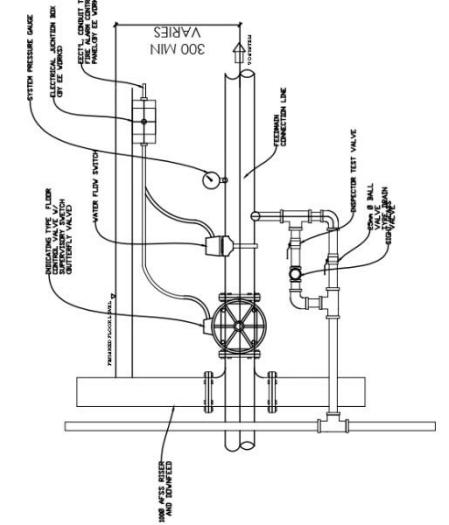
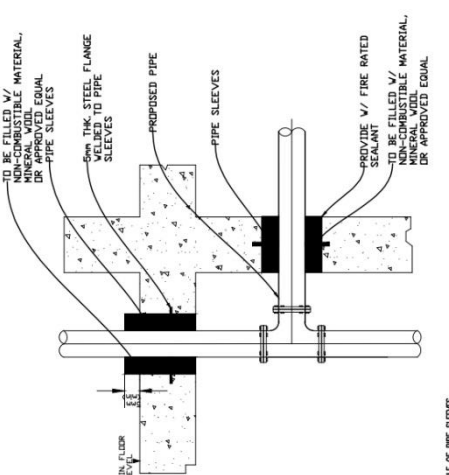


**4 ALARM CHECK VALVE ASSEMBLY**  
 NTS



**3 FLOOR CONTROL VALVE ASSEMBLY**  
 NTS

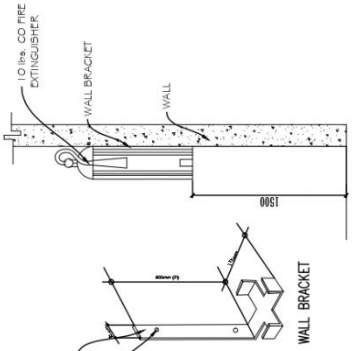


**1 PIPE SLEEVES DETAILS**  
 NTS

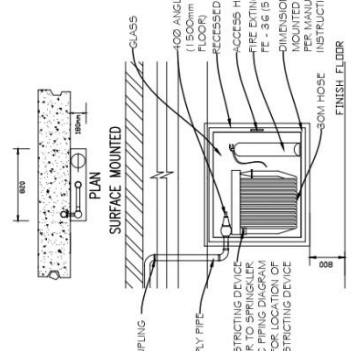
SCHEDULE OF PIPE SLEEVES

SIZE OF BRANCHES	TYPE OF PIPE SLEEVES
25MM	25MM
32MM	32MM
40MM	40MM
50MM	50MM
63MM	63MM
75MM	75MM
90MM	90MM
100MM	100MM
125MM	125MM
150MM	150MM
200MM	200MM
250MM	250MM
300MM	300MM

- NOTE: SLEEVES SHALL BE PROVIDED THROUGH ALL PIPING EXISTING THROUGH WALLS, FLOORS, PARTITIONS AND FOUNDATIONS.
1. THE CLEARANCE BETWEEN THE PIPE SLEEVES SHALL BE FILLED WITH NON-COMBUSTIBLE FLEXIBLE MATERIAL SUCH AS MINERAL WOOL, FIBER GLASS OR EXPANDED POLYSTYRENE.
  2. MINIMUM CLEARANCE BETWEEN PIPE AND SLEEVES SHALL NOT BE LESS THAN 20MM FOR PIPE SIZE THROUGH 75MM & 40MM FOR PIPE SIZE 100MM AND LARGER. FLOOR SLEEVES SHALL BE EXTENDED AT LEAST 75MM ABOVE THE TOP OF THE FINISH SURFACE.



**6 FIRE EXTINGUISHER DETAILS**  
 NTS

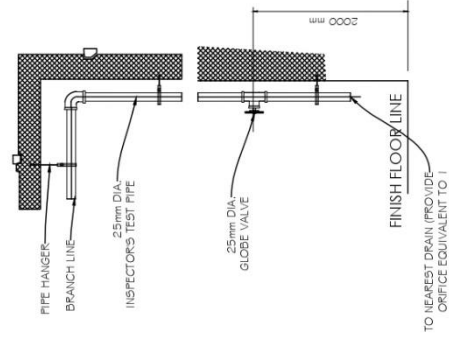


**5 FIRE HOSE CABINET DETAILS**  
 NTS

SCHEDULE OF EQUIPMENT

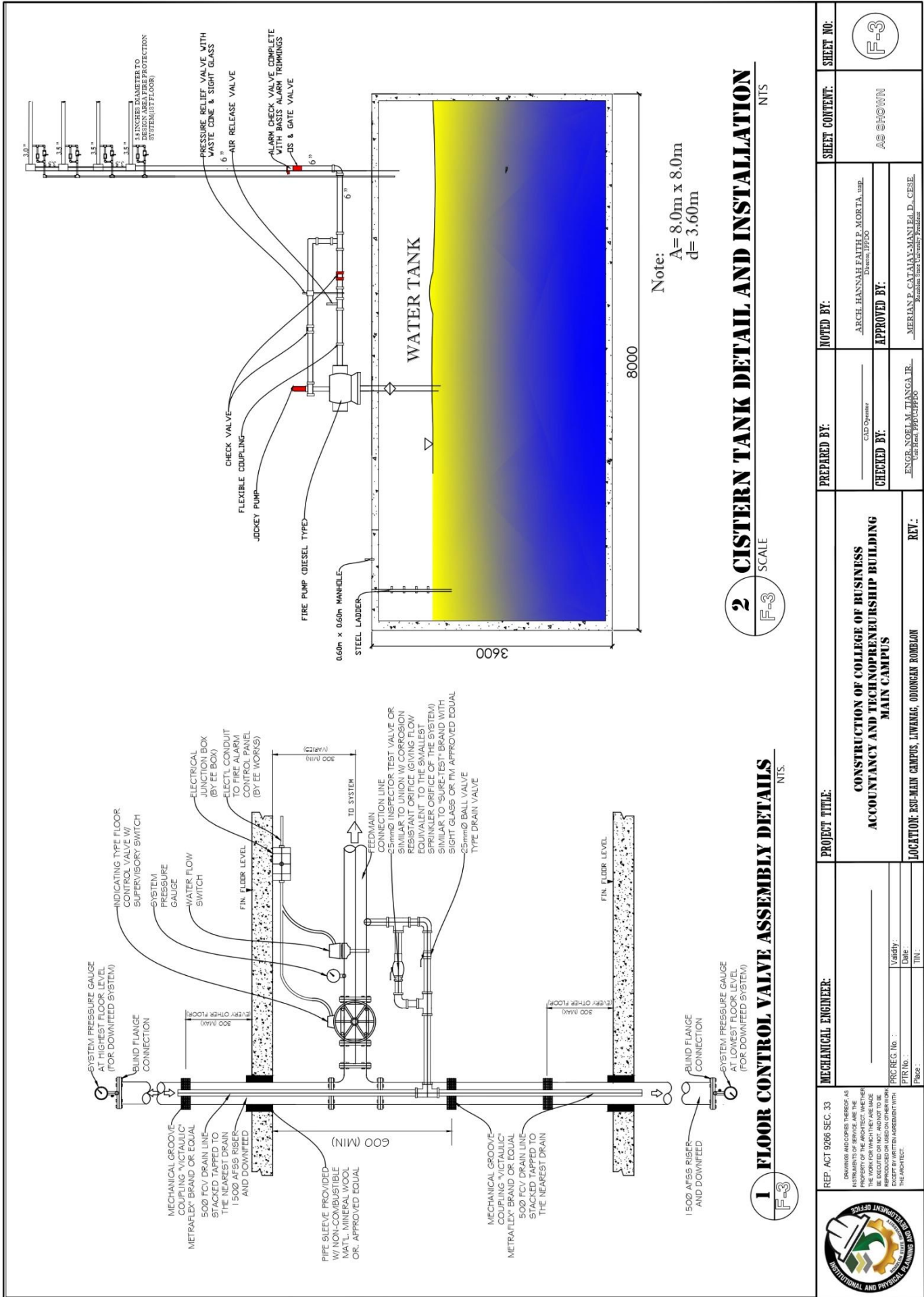
DESCRIPTION	QUANTITY	WEIGHT		TYPE (LOCATION)	DA	MINIMUM VOLUME OF PROTECTION	EXTINGUISHING AGENT	REMARKS
		GROSS	NET					
FE	36	18.8 lbs.	10 lbs.	WALL MOUNTED	15.2cm	51 cum	HFC 123	ENVIRONMENT FRIENDLY, BRAND NEW AND READY FOR SERVICE

**2 INSPECTOR TEST CONNECTION DET.**  
 NTS



TO NEAREST DRAIN (PROVIDE OFFICE EQUIVALENT TO 1 SPRINKLER AT PIPE END)

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	<p>PROJECT TITLE:</p> <p><b>CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING MAIN CAMPUS</b></p> <p>LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON</p>	<p>CHECKED BY:</p> <p>ENGR. NOEL M. TIANGALIR, IED, Director, IEPDPO</p>	<p>APPROVED BY:</p> <p>MERIAN P. CATAJAY-MANLEA, D., CESE, Associate, IEPDPO</p>	<p>SHEET CONTENT:</p> <p>AS SHOWN</p>



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	Validity: _____ Date: _____ Title: _____	<b>LOCATION:</b> BSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON		<b>CHECKED BY:</b> ENGR. NORI M. TANGA, JR. US-1001, IPFDD	<b>APPROVED BY:</b> MERIAN P. GATAAY-MANI, Ed.D., CESE Associate Dean, University President	



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**1**  
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PRC REG. No. :  
 PTR No. :  
 Page:

Validity:  
 Date :  
 TIN:

**PROJECT TITLE:**  
**CONSTRUCTION OF COLLEGE OF BUSINESS  
 ACCOUNTANCY AND TECHNOENTREURSHIP BUILDING  
 MAIN CAMPUS**

**LOCATION:** RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

**REV.:**

**PREPARED BY:**  
 CLD Operator

**CHECKED BY:**  
 ENGR. NOEL M. TANCOA JR.  
Unit Head, PROTECTO

**NOTED BY:**  
 ARCH. HANNAH FAITH P. MORTA, JR.  
Director, PROTECTO

**APPROVED BY:**  
 MERIAN P. CALAMAYAN, M. Sc., D. CESE  
President, PROTECTO, Romblon

**SHEET CONTENT:**  
 AS SHOWN

**SHEET NO.:**  
 F-4

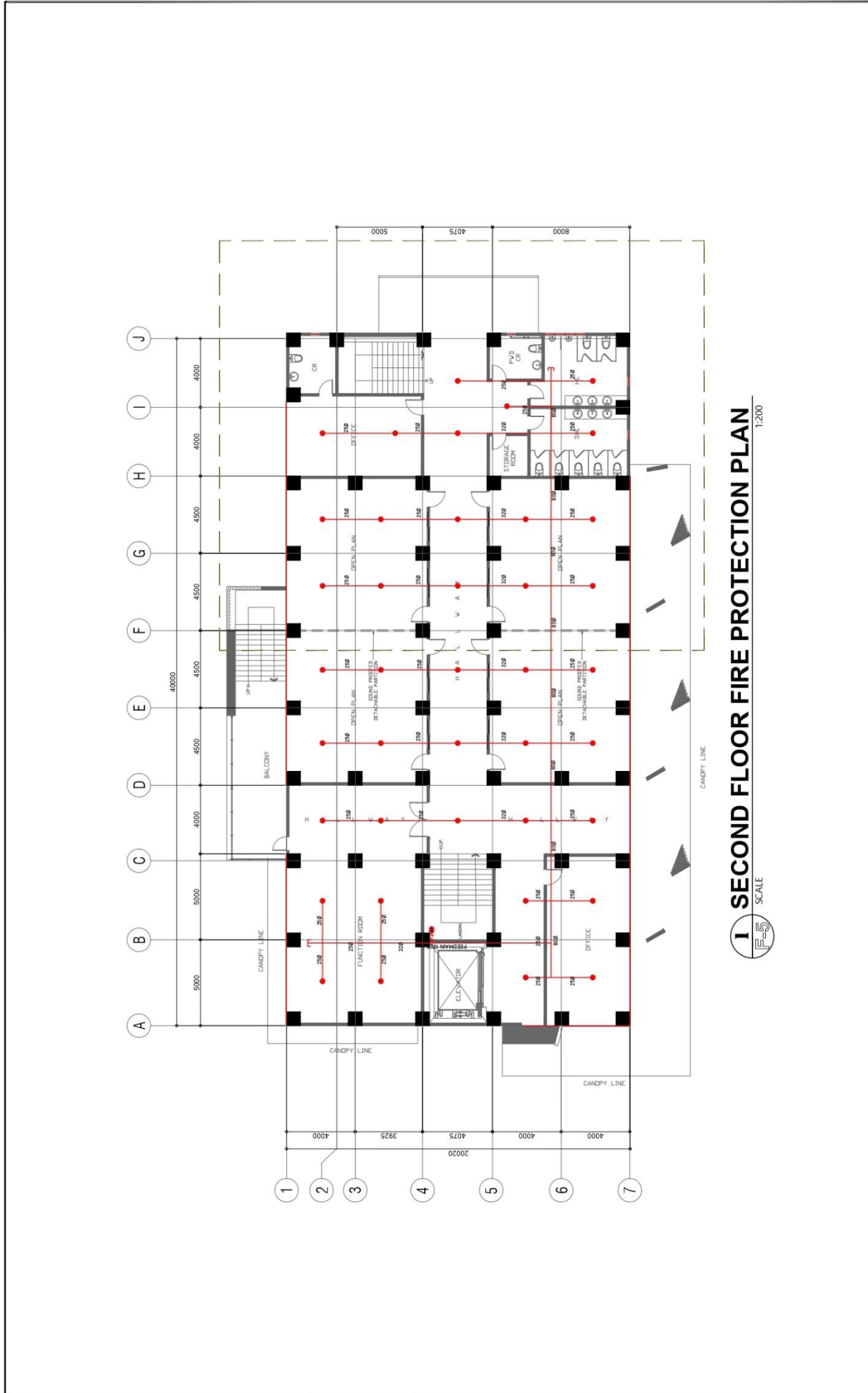


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**1 SECOND FLOOR FIRE PROTECTION PLAN**  
 SCALE 1:200

MECHANICAL ENGINEER: _____ Validity: _____ Date: _____ PRC REG. No.: _____ PTR No.: _____ Place: _____	<b>PROJECT TITLE:</b> <b>CONSTRUCTION OF COLLEGE OF BUSINESS          ACCOUNTANCY AND TECHNOENTREURSHIP BUILDING          MAIN CAMPUS</b>		<b>NOTED BY:</b> ARCH. HANNAH FAITH P. MORTA, MHP Director, IPRD	<b>SHEET NO.:</b> F-5
	<b>LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON</b>		<b>APPROVED BY:</b> MEERIAN P. CATANAY-MANI, Ed. D., CESE Romblon State University President	<b>SHEET CONTENT:</b> AS SHOWN
<b>REV.:</b> _____ _____ _____		<b>PREPARED BY:</b> CAD Operator	<b>CHECKED BY:</b> ENGR. NOEL M. TIANGAL JR. Unit Head, IPRD/UPD	





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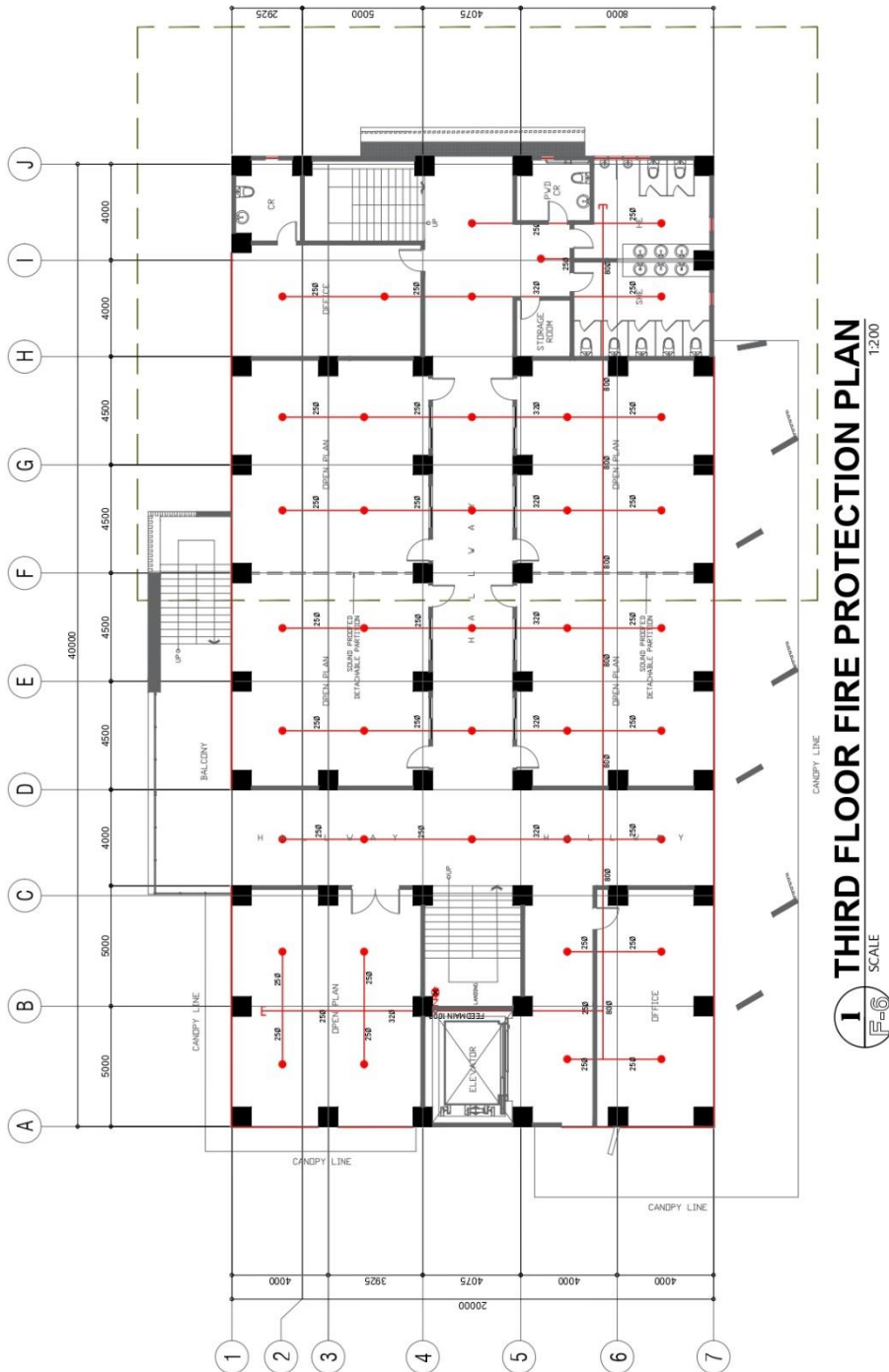
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**1** THIRD FLOOR FIRE PROTECTION PLAN  
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MECHANICAL ENGINEER:  Validity: _____ Date: _____ TIN: _____	<b>PROJECT TITLE:</b> <b>CONSTRUCTION OF COLLEGE OF BUSINESS          ACCOUNTANCY AND TECHNOpreneurSHIP BUILDING          MAIN CAMPUS</b>		<b>PREPARED BY:</b> CAD Operator	<b>NOTED BY:</b> ARCH. HANNAH FAITH P. MORTA, IRE. Director, PPDO	<b>SHEET CONTENT:</b> AS SHOWN	<b>SHEET NO.:</b> F-6
	<b>LOCATION:</b> BSP-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON		<b>CHECKED BY:</b> ENGR. NOEL M. TANAGA JR. Unit Head, PPDO/PPSO	<b>APPROVED BY:</b> MERIAN P. CALAYAG-MANI Ed.D., CESE. Romblon State University President		





