PIPE

NOT TO SCALE

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CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER-D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

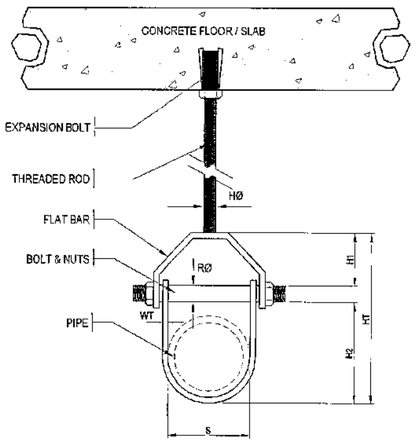
PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
GENERAL NOTES
MATERIAL SPECIFICATION
LEGEND & SYMBOLS
EQUIPMENT SCHEDULE
DETAIL OF PIPE SLEEVE THRU FLOOR
DETAIL OF PIPE SLEEVE THRU WALL
DETAIL OF INSPECTOR'S TEST PIPE

PROJECT NO.:

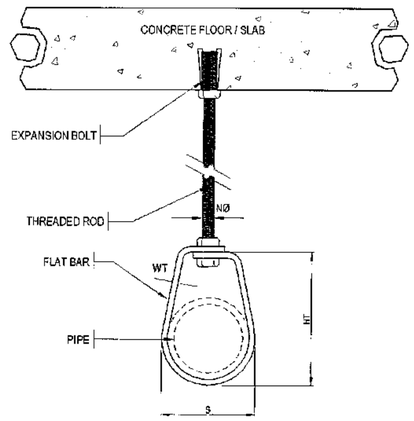
DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao/A.A.T.C
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **FP-01**



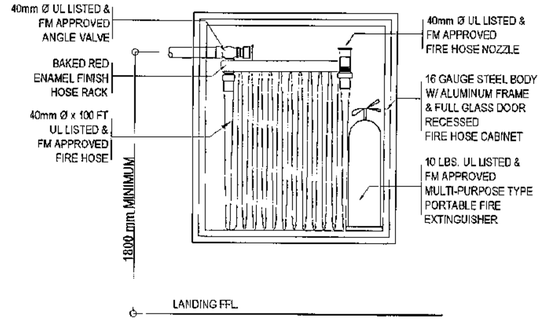
GALVANIZED CLEVIS HANGER								
NOMINAL PIPE SIZE	HT	H1	H2	HØ	RØ	WT	S	MAX. LOAD Recom'd LBS
INCHES	mm	mm	mm	mm	mm	mm	mm	LBS.
2	117.00	70.50	37.00	10.00	5.20	2.10	85.00	810
2 1/2	137.20	80.60	43.00	13.50	8.30	3.00	80.00	1130
3	155.00	96.00	45.50	13.50	8.30	3.00	94.00	1130
4	197.00	135.00	49.00	16.00	8.30	3.00	116.30	1430
6	247.00	182.00	55.50	19.50	11.00	4.00	117.60	1940
8	323.00	235.00	76.00	23.50	14.00	4.20	226.00	2000
10	414.00	291.00	108.00	24.00	17.00	5.50	284.00	3600
12	475.00	343.00	112.50	24.00	17.00	6.00	345.00	3800

1 DETAIL OF GALVANIZED CLEVIS HANGER — NOT TO SCALE

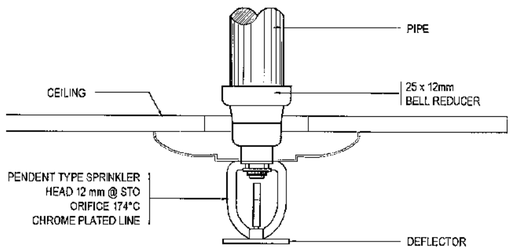


GALVANIZED LOOP HANGER					
NOMINAL PIPE SIZE	WT	S	HT	NØ	MAX. LOAD Recom'd LBS
INCHES	mm	mm	mm	mm	LBS.
1/2	0.80	27.00	64.00	9.50	300
3/4	0.80	31.00	68.00	9.50	300
1	0.80	37.00	68.00	9.50	300
1 1/4	0.80	45.00	76.00	9.50	300
1 1/2	0.80	48.50	84.00	9.50	300
2	1.00	63.00	97.50	9.50	300
4	2.00	116.50	161.00	9.50	650
6	3.00	169.00	234.00	12.70	1250
8	3.00	226.00	305.00	12.70	1250

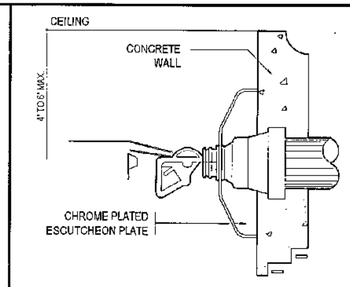
2 DETAIL OF GALVANIZED LOOP HANGER — NOT TO SCALE



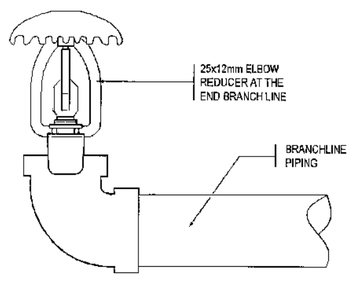
3 DETAIL OF FIRE HOSE CABINET — NOT TO SCALE



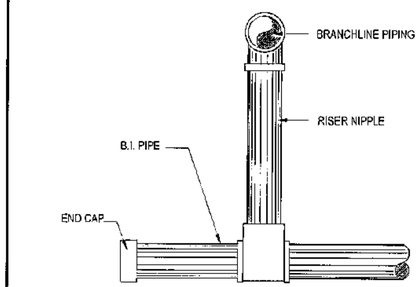
4 PENDENT TYPE SPRINKLER HEAD — NOT TO SCALE



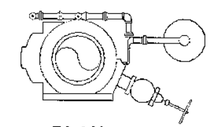
5 SIDE WALL TYPE SPRINKLER HEAD — NOT TO SCALE



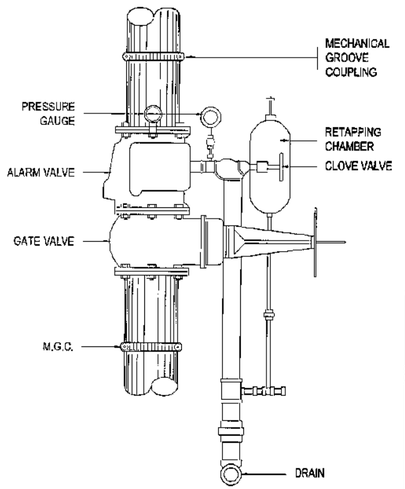
6 UPRIGHT TYPE SPRINKLER HEAD — NOT TO SCALE



7 DETAIL OF FLUSHING CONNECTION — NOT TO SCALE

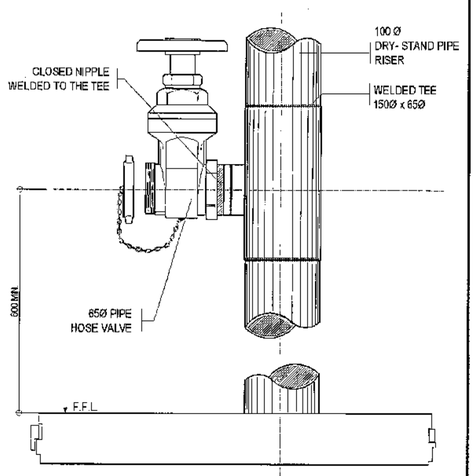


PLAN

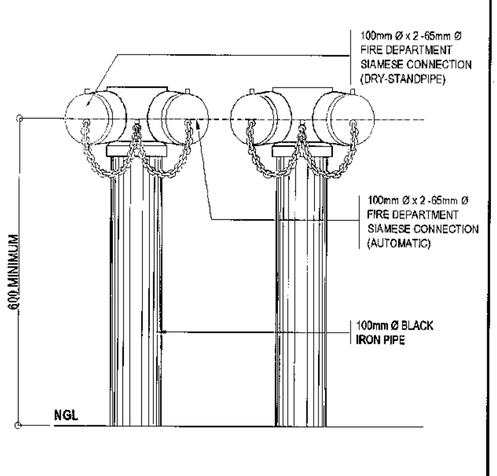


SECTION

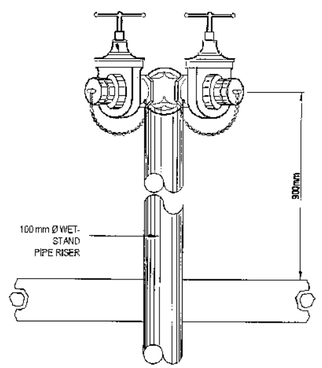
12 SET-UP VALVE ALARM DETAIL — NOT TO SCALE



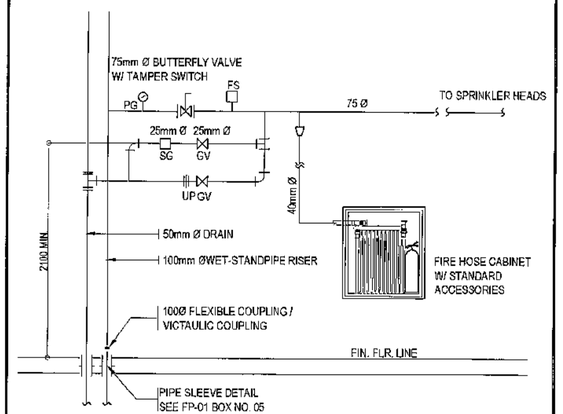
8 DETAIL OF FIRE HOSE VALVE — NOT TO SCALE



9 DETAIL OF SIAMESE CONNECTION — NOT TO SCALE



10 DETAIL OF ROOF MANIFOLD — NOT TO SCALE



11 TYPICAL GROUND TO 7TH FLOOR CONTROL VALVE DETAIL — NOT TO SCALE

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RECOMMENDING APPROVAL:
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT
Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

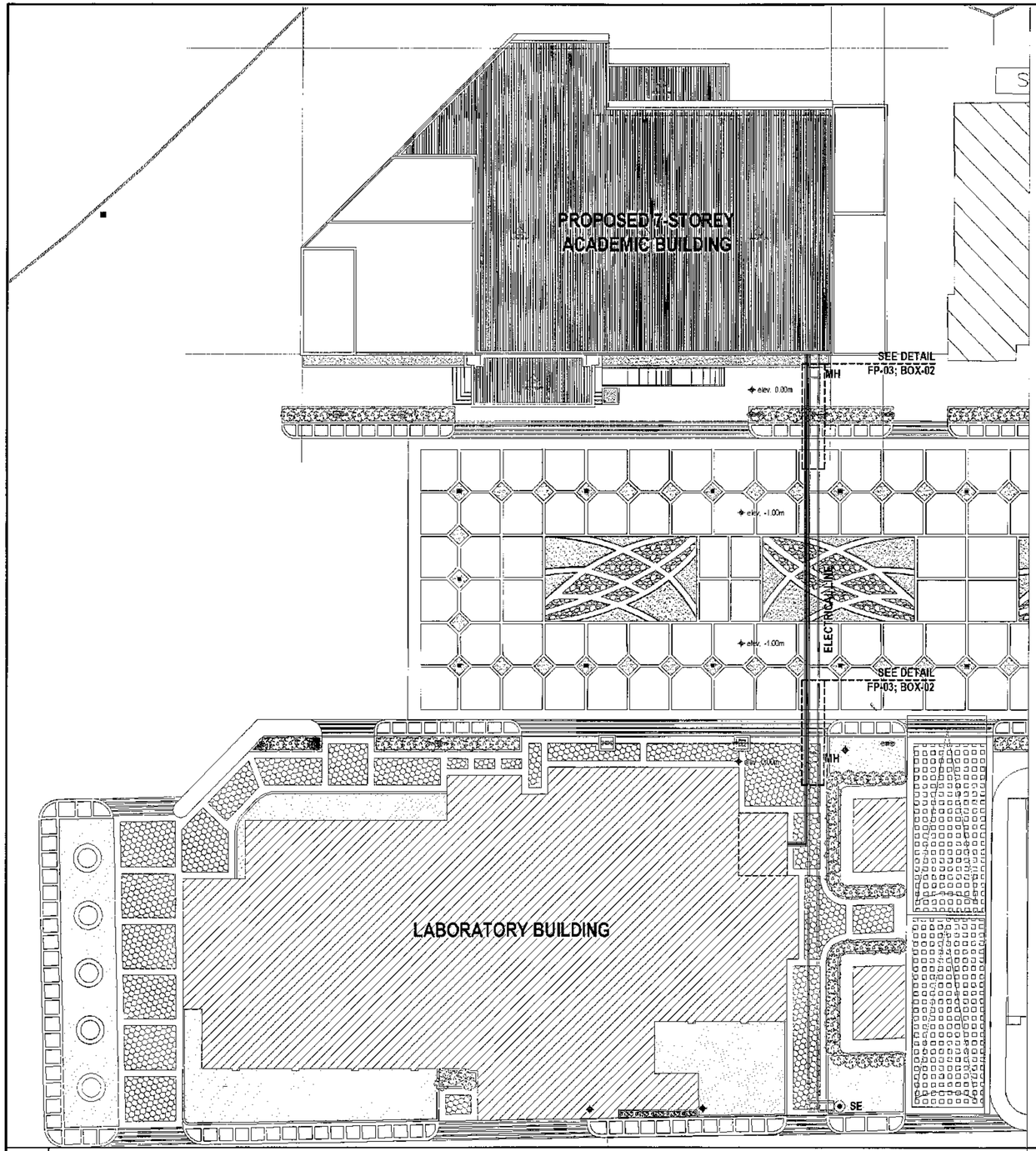
APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
DETAIL OF GALVANIZED CLEAVES HANGER
DETAIL OF GALVANIZED LOOP HANGER
DETAIL OF FIRE HOSE CABINET
DETAIL OF PENDENT HEAD
SIDE WALL SPRINKLER HEAD
DETAIL OF UPRIGHT HEAD
DETAIL OF FLUSHING CONNECTION
DETAIL OF FIRE HOSE VALVE
DETAIL OF SIAMESE CONNECTION
DETAIL OF ROOF MANIFOLD
TYPICAL GROUND TO 7TH FLOOR CONTROL VALVE DETAIL
SET- UP VALVE ALARM DETAIL

