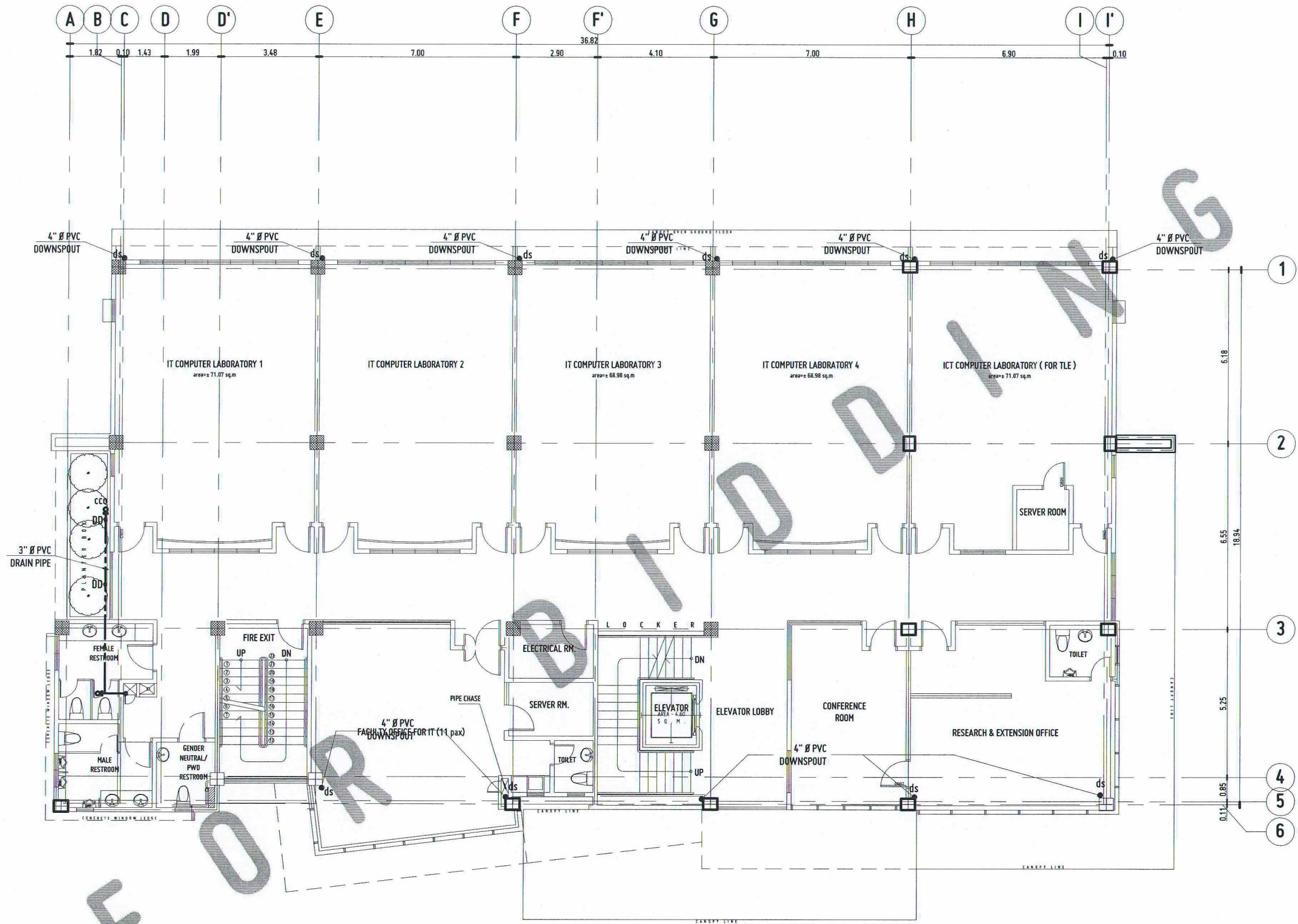




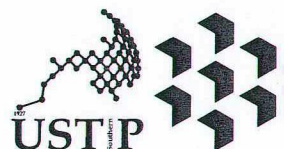
STORM DRAIN LAYOUT PLAN

SECOND FLOOR



SCALE:

1:150 MTS



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UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT
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TELEPHONE: (086222) 72-60-65 / (086) 856-1738 / 856-1739 | TELE FAX (086) 856-4096
WEBSITE: www.ustp.edu.ph

MASTER PLUMBER/SANITARY ENGINEER		PROJECT
PRC NO.	PTR NO.	ESTABLISHMENT OF THREE-STOREY SMART COMPUTING ACADEMIC BUILDING, PHASE 1, OROQUIETA CAMPUS
DATE	LOCATION	USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
TIN NO.	PLACE	OWNER: UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING & FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
DR. GLOMER L. CLARIN
CAMPUS DIRECTOR, USTP OROQUIETA

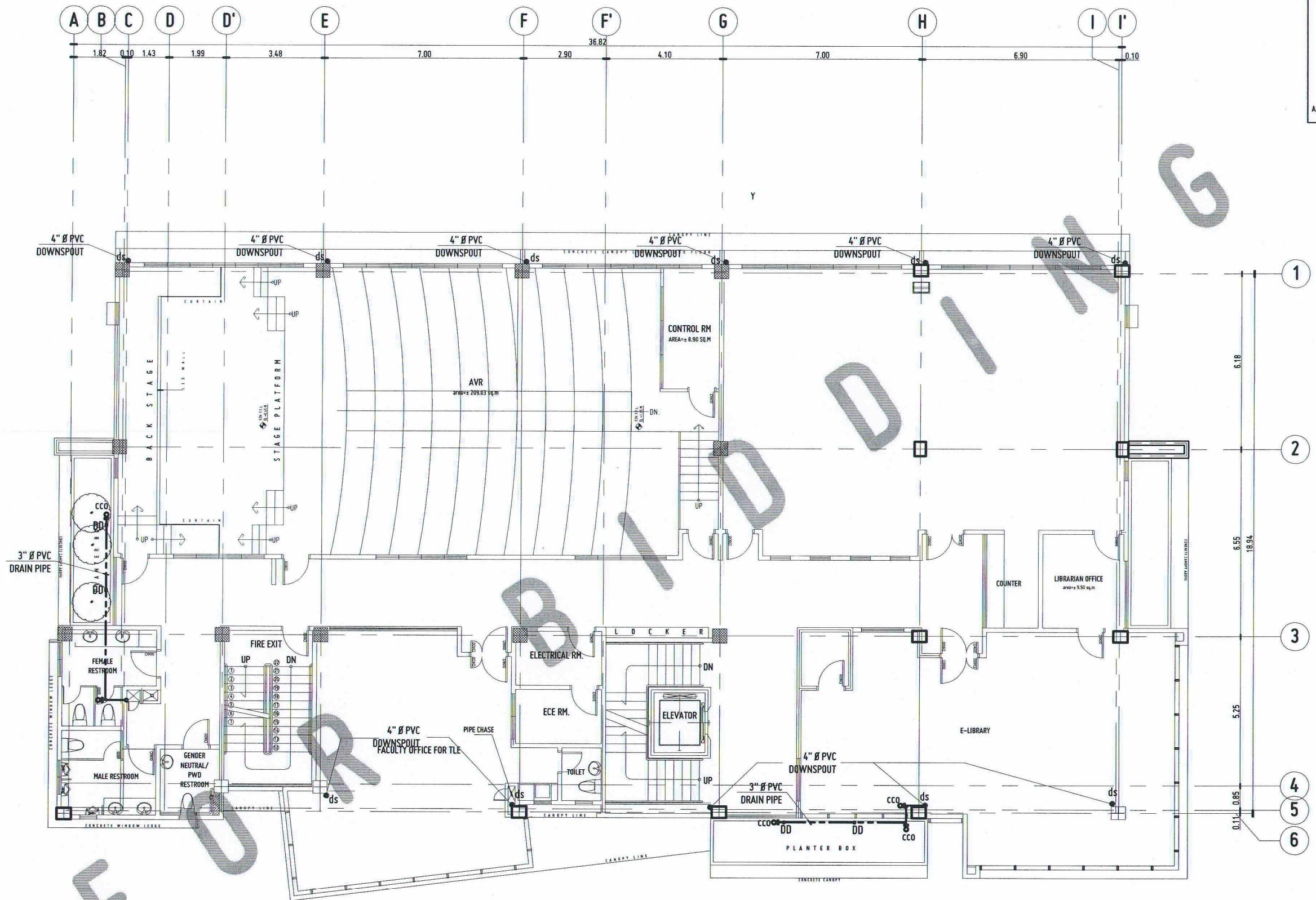
RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE, DPA
VICE PRESIDENT FOR ADMINISTRATION AND LEGAL AFFAIRS

APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
STORM DRAIN LAYOUT PLAN:
-SECOND FLOOR

DRAWN BY:
DATE DRAWN:
FNT:

P12

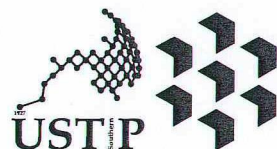


STORM DRAIN LAYOUT PLAN

THIRD FLOOR



SCALE: 1:150 MTS



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MASTER PLUMBER/SANITARY ENGINEER		PROJECT
PRC NO.	PTR NO.	ESTABLISHMENT OF THREE-STOREY SMART COMPUTING ACADEMIC BUILDING, PHASE 1, OROQUIETA CAMPUS
DATE	DATE	LOCATION
PLACE	PLACE	USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
TIN NO.	TIN NO.	OWNER
		UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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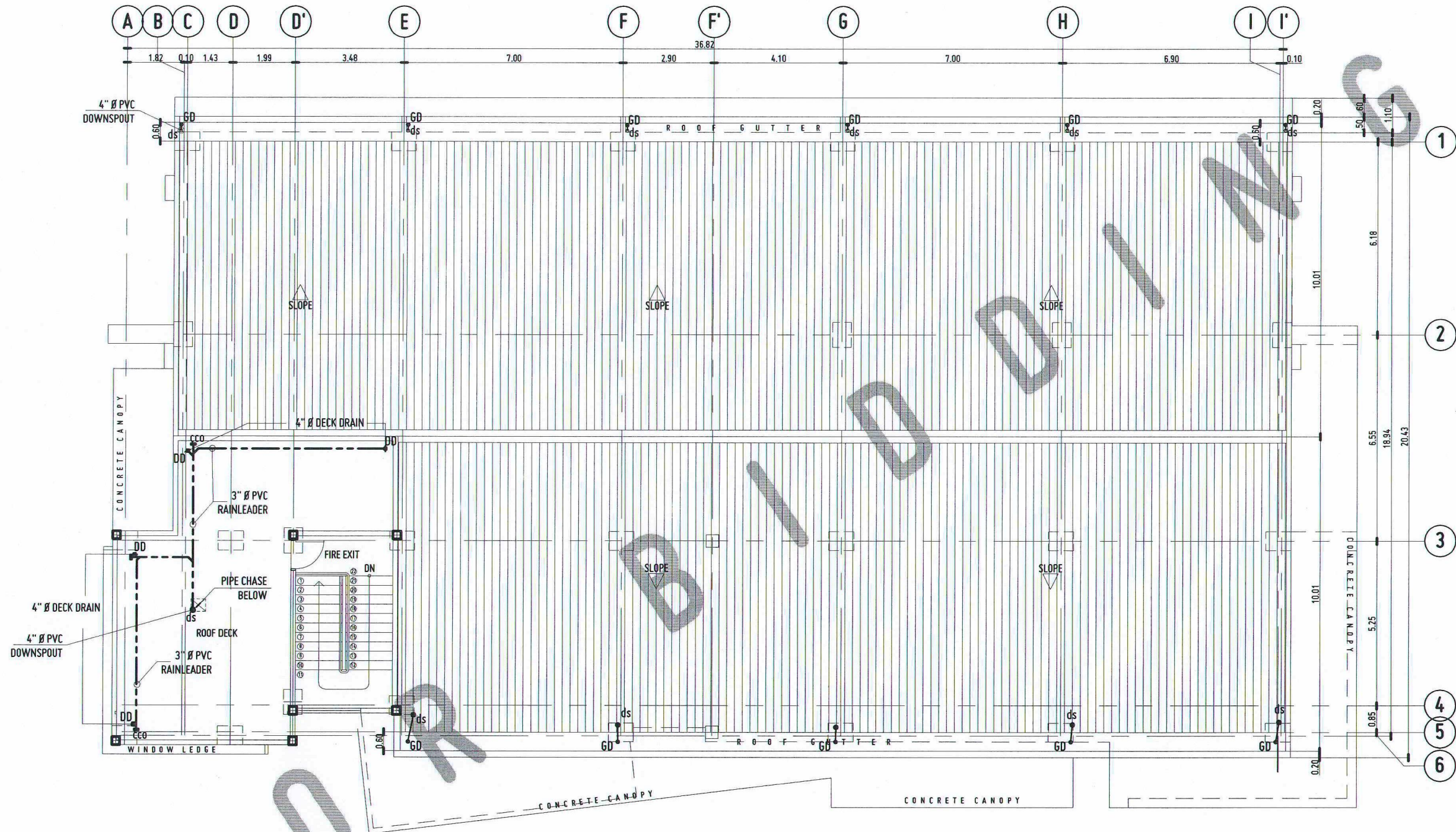
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SHEET CONTENTS:
STORM DRAIN LAYOUT PLAN:
-THIRD FLOOR