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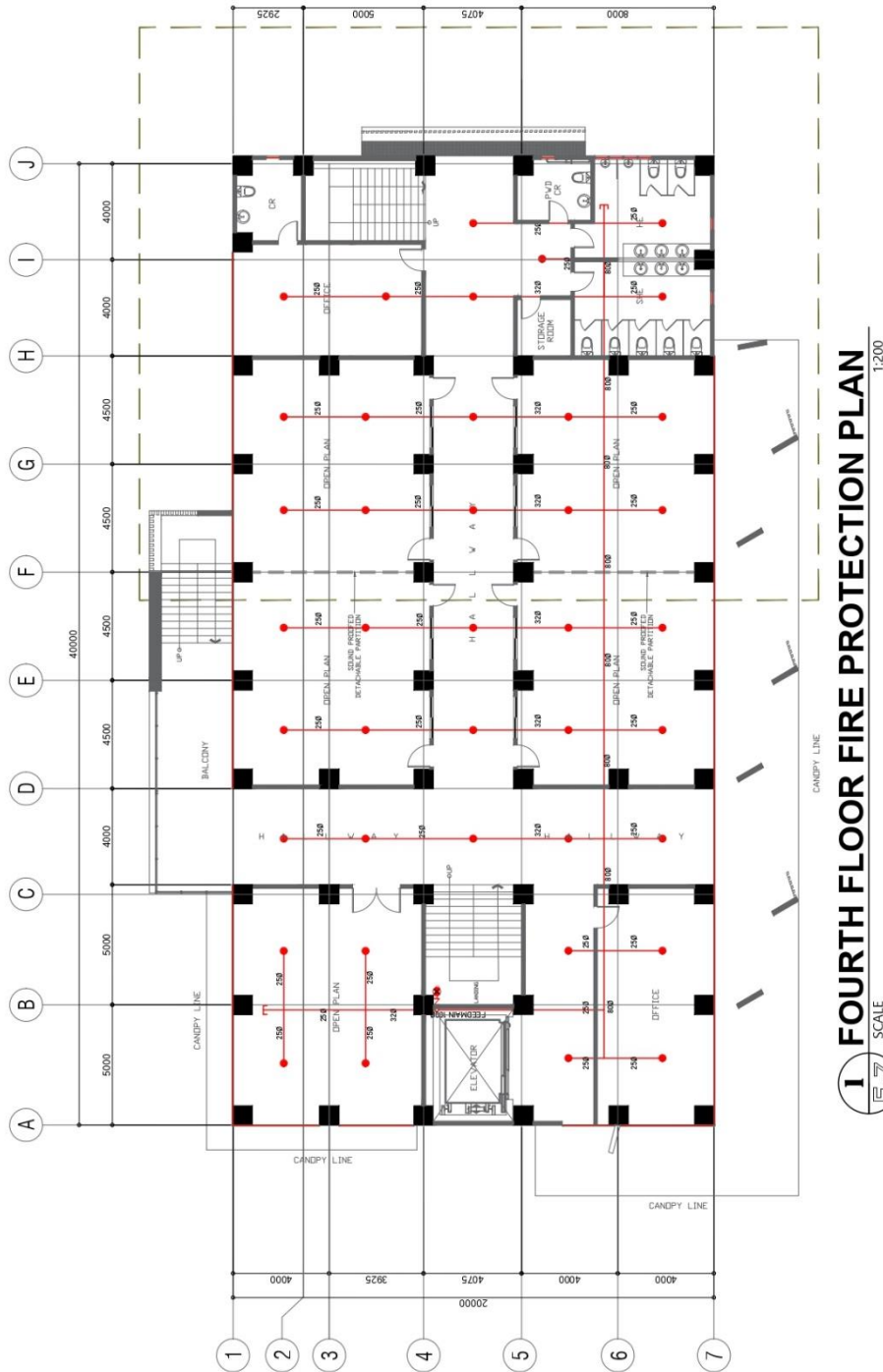
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**1** FOURTH FLOOR FIRE PROTECTION PLAN  
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MECHANICAL ENGINEER:  Validity: _____ Date: _____ TIN: _____ PRC REG. No.: _____ PTR No.: _____ Place: _____	<b>PROJECT TITLE:</b> <b>CONSTRUCTION OF COLLEGE OF BUSINESS          ACCOUNTANCY AND TECHNOPREURSHIP BUILDING          MAIN CAMPUS</b>		<b>PREPARED BY:</b> CLD Ogema	<b>NOTED BY:</b> ARCH. HANNAH FAITH P. MORTA, UEP, Director, IPRDO	<b>SHEET CONTENT:</b> AS SHOWN	<b>SHEET NO.:</b> F-7
	<b>LOCATION:</b> RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	<b>REV.:</b>	<b>CHECKED BY:</b> ENGR. NOEL M. TIANGA JR., Civil Engr., IPRDO-IPRDO	<b>APPROVED BY:</b> MERIAN P. CATARY-MANUEL, D., CESE, Associate Dean, University 2 Building		





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## SCHEDULE OF EQUIPMENT

EQUIP. NO.	INDOOR UNIT			OUTDOOR UNIT		
	HP (Nomopower)	COOLING CAPACITY (BTU/Hr.)	QTY.	TYPE	ARFLOW (Cum/Hr.)	EQUIP. NO.
ACU1	1.50	12000	1	WALL MOUNTED	520/360/250	OU1
ACU2	2.00	18000	1	WALL MOUNTED	950/620/520	OU2
ACU3	2.00	18000	1	WALL MOUNTED	950/620/520	

ACU – AIR-CONDITIONING UNITS  
OU – OUTDOOR UNITS

EQUIP. NO.	INDOOR UNIT			OUTDOOR UNIT		
	HP (Nomopower)	COOLING CAPACITY (BTU/Hr.)	QTY.	TYPE	ARFLOW (Cum/Hr.)	EQUIP. NO.
ACU9	1.50	12000	1	WALL MOUNTED	520/360/250	OU6
ACU10	2.00	18000	1	WALL MOUNTED	950/620/520	OU7
ACU11	2.00	18000	1	WALL MOUNTED	950/620/520	
ACU12	2.00	18000	1	WALL MOUNTED	950/620/520	OU8
ACU13	2.00	18000	1	WALL MOUNTED	950/620/520	

ACU – AIR-CONDITIONING UNITS  
OU – OUTDOOR UNITS

EQUIP. NO.	INDOOR UNIT			OUTDOOR UNIT		
	HP (Nomopower)	COOLING CAPACITY (BTU/Hr.)	QTY.	TYPE	ARFLOW (Cum/Hr.)	EQUIP. NO.
ACU4	1.50	12000	1	WALL MOUNTED	520/360/250	OU3
ACU5	2.00	18000	1	WALL MOUNTED	950/620/520	OU4
ACU6	2.00	18000	1	WALL MOUNTED	950/620/520	
ACU7	2.00	18000	1	WALL MOUNTED	950/620/520	OU5
ACU8	2.00	18000	1	WALL MOUNTED	950/620/520	

ACU – AIR-CONDITIONING UNITS  
OU – OUTDOOR UNITS

EQUIP. NO.	INDOOR UNIT			OUTDOOR UNIT		
	HP (Nomopower)	COOLING CAPACITY (BTU/Hr.)	QTY.	TYPE	ARFLOW (Cum/Hr.)	EQUIP. NO.
ACU14	1.50	12000	1	WALL MOUNTED	520/360/250	OU9
ACU15	2.00	18000	1	WALL MOUNTED	950/620/520	OU10
ACU16	2.00	18000	1	WALL MOUNTED	950/620/520	
ACU17	2.00	18000	1	WALL MOUNTED	950/620/520	OU11
ACU18	2.00	18000	1	WALL MOUNTED	950/620/520	

ACU – AIR-CONDITIONING UNITS  
OU – OUTDOOR UNITS

### GENERAL NOTES:

1. PROVIDE ALL EQUIPMENT & MATERIALS REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWING.
2. CONTRACT CONSTRUCTION DRAWINGS FOR ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL EQUIPMENT AND APPARATUS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS AND APPLICABLE CODES AND REGULATIONS.
4. COORDINATE CONSTRUCTION OF ALL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
5. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWINGS.
6. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS AND DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
7. LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF OPENING SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

### LEGEND :

- ACU# AIR-CONDITION UNIT
- OU# OUTDOOR UNIT

	REVISIONS: No.   Description _____   _____ _____   _____	PROJECT TITLE: <b>CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENURSHIP BUILDING MAIN CAMPUS</b>	PROJECT NO.: _____	SHEET NO.: 
	MECHANICAL ENGINEER: _____ Validity: _____ Date: _____ TIN: _____	PREPARED BY: _____ CHECKED BY: _____	NOTED BY: _____ APPROVED BY: _____	SHEET CONTENT: AS SHOWN
REV: _____		LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON		





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<h2>I GROUND FLOOR ACUMV PLAN</h2> <p>SCALE: 1/200</p>				

Validity: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 TIN: \_\_\_\_\_



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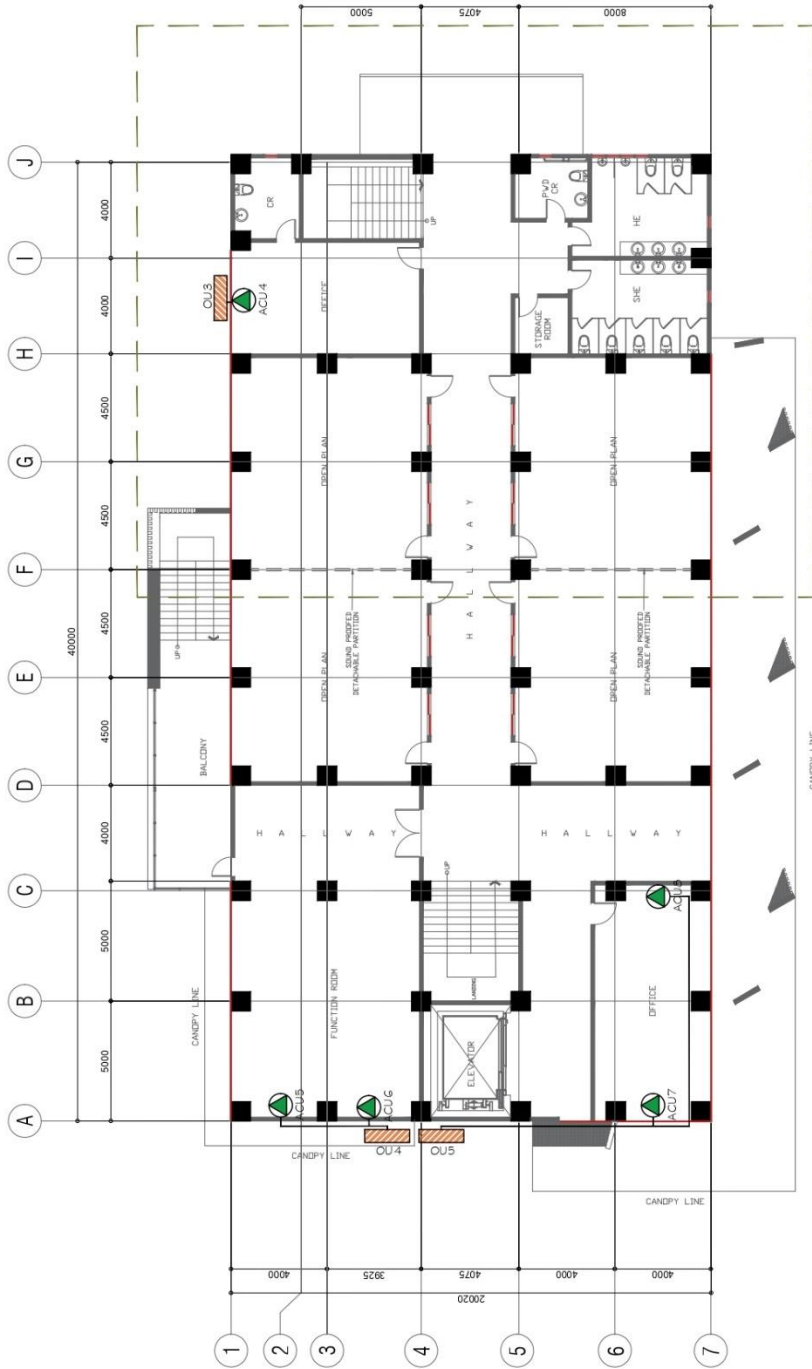
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**I SECOND FLOOR ACMV PLAN**  
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	<b>LOCATION:</b> RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	<b>REV.:</b>				



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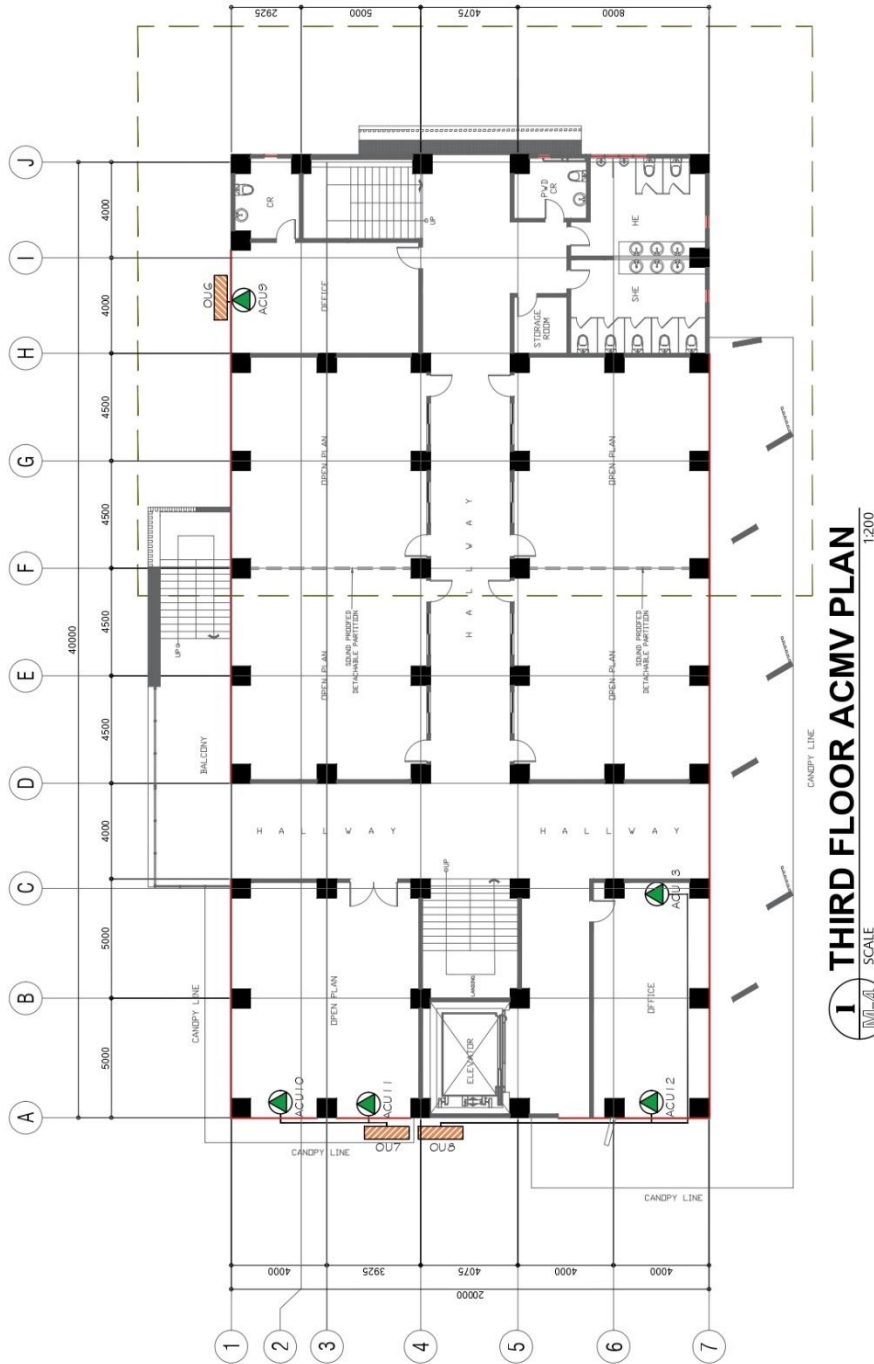
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**1 THIRD FLOOR ACMV PLAN**  
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	<p>PREPARED BY:</p> <p>CAD Operator</p>	<p>CHECKED BY:</p> <p>ENGR. NOEL M. TANGA JR.        Unit Head, IPPDO</p>	<p>APPROVED BY:</p> <p>MERIAN P. CATAAY-MANI Ed. D. CESE        Romblon State University President</p>		
<p>LOCATION: EST-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON</p>					

