

GENERAL PLUMBING NOTES

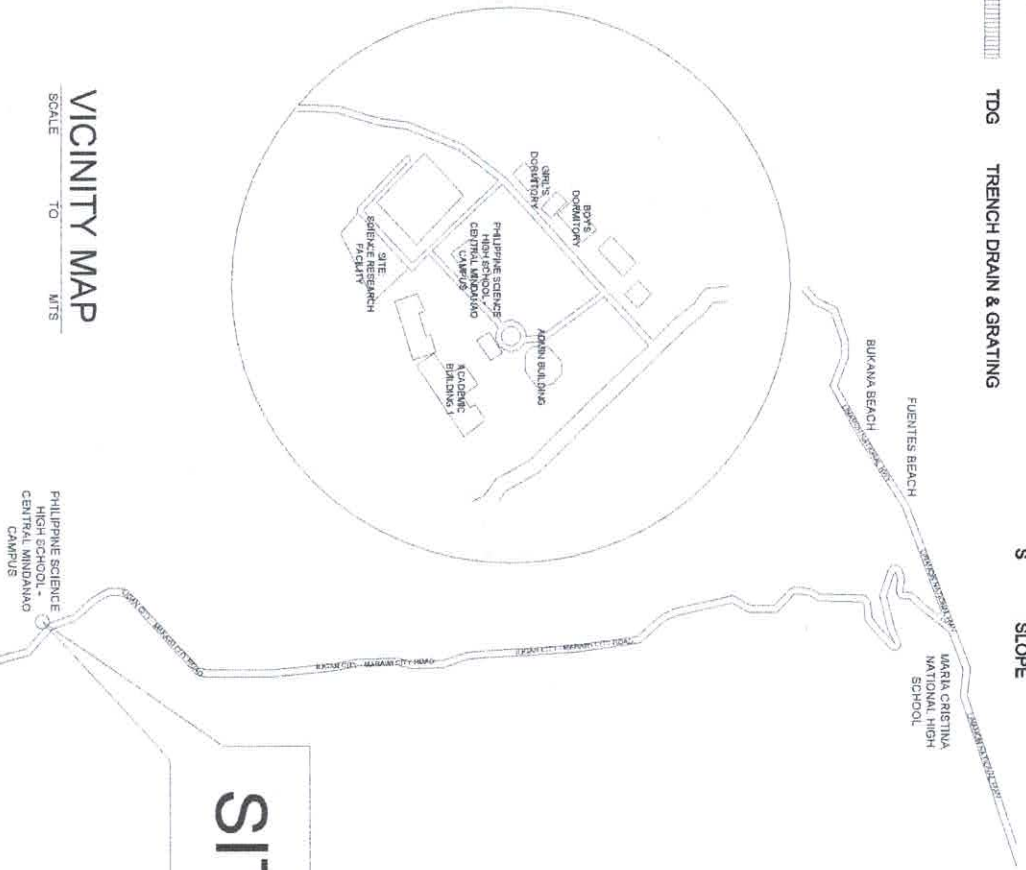
1. ALL POTABLE WATER PIPING WHETHER EMBEDDED IN CONCRETE OR NOT, SHALL BE HDPE SCHEDULE 40 UNLESS OTHERWISE SPECIFIED IN THE DRAWING.
2. ALL STORM DRAINAGE PIPING SHALL BE RCP/PC PIPE UNLESS OTHERWISE SPECIFIED IN THE DRAWING.
3. ALL WASTE & VENT PIPING SHALL BE UPVC PIPE UNLESS SPECIFICALLY NOTED IN THE DRAWING.
4. ALL HORIZONTAL PIPES IN THE CEILING SHALL BE SUPPORTED WITH THE STANDARD PIPE HANGERS AS SHOWN IN MISCELLANEOUS DETAILS.
5. ALL VERTICAL PIPES IN THE CHASE (SHAFTS) SHALL BE ANCHORED IN WALLS OR COLUMNS.
6. ALL PIPES SHOWN IN THE DRAWINGS ARE LOCATED BELOW SLAB UNLESS OTHERWISE SPECIFIED.
7. ALL DIMENSIONS SHALL BE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED IN THE DRAWING.
8. ALL PLUMBING AND DRAINAGE WORKS SHALL CONFORM TO THE NATIONAL PLUMBING CODE OF THE PHILIPPINES & LOCAL ORDINANCES, AND ALL INSTALLATION THEREIN SHALL BE DONE BY THE BEST PRACTICE OF THE PROFESSION SUPERVISED DURING CONSTRUCTION BY A LICENSED MASTER PLUMBER
8. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS OF ALL PIPE PENETRATIONS THRU BEAMS INDICATING PIPE INVERT ELEVATIONS FOR APPROVAL BY THE ENGINEER BEFORE CONSTRUCTION.
10. REFER TO STRUCTURAL DRAWINGS FOR PIPE SLEEVE LOCATIONS.
11. ALL EXPOSED STACKS SHALL BE FIURED IN COORDINATION W/ THE ARCHITECT.
12. ALL REINFORCED CONCRETE WATER TANKS DIRECTLY IN CONTACT WITH WATER SHALL BE PROVIDED WITH WATER PROOFING. PLEASE REFER TO
13. UNLESS OTHERWISE INDICATED IN THE DRAWING, ALL SANITARY SOIL & WASTE PIPES SHALL BE SLOPED AT 2%.
14. VERIFY THE ACTUAL INVERT ELEVATION & THE PIPE ROUTE LEADING TO EXISTING SEWER MANHOLE (SMH) & DRAINAGE MANHOLE (DMH). THE INVERT ELEVATION OF THE PROPOSED SEWER & DRAINAGE PIPES SHALL MATCH THE EXISTING CONDITION. THE CONTRACTOR SHALL PROVIDE NECESSARY EXCAVATION, BACKFILLING, & RESTORATION TO AFFECTED AREAS IN LAYING THE SEWER PIPE, STORM DRAINAGE PIPES & THE WATER SUPPLY LINES.
15. ALL SIZES OF VERTICAL STACKS SHALL BE REFERRED TO RISER DIAGRAMS.
16. ALL PIPINGS FOR DOMESTIC WATER SUPPLY SHALL BE HYDROSTATICALLY TESTED AT 10 kg/cm FOR A DURATION OF TWO HOURS BEFORE IT IS BURIED OR COVERED.
17. ALL BRANCHES OF FIXTURES OR GROUP OF FIXTURES SHALL BE PROVIDED WITH AIR CHAMBER MADE OF CAPED VERTICAL EXTENSION PIPE WITH A MINIMUM LENGTH OF 300 mm.
18. ALL IN HOUSE CONNECTIONS MADE FOR DOMESTIC WATER SUPPLY SHALL BE WITH THE USE OF STANDARD FITTINGS. NO CONNECTIONS SHALL BE CARRIED OUT WITH DIRECT WELDING TO THE TAPPING LINE WITHOUT PRIOR APPROVAL FROM THE SANITARY ENGINEER ASSIGNED.
19. THERE SHALL BE A CONTROL VALVE OF ACCEPTABLE QUALITY TO BE PROVIDED IN EVERY MAIN BRANCH OF DOMESTIC WATER SUPPLY FOR EACH STOREY.
20. SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL NOT BE LESS THAN THE RECOMMENDED DIAMETER BY THE MANUFACTURERS
21. THE CONTRACTOR SHALL COORDINATE, VERIFY AND SUBMIT FOR APPROVAL TO LOCAL WATER DISTRICT THE TAPPING / INTERCONNECTION DETAILS OF THE WORK PRIOR TO IMPLEMENTATION.

LEGEND & SYMBOLS:

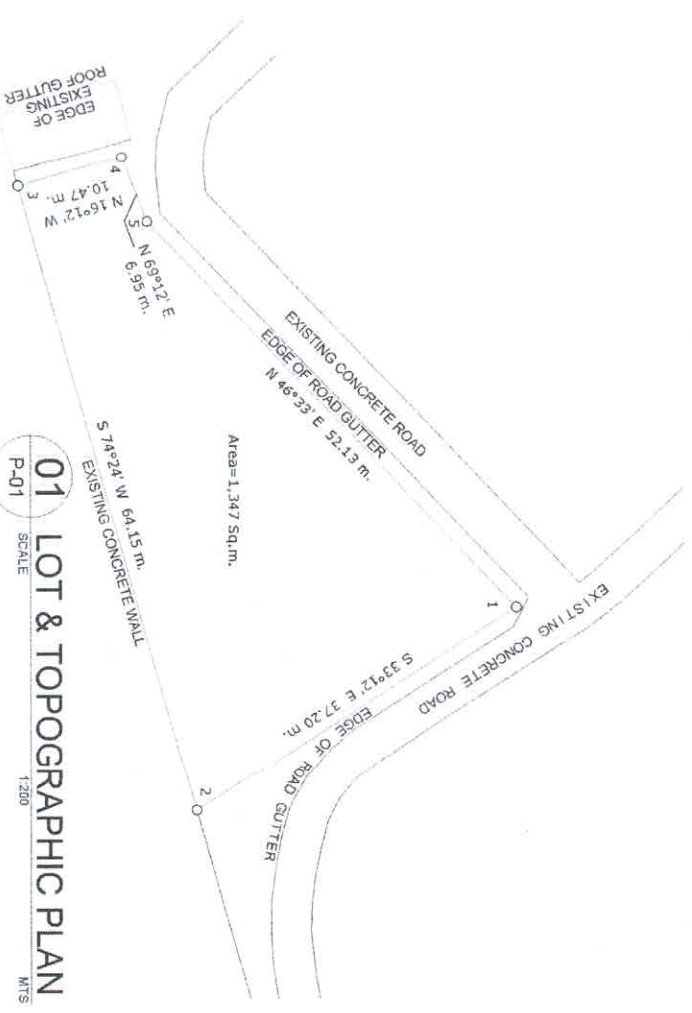
WATER DISTRIBUTION SYSTEM			SEWER, WASTE & VENT SYSTEM		
WL	WATER LINE	SP	SEWER PIPE		
GV	GATE VALVE	VENT	VENT LINE		
CV	CHECK VALVE	WP	KITCHEN WASTE LINE		
FC	FLEXIBLE CONNECTION	SSVS	SOIL/VENT/ WASTE STACK		
HB	HOSE BIBB	WVS	WASTE STACK		
WM	WATER METER	VSTR	VENT STACK THRU ROOF		
FV	UNION PATENTE	FCO	FLOOR CLEANOUT		
	FLOAT VALVE	CCO	CEILING CLEANOUT		
		FD	FLOOR DRAIN		
DRAINAGE SYSTEM			PLUMBING FIXTURES		
DP	DRAIN PIPE	LAV	LAVATORY		
AWP	AIRCON WASTE PIPE	WC	WATER CLOSET		
ADCB	AREA DRAIN/CATCH BASIN	UR	URINAL		
TDG	TRENCH DRAIN & GRATING	S	SLOPE		

VICINITY MAP

SCALE TO MTS



TECHNICAL DESCRIPTIONS		
LINE	BEARING	DISTANCE
LAND		
1	S 33°12' E	37.20 m.
2	S 74°24' W	64.15 m.
3	N 16°12' W	10.47 m.
4	N 69°12' E	6.95 m.
5	N 46°33' E	52.13 m.

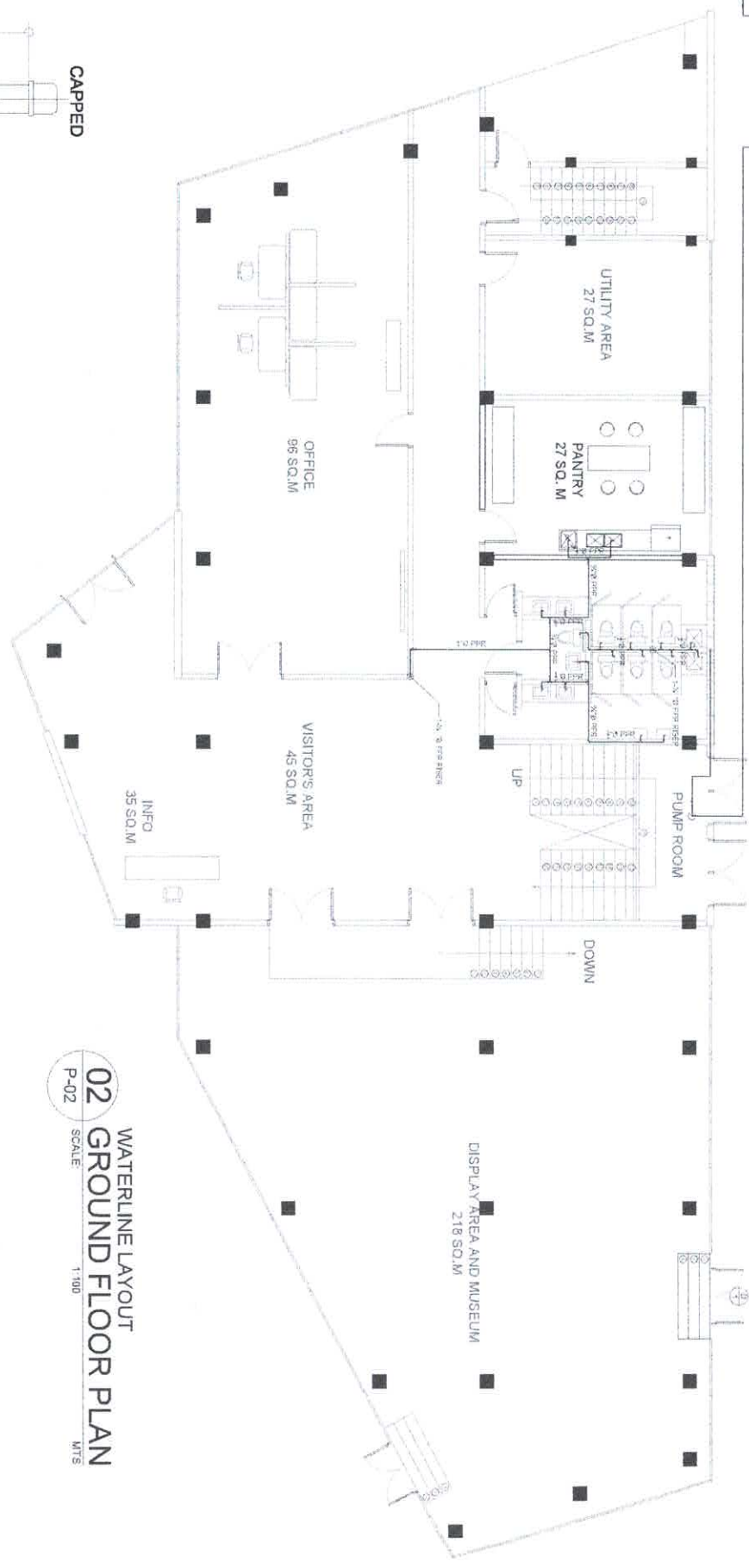
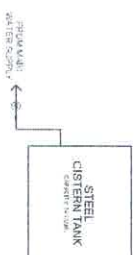


SPECIFICATION:

1. ALL HORIZONTAL PIPINGS SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 2% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL NOT TO EXCEED 10 FEET.
 2. ALL PIPES PASSING THRU OR UNDER WALLS AND DRIVEWAYS SHALL BE PROPERLY PROTECTED AGAINST BREAKAGE.
 3. ALL CALLED JOINT SHALL BE PROPERLY PACKED WITH OAKUM OR OIL REATED HEMP AND SHALL BE PROPERLY SECURED ONLY WITH PURE LEAD NOT LESS THAN 1" DEEP WELL CALVERED.
 4. WORKMANSHIP SHALL BE OF SUCH CHARACTER AS TO FULLY SECURE HE RESULT SOUGHT IN ALL THE PROVISIONS OF THE NATIONAL PLUMBING CODE
- CERTIFICATION :**
- THIS IS TO CERTIFY THAT THERE IS NO ARTISIAN WELL WITHIN A RADIUS OF 25.00 METERS FROM THE SEPTIC VAULT.