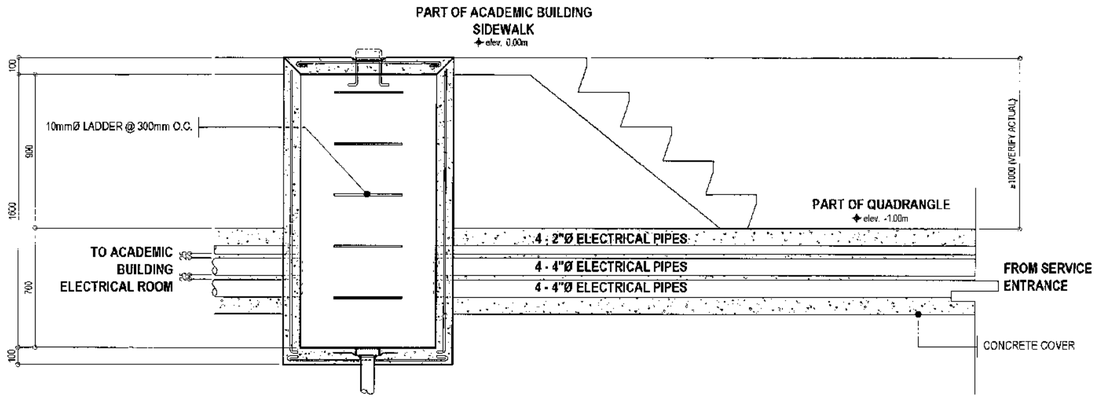
PROJECT NO.:	
DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao/A.A.T.C
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **FP-02**

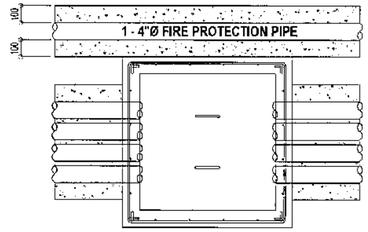


1 SITE DEVELOPMENT PLAN

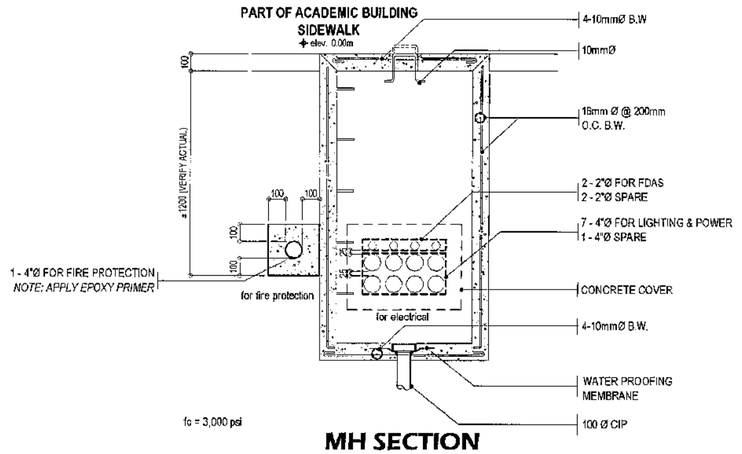
NOT TO SCALE



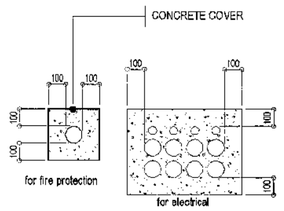
DETAIL OF CHANGE IN ELEVATION



MH PLAN



MH SECTION



CONCRETE COVER DETAIL

2 DETAIL OF MANHOLE FOR ELECTRICAL

SCALE 1:20 METERS

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CITY ARCHITECT DEPARTMENT
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RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, ruap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA, Jr.
OIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

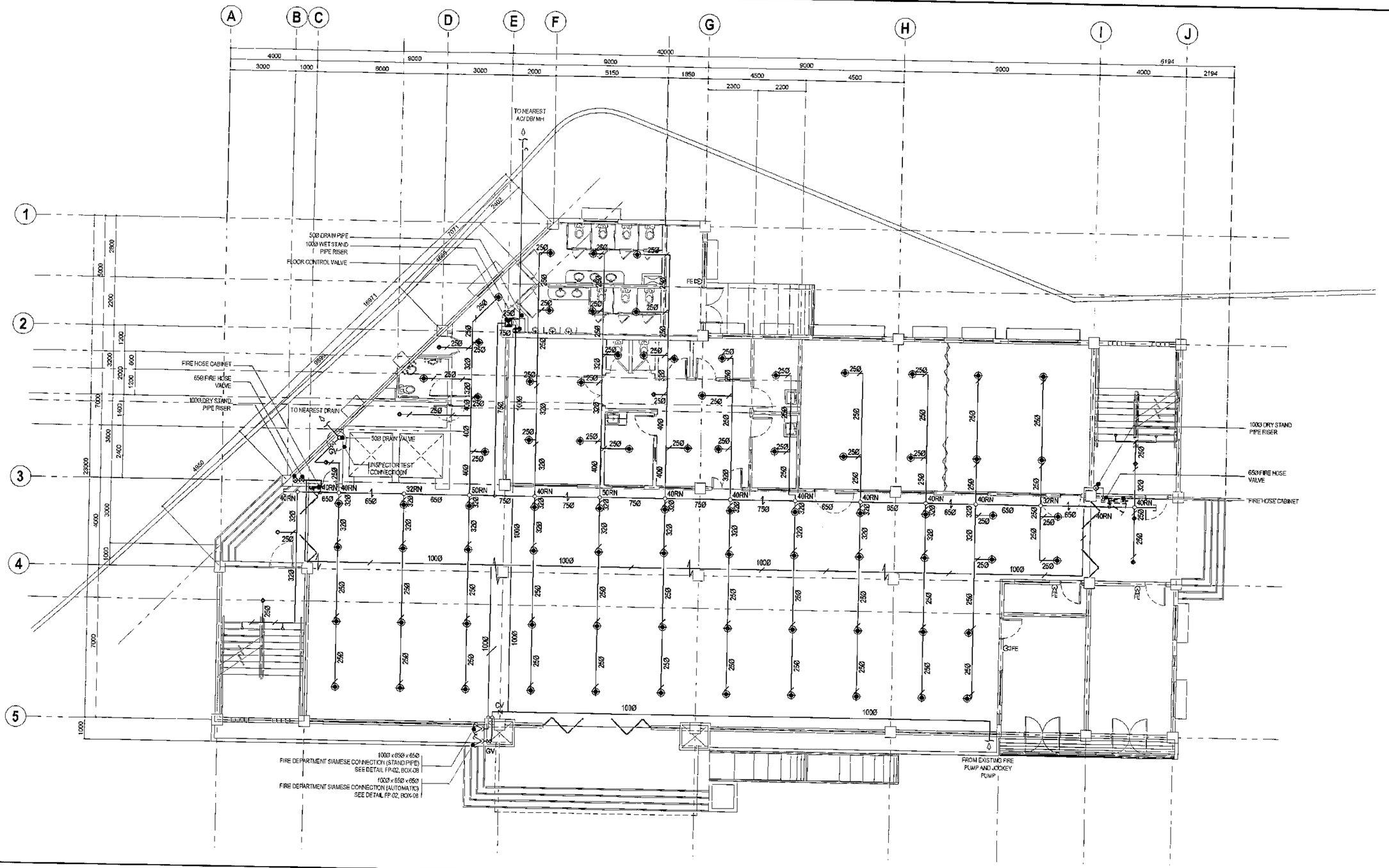
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SITE DEVELOPMENT PLAN
DETAIL OF MANHOLE FOR ELECTRICAL

PROJECT NO.:

DATE	November 2020
DRAWN BY	Ar. J.L.P
DESIGNED BY	Engr. E.R.Sibucao/A.A.T.C.
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **FP-03**



1 GROUND FLOOR FIRE PROTECTION LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA,fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

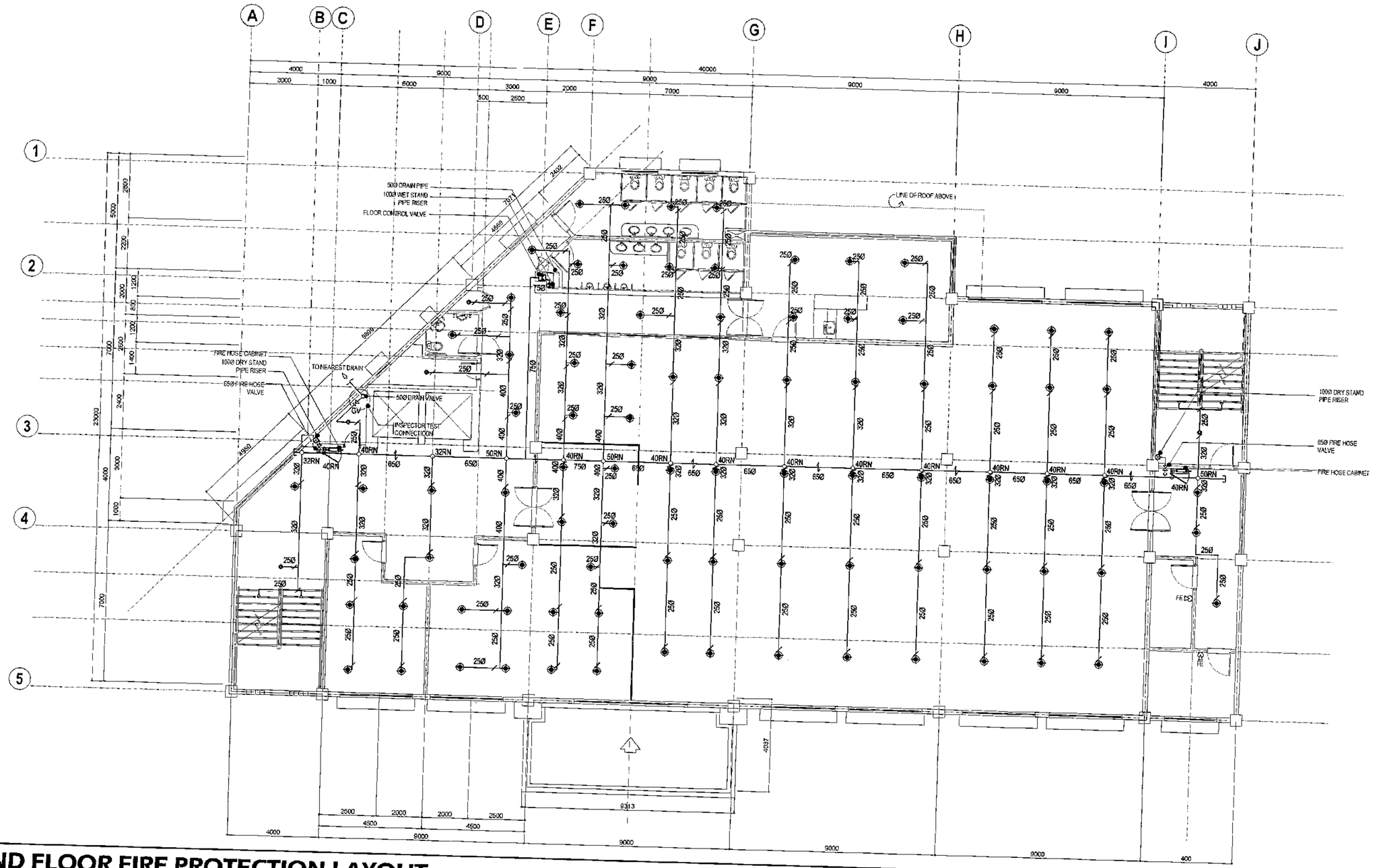
HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
GROUND FLOOR FIRE PROTECTION LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao/A.A.T.C
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
FP-04



1 SECOND FLOOR FIRE PROTECTION LAYOUT

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Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
SF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL:

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

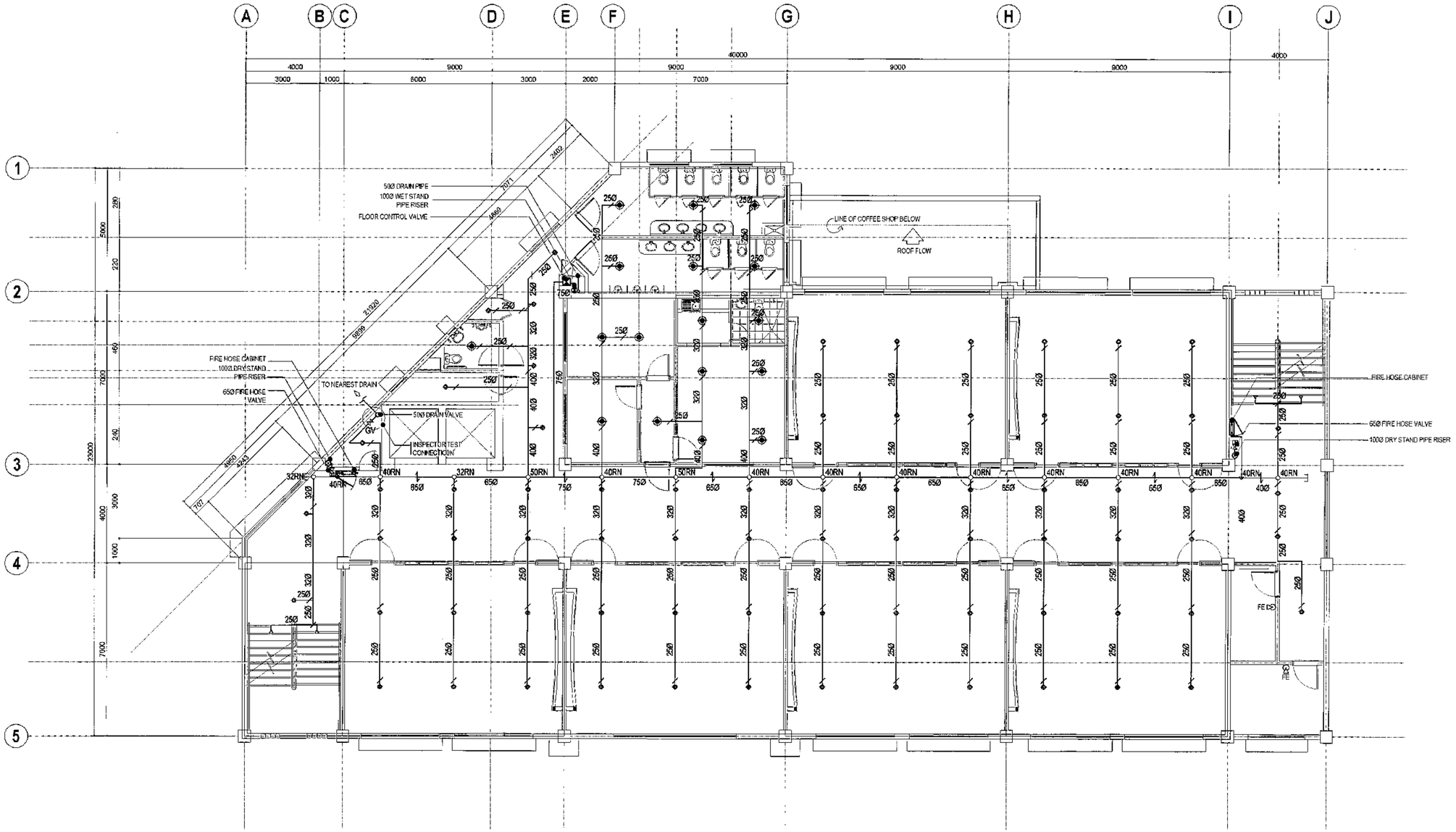
SHEET CONTENTS:
SECOND FLOOR FIRE PROTECTION LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