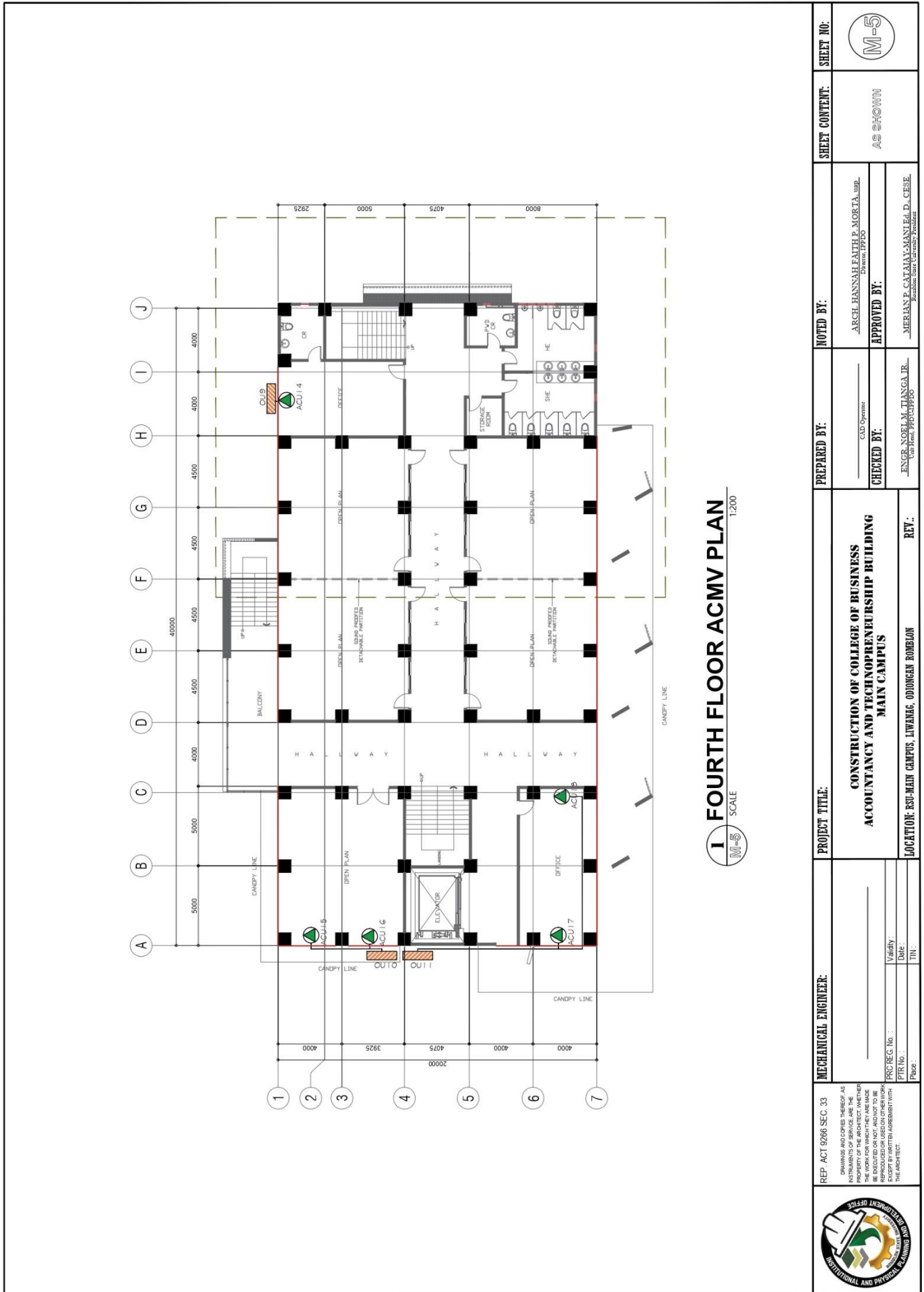


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	<b>LOCATION:</b> RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	<b>APPROVED BY:</b> ENGR. NOEL M. TIANGA JR. Unit Head, JPP20/JPP20	<b>CHECKED BY:</b> CLD Operator



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**I** GROUND FLOOR SEWER LINE LAYOUT PLAN  
SCALE 1:200

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	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	REV.: _____	APPROVED BY: _____ MERIAN P. CATALAN-MANUEL, D. CESE, Assistant Vice University President			

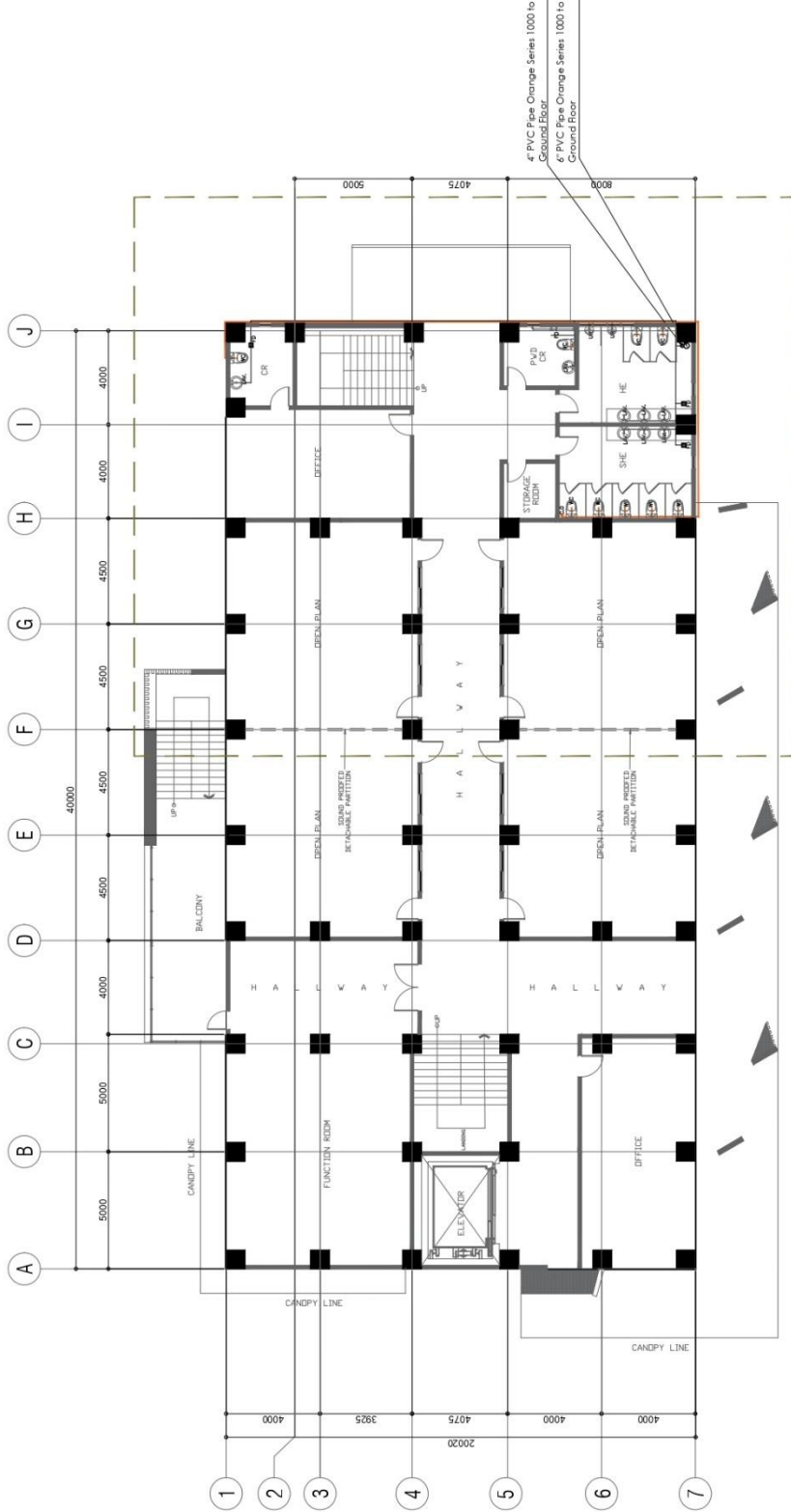


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**I** SECOND FLOOR SEWER LINE LAYOUT PLAN  
SCALE 1:200

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	<b>PROJ. REG. No.:</b> _____ <b>DATE:</b> _____ <b>Place:</b> _____	<b>LOCATION:</b> EST-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	<b>CHECKED BY:</b> ENGR. NOEL M. TANGA JR., <i>isp</i> Civil Engr., JEPDPO	<b>APPROVED BY:</b> MERIAN P. CATAJAY-MANTEJED, D., <i>CESE</i> Romblon State University President		

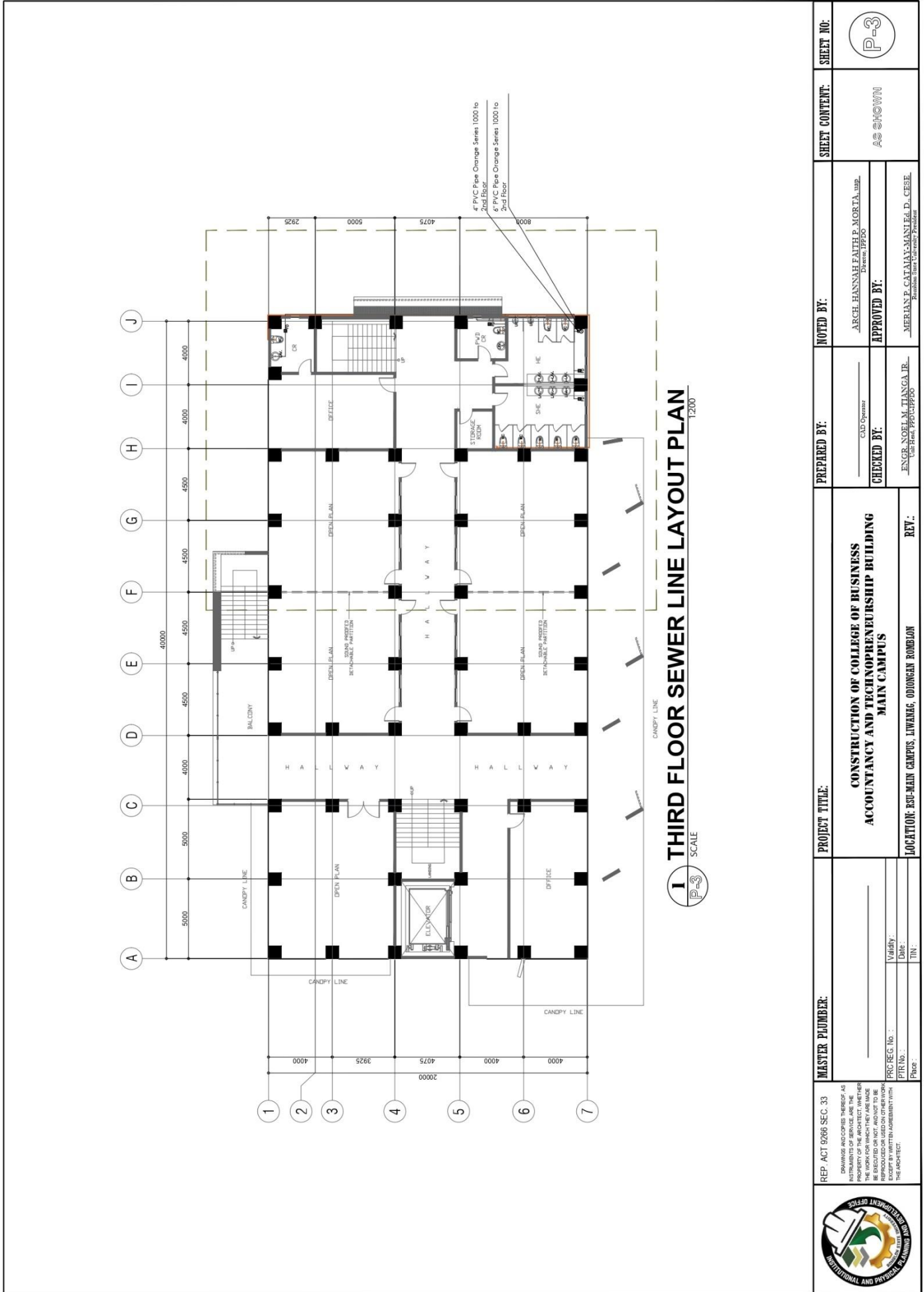


# ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

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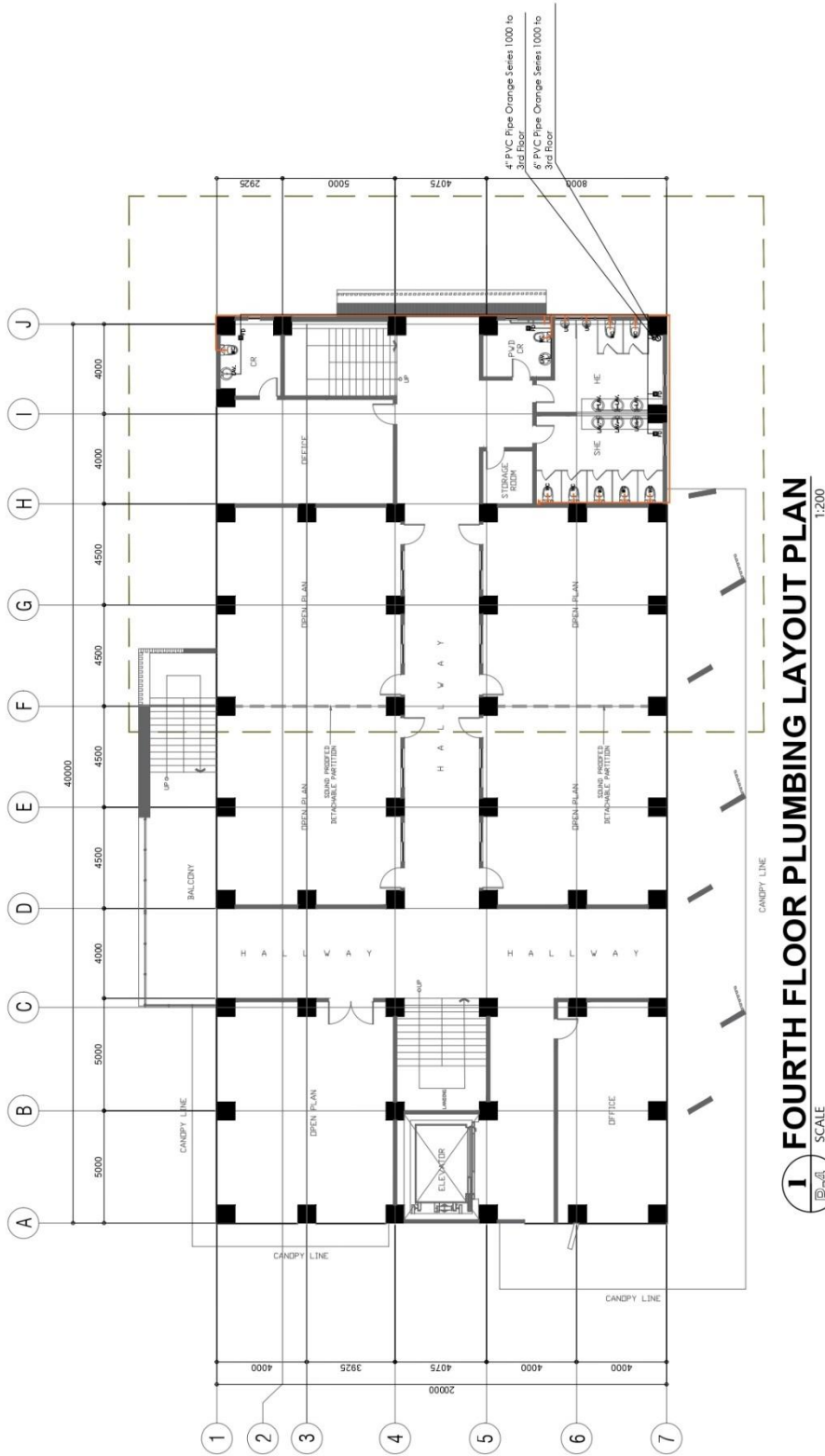
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**I** SCALE 1/4" = 1'-0"  
**FOURTH FLOOR PLUMBING LAYOUT PLAN**

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	<b>REV.:</b> LOCATION: EST-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	<b>CHECKED BY:</b> ENGR. NOEL M. TIANGA, JR. Unit Head, IFFD-CIPD00	<b>APPROVED BY:</b> MERIAN P. CATAVA-MANUEL, D., C.E.E. Romblon State University President			





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**1** **GROUND FLOOR WATER SUPPLY LAYOUT PLAN**  
 SCALE 1:200

<b>MASTER PLUMBER:</b>	<b>PROJECT TITLE:</b> <b>CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING MAIN CAMPUS</b>	<b>NOTED BY:</b> ARCEL HANNAH FAITH P. MORTA, UWP Drafter: PPR20	<b>SHEET CONTENT:</b> AS SHOWN	<b>SHEET NO.:</b> P-5
<b>REP. ACT 9286 SEC. 33</b> <small>PROFESSIONAL ENGINEER, ARCHITECT, OR SURVEYOR SHALL NOT BE RESPONSIBLE FOR THE WORK FOR WHICH HE OR SHE HAS NOT PREPARED THE INSTRUMENTS OF SERVICE, AND THE PROPERTY OF THE ARCHITECT, WHETHER THE WORK FOR WHICH HE OR SHE HAS PREPARED THE INSTRUMENTS OF SERVICE, IS OR IS NOT IN HIS OR HER POSSESSION OR CONTROL, AND THE WORK IS EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.</small>	<b>PREPARED BY:</b> CSD Operator	<b>APPROVED BY:</b> MERIAN P. CATAN, MANUEL D. CESE Responsible Team Leader/Project Engineer		
<b>Validity:</b> Date: _____ Place: _____	<b>PRC REG. No.:</b> PTR No.:	<b>REVISIONS:</b>		
<b>LOCATION:</b> RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	<b>REV.:</b>			





