



**DEPARTMENT OF AGRICULTURE  
AGRICULTURAL TRAINING INSTITUTE  
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY**


**PROPOSED IMPROVEMENT OF MAIN ELECTRICAL  
FEEDER LINE, FDAS AND CCTV SYSTEM  
OF ATI - MAIN BUILDING, CENTRAL OFFICE  
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY**

PREPARED BY:

**= INFRASTRUCTURE SUPPORT TEAM =  
ATI-CENTRAL OFFICE**

# (SHOP DRAWING PLAN)

## RE-WIRING OF THE ELECTRICAL FEEDER LINE (PHASE 2) AT ATI-MAIN BUILDING

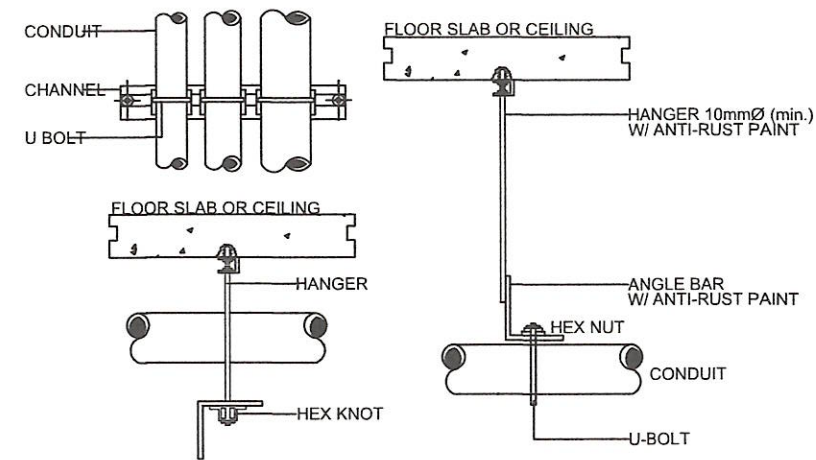
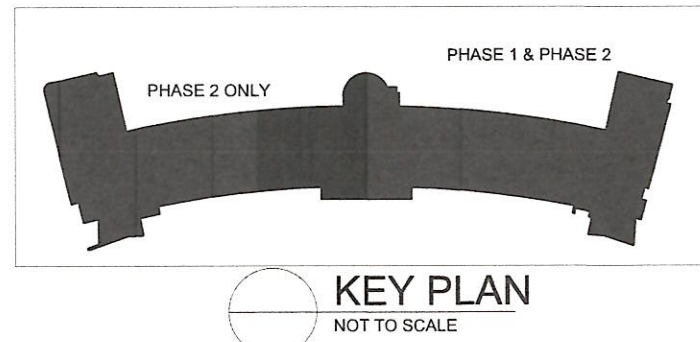
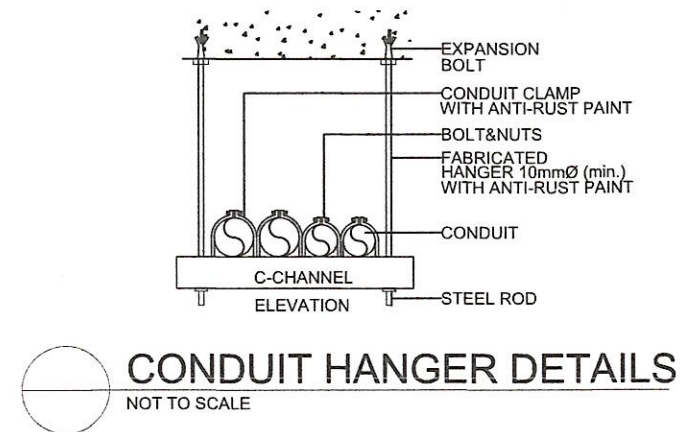
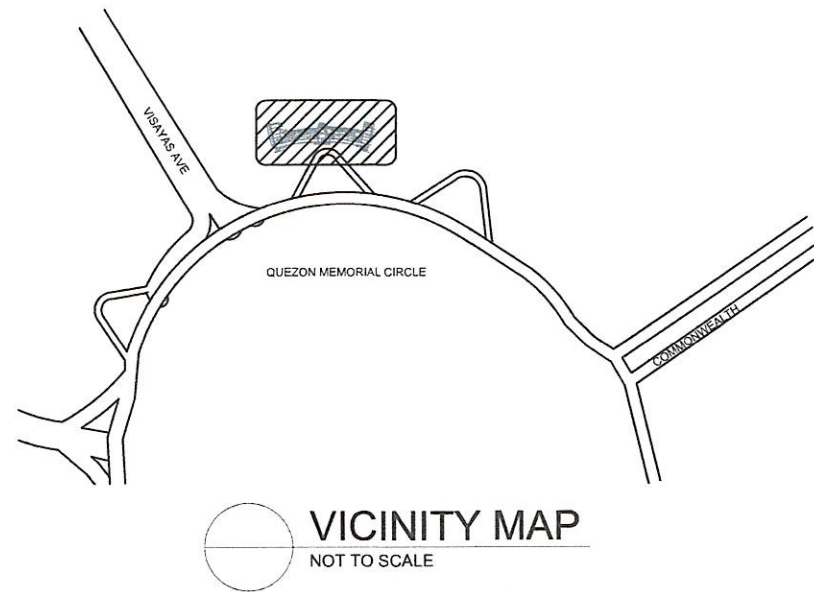
	<b>DEPARTMENT OF AGRICULTURE AGRICULTURAL TRAINING INSTITUTE</b> ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	PROJECT TITLE:	PRODUCE BY:	DESIGN:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGN BY:	SHEET NO.:
		PROPOSED IMPROVEMENT OF MAIN FEEDER LINE, FDAS AND CCTV SYSTEM OF ATI - MAIN BUILDING, CENTRAL OFFICE ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	<b>INFRASTRUCTURE SUPPORT TEAM</b> ATI-CENTRAL OFFICE ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	JOSELYN A. REYES JR PROFESSIONAL ELECTRICAL ENGINEER <small>PRC NO.: 0004628      DATE ISSUED: 10/02/19</small> <small>PTR NO.: 0124821      CTC NO.: 28103715</small> <small>DATE ISSUED: 01/05/22      DATE ISSUED: 05/03/22</small> <small>PLACED ISSUED: MANILA      PLACED ISSUED: MANILA</small>	ANTONETA J. ARCEO OIC - ASSISTANT DIRECTOR	ROSANA P. MULA, Ph.D. DIRECTOR IV	JP DATE: JUNE 2022 CAD BY: JP DATE: JUNE 2022 CHECKED BY:	

# GENERAL NOTES :

ALL ELECTRICAL WORKS HEREIN SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE, PROVISION OF THE LATEST APPROVED EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND REQUIREMENTS OF THE LOCAL POWER, TELEPHONE COMPANY AND BUILDING ADMINISTRATION REQUIREMENTS.

