

Approved by:

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FOR NEXT PHASE

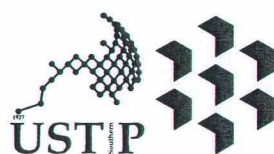
STORM DRAIN LAYOUT PLAN

THIRD FLOOR

P
12
1

SCALE:

1:150 MTS



REPUBLIC OF THE PHILIPPINES
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.ustip.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-06
DIRECTOR, USTP ALUBIJID

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

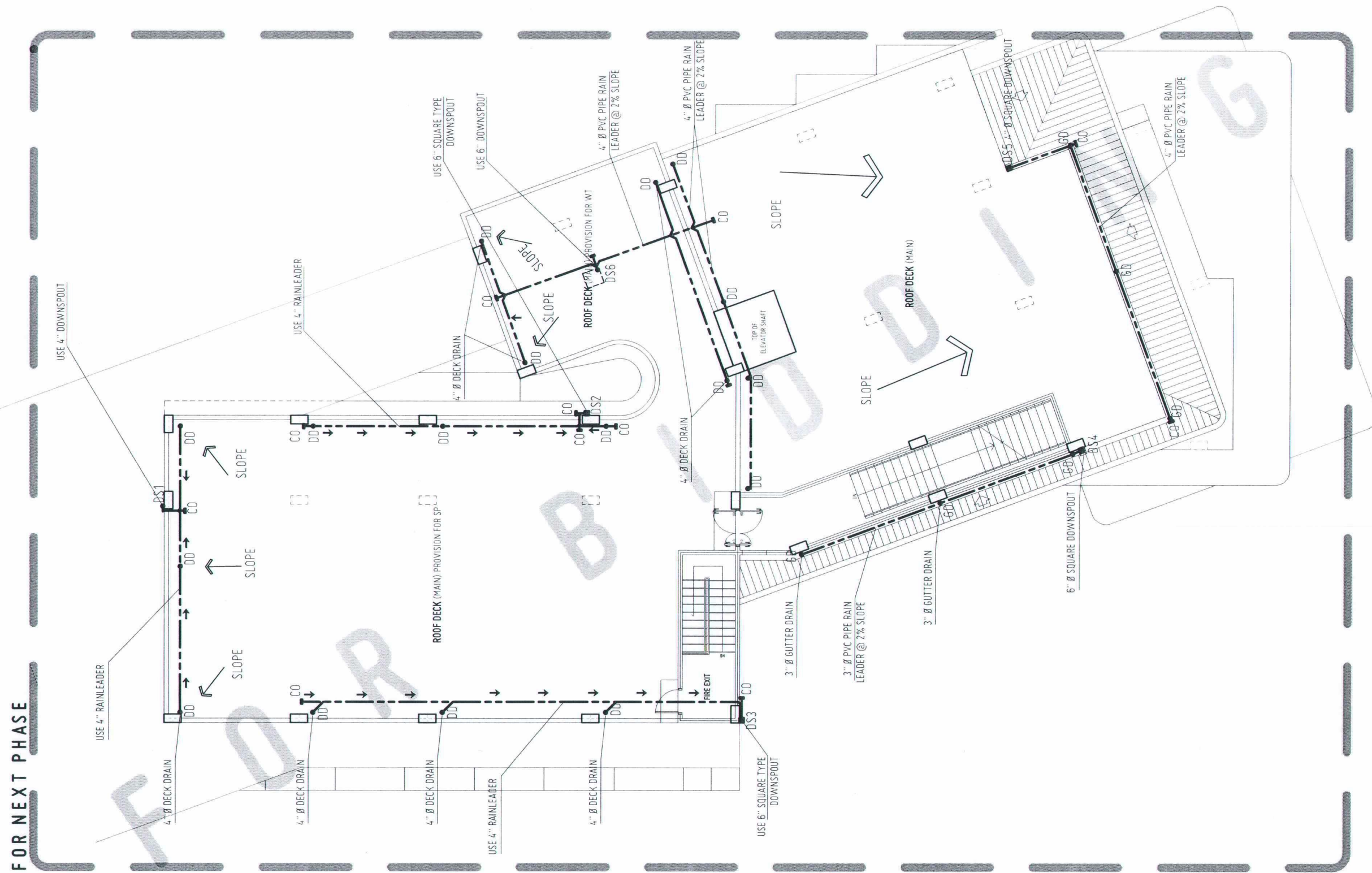
APPROVED BY:
DR. AMBROSIO S. CULTURA II
PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
STORM DRAIN
LAYOUT PLAN:
-THIRD FLOOR

DRAWN BY:
DATE DRAWN:
FNT:

P12

Approved by:

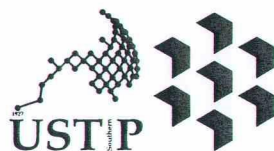


STORM DRAIN LAYOUT PLAN

ROOF DECK

SCALE: 1:150 MTS

P
13
1



REPUBLIC OF THE PHILIPPINES
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LOCATION	USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL
OWNER	UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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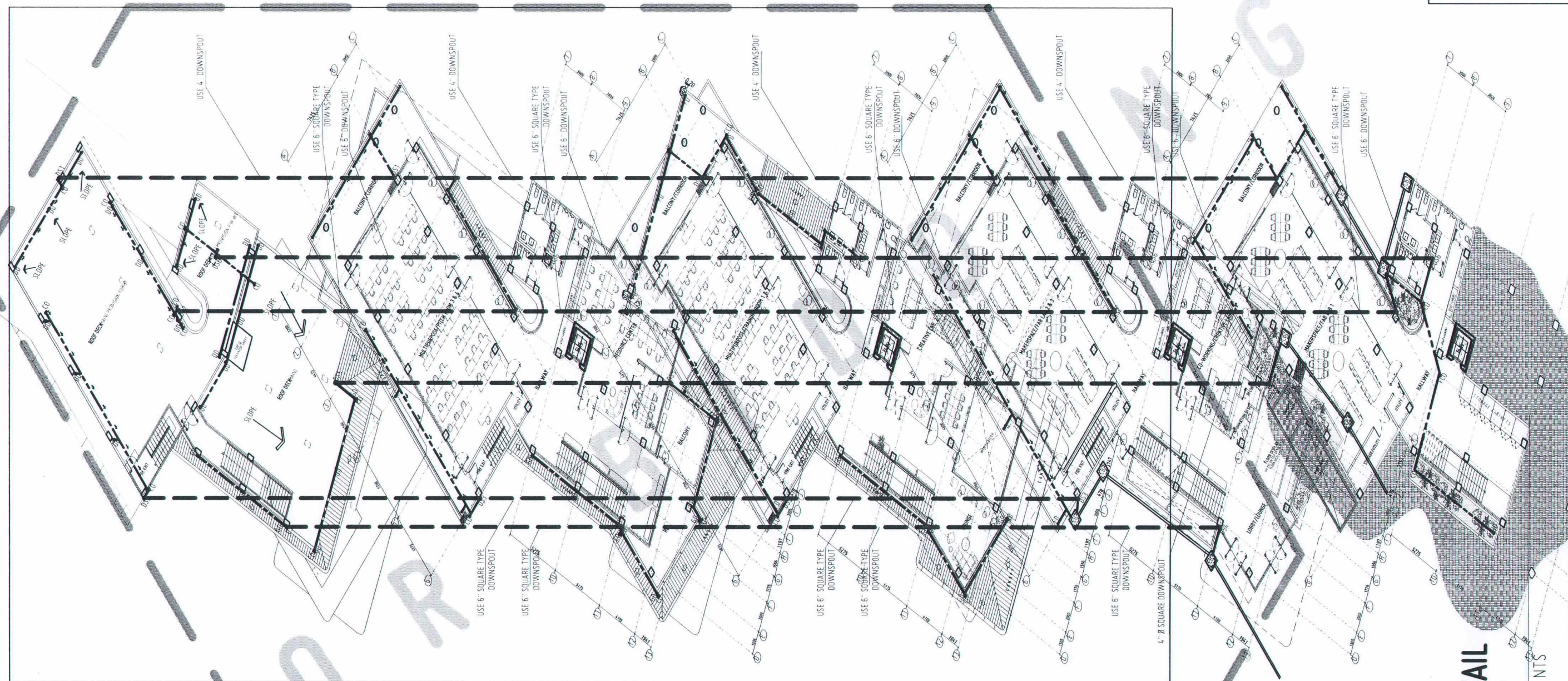
APPROVED BY:
DR. AMBROSIO B. CULTURA II PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
STORM DRAIN
LAYOUT PLAN:
-FOURTH FLOOR