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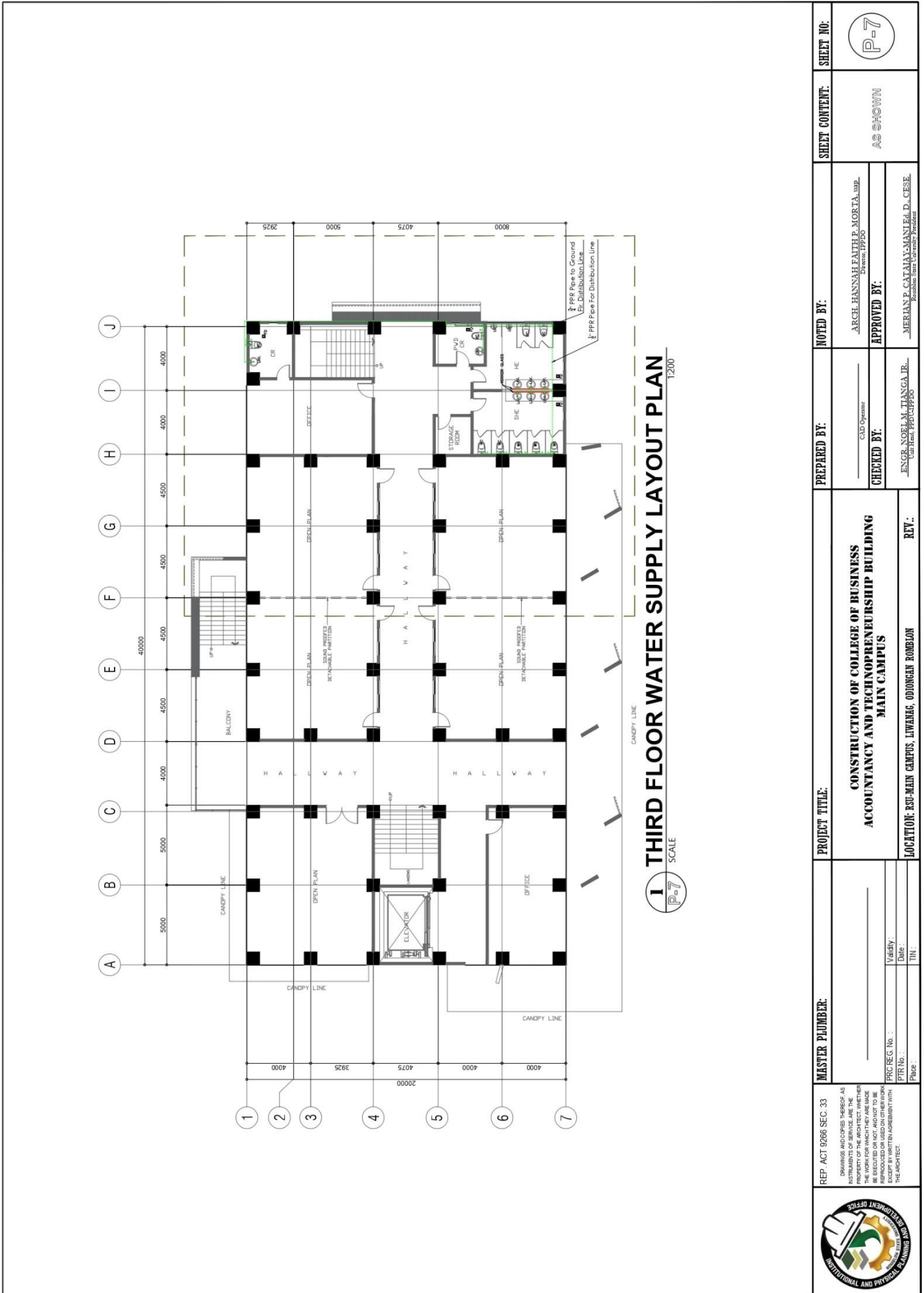
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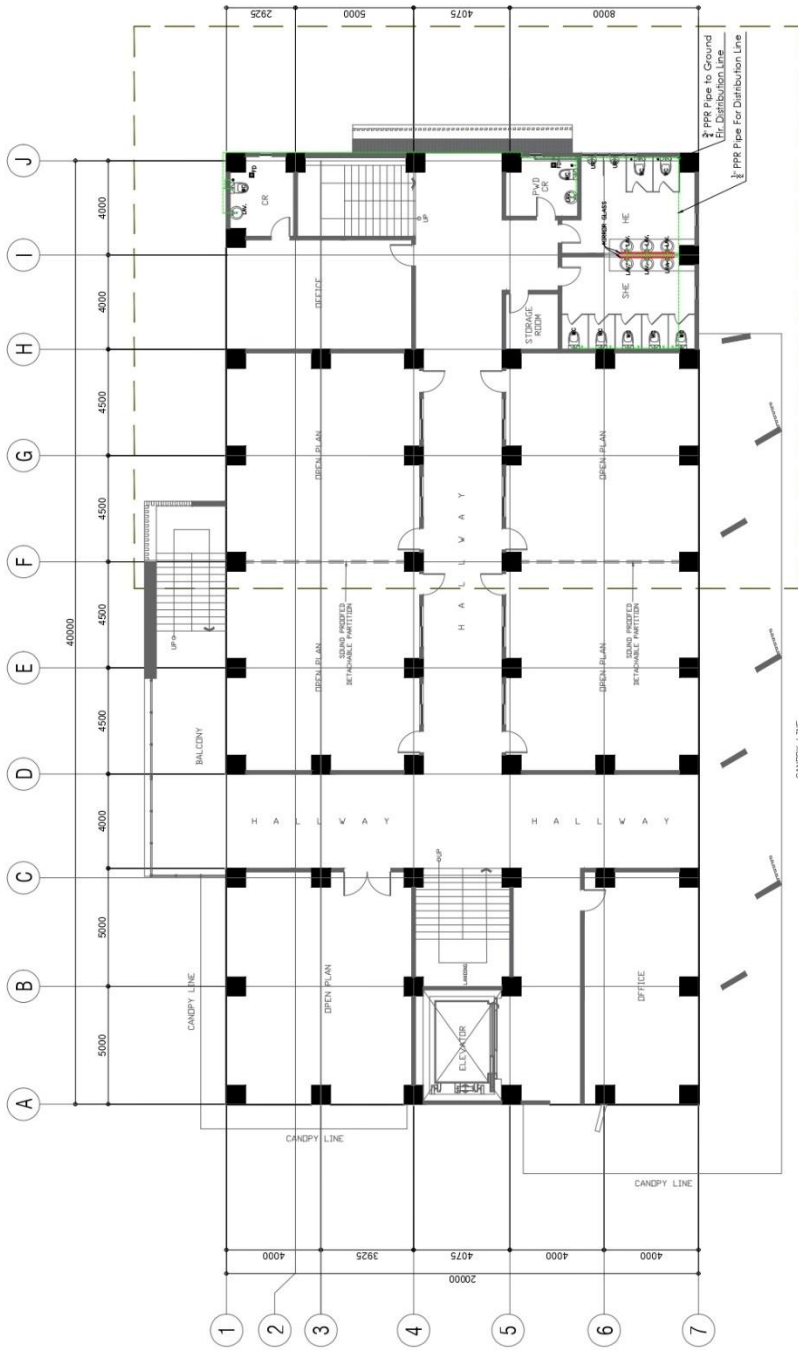
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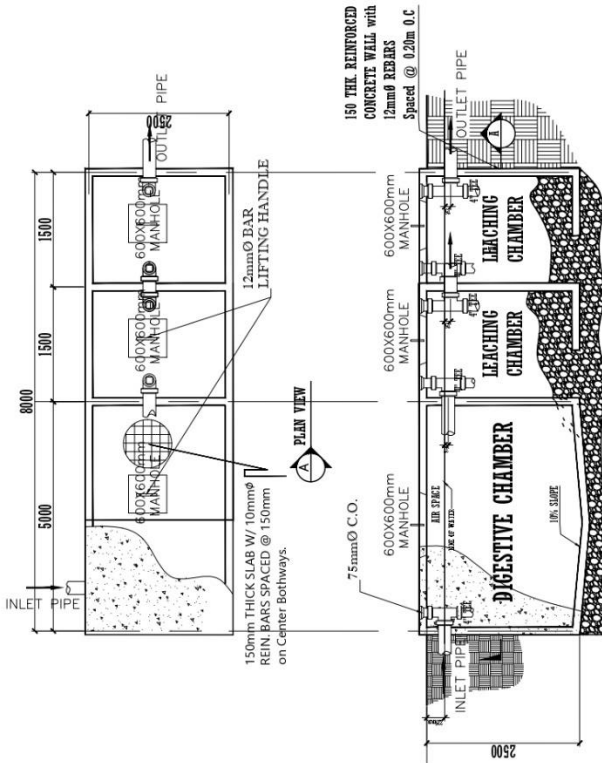


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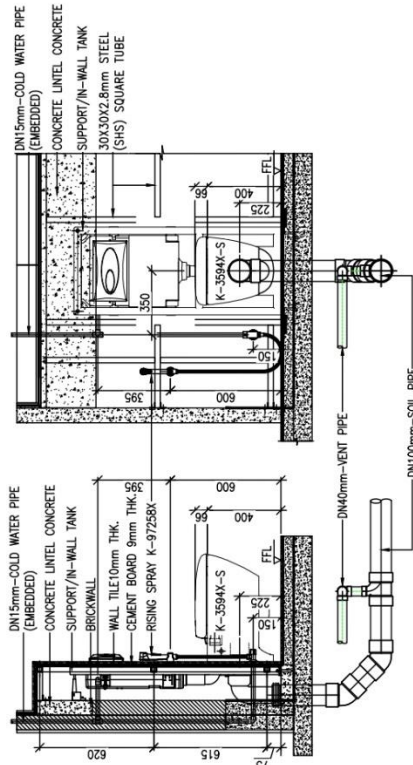


**1** SCALE  
**P-8**  
**FOURTH FLOOR WATER LINE LAYOUT PLAN**  
 1:200

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	_____ V. DATE: _____ P. REG. No.: _____ P. No.: _____ Page: _____	<b>CHECKED BY:</b> _____ ENGR. NORI M. TIANGAIR, IABP Reg. # 000000000	<b>APPROVED BY:</b> _____ MERIAN P. CATAAY-MANJEDA, C.ESE, Associate Dean, University President	<b>REV.:</b> _____	<b>REVISIONS:</b> _____	<b>DATE:</b> _____



**1** PLAN OF SEPTIC VAULT  
 SCALE: 1/8" = 1'-0"

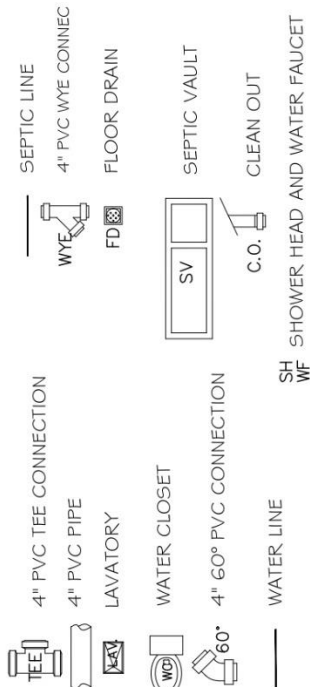


WALL HUNG TOILET TYPICAL INSTALLATION

**SPECIFICATIONS :**

- ALL HORIZONTAL PIPES SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT UNIFORM UNIFORM GRADE NOT LESS THAN 2% AND SHALL BE SUPPORTED OR ANCHORED AT INTERVAL NOT TO EXCEED 1.0 FT.
- ALL PIPES PASSING THRU OR UNDER WALLS AND DRIVEWAYS SHALL BE PROPERLY PROTECTED AGAINST BRACKAGE.
- WORKMANSHIP SHALL BE OF SUCH CHARACTER AS TO FULLY SECURE THE RESULTS SOUGHT IN ALL PROVISIONS OF THE NATIONAL PLUMBING CODE INCLUDING THE FURNISHING OF ALL FITTINGS, TRAPS, VALVES AND ACCESSORIES REQUIRED FOR PROPER PLUMBING SYSTEM.
- ALL SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES, NATIONAL BUILDING CODE OF THE PHILIPPINES AND ITS IMPLEMENTING AND REGULATIONS.
- COORDINATE THE DRAWING WITH THE OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ARCHITECT AND/OR THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN HIS/HER DECISION SHALL BE FINAL.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
- PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERTED ELEVATION OF EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTORS.
- THE CONTRACTORS SHALL BE RESPONSIBLE FOR ALL REQUIRED FLOOR AND WALL OPENINGS.
- ALL SLOPE FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MINIMUM UNLESS OTHERWISE NOTED.
- SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

**LEGEND :**



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	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING MAIN CAMPUS	CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOPRENEURSHIP BUILDING MAIN CAMPUS	ARCH. HANNAH FAITH P. MORTA, UPD Director, UPD300	AS SHOWN	P-9	P-9
PRC REC. No. : PTR No. : Date : Place :	ENGR. NOEL M. TIANGA, JR. UPD300/PP02/PP03	LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	CHECKED BY:	APPROVED BY:	MERIAN P. CATAYAN-MANTILA, D. CESE UPD300/PP02/PP03	REV.:



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TO

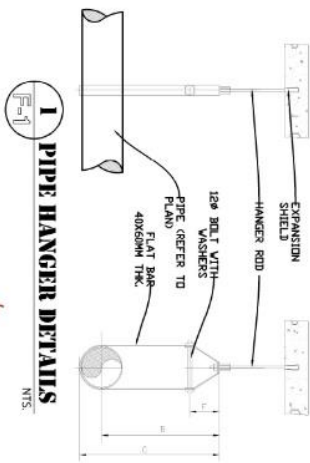
- GENERAL NOTES:**
1. ALL WORKS SHOULD BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODE NO. 13 & 20.
  2. ALL WORKS SHALL BE EXECUTED IN ACCORDANCE WITH ALL OTHER RELEVANT CODES AND STANDARDS.
  3. EXACT LOCATION OF THE SPRINKLER HEADS SHALL BE COORDINATED WITH ARCHITECTURAL, CEILING, LIGHTING AND SHALL BE SUBJECT TO ARCHITECT & ENGINEER APPROVAL.
  4. LOCATION OF DOWN PIPES FOR INSPECTORS TEST AND DOWN VALVES SHALL BE COORDINATED WITH THE PLUMBING CONTRACTOR.
  5. FIRE/JOCKEY PUMP, WATER FLOW SWITCHES, MONITOR SWITCHES ELECTRICAL CONNECTIONS SHALL BE DONE BY THE SPRINKLER CONTRACTOR UP TO THE CONTROL PANEL & SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR FOR POWER TAPPING.
  6. ALL PIPES SHALL BE IN MILLIMETERS UNLESS OTHERWISE NOTED.
  7. UNLESS OTHERWISE NOTED, ALL FITTINGS & CROSSINGS SHALL BE WELD JOINTS & ALL BRANCHINGS SHALL BE SCREWED JOINTS.
  8. PIPE STIFFERS SHALL BE PROVIDED FOR ALL PIPES PASSING THRU SLAG, WALLS AND BEAMS.
  9. MINIMUM PIPE SIZE FOR ALL SPRINKLER HEAD SHALL BE 25mm DIAMETER UNLESS OTHERWISE NOTED.
  10. STANDARD PIPE SIZE AND SPECIFICATION ARE THE FOLLOWING USE FOR FIRE PROTECTION ARE:
    - 200mm AND ABOVE - USE B1 PIPE SCHED. 80
    - 150mm AND BELOW - USE B1 PIPE SCHED. 40
    - 65mm AND BELOW - MECHANICAL GROOVE FITTING
    - 38mm AND BELOW - THREADED FITTING W/ALUMINUM BRONZE END

**LEGEND :**

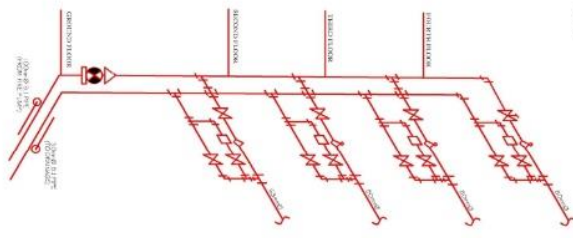
- FP FIRE PUMP
- JP JOCKEY PUMP
- WATER METER GONG
- PENDENT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD SIDE WALL SPRINKLER HEAD
- GATE VALVE
- CHECK VALVE
- WATER FLOW SWITCH
- LOW METER
- SIGHT GLASS
- SIAMSE TWIN
- FLUSHING CONNECTION
- PIPE HANGER
- RISER NIPPLE
- FIRE EXT
- FIRE EXTINGUISHER (1 Qlps.)
- VITUAIC COUPLING
- ALARM CHECK VALVE
- TEE
- ELBOW
- FIRE HOSE CABINET (INDOOR TYPE)
- OS & Y GATE VALVE
- FPC FIRE DEPARTMENT CONNECTION

TABLE OF DIMENSION

PIPE SIZE	DIMENSION IN MILLIMETER (MM)			
	BOO DIA.	B	C	F (MM)
50	110	140	22	
65/80	125	153	30	
100	165	240	50	
150	180	255	50	