DRAWN BY:
DATE DRAWN:
FNT:

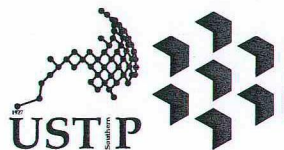
P13



STORM DRAIN LAYOUT PLAN

ROOF DECK

SCALE: 1:150 MTS



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MASTER PLUMBER/SANITARY ENGINEER		PROJECT
PRC NO.	PTR NO.	LOCATION
DATE		OWNER
PLACE		

ESTABLISHMENT OF
THREE-STOREY SMART COMPUTING ACADEMIC
BUILDING, PHASE 1, OROQUIETA CAMPUS
USTP OROQUIETA CAMPUS, MISAMIS OCCIDENTAL
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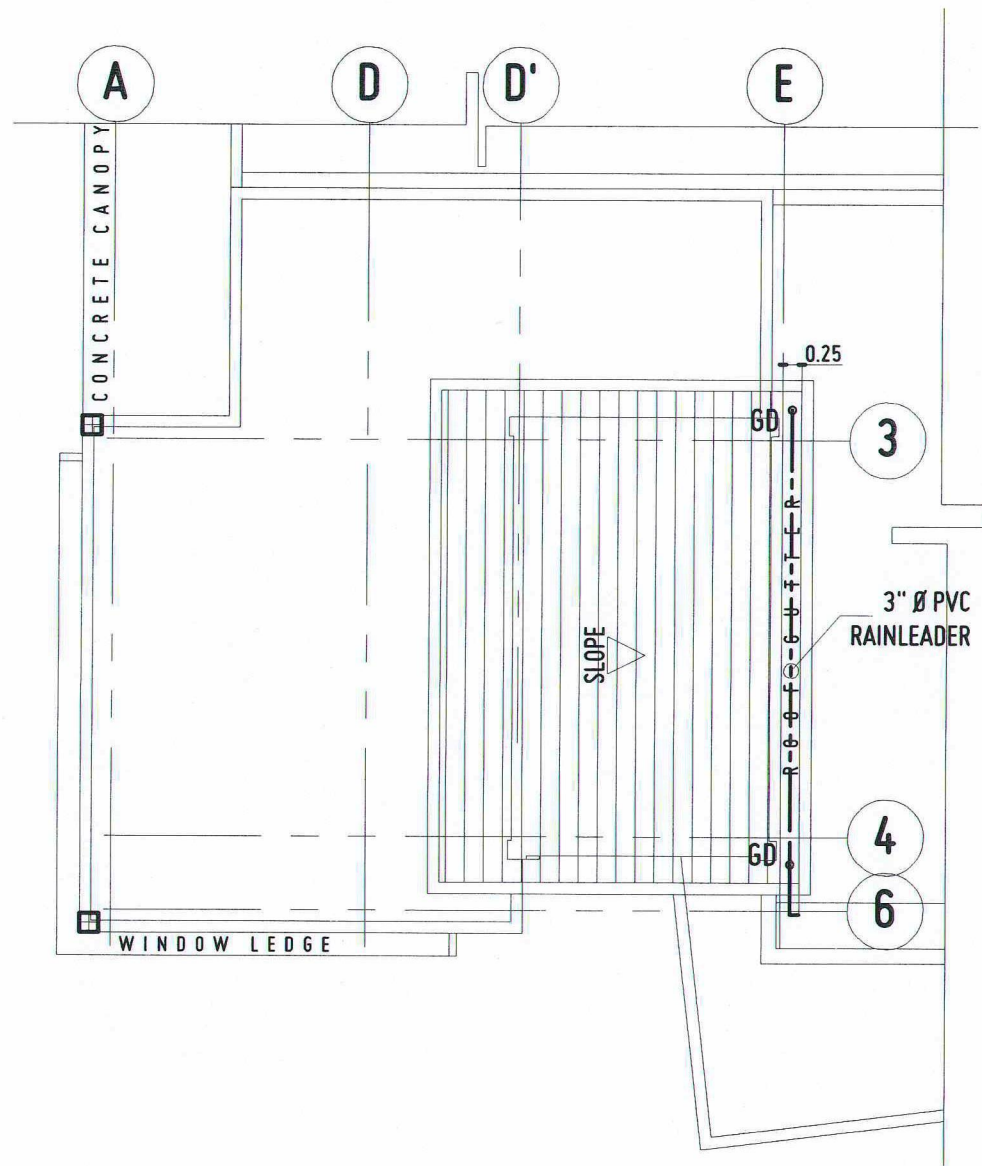
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SHEET CONTENTS:
STORM DRAIN
LAYOUT PLAN:
- ROOF DECK

DRAWN BY:
DATE DRAWN:
FMT:

P14

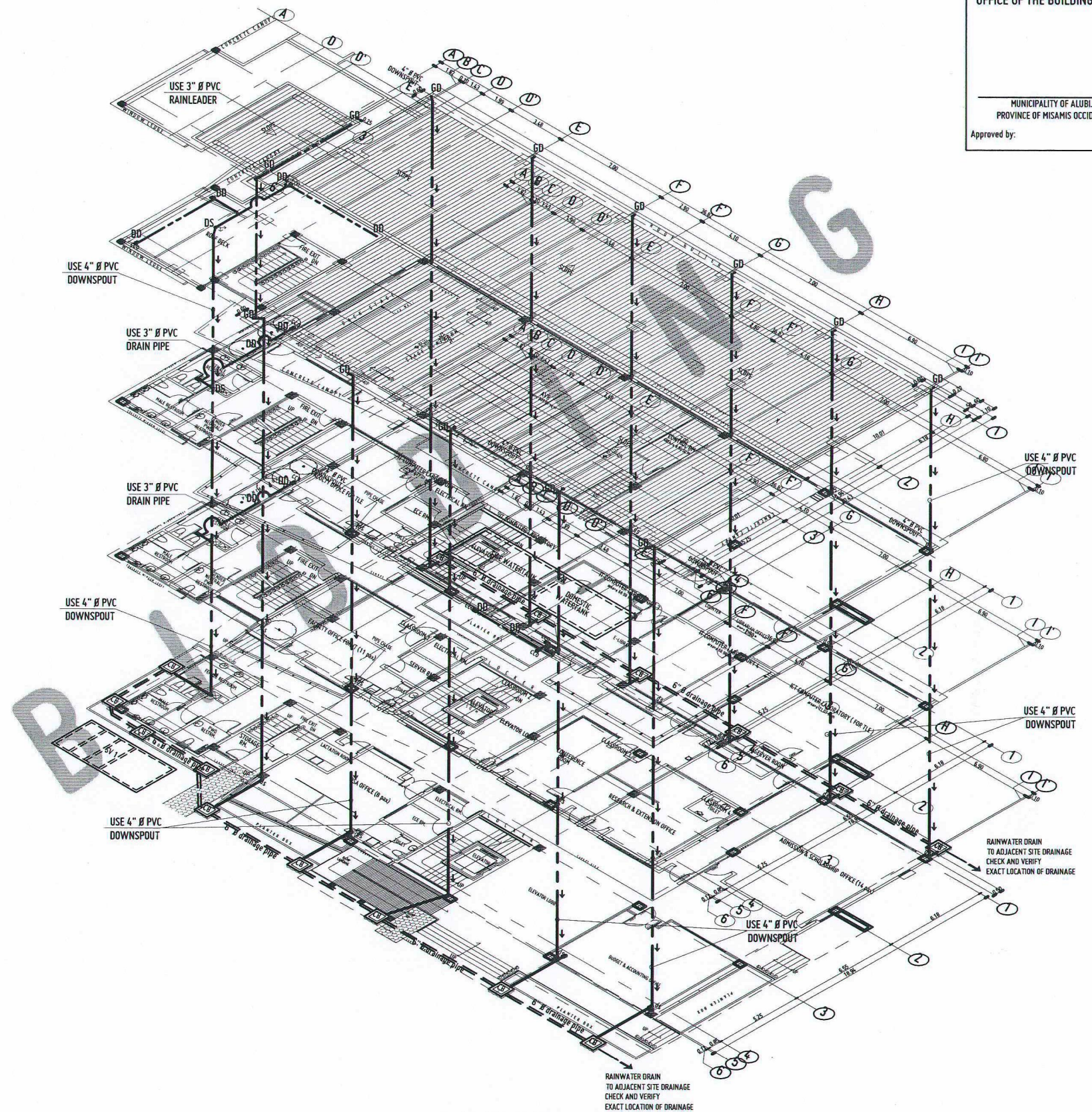


STORM DRAIN LAYOUT PLAN

UPPER ROOF

P
15 1

SCALE: 1:150 MTS

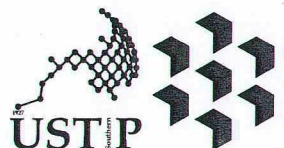


ISOMETRIC DETAIL

STORM DRAIN LAYOUT

P
15 2

SCALE: NTS



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PRC NO.	PTR NO.			
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PLACE	PLACE			