PROJECT NO.:

SHEET NO.: **FP-05**

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao/A.A.T.C
CHECKED BY	Engr. E.R.Sibucao



1 THIRD FLOOR FIRE PROTECTION LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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CITY ARCHITECT DEPARTMENT
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RECOMMENDING APPROVAL:
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CITY ARCHITECT

Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER

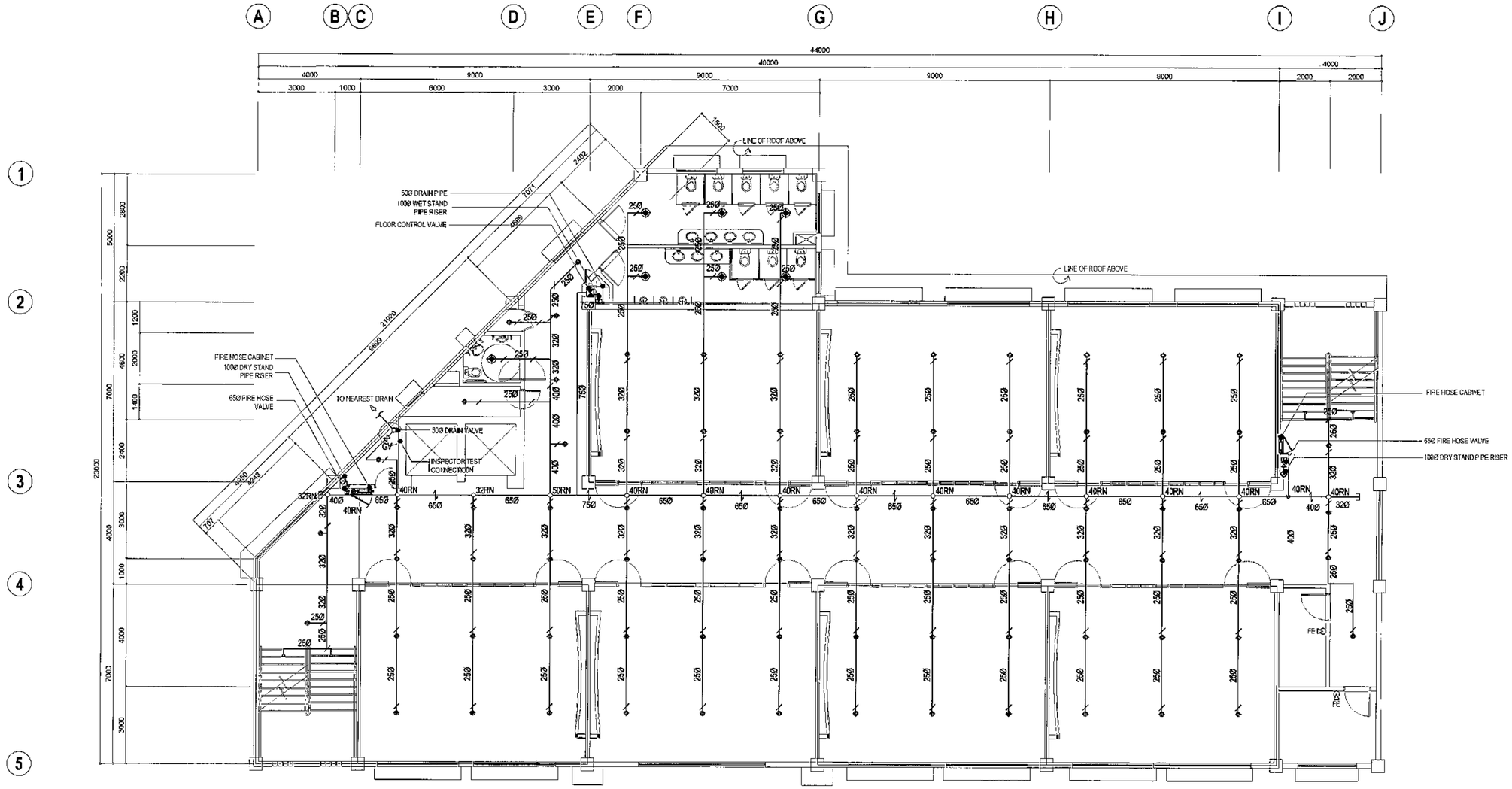
APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
THIRD FLOOR FIRE PROTECTION LAYOUT

PROJECT NO.:	
DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao/A.A.T.C
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: FP-06



1 TYPICAL FOURTH FLOOR TO SIXTH FLOOR FIRE PROTECTION LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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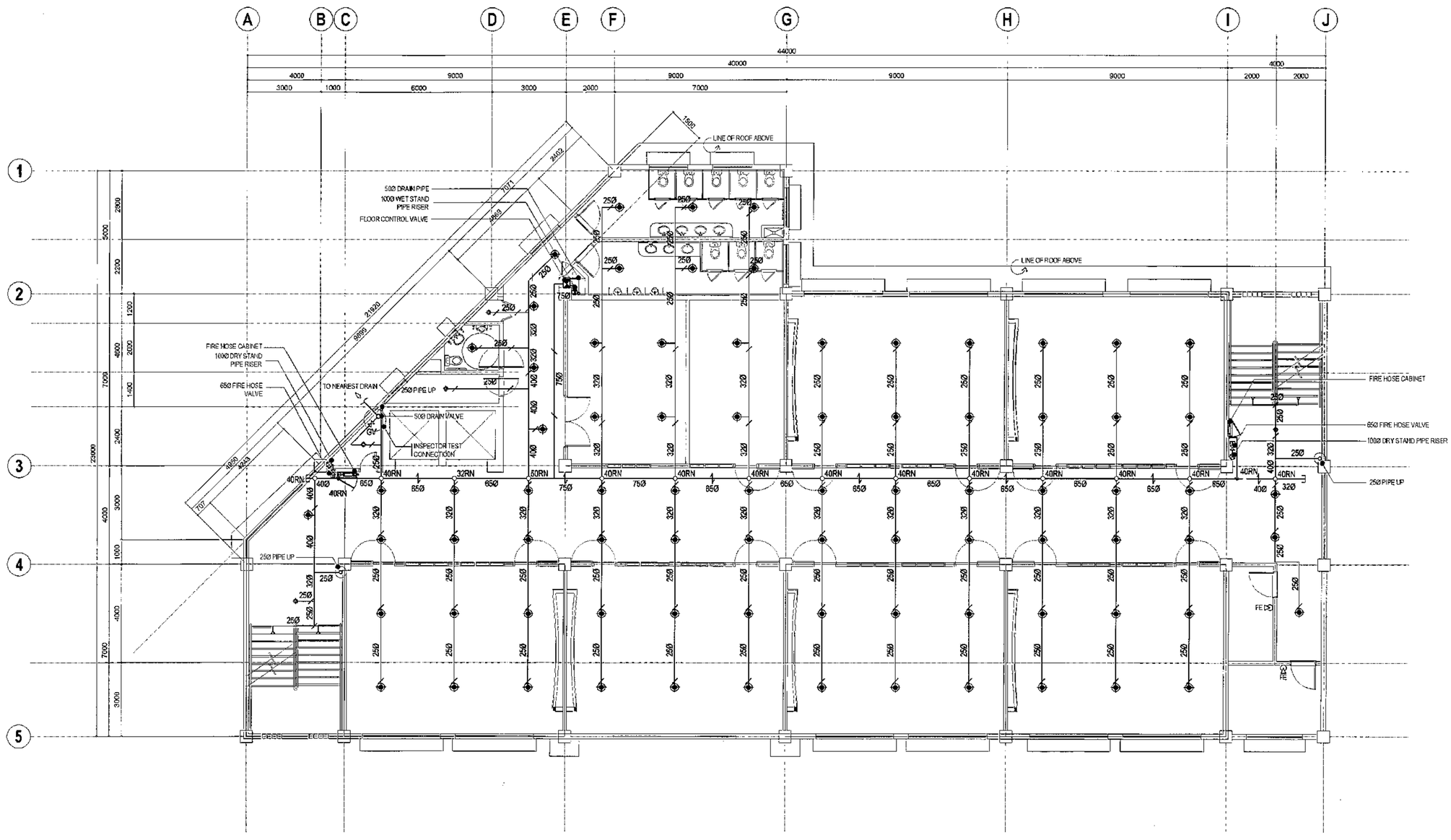
PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
TYPICAL FOURTH FLOOR TO SIXTH FLOOR FIRE PROTECTION LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
DESIGNED BY	Engr. E.R.Sibucao/A.A.T.C
CHECKED BY	Engr. E.R.Sibucao

SHEET NO.: **FP-07**



1 SEVENTH FLOOR FIRE PROTECTION LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU'S MAIN CAMPUS (PHASE 2)

LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
SEVENTH FLOOR FIRE PROTECTION LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
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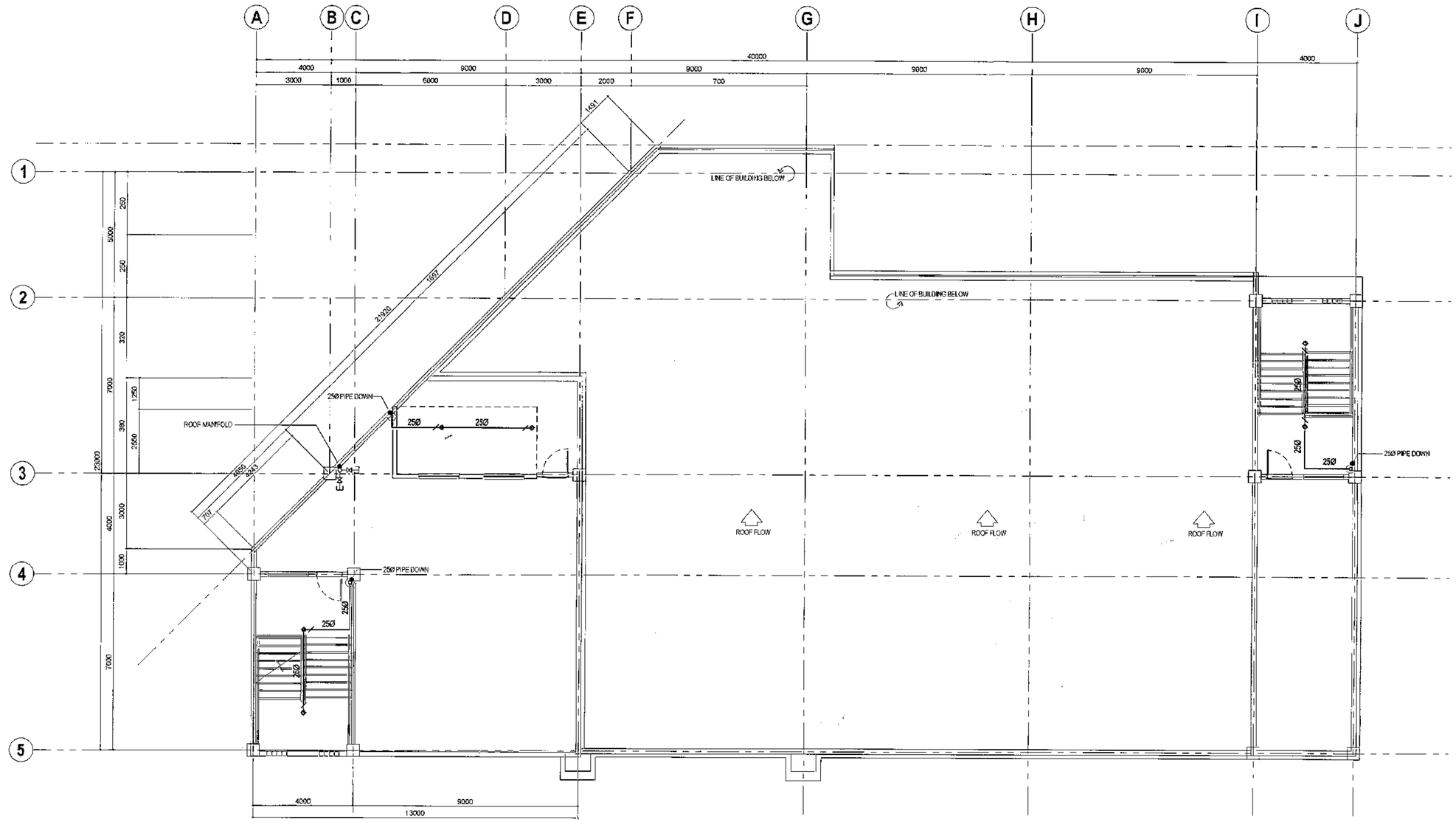
SHEET NO.:
FP-08



1 ROOF DECK FIRE PROTECTION LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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MAYOR Q.C.

