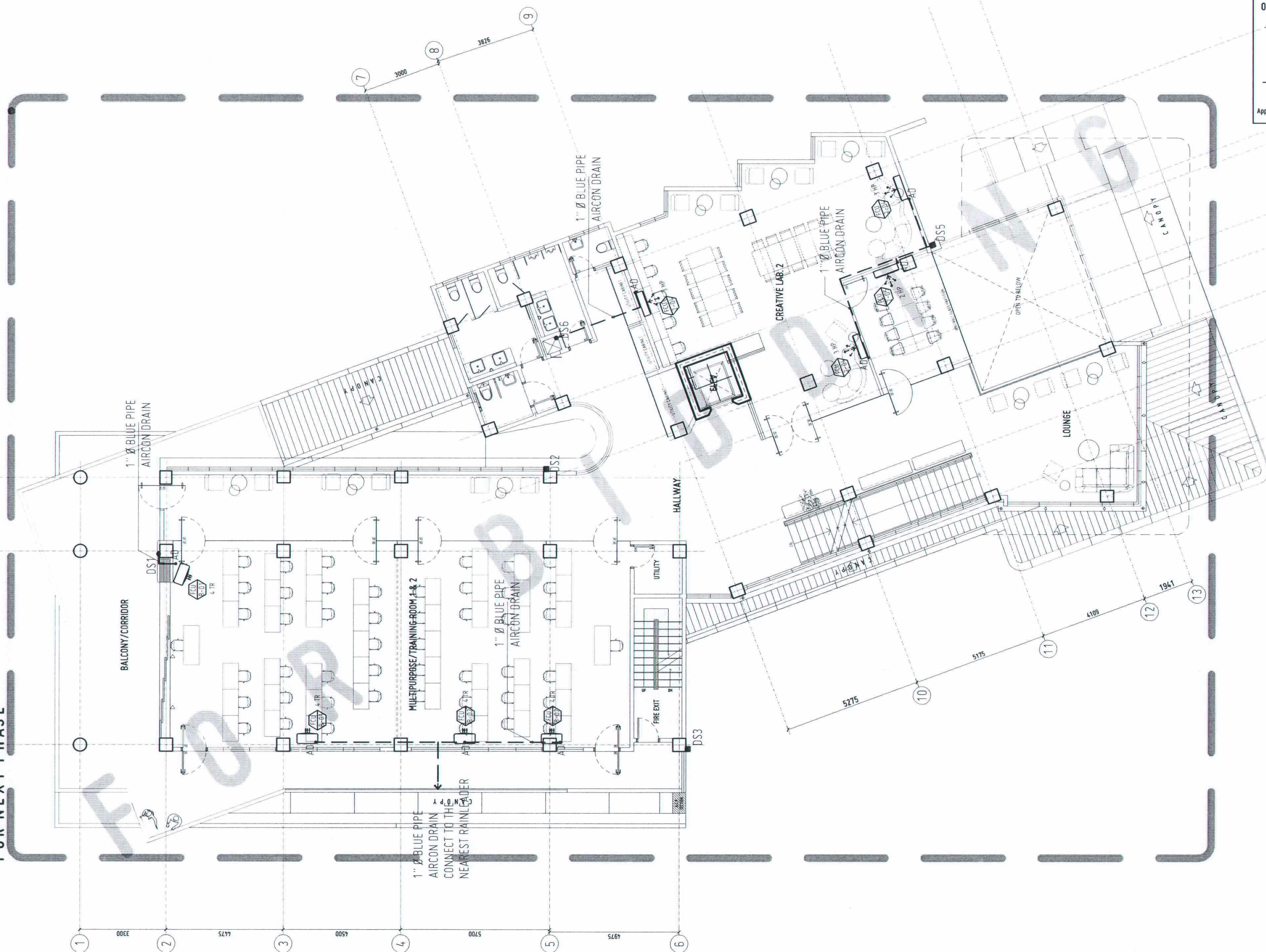
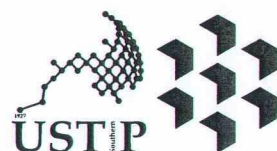


FOR NEXT PHASE



AIRCON DRAIN PIPING LAYOUT
SECOND FLOOR

SCALE: 1:150 MTS



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CAGAYAN DE ORO CAMPUS
INFRASTRUCTURE PLANNING AND FACILITY DEVELOPMENT UNIT

CLARO M. RECTO AVENUE, LAPASAN, CAGAYAN DE ORO CITY 9000
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WEBSITE: www.ustp.edu.ph

MASTER PLUMBER/SANITARY ENGINEER	
PRC NO.	PTR NO.
DATE	PLACE
TIN NO.	

PROJECT	
CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBIJID (MAIN) CAMPUS	
LOCATION	USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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