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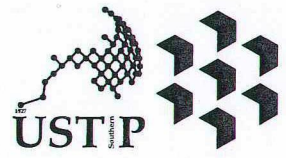
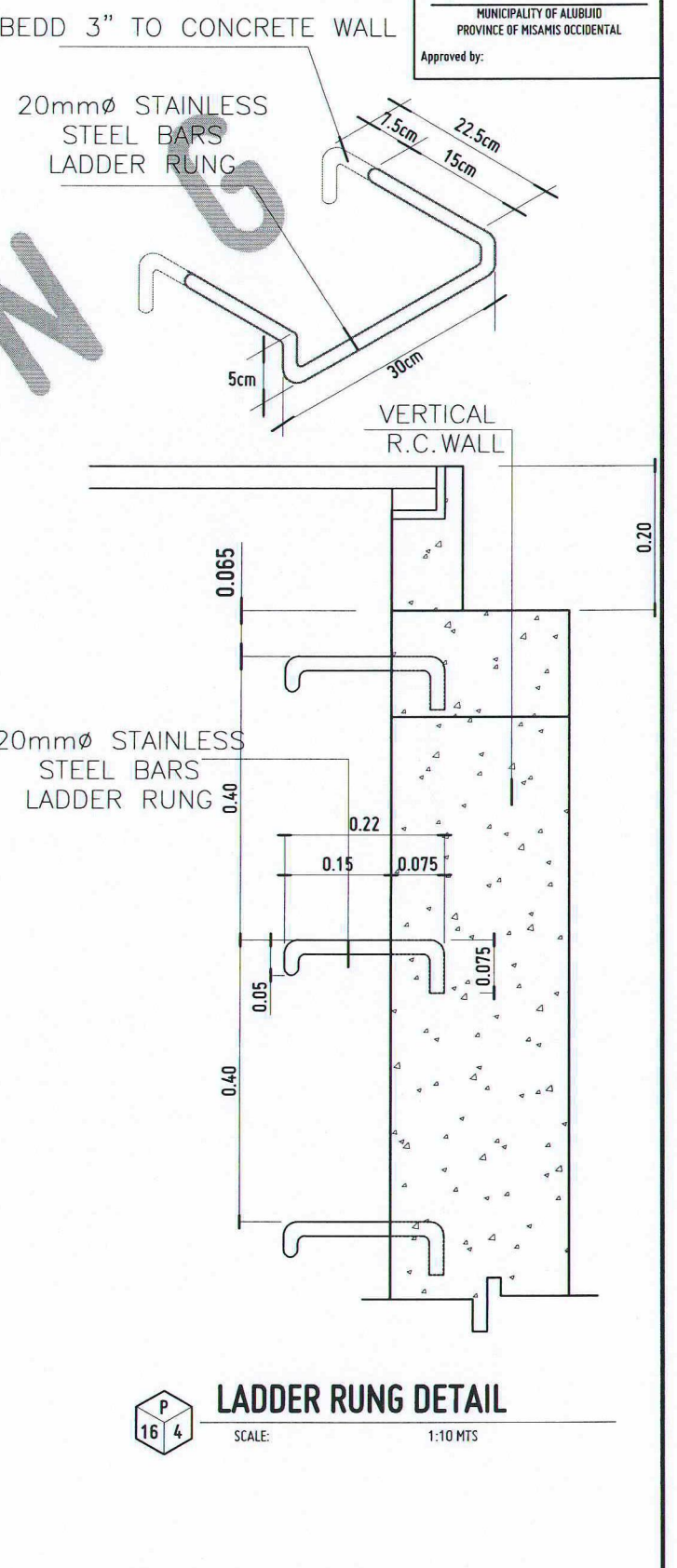
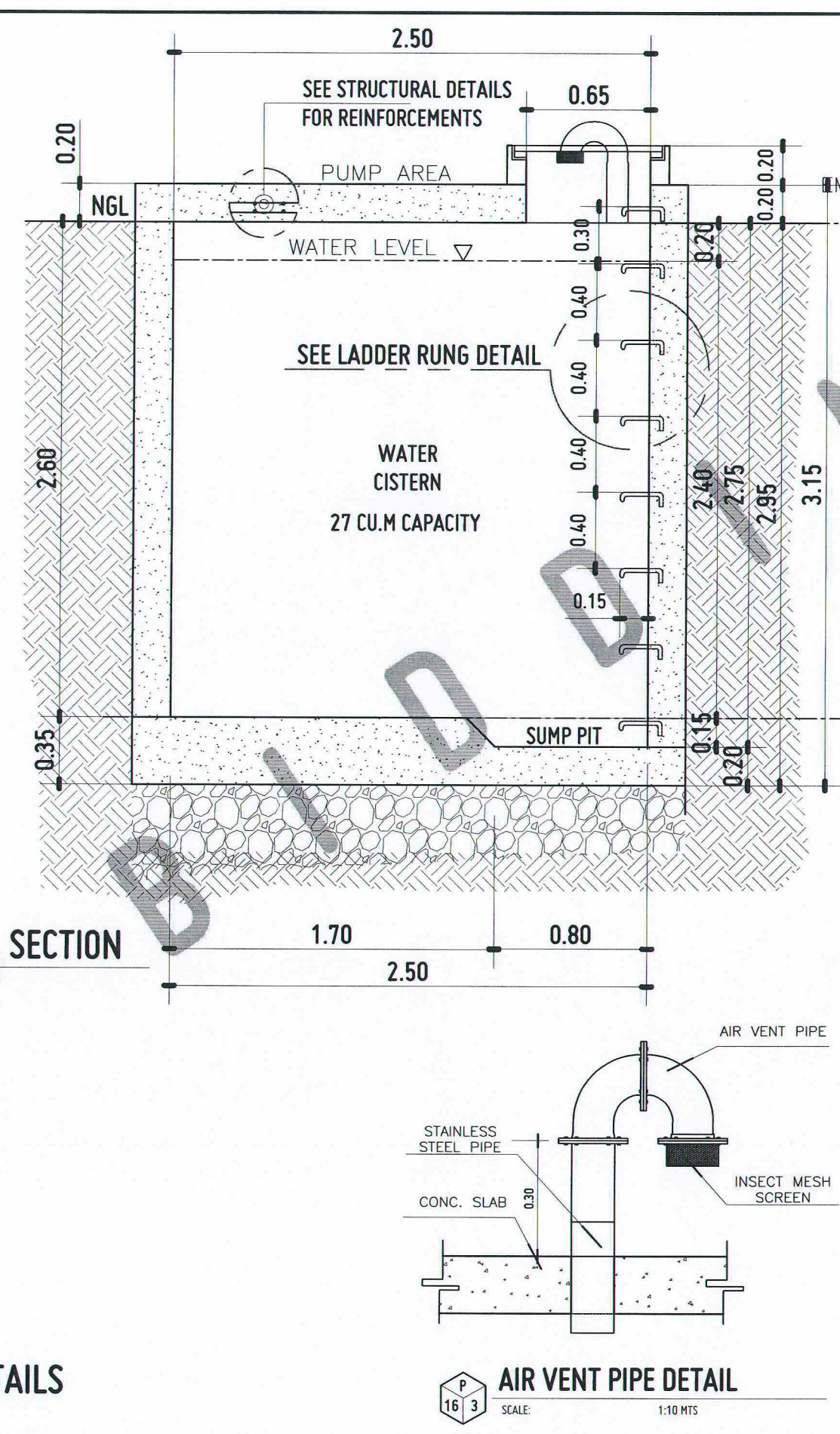
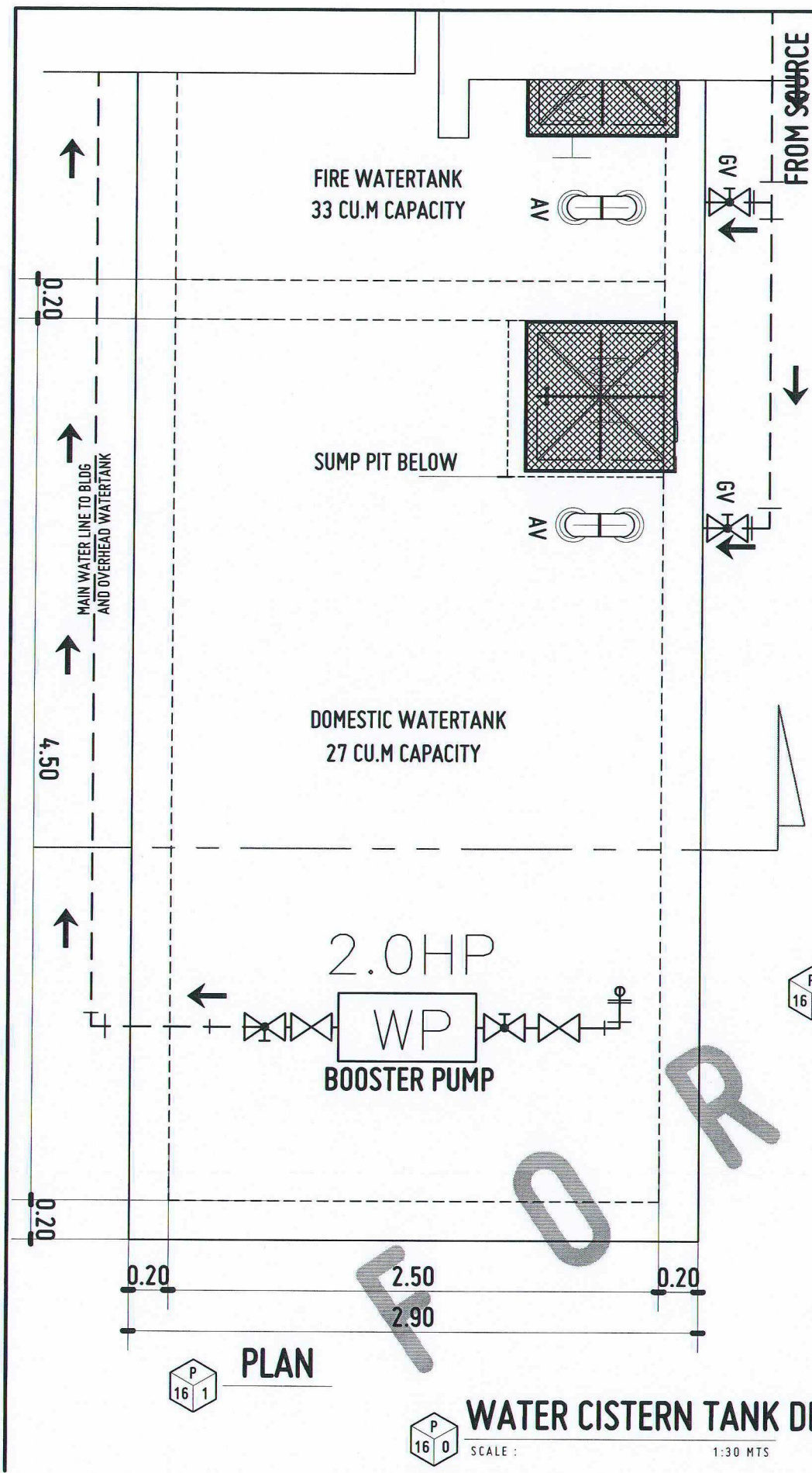
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SHEET CONTENTS:
STORM DRAIN LAYOUT PLAN:
-UPPER ROOF
ISOMETRIC DETAIL
STORM DRAIN LAYOUT

DRAWN BY:
DATE DRAWN:
FNT:

P15



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DATE		OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES
TIN NO.	PLACE		

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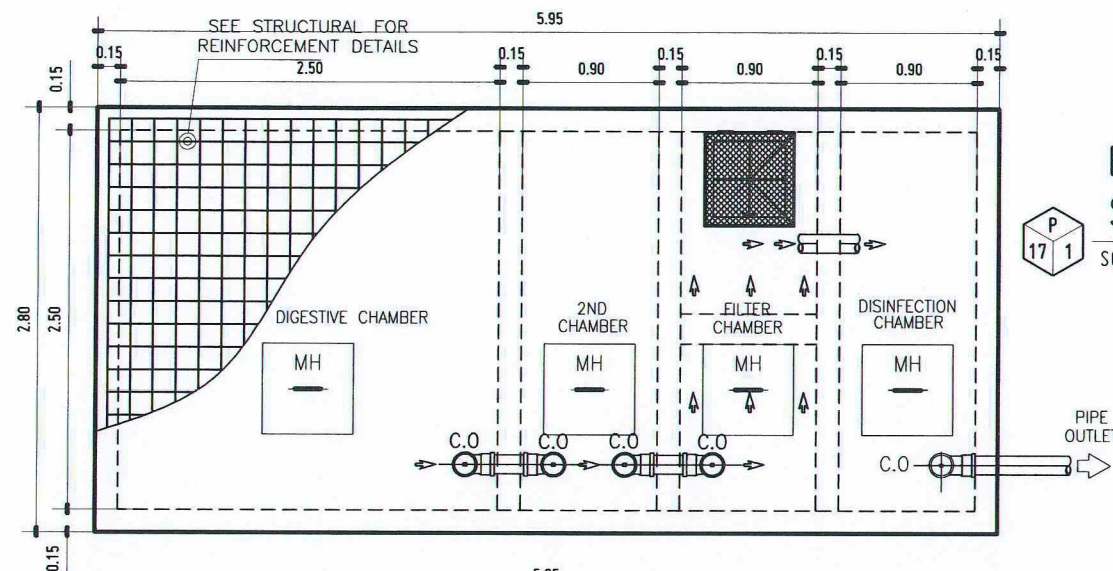
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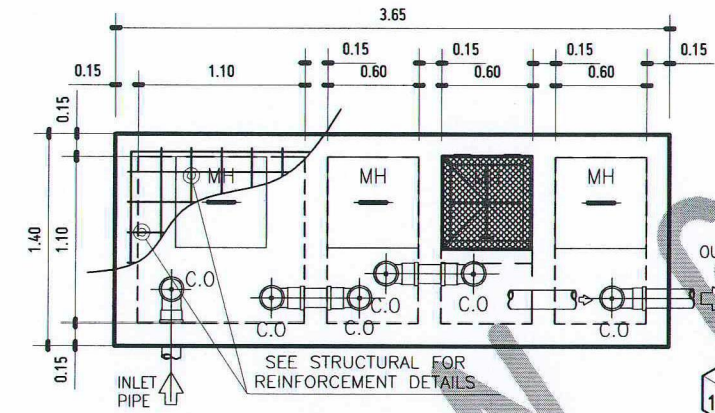
SHEET CONTENTS:	DRAWN BY:
LADDER RUNG DETAILS	DATE DRAWN:
AIR VENT PIPE DETAIL	FWT:
WATER CISTERN TANK DETAILS:	
PLAN & SECTION	