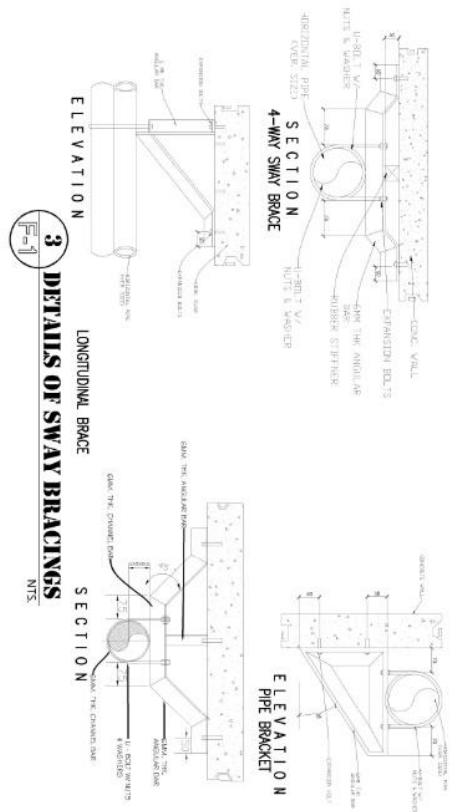
**2 SCHEMATIC PIPING LAYOUT OF FIRE PROTECTION**  
 NTS



SCHEDULE OF EQUIPMENT

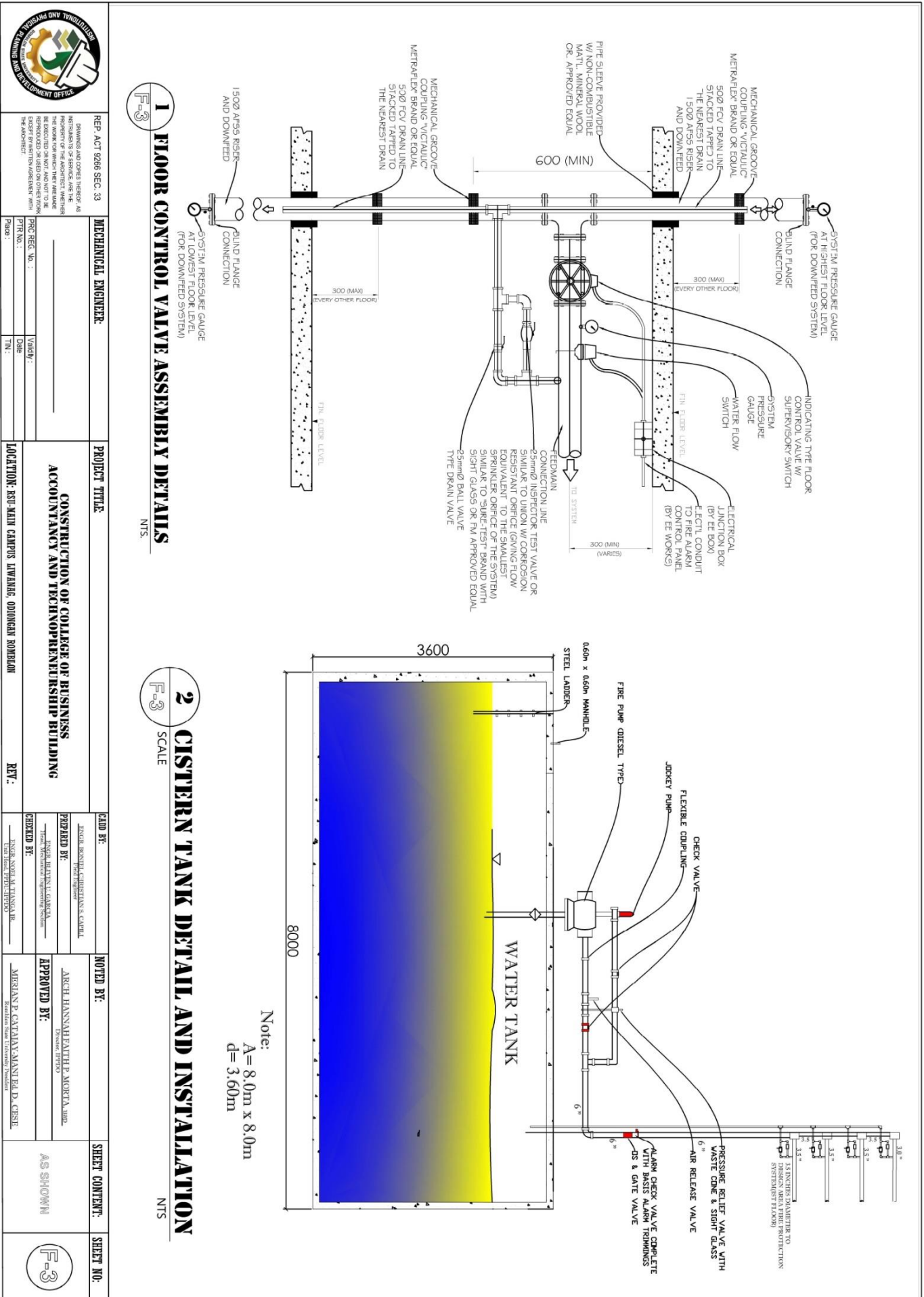
FIRE PUMP	DESIGNATION	QUANTITY	QUANTITY (Liters/gallon)	TYPE	PUMPING CAPACITY (liters/min)	RPM	MOTOR RATING		MOTOR RATING		REMARKS
							HP	kW(hp)	FT	PHASE	
FP		1	1,200(300)	SHAFT SIZE 50(200mm)	80(120)	2880	3.7(5)	230	THREE	60	UNIT SHALL BE BRAND NEW AND OF THE APPROVED TYPE. COMPLETE WITH STANDARD ACCESSORIES, READY FOR SERVICE.

JOCKEY PUMP	DESIGNATION	QUANTITY	QUANTITY (Liters/gallon)	TYPE	PUMPING CAPACITY (liters/min)	RPM	MOTOR RATING		MOTOR RATING		REMARKS
							HP	kW(hp)	FT	PHASE	
JP		1	37(850)	SHAFT SIZE 50(200mm)	2880	3.7(5)	230	THREE	60	UNIT SHALL BE BRAND NEW AND OF THE APPROVED TYPE. COMPLETE WITH STANDARD ACCESSORIES, READY FOR SERVICE.	



	REP. ACT 9296 SEC. 33 I hereby certify that I am duly licensed and registered as a Professional Engineer under the provisions of the Act, and I have read and approved the design and specifications herein and I am not aware of any fraud or deception in the same.	<b>MECHANICAL ENGINEER:</b> _____ Date: _____ Place: _____
	PROJECT TITLE: <b>CONSTRUCTION OF COLLEGE OF BUSINESS ACCOMMODANCY AND TECHNO-RENEWAL BUILDING</b>	LOCATION: RSU-MAIN CAMPUS LIWANAG ODIONGAN ROMBLON
PREPARED BY: _____ CHECKED BY: _____ APPROVED BY: _____	NOTED BY: _____ SHEET CONTENT: _____ SHEET NO.: _____	REV. _____ AS SHOWN 





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	MECHANICAL ENGINEER:	BGC SEC. NO.: PTR NO.: PLACE:	VENDOR: DATE: T.N.:	CAD BY: CHECKED BY: DRAWN BY:	NOTED BY: APPROVED BY:	SHEET CONTENT: AS SHOWN





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<b>PREPARED BY:</b> JENIE J. BONDIA, CHRISTIANE S. CABREL Project Engineer	<b>NOTED BY:</b> ARCH. HANNAH FAITH P. MORTIA, AIA Division UPVMO	<b>1 GROUND FLOOR FIRE PROTECTION PLAN</b> SCALE: 1:200 FRONT ELEVATION FACING COLLEGE OF EDUCATION			
<b>APPROVED BY:</b> MERIANE CANTALAY-MANUEL D. CISE Division Head, University Division	<b>SHEET CONTENT:</b> AS SHOWN	<p style="text-align: center;">PART OF THE BUILDING TO BE CONSTRUCTED</p> <p style="text-align: center;">PART OF THE BUILDING TO BE CONSTRUCTED</p>			
 <b>ROMBLON STATE UNIVERSITY</b> PHILIPPINES	<b>SHEET NO.:</b>				



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**I SECOND FLOOR FIRE PROTECTION PLAN**  
 SCALE 1:200

PART OF THE BUILDING TO BE CONSTRUCTED

FRONT ELEVATION FACING COLLEGE OF EDUCATION



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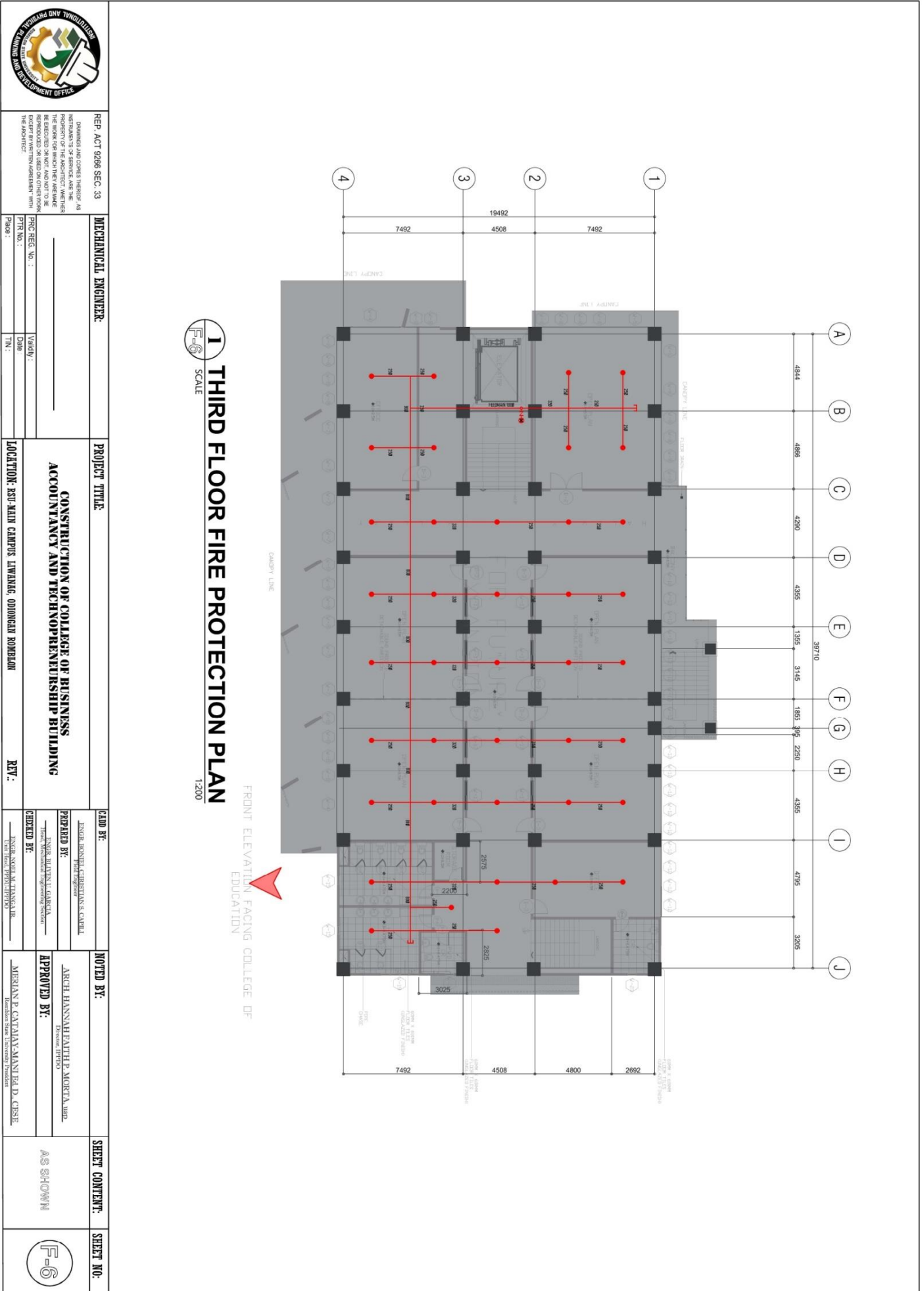
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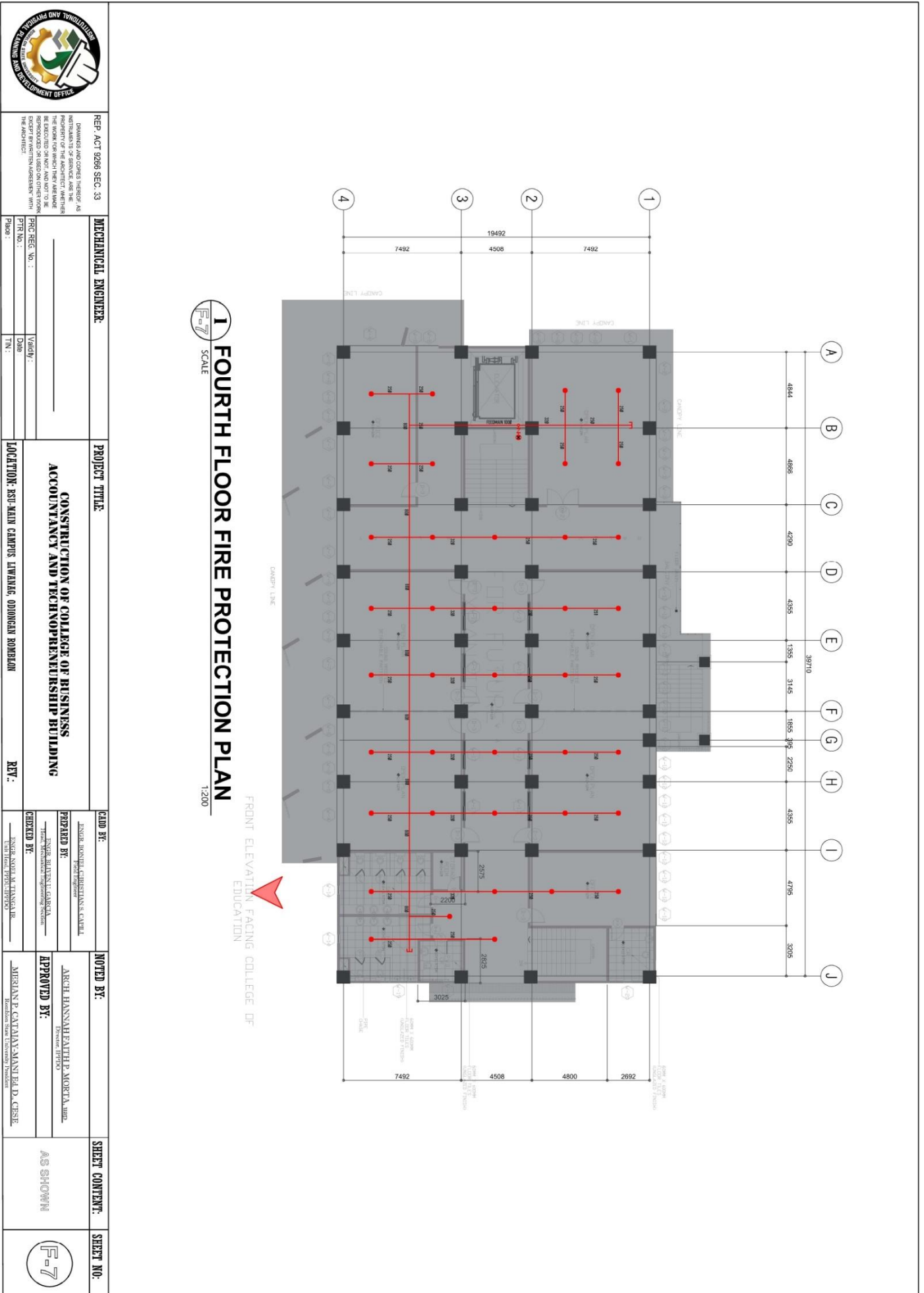
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**MECHANICAL ENGINEER:**  
PRC REG. No.:  
PTR No.:  
Pino: TN:

**PROJECT TITLE:**  
**CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNOLEADERSHIP BUILDING**  
LOCATION: RSU-MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON

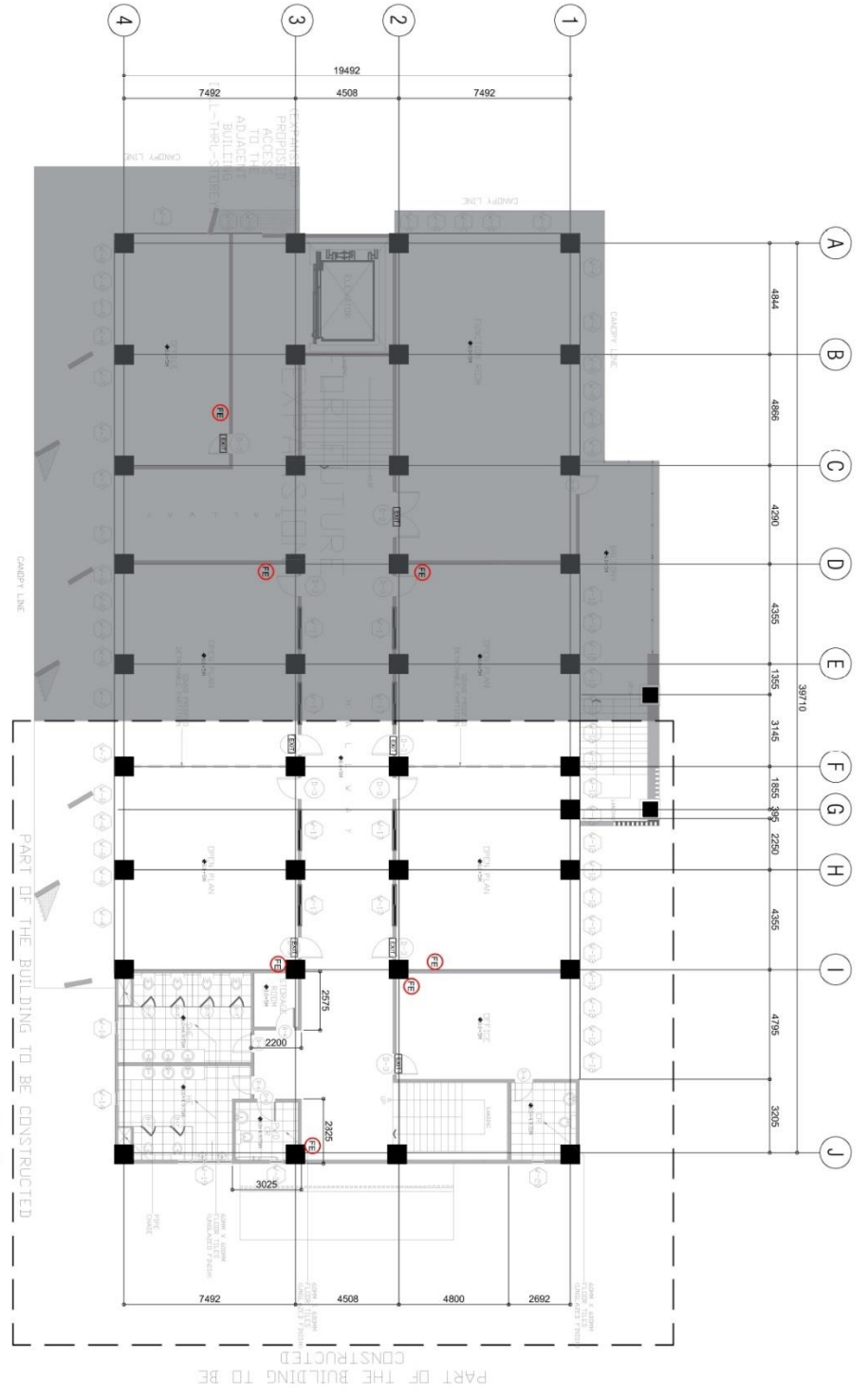
**CLD BY:** ENGR. RONNIE CHRISTIAN S. CAVIL  
**PREPARED BY:** ENGR. JAYNET L. GARCIA  
**CHECKED BY:** ENGR. NOLAN M. TANGA, JR.