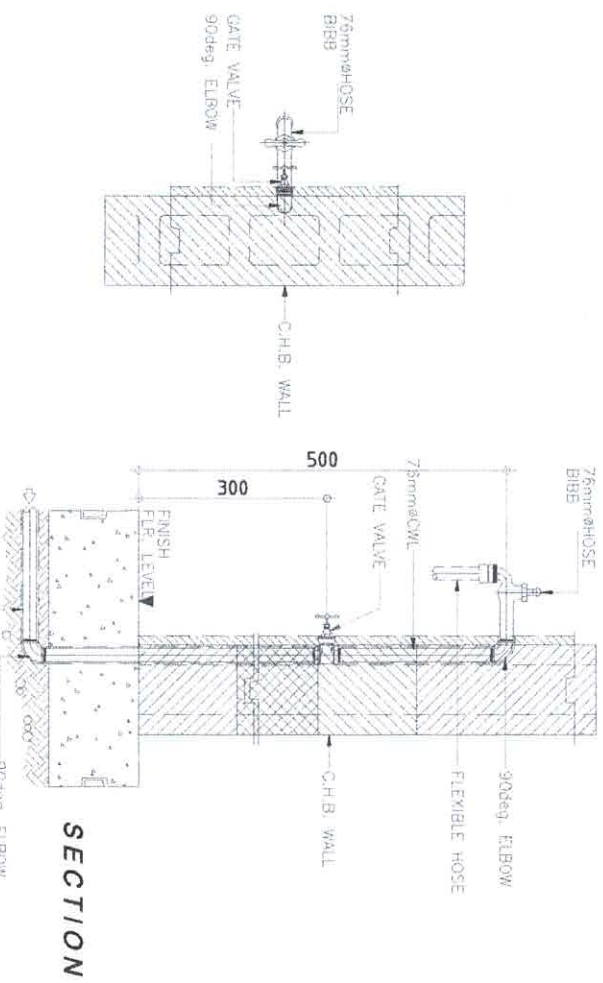
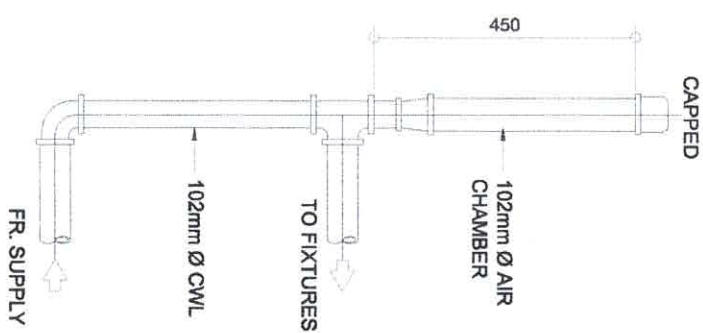
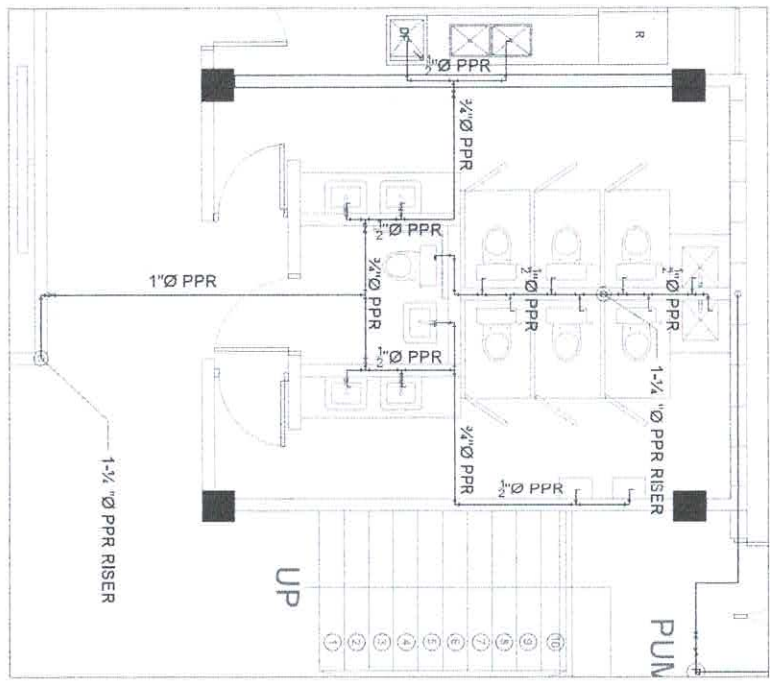
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PRC : 0003233 PTR : 3343426 TIN : 419-332-951	REG. DATE: 09-05-2017 DATE: 02-28-2019 PLACE ISSUED: TALISAY CITY	LOCATION: NANGKA, BALOH LAMAO DEL NORTE	ADDRESS: NANGKA, BALOH LAMAO DEL NORTE					PLUMBING

REPUBLIC OF THE PHILIPPINES
Office of the Building Official
LAMAO DEL NORTE
RECOMMENDING ISSUANCE
EXAMINER SECTION
DATE
ISSUED BY:
BUILDING OFFICIAL
DATE



LEGEND:

- 1 1/2" Ø PPR - MAIN SOURCE
- 1" Ø PPR - RISER
- 1" Ø PVC - MAIN LINE
- 3/4" Ø PPR - DISTRIBUTING LINE
- 1/2" Ø PVC - TO FIXTURE



ELU BUILDERS, Incorporated
CONTRACTORS • ENGINEERS • ARCHITECTS

JOHN RAY L. SANDERO
SANITARY ENGINEER

PRC : 0003233
PTR : 3343426
REG. DATE: 09-05-2017
DATE: 02-28-2019
PLACE ISSUED: TALISAY CITY

PROJECT TITLE:

A PROPOSED 3-STORY SCIENCE
RESEARCH FACILITY

OWNER

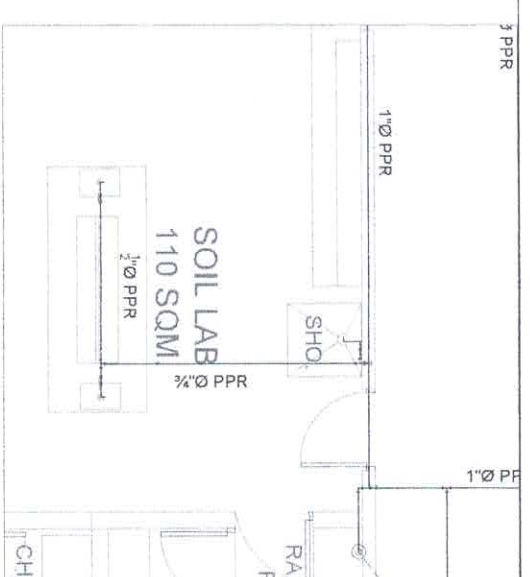
PHILIPPINE SCIENCE HIGH SCHOOL-
CENTRAL MINDANAO CAMPUS

SHEET CONTENTS

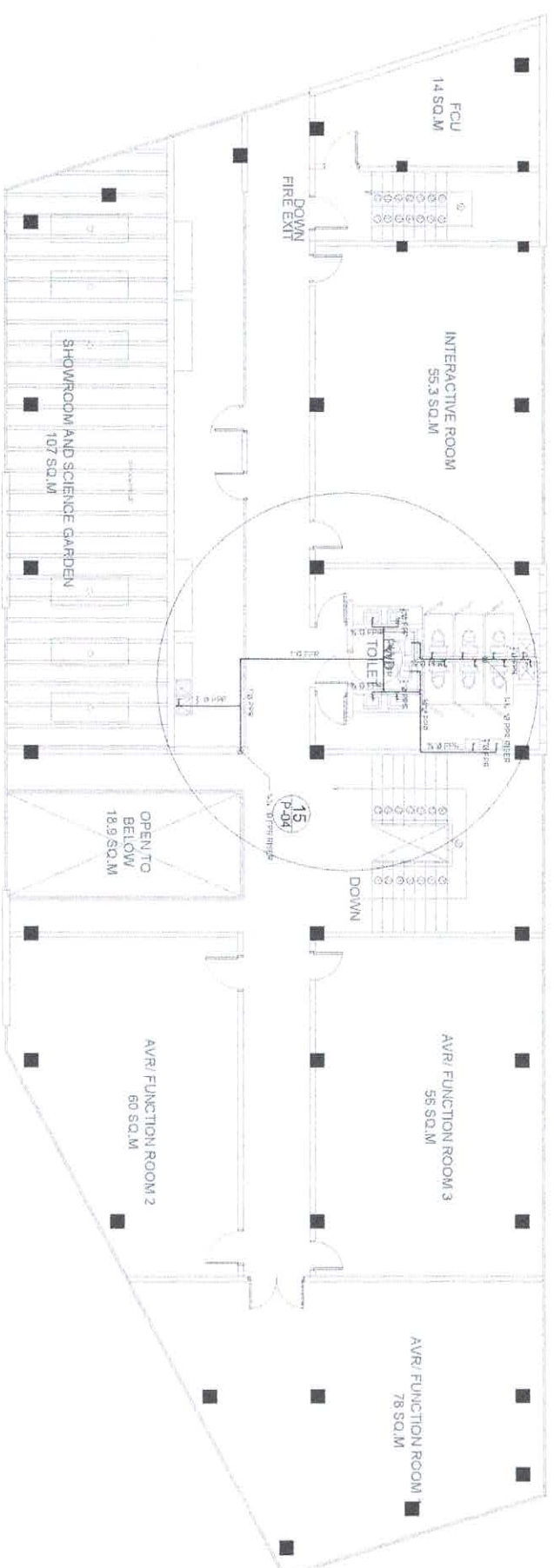
NO. DESCRIPTION DATE

SHEET NO.

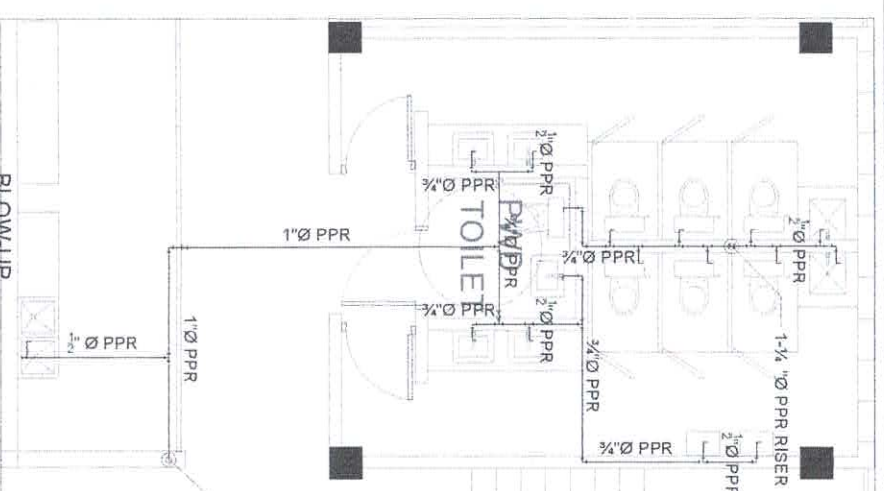
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2 9
PLUMBING