P16



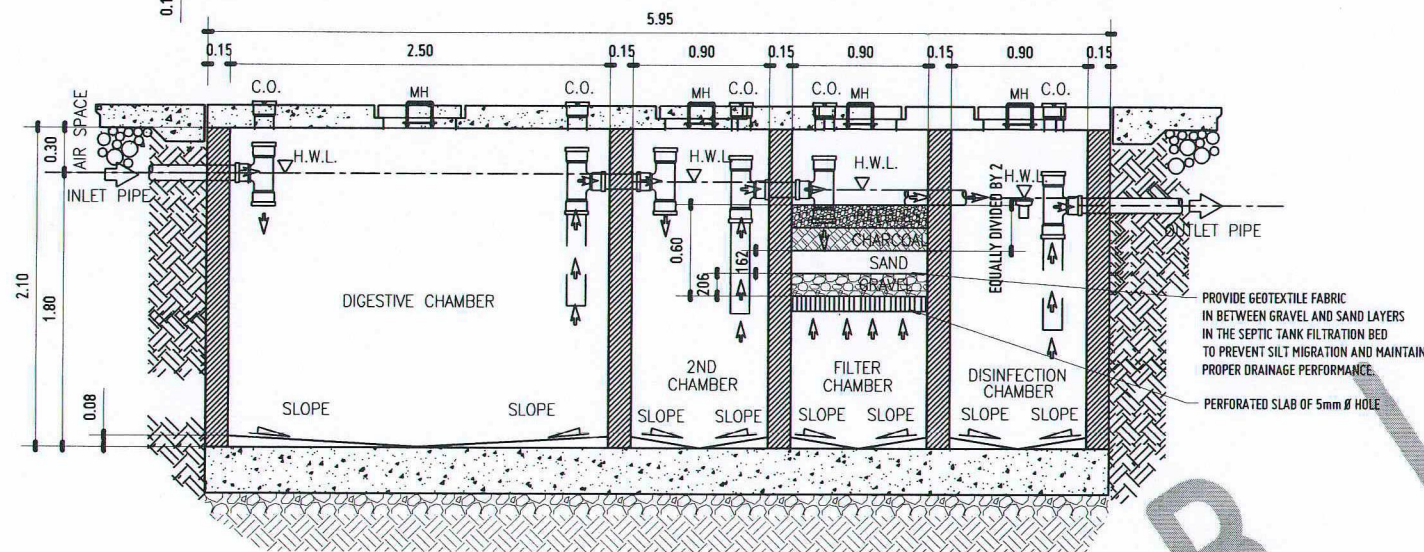
**BLOW-UP PLAN DETAIL
SEPTIC TANK 1**

SCALE : 1:50 MTS



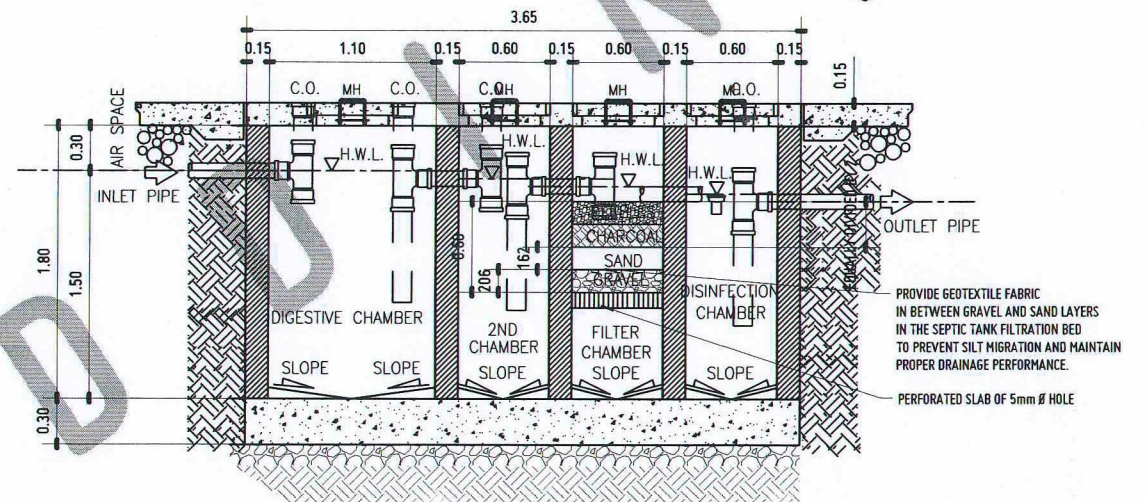
**BLOW-UP PLAN DETAIL
SEPTIC TANK 2**

SCALE : 1:50 MTS



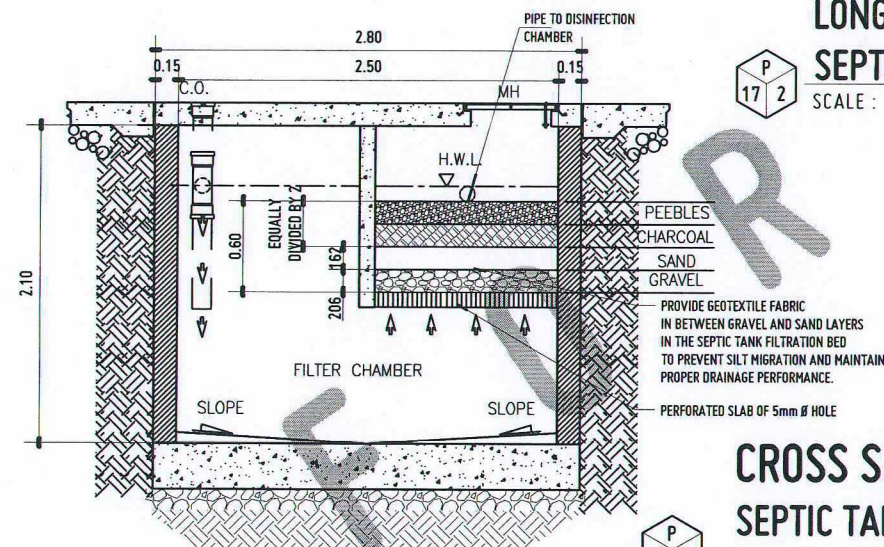
**LONGITUDINAL SECTION DETAIL
SEPTIC TANK 2**

SCALE : 1:50 MTS



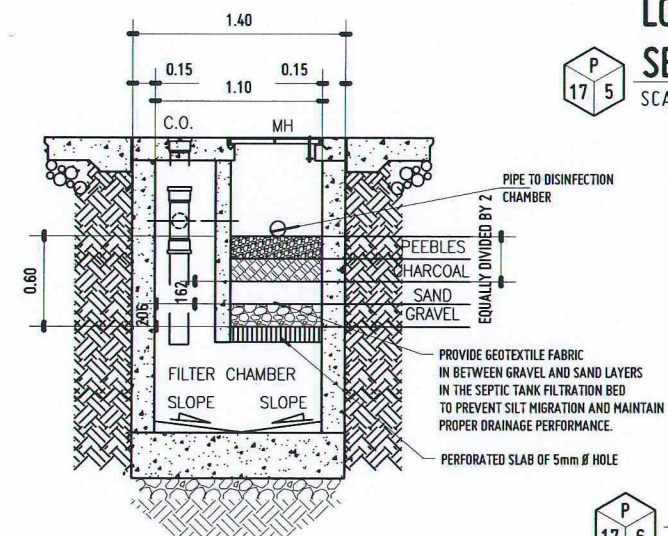
**LONGITUDINAL SECTION DETAIL
SEPTIC TANK 2**

SCALE : 1:50 MTS



**CROSS SECTION DETAIL
SEPTIC TANK 1**

SCALE : 1:30 MTS

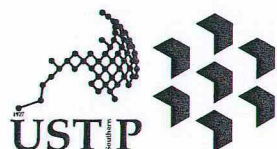


**CROSS SECTION DETAIL
SEPTIC TANK 2**

SCALE : 1:50 MTS

SEPTIC TANK 1 DETAILS

SEPTIC TANK 2 DETAILS



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MASTER PLUMBER/SANITARY ENGINEER	PROJECT	ESTABLISHMENT OF THREE-STORY SMART COMPUTING ACADEMIC BUILDING, PHASE 1, OROQUIETA CAMPUS
PRC NO.	DATE	LOCATION
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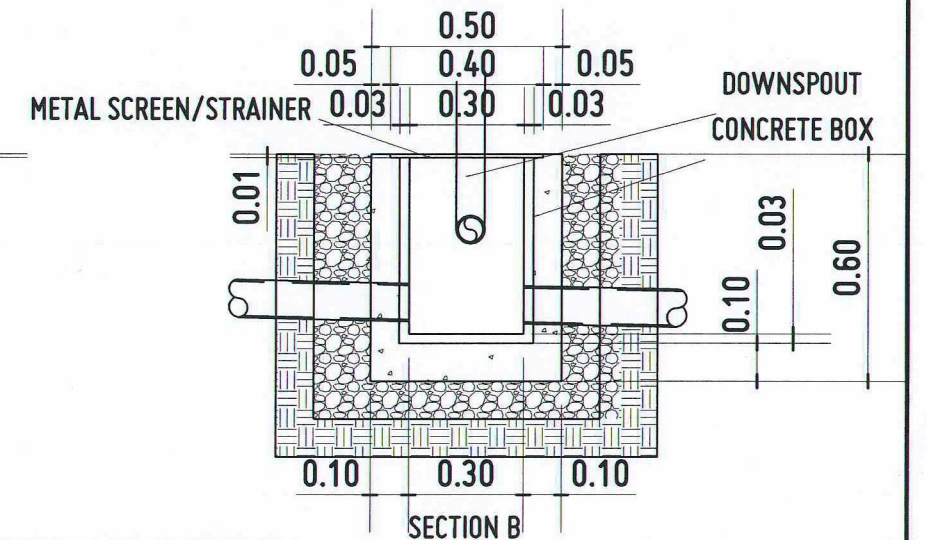
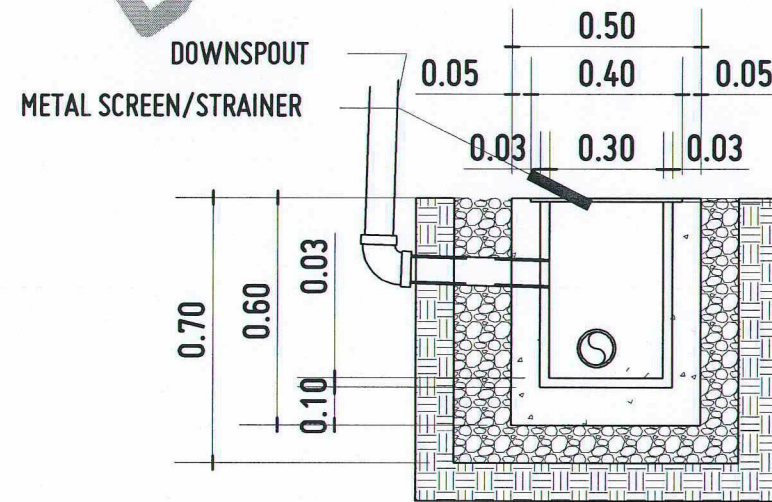
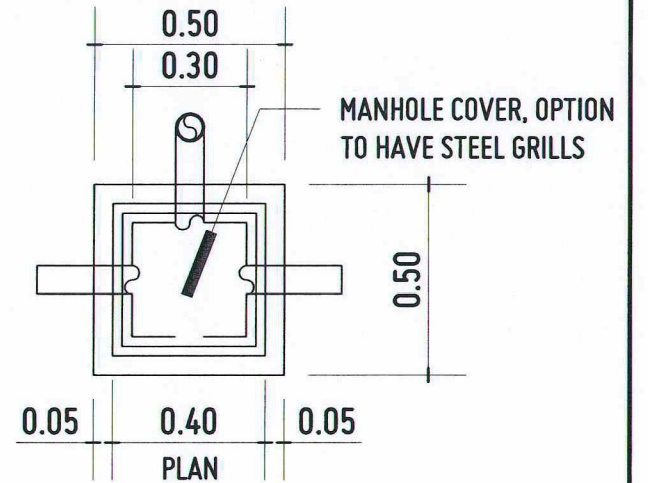
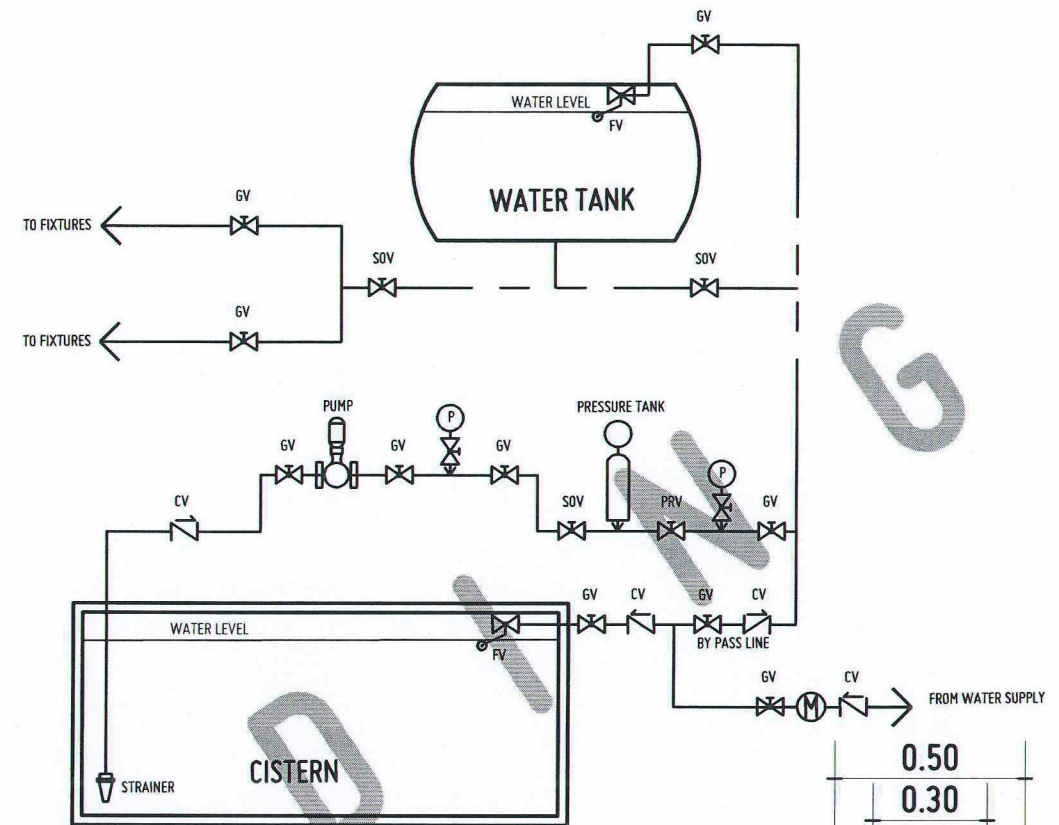
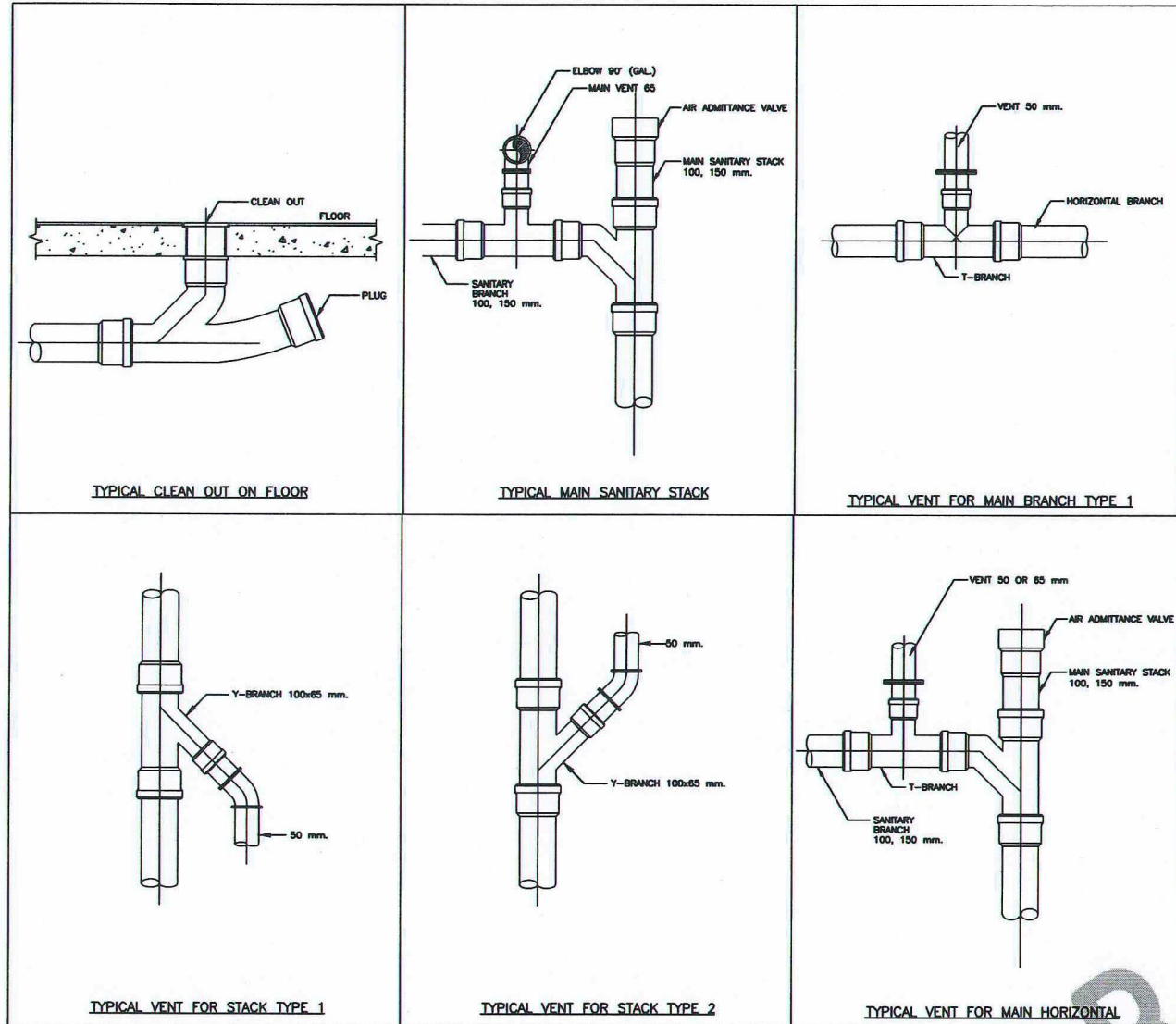
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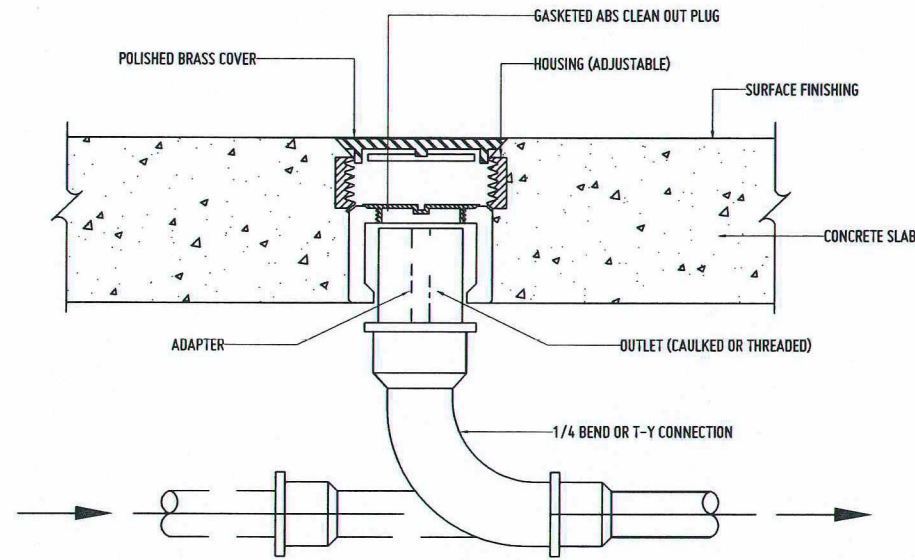
SHEET CONTENTS:
SEPTIC TANK DETAILS:
SEPTIC TANK 1 & 2
-BLOW-UP PLAN
-LONGITUDINAL SECTION
-CROSS SECTION

