

MECHANICAL DESIGNS AND DRAWINGS



OPERATIONAL EXCELLENCE FOR RESULTS THAT MATTER

CLIENT



PROJECT

ENHANCING THE QUALITY OF SECONDARY SCHOOL EDUCATION
THROUGH A HOLISTIC APPROACH IN ZANZIBAR,
CONSTRUCTION OF
JONGOWE SECONDARY SCHOOL
LABORATORY AND WASH FACILITIES

M A Y 2 0 2 1

PROJECT NUMBER:		
DRAWING NUMBER:	G-E-001	REV
PROJECT STATUS:	TENDER DRAWINGS	00

	DRAWING SHEET No.	DESCRIPTION	SCALE	PAPER SIZE
01	G-M-001	COVER SHEET		
02	G-M-002	DRAWINGS LIST		
03	G-M-003	MECHANICAL WORKS - LEGEND, SYMBOLS & GENERAL NOTES		
	M-PL-00-	PLUMBING SERIES		
		PLANS		
04	M-PL-001	LABORATORY FLOOR PLAN - PLUMBING & FIRE FIGHTING LAYOUT		
05	M-PL-002	BOYS' & GIRLS' TOILET FLOOR PLAN - PLUMBING LAYOUT		
06	M-PL-003	SITE PLAN - WATER RETICULATION LAYOUT		
07	M-PL-801-			
08	M-PL-802-			
	M-DR-00-	DRAINAGE SERIES		
09	M-DR-001	LABORATORY FLOOR PLAN - DRAINAGE LAYOUT		
10	M-DR-002	BOYS' & GIRLS' TOILET FLOOR PLAN - DRAINAGE LAYOUT		
11	M-DR-003	LABORATORY ROOF PLAN - DRAINAGE LAYOUT		
12	M-DR-004	SITE PLAN - DRAINAGE LAYOUT		
		AIR CONDITIONING SERIES		
13	M-AC-000	PLANS		
14	M-AC-001	LABORATORY FLOOR PLAN - AIR CONDITIONING LAYOUT		
15	M-LP-001	LABORATORY FLOOR PLAN - GAS PIPEWORK LAYOUT		
	M-DR-900-	STANDARD DETAILS		
16	M-DR-901	DRAINAGE AND PLUMBING DETAILS		
17	M-DR-902	DILUTION TRAP & DRIP CUP LABORATORY DISPOSAL DETAILS		
18	M-DR-903	500KG LPG STORAGE TANK DETAILS LAYOUT		



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KENYA MULTI COUNTRY OFFICE
(KEMC), NAIROBI
UNOPS BUILDING, UN LANE,
OFF UN AVENUE P.O. Box 783,
VILLAGE MARKET, 00621
NAIROBI, KENYA.
UNOPS IS ISO 9001 CERTIFIED

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Korea International Cooperation Agency

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DRAWING TITLE

MECHANICAL DRAWINGS LIST

TECHNICAL SERVICES UNIT

		SIGN	DATE
DRAWN BY	SAMWEL O.		
CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		

ISSUE DATE: MAY 2021

P.M.SIGNATURE

DRAWING NUMBER:	SCALE	PAPER SIZE
G-M-002	NTS	A-3

ISSUED TENDER DRAWING

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DRAWING TITLE

MECHANICAL WORKS - LEGEND,
SYMBOLS & GENERAL NOTES

TECHNICAL SERVICES UNIT

		SIGN	DATE
DRAWN BY	SAMWEL O.		
CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		
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LEGEND		
1	PD	PIPE DROP
2	PR	PIPE RISE.
3	H/L	HIGH LEVEL.
4	FV	FLOAT VALVE.
5		BFV - BALL FLOAT VALVE.
6		IV - ISOLATION VALVE.
7		NRV - NON-RETURN VALVE.
8		BOOSTER PUMP-SET
9	OFP	OVER FLOW PIPE
10	RWDP	RAIN WATER DOWN PIPE
11	HS	HAND SPRAY c/w FLEXIBLE HOSE
12	VP	VENT PIPE.
13	RE	RODDING EYE
14	F/A	FROM ABOVE.
15	T/A	TO ABOVE.
16	F/B	FROM BELOW.
17	T/B	TO BELOW.
18	RWO	RAIN WATER OUTLET
19		FT-FLOOR TRAP.
20	IC	IC - INSPECTION CHAMBER
21		GT - GULLY TRAP
22		WATER PORTABLE FIRE EXTINGUISHER
23		CO ₂ PORTABLE FIRE EXTINGUISHER
24	DT	DILUTION TRAP
25		FAN CONTROLLER
26	S	SOAP DISPENSOR
27	<div>SIGNAGE</div>	
28	G	LPG LEAK DETECTOR

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES, DRAWINGS, SCHEDULES AND SPECIFICATIONS, LEGENDS AND STANDARD DETAILS.
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3. DIMENSIONS GOVERN ON ALL DRAWINGS AND DETAILS. SHOULD ANY DISCREPANCIES BE FOUND WITH THIS DRAWING AND ANY ASSOCIATED DRAWINGS OR SPECIFICATIONS THIS SHOULD BE BROUGHT TO THE ATTENTION OF THE M&E BUILDING SERVICES CONSULTANT IMMEDIATELY
4. UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN MILLIMETRES.
5. DO NOT SCALE FROM THIS DRAWING.
6. DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND OR PREFABRICATED.
7. THIS DRAWING SHOULD ONLY BE USED FOR THE SPECIFIC SERVICES INTENDED.
8. THIS DRAWING SHOWS THE DESIGN INTENT ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL CO-ORDINATION OF THE SERVICES INDICATED ON THIS AND ALL OTHER SERVICES DRAWINGS.
9. AVAILABLE STATIC PRESSURE FOR PLUMBING FIXTURES AS 5L/MIN
10. FINAL ACCESS AND SETTING OUT OF SERVICES SHALL BE AGREED BETWEEN THE ARCHITECT AND THE CONTRACTOR.
11. THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.
12. WHERE PUBLIC HEALTH SERVICES PASS THROUGH FIRE COMPARTMENTATION CEILING VOIDS, FLOOR VOIDS AND STRUCTURAL WALLS THE CONTRACTOR SHALL SLEEVE/SEAL THE OPENING WITH AN ACOUSTIC AND FIRE SEALANT APPROVED BY THE ARCHITECT.
13. THE CONTRACTOR SHALL REFER TO THE ARCHITECTS DRAWINGS FOR DETAILS OF FIRE COMPARTMENTATION.
14. ALL DRAINAGE PIPE WORK SHALL BE IN UPVC,HEAVY DUTY
15. DRAINAGE PIPEWORK SLOPES AT 1:100
16. ALL PLUMBING PIPEWORK ABOVE GROUND TO BE IN PPR AND BELOW GROUND TO BE IN HDPE.
17. FINAL ACCESS AND SETTING OUT OF SERVICES SHALL BE AGREED BETWEEN THE ARCHITECT AND THE CONTRACTOR.
18. THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.
19. WHERE PUBLIC HEALTH SERVICES PASS THROUGH FIRE COMPARTMENTATION CEILING VOIDS, FLOOR VOIDS AND STRUCTURAL WALLS THE CONTRACTOR SHALL SLEEVE/SEAL THE OPENING WITH AN ACOUSTIC AND FIRE SEALANT APPROVED BY THE ARCHITECT.
20. THE CONTRACTOR SHALL REFER TO THE ARCHITECTS DRAWINGS FOR DETAILS OF FIRE COMPARTMENTATION.
21. THE LENGTH OF THE TEMPERED WATER PIPEWORK SHALL BE KEPT TO A MINIMUM & SHALL BE NO LONGER THAN 2 METRES.
22. MINIMUM DEPTH OF WATER PIPES CONSIDERED AS 400MM (TO BE DETERMINED ON SITE)
23. LOCATION, ACCESS & CONSTRUCTION OF INCOMING SERVICES TO BE READ IN CONJUNCTION WITH ARCHITECTURAL GENERAL LAYOUTS.
24. WATER PIPES DROPPING TO FIXTURES TO BE COVERED BY SHAFTS OR ENCLOSED WITHIN WALLS.
25. PIPE WORK CROSSING EXPANSION JOINTS SHALL BE PROVIDED WITH FLEXIBLE CONNECTIONS. REFER TO PIPE WORK MANUFACTURER'S DETAILS FOR INFORMATION.
26. REFER TO REFLECTED CEILING PLAN FOR THE SETTING OUT OF ALL SOFFIT MOUNTED SERVICES COMPONENTS.