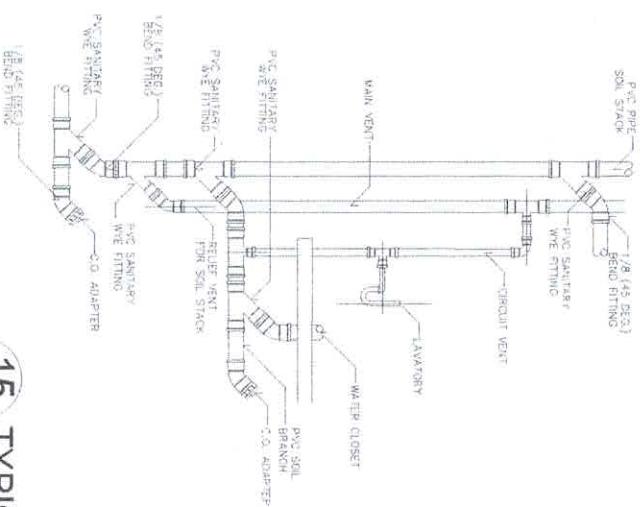
BUILDING OFFICIAL	DATE
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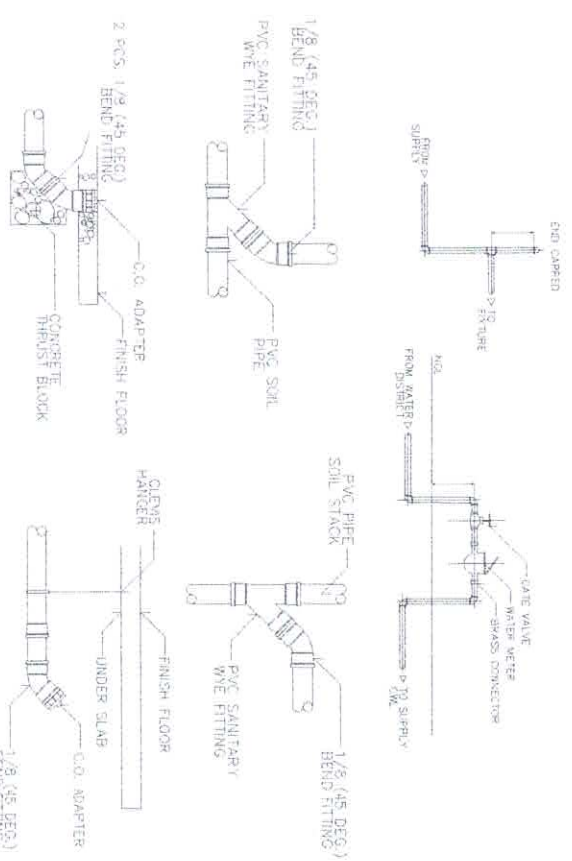
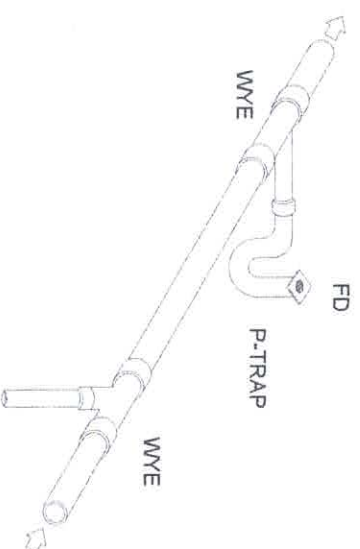
WATERLINE LAYOUT
13 THIRD FLOOR PLAN
P-04 SCALE 1:100 MTS



14 COMFORT ROOM
SCALE 1:50 MTS
P-04



15 TYPICAL SEWERLINE INSTALLATION



16 TYPICAL JOINT DETAIL

FROM THE OFFICE OF		SEAL		PROJECT TITLE		OWNER		SHEET CONTENTS:		REVISIONS		SHEET NO.	
 ELJ BUILDERS, Incorporated CONTRACTORS • ENGINEERS • ARCHITECTS		JOHN RAY BRANDERO SAMBART ENGINEER		A PROPOSED 3-STOREY SCIENCE RESEARCH FACILITY		PHILIPPINE SCIENCE HIGH SCHOOL- CENTRAL MINDANAO CAMPUS		AS-SHOWN		NO. DESCRIPTION DATE		P-4 4 9 PLUMBING	
PRC : 0003233 PTR : 3343426 TIN : 419-332-951		REG. DATE : 09-05-2017 DATE : 02-28-2019											
PLACE ISSUED: TALISAY CITY				LOCATION: NANGKA BALOH-LANAO DEL NORTE		ADDRESS: NANGKA BALOH-LANAO DEL NORTE							

REPUBLIC OF THE PHILIPPINES
Office of the Building Official
LANAO DEL NORTE

RECOMMENDING ISSUANCE

SANITARY SECTION DATE

ISSUED BY

BUILDING OFFICIAL	DATE

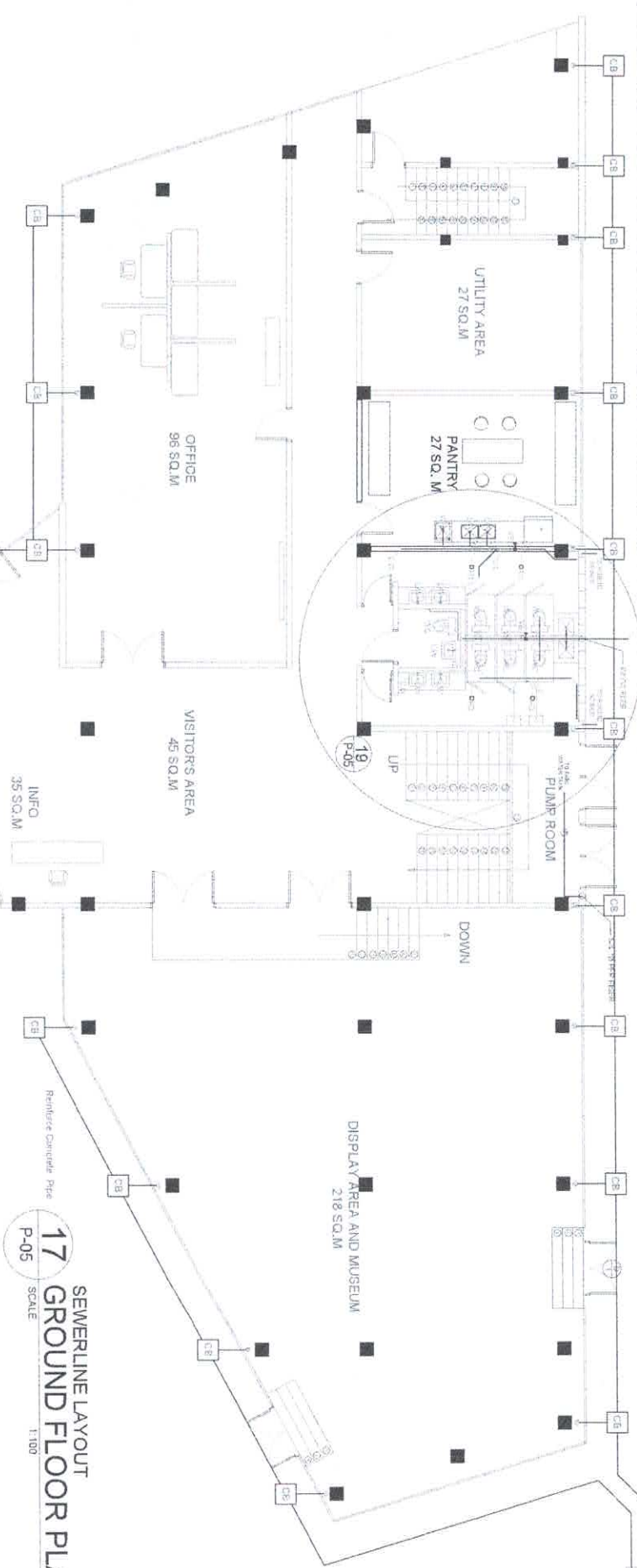
LEGEND:

- | | | |
|--------------|---|-------------------|
| 1 1/4" Ø PPR | - | MAIN SOURCE |
| | - | RISER |
| 1" Ø PVC | - | MAIN LINE |
| 3/4" Ø PPR | - | DISTRIBUTING LINE |
| 3/8" Ø PVC | - | TO FIXTURE |

AS-SHO'UN

SEPTIC TANK

RAIN WATER TANK

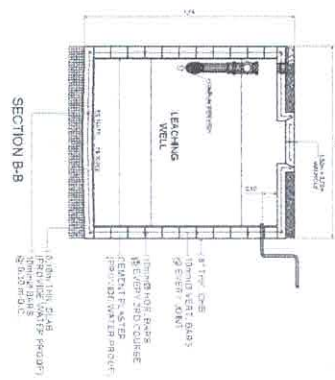
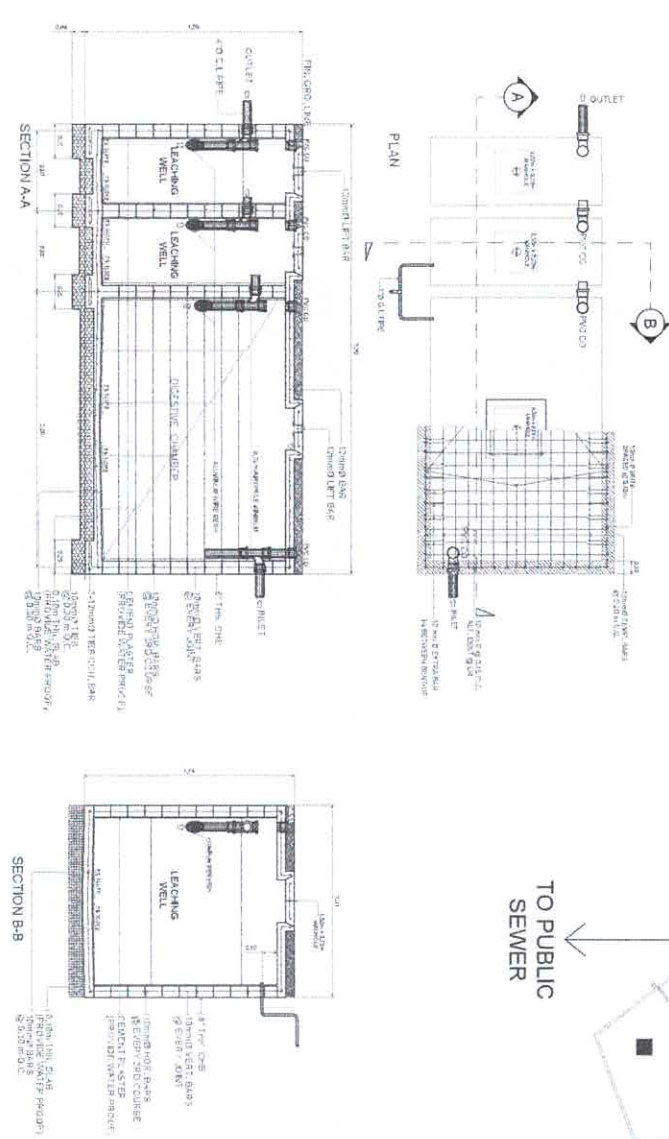


17 GROUND FLOOR PLAN
SCALE 1:100
WTS

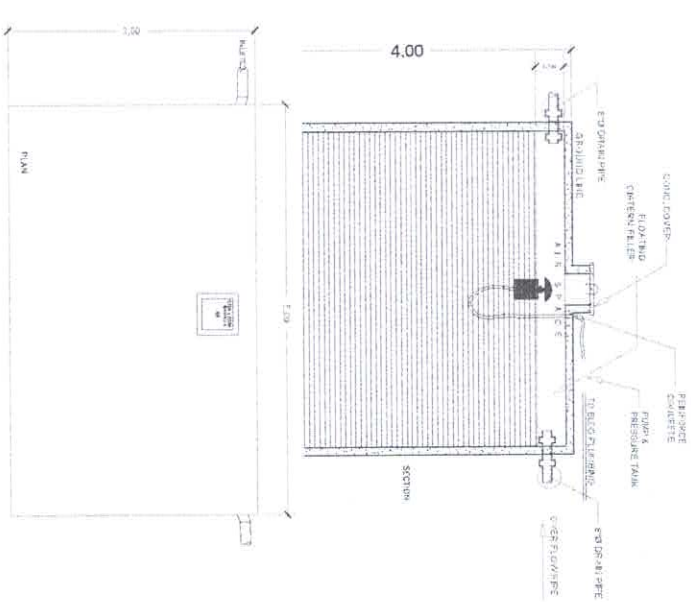
LEGEND:

- 4"Ø PVC - MAIN RISER
- 3"Ø PVC - CLEAN-OUT
- 2"Ø PVC - WATER CLOSET DOWNSPOUT
- 2"Ø PVC - FLOOR DRAIN
- 2"Ø PVC - LAVATORY

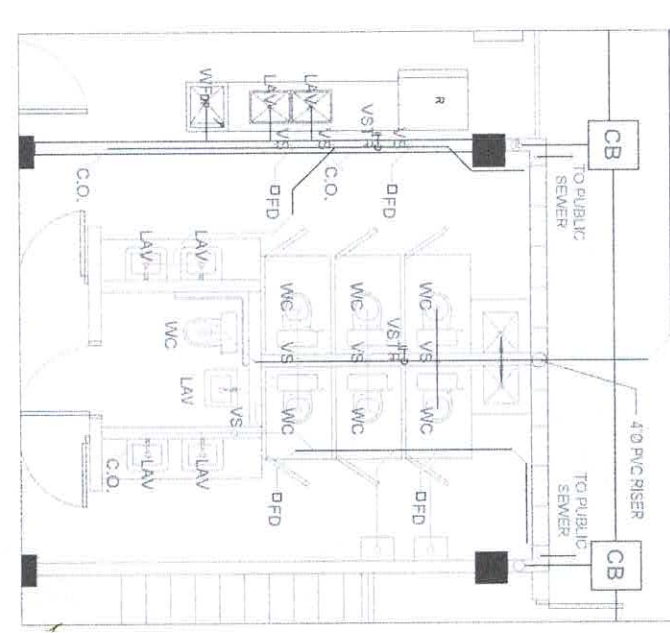
REPUBLIC OF THE PHILIPPINES	
Office of the Building Official	
LANAO DEL NORTE	
RECOMMENDING ISSUANCE	DATE
CADASTRAL SECTION	DATE
ISSUED BY:	DATE
BUILDING OFFICIAL	DATE