**NOTED BY:** ARCH. HANNAH FAITH P. MORTA, UPD  
**APPROVED BY:** MERLAN P. CATANAMAN, D. CESE  
Romblon State University President

**SHEET CONTENT:**  
AS SHOWN

**SHEET NO.:**  
F-9

**SECOND FLOOR FIRE EXTINGUISHER/FIRE  
EXIT LAYOUT PLAN**  
SCALE: 1:200





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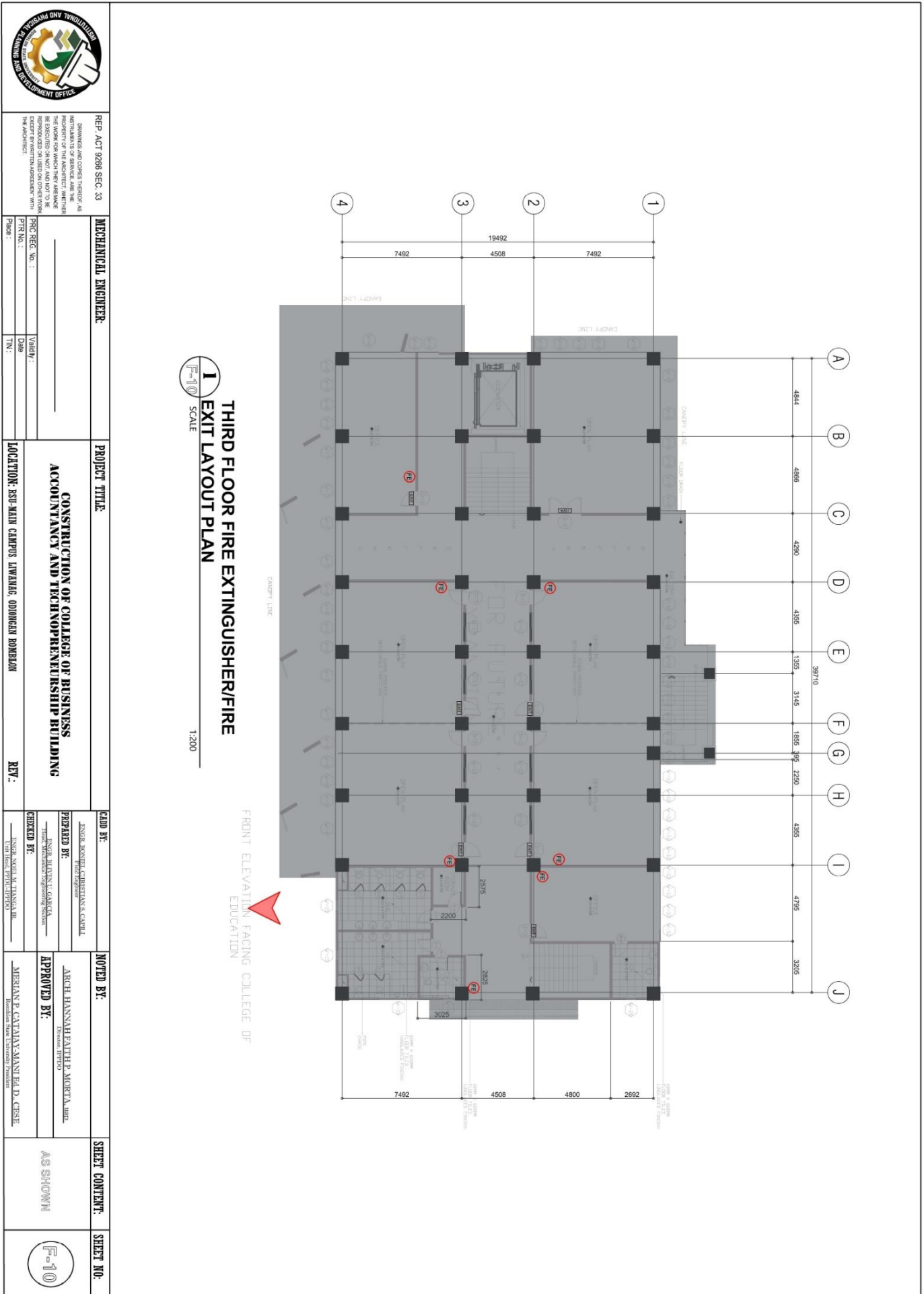
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**I**  
**EXIT LAYOUT PLAN**  
 SCALE 1:200

	REP. ACT 1086 SEC. 33 DRAWINGS AND COPIES THEREOF AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ENGINEER AND SHALL BE REPRODUCED OR REPRODUCED FROM THE ARCHITECT'S OFFICE WITHOUT HIS WRITTEN PERMISSION.	<b>MECHANICAL ENGINEER:</b> PRG. REG. NO.: PRT. NO.: DATE: T.M.:	<b>PROJECT TITLE:</b> <b>CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNO-REINFORCEMENT BUILDING</b>	<b>LOCATION:</b> RSU-MAIN CAMPUS LIWANAG, ODIONGAN ROMBLON	<b>REV.:</b>
	<b>NOTED BY:</b> ENGR. RONALD CHRISTINA S. CARIL PREPARED BY: ENGR. HANNAH FAITH E. MORETA, JR. APPROVED BY: MERRIANE CATALAN-MANI, Ed.D., CESH Romblon State University President	<b>SHEET CONTENT:</b> AS SHOWN	<b>SHEET NO.:</b> F-10		



# ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

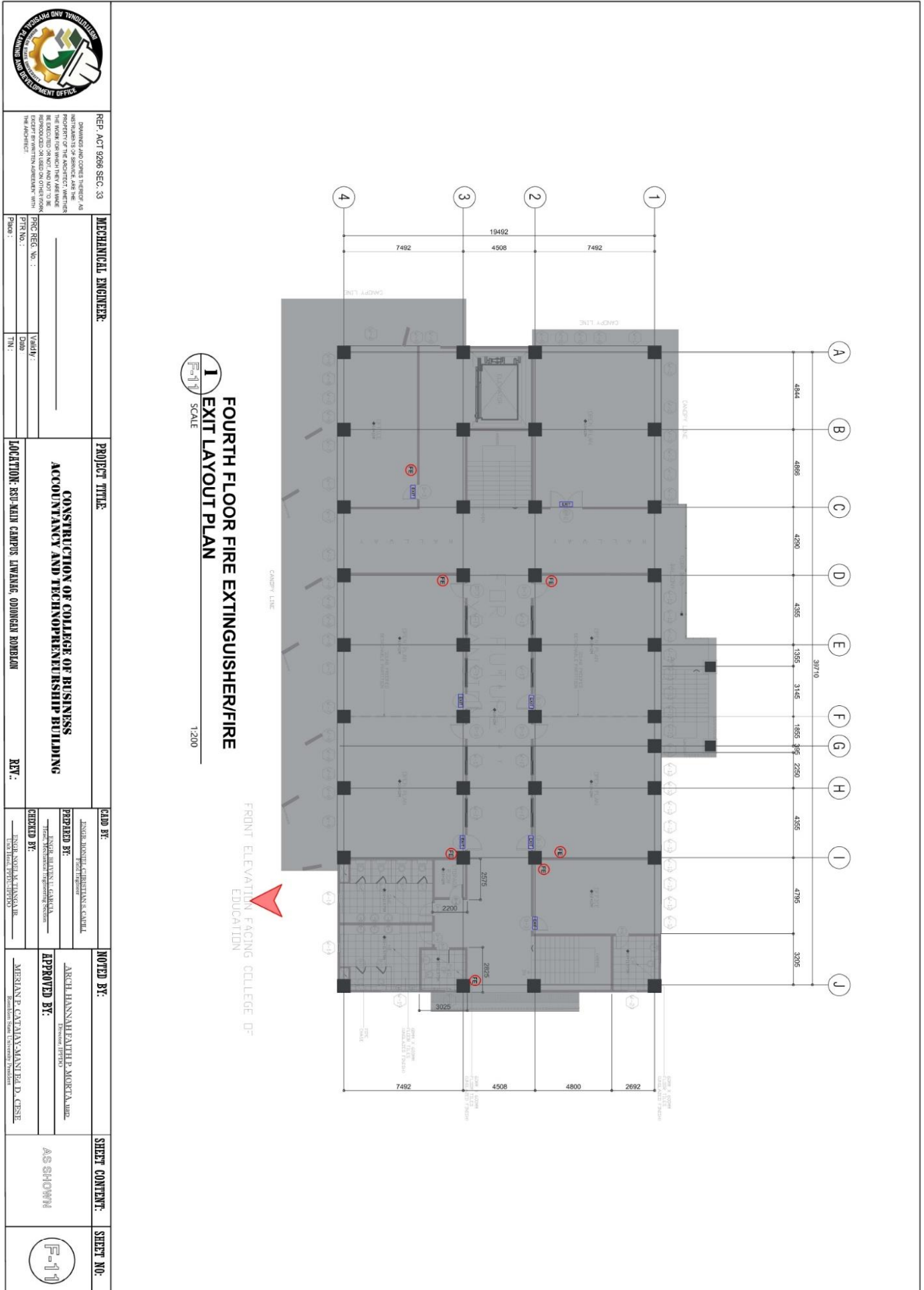
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## SCHEDULE OF EQUIPMENT

GROUND FLOOR			
INDOOR UNIT		OUTDOOR UNIT	
EQUIP. NO.	COOLING CAPACITY (RTU/Hr.)	EQUIP. NO.	COOLING CAPACITY (RTU/Hr.)
ACI1	12000	OU1	12000
ACI2	18000	OU2	18000
ACI3	18000		

ACU - AIR-CONDITIONING UNITS  
 OU - OUTDOOR UNITS

SECOND FLOOR			
INDOOR UNIT		OUTDOOR UNIT	
EQUIP. NO.	COOLING CAPACITY (RTU/Hr.)	EQUIP. NO.	COOLING CAPACITY (RTU/Hr.)
ACI4	12000	OU3	12000
ACI5	18000	OU4	18000
ACI6	18000		
ACI7	18000		
ACI8	18000		

ACU - AIR-CONDITIONING UNITS  
 OU - OUTDOOR UNITS

THIRD FLOOR			
INDOOR UNIT		OUTDOOR UNIT	
EQUIP. NO.	COOLING CAPACITY (RTU/Hr.)	EQUIP. NO.	COOLING CAPACITY (RTU/Hr.)
ACI9	12000	OU6	12000
ACI10	18000	OU7	18000
ACI11	18000		
ACI12	18000		
ACI13	18000		

ACU - AIR-CONDITIONING UNITS  
 OU - OUTDOOR UNITS

FOURTH FLOOR			
INDOOR UNIT		OUTDOOR UNIT	
EQUIP. NO.	COOLING CAPACITY (RTU/Hr.)	EQUIP. NO.	COOLING CAPACITY (RTU/Hr.)
ACI14	12000	OU9	12000
ACI15	18000	OU10	18000
ACI16	18000		
ACI17	18000		
ACI18	18000		

ACU - AIR-CONDITIONING UNITS  
 OU - OUTDOOR UNITS

- GENERAL NOTES:
1. PROVIDE ALL EQUIPMENT & MATERIALS REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWING.
  2. CONTRACT CONSTRUCTION DRAWINGS FOR ARE DIAGRAMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
  3. INSTALL ALL EQUIPMENT AND APPARATUS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS AND APPLICABLE CODES AND REGULATIONS.
  4. COORDINATE CONSTRUCTION OF ALL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
  5. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWINGS.
  6. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS AND DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
  7. LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF OPENING SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

- LEGEND :
- AIR-CONDITION UNIT
  - ACU#
  - OUTDOOR UNIT
  - OU#

	REP. ACT 8266 SEC. 33 ENGINEERING AND CONSTRUCTION AS REGISTERED PROFESSIONAL ENGINEER AS REPRESENTATIVE OF THE ARCHITECT WHETHER THE WORK FOR WHICH THE FEE IS PAID IS OF A NATURE THAT REQUIRES THE SERVICES OF AN ENGINEER AND/OR OTHER REGISTERED PROFESSIONAL ENGINEER EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT	MECHANICAL ENGINEER NAME: _____ PRC REG. NO.: _____ PTR No.: _____ Date: _____ TIN: _____	PROJECT TITLE: <b>CONSTRUCTION OF COLLEGE OF BUSINESS          ACCOUNTANCY AND TECHNO-ENTREPRENEURSHIP BUILDING</b>	LOCATION: RSU-MAIN CAMPUS LIWANAG, ODIONGAN ROMBLON
	PREPARED BY: ARCH. HANNAH LEATHER P. MORTALAB REGISTERED ARCHITECT REGISTERED PROFESSIONAL ENGINEER	NOTED BY: ARCH. HANNAH LEATHER P. MORTALAB REGISTERED ARCHITECT REGISTERED PROFESSIONAL ENGINEER	SHEET CONTENT: <b>AS SHOWN</b>	SHEET NO.: <b>(M-1)</b>



# ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

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	REP. ACT 9286 SEC. 33 DRAWINGS AND CONTENT THEREOF, AS PARTS OF THE BIDDING DOCUMENTS, ARE THE PROPERTY OF THE ENGINEER. THEY ARE TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR USED ON OTHER WORK WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.	<b>MECHANICAL ENGINEER:</b>  ENG. SEC. NO. : PTR. NO. : Firm:	<b>PROJECT TITLE:</b> <p style="text-align: center;"><b>CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNO-ENTREPRENEURSHIP BUILDING</b></p> LOCATION: RSU-MAIN CAMPUS LIWANAG ODIONGAN ROMBLON	<b>REV.:</b>  CAD BY: ENGR. RONNIE A. CRISTIAN S. CADEL PREPARED BY: ENGR. RAJANAL GABRICA CHECKED BY: ENGR. SOFIA M. TINAGAR	<b>NOTED BY:</b>  ARCH. HANNAH FAITH P. MORTA, I.D. APPROVED BY: MERIANE P. CATAVA-AMANI ED. D. CESE	<b>SHEET CONTENT:</b> AS SHOWN	<b>SHEET NO.:</b> 
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**1 GROUND FLOOR ACUMV PLAN**  
SCALE 1:200