DRAWN BY:
DATE DRAWN:
FNT:

P13

Approved by:



FOR NEXT PHASE

ISOMETRIC DETAIL

STORM DRAIN LAYOUT

SCALE:

NTS

P
14
1

P14



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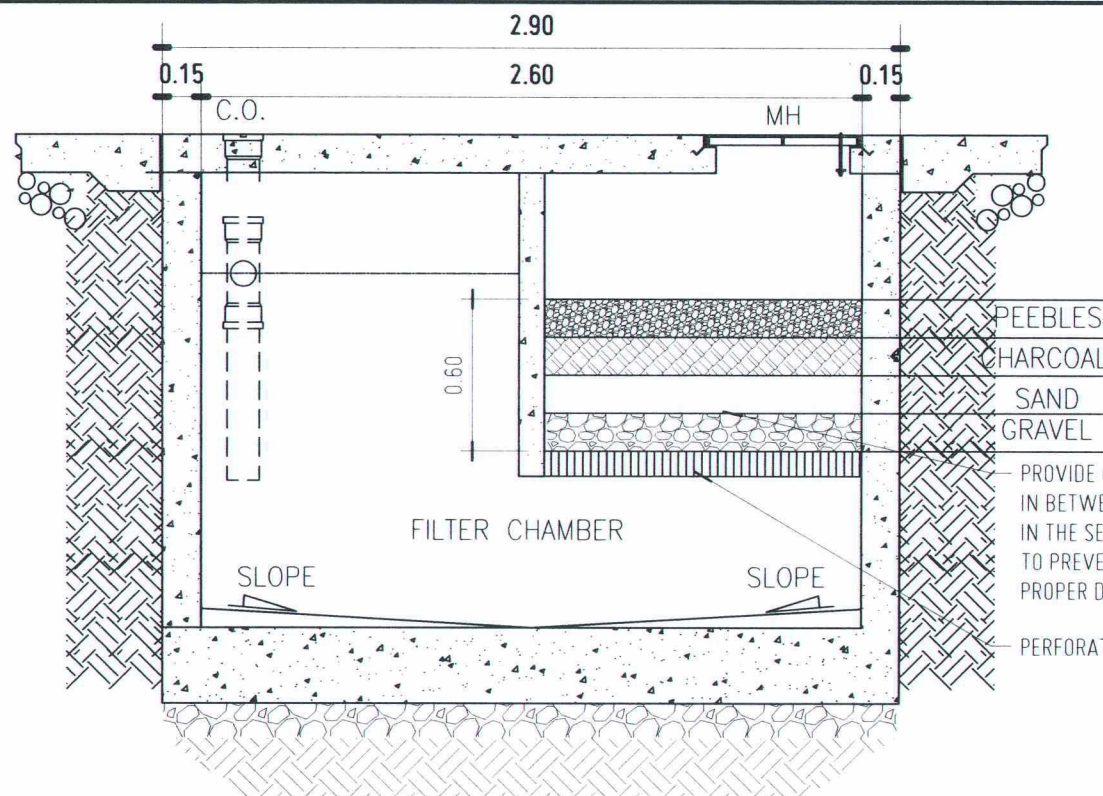
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SHEET CONTENTS:
STORM DRAIN
LAYOUT PLAN:
-FIFTH FLOOR

DRAWN BY:
DATE DRAWN:
ENT:



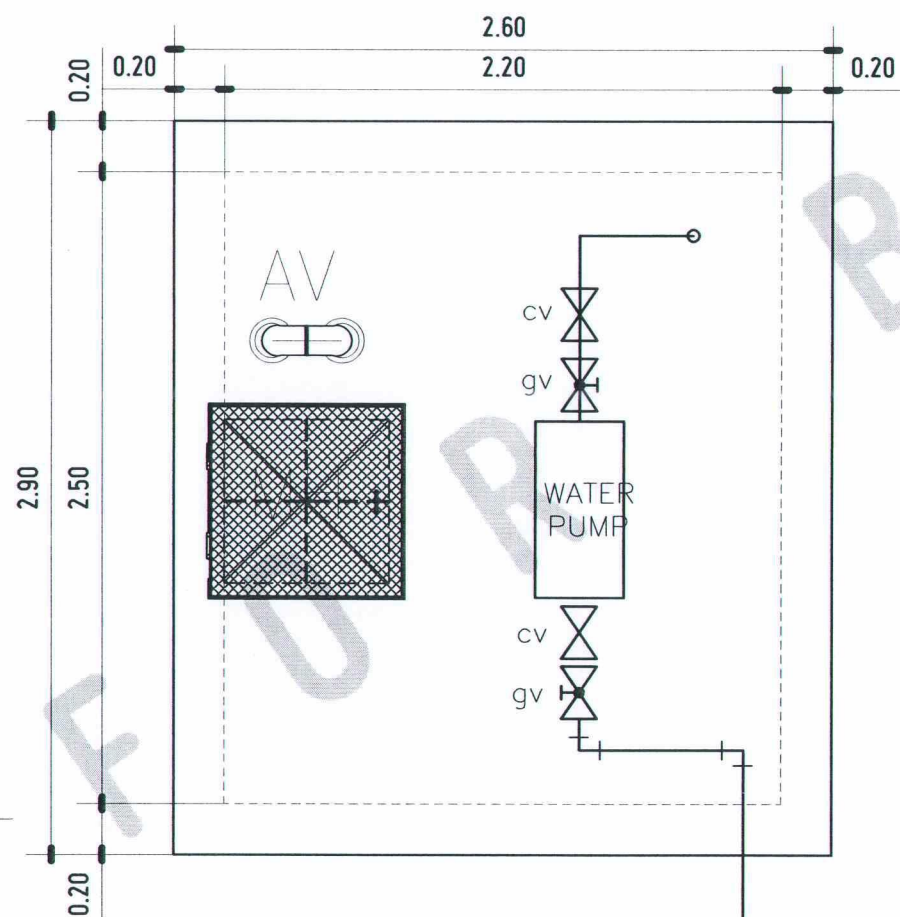
CROSS SECTION DETAIL SEPTIC TANK



SCALE: 1:30 MTS

PEEBLES
CHARCOAL
SAND
GRAVEL
— PROVIDE GEOTEXTILE FABRIC
IN BETWEEN GRAVEL AND SAND LAYERS
IN THE SEPTIC TANK FILTRATION BED
TO PREVENT SILT MIGRATION AND MAINTAIN
PROPER DRAINAGE PERFORMANCE.