- CONTRACTOR SHALL SECURE ALL WIRING PERMIT AND ALL FEES REQUIRED FOR THE WORKS AND FURNISH THE OWNER THE FINAL CERTIFICATE OF ELECTRICAL INSPECTION.
- IN CASE OF ANY DISCREPANCY BETWEEN PLANS AND SITE CONDITION, SPECIFICATION AND REVISIONS/ CHANGES, THE CONTRACTOR SHALL IMMEDIATELY VERIFY AND CONSULT TO/ WITH ELECTRICAL ENGINEER.
- CONTRACTORS/ SUPPLIERS SHALL BE RESPONSIBLE FOR PREPARATION OF SHOP OR CONSTRUCTION DRAWING, SELECTION OF MODELS AND MATERIALS, AND METHODOLOGY DULY SIGNED AND SEALED OF THE CONTRACTORS/ SUPPLIERS PROFESSIONAL ENGINEER (PEE, PME, SANITARY AND CIVIL ENGINEER).
- ALL LOCATION AND MOUNTING HEIGHT ARE SUBJECT TO APPROVAL OF ELECTRICAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE IN THE PREPARATION OF ELECTRICAL AS-BUILT PLANS DULY SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER. AND ELECTRONIC AUTOCAD FILES.
- FINAL LIGHTING FIXTURES FINISHES AND WIRING DEVICES SHALL BE APPROVED BY OWNER REPRESENTATIVE/ENGINEER.
- CONTRACTOR'S TO VISIT SITE CONDITION AND INCLUDE ALL COST NECESSARY TO COMPLETE THE SYSTEM AT NO COST TO OWNER. INCLUDING COST OF CORING SERVICE AND EXPENSES FOR THE RESTORATION ANY DAMAGE/ AFFECTED CIVIL /ARCH'L FINISHES OR RELOCATION OF EXISTING FACILITIES ON BUILDING.
- CONTRACTOR'S TO LOCATE ALL SPLICING BOXES TO ACCESSIBLE PLACE OR WITH ACCESS PANELS.
- NOMINATED CONTRACTOR TO VERIFY ALL EQUIPMENTS TO BE INSTALLED OR PLACE WITHIN THE STORE, AND MAKE A ADJUSTMENT WITH OWNER'S/ ARCHITECT CONSENT.
- THIS DRAWING ARE DIAGRAMMATIC LAYOUT ONLY. ANY MATERIALS AND FITTING NOT SHOWN ON THIS PLANS BUT NEEDED TO COMPLETE THE SYSTEM AND OPERATION SHALL BE INCLUDED WITH THE CONTRACTOR SCOPE OF WORKS.
- ALL POWER OUTLET (C.O) SHALL BE 700 MM FAR FROM EDGE OF SINK, OTHERWISE PROVIDE GFCI.
- IN KITCHEN AREA/ ROOM ALL METAL OF CHILLERS, CABINETS, TABLES, AIRCON FRAMES, BLOWER FRAMES SHALL BE PROPERLY GROUNDED WITH MINIMUM GROUND BONDING JUMPER OF # 3.5mm<sup>2</sup> STRANDED AND TAP TO PANEL BOARD GROUND TERMINAL LUGS.
- ELECTRICAL CONTRACTOR TO CONDUCT TEST WITH REPRESENTATIVE OF OWNER OR CONSULTANTS, THE FOLLOWING TEST TO BE DONE BEFORE OR AFTER ENERGIZATION.
  - WIRING INSULATION TEST
  - WIRING CONTINUITY TEST, INCLUDING GROUND WIRES
  - VOLTAGE/ POWER SUPPLY TEST AT PANELBOARD AND EVERY CONVENIENCE OUTLET
  - LOAD BALANCING
  - AMPERE LOAD TEST OF EACH CIRCUIT AND MAIN WIRE.
  - PHASE SEQUENCE OR ROTATIONAL TEST REPORT
  - TEST OF GROUND FAULT CURRENT INTERRUPTER (GFCI), EARTH LEAKAGE CIRCUIT BREAKERS (ELCB) AND RESIDUAL CURRENT DEVICE (RCD).
  - THERMAL SCAN REPORT OF PANELBOARDS, BUSBARS AND CIRCUIT BREAKERS TERMINALS.
- CONTRACTOR TO SUBMIT SHOP DRAWING OF PANEL BOARD AND AIR CIRCUIT BREAKERS PRIOR TO ORDERING OR FABRICATION. PANELBOARD ENCLOSURE SHALL BE Ga. 16 (MINIMUM) THICKNESS AND COPPER BUSBAR SHALL BE USED.
- ALL WORKS SHALL BE DONE UNDER DIRECT SUPERVISION OF LICENSE REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN
- POWER SERVICE TO THE BUILDING SHALL BE 400V (L-L) 3Ø, 230V 1Ø (L-N), 4-WIRE + GRD.60 HERTZ.
- ALL MATERIALS TO BE USE SHALL BE NEW AND APPROVED TYPE FOR LOCATION.
- ALL WIRES SHALL HAVE A MAXIMUM LOAD OF 80% OF WIRE CAPACITY
- RECEPTACLES FOR GENERAL USE SHALL BE DUPLEX 20A 250VAC GRND TYPE (3-PRONG).
- LIGHT SWITCHES MINIMUM RATING SHALL BE 20A 250VAC
- ALL MATERIALS TO BE USE SHALL BE BRAND NEW AND HAVE A "P.S." MARKS
  - LIGHT SWITCHES - 1.37 M ABOVE FLOOR FINISH
  - CONVENIENCE OUTLETS - 0.30 M ABOVE FLOOR FINISH
  - TELEPHONE OUTLETS - 0.30 M ABOVE FLOOR FINISH
  - PANELBOARD - 1.80 M ABOVE FLOOR FINISH
- CONDUIT/PIPE EMBEDDED WITHIN CONCRETE WALL SHALL HAVE A MINIMUM CEMENT PLASTERED OF 20MM THICK.
- ALL LIGHTING FIXTURES SHALL HAVE INDEPENDENT HANGER / SUPPORTS.
- ALL CONDUIT/PIPE ABOVE CEILING SHALL HAVE INDEPENDENT HANGER/SUPPORTS.
- ALL BOXES SHALL BE OCCUPIED ONLY OF 50% OF WIRES VOLUME.
- WIRE VOLTAGE DROP SHALL BE LIMITED TO 3% FROM SOURCE TO PANELBOARD OR ACCEPTABLE TO OWNER'S EQUIPMENT.
- CIRCUIT BREAKER SERVING MOTORS AND LIGHTING LOAD SHALL BE INDUSTRIAL BOLT-ON TYPE RESPECTIVELY, WITH MINIMUM OF 14KAIC.
- ALL WIRES AND CABLES SHALL BE P.DODGE/ PHILFLEX OR DURAFLEX BRAND.
- ALL CONDUIT AND FITTINGS SHALL BE IMC FOR LIGHT AND POWER TELEPHONE AND DATA SYSTEM, OR EQUIVALENT CONDUIT APPROVED BY BUILDING CONSTRUCTION GUIDELINES.
- USE OF MICA TUBING SHALL BE LIMITED TO SIX INCHES (6") MAXIMUM.
- USE OF FLEXIBLE METALLIC CONDUIT (FMC) SHALL BE LIMITED TO TWELVE INCHES (12") MAX.
- PROVIDE PROPER CONDUIT SUPPORT. GI. WIRES AS SUPPORT IS NOT ALLOWED.
- PROVIDE DOUBLE-COAT OF RUST-PROTECTIVE PAINT (RED-OXIDE PRIMER) ON HANGERS AND SUPPORTS.
- WIRE COLOR CODING IS STRICTLY ENFORCE:
 

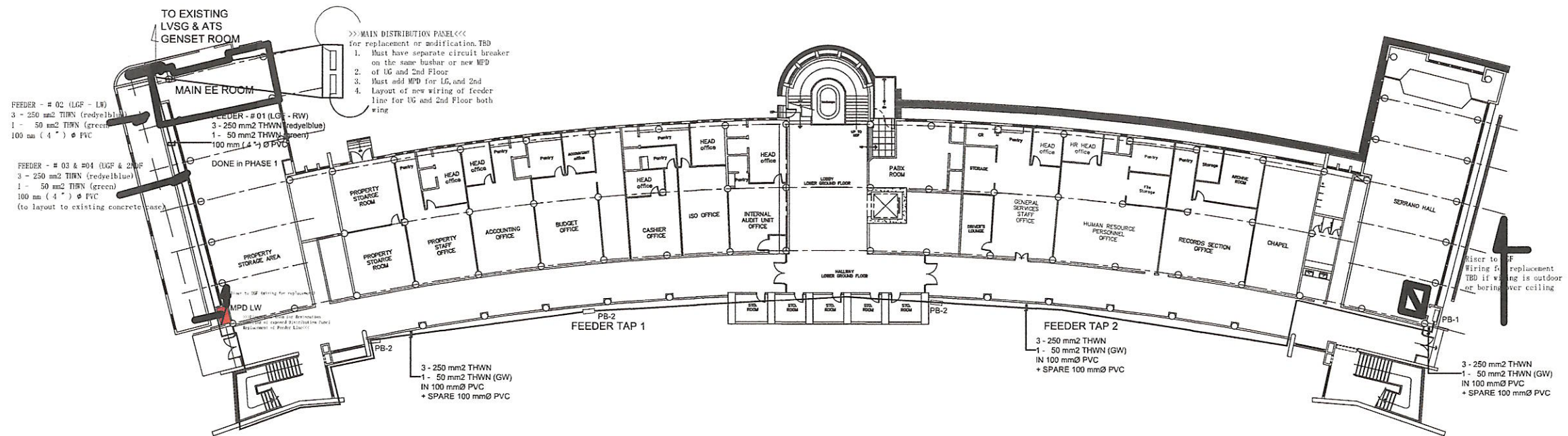
L1	- RED
L2	- YELLOW
L3	- BLUE
GROUND	- GREEN
NEUTRAL	- WHITE
- PREFERRED BRAND OF CIRCUIT BREAKER IS SCHNEIDER ELECTRIC.