18 SEPTIC TANK DETAIL
SCALE 1:30
WTS



19 RAIN WATER TANK
SCALE 1:60
WTS



20 BLOW-UP COMFORT ROOM
SCALE 1:60
WTS

FROM THE OFFICE OF
ELJ BUILDERS, Incorporated
CONTRACTORS • ENGINEERS • ARCHITECTS

JOHN P. CABANDERO
SANITARY ENGINEER
PRC : 0003233
PTR : 3343426
TIN : 419-332-951
REG. DATE: 09-05-2017
DATE: 02-28-2019
PLACE ISSUED: TALISAY CITY

PROJECT TITLE:
A PROPOSED 3-STOREY SCIENCE RESEARCH FACILITY

OWNER:
PHILIPPINE SCIENCE HIGH SCHOOL- CENTRAL MINDANAO CAMPUS

ADDRESS: NANAKA, BALOI, LANAO DEL NORTE

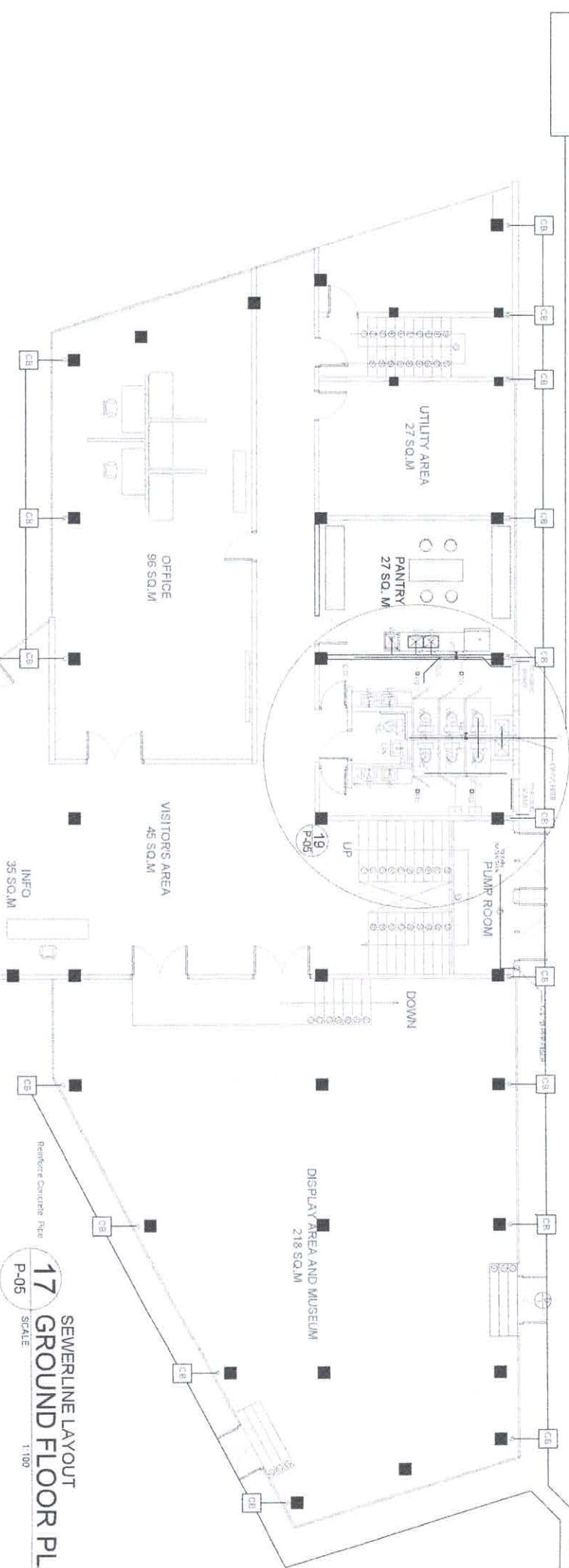
NO.	REVISIONS	DATE
1	AS-SHOWN	

SHEET NO. **P-5**
59
PLUMBING

FOR APPROVAL

SEPTIC TANK

RAIN WATER TANK



17 GROUND FLOOR PLAN
SCALE 1:100
P-05

LEGEND:

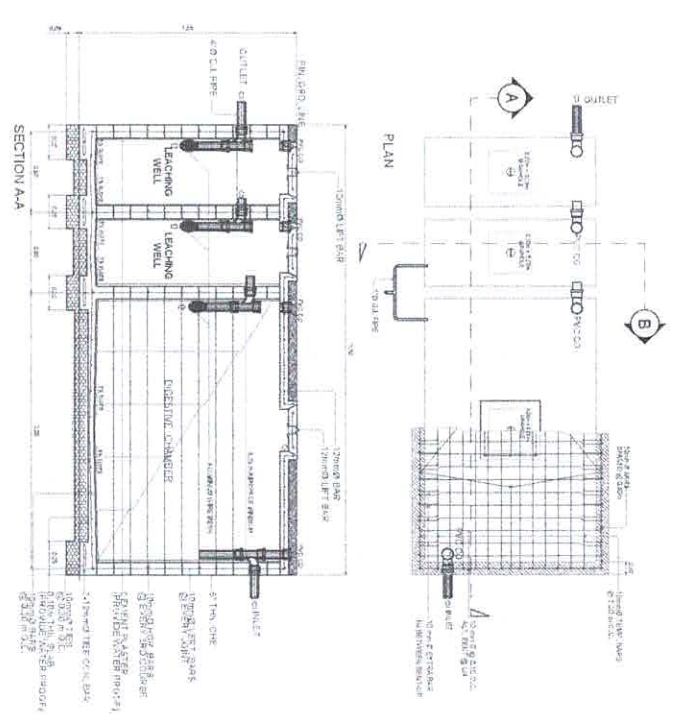
- 4"Ø PVC - MAIN RISER
- 3"Ø PVC - CLEAN-OUT
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- 2"Ø PVC - FLOOR DRAIN
- LAVATORY

REPUBLIC OF THE PHILIPPINES
Office of the Building Official
LANAO DEL NORTE

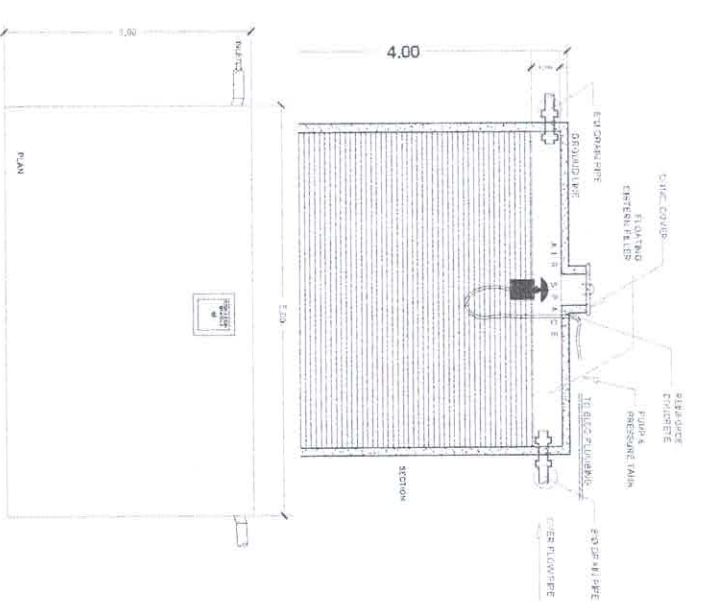
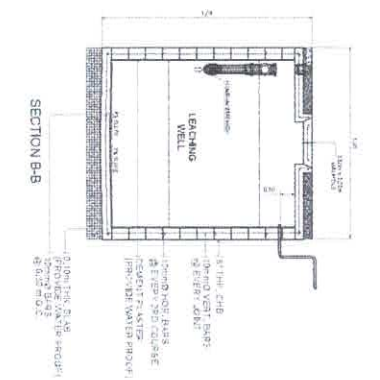
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DATE

ISSUED BY:
DATE

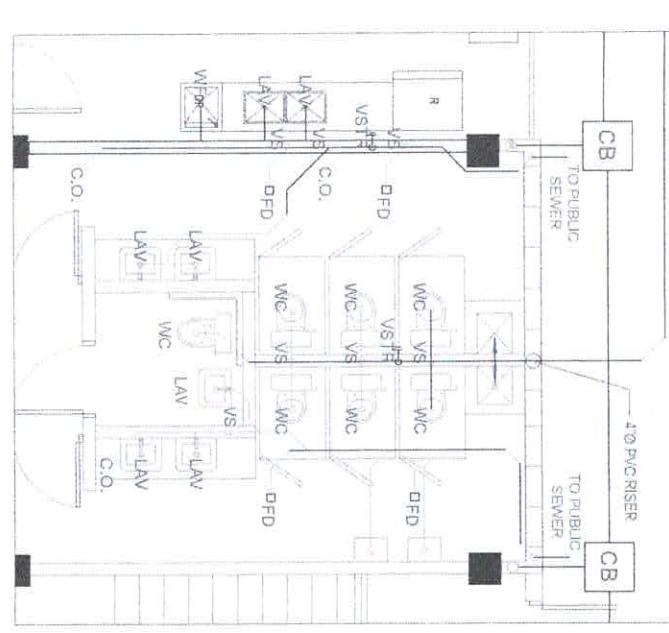
BUILDING OFFICIAL
DATE



18 SEPTIC TANK DETAIL
SCALE 1:30
P-05



19 RAIN WATER TANK
SCALE 1:50
P-05



20 COMFORT ROOM
SCALE 1:50
P-05

FROM THE OFFICE OF:



ELJ BUILDERS, Incorporated
CONTRACTORS - ENGINEERS - ARCHITECTS

JOHN RAY LABANDERO
SANITARY ENGINEER

SEAL

PROJECT TITLE:

A PROPOSED 3-STOREY SCIENCE
RESEARCH FACILITY

OWNER:

PHILIPPINE SCIENCE HIGH SCHOOL-
CENTRAL MINDANAO CAMPUS

SHEET CONTENTS:

AS-SHOWN

REVISIONS
NO. DESCRIPTION DATE

SHEET NO.
P-5
5 9

PLUMBING

PRC : 0003233

REG. DATE: 09-05-2017

PTR : 3343426

DATE: 02-28-2019

PLACE ISSUED: TALISAY CITY

LOCATION: NANOKA BALOH, LANAO DEL NORTE

ADDRESS: NANOKA BALOH, LANAO DEL NORTE

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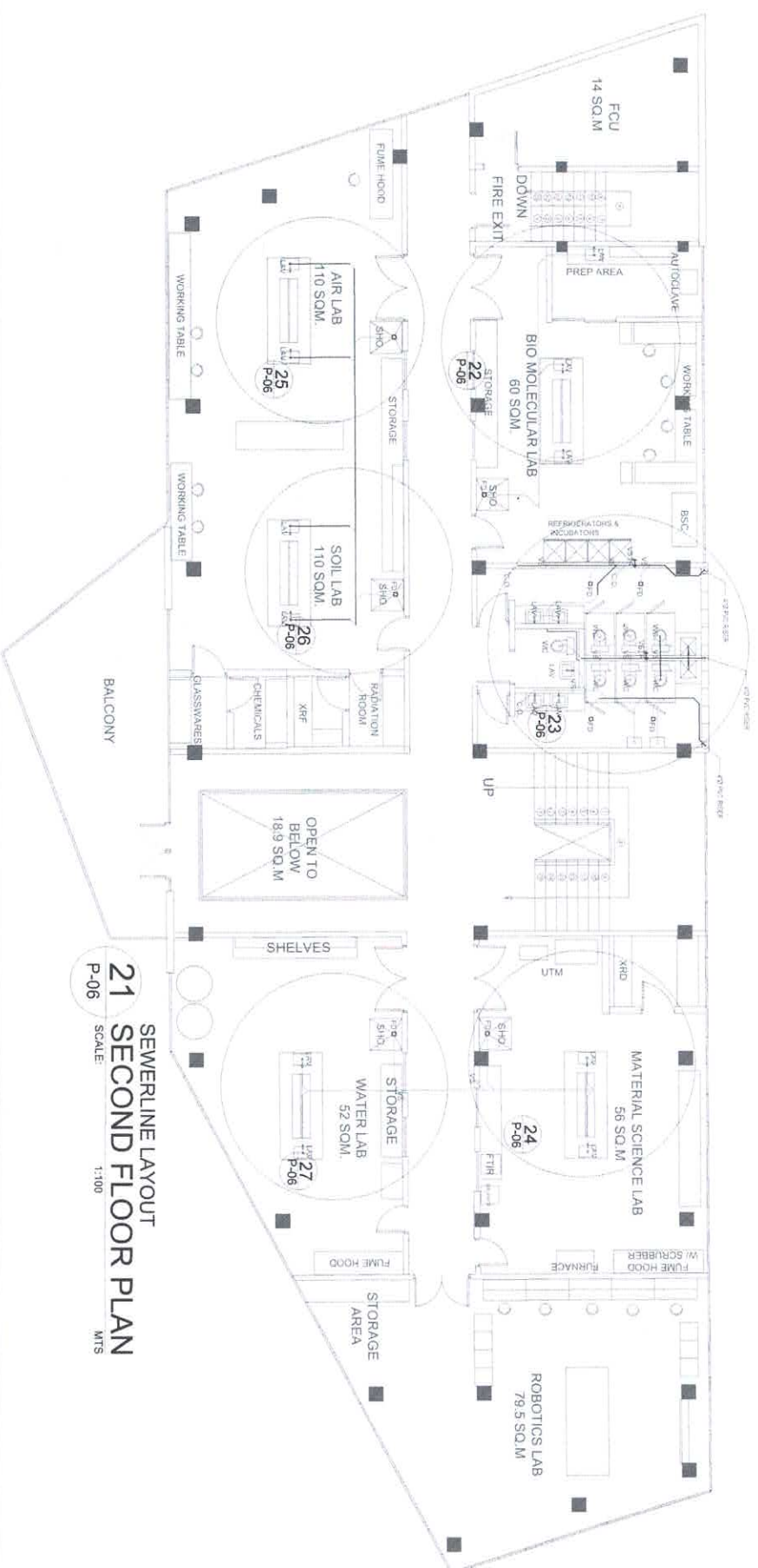
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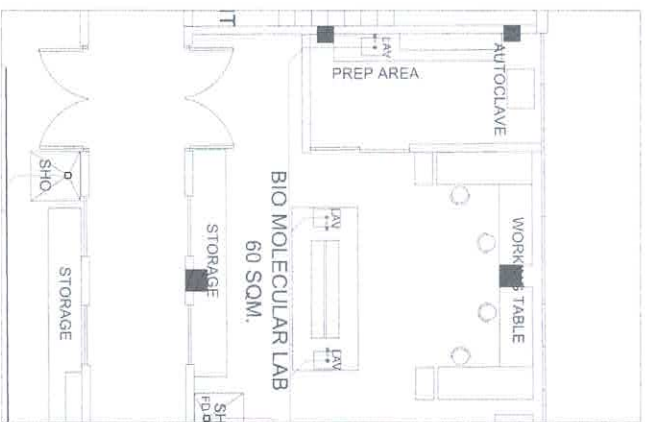
LEGEND:

- 4"Ø PVC - MAIN
- 3"Ø PVC - RISER
- 2"Ø PVC - CLEAN-OUT
- 2"Ø PVC - WATER CLOSET
- 2"Ø PVC - FLOOR DRAIN
- 2"Ø PVC - LAVATORY

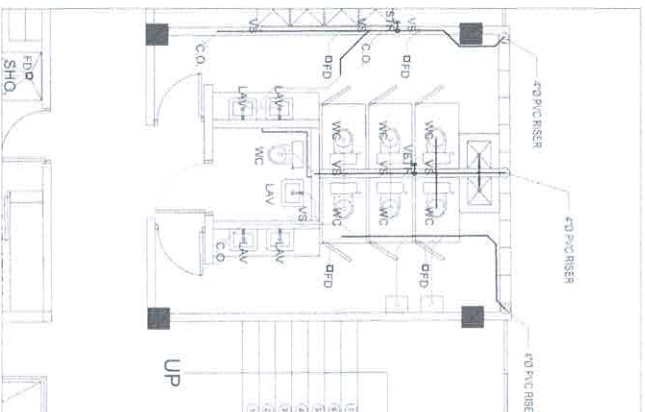
SEWERLINE LAYOUT
21 SECOND FLOOR PLAN
SCALE: 1:100
P-06 MTS



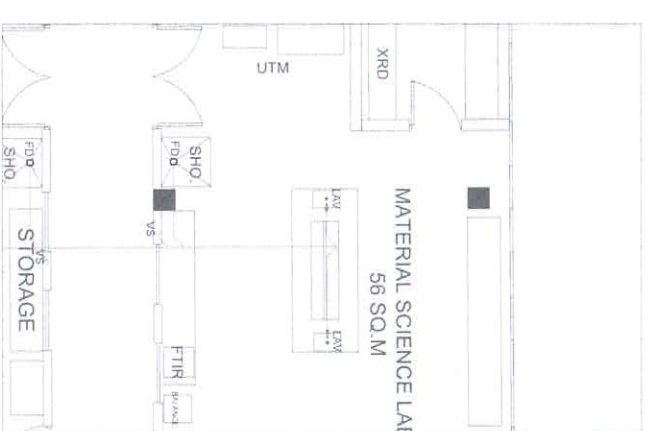
BLOW-UP
22 BIO MOLECULAR LAB
SCALE: 1:50
P-06 MTS



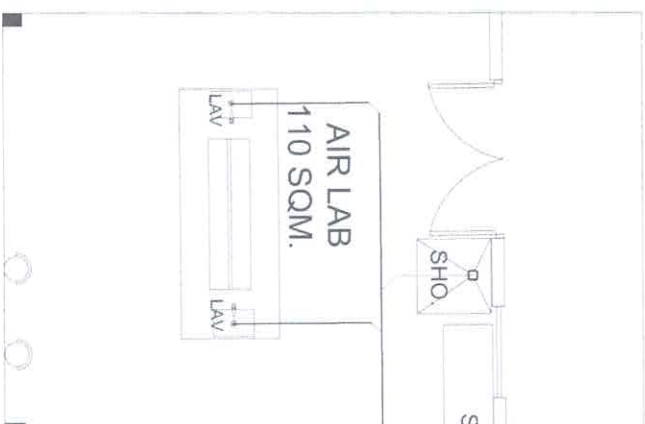
BLOW-UP
23 COMFORT ROOM
SCALE: 1:50
P-06 MTS



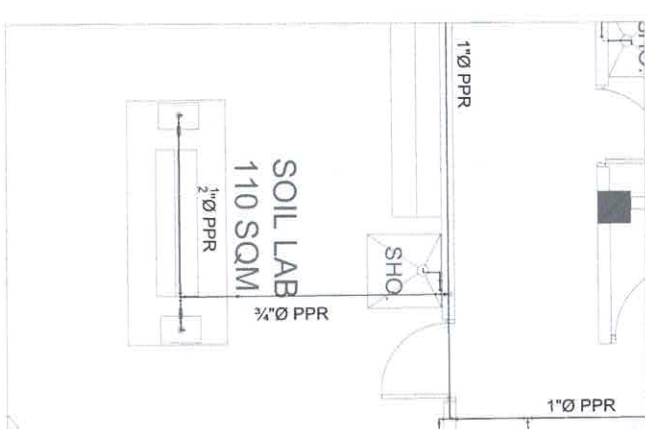
BLOW-UP
24 MATERIAL SCIENCE LAB
SCALE: 1:50
P-06 MTS



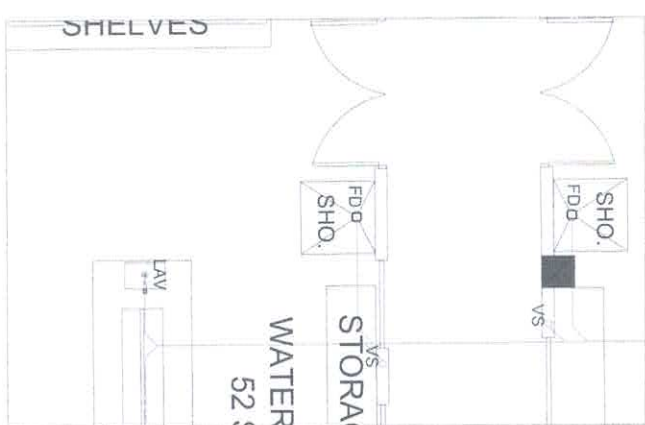
BLOW-UP
25 AIR LABORATORY
SCALE: 1:50
P-06 MTS



BLOW-UP
26 SOIL LABORATORY
SCALE: 1:50
P-06 MTS



BLOW-UP
27 WATER LABORATORY
SCALE: 1:50
P-06 MTS



FROM THE OFFICE OF



JOHN RAY L. SANDERO
SANITARY ENGINEER

PRC : 0003233
PTR : 3343426
TIN : 419-332-951

REG. DATE: 09-05-2017
DATE: 02-28-2019
PLACE ISSUED: TALISAY CITY

SEAL

PROJECT TITLE:

A PROPOSED 3-STOREY SCIENCE
RESEARCH FACILITY

OWNER:

PHILIPPINE SCIENCE HIGH SCHOOL-
CENTRAL MINDANAO CAMPUS

SHEET CONTENTS:

AS-SHOWN

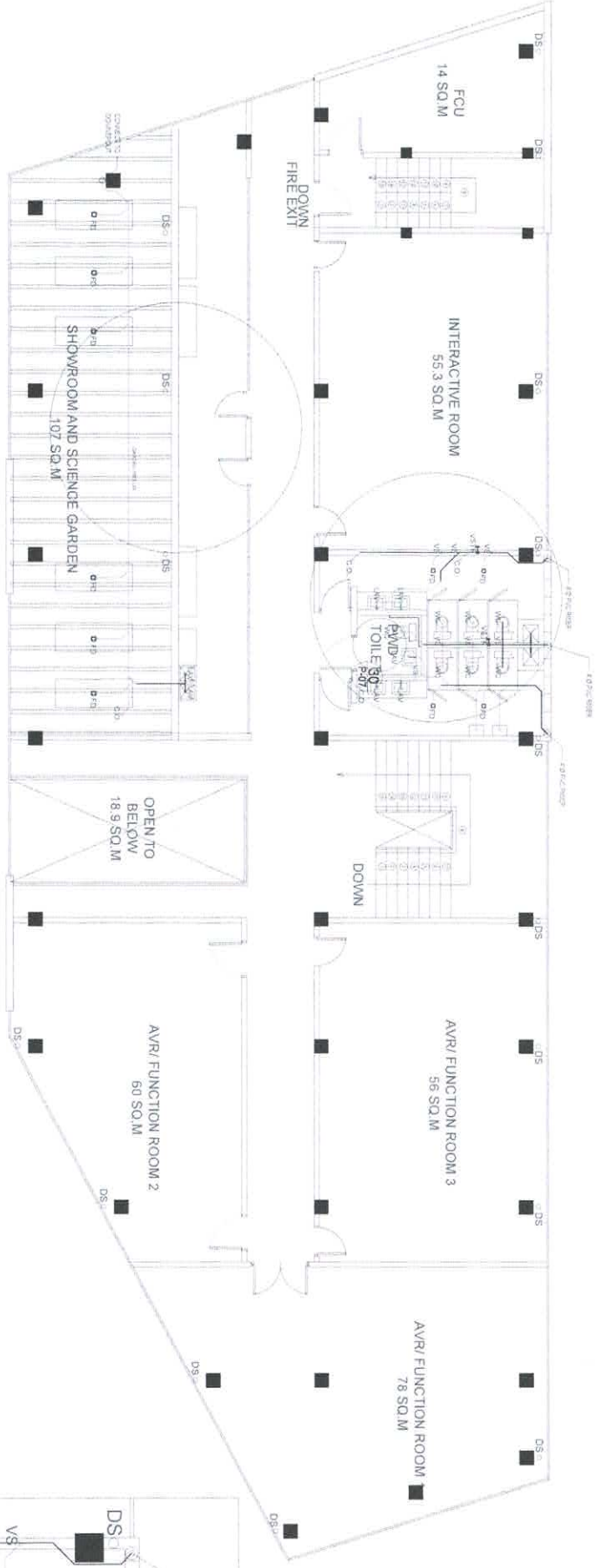
NO. DESCRIPTION DATE

SHEET NO.

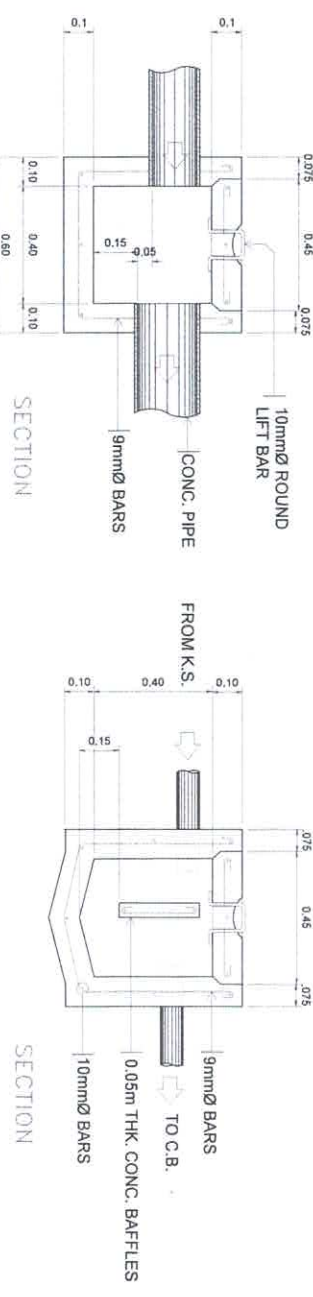
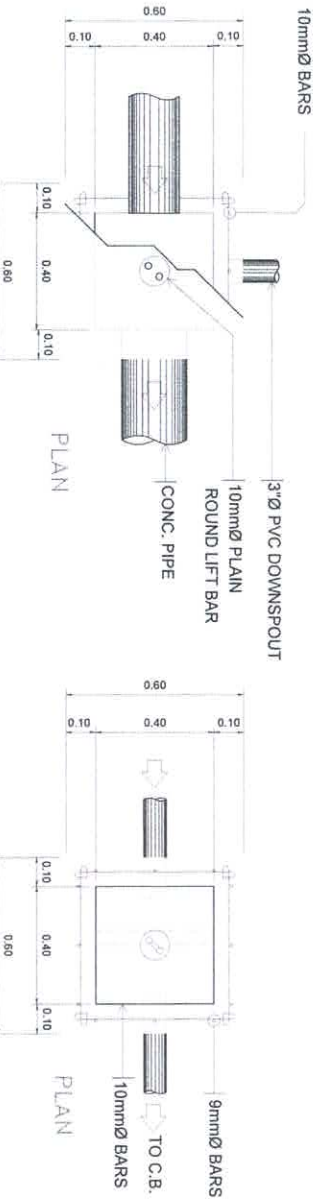
P-6
6 9
PLUMBING

LEGEND:

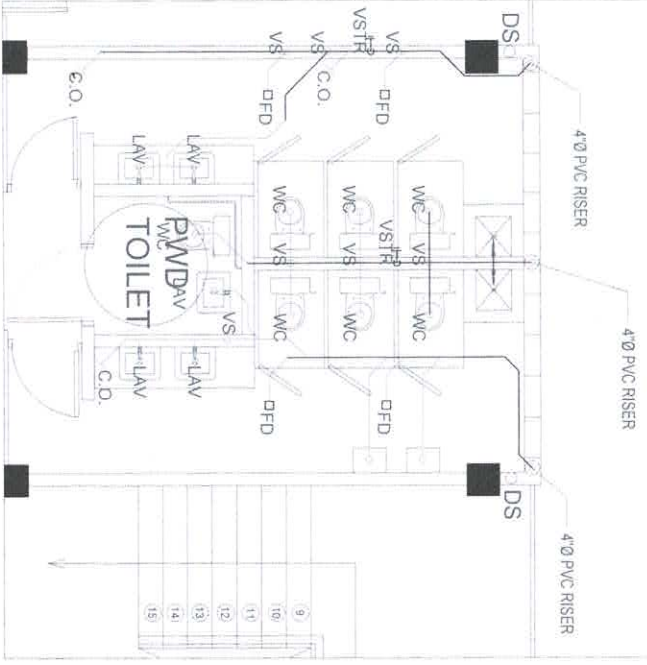
- 4"Ø PVC - MAIN
- RISER
- CLEAN-OUT
- WATER CLOSET
- DOWNSPOUT
3"Ø PVC - FLOOR DRAIN
2"Ø PVC - LAVATORY