DRAWN BY:
DATE DRAWN:
FMT:

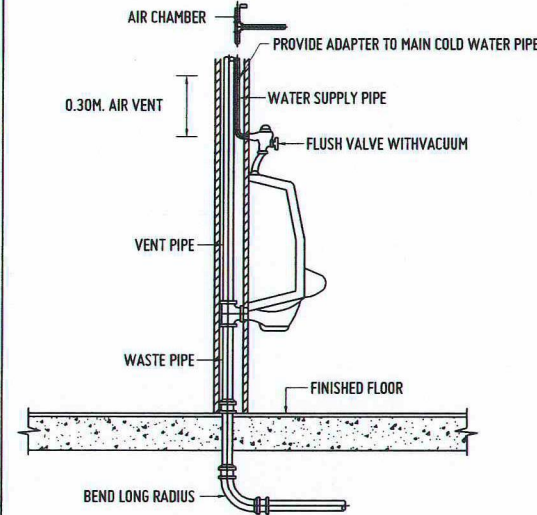
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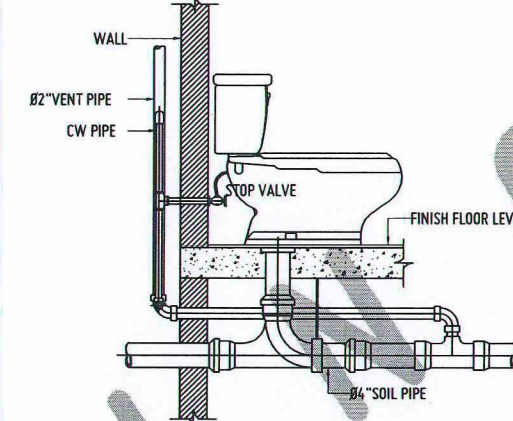
CATCH BASIN DETAILS
SCALE: 1:20 MTS



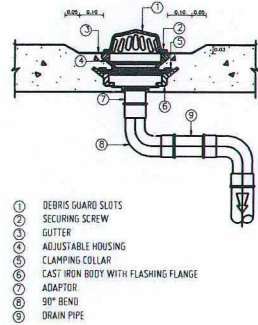
FLOOR CLEANOUT



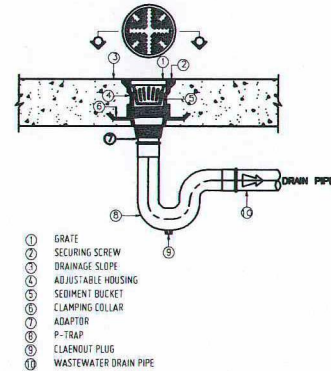
WALL HUNG URINAL (FLUSH VALVE TYPE)



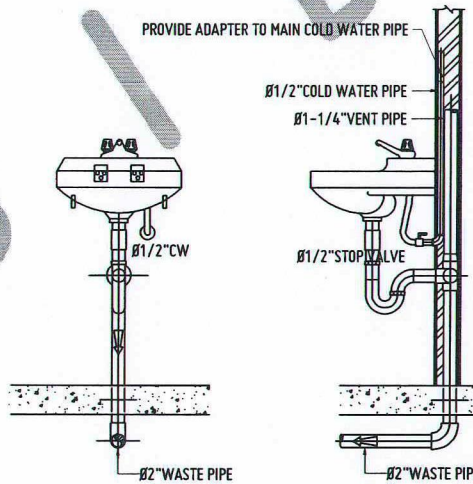
WATER CLOSET WITH FLUSH TANK (WC)



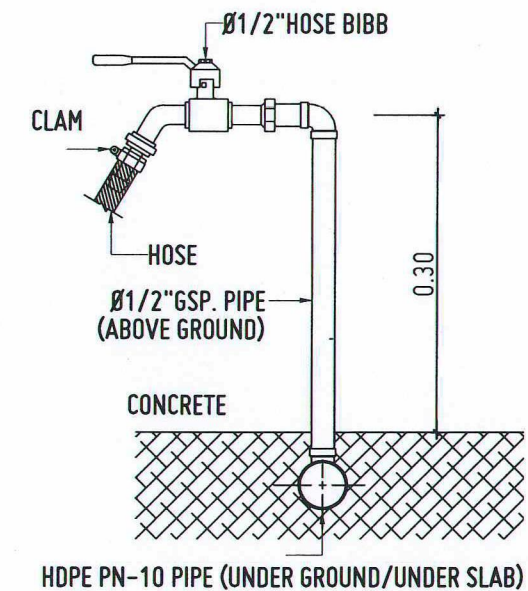
ROOF DRAIN



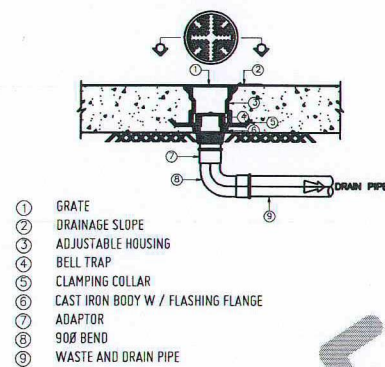
FLOOR DRAIN (USE FOR SLAB ABOVE CEILING)



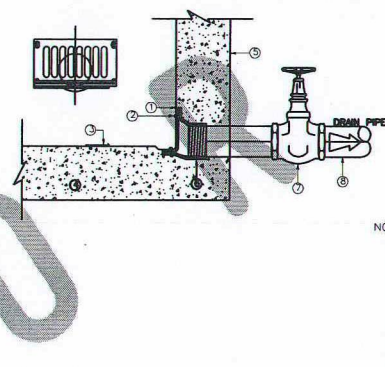
LAVATORY



HOSE BIBB



FLOOR DRAIN (USE FOR SLAB ON GROUND)



SCUPPER DRAIN (AT WATER TANK)