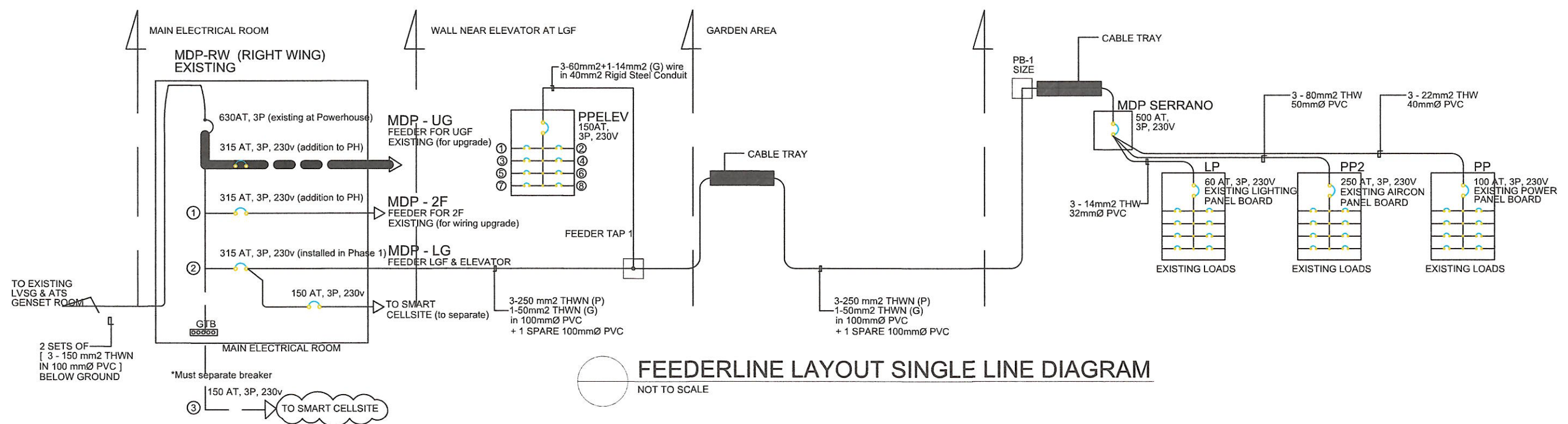
ADDENDUM NOTES:

- PHASE 1 WORKS CONSIST ELECTRICAL FEEDER LINE LAYOUT AT LOWER GROUND FLOOR RIGHT WING ONLY.
- PHASE 2 WORKS WILL CONTINUE AND UTILIZE THE PREPARED RACEWAYS FOR ELECTRICAL FEEDER LINE FOR THE LOWER GROUND FLOOR LEFT WING, UPPER GROUND FLOOR LEFT AND RIGHT WING, AND SECOND FLOOR LEFT AND RIGHT WING. ALL WORKS WILL CONSIST OF REMOVAL OF OLD FEEDER LINE AND LAYOUT OF BRAND NEW ELECTRICAL FEEDER LINES.
- THIS PLAN DOES NOT REFLECT THE FIRE DETECTION ALARM SYSTEM AND CCTV LAYOUT INCLUSIVEIN THE BID THIS PLAN ONLY EXCLUSIVELY REFLECTS ALL ELECTRICAL FEEDER LINE WORKS TO BE DONE.

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**PROPOSED FEEDER LINE LAYOUT**  
NOT TO SCALE



**FEEDERLINE LAYOUT SINGLE LINE DIAGRAM**  
NOT TO SCALE

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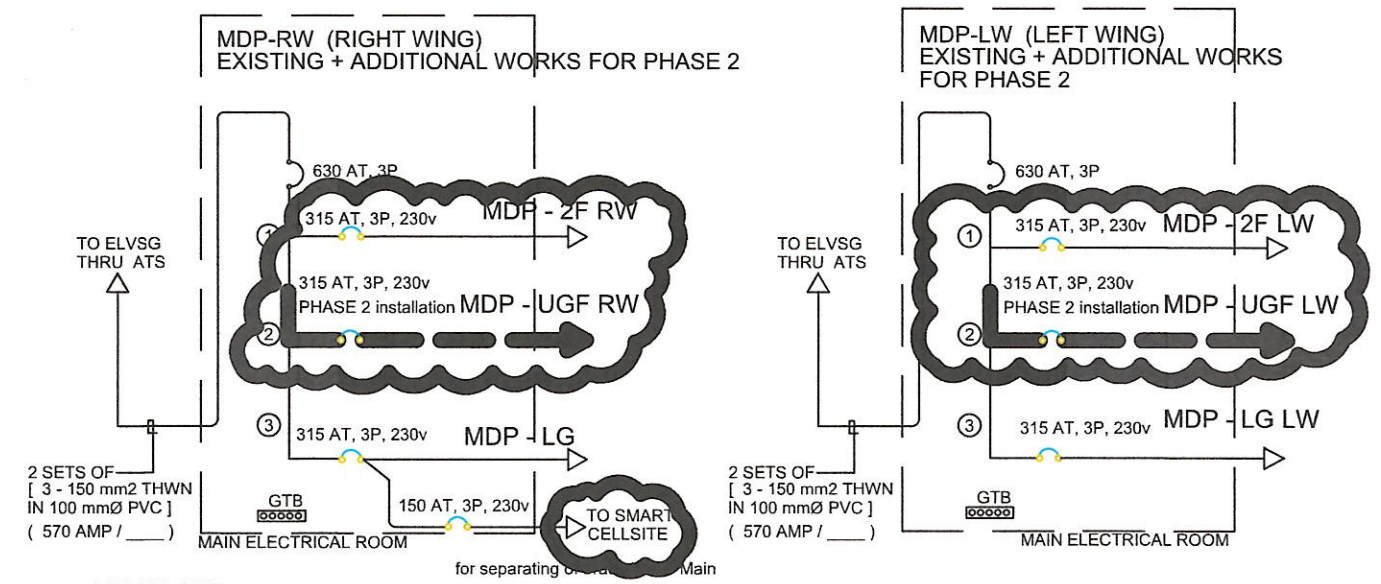
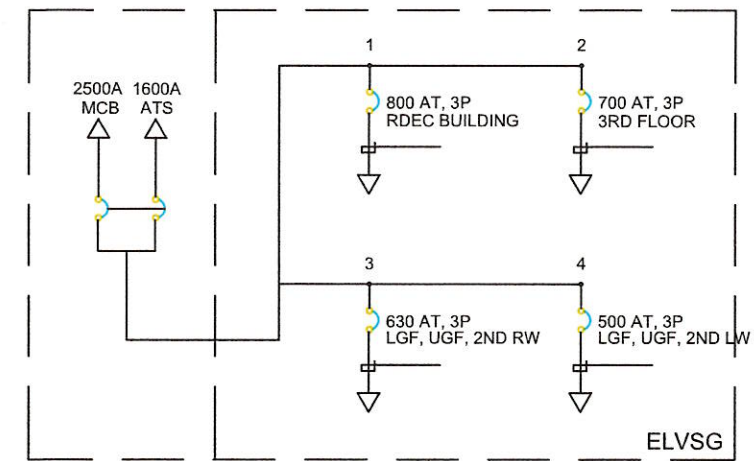
**LOAD SCHEDULE AND COMPUTATIONS**