PERFORATED SLAB OF 5mm Ø HOLE



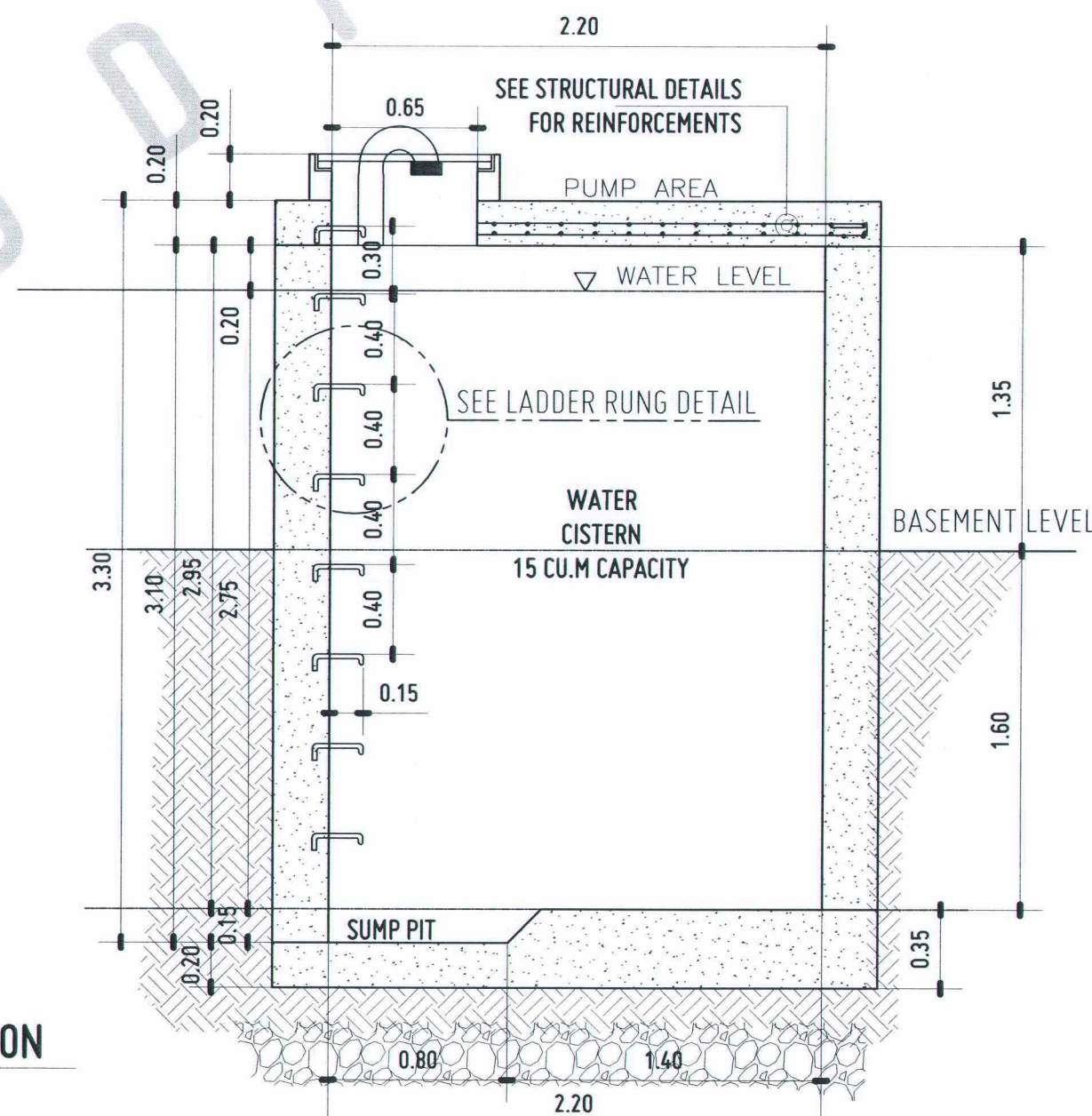
PLAN



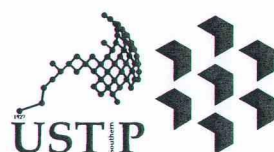
WATER CISTERN TANK DETAILS



SCALE: 1:30 MTS



SECTION



REPUBLIC OF THE PHILIPPINES
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ALUBIJID (MAIN) CAMPUS
USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL
UNIVERSITY OF SCIENCE & TECHNOLOGY OF SOUTHERN PHILIPPINES

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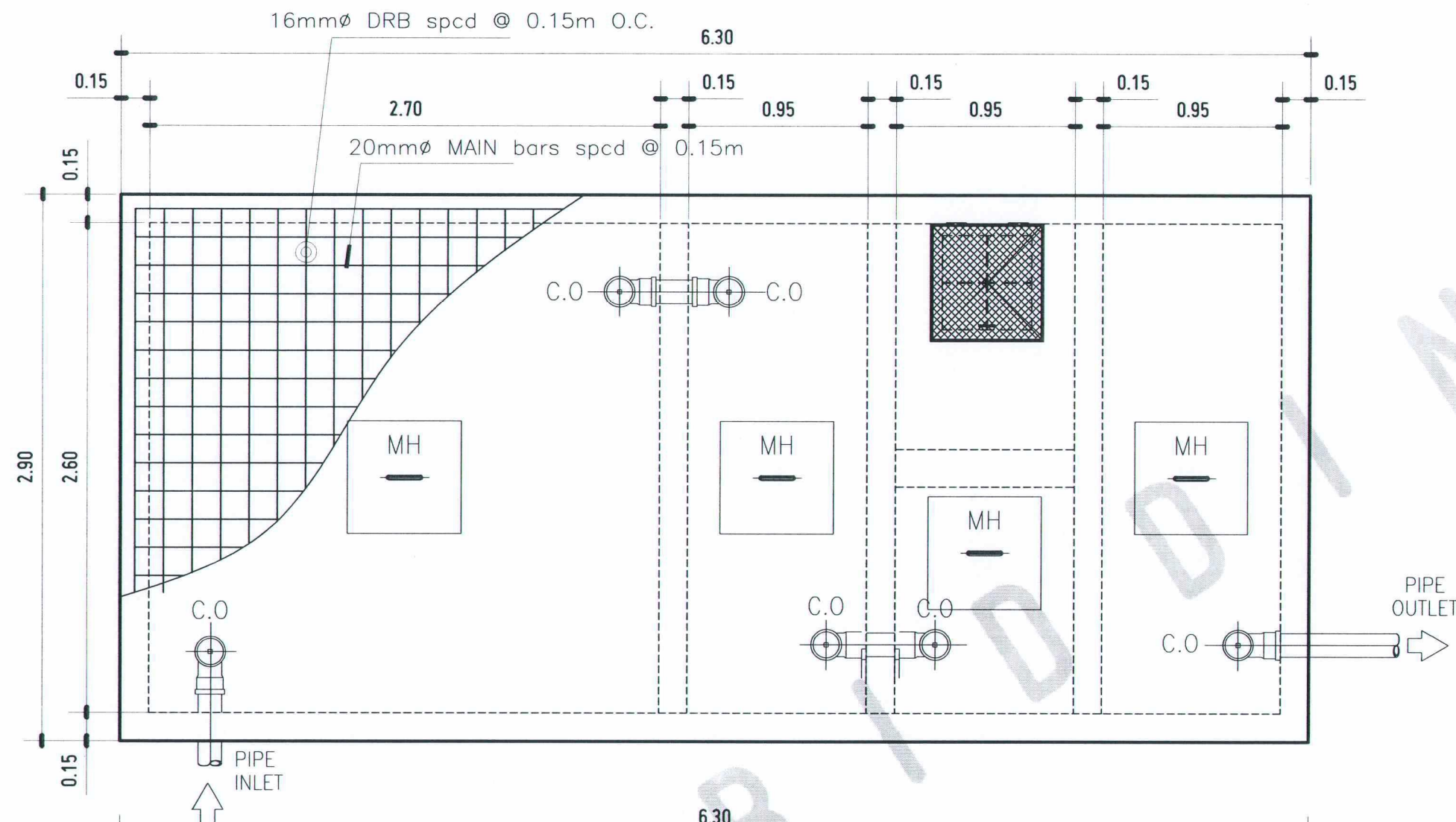
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PRESIDENT, USTP SYSTEM

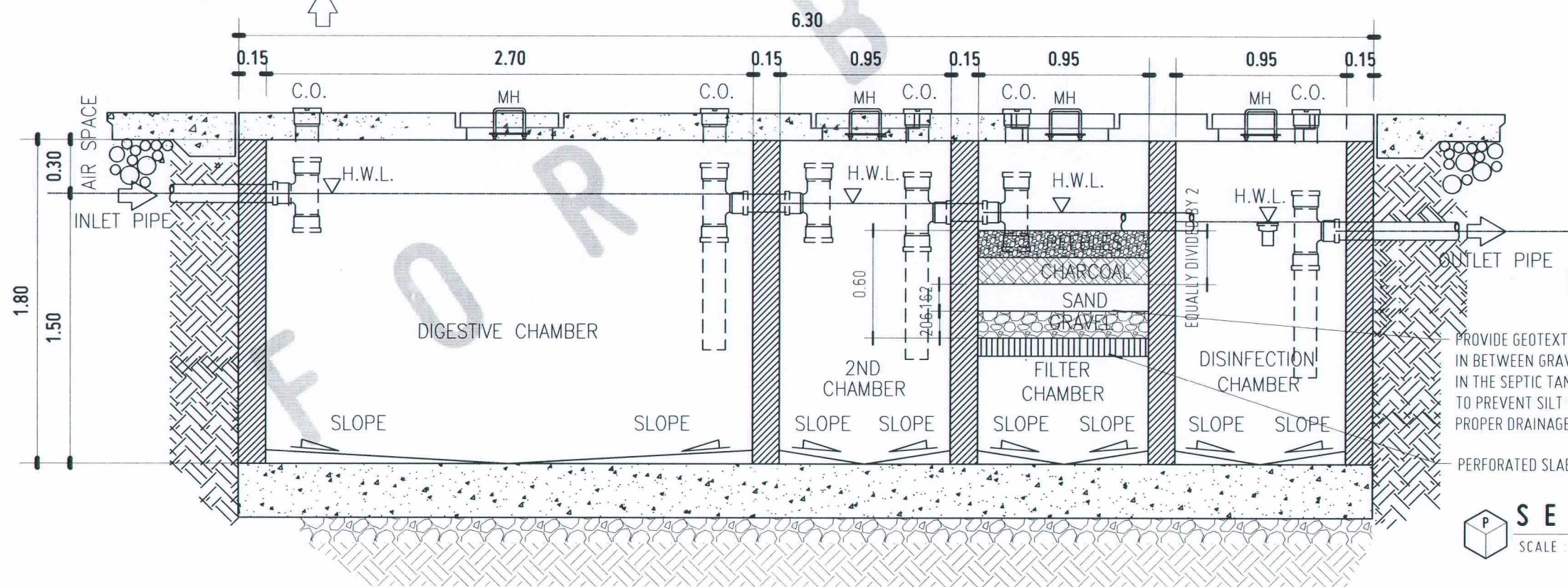
SHEET CONTENTS:
CROSS SECTION DETAIL
SEPTIC TANK
WATER CISTERN TANK
DETAILS
PLAN & SECTION