SEWERLINE LAYOUT
28 THIRD FLOOR PLAN
P-07 SCALE: 1:100 MTS



BLOW-UP
30 CATCH BASIN
P-07 SCALE: 1:15 MTS



BLOW-UP
29 COMFORT ROOM
P-07 SCALE: 1:50 MTS



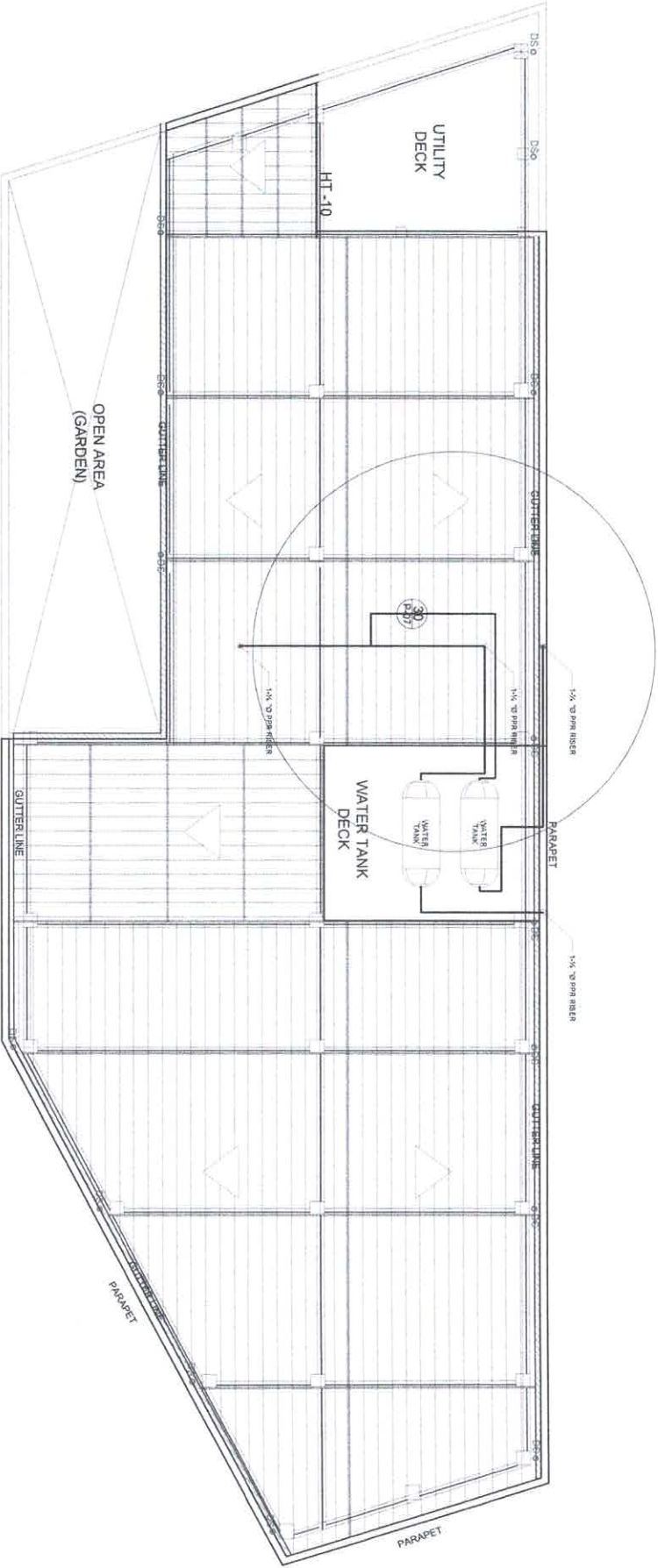
BLOW-UP
31 SHOWROOM AND SCIENCE GARDEN
P-07 SCALE: 1:50 MTS

FROM THE OFFICE OF:	PROJECT TITLE:	OWNER:	SHEET CONTENTS:	SHEET NO.
ELU BUILDERS, Incorporated CONTRACTORS • ENGINEERS • ARCHITECTS	A PROPOSED 3-STOREY SCIENCE RESEARCH FACILITY	PHILIPPINE SCIENCE HIGH SCHOOL- CENTRAL MINDANAO CAMPUS	AS-SHOWN	P-7 7 9 PLUMBING
JOHN B. LABANDERO SENIOR ENGINEER	DATE: 02-28-2019	ADDRESS: NANGKA, BALOI, LANAO DEL NORTE		
PRC : 0003233 PTR : 3343426 TIN : 419-332-951	REG. DATE: 09-05-2017			

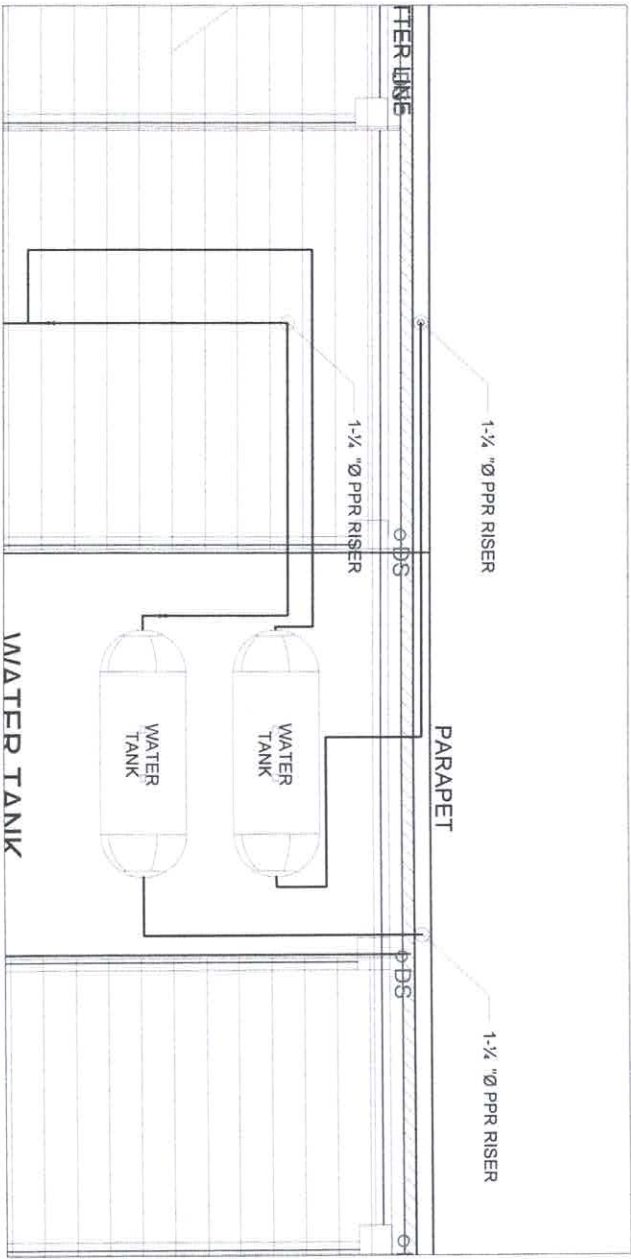
FOR BIDDING

LEGEND:

- 4"Ø PVC - MAIN
- RISER
- CLEAN-OUT
- WATER CLOSET
- DOWNSPOUT
3"Ø PVC - FLOOR DRAIN
2"Ø PVC - LAVATORY



SEWERLINE LAYOUT
32 THIRD FLOOR PLAN
P-07 SCALE 1:100 MTS



BLOW-UP
33 ROOF PLAN
P-07 SCALE 1:50 MTS

FROM THE OFFICE OF:



JOHN RAY M. SANDERO
SANITARY ENGINEER

PRC : 0003233 REG DATE: 09-05-2017

PTR : 3943426 DATE: 02-28-2019

TIN : 419-332-951 PLACE ISSUED: TALISAY CITY

SEAL

PROJECT TITLE:

A PROPOSED 3-STOREY SCIENCE
RESEARCH FACILITY

OWNER:

PHILIPPINE SCIENCE HIGH SCHOOL-
CENTRAL MINDANAO CAMPUS

SHEET CONTENTS:

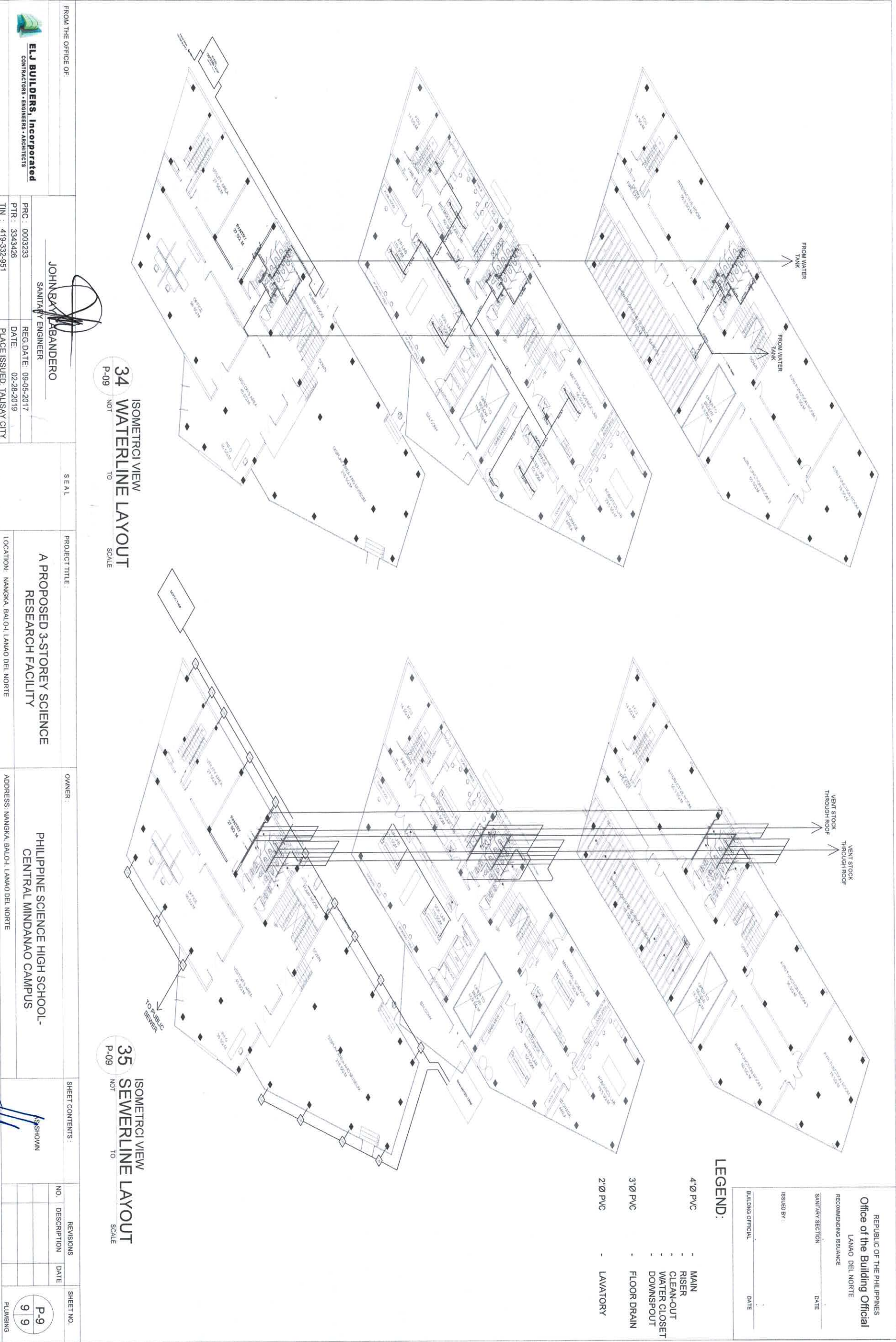
AS-SHOWN

NO.	DESCRIPTION	DATE

SHEET NO.