PANEL : MDP - RW (RIGHT WING) -EXISTING				LOCATION : EE ROOM , SERRANO , UPPER GROUND FLOOR , RIGHT WING										
CKT. NO.	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE mm 2 THHN	GROUND WIRE mm 2 THHN	SIZE OF CONDUIT mmØ
				AB	CA	BC	3Ø	POLE	AT	AF	KAIC			
1	PANEL " MDP - UG & 2F "		215,792	259.96	244.60	224.73	252.00	3	315	400	18			
2	PANEL " MDP - LG "		81,976	93.93	95.05	87.80	52.00	3	315	400	18			
	SMART CELL SITE		25,530	37.00	37.00	37.00		3	150	150	18			
TOTAL CONNECTED LOAD			323,298	390.83	436.65	349.53	304.00							
COMPUTATION: DEMAND FACTOR = 100 %				NOTE : DATA FROM AS-BUILT PLANS DATED APRIL 2021										
I3Ø = D.F. x 304.00 + 1.732 x 436.65 + 25% x 42 = 1070 A				MAIN : 630 AT / 630 AF, 3P, 220V, 42 KAIC										
ICB = 125% x 1070 A = 1337 A				2 SETS OF [ 3 - 150 mm2 THWN (P) , IN 100 mmØ PVC ]										

PANEL : MDP - UG & 2F - (EXISTING) PHASE 2 WORKS				LOCATION : EE ROOM , SERRANO , UPPER GROUND FLOOR , RIGHT WING										
CKT. NO.	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE mm 2 THHN	GROUND WIRE mm 2 THHN	SIZE OF CONDUIT mmØ
				AB	CA	BC	3Ø	POLE	AT	AF	KAIC			
1	PANEL " MDP - UG "		100,042	98.13	87.73	97.90	210.00							
2	PANEL " MDP - 2F "		115,750	161.83	156.87	126.83	42.00							
TOTAL CONNECTED LOAD			215,792	259.96	244.60	224.73	252.00							
COMPUTATION: DEMAND FACTOR = 100 %				NOTE : DATA FROM AS-BUILT PLANS DATED APRIL 2021										
I3Ø = D.F. x 252.00 + 1.732 x 259.96 + 25% x 42 = 524 A				MAIN : 315 AT / 400AF, 3P, 220V, 25 KAIC										
ICB = 125% x 524 A = 655 A				2 SETS OF [ 3 - ___ mm2 THWN (P) , IN ___ mmØ PVC ]										

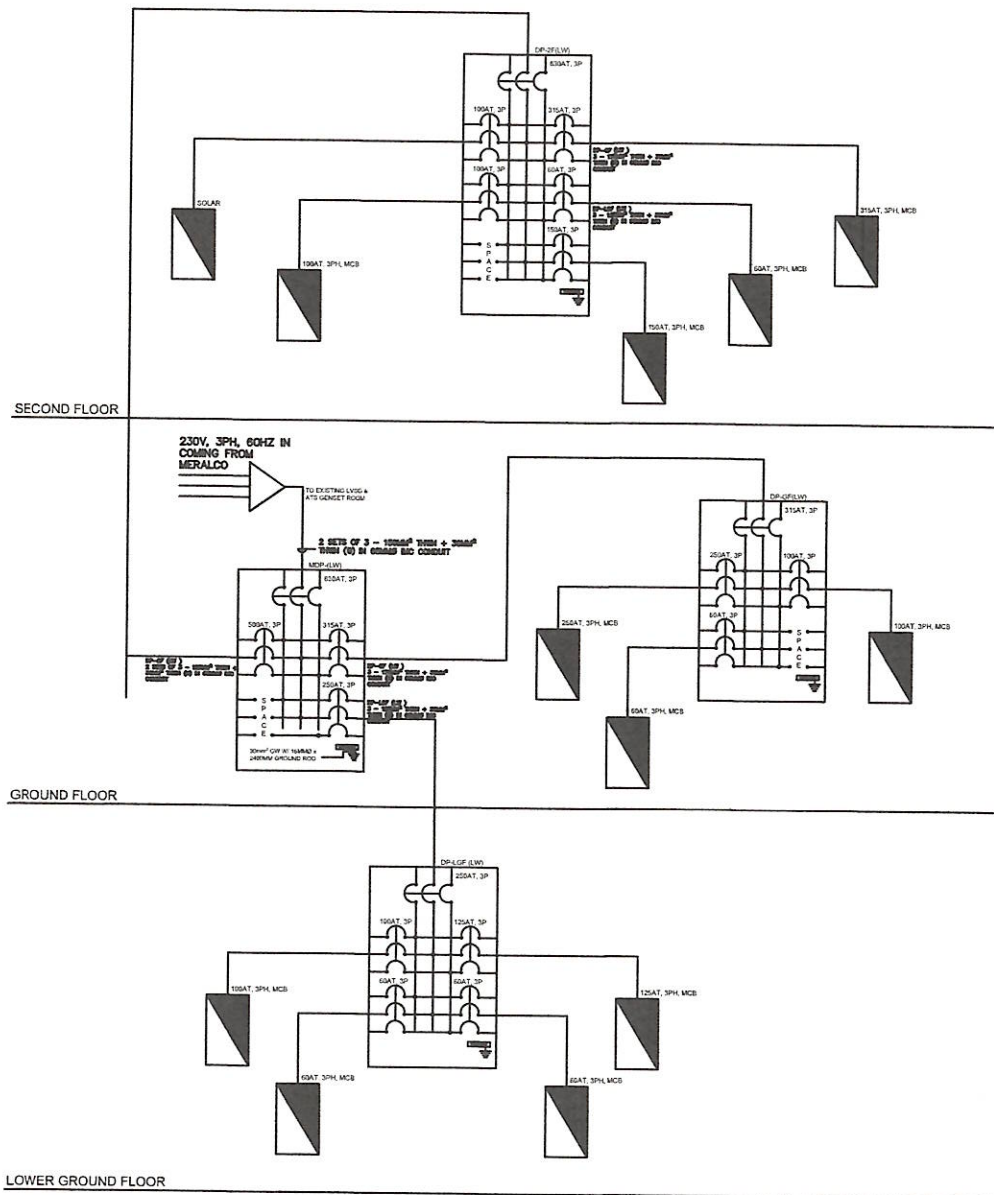
PANEL : MDP - UG (EXISTING)				LOCATION : EE ROOM , SERRANO , UPPER GROUND FLOOR , RIGHT WING										
CKT. NO.	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE mm 2 THHN	GROUND WIRE mm 2 THHN	SIZE OF CONDUIT mmØ
				AB	CA	BC	3Ø	POLE	AT	AF	KAIC			
1	PANEL "PB-AC" (ACU)		59,662	30.00	30.00	30.00	210.00	3	315	400	18	3 - 150	1 - 22	65
2	PANEL "PP" (C.O.)		15,480	28.17	24.25	30.07		3	100	100	18	3 - 30	1 - 8	40
3	PANEL "LP" (LIGHT & CO)		24,900	36.96	33.48	37.83		3	100	100	18	3 - 22	1 - 8	32
TOTAL CONNECTED LOAD			100,042	98.13	87.73	97.90	210.00							
COMPUTATION: DEMAND FACTOR = 100 %				NOTE : DATA FROM AS-BUILT PLANS DATED APRIL 2021										
I3Ø = D.F. x 210.00 + 1.732 x 98.13 + 25% x 22 = 385 A				MAIN : 400 AT / 400AF, 3P, 220V, 25 KAIC										
ICB = 125% x 385 A = 481 A				2 SETS OF [ 3 - 80 mm2 THWN (P) , IN 65 mmØ PVC ]										

PANEL : MDP - 2F (EXISTING)				LOCATION : EE ROOM , SERRANO , SECOND FLOOR , RIGHT WING										
CKT. NO.	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE mm 2 THHN	GROUND WIRE mm 2 THHN	SIZE OF CONDUIT mmØ
				AB	CA	BC	3Ø	POLE	AT	AF	KAIC			
1	PANEL "PB-AC" (ACU)		89,170	101.39	108.00	105.70	42.00	3	315	400	18	3 - 150	1 - 22	65
2	PANEL "PP" (C.O.)		13,720	35.22	22.87	16.43		3	100	100	18	3 - 30	1 - 8	40
3	PANEL "LP" (LIGHT & CO)		12,860	25.22	26.00	4.70		3	60	100	18	3 - 14	1 - 5.5	32
TOTAL CONNECTED LOAD			115,750	161.83	156.87	126.83	42.00							
COMPUTATION: DEMAND FACTOR = 100 %				NOTE : DATA FROM AS-BUILT PLANS DATED APRIL 2021										
I3Ø = D.F. x 42.00 + 1.732x 161.83 + 25% x 42 = 332 A				MAIN : 500 AT / 500AF, 3P, 220V, 25 KAIC										
ICB = 125% x 332 A = 415 A				3 - 250 mm2 THWN (P) , 1- 50 mm2 THWN (G) , IN 100 mmØ PVC										