TOILET INSTALLATIONS & CONNECTION DETAILS

P
19
1

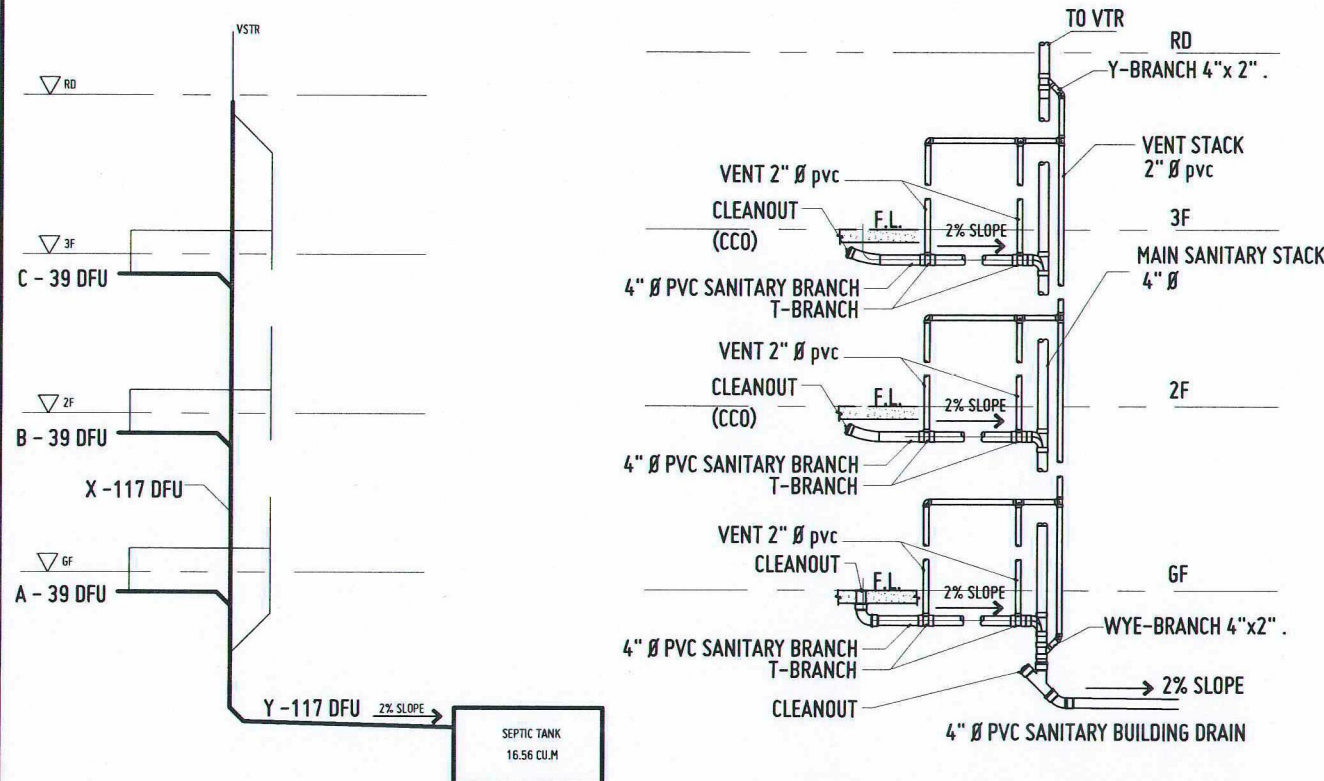
SCALE: NDTs

GENERAL NOTES & SPECIFICATIONS:

1. ALL PLUMBING WORKS SHOULD BE UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER PLUMBER.
2. ALL PLUMBING INSTALLATION SHOULD BE GOVERNED BY THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND EXISTING CITY OR LOCAL ORDINANCES.
3. NO SEPTIC VAULT SHALL BE INSTALLED WITHIN OR INSIDE THE BUILDING.
4. TANK MUST BE BUILT WATER TIGHT OF CONCRETE, STONE OR C.H.B..
5. BOTH COMPARTMENTS ARE PROVIDED WITH MANHOLE AND TIGHT COVER FOR CLEANING AND REPAIRS.
6. INLET AND OUTLET ARE SUBMERGED AND ARRANGED IN SUCH A WAY THAT NIETHER SLUDGE NOR SCUM BE UNDULY DISTURBED. BOTTOM OF THE TANK SHOULD HAVE A SLOPE OF 1:10 TOWARDS THE MANHOLE IN THE CENTER TO FACILITATE CLEANING.
7. NOT LESS THAN 0.20M. OF AIRSPACE SHOULD BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE TANK.

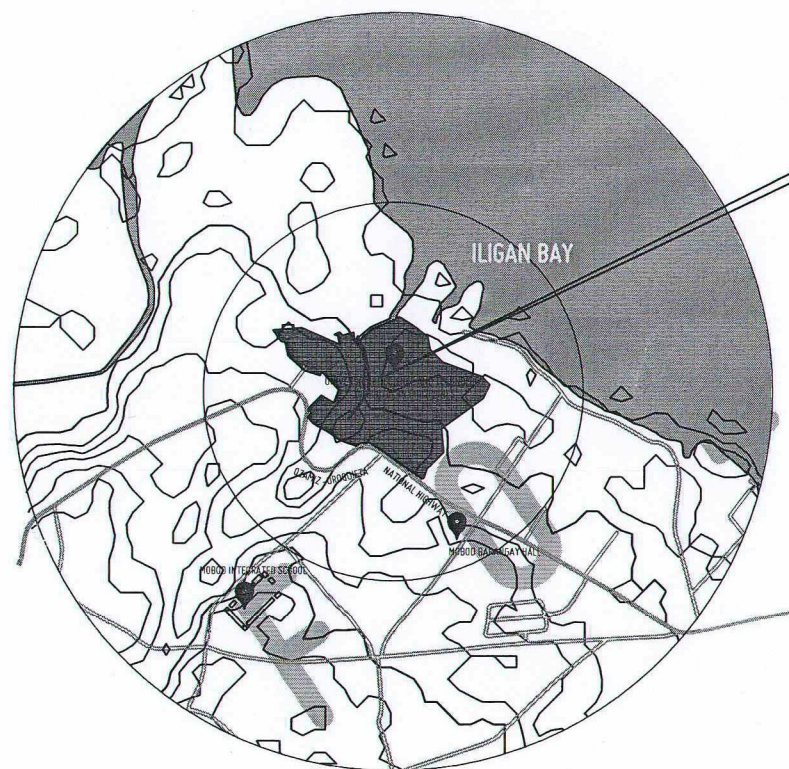
Plumbing Symbol

	Wall Lavatory	VS	Vent Stack
	Kitchen Sink, R & L Drain Board	SS	Soil Stack
	Water Closet (Tank-Type)	WS	Waste Stack
	Meter	SV	Septic Vault
	Shut-off Valve	fd	Floor Drain
	Riser	GD	Gutter Drain
	Gate Valve	DD	Deck Drain
	Check Valve	wc	Water Closet
	Hose Bib	lav	Lavatory
	VS / VTW PVC Pipe Series 1000	uri	Urinal
	SP PVC Pipe Series 1000	ks	Kitchen Sink
	WP PVC Pipe Series 1000	cco	Ceiling Cleanout
	Grease Trap	fco	Floor Cleanout
	Catch Basin	co	Cleanout



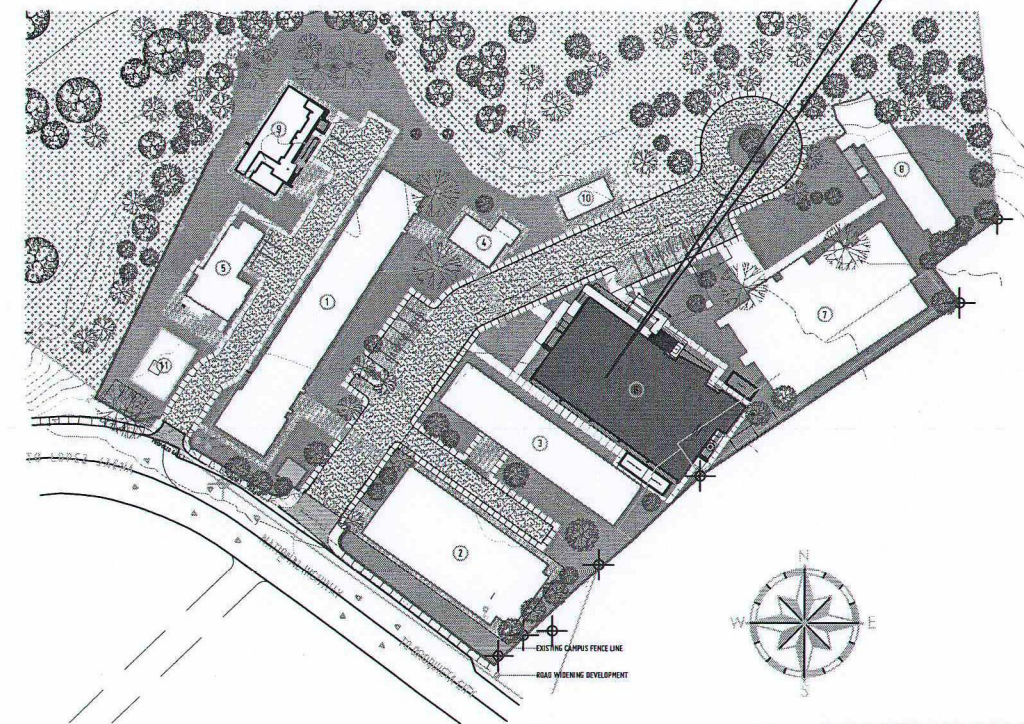
PLUMBING WASTE DIAGRAM
SCALE: NDTs

SOIL PIPE LINE RISER DIAGRAM
SCALE: NDTs



VICINITY MAP
SCALE: 20000 MTS

THIS SITE



LOCATION MAP
SCALE: 1500 MTS



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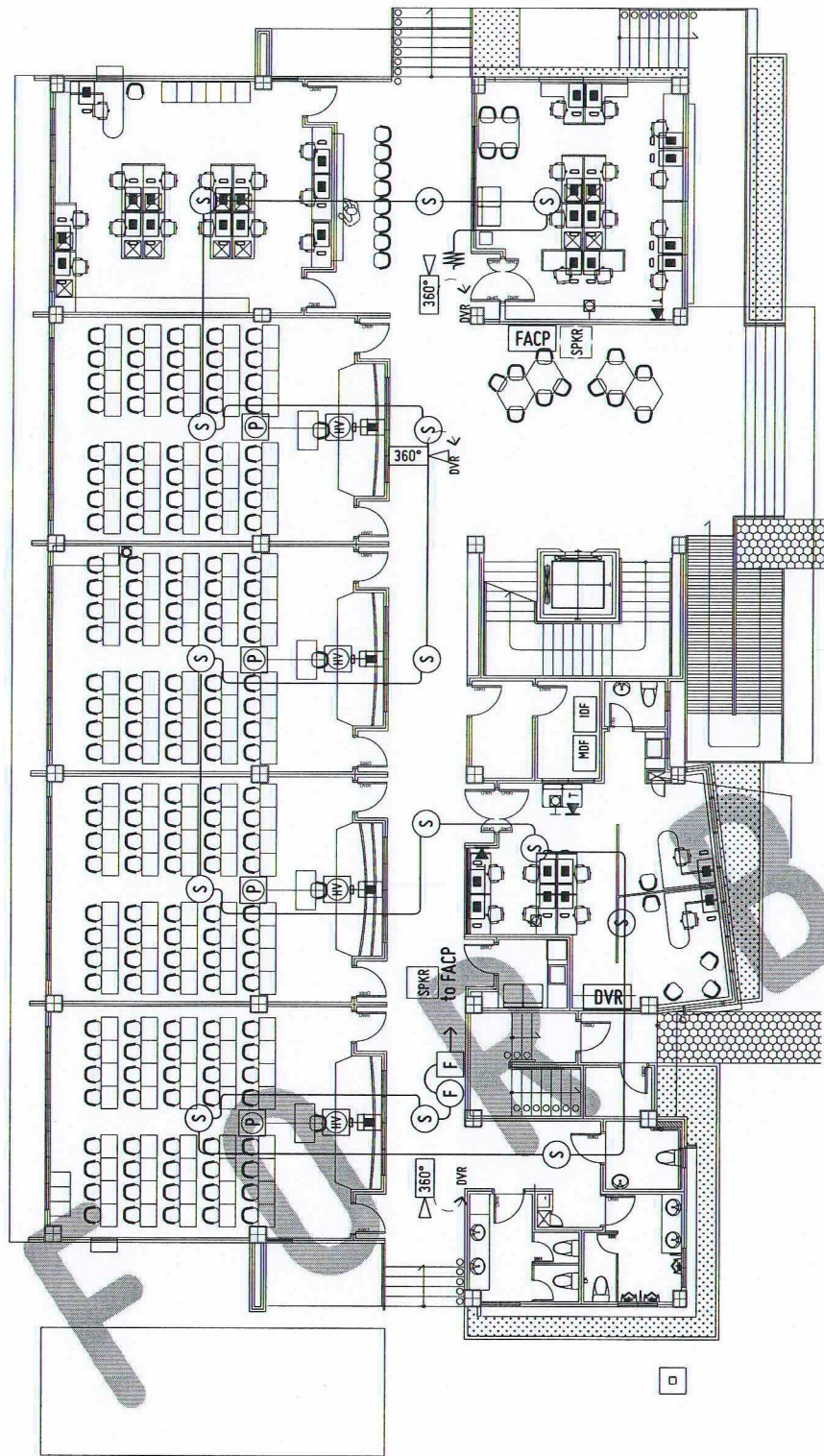
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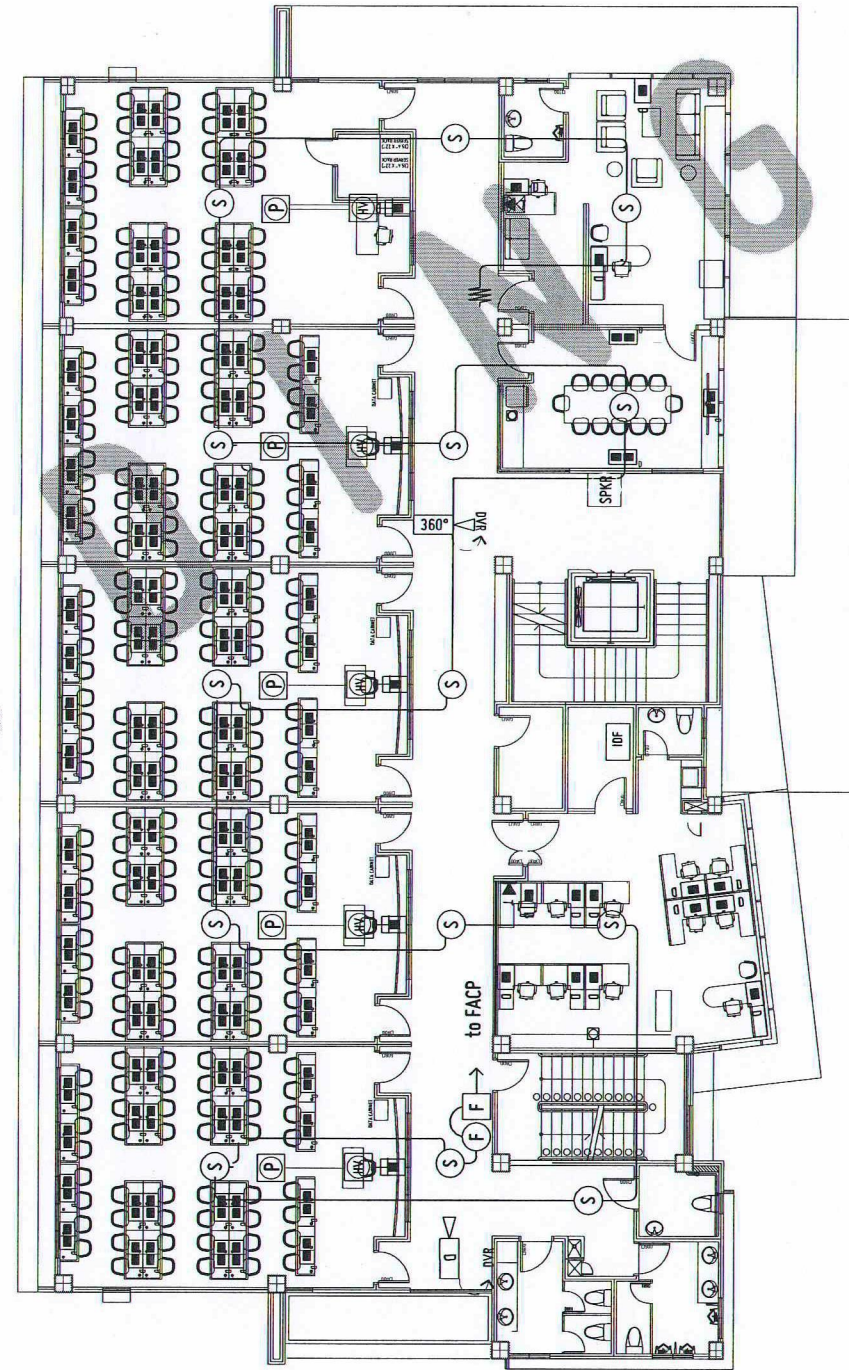
SHEET CONTENTS:
LOCATION PLAN
GENERAL NOTES &
SPECIFICATIONS
PLUMBING WASTE DIAGRAM