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NO.	DESCRIPTION	DATE

KOICA
Korea International
Cooperation Agency

CONSTRUCTION OF JONGOWE SECONDARY SCHOOL LABORATORY AND WASH FACILITIES

LABORATORY FLOOR PLAN
PLUMBING & FIRE FIGHTING
LAYOUT

		SIGN	DATE
DRAWN BY	SAMWEL O.		
CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		

DRAWING NUMBER:	SCALE	PAPER SIZE
M-PL-001	1:100	A-3

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CONSTRUCTION OF
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LABORATORY AND WASH FACILITIES

DRAWING TITLE

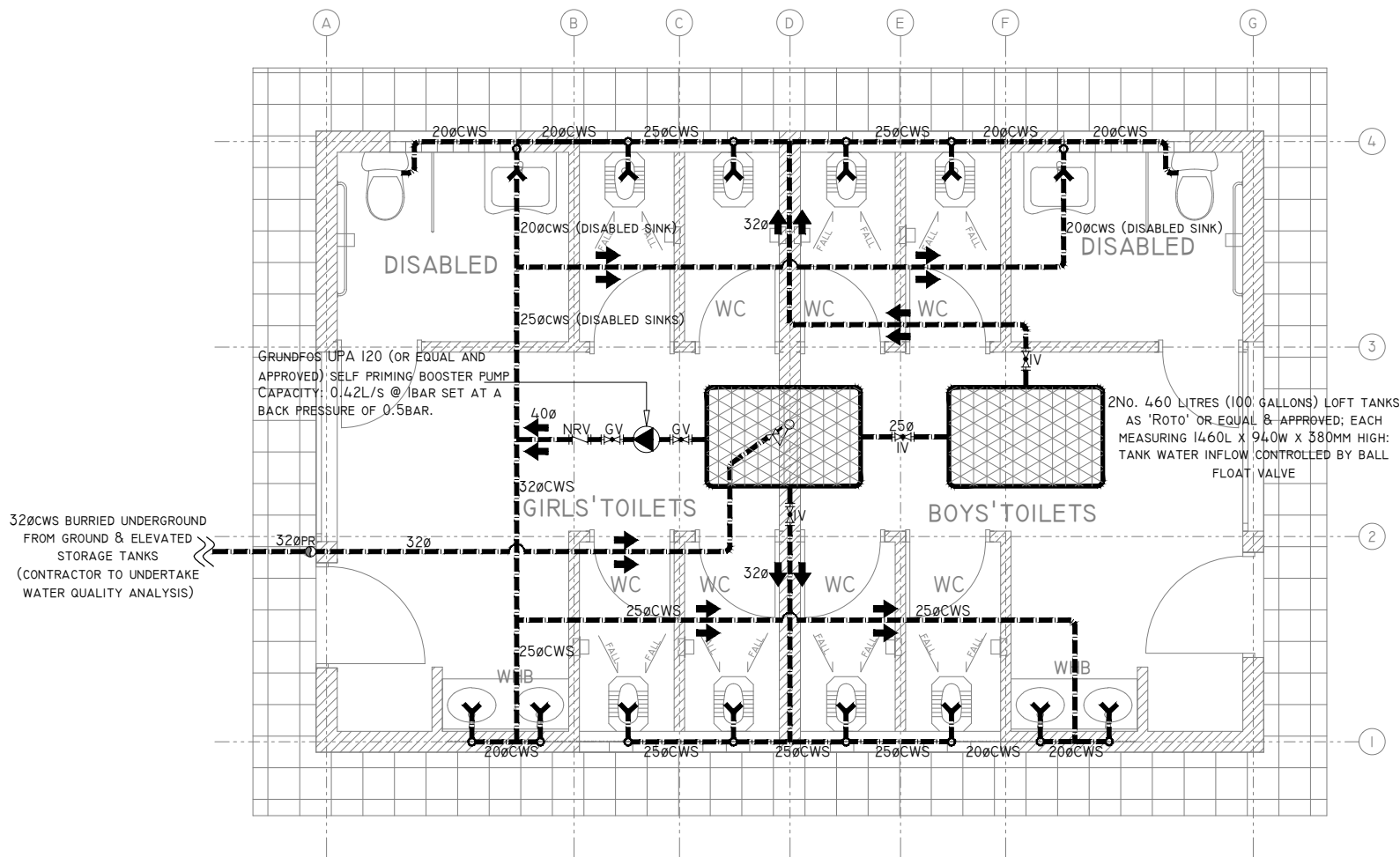
BOYS' AND GIRLS' TOILET FLOOR
PLAN PLUMBING LAYOUT

TECHNICAL SERVICES UNIT

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CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		
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DRAWING TITLE