PANEL : PP-ELEV (150AT) SERRANO				LOCATION : EE ROOM , SERRANO , LOWER GROUND FLOOR , RIGHT WING										
CKT. NO.	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE mm 2 THHN	GROUND WIRE mm 2 THHN	SIZE OF CONDUIT mmØ
				AB	CA	BC	3Ø	POLE	AT	AF	KAIC			
1	ELEVATOR MACHINE	15 HP	16000				42.00	3	100	100	18	3-30		20
2	SPARE	--	--					2	20	50	18			
3	WATER PUMP	2 HP (WT)	746	8.00				2	20	50	18	2 - 3.5		20
4	ACU	1 HP	920	8.00				2	20	50	18	2 - 3.5		20
5	LIGHTINGS		400		1.81			2	20	50	18	2 - 3.5		20
6	SPARE	--	--					2	20	50	18			
7	LIGHTINGS		600		2.72			2	20	50	18	2 - 3.5		20
8	SPARE	--	--					2	20	50	18			
TOTAL CONNECTED LOAD			18,666	16.00	1.81	2.72	42.00							
COMPUTATION: DEMAND FACTOR = 100 %				NOTE : DATA FROM AS-BUILT PLANS DATED APRIL 2021										
I3Ø = DF x 42 + 1.732x 12.18 + 25% x 42 = 73.60 A				MAIN : 150 AT, 3P, 220V, 22 KAIC										
ICB = 125% x 73.60 A = 92 A ( minimum )				FEEDER : 3 - 60mm2 THHN (P) , 1 #14mm2 (GW) IN 50mmØ PVC										

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PROPOSE NEW FEEDERLINE LAYOUT SINGLE LINE DIAGRAM  
NOT TO SCALE

DISTRIBUTION PANEL BOARD 2F (DP-2F LW)				LOAD SCHEDULE				MAIN CB: 500AT, 230V, 3POLE, 60HZ								
CKT NO	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE	GROUND WIRE	CONDUIT		
				AB	CA	BC	3ø	POLE	AF	AT	KAIC			SIZE	TYPE	
1	EXISTING PANEL BOARD #1	FEEDER	50,715				221	3	500	315	35	3-175MM2	1-30MM2	75MM DIA.	IMC	
2	EXISTING PANEL BOARD #2	FEEDER	16,100				70	3	500	100	35	3-30MM2	1-8.0MM2	40MM DIA.	IMC	
3	EXISTING PANEL BOARD #3	FEEDER	9,660				42	3	500	60	35	3-14MM2	1-8.0MM2	25MM DIA.	IMC	
4	EXISTING PANEL BOARD #4	FEEDER	24,150				105	3	500	150	35	3-60MM2	1-14MM2	50MM DIA.	IMC	
5	SOLAR DISCONNECT	FEEDER	16,100				70	3	500	100	35	3-30MM2	1-8.0MM2	40MM DIA.	IMC	
6	SPACE															
TOTAL CONNECTED LOAD			116,725	0	0	0	508									
<b>COMPUTATION: AT 80% DF</b>				<b>MAIN CIRCUIT BREAKER:</b> 500AT, THREE PHASE, 3-POLE, 230V, 60HZ MOLDED CASE CIRCUIT BREAKER												
It = 80% [508] = <b>406 AMPERES</b>				<b>FEEDER WIRE:</b> 2SETS OF 3-125MM2 THWN WIRE + 30MM2 THWN WIRE(G) IN 63MM DIA. IMC												

DISTRIBUTION PANEL BOARD LGF (DP-LGF LW)				LOAD SCHEDULE				MAIN CB: 250AT, 230V, 3POLE, 60HZ								
CKT NO	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE	GROUND WIRE	CONDUIT		
				AB	CA	BC	3ø	POLE	AF	AT	KAIC			SIZE	TYPE	
1	EXISTING PANEL BOARD #1	FEEDER	51,591				70	3	250	100	18	3-30MM2	1-8.0MM2	40MM DIA.	IMC	
2	EXISTING PANEL BOARD #2	FEEDER	51,591				88	3	250	125	18	3-50MM2	1-14MM2	50MM DIA.	IMC	
3	EXISTING PANEL BOARD #3	FEEDER	14,030				42	3	250	60	18	3-14MM2	1-8.0MM2	25MM DIA.	IMC	
4	EXISTING PANEL BOARD #4	FEEDER	14,030				42	3	250	60	18	3-14MM2	1-8.0MM2	25MM DIA.	IMC	
TOTAL CONNECTED LOAD			131,243	0	0	0	242									
<b>COMPUTATION: AT 80% DF</b>				<b>MAIN CIRCUIT BREAKER:</b> 250AT, THREE PHASE, 3-POLE, 230V, 60HZ MOLDED CASE CIRCUIT BREAKER												
It = 80% [242] = <b>193 AMPERES</b>				<b>FEEDER WIRE:</b> 3-125MM2 THWN WIRE + 22MM2 THWN WIRE(G) IN 63MM DIA. IMC												

DISTRIBUTION PANEL BOARD GF (DP-GF LW)				LOAD SCHEDULE				MAIN CB: 315AT, 230V, 3POLE, 60HZ								
CKT NO	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE	GROUND WIRE	CONDUIT		
				AB	CA	BC	3ø	POLE	AF	AT	KAIC			SIZE	TYPE	
1	EXISTING PANEL BOARD #1	FEEDER	51,591				200	3	250	250	18	3-125MM2	1-22MM2	63MM DIA.	IMC	
2	EXISTING PANEL BOARD #2	FEEDER	51,591				80	3	250	100	18	3-30MM2	1-8.0MM2	40MM DIA.	IMC	
3	EXISTING PANEL BOARD #3	FEEDER	14,030				48	3	250	60	18	3-14MM2	1-8.0MM2	25MM DIA.	IMC	
4	SPACE															
TOTAL CONNECTED LOAD			117,213	0	0	0	328									
<b>COMPUTATION: AT 80% DF</b>				<b>MAIN CIRCUIT BREAKER:</b> 315AT, THREE PHASE, 3-POLE, 230V, 60HZ MOLDED CASE CIRCUIT BREAKER												
It = 80% [328] = <b>262 AMPERES</b>				<b>FEEDER WIRE:</b> 3-175MM2 THWN WIRE + 30MM2 THWN WIRE(G) IN 75MM DIA. IMC												

MAIN DISTRIBUTION PANEL BOARD (MDP-LW)				LOAD SCHEDULE				MAIN CB: 630AT, 230V, 3POLE, 60HZ								
CKT NO	DESCRIPTION	DETAILS	LOAD VA	LOAD AMPERE				CIRCUIT BREAKER				CIRCUIT WIRE	GROUND WIRE	CONDUIT		
				AB	CA	BC	3ø	POLE	AF	AT	KAIC			SIZE	TYPE	
1	DP-2F(LW)	FEEDER	80,500				350	3	500	500	35	2x3-125MM2	2x1-30MM2	63MM DIA.	IMC	
2	DP-GF(LW)	FEEDER	50,715				221	3	500	315	35	3-175MM2	1-30MM2	75MM DIA.	IMC	
3	DP-LGF(LW)	FEEDER	40,250				175	3	500	250	35	3-125MM2	1-22MM2	63MM DIA.	IMC	
4	SPACE															
TOTAL CONNECTED LOAD			171,465	0	0	0	746									
<b>COMPUTATION: AT 80% DF</b>				<b>MAIN CIRCUIT BREAKER:</b> 630AT, THREE PHASE, 3-POLE, 230V, 60HZ MOLDED CASE CIRCUIT BREAKER												
It = 80% [746] = <b>596 AMPERES</b>				<b>FEEDER WIRE:</b> 2SETS OF 3-150MM2 THWN WIRE + 30MM2 THWN WIRE(G) IN 63MM DIA. IMC												