RECOMMENDING APPROVAL:	
DR. LORY LIZA D. BULAY-OG	
DIRECTOR, USTP ALUBIJID	

RECOMMENDING APPROVAL:	
ATTY. JONATHAN S. OCHE	
OFFICER-IN-CHARGE, OFFICE OF THE VP FOR ADMINISTRATION & LEGAL AFFAIRS	

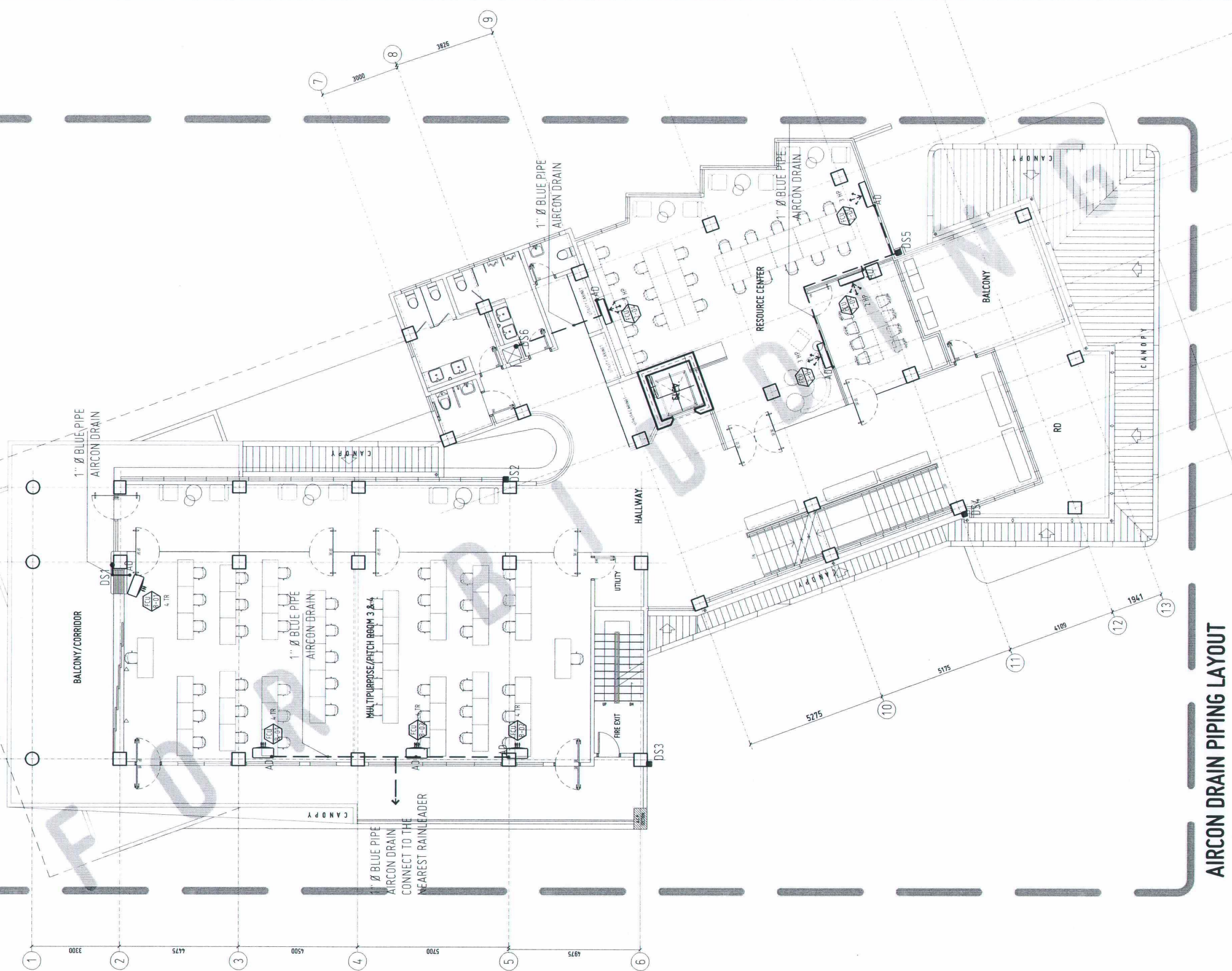
APPROVED BY:	
DR. AMBROSIO B. CULTURA II	
PRESIDENT, USTP SYSTEM	

SHEET CONTENTS:
AIRCON DRAIN
LAYOUT PLAN:
-SECOND FLOOR

DRAWN BY:	
DATE DRAWN:	
PTN:	

P22

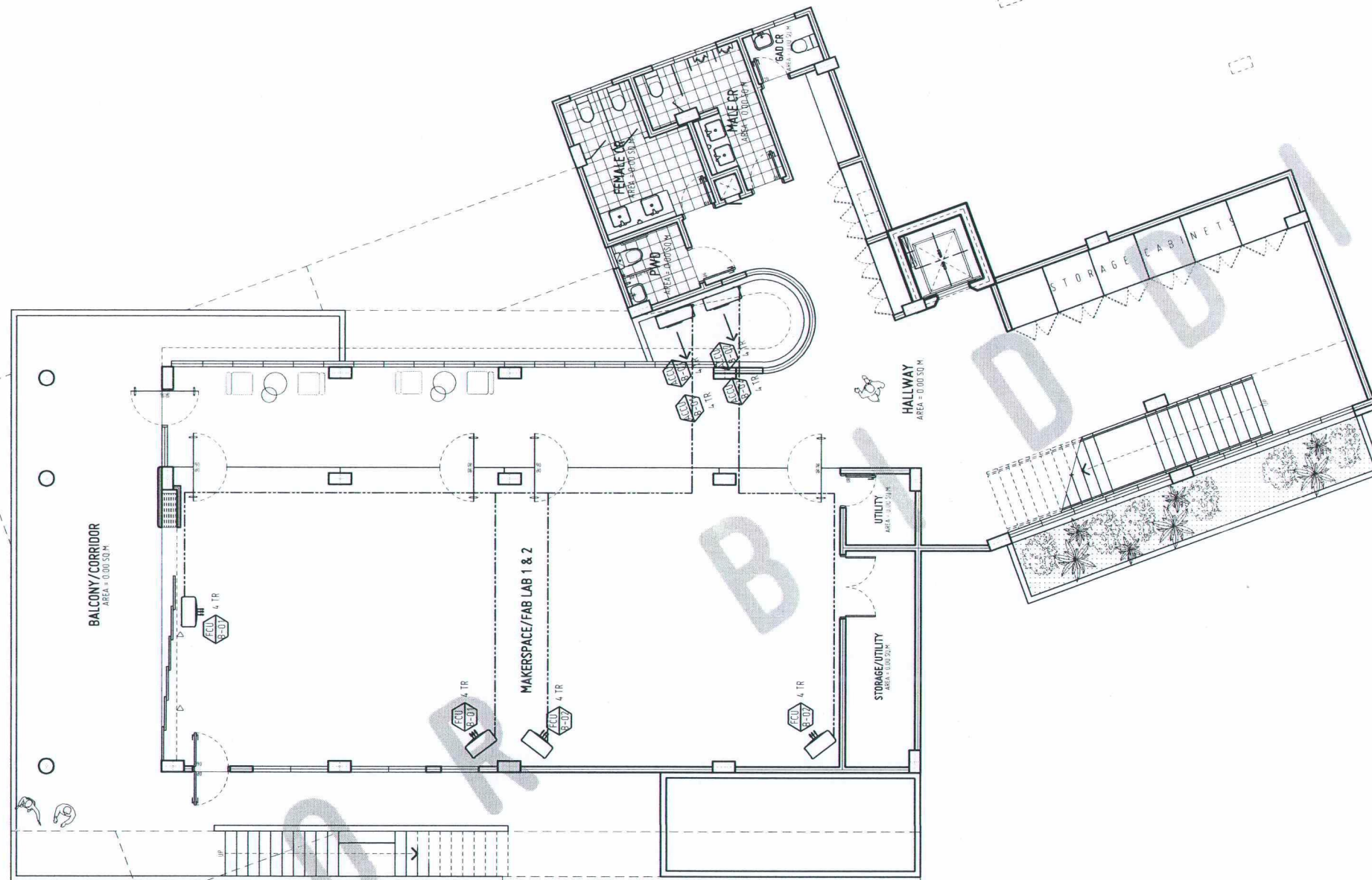
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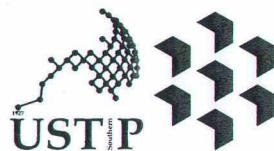
AIRCON DRAIN PIPING LAYOUT
THIRD FLOOR

SCALE: 1:150 MTS





AC LAYOUT - LOWER GROUND
SCALE: 1:150 MTS



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PROFESSIONAL MECHANICAL ENGINEER		PROJECT
PRC NO.	PTR NO.	LOCATION
DATE	PLACE	OWNER
TIN NO.		