PROJECT TITLE :
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU, MAIN CAMPUS (PHASE 2)
LOCATION : BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS :
ROOF DECK FIRE PROTECTION LAYOUT

PROJECT NO.:

DATE	November 2020
DRAWN BY	MSBF
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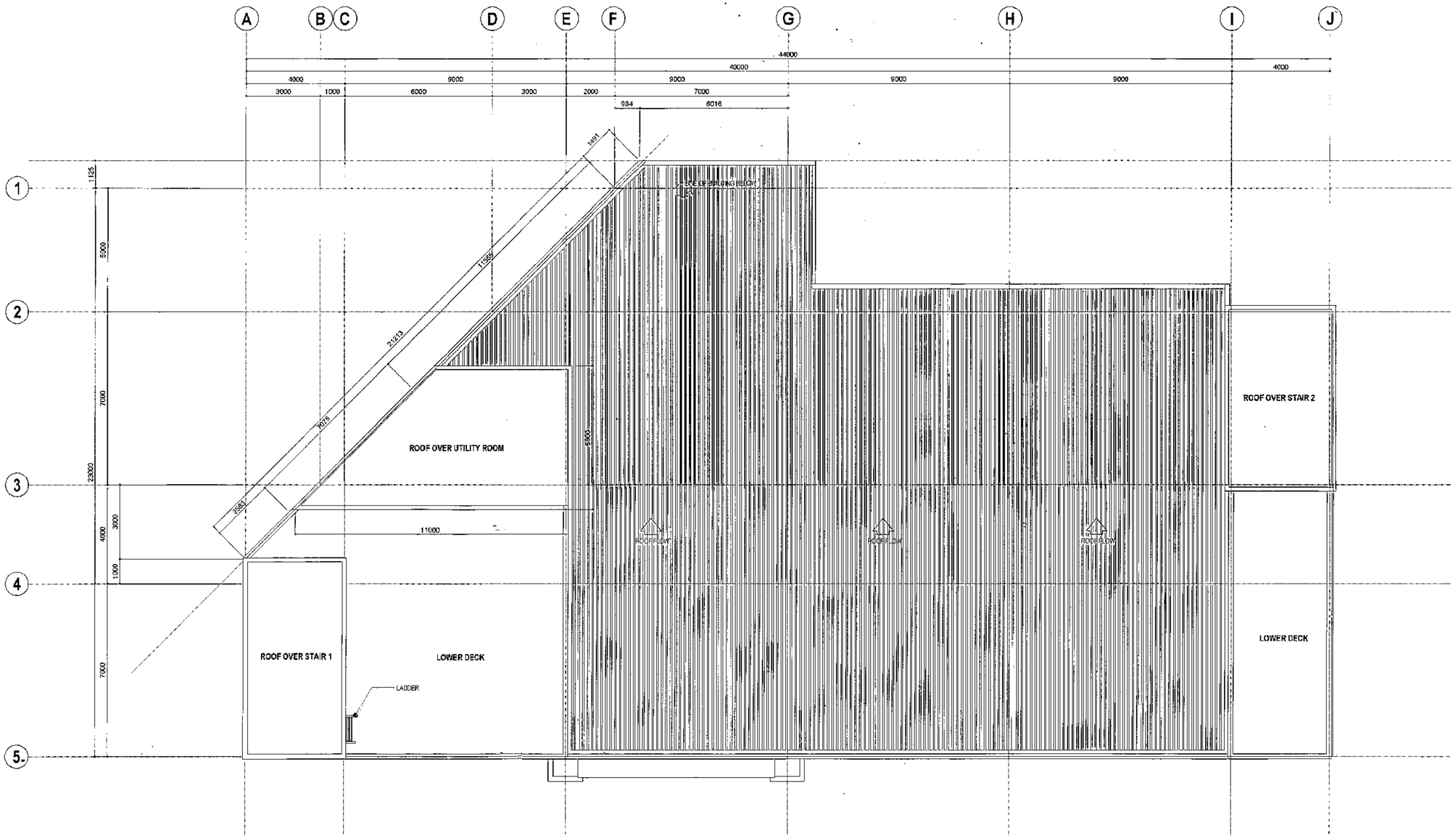
FP-09



1 ROOF FIRE PROTECTION LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

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MAYOR

PROJECT TITLE:
PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING @ QCU MAIN CAMPUS (PHASE 2)
LOCATION: BRGY. SAN BARTOLOME, QUEZON CITY

SHEET CONTENTS:
ROOF FIRE PROTECTION LAYOUT

PROJECT NO.:

DATE	November 2020
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CHECKED BY	Engr. E.R.Sibucao

SHEET NO.:
FP-10

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

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

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

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

Daywork Schedule

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

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

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

Provisional Sums

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

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

Signature Box

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

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

PROJECT TITLE: **PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING AT QCU MAIN CAMPUS (PHASE 2)**

LOCATION : BARANGAY SAN BARTOLOME, DISTRICT 5, QUEZON CITY

PROJECT NO. : 21 - 00047

DURATION : Four Hundred Twenty (420) Calendar Days

BREAKDOWN OF COST

ITEM NO.	Item of Work (Description)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I	GENERAL REQUIREMENTS				
II	SITE WORKS				
III	CIVIL / STRUCTURAL WORKS				
IV	ARCHITECTURAL WORKS				
V	SANITARY / PLUMBING WORKS				
VI	ELECTRICAL WORKS				
VII	AUXILIARY SYSTEM WORKS				
VIII	MECHANICAL WORKS				
IX	FIRE PROTECTION WORKS				
X	UTILITY AND ANCILLARY WORKS				

TOTAL COST ₱ _____

LUMP SUM BID IN WORDS : _____

_____

Contractor : _____

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : **PROPOSED CONSTRUCTION OF SEVEN (7) STOREY ACADEMIC BUILDING AT QCU MAIN CAMPUS (PHASE 2)**

LOCATION : **BARANGAY SAN BARTOLOME, DISTRICT 5, QUEZON CITY**

PROJECT NO. : **21 - 00047**

DURATION : **Four Hundred Twenty (420) Calendar Days**

SCOPE OF WORKS:

1. General Requirements include temporary facilities and utilities, billboard, scaffolding, construction safety and health, and clearing, hauling and disposal of construction materials and debris
2. Site Works include layout and staking, site clearing and preparation, removal of trees, and earthworks.
3. Civil and Structural Works include concrete works, masonry works, metal works, and roofing works. (foundation, beams and column are excluded)
4. Provision for thermal and moisture protection for the entire structure.
5. Architectural Works include floor finishes, wall finishes and partitions, ceiling works, and painting works.
6. Installation of gates, doors, door jambs and windows.
7. Installation of sanitary/plumbing roughing-Ins, equipment, fixtures and accessories.
8. Installation of electrial roughing-Ins, wirings, devices and fixtures.
9. Installation of panelboard and accessories.
10. Installation of fire protection roughing-Ins and accessories.
11. Installation of fire detection and alarm system (FDAS) including roughing-ins and accessories.
12. Installation of closed-circuit television (CCTV) system including roughing-ins and accessories.
13. Installation of telephone and data system including roughing-ins and accessories.
14. Installation of mechanical equipment including roughing-ins and accessories.
15. All necessary testing and commissioning shall be performed in accordance to standards.

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	**GENERAL REQUIREMENTS**				
	Billboard	1	pc	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	142	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	1,743	sq.m.		
	Temporary Electrical and Water Facilities	420	days		
	Temporary Enclosure Around the Construction Area (h= 2.4m)	132	l.m.		
				Direct Cost I	₱
II	**SITE WORKS**				
	Layout and Staking	792	sq.m.	₱	₱
	Site Clearing and Preparation	792	sq.m.		
	Excavation for Structures	122	cu.m.		
				Subtotal	₱
	Gravel Bedding	6	cu.m.	₱	₱
				Materials Cost	₱
				Labor Cost	

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Subtotal	₱
	Backfill and Compaction	2	cu.m.	₱	₱
				Subtotal	₱
				Material Cost II	₱
				Labor Cost II	
				Direct Cost II	₱

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
III	**CIVIL / STRUCTURAL WORKS**				
	Concrete Works				
	Ready Mix Concrete, 21MPa, 3/4" Gravel, 28 days				
	Column Footing (Service Entrance)	1	cu.m.	₱	₱
	Column (Service Entrance)	1	cu.m.		
	Slab on Fill (Concrete Pad)	5	cu.m.		
	Concrete Encasement for Electrical	39	cu.m.		
	Ready Mix Concrete, 28MPa, 3/4" Gravel, 28 days				
	Stiffener Beam and Column (Shear Wall)	17	cu.m.		
	Suspended Slab	671	cu.m.		
	Stairs	60	cu.m.		
	Shear Wall	93	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	10mm Ø Column (Service Entrance)	25	kg	₱	₱
	10mm Ø Stiffener Beam and Column	906	kg		
	10mm Ø Suspended Slab	42,179	kg		
	10mm Ø Slab on Fill (Concrete Pad)	149	kg		
	10mm Ø Stair	1,384	kg		
	10mm Ø Manhole for Electrical	91	kg		
	10mm Ø Concrete Encasement for Electrical	978	kg		
	12mm Ø Stair	1,213	kg		
	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire # 16				
	16mm Ø Column Footing (Service Entrance)	19	kg		
	16mm Ø Column (Service Entrance)	38	kg		
	16mm Ø Shear Wall	14,234	kg		
	16mm Ø Stiffener Beam and Column	10,501	kg		
	16mm Ø Concrete Encasement for Electrical	3,145	kg		
	Formworks				
	Column	8	sq.m.		
	Stiffener Beam and Column	331	sq.m.		
	Stairs	256	sq.m.		
	Shear Wall	451	sq.m.		
	Concrete Encasement for Electrical	243	sq.m.		
	Scaffolding and Shoring				
	Column	6	l.m.		
	Stiffener Beam and Column	276	l.m.		
	Stairs	256	sq.m.		
	Suspended Slab	5370	sq.m.		
	Shear Wall	451	sq.m.		
	Concrete Encasement for Electrical	243	sq.m.		
	Thermal and Moisture Protection				
	Waterproofing Works				
	Flexible Type	270	sq.m.		
	Capillary Type	436	sq.m.		
	Masonry Works				