<p><b>DEPARTMENT OF AGRICULTURE</b> <b>AGRICULTURAL TRAINING INSTITUTE</b> ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROJECT TITLE: <b>PROPOSED IMPROVEMENT OF MAIN FEEDER LINE, FDAS AND CCTV SYSTEM OF ATI - MAIN BUILDING, CENTRAL OFFICE</b> ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PRODUCE BY: <b>INFRASTRUCTURE SUPPORT TEAM</b> ATI-CENTRAL OFFICE ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>DESIGN: <b>JOSELITO A. REYES JR</b> PROFESSIONAL ELECTRICAL ENGINEER PTR NO.: 0124821 DATE ISSUED: 10/21/19 DATE ISSUED: 01/05/22 DATE ISSUED: 05/03/22 PLACED ISSUED: MANILA PLACED ISSUED: MANILA</p>	<p>RECOMMENDING APPROVAL: <b>ANTONIETA J. ARCEO</b> OIC - ASSISTANT DIRECTOR</p>	<p>APPROVED BY: <b>ROSANA P. MULA, Ph.D.</b> DIRECTOR IV</p>	<p>DESIGN BY: JP DATE: JUNE 2022 CAD BY: JP DATE: JUNE 2022 CHECKED BY:</p>	<p>SHEET NO.: <b>E - 5</b> 05 12</p>
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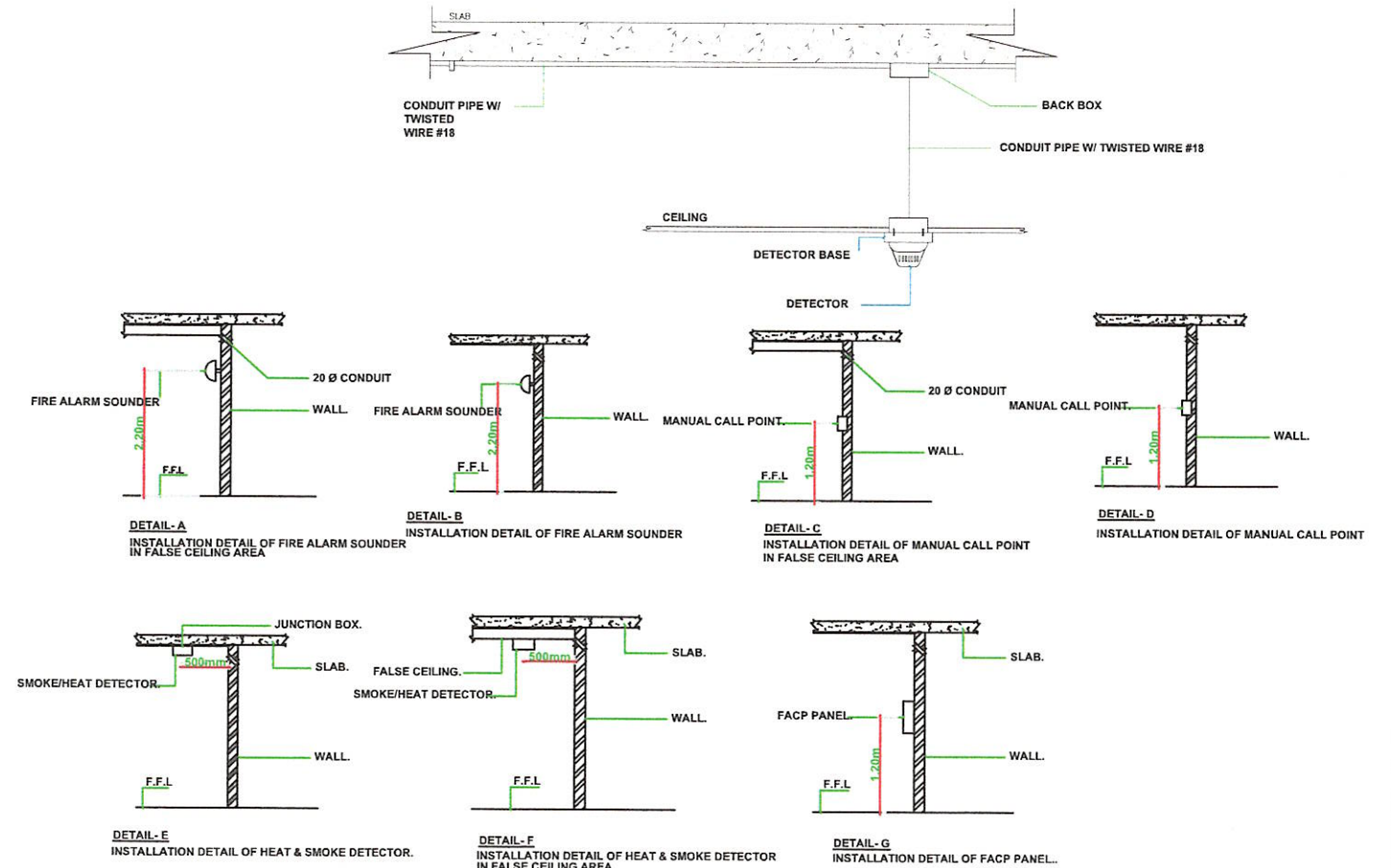
## LEGENDS AND SYMBOLS

### GENERAL NOTES FOR FIRE DETECTION AND ALARM SYSTEM

- ALL FIRE DETECTION AND ALARM SYSTEM INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FIRE CODE, AND THE RULES AND REGULATIONS OF THE LOCAL FIRE BUREAU.
- THE FIRE DETECTION AND ALARM SYSTEM SHALL BE DESIGNED AND CONSTRUCTED SO THAT THERE ARE APPROPRIATE PROVISIONS FOR THE EARLY WARNING OF FIRE, AND APPROPRIATE MEANS OF ESCAPE IN CASE OF FIRE FROM THE BUILDING TO A PLACE OF SAFETY OUTSIDE THE BUILDING CAPABLE OF BEING SAFELY AND EFFECTIVELY USED AT ALL MATERIAL TIMES.
- THE FIRE DETECTION PRINCIPLE INCORPORATED HEREIN IS OF A CONVENTIONAL SYSTEM TYPE AND IS WIRED IN A CLASS "B" MANNER (WITH END OF LINE RESISTOR), RISER DIAGRAM PROVIDED HEREIN SHALL BE USED AS A REFERENCE FOR THE DIFFERENT ZONE DESIGNATIONS.
- FIRE ALARM CONTROL PANEL (FACP) MUST BE PRESET IN SUCH A WAY THAT THE ZONE IN EACH DETECTOR FOLLOWS SIMILARLY AS INDICATED ON THE RISER DIAGRAM, AND THE CONTROL PANEL IS PROGRAMMED TO DISPLAY THE INFORMATION REQUIRED WHEN THAT PARTICULAR DETECTOR IS OPERATED. ADDITIONAL FIELD DEVICES ARE AVAILABLE WHICH MAY BE WIRED TO THE LOOP FOR DETECTION ONLY IF IT IS NECESSARY.
- FIRE ALARM CONTROL PANEL MUST SITUATED IN AN AREA THAT IS FULLY AIR CONDITIONED SO THAT THE ELECTRONIC COMPONENTS OPERATE WELL. TWO POWER SUPPLIES ARE REQUIRED, (eg: MAINS AND BATTERY) AND THESE ARE NORMALLY BUILT INTO THE FIRE ALARM CONTROL PANEL. STANDBY BATTERIES MUST ALLOW THE SYSTEM TO OPERATE WITHOUT MAINS FOR 24 HOURS LONGER THAN THE BUILDING IS LIKELY TO BE UNOCCUPIED AND THEN SUPPORT THE SOUNDERS FOR AN ADDITIONAL HALF HOUR. IF THE MAINS SUPPLY IS SUPPORTED BY AN EMERGENCY GENERATOR, THEN SIX HOURS STANDBY PLUS HALF AN HOUR ALARM LOAD IS SUFFICIENT. ALL MODERN FIRE ALARM SYSTEMS ARE 24 VOLTS. ON THE MEDIUM AND LARGER SIZED FIRE ALARM SYSTEMS, THE STANDBY BATTERIES WILL OFTEN NOT FIT WITHIN THE CONTROL PANEL. WHERE STANDBY BATTERIES ARE CONTAINED WITHIN A SEPARATE HOUSING, THEN THIS HOUSING MUST BE AS CLOSE AS POSSIBLE TO THE MAIN FIRE ALARM CONTROL PANEL. IF THE POWER SUPPLY OR BATTERY HOUSING IS LOCATED MORE THAN 10 METRES FROM THE MAIN FIRE ALARM CONTROL PANEL THEN SERIOUS VOLT DROP PROBLEMS CAN ARISE.
- SOUNDERS ARE WIRED IN A WAY THAT THESE ARE EXACTLY CONNECTED TO LOOP ISOLATION MODULES OR SIGNALING DEVICES ADAPTER COMMONLY. MOREOVER, SOUNDERS ARE CONNECTED IN A CLASS "A" MANNER AND LOOP ISOLATION MODULES ARE AVAILABLE FOR FITTING ON TO THE DETECTION LOOP/LOOPS SUCH THAT THE LOOP IS ASECTIONED IN ORDER TO ENSURE THAT A EVERY BUILDING LEVEL MUST BE PROVIDED WITH SEPARATE OUTPUT DEVICE SIGNAL WHENEVER ONE LOOP IS SHORT CIRCUITED OR THE OTHER WAY AROUND.
- LED ALARM ANNUNCIATOR TOGETHER WITH THE FIREFIGHTER'S TELEPHONE JACK MUST ALSO BE WIRED ACCORDINGLY AS SPECIFIED ON THIS PLAN AND SHALL BE INSTALLED BESIDE MANUAL CALL POINT STATION. AT LEAST TWO SETS OF FIREFIGHTER'S PLUGGABLE PHONE SHALL BE PROVIDED FOR EVERY SYSTEM AND SHALL BE LOCATED NEAR FIRE ALARM CONTROL PANEL FOR EASY RETRIEVAL DURING EMERGENCY AND FIRE SITUATION.
- MOUNTING HEIGHTS OF FIRE DETECTION DEVICES ARE THE FOLLOWING:
 