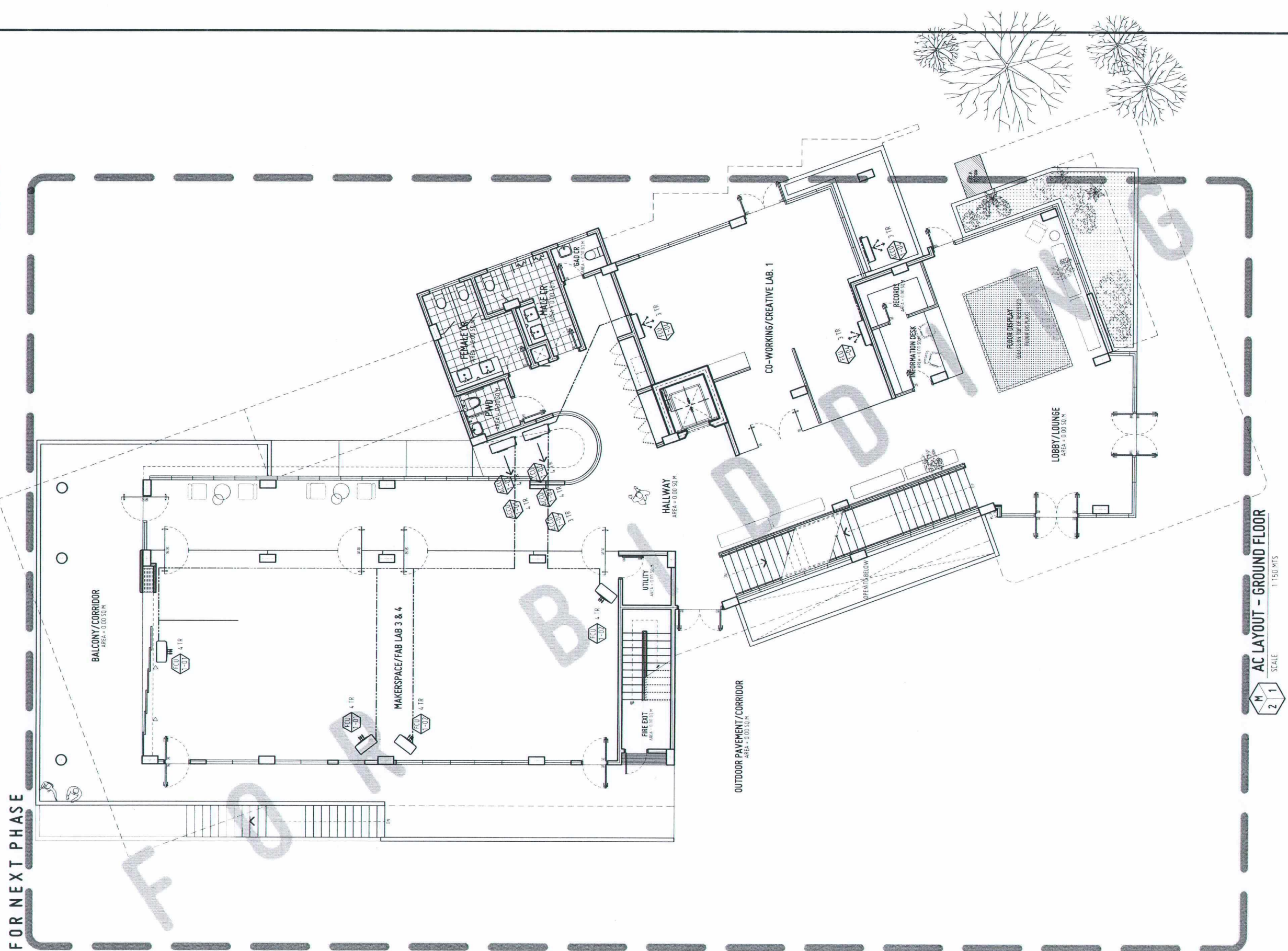
RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	DRAWN BY:
ENGR. GRACE C. BABA DIRECTOR, INFRASTRUCTURE PLANNING & FACILITY DEVELOPMENT OFFICE	DR. LORY LIZA D. BULAY-OG DIRECTOR, USTP ALUBIJID	ATTY. JONATHAN S. OCHE VP FOR ADMINISTRATION & LEGAL AFFAIRS	DR. AMBROSIO B. CULTURA II PRESIDENT, USTP SYSTEM		



NOTE:
LOWER GROUND LEVEL ONLY IS INCLUDED
IN THE CURRENT PHASE. ALL UPPER FLOORS ARE
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

MUNICIPALITY OF ALUBIJID
PROVINCE OF MISAMIS ORIENTAL
Approved by:



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PROFESSIONAL MECHANICAL ENGINEER		PROJECT
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DATE		OWNER
TIN NO.	PLACE	

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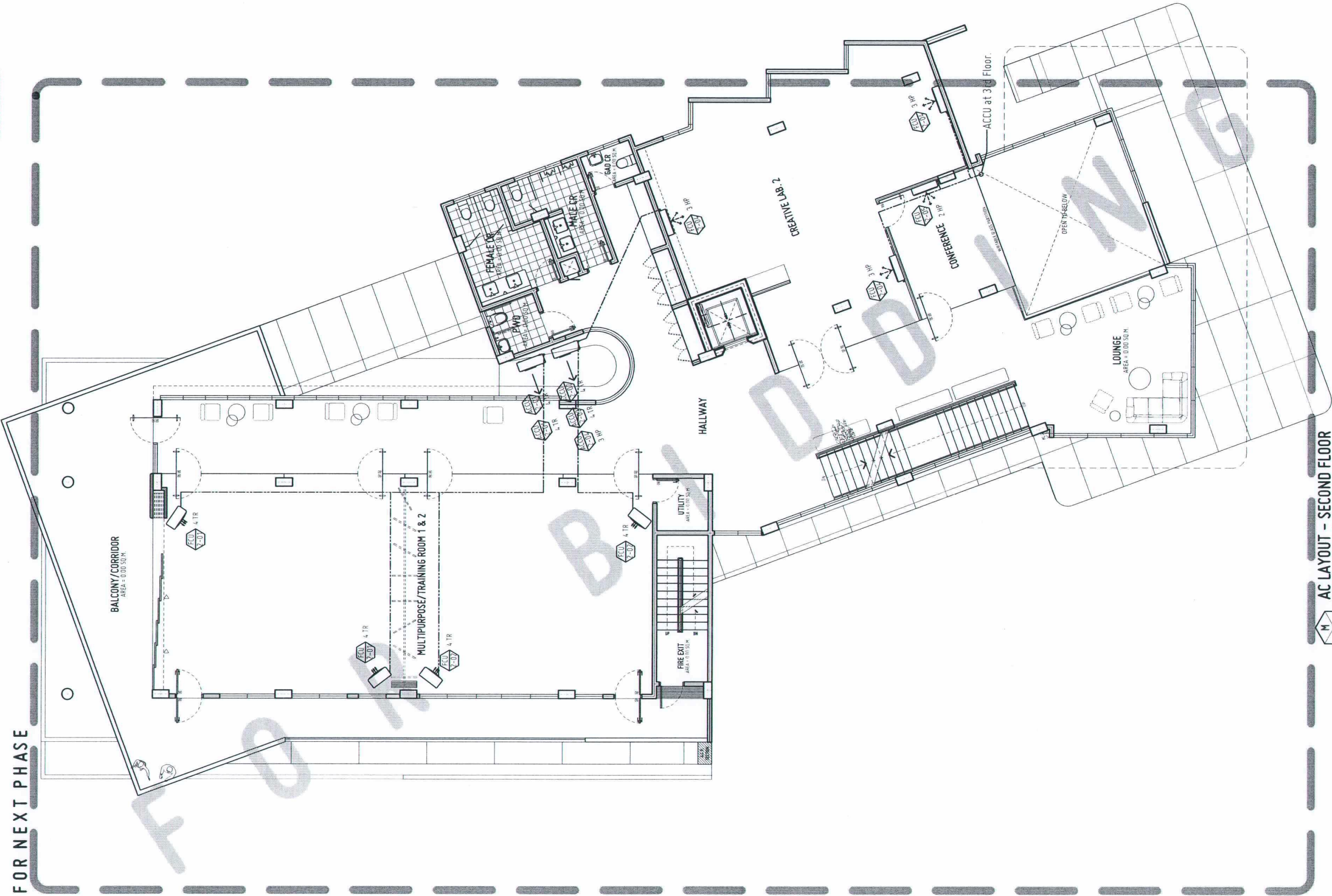
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DATE DRAWN:

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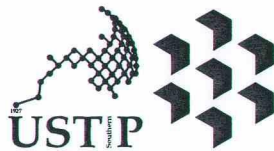


AC LAYOUT - SECOND FLOOR
SCALE 1:150 MTS

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DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

MUNICIPALITY OF ALUBUIJOD
PROVINCE OF MISAMIS ORIENTAL

Approved by:



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PROFESSIONAL MECHANICAL ENGINEER		PROJECT
PRC NO.	PTR NO.	LOCATION
DATE		DWNR
TIN NO.	PLACE	

CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBUIJOD (MAIN) CAMPUS
USTP AGILA S&T PARK, ALUBUIJOD, MISAMIS ORIENTAL
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

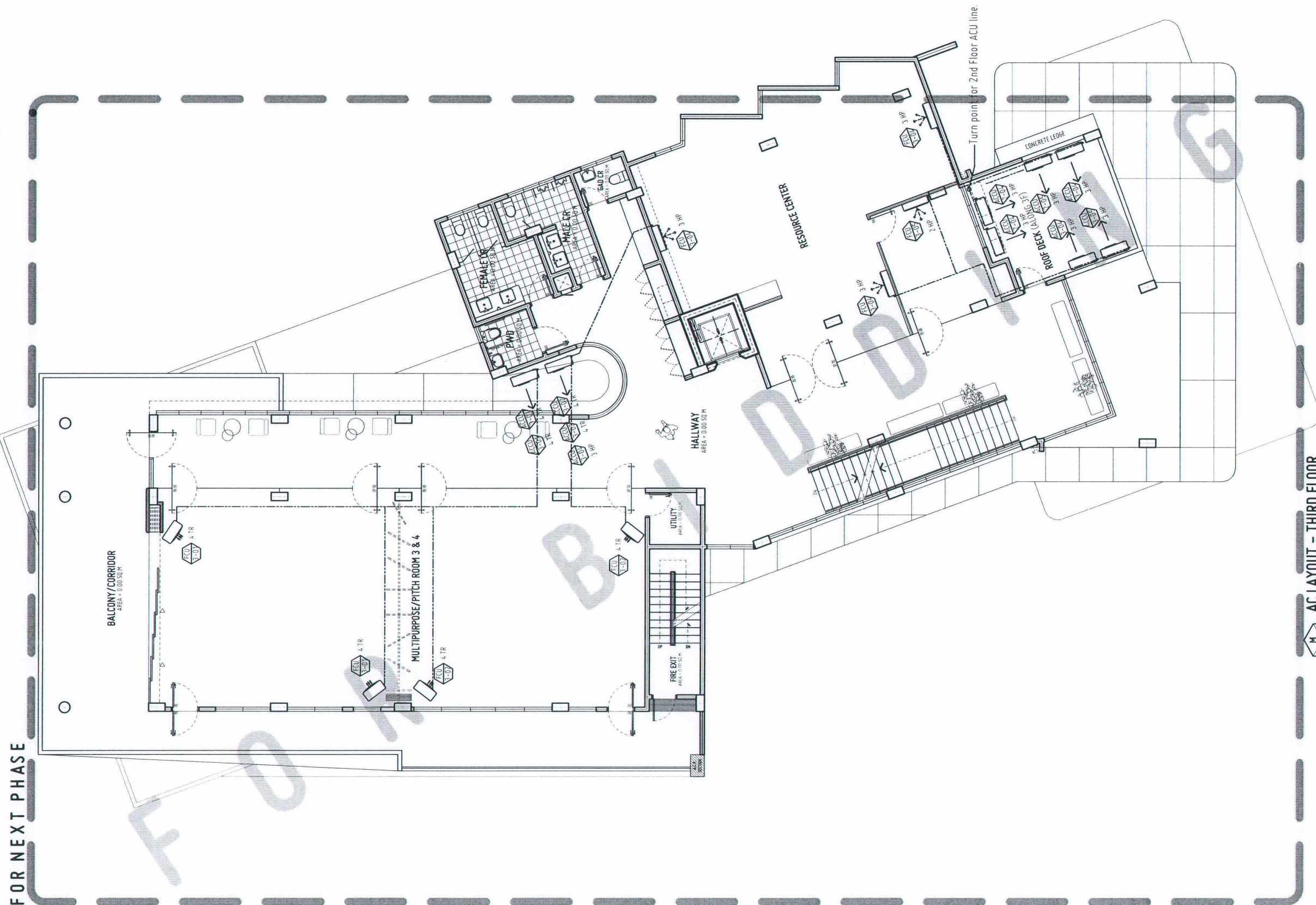
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ENGR. GRACE C. BABA	DR. LORY LIZA D. BULAY-OG	ATTY. JONATHAN S. OCHE	DR. AMBROSIO B. CULTURA II		
DIRECTOR, INFRASTRUCTURE PLANNING FACILITY DEVELOPMENT OFFICE	DIRECTOR, USTP ALUBUIJOD	VP FOR ADMINISTRATION & LEGAL AFFAIRS	PRESIDENT, USTP SYSTEM		

DATE DRAWN:	
FNT:	



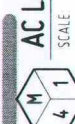
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Approved by:



AC LAYOUT - THIRD FLOOR

1:150 MTS



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PROFESSIONAL MECHANICAL ENGINEER		PROJECT	LOCATION	OWNER
PRC NO.	PTR NO.			
DATE	DATE	CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBUIJOD (MAIN) CAMPUS	USTP AGILA S&T PARK, ALUBUIJOD, MISAMIS ORIENTAL	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES
TIN NO.	PLACE			

RECOMMENDING APPROVAL:

ENGR. GRACE C. BABA

DIRECTOR, INFRASTRUCTURE PLANNING
& FACILITY DEVELOPMENT OFFICE

RECOMMENDING APPROVAL:

DR. LORY LIZA D. BULAY-06

DIRECTOR, USTP ALUBUIJOD

RECOMMENDING APPROVAL:

ATTY. JONATHAN S. OCHE

VP FOR ADMINISTRATION & LEGAL AFFAIRS

APPROVED BY:

DR. AMBROSIO B. CULTURA II

RESIDENT, USTP SYSTEM

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DATE DRAWN:

FNT:

M4

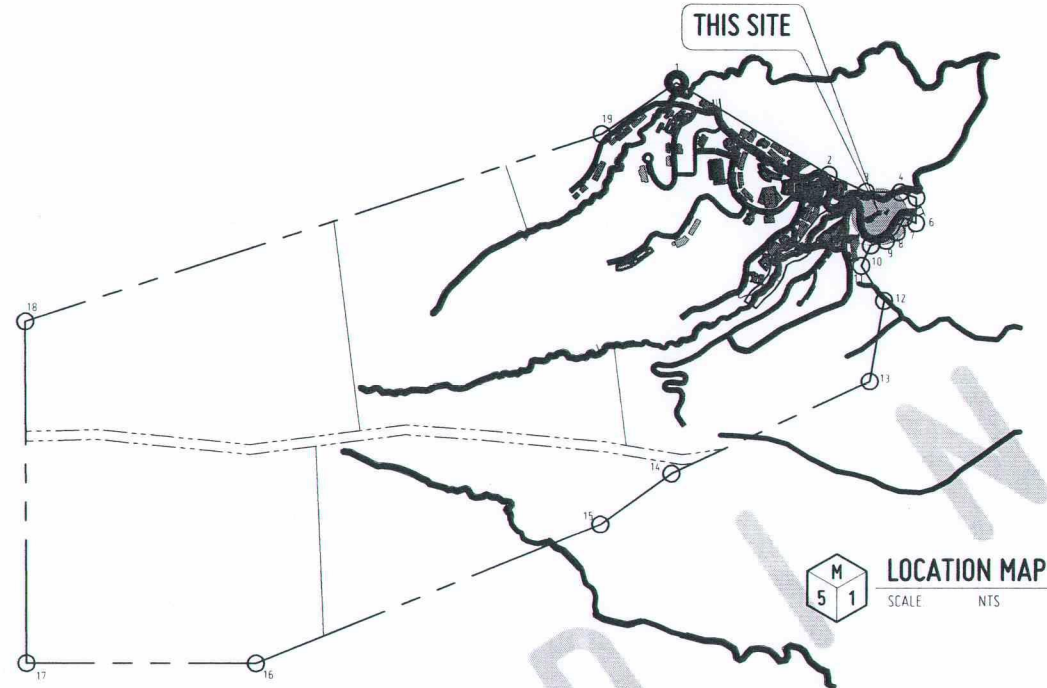
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GENERAL NOTES :

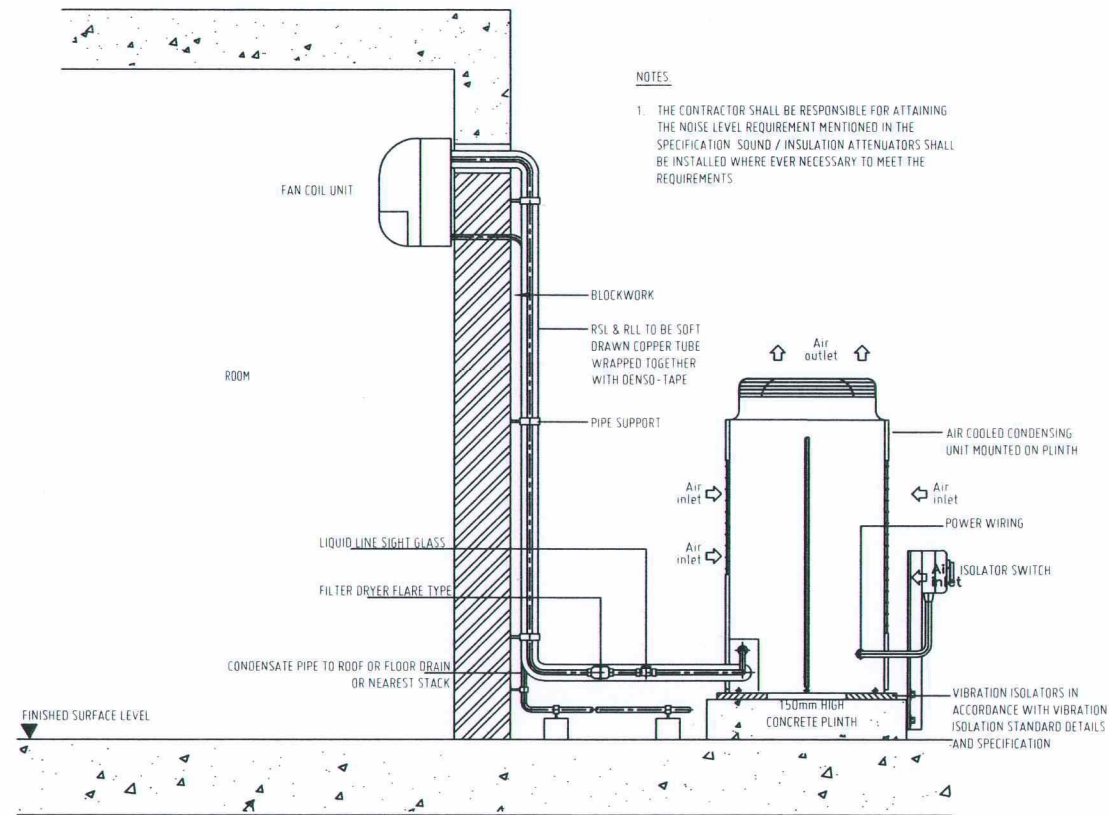
1. ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE PHILIPPINES NATIONAL BUILDING CODE, PSME CODE, PSVARE ASHRAE, SMACNA, FIRE CODE OF THE PHILIPPINES AND OTHER REGULATION OF THE LOCAL COMMUNITY.
2. THE TOTAL SCOPE OF WORKS SHALL INCLUDE ALL WORKS DESCRIBED IN THE PLANS LISTED IN THE TECHNICAL SPECIFICATIONS FOR MECHANICAL WORKS.
3. THE WORKS SHALL BE EXECUTED IN CLOSED COORDINATION WITH ALL OTHER TRADES.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, EQUIPMENT CATALOG, SAMPLES OF ALL THE MATERIAL TO BE USED BEFORE EXECUTION OF THE WORKS.
5. THE CONTRACTOR OR SUPPLIER SHALL INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
6. ALL PIPE AND DUCT PENETRATION SHALL BE CAULKED WITH FIRE SEALANT.
7. ALL EQUIPMENT REST ON SLAB AND CEILING SHALL BE PROVIDED WITH VIBRATION ISOLATOR TO PREVENT VIBRATION AND NOISE TRANSMISSION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE PAD AND SUPPORT OF ALL MECHANICAL EQUIPMENT.
9. THE CONTRACTOR SHALL ARRANGED THE PIPING, DUCTING AND EQUIPMENT TO HAVE EASY ACCESS FOR REMOVING, CLEANING AND SERVICING WITHOUT DISMANTLING THE SYSTEM.
10. ALL POWER WIRING UP TO SPLICE BOX SHALL BE THE ELECTRICAL CONTRACTOR FROM SPLICE BOX TO THE EQUIPMENT BY MECHANICAL CONTRACTOR.
11. PROVIDE AND INSTALL CONTROLS AND CONTROL WIRINGS FOR ALL AIR-CONDITIONING EQUIPMENT.
12. PROVIDE THERMOSTAT TO ALL INDOOR UNITS.
13. PROVIDE SEPARATE CONDENSER DRAIN RISER.
14. PIPE ALL EQUIPMENT DRAIN TO THE NEAREST FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BALANCING, TESTING AND COMMISSIONING OF THE WHOLE AIR CONDITIONING, VENTILATION SYSTEM AND SUBMIT WRITTEN DATA PRIOR TO TURN OVER.
16. WORKMANSHIP: THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST & MOST THOROUGH MANNER KNOWN TO TRADE & TO THE SATISFACTION OF THE ARCHITECT AND THE ENGINEER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT/LOCAL CONSTRUCTION AND OPERATION PERMITS AND PAY ALL THE REQUIRED FEES.
18. ALL ACCU ON GROUND FLOOR SHALL BE PAD MOUNTED.