DRAWN BY:
DATE DRAWN:
FNT:

P15



P 16 1
BLOW-UP PLAN DETAIL



P 16 2
LONGITUDINAL SECTION DETAIL

PROVIDE GEOTEXTILE FABRIC
IN BETWEEN GRAVEL AND SAND LAYERS
IN THE SEPTIC TANK FILTRATION BED
TO PREVENT SILT MIGRATION AND MAINTAIN
PROPER DRAINAGE PERFORMANCE.

PERFORATED SLAB OF 5mm Ø HOLE

P
SEPTIC TANK DETAILS
SCALE: 1:30 MTS



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TIN NO. _____

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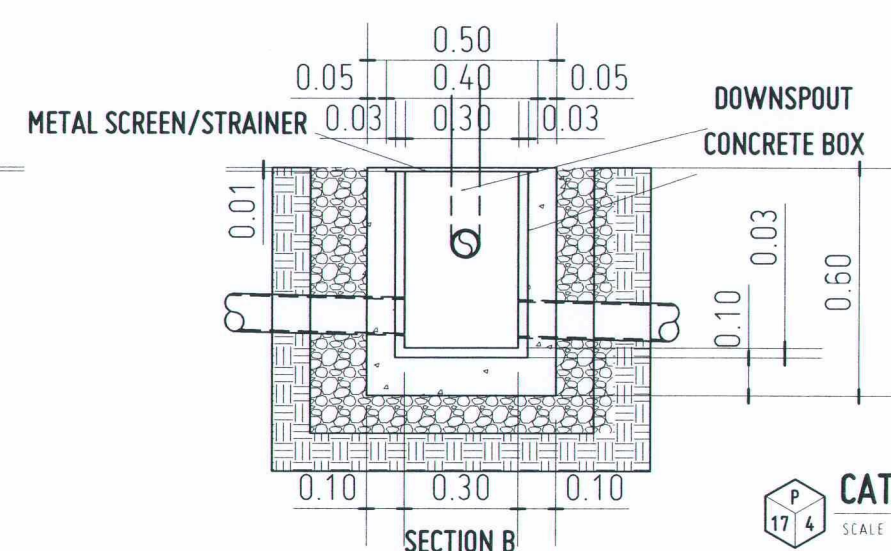