LABORATORY FLOOR PLAN
DRAINAGE LAYOUT

TECHNICAL SERVICES UNIT

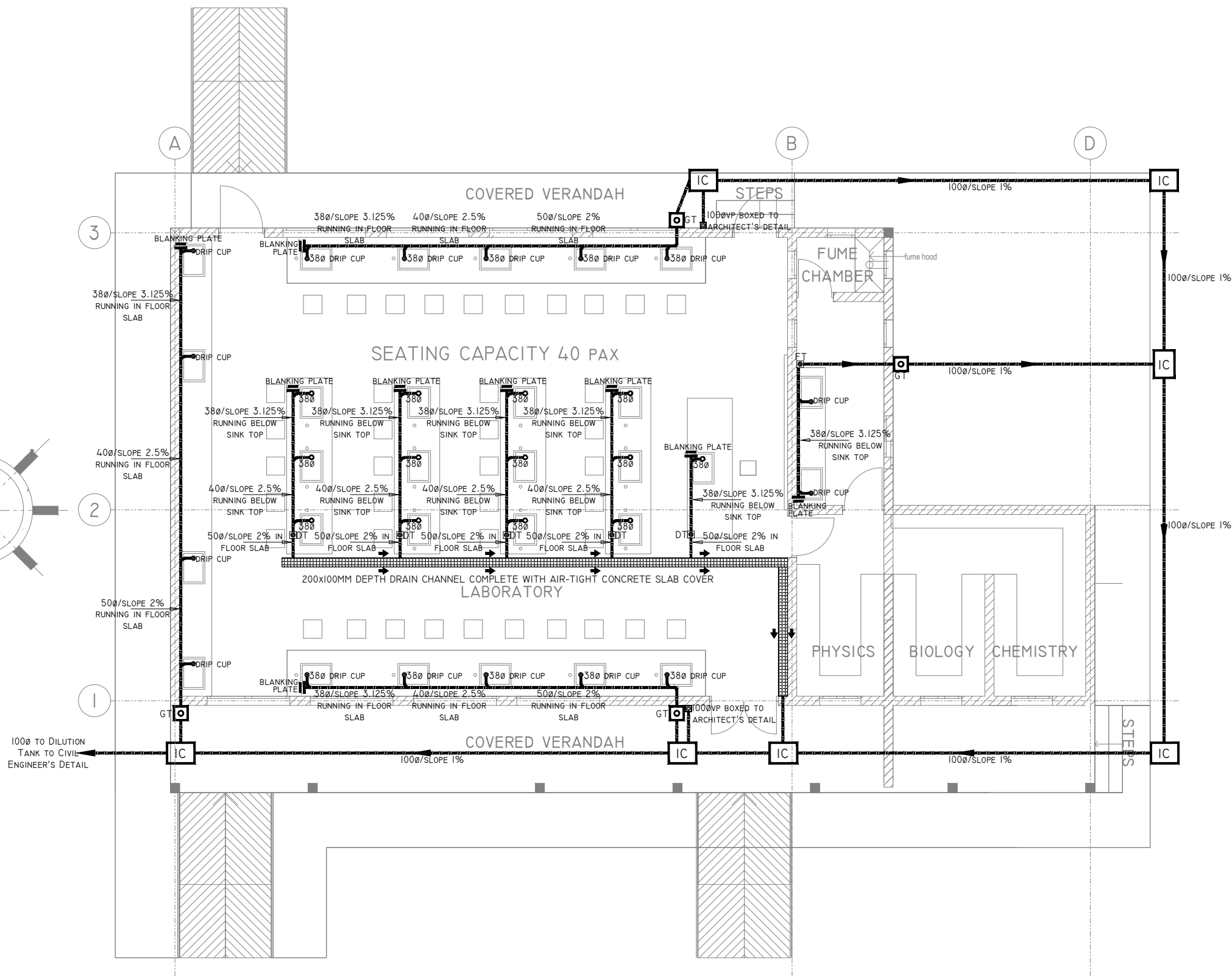
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LABORATORY AND WASH FACILITIES

DRAWING TITLE

BOYS' AND GIRLS' TOILET FLOOR
PLAN
DRAINAGE LAYOUT

TECHNICAL SERVICES UNIT

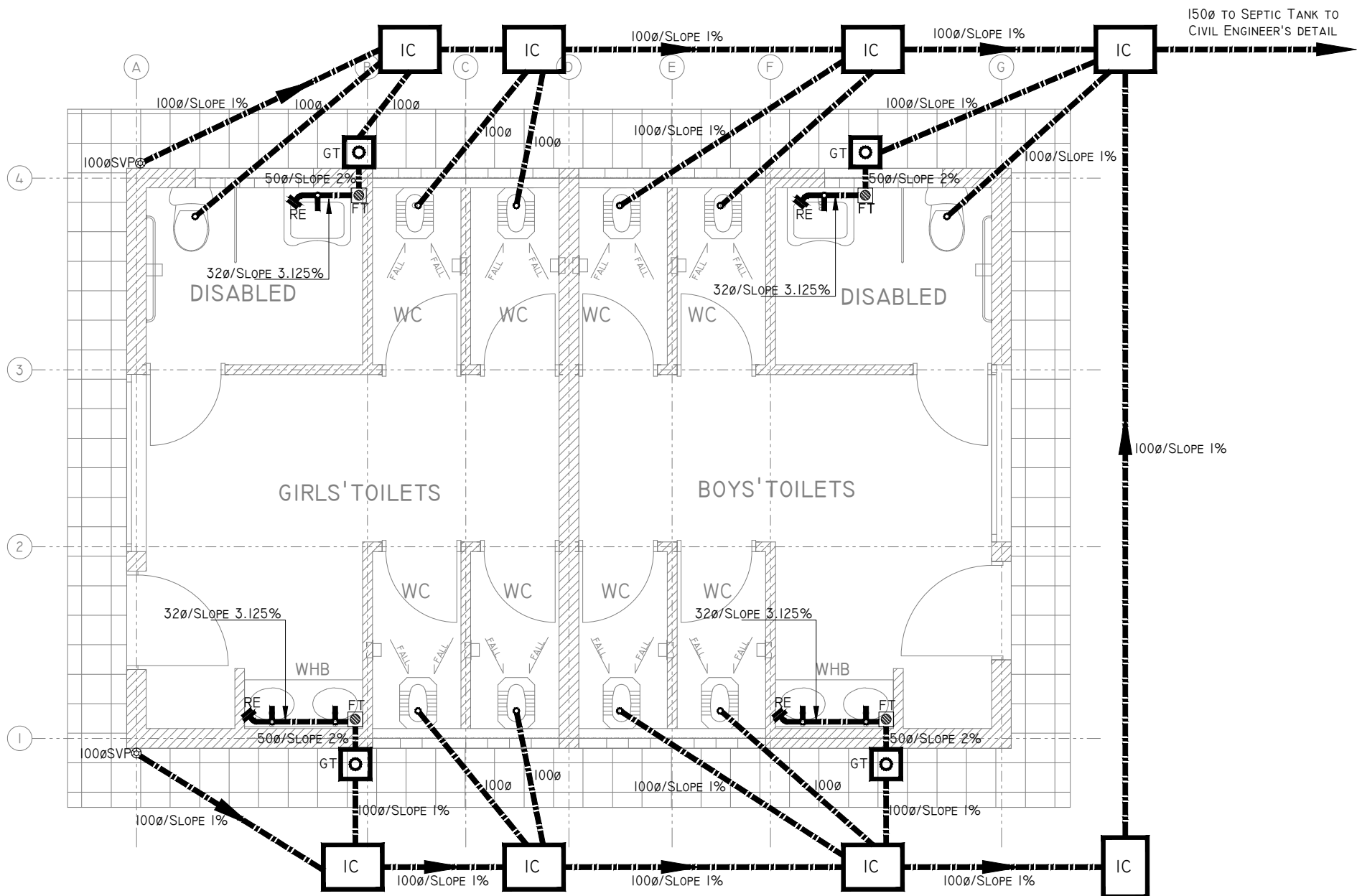
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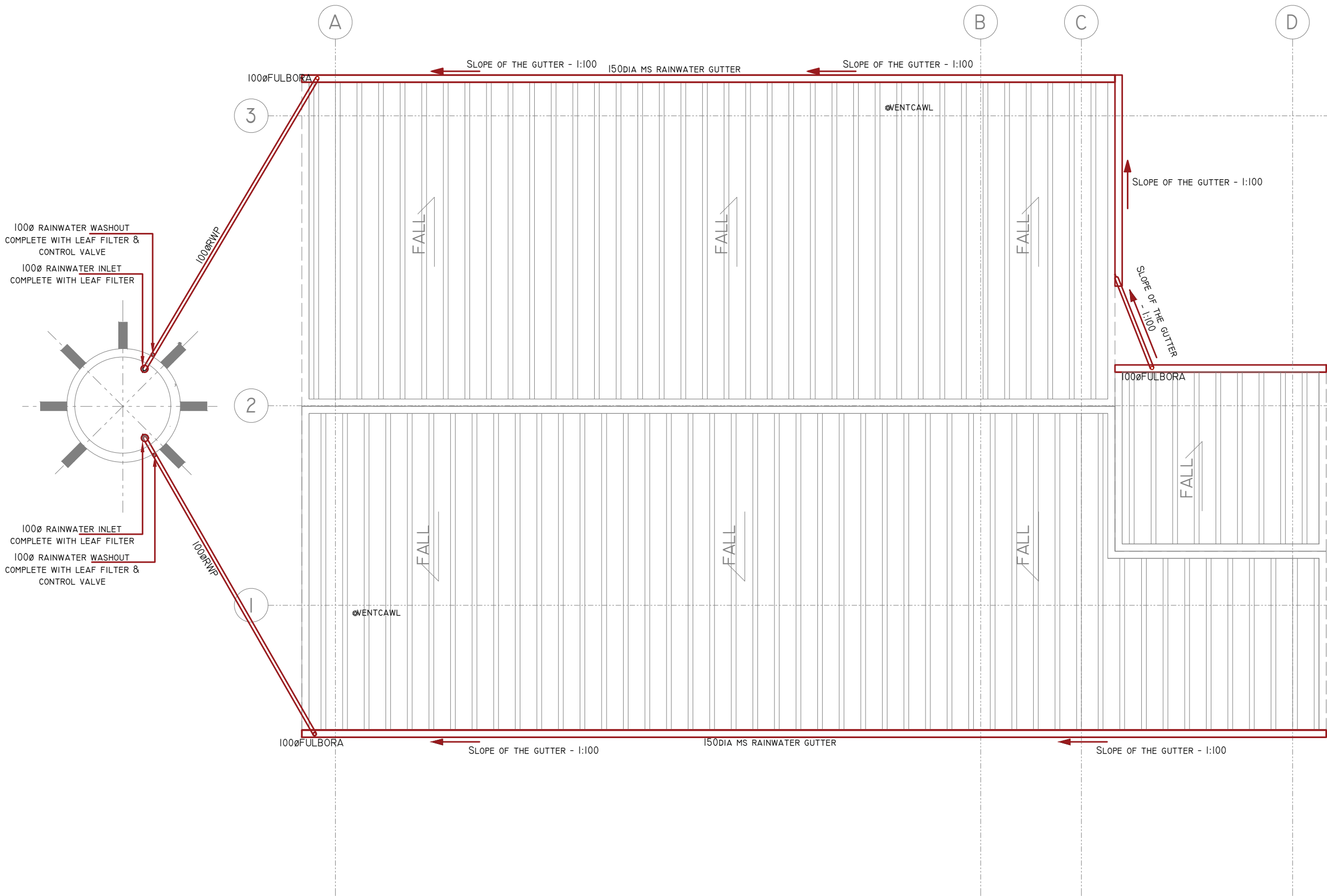
LABORATORY ROOF PLAN
DRAINAGE LAYOUT