A. DETECTORS	(CEILING-MOUNTED), VARIES
B. SOUNDERS	2.20 meters
C. MANUAL PULL STATION	1.20 meters
D. FIREFIGHTER'S TELEPHONE JACK	1.40 meters
E. CONTROL PANEL	1.40 meters
- ALL KINDS OF CURRENT-CARRYING CONDUCTORS MUST BE OF FIRE-RETARDANT TYPE. CONDUCTOR SIZE SHOULD TAKE VOLTAGE DROP INTO ACCOUNT. IN ANY CASE CONDUCTORS SHOULD HAVE A CROSS SECTIONAL AREA OF NOT LESS THAN 1 SQUARE MILLIMETER. UNLESS A DETECTION CIRCUIT OR DETECTOR LOOP EXCEEDS 1 KILOMETRE IN LENGTH, IT IS UNLIKELY TO GIVE RISE TO A CONCERN ABOUT VOLTAGE DROP. IF THERE ARE FAIRLY LONG SOUNDER CIRCUITS OR A SOUNDER CIRCUIT HAS A LARGE NUMBER OF SOUNDERS/BUZZERS, VOICE ALARMS OR FLASHING BEACONS ETC ON IT, THEN VOLTAGE DROPS CAN CAUSE PROBLEMS. PROVIDING THE OVERALL VOLT DROP DOES NOT EXCEED 4 VOLTS ON SOUNDER CIRCUIT THEN THE SYSTEM SHOULD OPERATE SATISFACTORILY.
- FIRE ALARM CABLES, SHOULD ALWAYS BE SEGREGATED FROM CABLES FOR OTHER SYSTEMS TO MINIMIZE HARMONIC INTERFERENCES. AS FAR AS POSSIBLE, JOINTS SHOULD BE AVOIDED EXCEPT WHERE A JOINT IS INSIDE ONE OF THE SYSTEMS COMPONENTS (eg: CONTROL PANEL, DETECTOR, CALL POINT, SOUNDER ETC.) WHERE JOINTS ARE REQUIRED ELSEWHERE THEY SHOULD BE ENCLOSED IN A SUITABLE JUNCTION BOX MARKED FIRE ALARM TO ENSURE THAT THE FIRE ALARM SYSTEMS IS NOT ACCIDENTALLY INTERFERED WITH. GOOD WIRING INSTALLATION PRACTICES MUST BE OBSERVED DURING THE ENTIRE DURATION OF INSTALLATION.
- WHERE POSSIBLE CABLES SHOULD BE ROUTED THROUGH AREAS OF LOW FIRE RISK. CABLES INSTALLED IN DAMP, CORROSIVE OR UNDERGROUND LOCATIONS SHOULD BE PVC SHEATHED AND WHERE THERE IS A RISK OF MECHANICAL DAMAGE SHOULD BE PROTECTED ACCORDINGLY. IF CABLES ARE INSTALLED LESS THAN 1.40 M ABOVE THE FLOOR SHOULD THEY NORMALLY BE PROTECTED. ELECTRICAL METTALIC TUBING (EMT) PIPES SHALL BE USED ON ALL EXPOSED TYPE OF RACEWAYS. FLEXIBLE METALLIC TUBING MUST BE USED ON EXPOSED CABLE DROPPING.
- THE INTENTION OF THIS PLAN, NOTES AND SPECIFICATION IS TO KEEP THE INFORMATION GIVEN AS SIMPLE AS POSSIBLE. THIS NECESSITATES THE OMISSION OF MUCH INFORMATION CONTAINED WITHIN THE VARIOUS FIRE BUREAU STANDARDS AND THE REQUIREMENT OF THE VARIOUS FIRE ACTS.
- ALL COMPONENTS, CIRCUITS, SYSTEM OPERATIONS AND PRE-SET CONTROL PANEL SOFTWARE FUNCTIONS KNOWN TO BE AFFECTED BY CHANGES OR MODIFICATIONS MADE TO THE SYSTEM MUST BE 100 PERCENT TESTED. ALL FIXTURES REFLECTED HEREIN ARE REPRESENTATION DRAWINGS ONLY. THIS DRAWING DOESN'T DIRECTLY SHOW THE ACTUAL APPEARANCE OF EACH FIXTURES WHILE ACTUAL DETERMINATION OF EXACT LOCATION MUST BE DONE BY THE CONTRACTOR DURING PRE-BID CONFERENCE AND DURING THE START OF INSTALLATION.
- ALL WIRING AND FIRE ALARM DEVICES INSTALLATIONS HEREIN SHALL DONE UNDER THE DIRECT SUPERVISION OF A LICENSED ELECTRONICS ENGINEER AND ELECTRICAL ENGINEER.

SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
 	PHOTOELECTRIC SMOKE DETECTOR, 24VDC,	VARIES, CEILING MOUNTED
 	HEAT DETECTOR, FIXED TYPE, 24VDC	VARIES, CEILING MOUNTED
AS SL	ALARM SOUNDER WITH STROBE LIGHT	2.20 meters from Center to Finish Floor Line
M	MANUAL PULL STATION	1.20-1.40 meters from Center to Finish Floor Line
FACP	FIRE ALARM CONTROL PANEL, 16 ZONE	1.50 meters from Center to Finished Floor Line

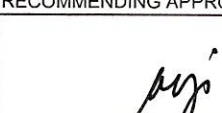


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 ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PRODUCE BY:  
**INFRASTRUCTURE SUPPORT TEAM**  
 ATI-CENTRAL OFFICE  
 ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