NOTES ON PIPING INSTALLATION:

1. REFRIGERANT PIPES SHALL BE INTERNALLY CLEANED BY SWABBING WITH CLEAN COTTON CLOTH TO REMOVE ALL DUST, BURRS, AND OTHER MISCELLANEOUS DIRT.
2. WHILE SOLDERING JOINTS, A SWEEP OF INERT NITROGEN GAS SHOULD BE PASSED THROUGH PIPES TO PREVENT OXIDATION DEPOSITS INSIDE.
3. FITTINGS:
 - A. USE STANDARD LONG RADIUS COPPER ELBOWS, REDUCERS, ETC. DO NOT USE FIELD-FORMED ELBOWS, REDUCERS, ETC.
 - B. JOINTS BETWEEN PIPES SHOULD BE THROUGH STANDARD COPPER COUPLING FORMED FITTING MADE BY SWAGING OR ENLARGING ONE PIPE END TO BE ABLE TO RECEIVE THE OTHER PIPE SECTION WOULD NOT BE ALLOWED.
 - C. JOINTS TO SCREWED ACCESSORIES SUCH AS EXPANSION VALVES, FILTER DRIER, ETC. SHALL BE MADE WITH STANDARD FLARED FITTINGS.
4. THE COMPLETED PIPING INSTALLATION SHOULD BE LEAK TESTED BY SUBJECTING THE SAME (BOTH LIQUID AND SUCTION LINE) TO A PRESSURE OF 3100 Pa USING DRY NITROGEN GAS. THIS PRESSURE SHOULD BE LEFT FOR 24 HOURS AND IF THERE IS NO NOTICEABLE REDUCTION IN PRESSURE WITHIN THE PERIOD, THE NITROGEN CHARGE SHALL BE RELIEVED DOWN TO 140KPa. TO SERVE AS HOLDING CHARGE WHILE WAITING FOR THE EQUIPMENT CONNECTION. IF THERE IS NOTICEABLE REDUCTION IN THE TEST PRESSURE, LEAK SHOULD BE LOCATED AND REPAIRED.
5. PROPERLY TESTED PIPING SHOULD BE SECURELY CAPPED AT BOTH ENDS AND WITH HOLDING CHARGED AS STATED IN ITEM 4 ABOVE WHILE WAITING FOR FINAL CONNECTION TO EQUIPMENT. INSULATE SUCTION PIPING ONLY AFTER PROPER LEAK TESTING.



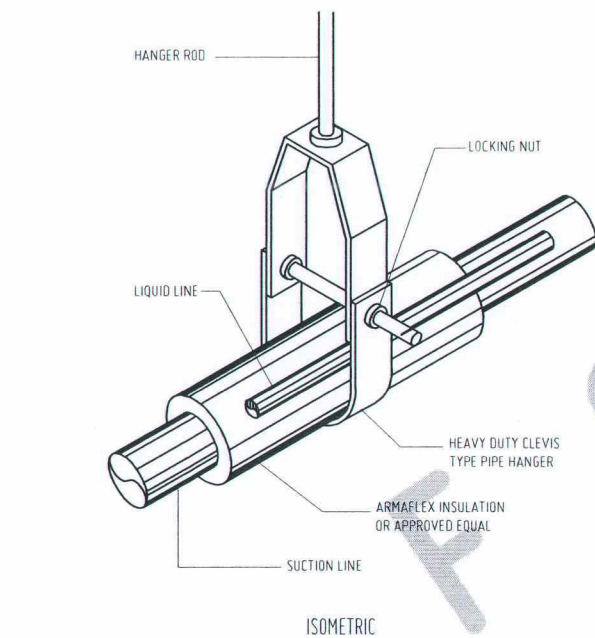
LOCATION MAP
SCALE NTS



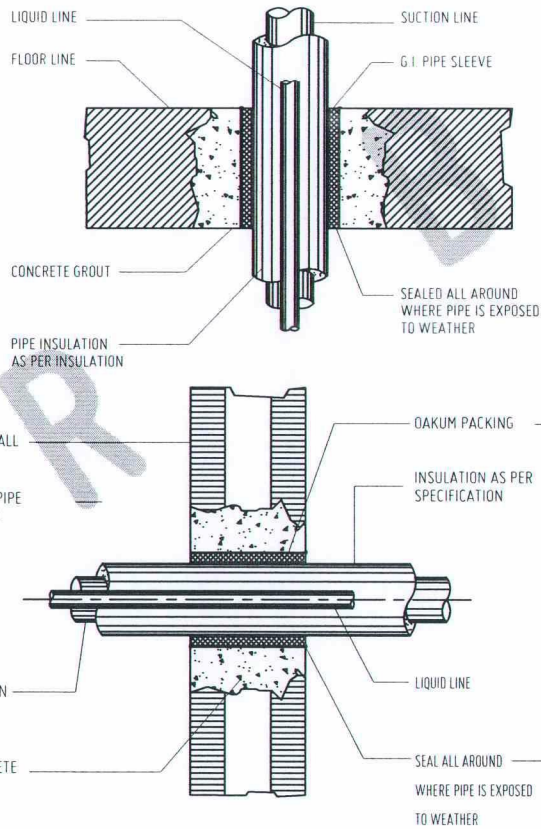
NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTAINING THE NOISE LEVEL REQUIREMENT MENTIONED IN THE SPECIFICATION. SOUND / INSULATION ATTENUATORS SHALL BE INSTALLED WHERE EVER NECESSARY TO MEET THE REQUIREMENTS.

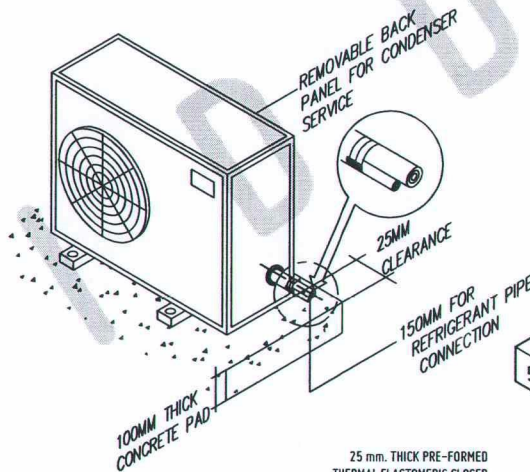
TYPICAL SPLIT-TYPE CONNECTION DETAIL
M 5 2 NTS