TECHNICAL SERVICES UNIT

		SIGN	DATE
DRAWN BY	SAMWEL O.		
CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		
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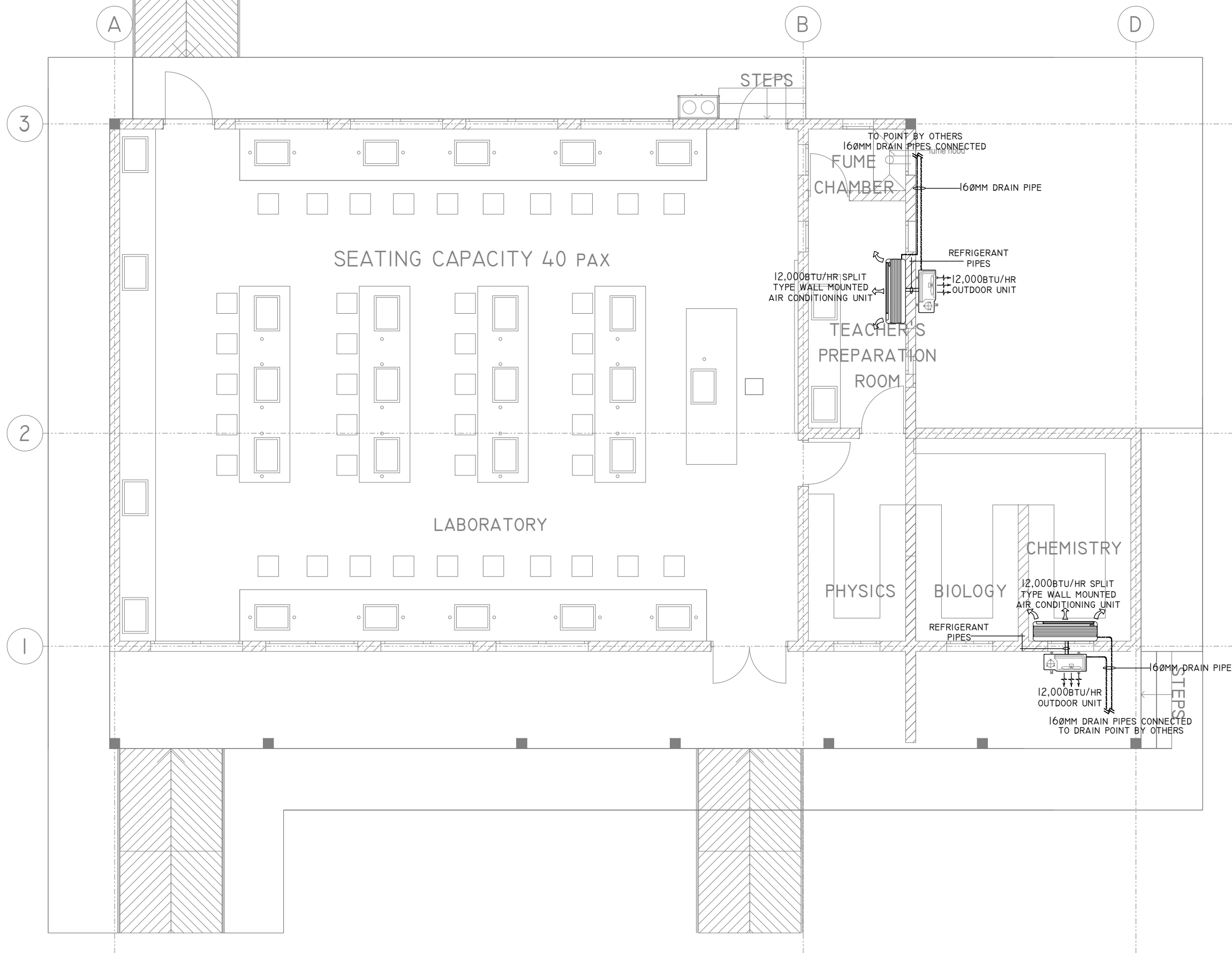
DRAWING TITLE
LABORATORY FLOOR PLAN AIR CONDITIONING LAYOUT