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Floor Topping For Preparation of Tiles	5,118	sq.m.		
	Floor Topping and Finishing Preparation	4,038	sq.m.		
	100mm CHB Wall Laying, including Mortar, Reinforcing and Two-Face Plastering	3,119	sq.m.		
	150mm CHB Wall Laying, including Mortar, Reinforcing and Two-Face Plastering	3,752	sq.m.		
	Plastering of Door and Window Openings	1,852	sq.m.		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Metal Works				
	Steel Metal Deck, 0.80mm thk, 80,000psi	5,370	sqm		
	BI Pipe Stair Railings				
	Stair 1 Railings				
	50mm Sch.40 BI Pipe	1,501	kgs		
	38mm Sch.40 BI Pipe	751	kgs		
	12mm Ø Square Bar	485	kgs		
	Stair 2 Railings				
	50mm Sch.40 BI Pipe	1,501	kgs		
	38mm Sch.40 BI Pipe	751	kgs		
	12mm Ø Square Bar	485	kgs		
	Left-End Corridor Railings				
	50mm Sch.40 BI Pipe	867	kgs		
	16mm Ø Square Bar	392	kgs		
	Right-End Corridor Railings				
	50mm Sch.40 BI Pipe	600	kgs		
	16mm Ø Square Bar	275	kgs		
	Service Corridor Railings				
	50mm Sch.40 BI Pipe	212	kgs		
	16mm Ø Square Bar	126	kgs		
	Stainless Steel Railings				
	Main Entrance Ramp				
	50mm Stainless Steel Railings w/ Hairline Finish	41	l.m.		
	Main Entrance Railings				
	50mm Stainless Steel Railings w/ Hairline Finish	8	l.m.		
	Right Entrance Railings				
	50mm Stainless Steel Railings w/ Hairline Finish	8	l.m.		
	Coffee Shop				
	50mm x 50mm Stainless Tubular Bars w/ Hairline Finish	46	l.m.		
	13mm x 13mm Stainless Steel w/ Hairline Finish	64	l.m.		
	PWD Toilet 50mmØ Grab Bar	8	l.m.		
	Acetylene Tank (Refill)	11	tanks		
	Assorted Metal Drill Bit	16	pcs		
	Cut Off Blade	10	pcs		
	Grinding Disc for Metal	24	pcs		
	Oxygen Tank (Refill)	22	tanks		
	Welding Rod	9	boxes		
	Roofing Works				
	Pre-painted G.I. Rib Type Roofing	718	sq.m.	₱	₱
	Pre-painted G.I. End Flashing	32	sq.m.		
	12mm x 300mm Fiber Cement Fascia Board	32	l.m.		
	6mm Thk Thermal Insulation with One-sided Aluminum Foil	718	l.m.		
	Tekscrew	5,960	l.m.		
	Blind Rivets	7,180	sq.m.		
	All Purpose Sealant	8	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Material Cost III	**₱**
				Labor Cost III	
	.			**Direct Cost III**	**₱**
IV	**ARCHITECTURAL WORKS**				
	Floor Finishes				
	600mm x 600mm Non-Skid Ceramic Floor Tiles	1,164	sq.m.	₱	₱
	13mm x 6mm Stair Step Grooves	1,428	l.m.		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Wall Finishes				
	300mm x 600mm Ceramic Wall Tiles	37	sq.m.		
	Granite Slab Elevator Façade	78	sq.m.		
	Decorative Stone Finish	18	sq.m.		
	Plaster Guide / Groove	1,144	l.m.		
	6mm thk Fiber Cement Board with Complete Framing and	44	sq.m.		
	10mm Thk Phenolic Board incl. Supports				
	Toilet Partition	231	sq.m.		
	Urinal Partition	18	sq.m.		
	Ceiling Finishes				
	Rubbed Concrete (Slab Soffit)	3,315	sq.m.		
	600mm x 600mm Acoustic Board incl T-Runners	1,090	sq.m.		
	12mm Thk Moisture Resistant Gypsum Board with Complete Framing and Accessories	1,404	sq.m.		
	12mm Thk Gypsum Board with Complete Framing and Accessories	62	sq.m.		
	6mm Thk Fiber Cement Board with Complete Framing and Accessories	76	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Installation of Doors and Windows				
	D1 - (1.20m x 2.10m) Wooden Panel Door with 6mm thk. Tempered Glass	2	sets	₱	₱
	D2 - (0.9m x 2.4m) 6mm thk. Tempered Glass Door on Powder Coated Aluminum Frames	4	sets		
	D3 - (0.9m x 2.10m) Wood Panel Door with 6mm thk. Louv	11	sets		
	D4 - (0.9m x 2.1m) Flush Door with Louver	1	set		
	D4 - (0.9m x 2.1m) Flush Door with Louver	15	sets		
	D5 - (0.9m x 2.1m) Metal Door with Louver	13	sets		
	D6 - (0.80m x 2.15m) Metal Door with Louver	2	sets		
	D7 - (1.0m x 2.1m) Metal Door with Panic Hardware	2	sets		
	D8 - (1.6m x 2.15m) Metal Door with Louvers	14	sets		
	D9 - (0.8m x 2.1m) Metal Door with Louvers	7	sets		
	D10 - (0.9m x 2.1m) Metal Door with Kick Plate	7	sets		
	D11 - (0.8m x 2.1m) Metal Door with Louvers	3	sets		
	D12 - (0.7m x 2.1m) 19mm thk. FCHD Plywood, Painted Finish with Mosaic Glass and Louvers	3	sets		
	D13 - (0.55m x 1.257m) Metal Door with Louvers	2	sets		
	D14 -(1.7m x 2.5m) 6mm thk. Clear Tempered Glass Door w/ Glass Transom on Aluminum Frame	70	sets		
	D15 - (1.0m x 2.1m) Metal Door with Transom and Fixed Glass	70	sets		
	D16 - (2.0m x 2.15m) Metal Door with Louvers and Transom	1	set		
	D17 (3.4m x 3.0m) Metal Door with Louvers	1	set		
	RT1 - Varifold Retractable Wall	1	set		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Door Jambs				
	Wooden Jambs				
	D1 - (1.20m x 2.10m) Wooden Panel Door with 6mm thk.	2	sets		
	type Door Handle & Provide Automatic Door Closer with				
	D3 - (0.9m x 2.10m) Wood Panel Door with 6mm thk. Louver	11	sets		
	D4 - (0.9m x 2.1m) Flush Door with Louver	1	set		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	D12 - (0.7m x 2.1m) 19mm thk. FCHD Plywood, Painted Finish with Mosaic Glass and Louvers	3	sets		
	Glass, louvers and complete Lockset				
	Metal Jambs				
	D5 - (0.9m x 2.1m) Metal Door with Louver	13	sets		
	D6 - (0.80m x 2.15m) Metal Door with Louver	2	sets		
	D7 - (1.0m x 2.1m) Metal Door with Panic Hardware	2	sets		
	D8 - (1.6m x 2.15m) Metal Door with Louvers	14	sets		
	D9 - (0.8m x 2.1m) Metal Door with Louvers	7	sets		
	D10 - (0.9m x 2.1m) Metal Door with Kick Plate	7	sets		
	D11 - (0.8m x 2.1m) Metal Door with Louvers	3	sets		
	D13 - (0.55m x 1.257m) Metal Door with Louvers	2	sets		
	D15 - (1.0m x 2.1m) Metal Door with Transom and Fixed Glass	70	sets		
	D16 - (2.0m x 2.15m) Metal Door with Louvers and Transom	1	set		
	D17 (3.4m x 3.0m) Metal Door with Louvers	1	set		
	Door Knob	18	sets		
	Door Hinge (Ordinary)	57	sets		
	Door Hinge (Metal Doors)	450	sets		
	16mmØ Barrel Bolt	130	sets		
	16mmØ Foot Bolt	11	sets		
	Door Closer (Wood)	45	sets		
	Panic Hardware	2	sets		
	Kick Plate				
	Stainless Steel Screw Mounted Push Plate				
	D10 - Metal type Door with Kick Plate and complete Lockset, Painted Finish	1	set		
	Installation of Windows				
	W1 - Steel Casement Window with Transom and Security Grilles	60	sets		
	W2 - Steel Casement Window with Transom and Security Grilles	3	sets		
	W3 - Steel Casement Window with Transom and Security Grilles	1	set		
	W4 - Steel Casement Window with Security Grilles	7	sets		
	W5 - Awning Window on Steel frames and Security Grilles	32	sets		
	W6 - Awning Window on Powder Coated Aluminum Frame	14	sets		
	W7 - Awning Window on Steel Frames with Security Grilles	7	sets		
	W8 - Fixed Window on Powder Coated Aluminum Frame	3	sets		
	W9 - Fixed Window on Powder Coated aluminum Frame	1	set		
	W10 - Fixed Window on Powder Coated Aluminum Frame	1	set		
	W11 - Jalousie Window on Powder Coated Aluminum Frame	68	sets		
	W12 - Metal Louvered Window	6	sets		
	CW1 - Curtain Wall and Casement Window with Fixed Glass	6	sets		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Gate Including Accessories				
	GD1 - 5m x 3m Folding Steel Gate Including Accessories, Painted Finish	1	set		
	GD2 - 3.5m X 3m Folding Steel Gate Including Accessories, Painted Finish	1	set		
	GD3 - 3.5m X 3.1m Folding Steel Gate Including Accessories, Painted Finish	1	set		
	GD4 - 1.675m x 3.1m Folding Steel Gate Including Accessories, Painted Finish	1	set		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	G1 - 1.3 m x 2.954 m Leaf-Themed Flat Bar Design on 2" x 4" Tubular Steel Frame including accessories, Painted Finish	2	sets		
	G2 - 8.15 m x 2.8 m Fixed Grills	2	sets		
	G3 - 4.65 m x 2.8 m Fixed Grills	1	set		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Carpentry Works				
	Faculty Pantry Wall Hung Cabinet, including accessories, Painted Finish	1	set	₱	₱
	Faculty Pantry Undercounter Cabinet, including concreting, finishes and accessories	1	set		
	Black and White Board with Complete Framing and Accessories	33	sets		
	Painting Works				
	Epoxy Enamel Finish (Steel Surfaces)	243	sq.m.		
	Elastomeric Paint Finish (Exterior Walls)	3,028	sq.m.		
	Latex Paint Finish				
	Interior Walls	7,290	sq.m.		
	Ceiling	4,856	sq.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Logos and Letterings				
	QC Logo	1	set	₱	₱
	QCU Logo	1	set		
	Satinless Steel Signage with Neon Backlights				
	"ACADEMIC BUILDING" (500mm x 375mm)	20	pcs		
	"QUEZON CITY UNIVERSITY" (350mm x 260mm)	16	pcs		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Material Cost IV	₱
				Labor Cost IV	
				Direct Cost IV	₱
V	**SANITARY / PLUMBING WORKS**				
	Sewer Line System				
	50mmØ PVC Pipe with Hub	170	pcs	₱	₱
	75mmØ PVC Pipe with Hub	73	pcs		
	100mmØ PVC Pipe with Hub	125	pcs		
	150mmØ PVC Pipe with Hub	5	pcs		
	200mmØ PVC Pipe with Hub	8	pcs		
	250mmØ PVC Pipe with Hub	11	pcs		
	300mmØ PVC Pipe with Hub	17	pcs		
	50mmØ x 50mmØ Wye	23	pcs		
	75mmØ x 50mmØ Wye	28	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	75mmØ x 75mmØ Wye	11	pcs		
	100mmØ x 50mmØ Wye	223	pcs		
	100mmØ x 75mmØ Wye	73	pcs		
	100mmØ x 100mmØ Wye	47	pcs		
	150mmØ x 50mmØ Wye	12	pcs		
	150mmØ x 100mmØ Wye	12	pcs		
	250mmØ x 100mmØ Wye	8	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	300mmØ x 100mmØ Wye	3	pcs		
	300mmØ x 200mmØ Wye	6	pcs		
	300mmØ x 250mmØ Wye	2	pcs		
	300mmØ x 300mmØ Wye	2	pcs		
	50mmØ x 50mmØ Tee	402	pcs		
	75mmØ x 50mmØ Tee	21	pcs		
	100mmØ x 50mmØ Tee	55	pcs		
	250mmØ x 250mmØ Tee	4	pcs		
	50mmØ 1/4 Bend	199	pcs		
	75mmØ 1/4 Bend	78	pcs		
	150mmØ 1/4 Bend	15	pcs		
	300mmØ 1/4 Bend	6	pcs		
	50mmØ 1/8 Bend	785	pcs		
	75mmØ 1/8 Bend	395	pcs		
	100mmØ 1/8 Bend	216	pcs		
	150mmØ 1/8 Bend	19	pcs		
	250mmØ 1/8 Bend	8	pcs		
	300mmØ 1/8 Bend	3	pcs		
	100mmØ x 50Ø Reducer	7	pcs		
	150mmØ x 100 Ø Reducer	4	pcs		
	200mmØ x 150 Ø Reducer	5	pcs		
	250mmØ x 200 Ø Reducer	5	pcs		
	315mmØ x 250 Ø Reducer	5	pcs		
	75mmØ Cleanout	10	pcs		
	100mmØ Cleanout	45	pcs		
	200mmØ Cleanout	2	pcs		
	250mmØ Cleanout	1	pc		
	50mmØ P-Trap	217	pcs		
	Sump Pit Assembly				
	50mmØ B.I. Pipe	7	pcs		
	50mmØ 90° Elbow	6	pcs		
	50mmØ Union Patent	1	pc		
	Other Items				
	Lifting Cables (Stainless Steel Wire Rope - 4mm dia.)	1	roll		
	Water Level Indicator (4-20MA Level Sensor-Beam Digital Display)	1	pc		
	Guide Rails (SBR12-800mm with 2 pcs Block Bearing)	3	sets		
	Flow Switch (Automatic Pump Control)	1	pc		
	0.30m x 0.30m x 50mm thk. Base Plate	1	pc		
	19mm Anchor Bolt with Nut and Washer	4	pcs		
	Waterline System				
	20mmØ PPR Pipe	105	pcs		
	25mmØ PPR Pipe	42	pcs		
	32mmØ PPR Pipe	42	pcs		
	40mmØ PPR Pipe	14	pcs		
	50mmØ PPR Pipe	8	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	65mmØ PPR Pipe	6	pcs		
	75mmØ PPR Pipe	24	pcs		
	90mmØ PPR Pipe	22	pcs		
	100mmØ PPR Pipe	11	pcs		
	20mmØ x 20mmØ Tee Equal	45	pcs		
	25mmØ x 25mmØ Tee Equal	12	pcs		
	32mmØ x 32mmØ Tee Equal	5	pcs		
	40mmØ x 40mmØ Tee Equal	2	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	50mmØ x 50mmØ Tee Equal	4	pcs		
	75mmØ x 75mmØ Tee Equal	8	pcs		
	90mmØ x 90mmØ Tee Equal	4	pcs		
	100mmØ x 100mmØ Tee Equal	3	pcs		
	25mmØ x 20mmØ Unequal Tee	45	pcs		
	32mmØ x 20mmØ Unequal Tee	5	pcs		
	40mmØ x 20mmØ Unequal Tee	5	pcs		
	40mmØ x 25mmØ Unequal Tee	15	pcs		
	40mmØ x 32mmØ Unequal Tee	4	pcs		
	50mmØ x 32mmØ Unequal Tee	8	pcs		
	50mmØ x 25mmØ Unequal Tee	3	pcs		
	50mmØ x 40mmØ Unequal Tee	8	pcs		
	65mmØ x 40mmØ Unequal Tee	10	pcs		
	90mmØ x 75mmØ Unequal Tee	5	pcs		
	110mmØ x 90mmØ Unequal Tee	5	pcs		
	75mmØ x 50mmØ Unequal Tee	3	pcs		
	25mmØ x 20mmØ Reducer	27	pcs		
	32mmØ x 20mmØ Reducer	4	pcs		
	32mmØ x 25mmØ Reducer	19	pcs		
	40mmØ x 25mmØ Reducer	15	pcs		
	40mmØ x 32mmØ Reducer	12	pcs		
	50mmØ x 25mmØ Reducer	8	pcs		
	50mmØ x 32mmØ Reducer	5	pcs		
	50mmØ x 40mmØ Reducer	5	pcs		
	65mmØ x 40mmØ Reducer	6	pcs		
	65mmØ x 50mmØ Reducer	6	pcs		
	75mmØ x 65mmØ Reducer	9	pcs		
	90mmØ x 75mmØ Reducer	5	pcs		
	110mmØ x 90mmØ Reducer	3	pcs		
	20mmØ 90° Elbow	199	pcs		
	25mmØ 90° Elbow	123	pcs		
	32mmØ 90° Elbow	88	pcs		
	40mmØ 90° Elbow	60	pcs		
	50mmØ 90° Elbow	3	pcs		
	65mmØ 90° Elbow	75	pcs		
	75mmØ 90° Elbow	25	pcs		
	90mmØ 90° Elbow	25	pcs		
	110mmØ 90° Elbow	15	pcs		
	25mmØ x 18mm Ø Female Threaded Tee	134	pcs		
	20mmØ End Cap	134	pcs		
	20mmØ Union Patent	9	pcs		
	25mmØ Union Patent	10	pcs		
	32mmØ Union Patent	19	pcs		
	40mmØ Union Patent	8	pcs		
	50mmØ Union Patent	2	pcs		
	65mmØ Union Patent	12	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	75mmØ Union Patent	2	pcs		
	90mmØ Union Patent	2	pcs		
	20mmØ Coupling	97	pcs		
	25mmØ Coupling	54	pcs		
	32mmØ Coupling	53	pcs		
	40mmØ Coupling	17	pcs		
	50mmØ Coupling	10	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	65mmØ Coupling	7	pcs		
	75mmØ Coupling	31	pcs		
	90mmØ Coupling	28	pcs		
	110mmØ Coupling	13	pcs		
	20mmØ Male Adaptor	42	pcs		
	25mmØ Male Adaptor	40	pcs		
	32mmØ Male Adaptor	76	pcs		
	40mmØ Male Adaptor	32	pcs		
	50mmØ Male Adaptor	8	pcs		
	65mmØ Male Adaptor	56	pcs		
	75mmØ Male Adaptor	54	pcs		
	90mmØ Male Adaptor	15	pcs		
	100mmØ Male Adaptor	4	pcs		
	Valve and Appurtenances				
	20mmØ Gate Valve PPR	12	pcs		
	25mmØ Gate Valve PPR	10	pcs		
	32mmØ Gate Valve PPR	19	pcs		
	40mmØ Gate Valve PPR	8	pcs		
	50mmØ Gate Valve PPR	2	pcs		
	65mmØ Gate Valve PPR	12	pcs		
	75mmØ Gate Valve PPR	2	pcs		
	90mmØ Gate Valve PPR	2	pcs		
	100mmØ Gate Valve PPR	2	pcs		
	75mmØ Check Valve	2	pcs		
	90mmØ Check Valve	2	pcs		
	65mmØ Float Valve	8	pcs		
	75mmØ Float Valve	3	pcs		
	90mmØ Water Meter	1	pc		
	Fixtures (Water Efficient)				
	Water Closet, Tank Type	65	pcs		
	Urinal, Flush Valve	28	pcs		
	Lavatory, Wall Hung	55	pcs		
	Kitchen Sink, Single	5	pcs		
	Lavatory Faucet	55	pcs		
	Hose Bibb, Heavy Duty	1	pcs		
	Slop Sink	7	pcs		
	Slop Sink Faucet	7	pcs		
	Kitchen Sink Faucet	5	pcs		
	Accessories				
	6mm thk Facial Mirror on 6mm thk Plywood Backing	58	sq.m		
	Bathroom Accessories including Bidet, Tissue Holder, Soap Holder and Towel Hook	65	pcs		
	Metal Door Hook	65	pcs		
	Flexible Hose	153	pcs		
	Single-Way Angle Valve	65	pcs		
	Two-Way Angle Valve	88	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Hardwares and Accessories				
	100mm x 100mm Floor Drain	122	pcs		
	50mmØ Deck Drain	21	pcs		
	75mmØ Deck Drain	18	pcs		
	100mmØ Roof Drain	7	pcs		
	150mmØ Roof Drain	6	pcs		
	100mmØ Roof Drain	7	pcs		
	150mmØ Roof Drain	6	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	No-Hub Coupling	10	pcs		
	5GPM Heavy Duty Grease Trap with Accessories	5	sets		
	Equipment				
	Transfer Pumps Centrifugal end-suction, cast-iron casing, hard plastic impeller stainless steel shaft, mechanical seal, hard plastic impeller, with a capacity of 170 GPM against 150 FT. TDH, close coupled to a 10 HP, 220V, 3Ø, 60Hz high efficient motor complete with electrodes for cistern and overhead tank, alternator and other accessories needed for automatic operation	2	sets		
	Sump Pumps Submersible type, cast iron casing, stainless steel shaft, hard plastic impeller, double mechanical seal w/ a capacity of 20GPM against 40 ft to dynamic head, close- coupled to a 0.5 HP, 220V, 1ø, 60Hz submersible motor. Complete w/ float switch for automatic operation	1	sets		
	Overhead Tank Stainless steel construction,CA #11, 6.35mm thk with a capacity of 7.75 m^3, complete with manhole ladder rung, saddle strap, inlet port, outlet port, vent, drain port and Ladder Rung Physical Dimension shall be 1.75mmØ and 35 Length Vertically installed.	2	sets		
	Rainwater Tanks Polyethylene Construction, capacity of 2 m^3, 1250mm Max, Diameter, 260mm Complete w/ Inlet & Outlet Ports Drain Port, Manhole, Ladder, and Level Indications	8	sets		
	Pipe Hangers and Supports				
	For horizontal pipes less than 50mmØ (2m interval)	102	l.m.		
	For horizontal pipes greater than 50mmØ (1m interval)	1,034	l.m.		
	Downspout Brackets	207	l.m.		
	Miscellaneous				
	All Around Sealant	10	cans		
	15mmØ Concrete Drill Bit	10	pcs		
	15mmØ Metal Drill Bit	10	pcs		
	400cc Solvent Cement	30	cans		
	Hacksaw Blade	20	pcs		
	Teflon Tape	350	rolls		
	Waste Cloth	5	kg		
				Material Cost V	**₱**
				Labor Cost V	
				Direct Cost V	**₱**
VI	**ELECTRICAL WORKS**				
A	Lighting and Power System				