P-8
8 9
PLUMBING

RECOMMENDING



ISOMETRIC VIEW
34 WATERLINE LAYOUT
P-09 NOT TO SCALE

ISOMETRIC VIEW
35 SEWERLINE LAYOUT
P-09 NOT TO SCALE

REPUBLIC OF THE PHILIPPINES
Office of the Building Official
LANAO DEL NORTE
RECOMMENDING ISSUANCE

SANITARY SECTION
DATE

ISSUED BY :
BUILDING OFFICIAL
DATE

LEGEND:

- 4" PVC - MAIN
- 3" PVC - RISER
- 2" PVC - CLEAN-OUT
- 2" PVC - WATER CLOSET
- 2" PVC - DOWNSPOUT
- 2" PVC - FLOOR DRAIN
- 2" PVC - LAVATORY

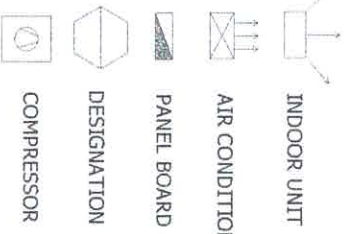
FROM THE OFFICE OF:		PROJECT TITLE:		OWNER:		SHEET CONTENTS:		SHEET NO.	
ELJ BUILDERS, Incorporated CONTRACTORS • ENGINEERS • ARCHITECTS		A PROPOSED 3-STOREY SCIENCE RESEARCH FACILITY		PHILIPPINE SCIENCE HIGH SCHOOL- CENTRAL MINDANAO CAMPUS		NO. DESCRIPTION DATE		P-9 PLUMBING	
JOHN BAY LABANDERO SANITARY ENGINEER		REG. DATE: 09-05-2017 DATE: 02-28-2019 PLACE ISSUED: TALISAY CITY		ADDRESS: NANOGA, BALOI-1, LANAO DEL NORTE		REVISIONS			
PRC : 0003233 PTR : 3343426 TIN : 419-332-951									



MECHANICAL NOTES:

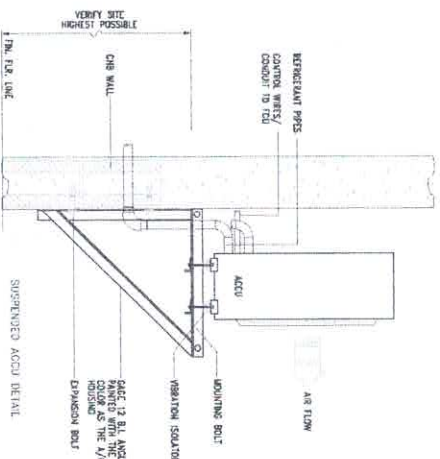
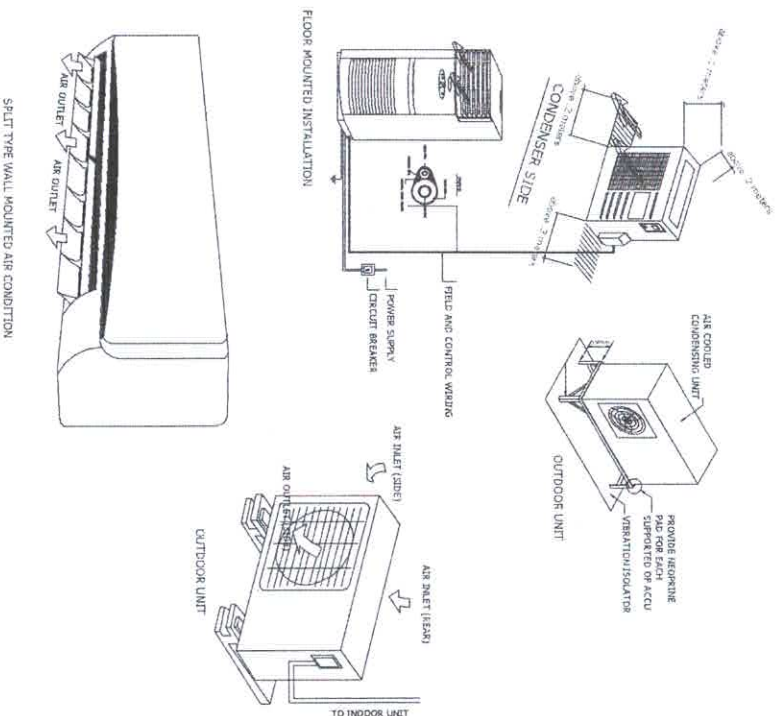
1. ALL MECHANICAL INSTALLATION SHALL CONFORM TO THE RULES AND REGULATIONS OF RA 8495 OTHERWISE KNOWN AS THE MECHANICAL ENGINEERING ACT OF 1998 OF THE PHILIPPINES, BUILDING CODE, AND THE LATEST LOCAL SAFETY ORDINANCE.
2. THE WHOLE MECHANICAL INSTALLATION SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED PROFESSIONAL MECHANICAL ENGINEER.
3. THE TOTAL SCOPE OF WORK SHALL INCLUDE ALL WORKS.
4. THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL TRADES.
5. ALL FLOOR SLAB MOUNTED VIBRATING EQUIPMENT SHALL BE PROVIDED WITH ISOLATION VIBRATORS TO PREVENT VIBRATIONS AND NOISE TRANSMISSION.
6. ALL POWER WIRING UP TO SPLICE BOX SHALL BE ELECTRICAL CONTRACTOR AND FROM SPLICE BOX TO EQUIPMENT BE MECHANICAL CONTRACTOR.
7. VERIFY LOCATION OF CONTROLLERS AND SWITCHES IN THE ELECTRICAL PLAN.
8. PROVIDE PIPE SLEEVES FOR ALL PIPING PASSING THROUGH BUILDING STRUCTURE.
9. PIPE INSULATION SHALL BE 15mm ($\frac{3}{4}$ ") THK. ELASTOMETRIC RUBBER FOR DRAIN LINES.
10. ALL PIPE EQUIPMENT CONDENSATE DRAIN LINE TO THE NEAREST FLOOR DRAIN, DOWN SPOUT OR DRAIN STUB-OUT PROVIDED BY THE PLUMBING CONTRACTOR.
11. PROVIDE GUIDE, HANGERS AND SUPPLEMENTAL SUPPORT STEEL FOR ALL PIPING.
12. ALL STEEL PIPE SUPPORT SHALL BE PHOSPHATED PRIOR TO APPLICATIONS OF TWO COATS OF EPOXY GRAY AND A COAT OF ENAMEL PAINT FOR FINISHING.

HVAC SYMBOLS

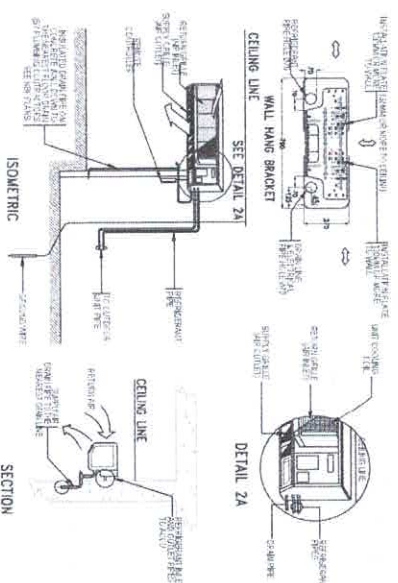


ABBREVIATION

- ACCU - AIR CONDITIONER CONDENSING UNIT
FCU - FAN COIL UNIT (INDOOR UNIT)
HP - HORSEPOWER (COOLING CAPACITY)
TR - TON OF REFRIGERATION



ACCU MOUNTING DETAIL



FCU WALL MOUNTED INST. DETAIL

REPUBLIC OF THE PHILIPPINES
Office of the Building Official
LANAO DEL NORTE

RECOMMENDING ISSUANCE

MECHANICAL SECTION DATE

ISSUED BY: DATE

BUILDING OFFICIAL DATE

FROM THE OFFICE OF:



OPR. **ELJ BUILDERS, Incorporated**
CONTRACTORS - ENGINEERS - ARCHITECTS
PROFESSIONAL MECHANICAL ENGINEER
PRC : 0005164
PTR : 9614581
REG. DATE: 02-23-2017
DATE: 01-16-2019
PLACE ISSUED: CEBU CITY

SEAL

PROJECT TITLE:

A PROPOSED 3-STOREY SCIENCE
RESEARCH FACILITY

OWNER:

PHILIPPINE SCIENCE HIGH SCHOOL
CENTRAL MINDANAO CAMPUS

SHEET CONTENTS:

NO.	DESCRIPTION	DATE

SHEET NO.



FOR BUILDING

AC DISTANCE OF HANGER SUPPORT

TUBE SIZE (O.D.) INCH - (mm)	DISTANCE BETWEEN SUPPORTS ft. - (mm)
3/8"Ø - 5/8"Ø (9mm-15mm)	6 ft. - (180mm)
7/8"Ø - 1-1/8"Ø (22mm-28mm)	6 ft. - (180mm)
1-3/8"Ø - 2-1/8"Ø (74mm-53mm)	10 ft. - (300mm)

Note: Wrap the pipes with insulation to prevent metal to metal contact and avoid the consequent noise and/or leak of refrigerant pipe before placing the hangers or vertical supports.

AC DRAIN PIPE SIZE

CAPACITY	DRAIN PIPE SIZE in - mm
3 TR & 5.0 TR	3/4"Ø - 19mmØ
2 HP	1/2"Ø

Notes:
a. Condensate "p" traps of min. 3" water height and plug tees are necessary to prevent stale air from entering the fan coil unit from unsanitary disposable site
b. A slope of 1 ft. 100 ft. is recommended for lateral piping.

INDOOR TEMPERATURE °C DBWB	OUTDOOR TEMPERATURE °C DB
27° / 19.5°	35° / 24°

Q; ANALYSIS	Q; HEAT GAIN	OTHERS
LATENT	LATENT and SENSIBLE	Infiltration

GROUND FLOOR INDOOR UNITS									GROUND FLOOR OUTDOOR UNITS					
DESIGNATION	TYPE	COOL. CAP.	QTY.	DIMENSION HxWxD (mm)	WT. (KG.)	REF. PIPE (mm) GAS LIQ.	DRAIN PIPE (mm)	POWER SUPPLY (V/ph/Hz)	DESIGNATION	DIMENSION HxWxD (mm)	WT. (KG.)	POWER In (W)	POWER SUPPLY (V/ph/Hz)	REMARKS
FCU1	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-2	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU2	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-2	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU3	SINGLE-SPLIT, FLOOR MOUNT	2 HP	1	230 x 840x 200	5.5	12.7 6.35	VP-16	220-240/1/60	ACCU-3	245 x 803 x 230	25	1492	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU4	SINGLE-SPLIT, FLOOR MOUNT	5 TR	1	286 x 906 x 235	15.5	12.7 6.35	VP-16	220-240/1/60	ACCU-5	286 x 906 x 235	55	17580	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU5	SINGLE-SPLIT, FLOOR MOUNT	5 TR	1	286 x 906 x 235	15.5	12.7 6.35	VP-16	220-240/1/60	ACCU-5	286 x 906 x 235	55	17580	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU6	SINGLE-SPLIT, FLOOR MOUNT	5 TR	1	286 x 906 x 235	15.5	12.7 6.35	VP-16	220-240/1/60	ACCU-5	286 x 906 x 235	55	17580	220-240/1/60	COMPLETE WITH ACCESSORIES

SECOND FLOOR INDOOR UNITS										SECOND FLOOR OUTDOOR UNITS				
DESIGNATION	TYPE	COOL. CAP.	QTY.	DIMENSION HxWxD (mm)	WT. (KG.)	REF. PIPE (mm) GAS LIQ.	DRAIN PIPE (mm)	POWER SUPPLY (V/Ph/Hz)	DESIGNATION	DIMENSION HxWxD (mm)	WT. (KG.)	POWER In (W)	POWER SUPPLY (V/Ph/Hz)	REMARKS
FCU1	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-1	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU2	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-2	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU3	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-3	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU4	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-4	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU5	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-5	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU6	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-6	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU7	SINGLE-SPLIT, FLOOR MOUNT	3.0 TR	1	286 x 906 x 235	13.5	12.7 6.35	VP-16	220-240/1/60	ACCU-7	286 x 906 x 235	51	10548	220-240/1/60	COMPLETE WITH ACCESSORIES

THIRD FLOOR INDOOR UNITS										THIRD FLOOR OUTDOOR UNITS					
DESIGNATION	TYPE	COOL. CAP.	QTY.	DIMENSION HxWxD (mm)	WT. (KG.)	REF. PIPE (mm)		DRAIN PIPE (mm)	POWER SUPPLY (V/ph/Hz)	DESIGNATION	DIMENSION HxWxD (mm)	WT. (KG.)	POWER In (W)	POWER SUPPLY (V/ph/Hz)	REMARKS
						GAS	LIQ.								
FCU1	SINGLE-SPLIT, FLOOR MOUNT	5.0 TR	1	286 x 906 x 235	13.5	12.7	6.35	VP-16	220-240/1/60	ACCU-1	286 x 906 x 235	51	2000	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU2	SINGLE-SPLIT, FLOOR MOUNT	5.0 TR	1	286 x 906 x 235	13.5	12.7	6.35	VP-16	220-240/1/60	ACCU-2	286 x 906 x 235	51	2000	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU3	SINGLE-SPLIT, FLOOR MOUNT	5.0 TR	1	286 x 906 x 235	13.5	12.7	6.35	VP-16	220-240/1/60	ACCU-3	286 x 906 x 235	51	2000	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU4	SINGLE-SPLIT, FLOOR MOUNT	5.0 TR	1	286 x 906 x 235	13.5	12.7	6.35	VP-16	220-240/1/60	ACCU-4	286 x 906 x 235	51	2000	220-240/1/60	COMPLETE WITH ACCESSORIES
FCU5	SINGLE-SPLIT, FLOOR MOUNT	5.0 TR	1	286 x 906 x 235	13.5	12.7	6.35	VP-16	220-240/1/60	ACCU-5	286 x 906 x 235	51	2000	220-240/1/60	COMPLETE WITH ACCESSORIES

FROM THE OFFICE OF		ORLANDO MONTANOZA PROFESSIONAL MECHANICAL ENGINEER		DRAWINGS AS INSTRUMENTS OF SERVICE ARE PROPERTY OF THE ARCHITECT AND SHALL NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT PERMISSION		SEAL		PROJECT TITLE: A PROPOSED 3-STOREY SCIENCE RESEARCH FACILITY		OWNER: PHILIPPINE SCIENCE HIGH SCHOOL- CENTRAL MINDANAO CAMPUS		SHEET CONTENTS: MECHANICAL PLAN		REVISIONS		NO. DESCRIPTION DATE		M-2 1 5 MECHANICAL	
ELU BUILDERS, Incorporated CONTRACTORS • ENGINEERS • ARCHITECTS		PRC : 0065164 PTR : 9614581		REG. DATE: 02-23-2017 DATE: 01-16-2019		PLACE ISSUED: CEBU CITY		LOCATION: NANKA BALOH LAMAO DEL NORTE		ADDRESS: NANKA BALOH LAMAO DEL NORTE									
TIN : 220-492-187																			