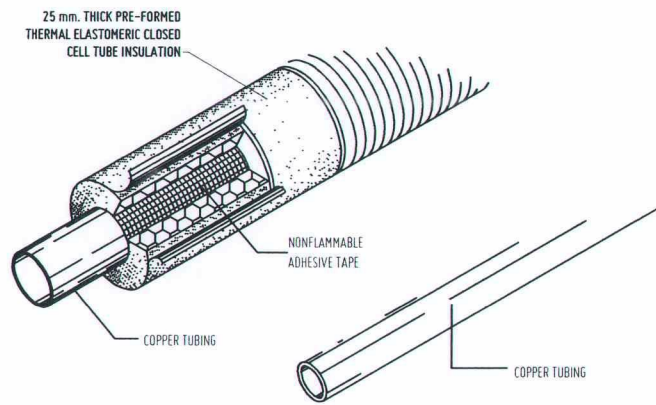
REFRIGERANT PIPE HANGER DETAIL
M 5 4 NTS



REFRIGERANT PIPE THRU WALL DETAIL
M 5 5 NTS



ACCU MOUNTING DETAIL
M 5 3 NTS



NOTE

1. CONDENSATE DRAIN PIPE INSULATION SHALL BE OF SIMILAR MATERIAL BUT 19 mm. THICK.
2. PROVIDE ALUMINUM CLADDING FOR OUTDOOR REFRIGERANT PIPING.

REFRIGERANT PIPE INSULATION DETAIL
M 5 6 NTS

SHEET CONTENTS:

DRAWN BY:

DATE DRAWN:

PRINT:

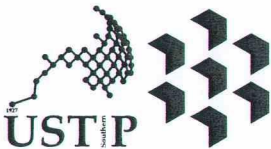
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MARK NO.		QTY	TYPE	LOCATION	CAPACITY	UNIT	SUPPLY FAN		OPERATING TEMPERATURE					COMPRESSOR DATA				REFRIGERANT DATA
						HP/TR	AIR FLOW	MOTOR	E.A.T.	EVAPORATING		CONDENSING		MOTOR INPUT (KW)	V	PH	HZ	
OUTDOO	INDOOF						LPS	WATTS	deg.C	deg.C	deg.F	deg.C	deg.F					
ACCU 1-01	FCU B-01	2	Floor Mounted	B- Fablab 1	4.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	10.77	230	1	60	R410 OR APPROVE EQUAL
ACCU 1-02	FCU B-02	2	Floor Mounted	B- Fablab 2	4.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	19.75	230	1	60	R410 OR APPROVE EQUAL
ACCU 2-01	FCU 1-01	2	Floor Mounted	GF- Fablab 1	4.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	6.50	230	1	60	R410 OR APPROVE EQUAL
ACCU 2-02	FCU 1-02	2	Floor Mounted	GF- Fablab 2	4.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	13.11	230	1	60	R410 OR APPROVE EQUAL
ACCU 2-04	FCU 1-04	2	Wall Mounted	GF- Creative Lab	3.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	30.29	230	1	60	R410 OR APPROVE EQUAL
ACCU 3-01	FCU 2-01	2	Floor Mounted	2F- Training Room 1	4.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	6.27	230	1	60	R410 OR APPROVE EQUAL
ACCU 3-02	FCU 2-02	2	Floor Mounted	2F- Training Room 2	4.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	15.27	230	1	60	R410 OR APPROVE EQUAL
ACCU 3-04	FCU 2-04	3	Wall Mounted	2F- Creative Lab	3.0	HP	VARIABLE	VARIABLE	37	4.44	40	48.8	120	18.13	230	1	60	R410 OR APPROVE EQUAL
ACCU 3-05	FCU 2-05	1	Wall Mounted	2F- Conference	2.0	HP	VARIABLE	VARIABLE	37	4.44	40	48.8	120	18.38	230	1	60	R410 OR APPROVE EQUAL
ACCU 4-01	FCU 3-01	2	Floor Mounted	3F- Training Room 1	4.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	6.27	230	1	60	R410 OR APPROVE EQUAL
ACCU 4-02	FCU 3-02	2	Floor Mounted	3F- Training Room 2	4.0	TR	VARIABLE	VARIABLE	37	4.44	40	48.8	120	15.27	230	1	60	R410 OR APPROVE EQUAL
ACCU 4-04	FCU 3-04	3	Wall Mounted	3F- Creative Lab	3.0	HP	VARIABLE	VARIABLE	37	4.44	40	48.8	120	18.13	230	1	60	R410 OR APPROVE EQUAL



EQUIPMENT SCHEDULE

NTS



REPUBLIC OF THE PHILIPPINES
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES
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PROFESSIONAL MECHANICAL ENGINEER
PRC NO. PTR NO.
DATE
TIN NO. PLACE

PROJECT
LOCATION
OWNER

CONSTRUCTION OF
INNOVATION AND COLLABORATION HUB PHASE II,
ALUBUIJID (MAIN) CAMPUS
USTP AGILA S&T PARK, ALUBUIJID, MISAMIS ORIENTAL
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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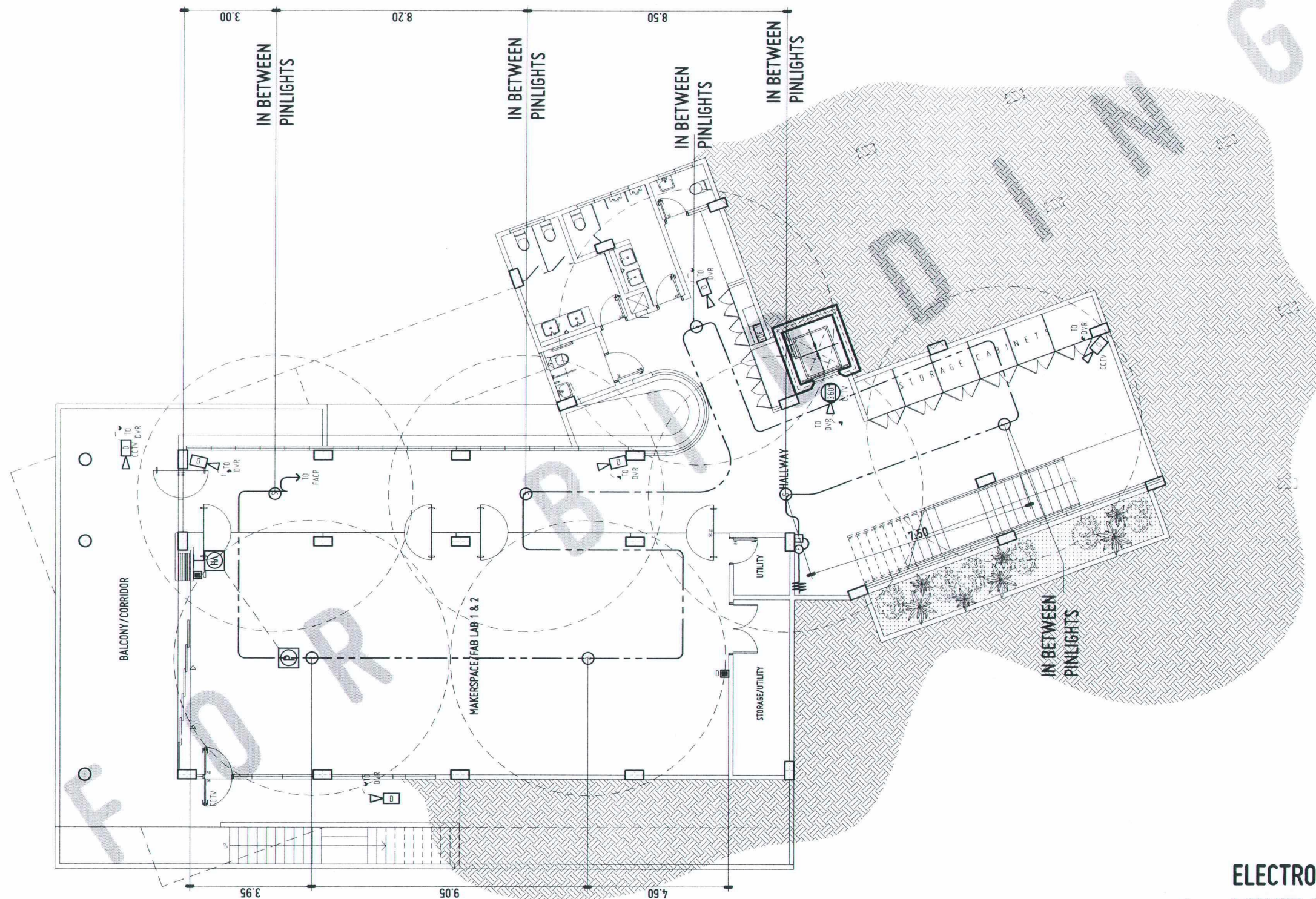
RECOMMENDING APPROVAL:
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VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:

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DATE DRAWN:
FNT:

M6



ELECTRONICS SYSTEM LAYOUT LOWER GROUND LEVEL



SCALE: 1:150 MTS



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PROFESSIONAL ELECTRONICS ENGINEER
PRC NO. PTR NO.
DATE PLACE
TIN NO.

PROJECT
CONSTRUCTION OF
INNOVATION AND COLLABORATION HUB PHASE II,
ALUBIJID (MAIN) CAMPUS
LOCATION
USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL
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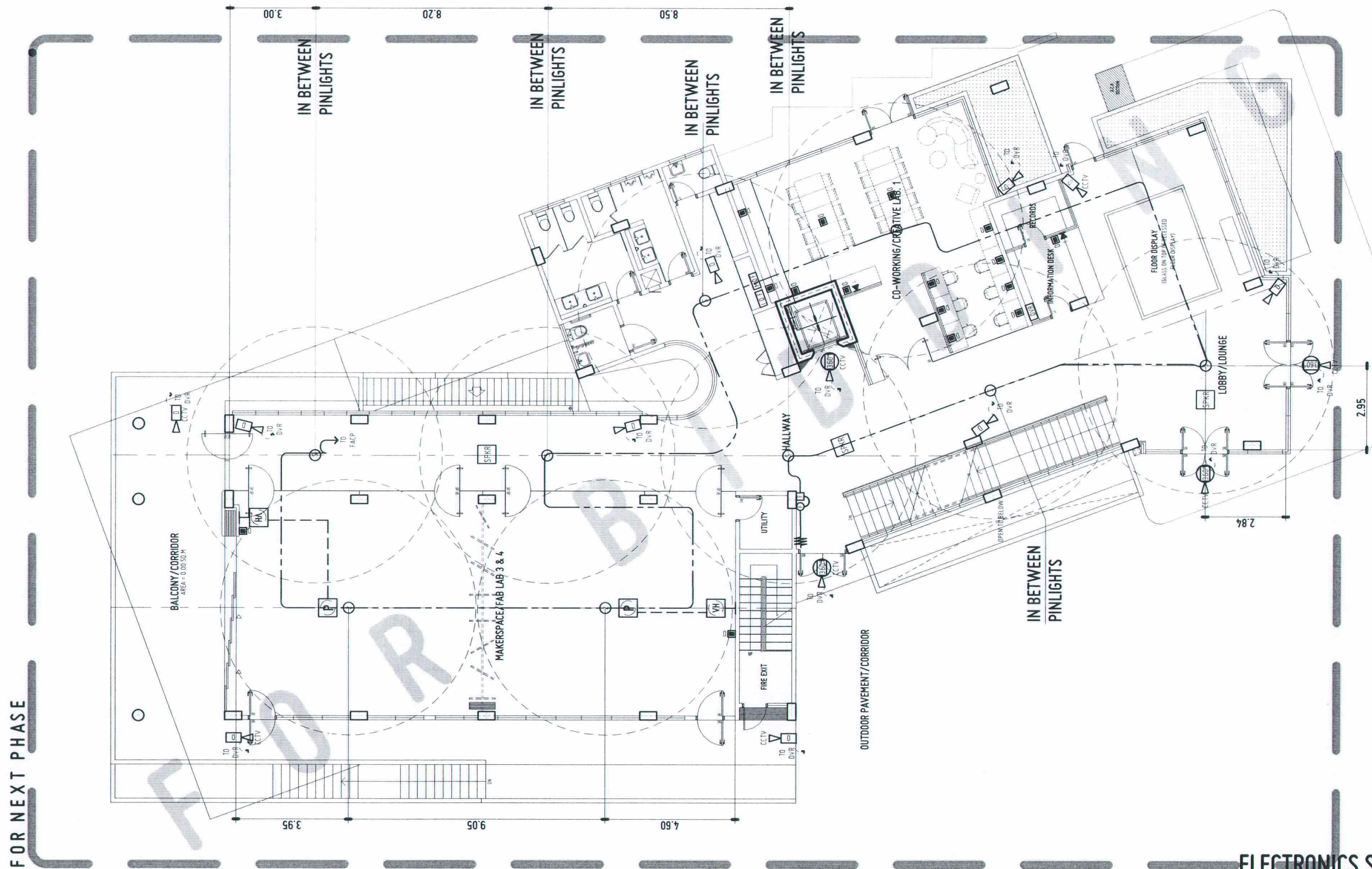
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APPROVED BY:
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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
ELECTRONICS SYSTEM
LAYOUT:
LOWER GROUND LEVEL

DRAWN BY:
MAXFER
DATE DRAWN:
FNT:

AUX1

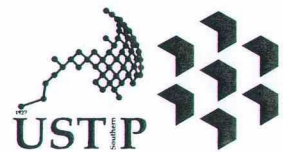


ELECTRONICS SYSTEM LAYOUT
GROUND FLOOR

AUX
2 1

SCALE:

1:150 MTS



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PROFESSIONAL ELECTRONICS ENGINEER	
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DATE	PLACE
TIN NO.	

PROJECT	CONSTRUCTION OF INNOVATION AND COLLABORATION HUB PHASE II, ALUBIJID (MAIN) CAMPUS
LOCATION	USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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

RECOMMENDING APPROVAL:
DR. LORY LIZA D. BULAY-OG DIRECTOR, USTP ALUBIJID

RECOMMENDING APPROVAL:
ATTY. JONATHAN S. OCHE VP FOR ADMINISTRATION & LEGAL AFFAIRS

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

SHEET CONTENTS:
ELECTRONICS SYSTEM LAYOUT: GROUND FLOOR

DRAWN BY:
MAXFER
DATE DRAWN:
INT:

AUX2