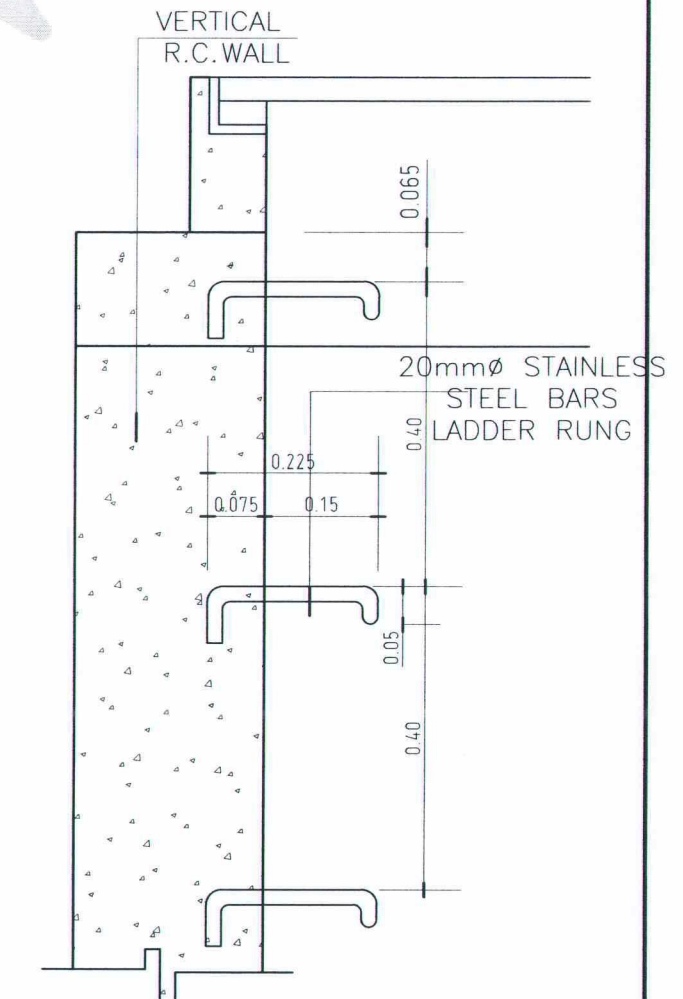
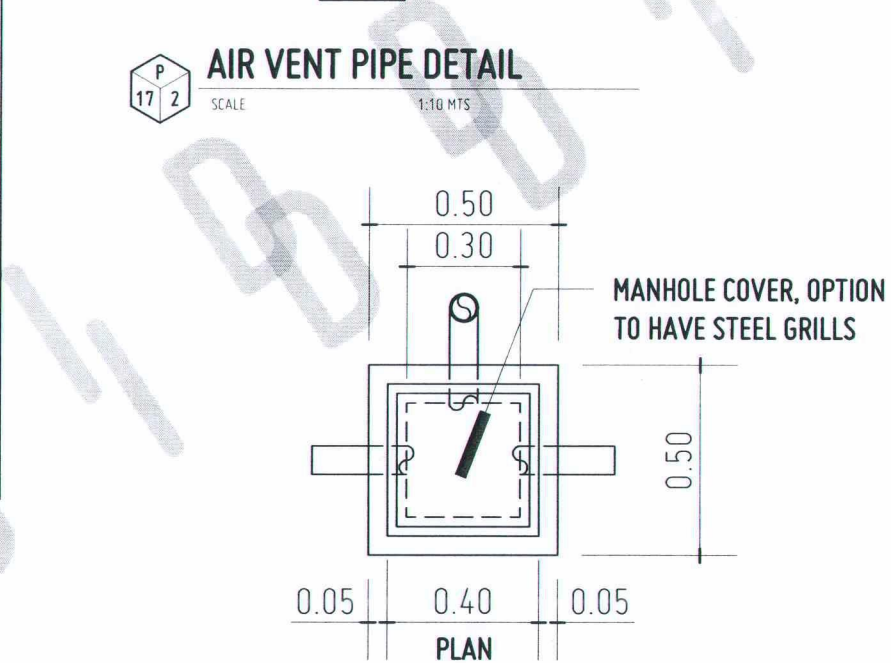
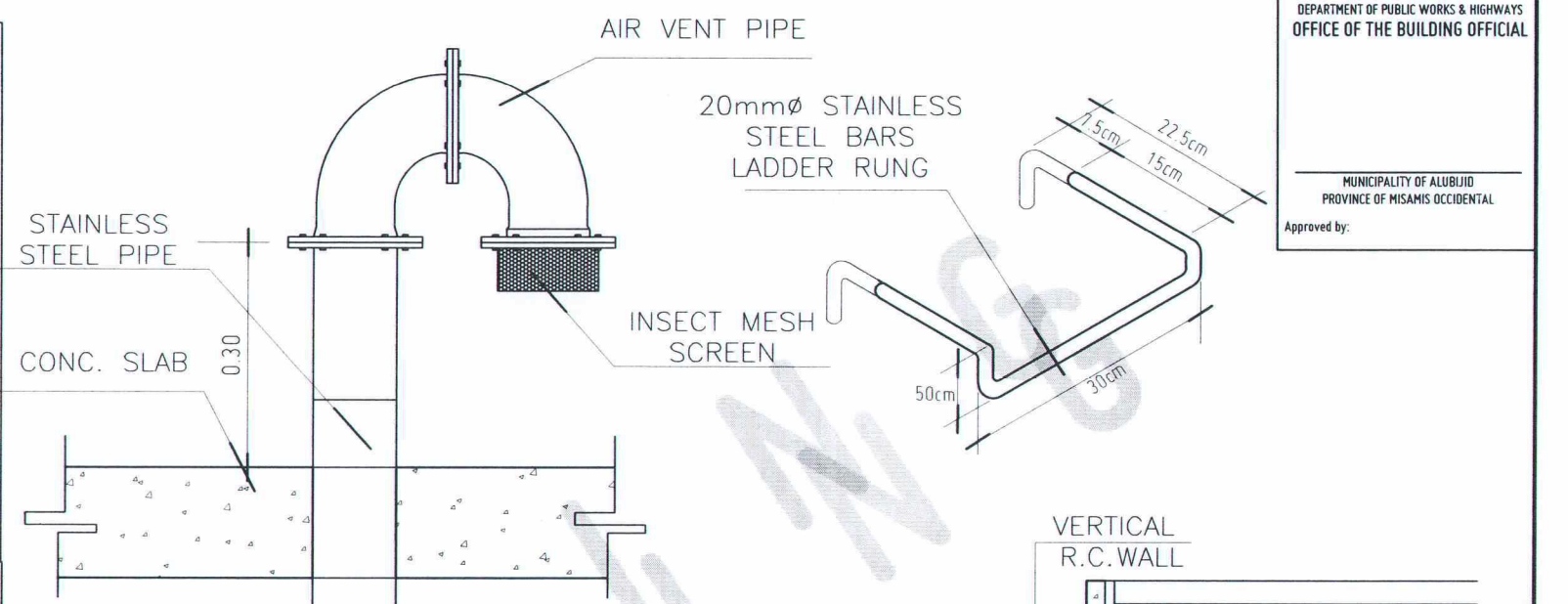
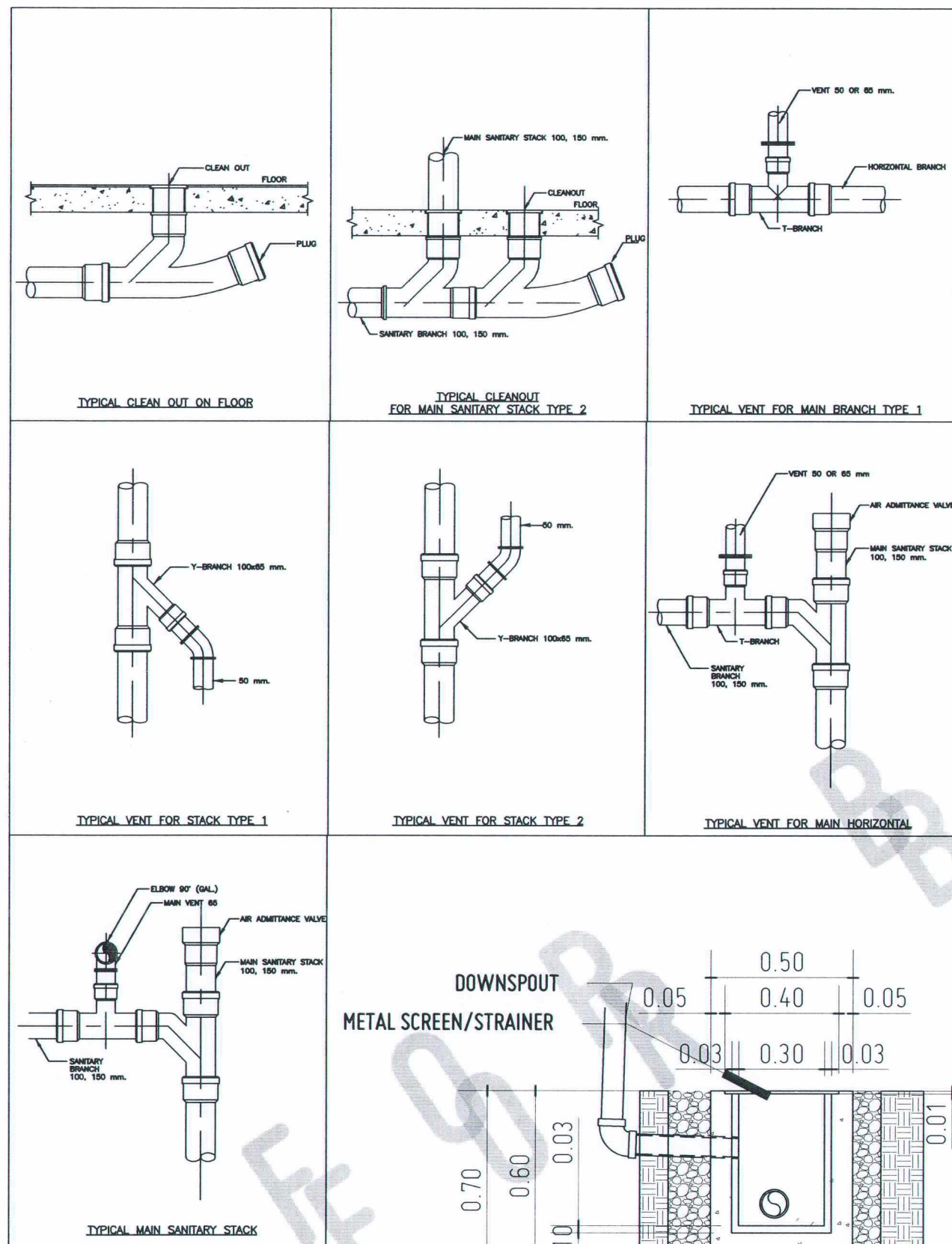
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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
SEPTIC TANK DETAILS:
-BLOW-UP PLAN
-LONGITUDINAL SECTION

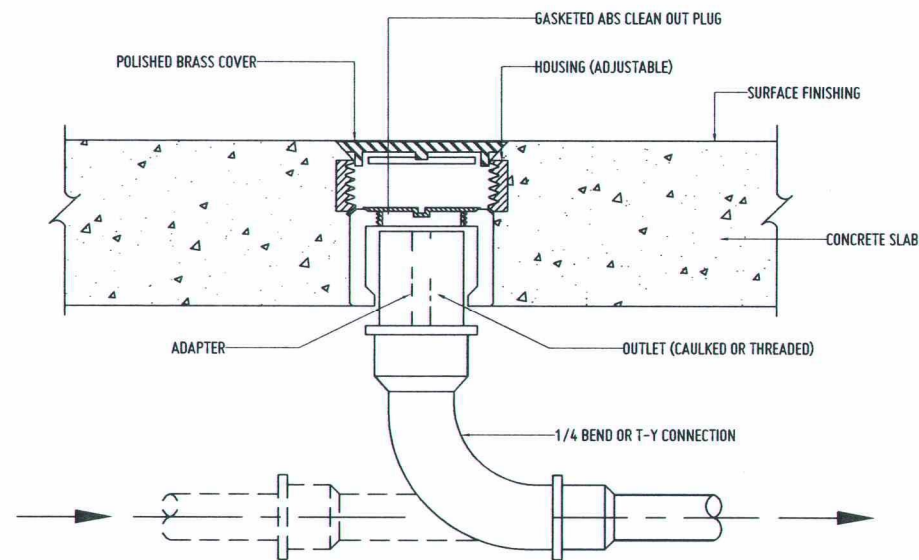
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DATE DRAWN:
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P16