TECHNICAL SERVICES UNIT

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M-AC-001		1:75	A-3

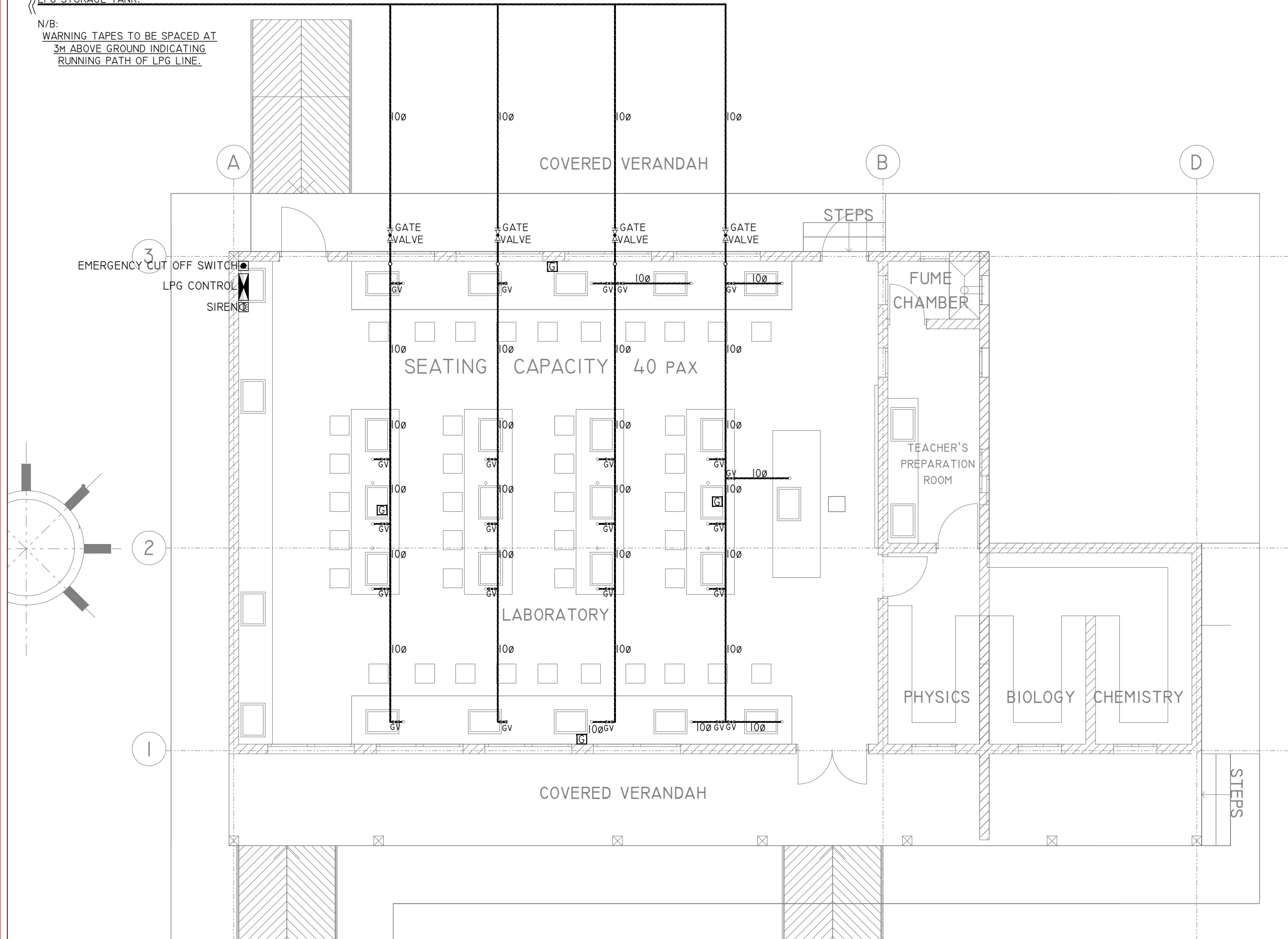
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150 SCHEDULE 40 PIPE (BITUMEN
APPLIED) LPG SUPPLY AT 500MM
DEPTH BELOW GROUND FROM
LPG STORAGE TANK.

N/B:
WARNING TAPES TO BE SPACED AT
3M ABOVE GROUND INDICATING
RUNNING PATH OF LPG LINE.



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DRAWING TITLE

LABORATORY FLOOR PLAN
GAS PIPEWORK LAYOUT

TECHNICAL SERVICES UNIT

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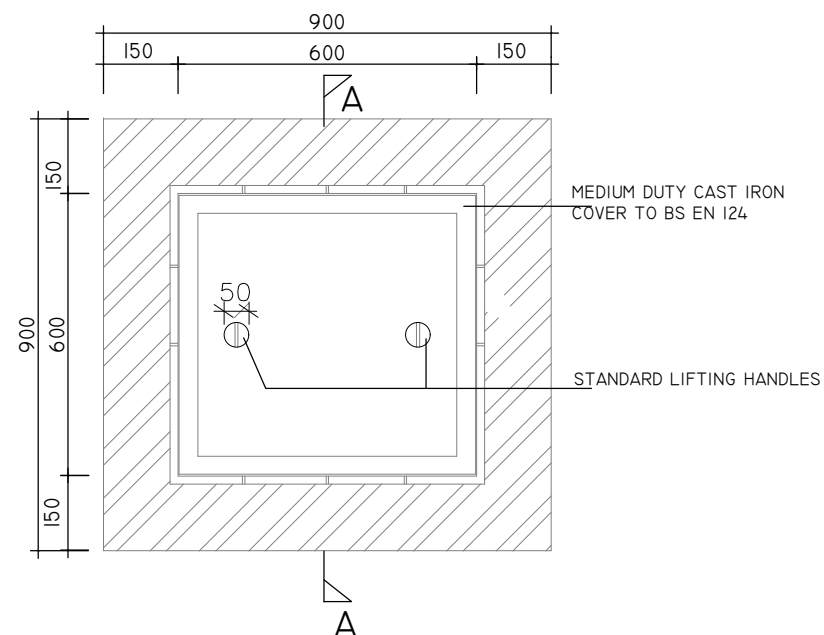
DRAINAGE AND PLUMBING
DETAILS