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Roughing-ins				
	20mmØ PVC Pipe	3,757	pcs	₱	₱
	25mmØ PVC Pipe	965	pcs		
	25mmØ IMC Pipe	32	pcs		
	32mmØ IMC Pipe	87	pcs		
	50mmØ IMC Pipe	50	pcs		
	65mmØ IMC Pipe	38	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	80mmØ IMC Pipe	71	pcs		
	100mmØ IMC Pipe	18	pcs		
	110mmØ PVC Pipe	262	pcs		
	20mmØ Flex Metal Conduit	1,100	lm		
	Fittings & Accessories				
	20mmØ PVC Adaptor	3,022	pcs		
	20mmØ PVC Elbow	1,010	pcs		
	20mmØ PVC Locknut & Bushing	3,022	pairs		
	25mmØ PVC Adaptor	241	pcs		
	25mmØ PVC Elbow	160	pcs		
	25mmØ PVC Locknut & Bushing	241	pairs		
	25mmØ IMC Coupling	18	pcs		
	25mmØ IMC Elbow	14	pcs		
	25mmØ IMC Locknut & Bushing	134	pcs		
	32mmØ IMC Coupling	31	pcs		
	32mmØ IMC Elbow	20	pcs		
	32mmØ IMC Locknut & Bushing	32	pcs		
	50mmØ IMC Coupling	34	pcs		
	50mmØ IMC Elbow	10	pcs		
	50mmØ IMC Locknut & Bushing	8	pcs		
	65mmØ IMC Coupling	42	pcs		
	65mmØ IMC Elbow	8	pcs		
	65mmØ IMC Locknut & Bushing	6	pcs		
	80mmØ IMC Coupling	62	pcs		
	80mmØ IMC Elbow	6	pcs		
	80mmØ IMC Locknut & Bushing	12	pcs		
	100mmØ IMC Coupling	40	pcs		
	100mmØ IMC Elbow	8	pcs		
	100mmØ IMC Locknut & Bushing	56	pcs		
	100mmØ Weatherproof Entrance Cap, Diecast type	7	pcs		
	110mmØ PVC Adaptor	6	pcs		
	110mmØ PVC Elbow, 90° R	2	pcs		
	110mmØ PVC Elbow, 110° R	2	pcs		
	110mmØ PVC Locknut & Bushing	8	pairs		
	20mmØ Straight Connector with Locknut	1,608	pcs		
	50mm x 100mm Metal Utility Box	707	pcs		
	100mm x 100mm Metal Junction Box with cover	804	pcs		
	120mm Square Box with cover	60	box		
B	Wires and Cables				
	3.5mm² THHN Wire	151	rolls		
	5.5mm² THHN Wire	7	rolls		
	8.0mm² THHN Wire	34	rolls		
	14mm² THHN Wire	38	lm		
	30mm² THHN Wire	139	lm		
	38mm² THHN Wire	655	lm		
	80mm² THHN Wire	596	lm		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	125mm² THHN Wire	312	lm		
	150mm² THHN Wire	583	lm		
	250mm² THHN Wire	2,691	lm		
	2.0mm² TW Wire	76	rolls		
	3.5mm² TW Wire	4	rolls		
	5.5mm² TW Wire	17	rolls		
	8.0mm² TW Wire	1	roll		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	22mm² TW Wire	199	lm		
	30mm² TW Wire	105	lm		
	38mm² TW Wire	195	lm		
	60mm² TW Wire	897	lm		
C	Lighting fixtures (Energy Efficient)				
	1 x 20W LED, Flourescent Light, Box Type	118	pcs		
	1 x 20W LED, Flourescent Light, Troffer Type	352	pcs		
	2 x 20W LED, Flourescent Light, Troffer Type	184	pcs		
	150mmØ Pinlight LED	27	pcs		
	Triangular Façade Lighting (Big)	2	pcs		
	Emergency Light	56	pcs		
	Exit Light	63	pcs		
D	Wiring Devices				
	Outlet with Gounding , One-gang	56	pcs		
	Outlet with Gounding , Two-gang	362	pcs		
	Outlet with Gounding , One-gang for ACU	60	pcs		
	Switch w/ plate & cover, One pole	59	pcs		
	Switch w/ plate & cover, Two pole	85	pcs		
	Switch w/ plate & cover, Three pole	18	pcs		
	Switch w/ plate & cover, Three way, One-gang	50	pcs		
E	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	188	lm		
	Vertical Layout of Pipe	30	lm		
F	Miscellaneous & Consumables				
	All around Sealant	50	qrt		
	400cc PVC Solvent Cement	100	cans		
	Electrical Tape	300	rolls		
	Epoxy Primer	1	lit		
	Eyebolt	1	pc.		
	GI Tie Wire, Ga. 16 (for wire/cable pulling)	60	kgs		
	Hacksaw Blade	100	pcs		
	Masking Tape	50	pcs		
	Paint Thinner	1	lit		
	Pulling Lubricant	10	can		
	Quick Dry Enamel Silver	2	sqm		
	Rubber Tape	200	rolls		
				Material Cost	₱
				Labor Cost	
				Direct Cost	₱
G	Panelboard				
1	MCB Main: 2500 AT 3P 100 KAIC @ 600V w/ Ground Terminal Enclosure: NEMA 4X Floor Mounted	1	Assy	₱	₱
2	Low Voltage Switch Gear (LVSG, Unitized Panel) Main: 2500 AT 3P 100 KAIC @ 600V Branches:	1	Assy		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	1 - 1600 AT 3P MCCB 1 - 500 AT 3P MCCB 1 - 125 AT 3P MCCB 1 - Space Busbar Terminal w/ Ground Terminal Enclosure: NEMA 1				
3	MDP Main: 1600 AT 3P 100 KAIC @ 600V Branches: 1 - 400AT 3P MCCB	1	Assy		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	6 - 300AT 3P MCCB 1 - Space Busbar Terminal w/ Ground Terminal Enclosure: NEMA 3R				
4	DPA Main: 200 AT 3P 35 KAIC @ 240V Branches: 1 - 100 AT 3P MCCB 1 -70 AT 3P BOLT ON 1 - 50 AT 3P BOLT ON 1 - Space Busbar Terminal w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
5	DPB Main: 200 AT 3P 35 KAIC @ 240V Branches: 1 - 100 AT 3P MCCB 1 -70 AT 3P BOLT ON 1 - 50 AT 3P BOLT ON 1 - Space Busbar Terminal w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
6	DPC Main: 300 AT 3P 45 KAIC @ 240V Branches: 1 - 200 AT 3P MCCB 1 - 100 AT 3P MCCB 1 - 30 AT 3P BOLT ON 1 - Space Busbar Terminal w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
7	DPD TYPICAL TO DPE, DPF, & DPG Main: 300 AT 3P 45 KAIC @ 240V Branches: 1 - 250 AT 3P MCCB 1 - 100 AT 3P MCCB 2 - Space Busbar Terminal w/ Ground Terminal Enclosure: NEMA 1	4	Assy		
8	MPP Main: 500 AT 3P 65 KAIC @ 240V Branches: 1 - 300 AT 3P MCCB 2 - 200 AT 3P MCCB 2 - 125 AT 3P MCCB 1 - 50 AT 3P BOLT ON 1 - Space Busbar Terminal w/ Ground Terminal Enclosure: NEMA 3R	1	Assy		
9	Elevator Power Panel Main: 125 AT 3P MCCB	2	Assy		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Branches: 1 - 70 AT 3P MCCB 2 - 20 AT 2P BOLT ON Enclosure: NEMA 1				
10	LPA Main: 70 AT 3P 18 KAIC @ 240V Branches: 1 - 30 AT 2P BOLT ON 12 - 20 AT 2P BOLT ON w/ Ground Terminal	1	Assy		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Enclosure: NEMA 1				
11	PPA Main: 100 AT 3P 25 KAIC @ 240V Branches: 8 - 30 AT 2P BOLT ON 6 - 20 AT 2P BOLT ON 2 - Space Busbar Terminal w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
12	LPB Main: 70 AT 3P 18 KAIC @ 240V Branches: 3 - 30 AT 2P BOLT ON 7 - 20 AT 2P BOLT ON w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
13	PPB Main: 100 AT 3P 25 KAIC @ 240V Branches: 5 - 30 AT 2P BOLT ON 9 - 20 AT 2P BOLT ON w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
14	LPC Main: 100 AT 3P 25 KAIC @ 240V Branches: 2 - 30 AT 2P BOLT ON 18 - 20 AT 2P BOLT ON w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
15	PPC Main: 200 AT 3P 35 KAIC @ 240V Branches: 12 - 40 AT 2P BOLT ON 2 - Space w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
16	LPPD TYPICAL TO LPPE, & LPPF Main: 100 AT 3P 25 KAIC MCCB @ 240V Branches: 1 - 30 AT 3P MCCB 17 - 20 AT 2P BOLT ON w/ Ground Terminal Enclosure: NEMA 1	3	Assy		
17	PPD TYPICAL TO PPE & PPF Main: 250 AT 3P 35 KAIC @ 240V Branches: 14 - 40 AT 2P BOLT ON 2 - Space w/ Ground Terminal Enclosure: NEMA 1	3	Assy		
18	LPPG	1	Assy		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Main: 100 AT 3P 25 KAIC @ 240V Branches: 2 - 30 AT 2P BOLT ON 18 - 20 AT 2P BOLT ON w/ Ground Terminal Enclosure: NEMA 1				
19	PPG Main: 250 AT 3P 35 KAIC @ 240V Branches: 14 - 40 AT 2P BOLT ON 2 - Space w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
20	LPPACA Main: 50 AT 3P 18 KAIC @ 240V Branches: 12 - 20 AT 2P BOLT ON w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
21	LPPACB Main: 50 AT 3P 18 KAIC @ 240V Branches: 16 - 20 AT 2P BOLT ON w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
22	LPPACC Main: 30 AT 3P 18 KAIC @ 240V Branches: 6 - 20 AT 2P BOLT ON w/ Ground Terminal Enclosure: NEMA 1	1	Assy		
16	Enclosed Circuit Breaker				
	400 AT, 3P, NEMA 3R	1	Assy		
	300 AT, 3P, NEMA 3R	1	Assy		
	200 AT, 3P, NEMA 3R	2	Assy		
	125 AT, 3P, NEMA 3R	1	Assy		
	50 AT, 2P, NEMA 3R	1	Assy		
	30 AT, 2P, NEMA 3R	26	Assy		
	20 AT, 2P, NEMA 3R	20	Assy		
				Material Cost	₱
				Labor Cost	
				Direct Cost	₱
F	Grounding and Lighting Protection System				
	Lighting Arrester Dynasphere	1	pc		
	Terminal Lug Coupling Connector	2	pcs		
	100 mm² Terminal Lug One Hole Long Barrel	1	pc		
	Lightning Event Counter	1	pc		
	Event Counter Enclosure	1	pc		
	50mmØ x 6m, Steel Mast	1	pc		
	Base Plate for Steel Mast	1	pc		
	Inline Coupling	1	pc		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Fiberglass Mast 3m	1	pc		
	Lower Termination Kit	1	pc		
	Ground Well/Pit 200mm Depth with S/S Cover	2	pcs		
	20mmØ x 3m, Copper Bonded Ground Rod	23	pcs		
	100 mm² Cable to 20mm Rod, Cadweld Mold for GT Connection	23	pcs		
	Powder for GT Connection	23	tubes		
	Handle Clamp Mold	2	pcs		
	Flint Igniter	2	pcs		
	100mm² Bare Copper Wire (uncut)	181	lm		
				Material Cost	₱
				Labor Cost	
				Direct Cost	₱
G	Stand By Generator Set				
	750 KVA Three Phase 230 / 220V 60Hz Electronic Governor-Diesel Engine Driven Silent Type (5650mm x 2020mm x 2550mm)	1	Assy	₱	₱
				Direct Cost	₱
				Material Cost VI	₱
				Labor Cost VI	
				Direct Cost VI	₱
VII	**AUXILIARY SYSTEM WORKS**				
A	Fire Detection and Alarm System (FDAS)				
1	Roughing-ins				
	20mmØ PVC Pipe	6	pcs	₱	₱
	20mmØ EMT Pipe	618	pcs		
	25mmØ EMT Pipe	43	pcs		
	20mmØ Flexible Metallic Tube	125	lm		
	Fittings and Accessories				
	20mmØ PVC Adaptor	4	pcs		
	20mmØ PVC Elbow	2	pcs		
	20mmØ PVC Locknut & Bushing	4	pairs		
	20mmØ EMT Connector, Set screw type	502	pcs		
	20mmØ EMT Coupling, Set screw type	492	pcs		
	20mmØ EMT Elbow	350	pcs		
	25mmØ EMT Connector, Set screw type	40	pcs		
	25mmØ EMT Coupling, Set screw type	30	pcs		
	25mmØ EMT Elbow	20	pcs		
	20mmØ Straight Connector with locknut	246	pair		
	Pullbox, 200mm x 200mm x 150mm	7	assy		
	50mm x 100mm Metallic Utility Box	60	pc		
	100mm x 100mm Metallic Junction Box with cover	186	pcs		
	120mm Square Box with cover	30	pc		
2	Wires and Cables				
	1.25mm² TF Wire	114	rolls		
	UTP Cable Cat 6, 4-pairs	36	lm		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
3	Fixtures, Devices & Equipment				
	Anunciator	16	pcs		
	Bell 6"Ø / Horn with Strobe Light	30	sets		
	Combination Smoke & Carbon Monoxide Detector	194	pcs		
	Fire Alarm Manual Pull Station	30	pcs		
	Fire Alarm Control (and Ventillation) Panel (FACP), 16-Zones Addressable	1	unit		
	Heat Detector	5	pc		
	Power Supply and Back-up Battery Pack w/ Charger & Inc	1	set		
4	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	412	lm		
	Vertical Layout of Pipe	40	lm		
5	Miscellaneous & Consumables				
	All around Sealant	1	qrt		
	Electrical Tape	35	rolls		
	GI Tie Wire, Ga. 16 (for wire/cable pulling)	6	kgs		
	Hacksaw Blade	15	pc		
	Masking Tape	20	pc		
	Pulling Lubricant	4	can		
	Rugs	15	pcs		
B	Telephone (Voice) System				
1	Roughing-ins				
	25mmØ PVC Pipe	400	pcs		
	50mmØ PVC Pipe	70	pcs		
	40mmØ IMC Pipe	18	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Fittings and Accessories				
	25mmØ PVC Adaptor	287	pcs		
	25mmØ PVC Locknut & bushing	287	pairs		
	50mmØ PVC Adaptor	4	pcs		
	50mmØ PVC Elbow	6	pcs		
	50mmØ PVC Locknut & bushing	4	pairs		
	50mmØ Weatherproof Cap, Diecast	2	pcs		
	40mmØ IMC Coupling	14	pcs		
	40mmØ IMC Elbow	8	pcs		
	40mmØ IMC Locknut & Bushing	8	pcs		
	50mm x 100mm Metal Utility Box	75	pcs		
	25mmØ Mica Tube	30	lm		
	120mm Square Box with cover	6	pcs		
	50mm x 100mm x 2400mm Wireway with cover, powder-coated	12	pcs		
	200mm x 200mm x150mm, Pullbox	7	assy		
	20mm Ø x 3000mm Grounding Rod (Copper Clad) with Ground Clamp	1	pc		
	RJ 45 Connector, 8-pins	226	pcs		
	SC, ST, LC Fiber Optic Connectors	2	box		
	Fiber Adapter Cable Kits	1	sets		
	Cable Trays and Terminal Cabinets Grouns Strap, 3m	6	pcs		
	Telecom Backboard, Flame retardant	3	pcs		
2	Wires and Cables				
	8.0mm² THW Wire	15	lm		
	UTP Cable Cat 6, 4-pairs	28	rolls		
	UTP Patch Cord,Cat 6, 550MHz, 3 ft.	113	pcs		
	Fiber Optic (2-Core) Riser Cable	12	lm		
	Fiber Optic (2-Core) Plenum Cable	46	lm		
	Fiber Optic Patch Cord, 3 ft.	212	lm		
3	Fixtures, Devices & Equipment				
	Universal LAN Outlet, Simplex (1-Device)	36	pcs		
	Universal LAN Outlet, Duplex (2-Device)	39	pcs		
	IP PBX with 20-line and 120 IP-extensions	1	unit		
	Server Equipment with UPS	1	set		
	Main Distribution Frame (MDF) 48U Data Rack (19") with Standard Framing & Panelling and Vent Fans 1 - Router, 8-port Rackmounted (1U) 1 - Fiber Patch Panel, Rackmount Preloaded, 12-port (2U) 1 - Managed Fast Fiber Switch, 12-port (2U) 1 - CAT6 Standard Density Feed-Thru Patch Panel, 24-port (3U) 1 - 20-port UTP + 4-port FTP Network Switch (2U) 1 - CAT6 Standard Density Feed-Thru Patch Panel, 48-port (3U) 1 - 48-port UTP Network Switch (3U) 1 - Rackmounted UPS, 1000VA ≥ 5 mins "on-line"	1	assy		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	1 - Rackmounted Surge Suppressor 2 - Small Form-Factor Pluggable (SFP) Optical Tranceiver * with Cable managers and UTP/FTP Converter * UTP Cross-Connect Cables * FTP Cross-Connect Cables				