FRONT ELEVATION FACING COLLEGE OF EDUCATION

PART OF THE BUILDING TO BE CONSTRUCTED

PART OF THE BUILDING TO BE CONSTRUCTED



# ROMBLON STATE UNIVERSITY BIDS AND AWARDS COMMITTEE

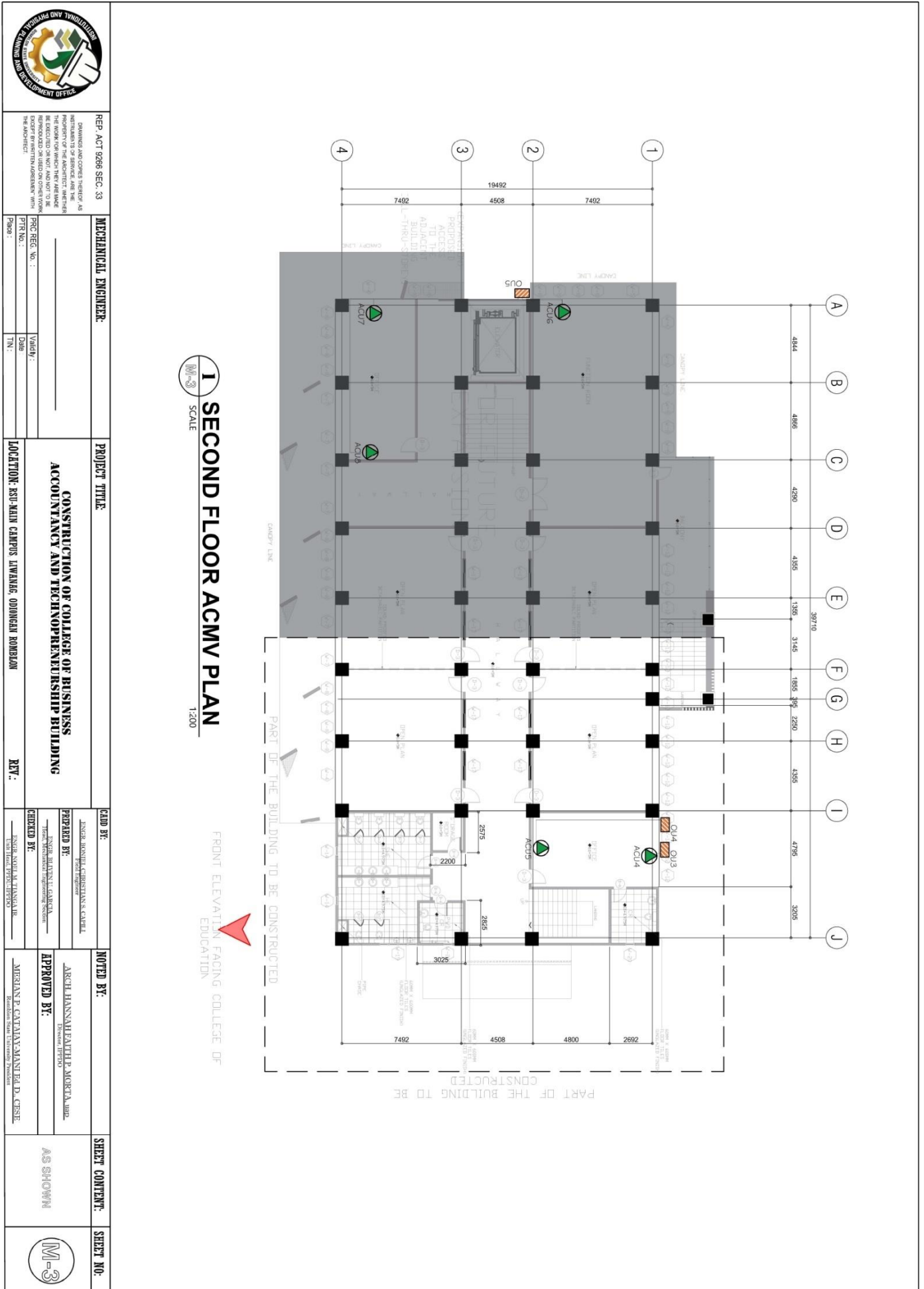
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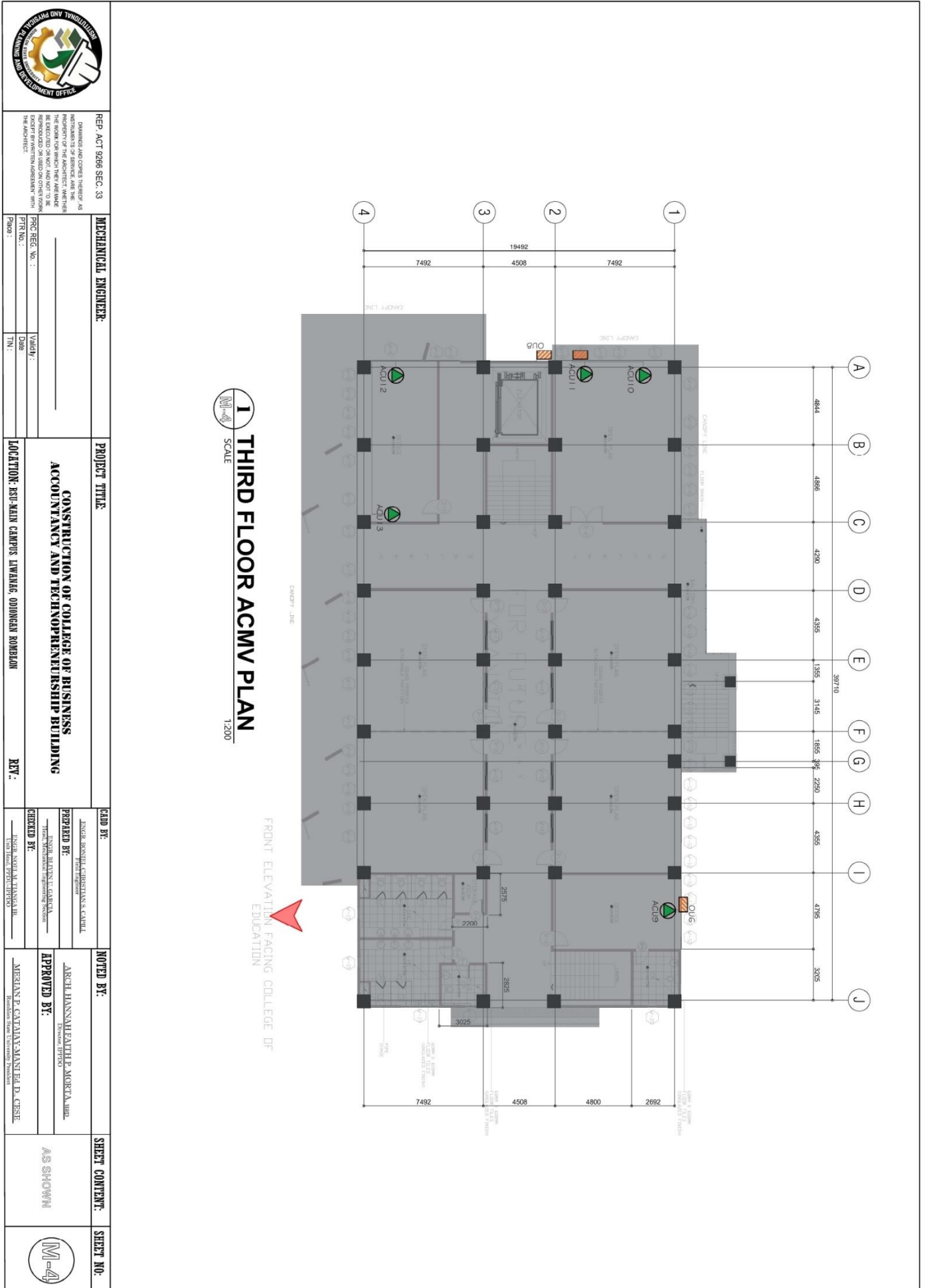
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 <b>DEPARTMENT OF PLANNING AND DEVELOPMENT OFFICE</b>	REP. ACT 9298 SEC. 33 DRAWINGS AND CONTENTS HEREOF, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF THE BIDS AND AWARDS COMMITTEE. THEY ARE TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMMITTEE.	<b>MECHANICAL ENGINEER:</b> REG. REG. NO.: PTR. NO.: Validity: Date: / / TIN:	<b>PROJECT TITLE:</b> <p style="text-align: center;"><b>CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNO-REINFORCEMENT BUILDING</b></p> <b>LOCATION:</b> RSU-MAIN CAMPUS LIWANAG, ODIONGAN ROMBLON	<b>NOTED BY:</b> JENIEB BERNARDO CHRISTIAN S. CABALLERO ARCHT. HANNAH EATH P. MORTA, JR. APPROVED BY: MARIAN P. CATANAY-MANUEL D. CESE	<b>SHEET CONTENT:</b> AS SHOWN	<b>SHEET NO.:</b> 
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**I FOURTH FLOOR ACMV PLAN**  
 SCALE 1:200