TECHNICAL SERVICES UNIT

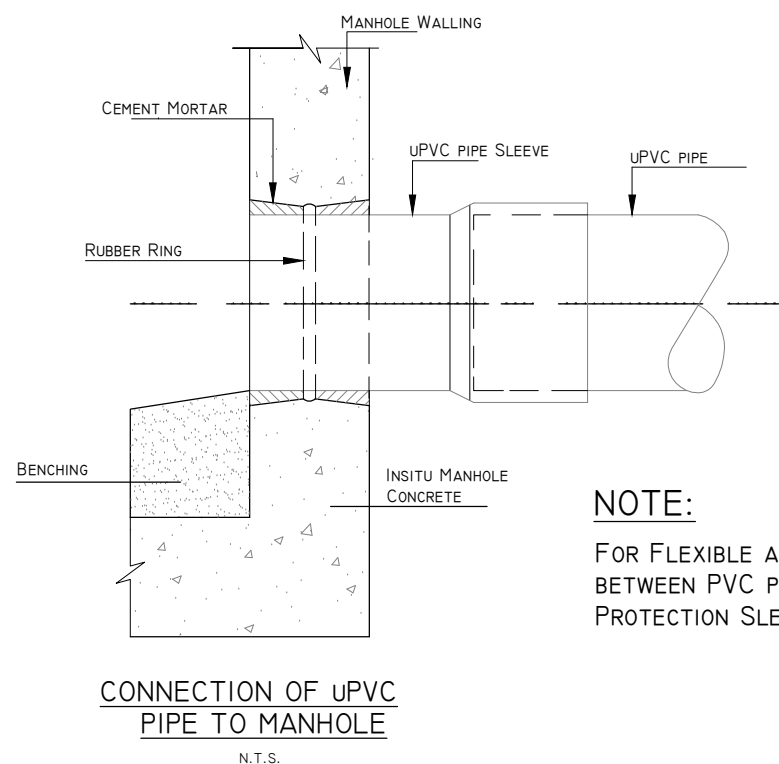
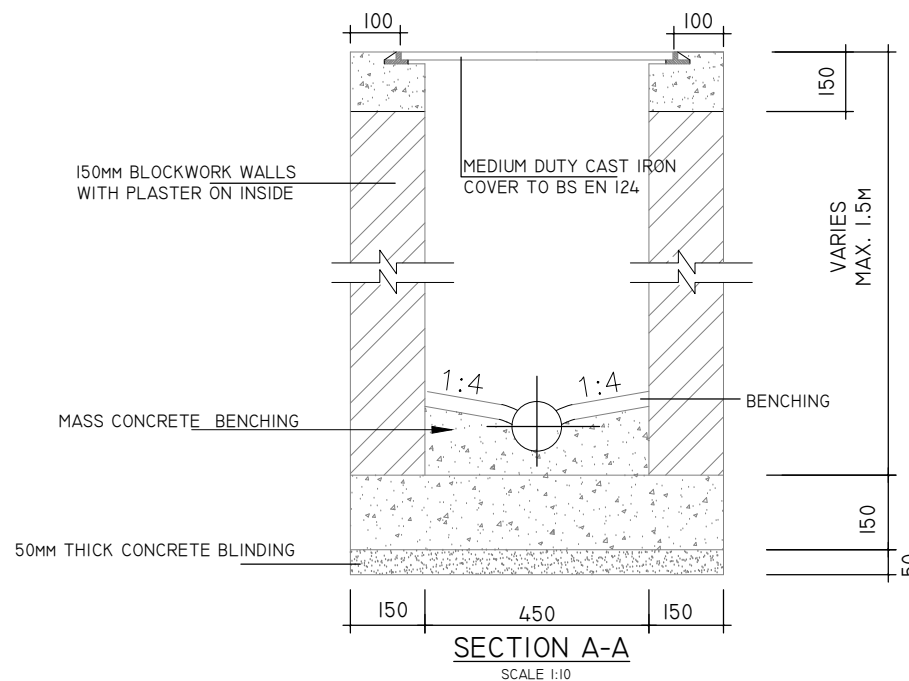
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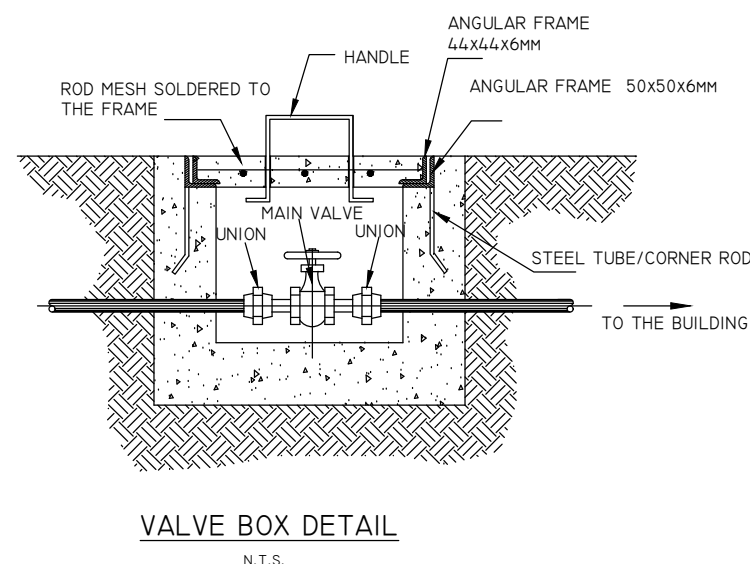
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INSPECTION CHAMBER & MANHOLE PLAN DETAILS FOR
DEPTH UPTO 1500
SCALE 1:10



NOTE:
FOR FLEXIBLE AND WATERTIGHT CONNECTION
BETWEEN PVC PIPE AND WALL, USE WALL
PROTECTION SLEEVE OR SIMILAR



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DRAWING TITLE
DILUTION TRAP & DRIP CUP LABORATORY DISPOSAL DETAILS

TECHNICAL SERVICES UNIT

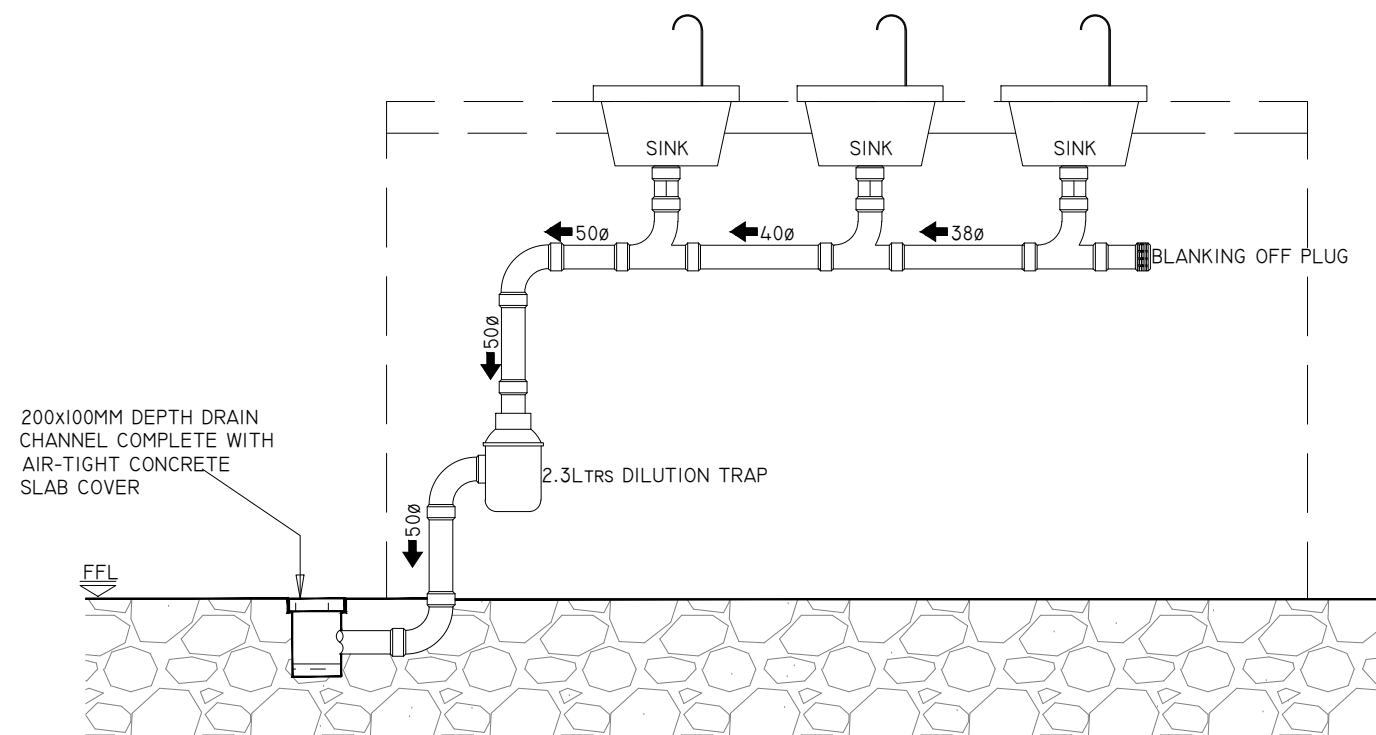
		SIGN	DATE
DRAWN BY	SAMWEL O.		
CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		