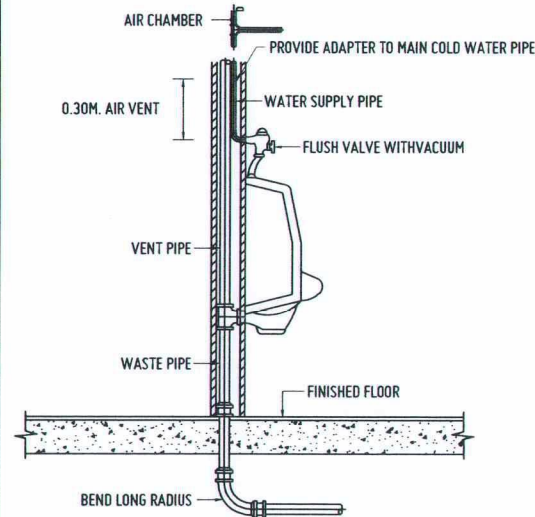


SECTION A

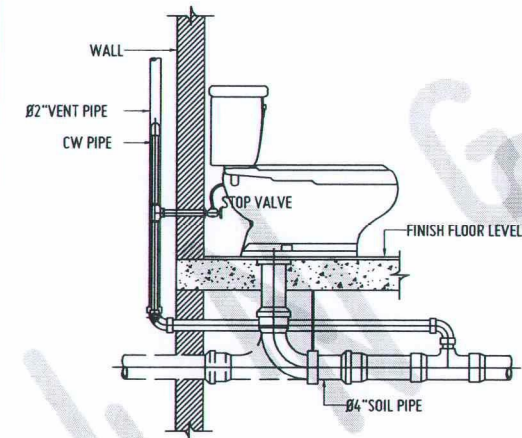
SECTION B



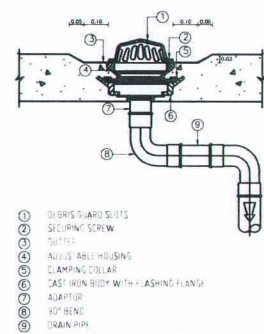
FLOOR CLEANOUT



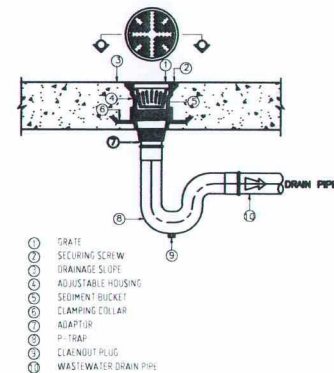
WALL HUNG URINAL (FLUSH VALVE TYPE)



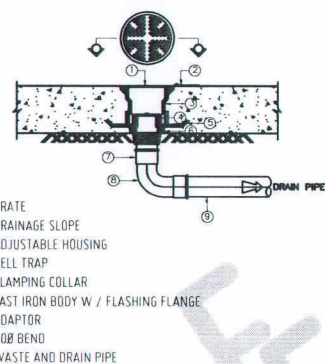
WATER CLOSET WITH FLUSH TANK (WC)



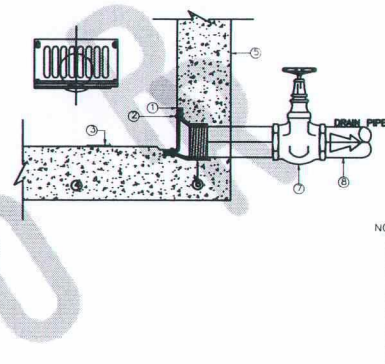
ROOF DRAIN



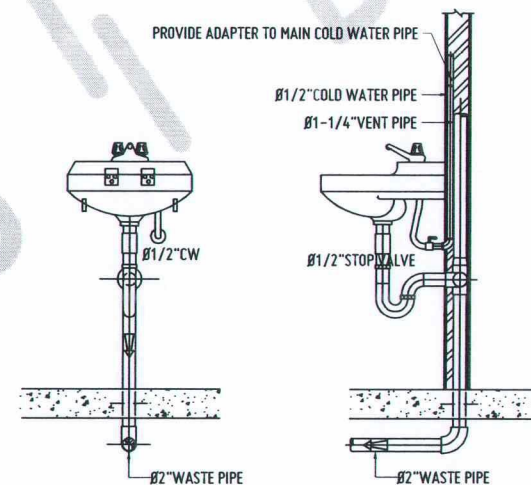
FLOOR DRAIN (USE FOR SLAB ABOVE CEILING)



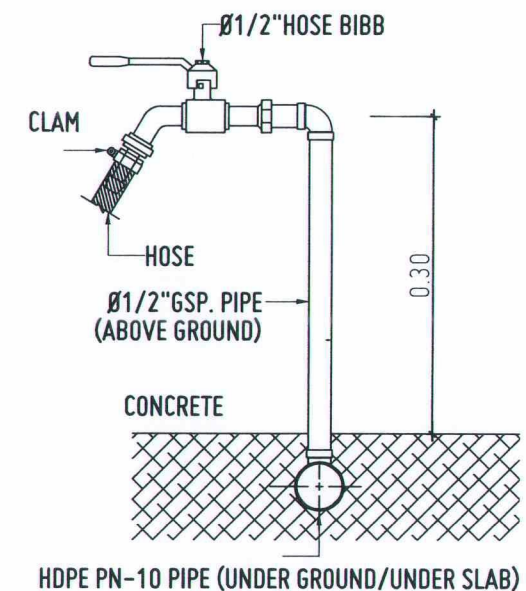
FLOOR DRAIN (USE FOR SLAB ON GROUND)



SCUPPER DRAIN (AT WATER TANK)



LAVATORY



HOSE BIBB



TOILET INSTALLATIONS & CONNECTION DETAILS

SCALE: NOTS



REPUBLIC OF THE PHILIPPINES
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MASTER PLUMBER/SANITARY ENGINEER
PRC NO. PTR NO.
DATE
TIN NO. PLACE

PROJECT
CONSTRUCTION OF
INNOVATION AND COLLABORATION HUB PHASE II,
ALUBIJID (MAIN) CAMPUS
LOCATION
USTP AGILA S&T PARK, ALUBIJID, MISAMIS ORIENTAL
OWNER
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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:
TOILET INSTALLATION &
CONNECTION DETAILS

DRAWN BY:
DATE DRAWN:
FNT:

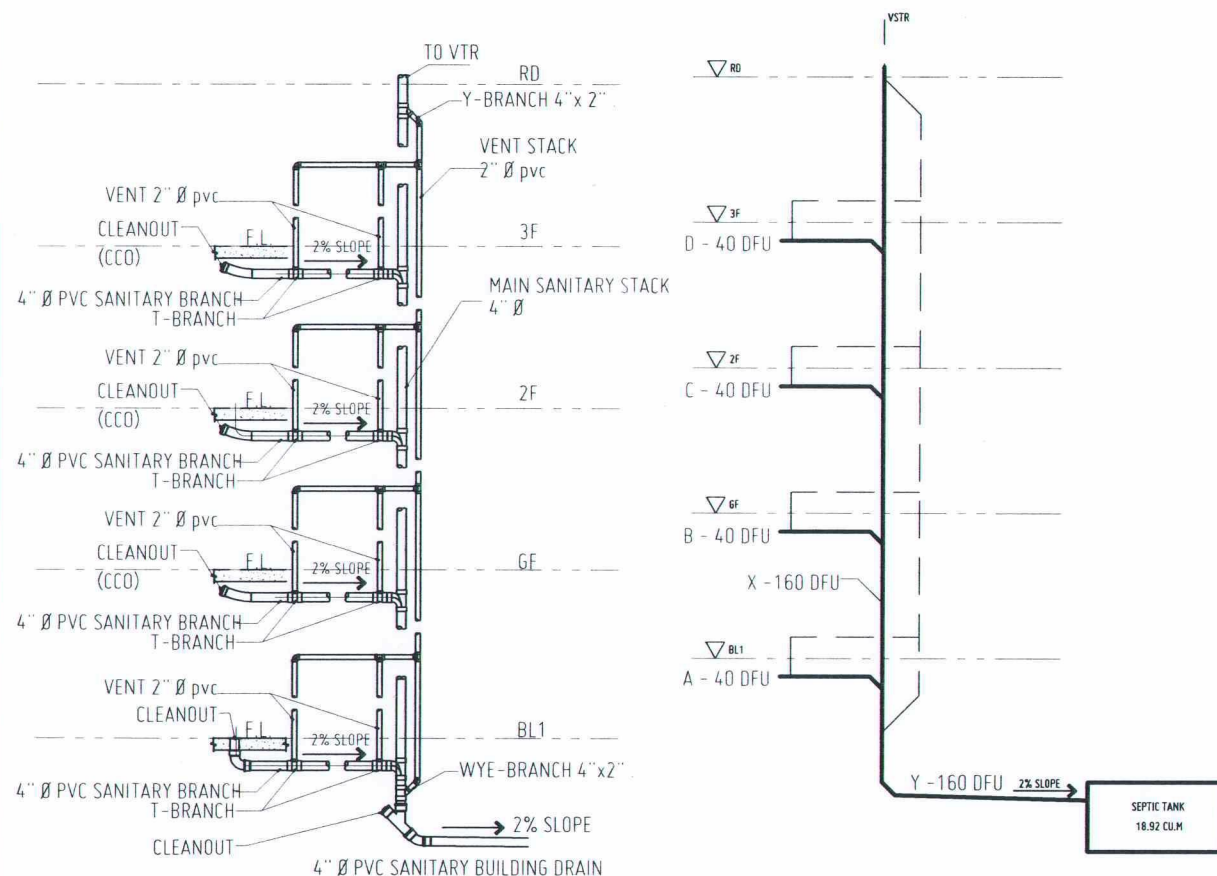
P18

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

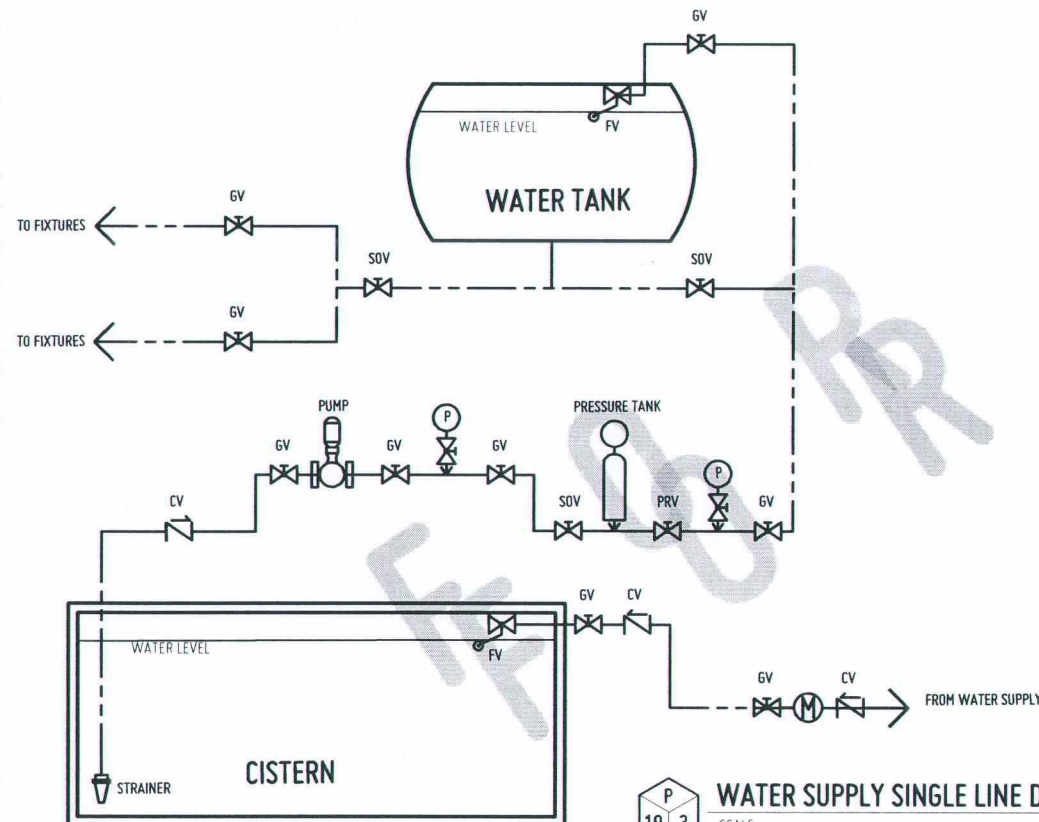
GENERAL NOTES & SPECIFICATIONS:

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 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.