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Immediate Distribution Frame (IDF1) 20U Data Rack(19") with Standard Framing & Panelling and Vent Fans 1 - CAT6 Standard Density Feed-Thru Patch Panel, 48-port (3U) 1 - 44-port UTP + 4-port FTP Network Switch (3U) 1 - Rackmounted UPS, 650VA ≥ 5 mins "on-line" 2 - Small Form-Factor Pluggable (SFP) Optical Tranceiver * with Cable managers and UTP/FTP Converter * UTP Cross-Connect Cables	1	assy		
	Immediate Distribution Frame (IDF2) 28U Data Rack(19") with Standard Framing & Panelling and Vent Fans 1 - CAT6 Standard Density Feed-Thru Patch Panel, 48-port (3U) 1 - 12-port UTP Network Switch (1U) 1 - CAT6 Standard Density Feed-Thru Patch Panel, 24-port (2U) 1 - Rackmounted UPS, 650VA ≥ 5 mins "on-line" 2 - Small Form-Factor Pluggable (SFP) Optical Tranceiver * with Cable managers and UTP/FTP Converter * UTP Cross-Connect Cables	1	assy		
4	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	50	lm		
	Vertical Layout of Pipe	35	lm		
5	Miscellaneous & Consumables				
	400cc PVC Solvent Cement	7	can		
	Electrical Tape	10	roll		
	GI Tie Wire, Ga. 16 (for wire/cable pulling)	4	kgs		
	Hacksaw Blade	5	pc		
	Masking Tape	7	roll		
	Pulling Lubricant	4	can		
	Rubber Tape	4	roll		
	Rugs	6	pc		
C	Closed Circuit Television (CCTV) and Security System				
1	Roughing-ins				
	20mmØ PVC Pipe	81	pcs		
	25mmØ PVC Pipe	229	pcs		
	25mmØ Flex Metal Conduit	40	lm		
	Fittings & Accessories				
	20mmØ PVC Adaptor	22	pcs		
	20mmØ PVC Elbow	10	pcs		
	20mmØ PVC Locknut & Bushing	22	pairs		
	25mmØ PVC Adaptor	66	pcs		
	25mmØ PVC Elbow	55	pcs		
	25mmØ PVC Locknut & Bushing	66	pairs		
	25mmØ Straight Connector with Locknut	72	pcs		
	100mm x 100mm Metal Junction Box with cover	22	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	120mm Square Box with cover	3	pcs		
	Pullbox, 325mm x 275mm x 275mm	9	assy		
	RJ 45 Connector, 8-pins	72	pcs		
2	Wires and Cables				
	8.0mm² THW Wire	15	lm		
	A/V (VGA and HDMI) Cable	40	lm		
	UTP Cable Cat 6, 4-pairs	12	rolls		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
3	Fixtures, Devices & Equipment				
	IP Bullet Camera (Vandal resistant), Outdoor Type	5	pcs		
	IP Dome Camera (Day/nightt), Indoor Type	29	pcs		
	26-port Utp Managed PoE Switch (2U)	2	units		
	Network Video Recorder (NVR), 1-Channel with 2 SATA	3	units		
	Multi-Function Keyboard Controller	1	unit		
	32" LED Display Monitor	3	units		
	UPS, 650VA ≥ 5 mins "on-line"	1	unit		
	UPS, 1000VA ≥ 5 mins "on-line"	1	unit		
4	Pipe Hangers & Supports				
	Horizontal Layout of Pipe	451	lm		
	Vertical Layout of Pipe	34	lm		
5	Miscellaneous & Consumables				
	Electrical Tape	10	rolls		
	GI Tie Wire, Ga. 16 (for wire/cable pulling)	3	kgs		
	Hacksaw Blade	7	pcs		
	Masking Tape	5	rolls		
	Pulling Lubricant	2	cans		
	Rubber Tape	4	roll		
	Rugs	7	pc		
				Material Cost VII	₱
				Labor Cost VII	
				Direct Cost VII	₱
VIII	**MECHANICAL WORKS**				
A	Refrigerant Pipe System				
	6mm Ø Copper Coil Tubing	108	lm	₱	₱
	10mm Ø Copper Coil Tubing	300	lm		
	12mm Ø Copper Coil Tubing	108	lm		
	16mm Ø Copper Coil Tubing	287	lm		
	20mm Ø Copper Coil Tubing	176	lm		
	29mm Ø Copper Coil Tubing	59	lm		
	35mm Ø Copper Coil Tubing	104	lm		
	6mm Ø x 20mm thick Rubber Foam Insulation	108	lm		
	10mm Ø x 20mm thick Rubber Foam Insulation	300	lm		
	12mm Ø x 20mm thick Rubber Foam Insulation	108	lm		
	16mm Ø x 20mm thick Rubber Foam Insulation	287	lm		
	20mm Ø x 20mm thick Rubber Foam Insulation	176	lm		
	29mm Ø x 20mm thick Rubber Foam Insulation	59	lm		
	35mm Ø x 20mm thick Rubber Foam Insulation	104	lm		
	Indoor Y Branch	25	pc		
	Outdoor Y Branch	6	pc		
	Wireless Remote	27	pc		
B	Condensate Water Drainage System				
	25mm Ø x 3m uPVC Pipe	4	pc		
	32mm Ø x 3m uPVC Pipe	36	pc		
	40mm Ø x 3m uPVC Pipe	10	pc		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	50mm Ø x 3m uPVC Pipe	24	pc		
	65mm Ø x 3m uPVC Pipe	4	pc		
	25mm Ø x 12mm thick Rubber Foam Insulation	12	lm		
	32mm Ø x 12mm thick Rubber Foam Insulation	108	lm		
	40mm Ø x 12mm thick Rubber Foam Insulation	30	lm		
	50mm Ø x 12mm thick Rubber Foam Insulation	72	lm		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	65mm Ø x 12mm thick Rubber Foam Insulation	12	lm		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
C	Equipment and Accessories				
	EF 1 - Ceiling Mounted Ductless Exhaust Fan, 180cmh, 22W, 230V / 1ϕ / 60Hz	66	unit	₱	₱
	EF 2 - Wall Mounted Axial Exhaust Fan, 1260cmh, 52W, 230V / 1ϕ / 60Hz	2	unit		
	CF 1 - Ceiling Fan, 0.50cms, 100W, 230V / 1ϕ / 60Hz	14	unit		
	WAC 1 - 2.5hp, 550cmm, 2.61kW, 230V / 1ϕ / 60Hz	66	unit		
	WAC 2 - 0.75hp, 466cmm, 1.89kW, 230V / 1ϕ / 60Hz	1	unit		
				Equipment Cost	₱
				Labor Cost	
				Subtotal	₱
	ACCU 1 - Air-Cooled Condensing Unit, 23.2TR (278,100BT 19.05mm Ø Liquid & 34.93mm Ø Gas Pipes 6960cfm, 24.47kW, 230V / 3ϕ / 60Hz	1	unit	₱	₱
	ACCU 2 - Air-Cooled Condensing Unit, 21.6TR (259,300BT 19.05mm Ø Liquid & 34.93mm Ø Gas Pipes 6480cfm, 24.47kW, 230V / 3ϕ / 60Hz	1	unit		
	ACCU 3 - Air-Cooled Condensing Unit, 17.75TR (212,900B 15.88mm Ø Liquid & 28.58mm Ø Gas Pipes 5325cfm, 24.47kW, 230V / 3ϕ / 60Hz	1	unit		
	MSFCU 1 - Ceiling Cassette Fan Coil Unit, 3.0TR 9.52mm Ø Liquid, 19.05mm Ø Gas & 32mm Ø Drain Pipes 900cfm, 150W, 230V / 1ϕ / 60Hz	15	unit		
	MSFCU 2 - Ceiling Cassette Fan Coil Unit, 2.0TR 6.35mm Ø Liquid, 12.7mm Ø Gas & 32mm Ø Drain Pipes 600cfm, 50W, 230V / 1ϕ / 60Hz	4	unit		
	MSFCU 3 - Ceiling Cassette Fan Coil Unit, 1.5TR 6.35mm Ø Liquid, 12.7mm Ø Gas & 32mm Ø Drain Pipes 600cfm, 50W, 230V / 1ϕ / 60Hz	2	unit		
	MSFCU 4 - Wall-Mounted Fan Coil Unit, 0.8TR 6.35mm Ø Liquid, 12.7mm Ø Gas & 32mm Ø Drain Pipes 600cfm, 50W, 230V / 1ϕ / 60Hz	2	unit		
	MSFCU 5 - Wall-Mounted Fan Coil Unit, 0.6TR 6.35mm Ø Liquid, 12.7mm Ø Gas & 32mm Ø Drain Pipes 600cfm, 50W, 230V / 1ϕ / 60Hz	3	unit		
	MSFCU 6 - Wall-Mounted Fan Coil Unit, 0.5TR 6.35mm Ø Liquid, 12.7mm Ø Gas & 32mm Ø Drain Pipes 600cfm, 50W, 230V / 1ϕ / 60Hz	2	unit		
	SAC 1 - Wall Mounted Split-type Air Conditioning Unit, 2.0TR 6.35mm Ø Liquid, 15.88mm Ø Gas & 32mm Ø Drain Pipes 600cfm, 2200W, 230V / 1ϕ / 60Hz	6	unit		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
				Equipment Cost	₱
	Labor Cost with Technical Supervision				
				Subtotal	₱
	Supply and Installation of Passenger and Freight Elevator	2	unit	P	₱
	800kgs, 7 Stops, 7 Openings				
				Equipment Cost	₱