ISSUE DATE: MAY 2021 P.M. SIGNATURE

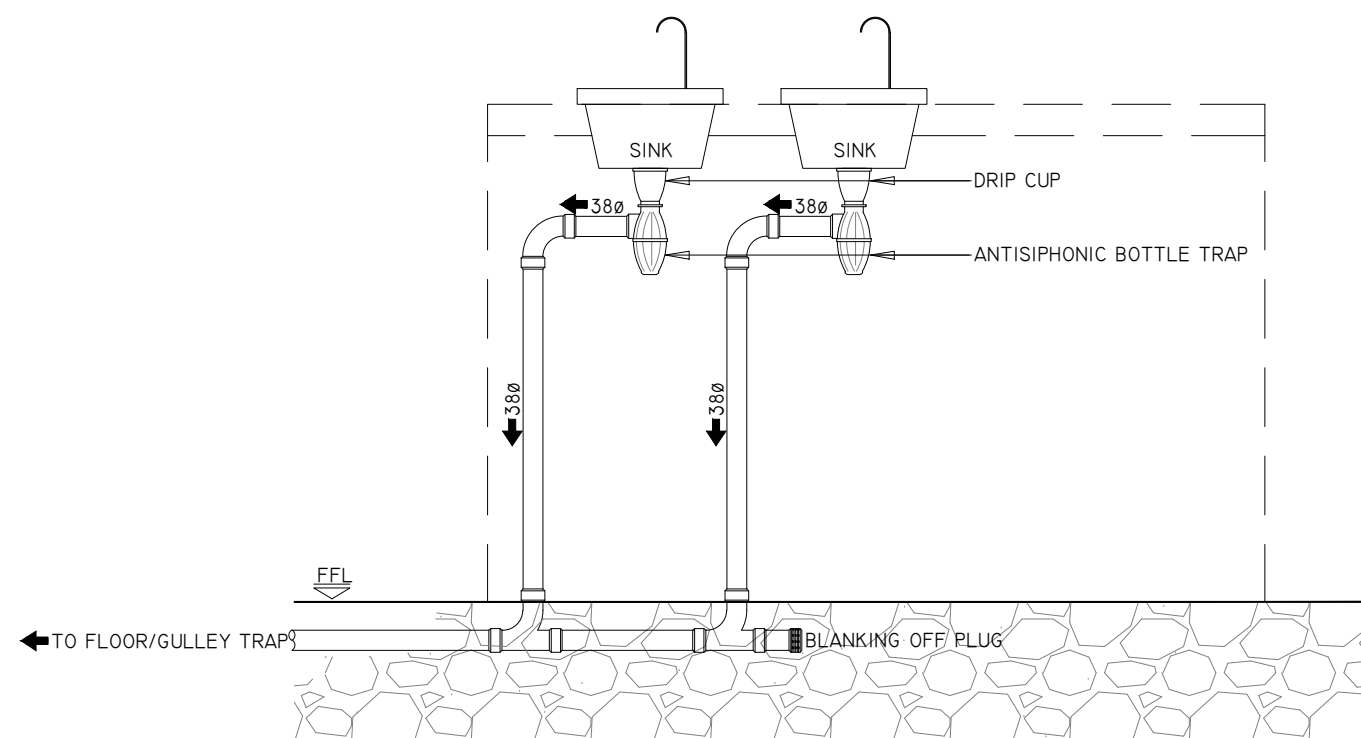
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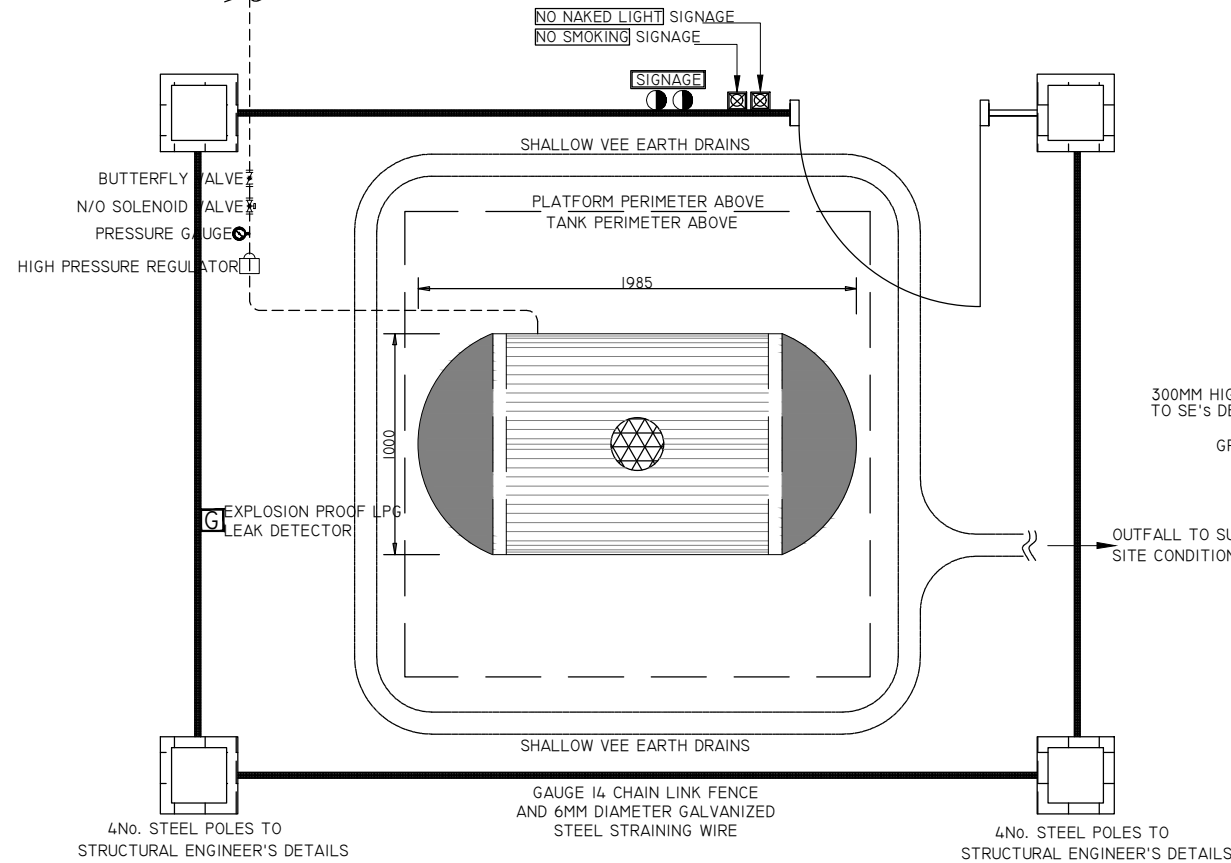
LABORATORY DISPOSAL-USE OF DILUTION TRAP



LABORATORY DISPOSAL-USE OF DRIP CUPS (FOR ISOLATED SINKS)