FRONT ELEVATION FACING COLLEGE OF EDUCATION



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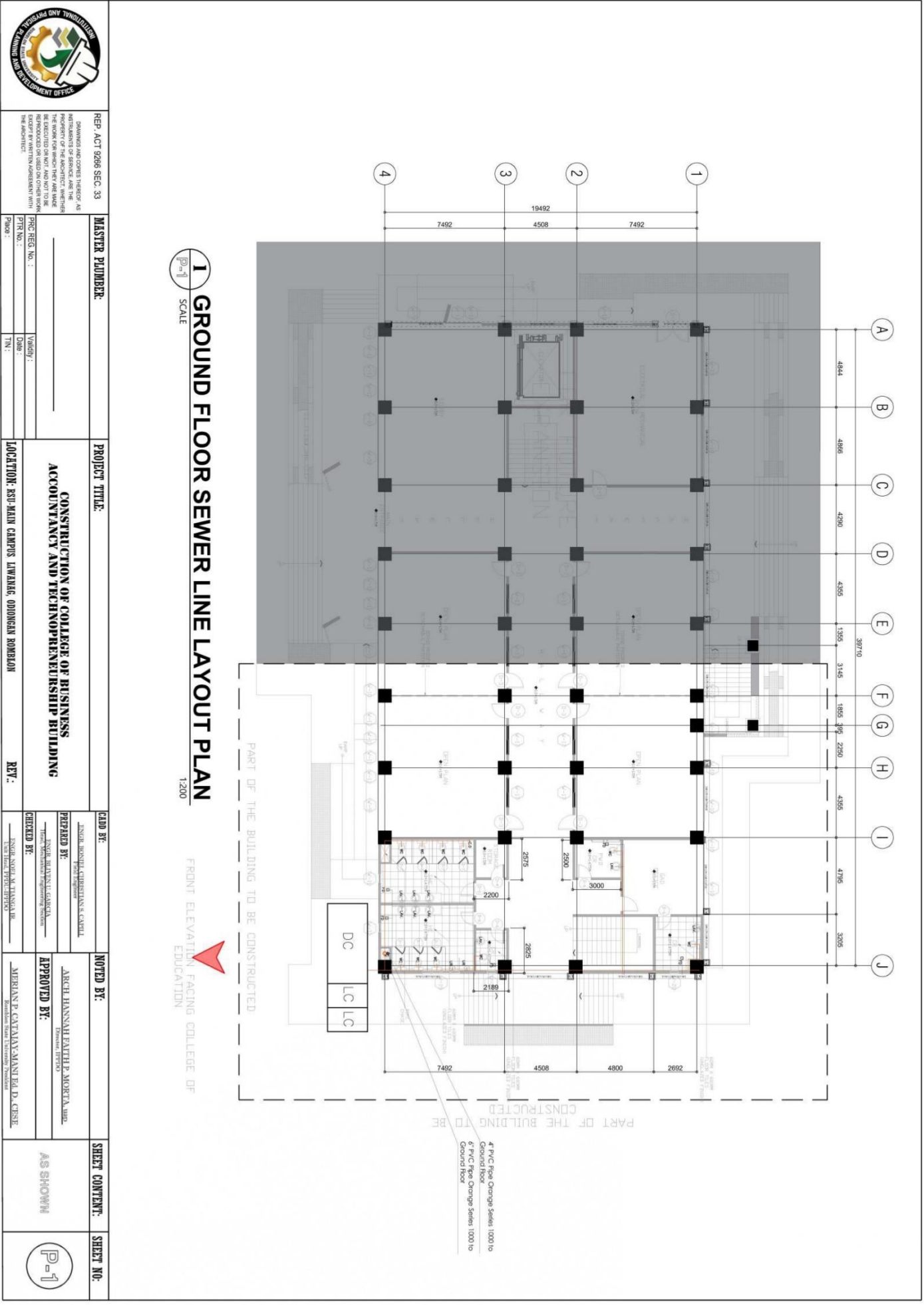
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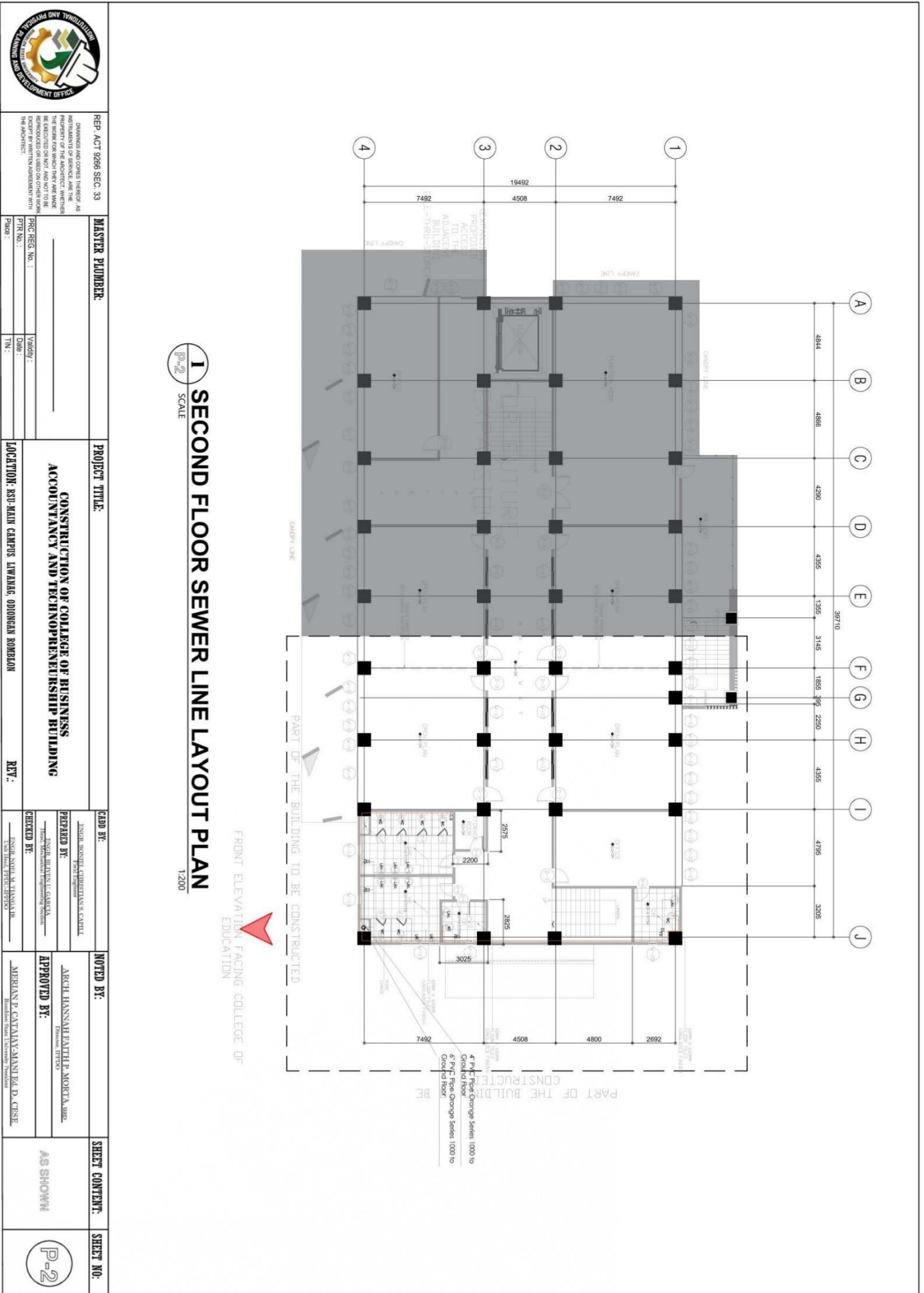
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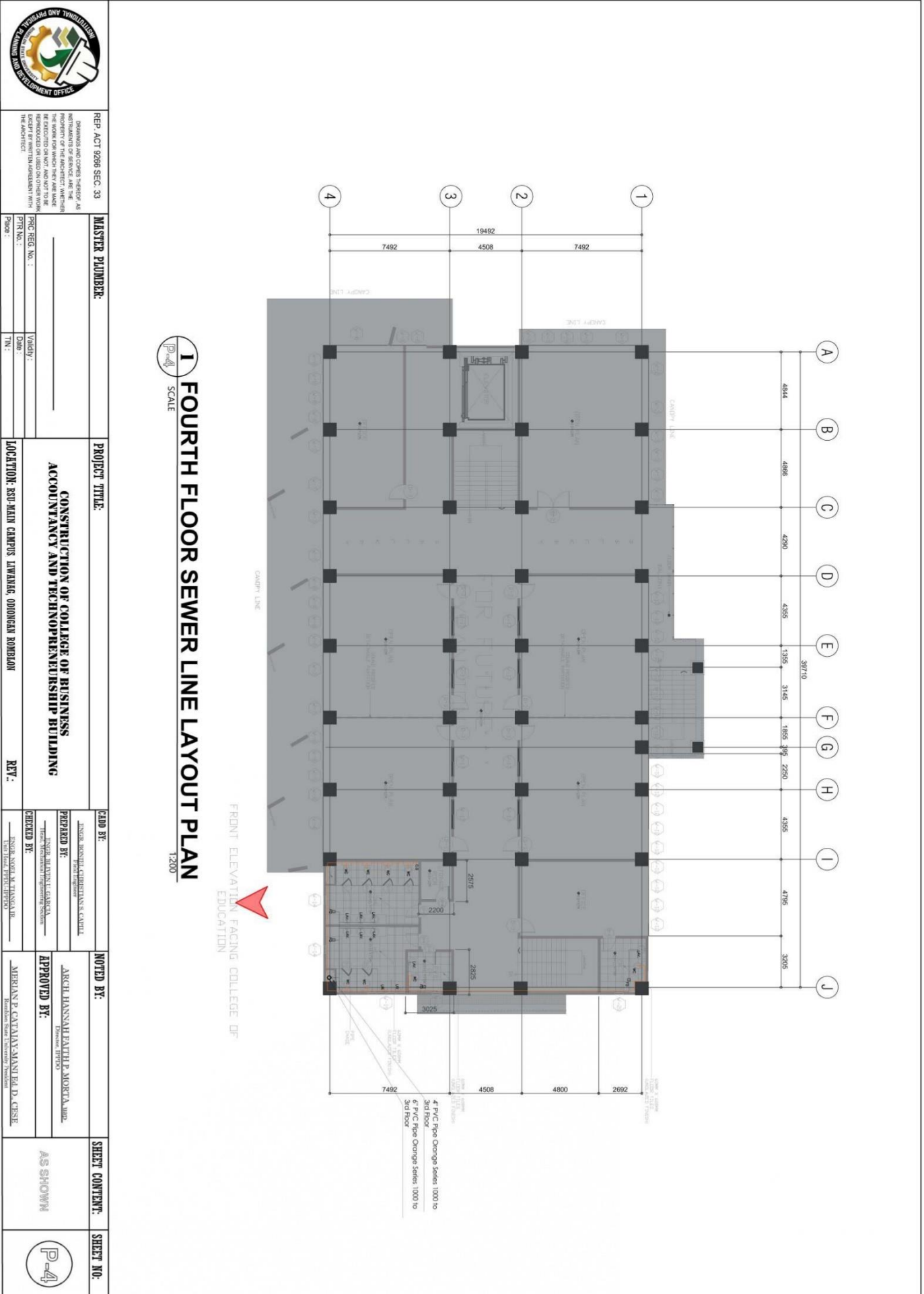
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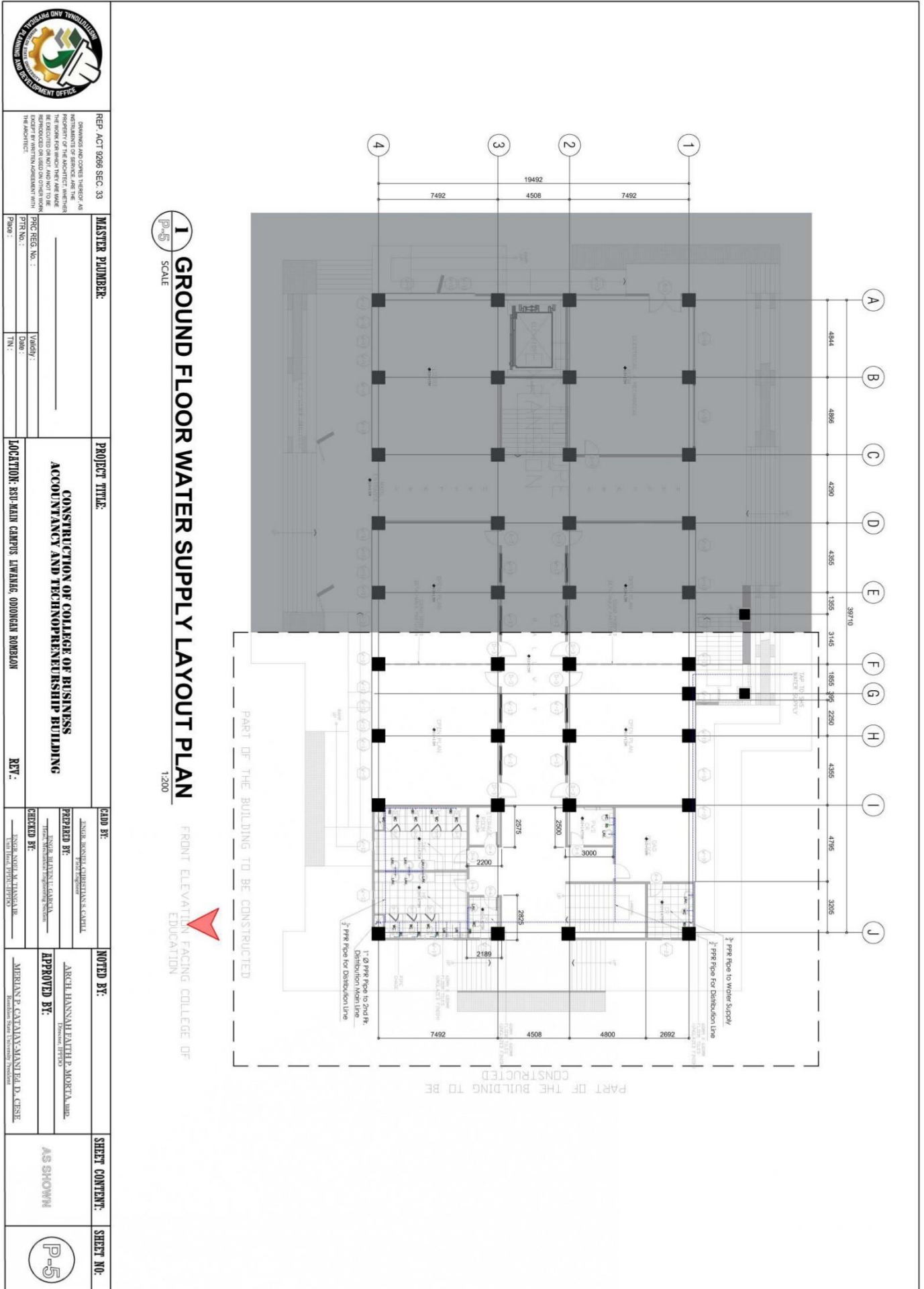
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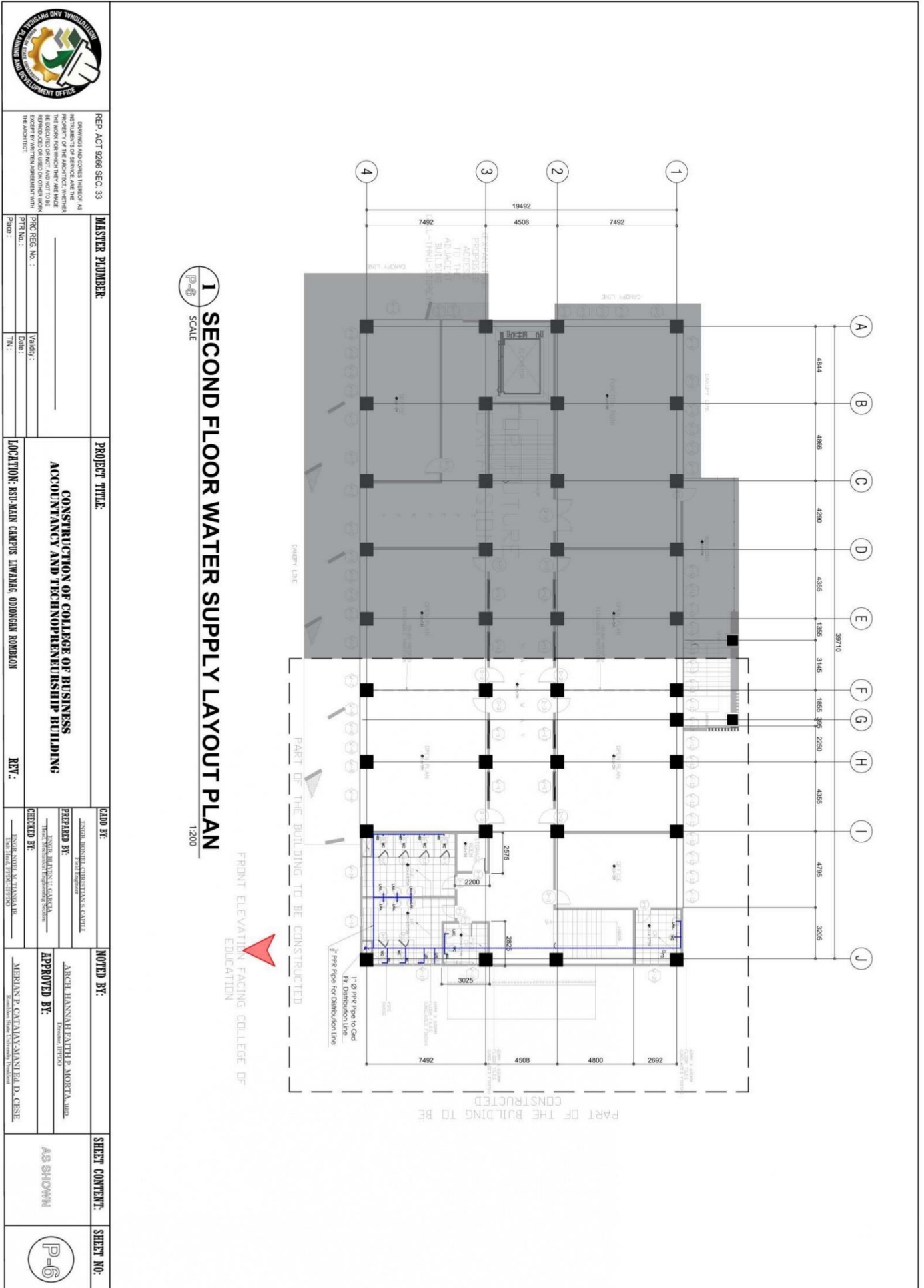
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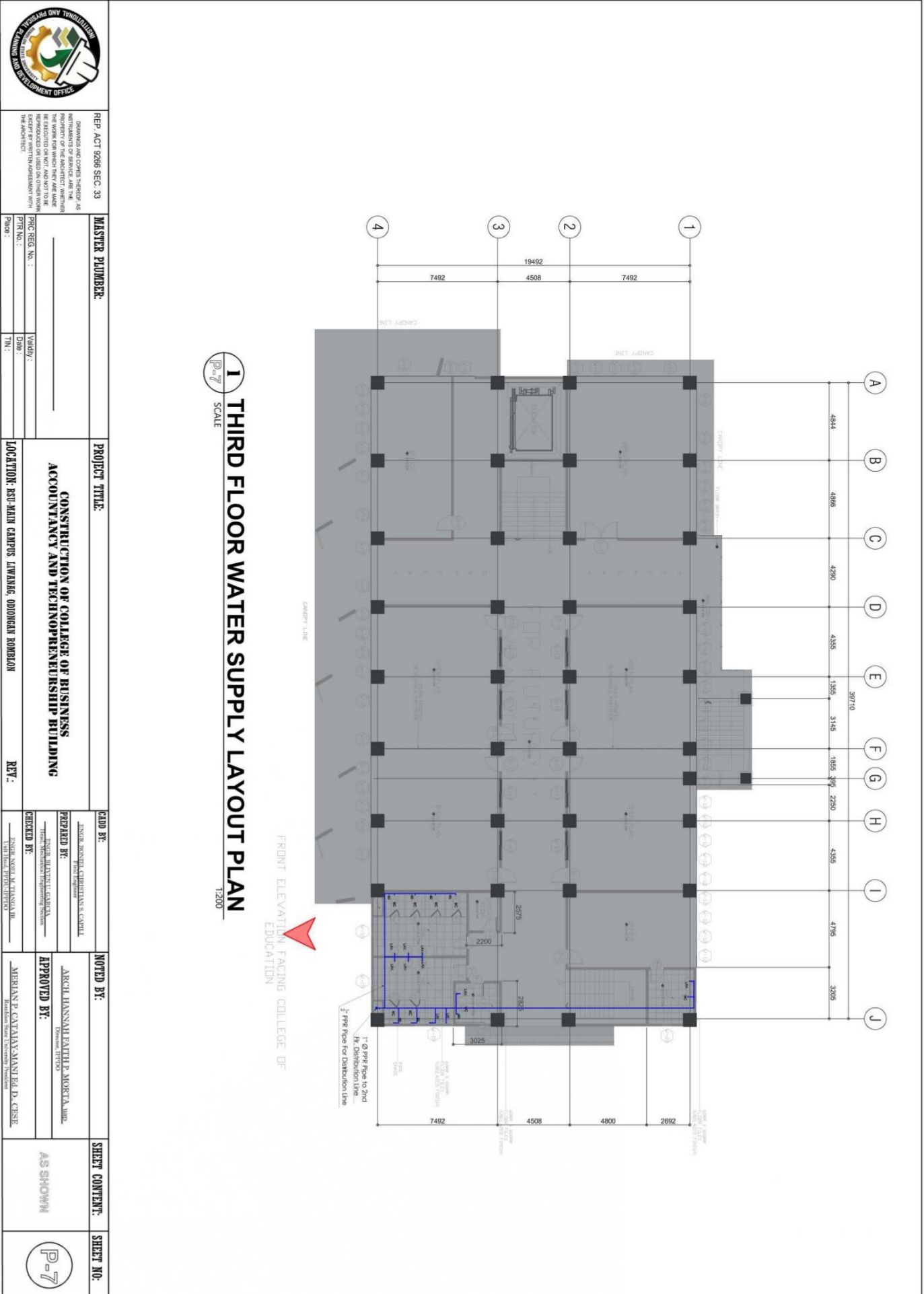
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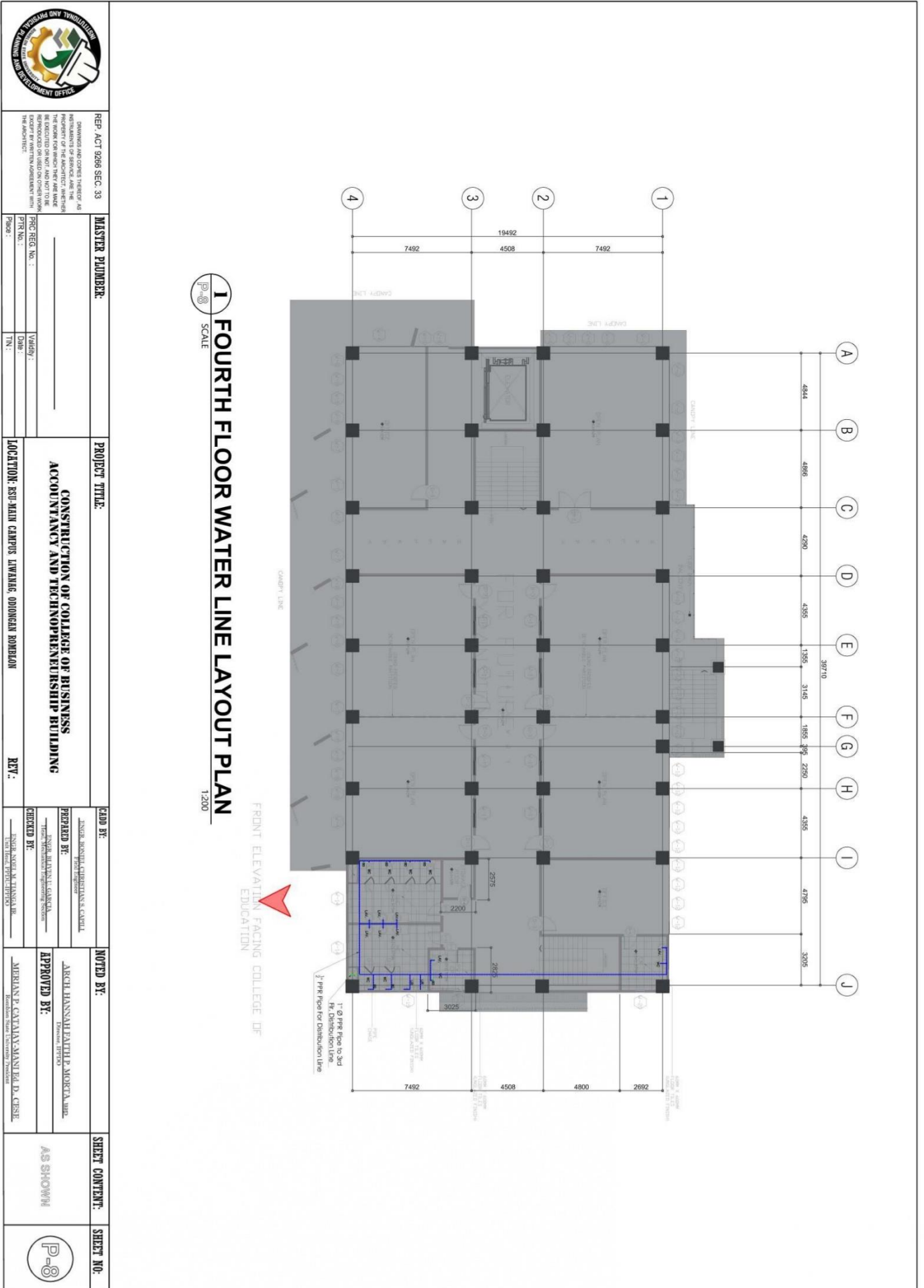
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 <b>BIDS AND AWARDS COMMITTEE</b>	<b>REPUBLIC ACT 9298 SEC. 33</b> <small>SHOWNAS AND CONVEYED HEREBY AS EVIDENCE OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETION OF THE PROJECT.</small>	<b>MASTER PLUMBER</b>	<b>PROJECT TITLE:</b> <b>CONSTRUCTION OF COLLEGE OF BUSINESS ACCOUNTANCY AND TECHNO-ENTREPRENEURSHIP BUILDING</b>	<b>LOCATION:</b> RSU MAIN CAMPUS, LIWANAG, ODIONGAN ROMBLON	<b>REV.:</b>
<b>PREPARED BY:</b> <small>ENGR. ARCEL M. ALIBERTAN &amp; CO. INC.</small>	<b>NOTED BY:</b> <small>ARCEL HANNAH FAITH L. MORETA, MBA.</small>	<b>APPROVED BY:</b> <small>MEHRAN P. CALIYANAN, M.S.T., D. CESE.</small>	<b>SHEET CONTENT:</b> AS SHOWN	<b>SHEET NO.:</b> 	

**LEGEND :**

- 4" PVC TEE CONNECTION
- LAVATORY
- WATER CLOSET
- 4" 60° PVC CONNECTION
- WATER LINE
- 4" PVC WYE CONNECT
- FLOOR DRAIN
- SEPTIC VAULT
- CLEAN OUT
- SHOWER HEAD AND WATER FAUCET

**SPECIFICATIONS :**

1. ALL HORIZONTAL PIPINGS SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT UNIFORM INTERVAL NOT LESS THAN 2% AND SHALL BE SUPPORTED OR ANCHORED AT INTERVAL NOT TO EXCEED 10FT.
2. ALL PIPES PASSING THRU OR UNDER WALLS AND DRIVEWAYS SHALL BE PROPERLY PROTECTED AGAINST BREAKAGE.
3. WORKMANSHIP SHALL BE OF SUCH CHARACTER AS TO FULLY SECURE THE RESULTS SOUGHT IN ALL PROVISION OF THE NATIONAL PLUMBING CODE INCLUDING THE FINISHING 5 OF ALL FITTINGS, TRAPS, VALVES AND ACCESSORIES REQUIRED FOR PROPER PLUMBING SYSTEM.
4. ALL SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES, NATIONAL BUILDING CODE OF THE PHILIPPINES AND ITS IMPLEMENTING AND REGULATIONS.
5. COORDINATE THE DRAWING WITH THE OTHER RELATED DRAWINGS AND SPECIFICATIONS, THE ARCHITECT AND/OR THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN HIGHER DECISION SHALL BE FINAL.
6. ALL PIPES SHALL BE INSTALLED AS INDICATED ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
7. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERTED ELEVATION OF EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTORS.
8. THE CONTRACTORS SHALL BE RESPONSIBLE FOR ALL REQUIRED FLOOR AND WALL OPENINGS.
9. ALL SLOPE FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MINIMUM UNLESS OTHERWISE NOTED.
10. SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

**1**

**PLAN OF SEPTIC VAULT**

SCALE: 1/8" = 1'-0"

**WALL HUNG TOILET TYPICAL INSTALLATION**

Please be advised that this bid bulletin is issued to amend the Fire Protection Plan, Mechanical Plan, and Plumbing Plan in all attached/associated documents. This shall be an integral part of the Bid Documents.

For information and guidance of all concerned.

**ATTY. GLENN NIÑO M. SARTILLO**  
 BAC Chairperson