REPUBLIC OF THE PHILIPPINES
Office of the Building Official
LANAO DEL NORTE

RECOMMENDING ISSUANCE

MECHANICAL SECTION DATE

ISSUED BY: DATE

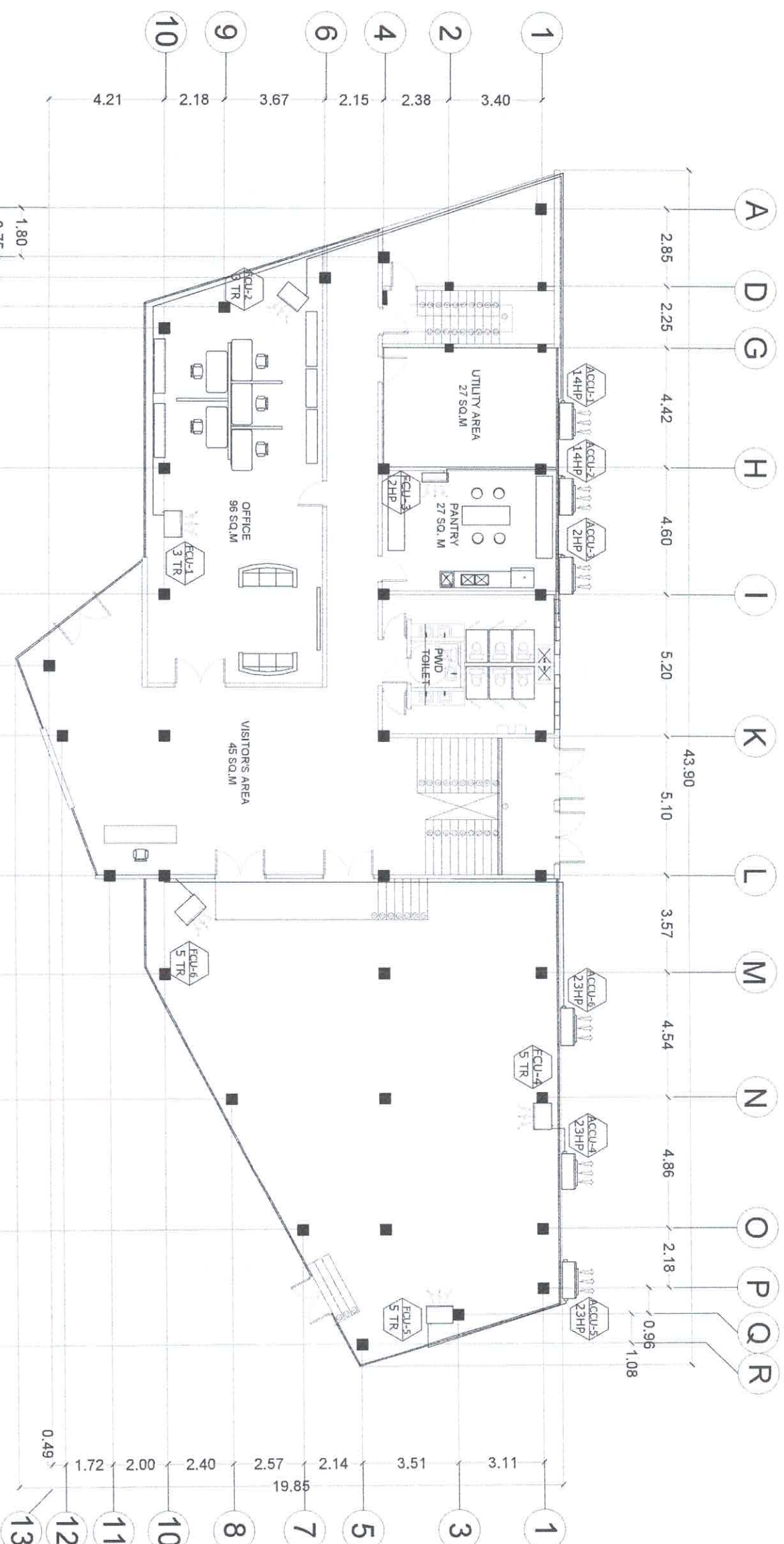
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RECOMMENDING ISSUANCE

MECHANICAL SECTION DATE

ISSUED BY: DATE

BUILDING OFFICIAL DATE



1 GROUND FLOOR AIRCON LAYOUT

SCALE 1:100 MTS

FROM THE OFFICE OF



ORLANDO V. MONTANOZA

PROFESSIONAL MECHANICAL ENGINEER

PRC: 0001764
PTR: 9814581
REG. DATE: 02-23-2017
DATE: 01-16-2019
PLACE ISSUED: CEBU CITY

OF THE ENGINEER'S SIGNATURE

THE ARCHITECT AND/OR ENGINEER
MUST SIGN AND BE RESPONSIBLE FOR
ANY CHANGES MADE TO THE ORIGINAL
DESIGN WITHOUT PERMISSION
FROM THE ARCHITECT AND/OR ENGINEER

SEAL

PROJECT TITLE:

A PROPOSED 3-STOREY SCIENCE
RESEARCH FACILITY

OWNER:

PHILIPPINE SCIENCE HIGH SCHOOL-
CENTRAL MINDANAO CAMPUS

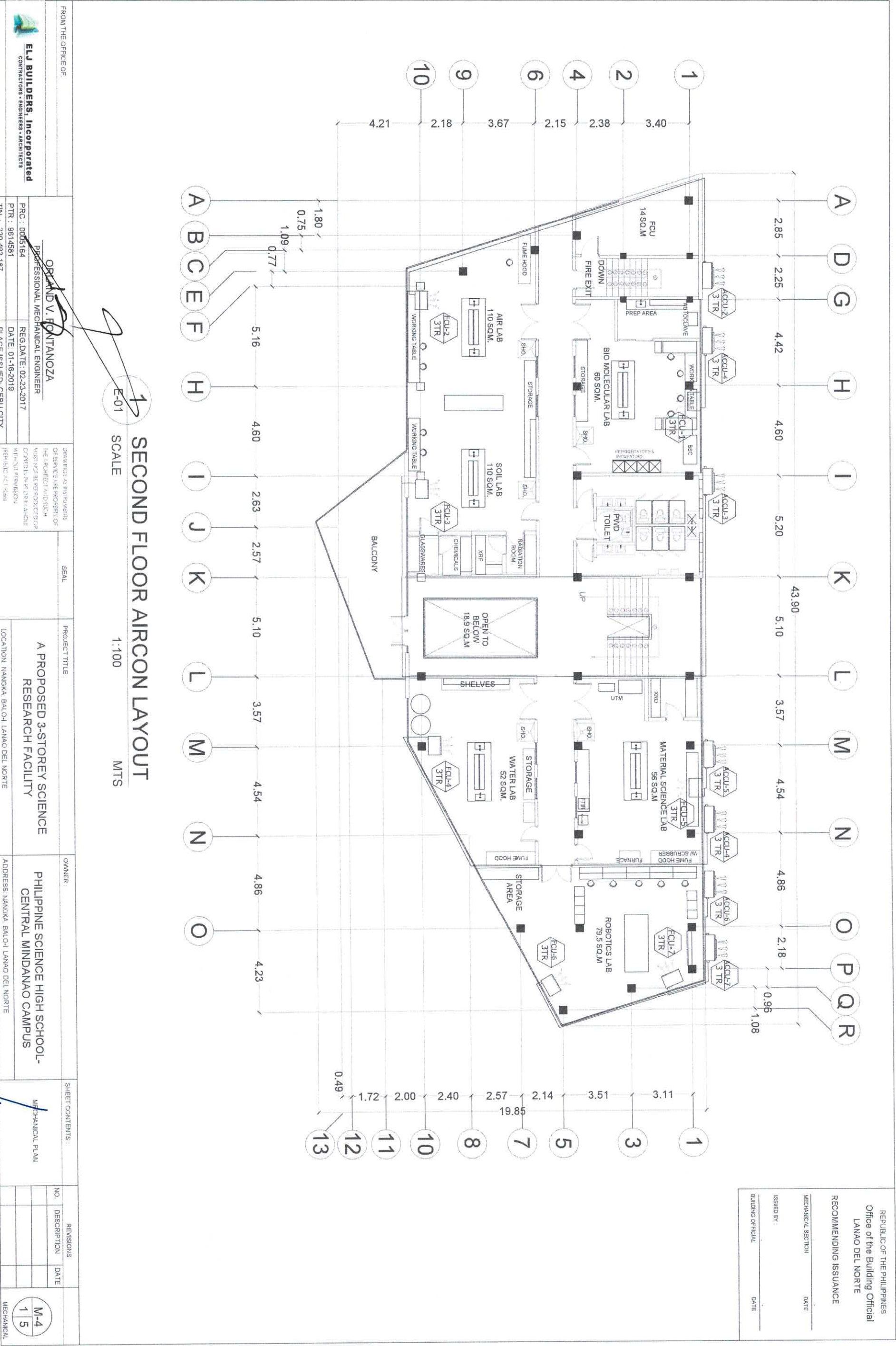
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MECHANICAL PLAN

REVISIONS
NO. DESCRIPTION DATE

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MECHANICAL

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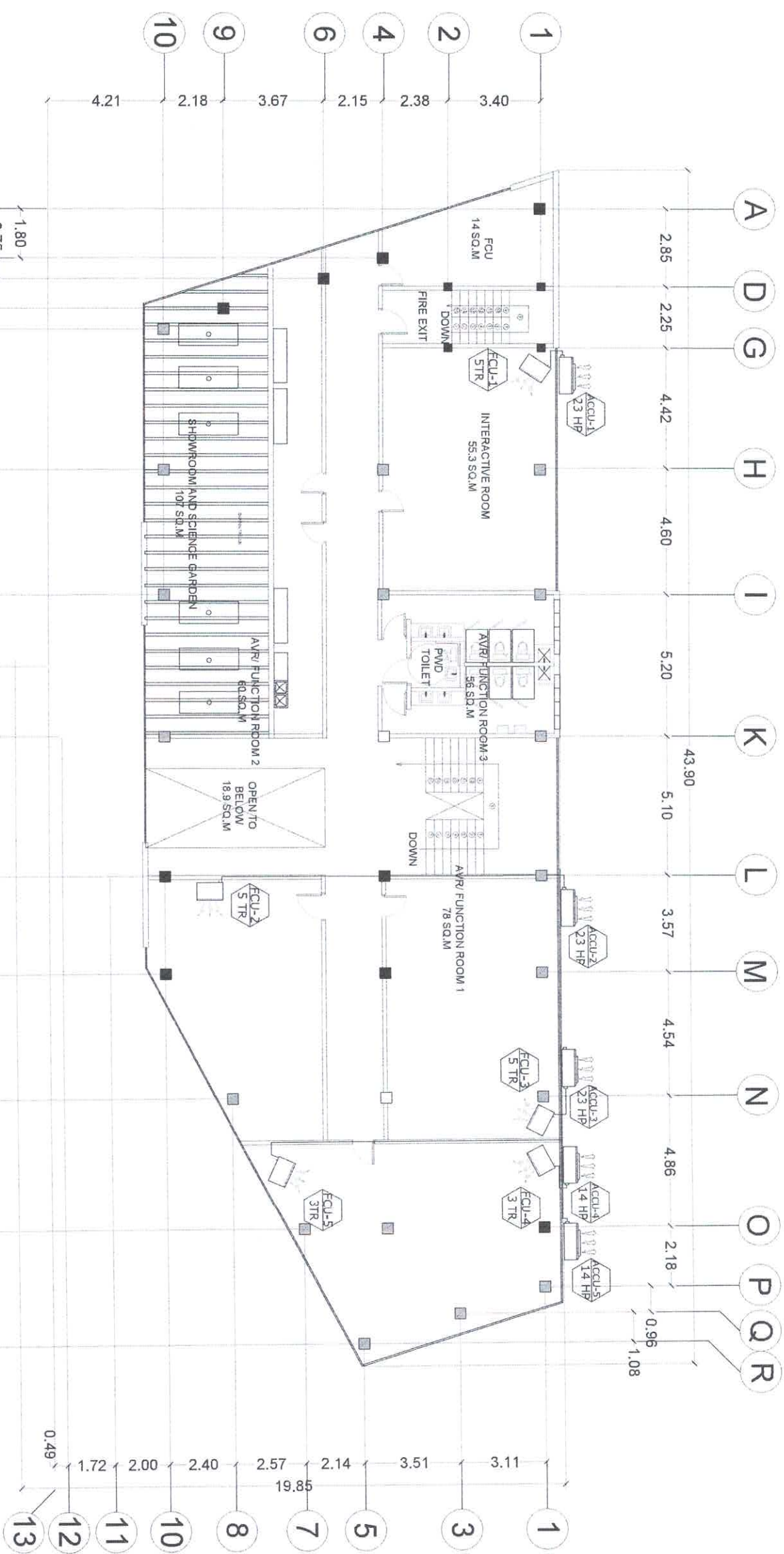


RECOMMENDING ISSUANCE

MECHANICAL SECTION DATE

ISSUED BY DATE

BUILDING OFFICIAL DATE



THIRD FLOOR AIRCON LAYOUT

E-01

SCALE

1:100

MTS

FROM THE OFFICE OF:



ELU BUILDERS, Incorporated
CONTRACTORS • ENGINEERS • ARCHITECTS

ORLANDO PANTANOZA

PROFESSIONAL MECHANICAL ENGINEER

PRC : 0005-864

PTR : 9614581

TIN : 220-492-187

DATE: 01-18-2019
PLACE ISSUED: CEBU CITY

DRAMA'S ARTS INSTITUTE

OF SERVICE ARE PROPERLY OF

THE ARCHITECT AND SUCH

WARRANT BE REPRODUCED OR

CONTROL IN ANY MANNER

WITHOUT PERMISSION

(REPUBLIC ACT 9594)

SEAL

PROJECT TITLE:

A PROPOSED 3-STOREY SCIENCE
RESEARCH FACILITY

OWNER:

PHILIPPINE SCIENCE HIGH SCHOOL-
CENTRAL MINDANAO CAMPUS

SHEET CONTENTS:

MECHANICAL PLAN

REVISIONS	
NO.	DESCRIPTION DATE
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MECHANICAL