150 SCHEDULE 40 PIPE (BITUMEN APPLIED)
LPG SUPPLY AT 500MM DEPTH BELOW GROUND
FROM LPG STORAGE TANK TO LABORATORY.

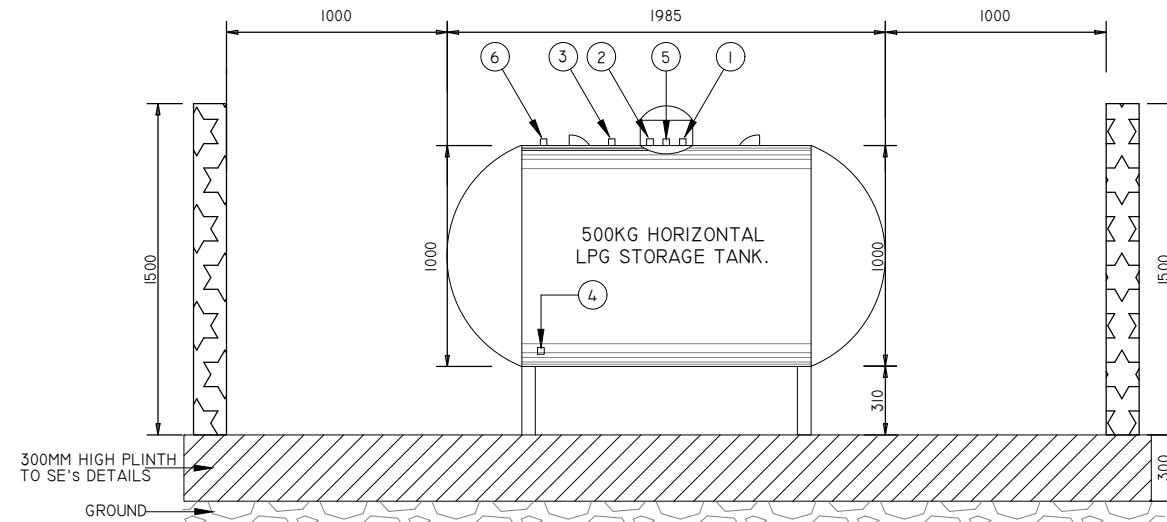
N/B:
WARNING TAPES TO BE SPACED AT 3M ABOVE
GROUND INDICATING RUNNING PATH OF LPG LINE.



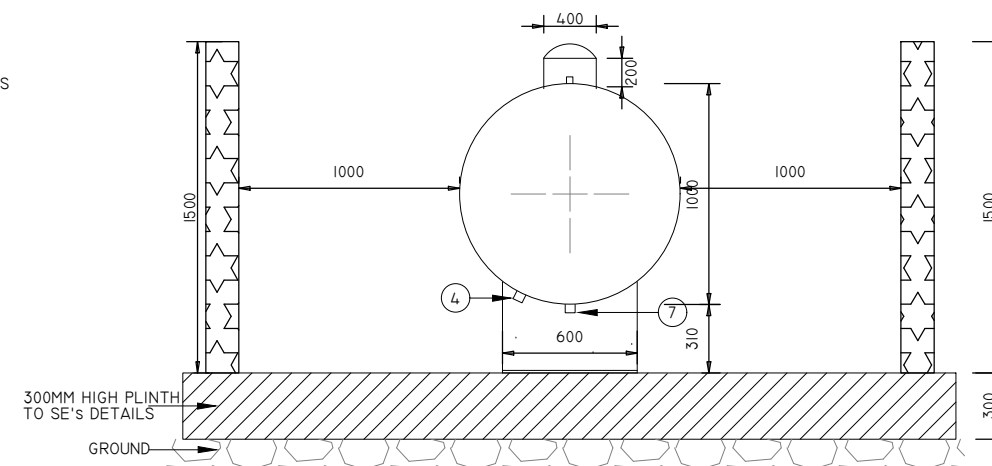
LPG TANK CAGE
PLAN VIEW

- 1 FLOAT GUAGE; ROCHESTER 6281-37, OR TAYLOR JUNIOR TOP MOUNT 37.
- 2 FILLER VALVE; REGO 7579, OR FISHER DI00, OR SELPAC PV-623A.
- 3 RELIEF VALVE; REGO 86846, OR FISHER H250-250, OR SELPAC PV-443M.
- 4 CHECKLOCK VALVE; REGO 7580F, OR FISHER F210.

- 5 MULTIVALVE V=10.4", REGO 7556VR, OR FISHER L680AR-120-I, OR SELPAC PV-2033CL.
- 6 3/4"(19MM) NPT PLUG.
- 7 1 1/4"(32MM) NPT PLUG.
- 8 ALL MATERIALS OF CONSTRUCTION SHALL MEET THE REQUIREMENTS OF OF SECTION II OF THE ASME BOILER & PRESSURE VESSEL CODE.



SIDE VIEW



END VIEW

GENERAL NOTES

1. ALL DIMENSIONS ARE IN CENTIMETRES, UNLESS OTHERWISE STATED.
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REVISION

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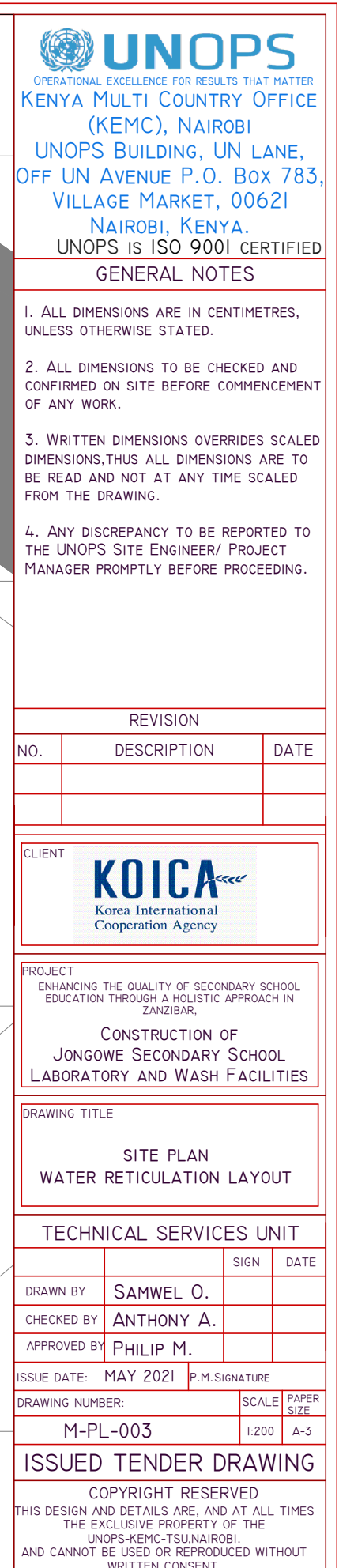
CLIENT	KOICA Korea International Cooperation Agency
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PROJECT	ENHANCING THE QUALITY OF SECONDARY SCHOOL EDUCATION THROUGH A HOLISTIC APPROACH IN ZANZIBAR.
CONSTRUCTION OF	JONGOWE SECONDARY SCHOOL
LABORATORY AND WASH FACILITIES	

DRAWING TITLE	500KG LPG STORAGE TANK DETAILS LAYOUT
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TECHNICAL SERVICES UNIT			
		SIGN	DATE
DRAWN BY	SAMWEL O.		
CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		
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NO.	DESCRIPTION	DATE

KOICA
Korea International
Cooperation Agency

PROJECT
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EDUCATION THROUGH A HOLISTIC APPROACH IN
ZANZIBAR.

CONSTRUCTION OF
JONGOWE SECONDARY SCHOOL
LABORATORY AND WASH FACILITIES

DRAWING TITLE

SITE PLAN
WATER RETICULATION LAYOUT

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CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		

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REVISION

NO.	DESCRIPTION	DATE

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PROJECT
ENHANCING THE QUALITY OF SECONDARY SCHOOL
EDUCATION THROUGH A HOLISTIC APPROACH IN
ZANZIBAR,

CONSTRUCTION OF
JONGOWE SECONDARY SCHOOL
LABORATORY AND WASH FACILITIES

DRAWING TITLE

SITE PLAN
DRAINAGE LAYOUT

TECHNICAL SERVICES UNIT

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CHECKED BY	ANTHONY A.		
APPROVED BY	PHILIP M.		
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