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
D	Pipe Hangers and Supports				
	Condensate Water Drainage System Support for 40mm Ø Pipe and below	150	lm	₱	₱
	Condensate Water Drainage System Support for 50mm Ø and 65mm Pipe	84	lm		
	Refrigerant Pipe System Support (150mm Ø Clevis Hanger)	487	lm		
	Refrigerant Pipe System Support (150mm Ø U-Bolt)	84	lm		
	Window Type Aircon Wall Mounted Support	67	unit		
	ACCU Support	9	unit		
	Vibration Isolator	36	pc		
E	Miscellaneous & Consumables				
	400cc Pipe Solvent Cement	5	can		
	25mm wide x 50m long Polyethylene Tape	50	roll		
	Brazing Rod (10pcs/box)	10	box		
	Waste Cloth	10	kg		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost VIII	**₱**
				Labor Cost VIII	
				Direct Cost VIII	**₱**
IX	**FIRE PROTECTION WORKS**				
A	Roughing-ins, Pipes and Fittings				
	25mm Ø B.I. Pipe, Schedule 40	276	pcs	₱	₱
	32mm Ø B.I. Pipe, Schedule 40	76	pcs		
	40mm Ø B.I. Pipe, Schedule 40	23	pcs		
	50mm Ø B.I. Pipe, Schedule 40	15	pcs		
	65mm Ø B.I. Pipe, Schedule 40	47	pcs		
	75mm Ø B.I. Pipe, Schedule 40	17	pcs		
	100mm Ø B.I. Pipe, Schedule 40	41	pcs		
	100mm Ø x 65mm Ø B.I. Tee, Weldable	11	pcs		
	100mm Ø x 75mm Ø B.I. Tee, Weldable	6	pcs		
	100mm Ø x 100mm Ø B.I. Tee, Weldable	2	pcs		
	65mm Ø B.I. 90° Elbow, Weldable	25	pcs		
	75mm Ø B.I. 90° Elbow, Weldable	21	pcs		
	100mm Ø B.I. 90° Elbow, Weldable	16	pcs		
	65mm Ø x 40mm Ø B.I. Reducer, Weldable	6	pcs		
	75mm Ø x 65mm Ø B.I. Reducer, Weldable	9	pcs		
	100mm Ø x 65mm Ø B.I. Reducer, Weldable	5	pcs		
	65mm Ø B.I. Slip-on-Flange	84	pcs		
	75mm Ø B.I. Slip-on-Flange	147	pcs		
	100mm Ø B.I. Slip-on-Flange	206	pcs		
	25mm Ø x 25mm Ø B.I. Tee, Threaded	201	pcs		
	32mm Ø x 25mm Ø B.I. Tee, Threaded	261	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	32mm Ø x 32mm Ø B.I. Tee, Threaded	77	pcs		
	40mm Ø x 25mm Ø B.I. Tee, Threaded	37	pcs		
	40mm Ø x 40mm Ø B.I. Tee, Threaded	16	pcs		
	50mm Ø x 25mm Ø B.I. Tee, Threaded	7	pcs		
	50mm Ø x 50mm Ø B.I. Tee, Threaded	10	pcs		
	25mm Ø 90° B.I. Elbow, Threaded	450	pcs		
	32mm Ø 90° B.I. Elbow, Threaded	16	pcs		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	40mm Ø 90° B.I. Elbow, Threaded	23	pcs		
	50mm Ø 90° B.I. Elbow, Threaded	14	pcs		
	32mm Ø x 25mm Ø B.I. Reducer, Threaded	210	pcs		
	40mm Ø x 32mm Ø B.I. Reducer, Threaded	107	pcs		
	50mm Ø x 25mm Ø B.I. Reducer, Threaded	2	pcs		
	50mm Ø x 40mm Ø B.I. Reducer, Threaded	12	pcs		
	32mm Ø B.I. Threadolet, Threaded	13	pcs		
	40mm Ø B.I. Threadolet, Threaded	89	pcs		
	50mm Ø B.I. Threadolet, Threaded	11	pcs		
	25mm Ø B.I. Union Patent, Threaded	14	pcs		
	40mm Ø B.I. End Cap, Threaded	14	pcs		
	13mm Ø B.I. Plug, Threaded	650	pcs		
B	Valves and Appurtenances				
	65mm Ø Fire Hose Valve	14	pcs		
	25mm Ø Sight Glass	7	pcs		
	25mm Ø Inspector Test Connection	7	pcs		
	25mm Ø Globe Valve	21	pcs		
	50mm Ø Globe Valve	1	pc		
	50mm Ø Check Valve	1	pc		
	100mm Ø Check Valve	1	pc		
	100mm Ø Alarm Check Valve	1	pc		
	75mm Ø Relief Valve	1	pc		
	75mm Ø Butterfly Valve with Tamper Switch	7	pcs		
	100mm Ø Flow Switch	7	pcs		
	300psi Pressure Gauge	9	pcs		
	750gpm Flow Meter	1	pc		
	100mm Ø Victaulic Coupling	21	pcs		
	100mm Ø OS & Y	2	pcs		
C	Fixtures				
	Fire Sprinkler Head				
	13mm Ø Upright-type Fire Sprinkler Head, 68°C	334	pcs		
	13mm Ø Pendent-type Fire Sprinkler Head, 68°C	288	pcs		
	13mm Ø Sidewall-type Fire Sprinkler Head, 68°C	28	pcs		
	Fire Department Connection	1	set		
	Fire Extinguisher	15	pcs		
	Fire Hose Cabinet	14	sets		
	Roof Manifold	1	pc		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
D	Pipe Hangers and Supports				
	Hangers for 25mm Ø B.I. Pipe	1,656	lm	₱	₱
	Hangers for 40mm Ø B.I. Pipe	594	lm		
	Hangers for 50mm Ø B.I. Pipe	90	lm		
	Hangers for 65mm Ø B.I. Pipe	282	lm		
	Hangers for 75mm Ø B.I. Pipe	102	lm		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Hangers for 100mm Ø B.I. Pipe	246	lm		
	Support for Vetical Pipes	348	lm		
E	Miscellaneous & Consumables				
	20mm Ø Masonry Drill Bit	10	pcs		
	20mm Ø Metal Drill Bit	40	pcs		
	Hacksaw Blade	25	pcs		
	Rubber Gasket	4	lm		
	Special Purpose Sealant	80	tubes		

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Teflon Tape	2,304	rolls		
	Threading Oil	15	gals		
	Waste Cloth	20	kg		
	Welding Rod	15	boxes		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost IX	**₱**
				Labor Cost IX	
				Direct Cost IX	**₱**
X	**UTILITY AND ANCILLARY WORKS**				
	Septic Tank (6.50m L x 2.30m W x 2.525m D)	34	cu.m.		
	Cistern Tank (5.40m L x 4.40m W x 3.425m D)	66	cu.m.		
	460mmØ Reinforced Concrete Pipe	63	l.m.		
	610mmØ Reinforced Concrete Pipe	136	l.m.		
	Area Drain (0.39mx0.92mx1m)	8	sets		
	Manhole (1.1mx1.7mx1.1m)	21	cu.m.		
				Direct Cost X	**₱**

SUMMARY

ITEM NO	WORK DESCRIPTION and SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	SITE WORKS	
III	CIVIL / STRUCTURAL WORKS	
IV	ARCHITECTURAL WORKS	
V	SANITARY / PLUMBING WORKS	
VI	ELECTRICAL WORKS	
VII	AUXILIARY SYSTEM WORKS	
VIII	MECHANICAL WORKS	
IX	FIRE PROTECTION WORKS	
X	UTILITY AND ANCILLARY WORKS	
	TOTAL DIRECT COST	**₱**
	Overhead, Contingencies and Miscellaneous Expenses (OCM)	
	PROFIT	
	VAT	
	TOTAL ESTIMATED COST	**₱**

ITEM NO.	WORK DESCRIPTION and SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST

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);
and

☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and

☐ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and

☐ (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid *(please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy)*; **and**

☐ (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance *(please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy)*; **and**

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

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

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

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

☐ b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data *(please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy)*;

☐ 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 *(please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy)*; **and**

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

Additional Technical Requirements:

- ☐ Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement
- ☐ Affidavit of Undertaking for Key Personnel and Equipment *(please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy)*
- ☐ Equipment Utilization Schedule
- ☐ Manpower Schedule
- ☐ Construction Schedule and S-Curve
- ☐ PERT-CMP
- ☐ Construction Methods

Financial Documents

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

☐ (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) *(please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy).*

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

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

☐ (r) Cash Flow by Quarter.

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: _____

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]

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]

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

AFFIDAVIT

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

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

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

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

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

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

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

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

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

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

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

   [If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or

the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

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

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

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

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

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

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

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

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

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]

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: _____

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTHNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION *IF APPLICABLE*	PERCENTAGE		VALUE OF OUTSTANDING WORKS (IN PHP)
									ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	
									TOTAL AMOUNT (Php) OF OUTSTANDING WORKS		

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

LIST OF ALL AWARDED BUT NOT YET STARTED GOVERNMENT AND PRIVATE CONTRACTS OF THE BIDDER

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

PROJECT TITLE & EXACT LOCATION	MAJOR SCOPE OF WORKS & DATE STARTED	NAME AND ADDRESS OF PROJECT OWNER	CONTRACT PRICE (PHP) AS AWARDED	DATE OF SCHEDULED COMPLETION	ROLE OF BIDDER IN THE CONTRACT SOLE CONTRACTOR / SUB-CONTRACTOR/PARTNER IN A
		TOTAL AMOUNT OF CONTRACT (Php)			

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTHNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETIONTIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

TYPE	DESCRIPTION / CAPACITY	SERIAL NO.	YEAR ACQUIRED	PRESENT LOCATION (SPECIFIC ADDRESS)	STATUS OF AVAILABILITY (OWNED/LEASED)

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

A. LIST OF KEY CONSTRUCTION PERSONNEL TO BE ASSIGNED TO THE PROJECT

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

NAME	POSITION	AGE	EDUCATIONAL ATTAINMENT	TYPE OF CONSTRUCTION EXPERIENCE	NO.OF YEARS WITH THE CONTRACTOR	PROFESSION	PRC NO.

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER: _____

CURRENT ASSETS*		PHP	
(LESS) CURRENT LIABILITIES*	(LESS)	PHP	
NETWORTH		PHP	
NETWORTH x 15	x 15	PHP	
(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**	(LESS)	PHP	
(LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE**	(LESS)	PHP	
NET FINANCIAL CONTRACTING CAPACITY		PHP	

NOTES:

* CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.

** BASED ON LIST OF ON-GOING AND AWRDED BUT NOT YEY STARTED CONTRACTS SUBMITTED

REPUBLIC OF THE PHILIPPINES)

_____) S. S.

AFFIDAVIT OF UNDERTAKING

I, _____, of legal age, Filipino, _____ ***[OFFICER OR REPRESENTATIVE]*** _____

with office address at _____ after having been duly sworn to in accordance with law, hereby voluntary depose and state:

That I am duly authorized representative of the **[Name of Bidder** _____to execute this undertaking as evidenced by Secretary's Certificate and Board Resolution.

That **[Name of Bidder]** bidding for the (Name of Project)

That relative to the aforementioned Project, the [Name of Bidder] hereby undertake that the equipment to be use and the key personnel to be assign shall exclusively be used and will only perform to the said project until its completion.

That I am executing this affidavit to attest to the truth of the foregoing and in compliance with the submission of the technical requirements for the public bidding of the said project.

IN WITNESS HEREOF, I have hereunto signed my name below this _____ day of_____, _____ at _____.

AFFIANT FURTHER SAYETH NAUGHT.

_____

Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this ___ day of _____, _____ in _____,

affiant exhibiting to me his/her _____ issued at _____ on _____.

Doc. No. ;
Page No. ;
Book No. ;
Series of 2020

_____

Notary Public


Republic of the Philippines
gppb
Government Procurement Policy Board