DRAWN BY:
DATE DRAWN:
FNT:

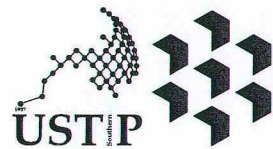
P20



GROUND FLOOR - ECE LAYOUT PLAN
SCALE: 1:100 MTS



SECOND FLOOR - ECE LAYOUT PLAN
SCALE: 1:100 MTS



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UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT
CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000
TELEPHONE # (08822) 72-60-65 / (088) 856-1738 / 856-1739 | TELE FAX (088) 856-4696
WEBSITE: www.ustp.edu.ph

ELECTRONICS ENGINEER

PROJECT
LOCATION
OWNER

PROPOSED ESTABLISHMENT OF 3-STOREY SMART COMPUTING
ACADEMIC BUILDING PHASE 1, OROQUIETA CAMPUS
USTP OROQUIETA CAMPUS, MOBOO, MISAMIS OCCIDENTAL
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

RECOMMENDING APPROVAL:
ENGR. GRACE C. BABA
DIRECTOR, INFRASTRUCTURE PLANNING &
FACILITIES DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:
DR. GLORIMER L. CLARIN
CAMPUS DIRECTOR, USTP OROQUIETA CAMPUS

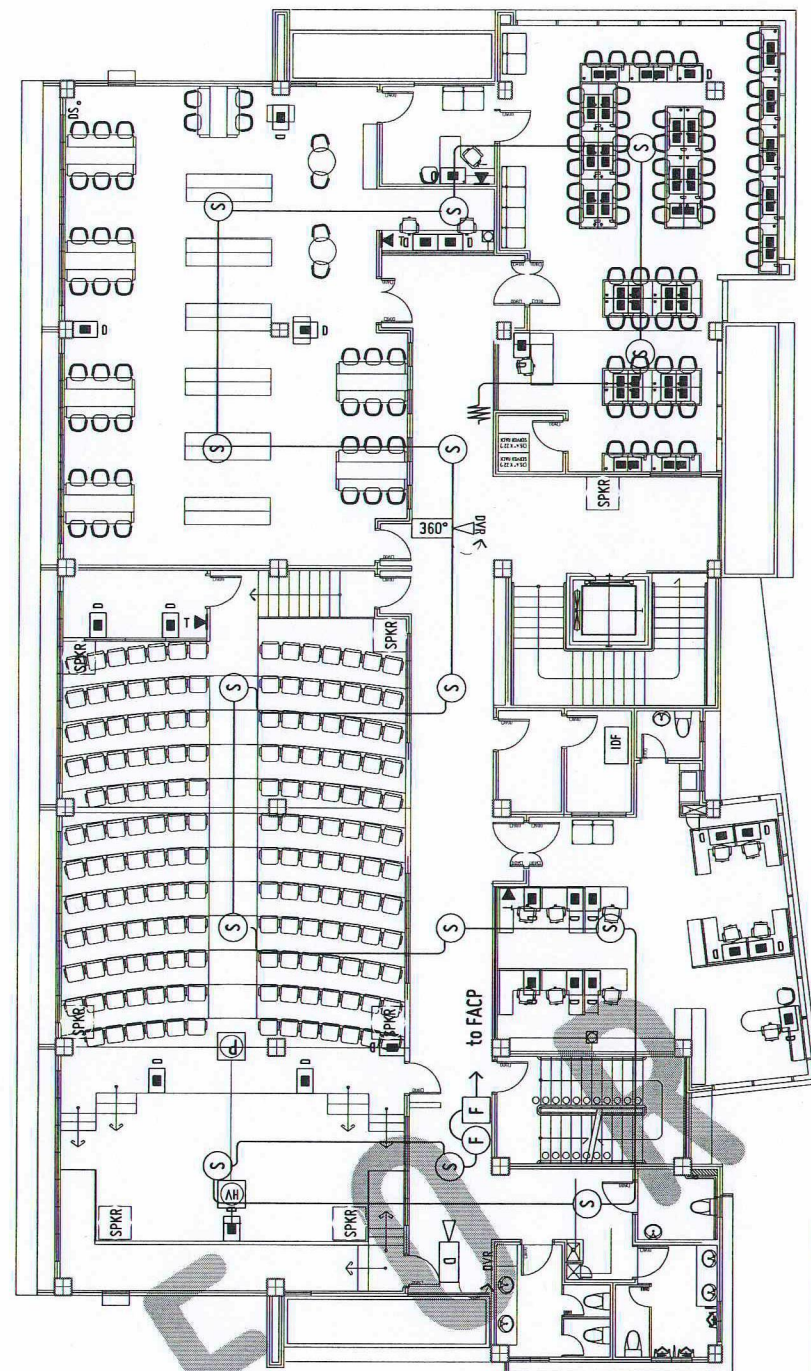
APPROVED BY:
ATTY. JONATHAN S. OCHE
VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
GROUND FLOOR - ECE LAYOUT PLAN
SECOND FLOOR - ECE LAYOUT PLAN

DRAWN BY:
DATE DRAWN:
FNT:

AUX1

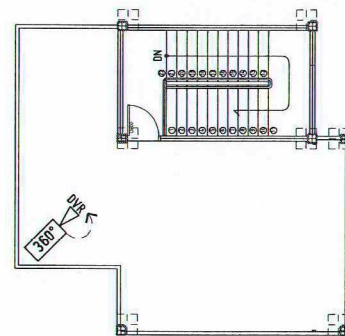


FIFTH FLOOR - ECE LAYOUT PLAN

1:100 MTS

ECE
2 1

SCALE:

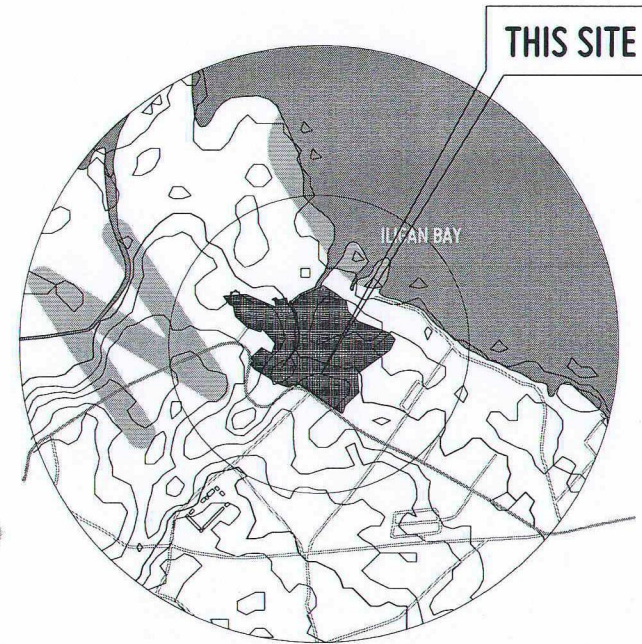


ROOF DECK PLAN

1:100 MTS

ECE
2 2

SCALE:

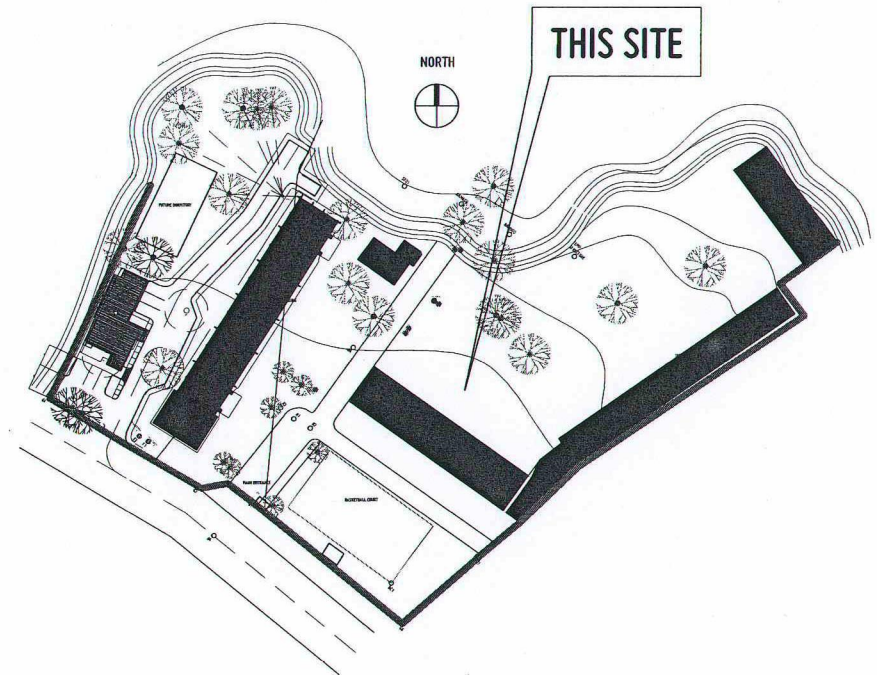


THIS SITE

VICINITY MAP

SCALE: NTS

ECE
2 3

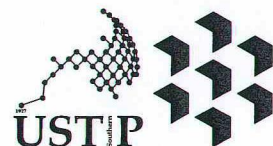


THIS SITE

LOCATION PLAN

SCALE: 1:1500 MTS

ECE
2 4



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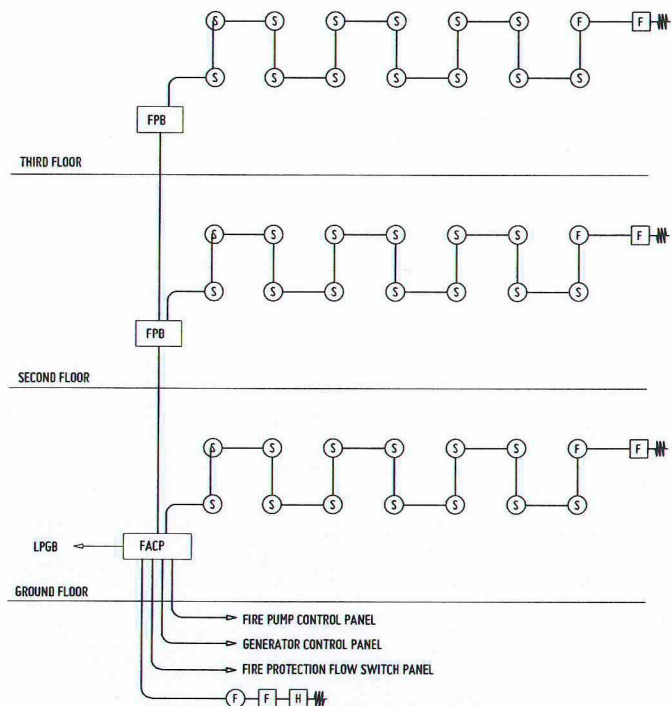
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:
DR. AMBROSIO B. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
FIFTH FLOOR - ECE LAYOUT PLAN
VICINITY MAP
LOCATION PLAN