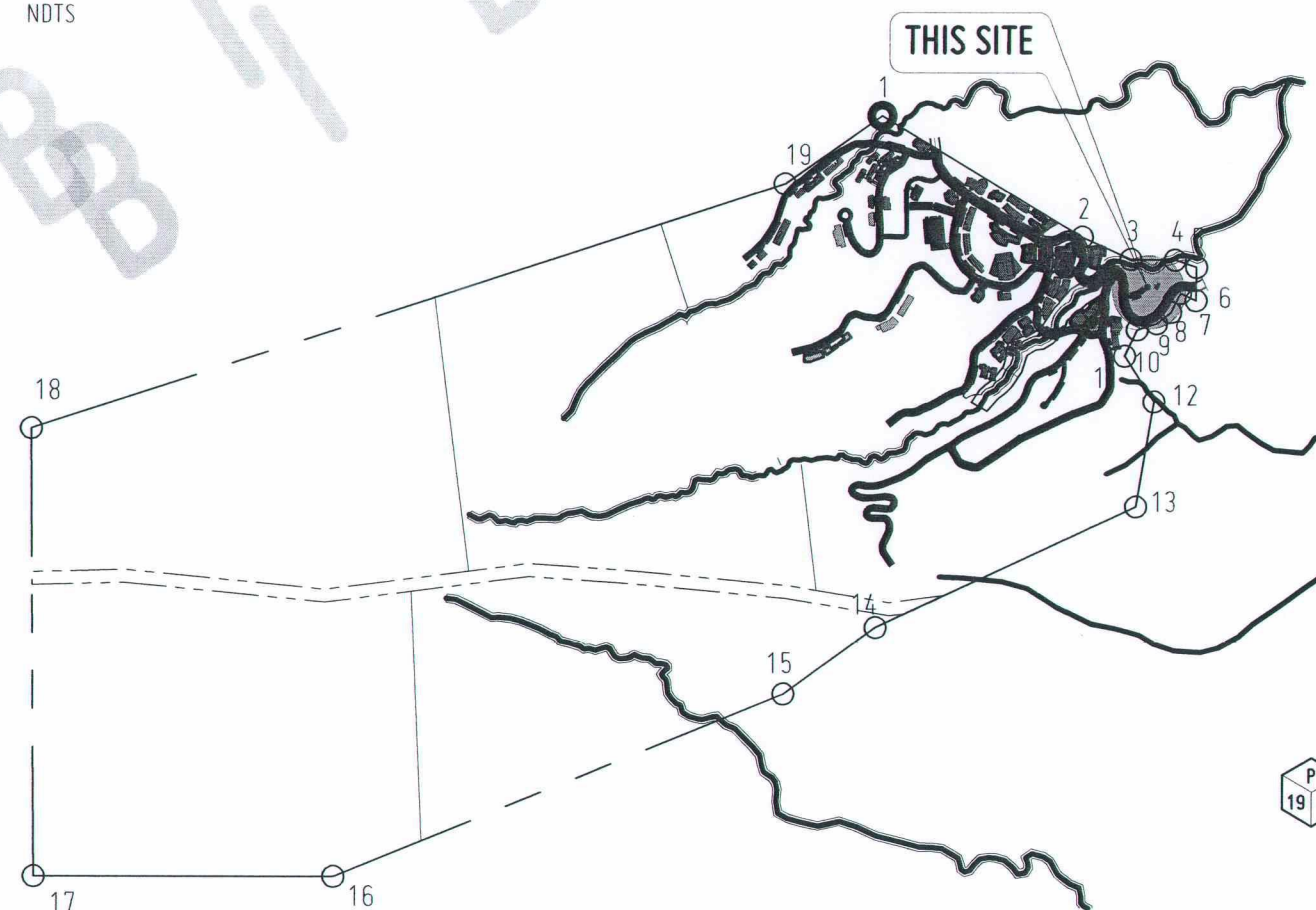


PLUMBING WASTE DIAGRAM
SCALE: NDTs

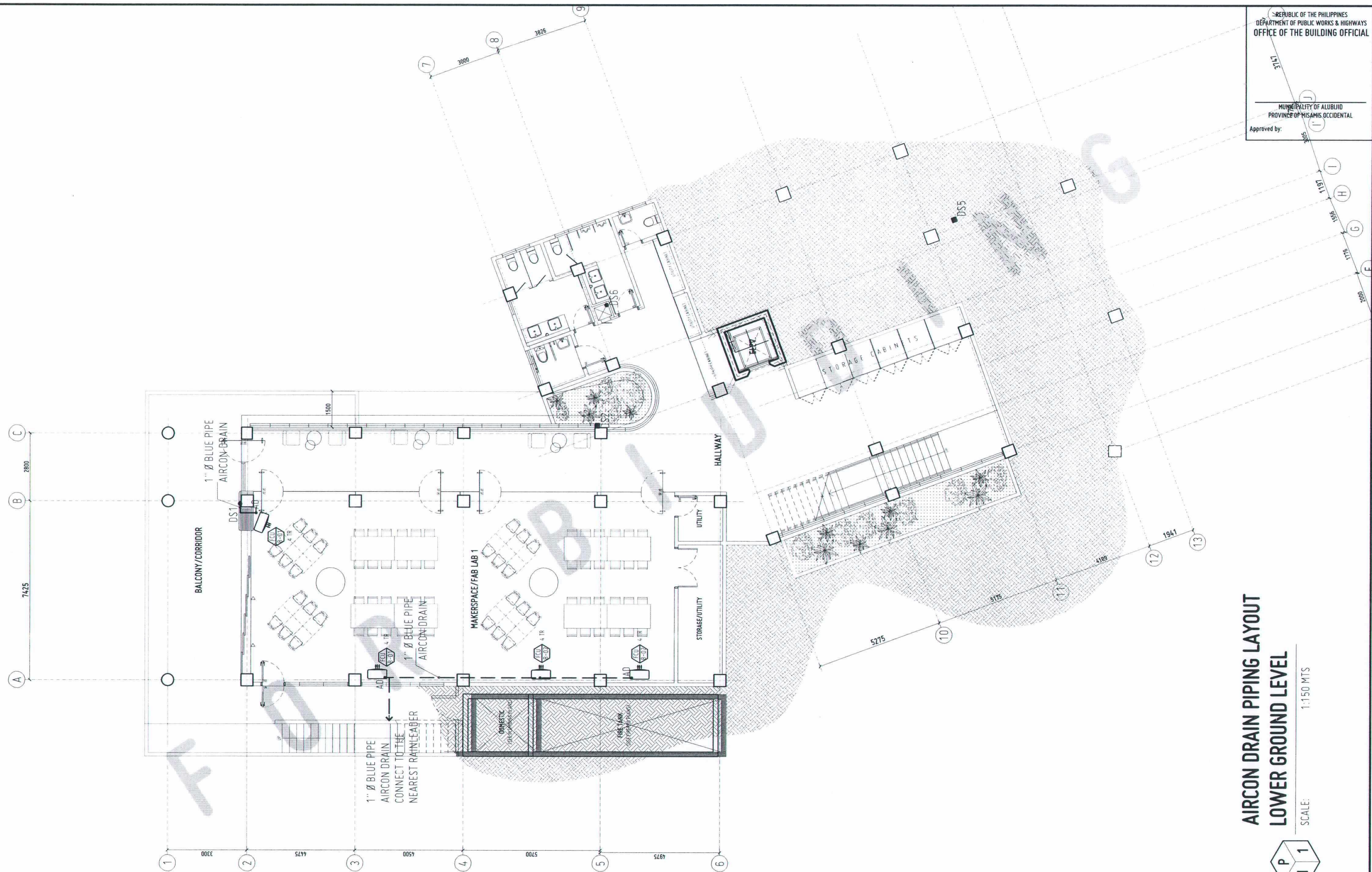
SOIL PIPE LINE RISER DIAGRAM
SCALE: NDTs



WATER SUPPLY SINGLE LINE DIAGRAM
SCALE: NDTs

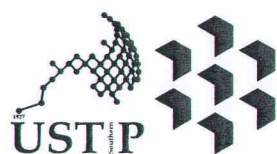


LOCATION MAP
SCALE: NDTs



AIRCON DRAIN PIPING LAYOUT
LOWER GROUND LEVEL

SCALE: 1:150 MTS



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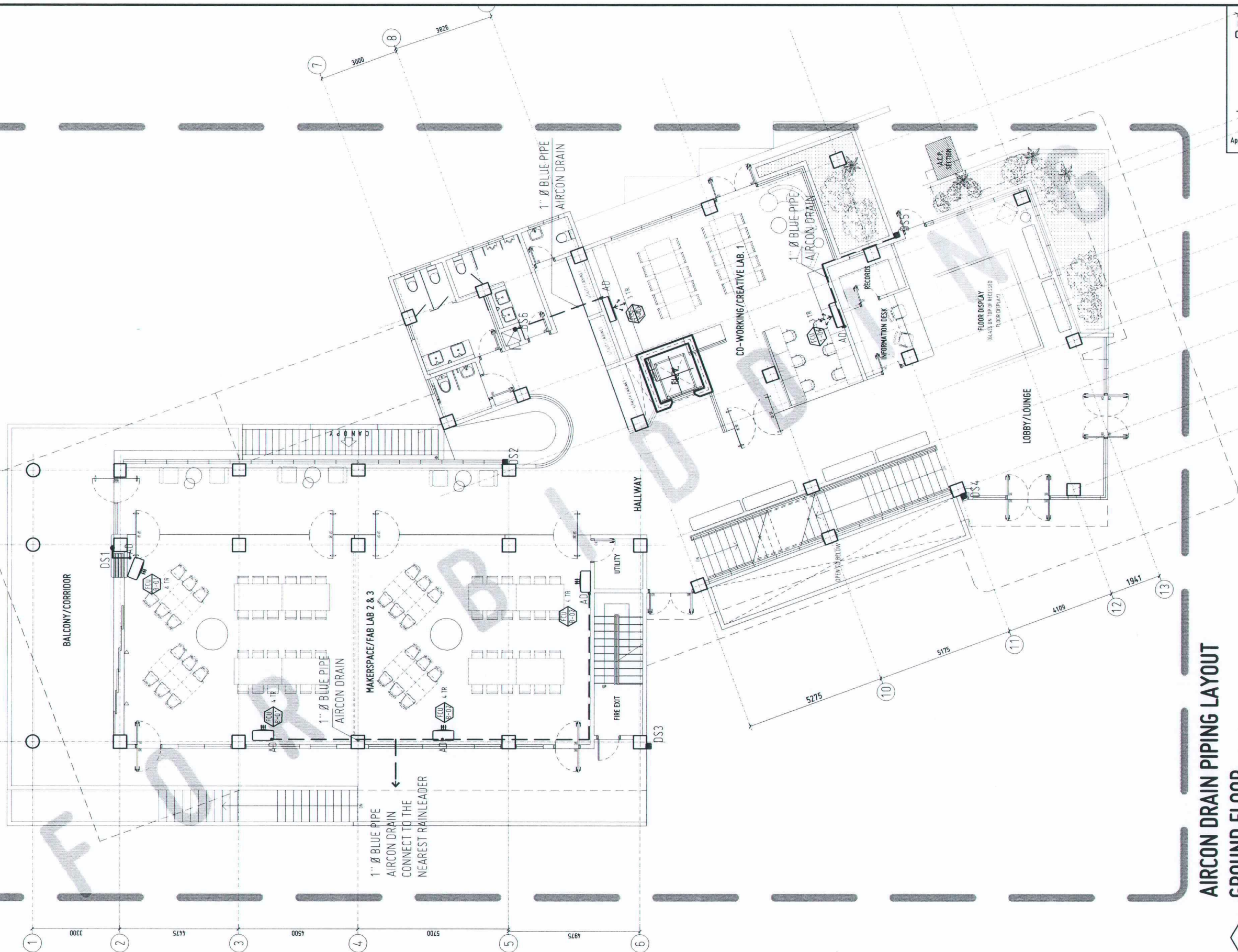
APPROVED BY:
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PRESIDENT, USTP SYSTEM

SHEET CONTENTS:
AIRCON DRAIN
LAYOUT PLAN:
-LOWER GROUND LEVEL

DRAWN BY:
DATE DRAWN:
FNT:

P20

FOR NEXT PHASE



AIRCON DRAIN PIPING LAYOUT
GROUND FLOOR

SCALE: 1:150 MTS