DRAWN BY:
DATE DRAWN:
05.01.2026
PNT:

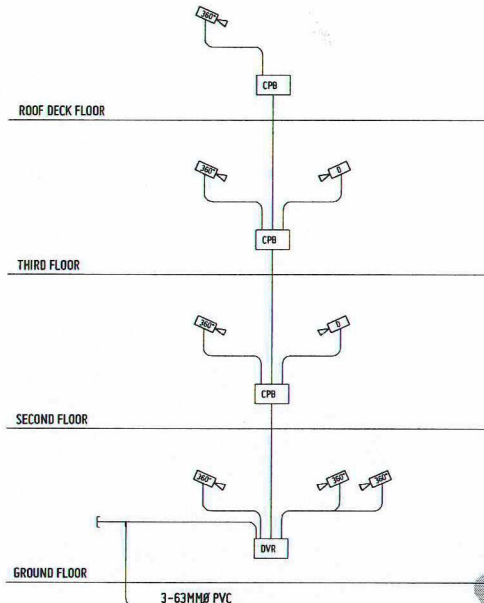
AUX2



ECE
3 1

FIRE ALARM SYSTEM RISER DIAGRAM

NOT DRAWN TO SCALE



ECE
3 2

CCTV SYSTEM RISER DIAGRAM

NOT DRAWN TO SCALE

GENERAL NOTE:

- ALL ELECTRONIC WORKS HEREIN SHALL BE DONE ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRONICS CODE. THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE UTILITY TELEPHONE COMPANY.
- ALL ELECTRONIC WORKS HEREIN INCLUDED SHALL BE EXECUTED BY THE PERSONNEL WITH ELECTRICAL EXPERIENCE UNDER THE DIRECT SUPERVISION OF A FULL TIME LICENSED ELECTRONICS ENGINEER. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF THE TAPPING POINT FOR CONNECTION TO COMMUNICATION SUPPLY.
- ALL MATERIALS SHALL BE BRAND NEW AND SHALL CONFORM WITH THE PROVISIONS OF THE UNDER WRITERS LABORATORIES INC., IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED.
- ALL CONDUITS MUST BE PROTECTED AGAINST DAMAGES BY THE ENTRANCE OF THE WATER AND FOREIGN MATTERS DURING CONSTRUCTION. ALL ENDS OF CONDUITS SHALL BE PLUGGED TO EXCLUDE MOISTURE AND DUST IMMEDIATELY AFTER THE CONDUITS ARE PLACED.
- UNLESS OTHERWISE SPECIFIED, ALL ELECTRONICS WIRING INSTALLATION SHALL BE USED RSC. THE MINIMUM SIZE OF CONDUIT SHALL BE 15MMØ.
- ALL RACEWAYS, WALL, AND FLOOR PENETRATION SHALL BE PROVIDED WITH FIRE BARRIER OF THE APPROVED TYPE.
- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH THE FACTORY KNOCKOUTS. PULLBOXES SHALL BE USED WHEN APPLICABLE FOR EASY PULLING OF WIRES AND SHALL BE IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE REQUIREMENT. PREFERRED BRAND FOR JUNCTION, PULLBOXES OR UTILITY SQUARE BOXES SHALL BE FUMACO, AMCO, TIMO OR APPROVED EQUAL.
- MOUNTING HEIGHTS OF DEVICES SHALL BE: (SUBJECT TO ARCHITECTS APPROVAL PRIOR TO INSTALLATION)
- ALL SPEAKER WIRING SHALL BE 2-0.75 SQ.MM SHIELDED SPEAKER WIRE.
- NETWORK CABLES/ CONDUIT SHALL HAVE A MINIMUM DISTANCE OF 0.3M FROM POWER CONDUIT WHEN LAND PARALLEL AND MUST RUN PERPENDICULAR TO THE STEEL CONDUIT WHEN CUTTING ACROSS A POWER LINE.
- THE PLANS AS DRAWN ARE BASED UPON THE ARCHITECTURAL PLANS AND THE DETAILS AND SHOWN CONDITION AS ACCURATELY AS IT IS POSSIBLE TO INDICATE THEM IN SCALE. THE PLANS ARE DIAGRAMMATICAL AND DOES NOT NECESSARILY SHOW ALL FITTINGS NECESSARY TO FIT TO THE BUILDING CONDITIONS. THE LOCATIONS OF OUTLETS, APPARATUS AND APPLIANCES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTORS SHALL BE HELD RESPONSIBLE FOR THEIR PROPER LOCATION IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL DETAILS AND INSTRUCTIONS FROM THE ENGINEER'S REPRESENTATIVE AT THE SITE.

GENERAL NOTES:

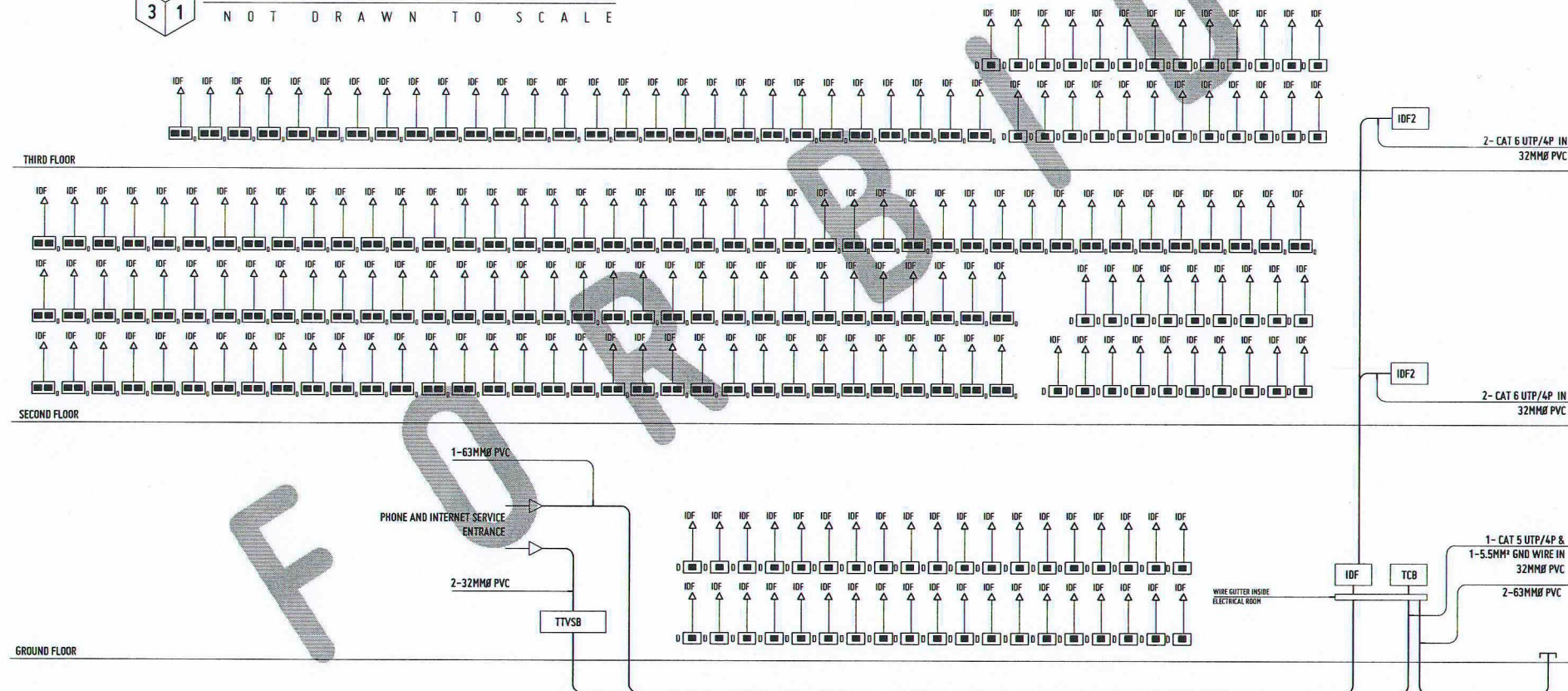
- F.F.L. = FINISH FLOOR LINE. VERIFY FLOOR FINISHES/MATERIALS.
- ALL INTERIOR PARTITIONS AND FURNITURE LAYOUT ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY INTERIOR DESIGN DRAWINGS.
- ALL LANDSCAPE ARCHITECTURE ELEMENTS ARE INDICATIVE ONLY AND MAY CHANGE. VERIFY LANDSCAPE ARCHITECTURE DRAWINGS.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TO GOVERN.
- IN CASE OF DISCREPANCY IN THE FIGURES AND DRAWINGS THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE ADJUSTMENTS ARE TO BE MADE.
- VERIFY ACTUAL TECHNICAL SITE CONDITIONS.
- VERIFY ACTUAL ELEVATION MARKS AND LOT BOUNDARIES PRIOR TO COMMENCING WORK.
- ALL WORKS HEREIN SHALL BE DONE UNDER THE STRICT SUPERVISION OF DULY LICENSED AND EXPERIENCED ARCHITECT/ENGINEER.
- LOT AND BUILDING BOUNDARIES SHOULD BE SUPPORTED BY RETAINING WALLS AND FENCES. VERIFY EXISTING HEIGHTS, ELEVATIONS AND OTHER SITE CONDITIONS.
- THE GENERAL CONTRACTOR, SUB-CONTRACTORS INCLUDING SPECIALTY CONTRACTORS, SHALL SUBMIT PROPER SHOP DRAWINGS INCLUDING MATERIALS SAMPLE PRIOR TO INSTALLATIONS FOR ARCHITECT'S APPROVAL.

LEGEND:

- Single Telephone Wall Outlet, RJ11
- Single Telephone Floor Mounted Outlet
- Single Universal Data Floor/Wall Outlet, RJ45
- Duplex Universal Data Floor/Wall Outlet, RJ45
- Intermediate Distribution Frame
- Main Distribution Frame
- Wall Cable TV Outlet, Provide 1- RG6/U Coaxial Cable
- Cable TV Box
- Telephone and Cable TV Box
- Provision for HDMI/VGA Cabling for Overhead Projector, Verify Exact Location with Architect.
- HDMI & GA Wall Outlet in Single Plate Interconnect with the Overhead Projector HDMI/VGA Wiring Provision or T.V. Appliances HDMI/VGA Cable via 63MMØ PVC Refer to Layout.
- Smoke Detector - Ceiling Mounted
- Smoke Detector - Wall Mounted
- Heat Detector, Ceiling Mounted
- Fire Alarm Strobe and Horn, UL Listed Brand
- Fire Alarm Manual Pull Station, UL Listed Brand
- End of Line Resistor

- SYMBOL
 - CCTV: CLOSED CIRCUIT TELEVISION, DOME TYPE PROVIDE SIGNAL CABLE & POWER CABLE FOR EACH CAMERA. WIRING IS SUBJECT TO MANUFACTURER'S STANDARD.
 - CCV: CLOSED CIRCUIT TELEVISION, REVOLVING 360°
 - CPB: CCTV WIRING PULLBOX WITH POWER SUPPLY
 - DVR: DIGITAL VIDEO RECORDER
- MINIMUM CONDUIT SHALL BE 20MM (3/4")Ø. USE IMC FOR ALL EXPOSED CONDUIT OR INSIDE DRYWALL AND PVC FOR ALL CONCRETE EMBEDDED CONDUIT.
- VERIFY EXACT NUMBER OF CCTV CAMERA WITH LAYOUT.
- VERIFY AND/OR COORDINATE WITH OWNER/USER THE EXACT LOCATION OF DVR PRIOR TO LAYOUT OF CONDUIT.
- BOND ALL CPB, CABLE TRAY USING 5.5MM² GROUND WIRE AND BOND TO IBTB
- CCTV SYSTEM AND WIRING SCHEDULE.

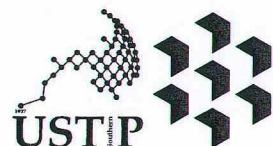
C	CONDUIT SIZE, MM² (INCHØ)	
1	20	25 (3/4)
2	20	25 (3/4)
4	25	32 (1)
8	32	40 (1-1/4)
10	40	50 (1-1/2)
15	50	63 (2)



ECE
4 3

TELEPHONE AND INTERNET RISER DIAGRAM

DRAWN NOT TO SCALE



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GENERAL NOTES
LEGENDS

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FNT:

AUX3