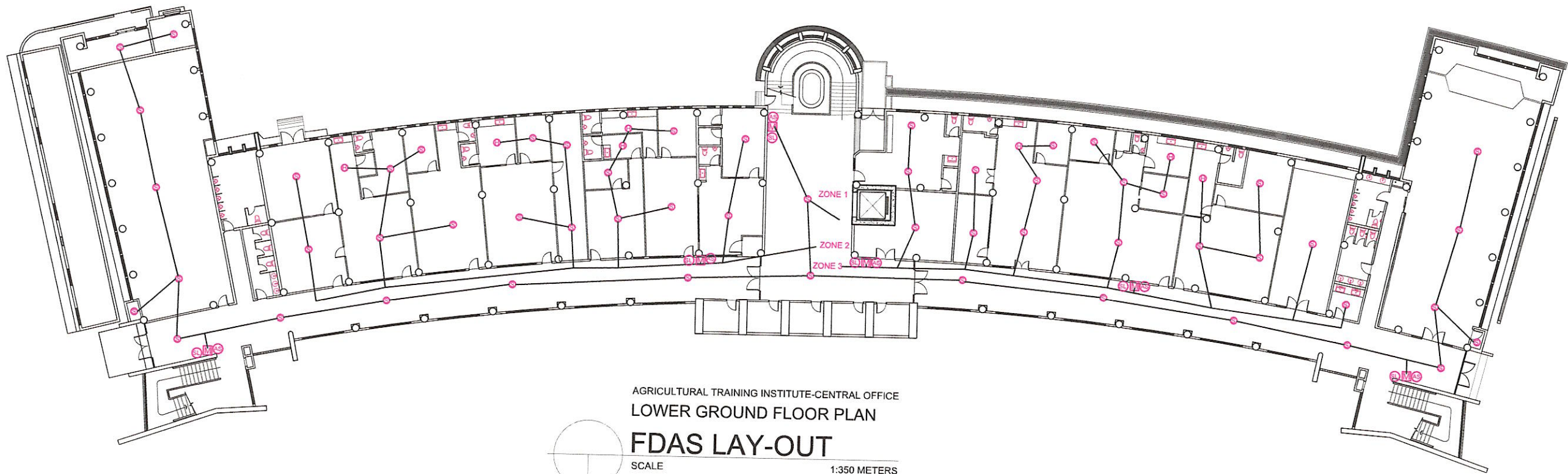
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**JOSEFINA A. REYES JR**  
 PROFESSIONAL ELECTRICAL ENGINEER  
 PRC NO.: 004628 DATE ISSUED: 10/02/19  
 PTR NO.: 0124821 CTC NO.: 26103715  
 DATE ISSUED: 01/05/22 DATE ISSUED: 05/03/22  
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RECOMMENDING APPROVAL:  
  
**ANTONIETA J. ARCEO**  
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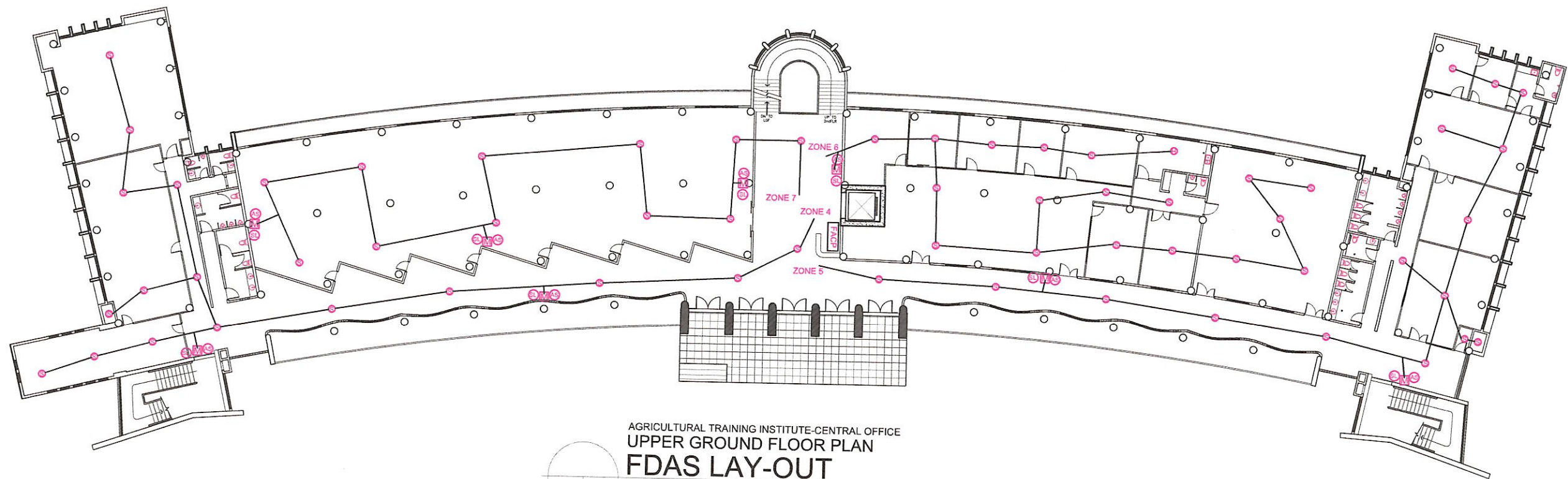
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**ROSANA P. MULA, Ph.D.**  
 DIRECTOR IV

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AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE  
 LOWER GROUND FLOOR PLAN  
**FDAS LAY-OUT**  
 SCALE 1:350 METERS



AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE  
 UPPER GROUND FLOOR PLAN  
**FDAS LAY-OUT**  
 SCALE 1:350 METERS



**DEPARTMENT OF AGRICULTURE**  
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**FEEDER LINE, FDAS AND CCTV SYSTEM**  
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PRODUCE BY:  
**INFRASTRUCTURE**  
**SUPPORT TEAM**  
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DESIGN:  
**JOSE LITO A. REYES JR.**  
 PROFESSIONAL ELECTRICAL ENGINEER  
 PTR NO.: 0094628 DATE ISSUED: 10/02/19  
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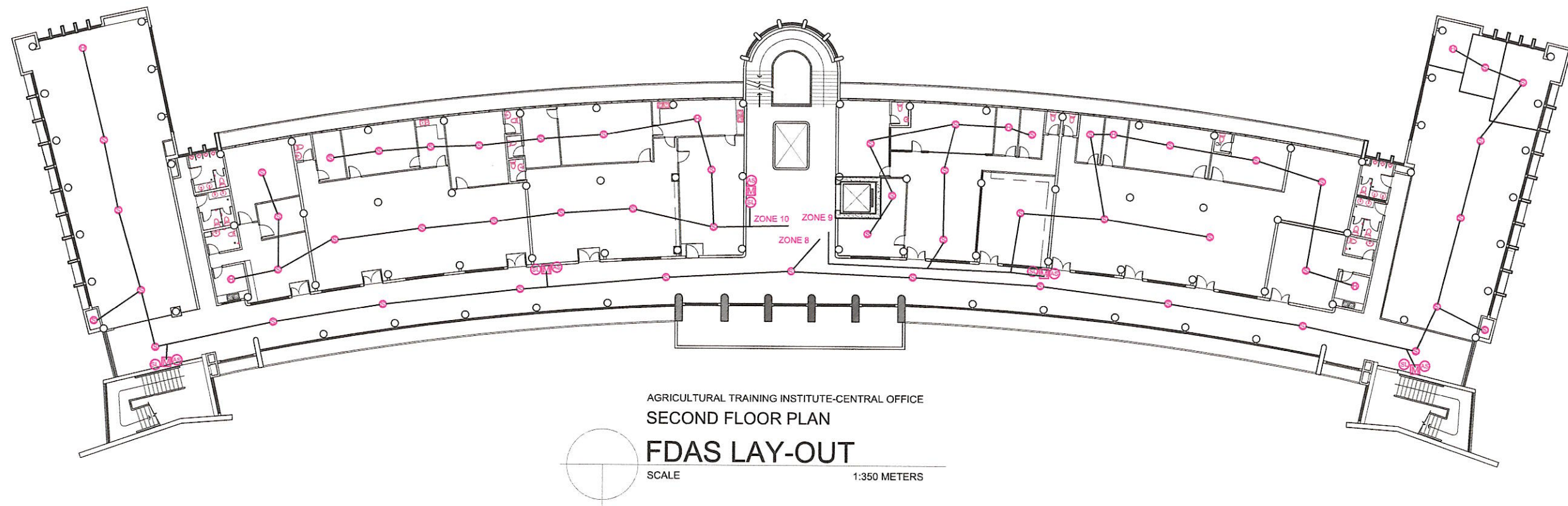
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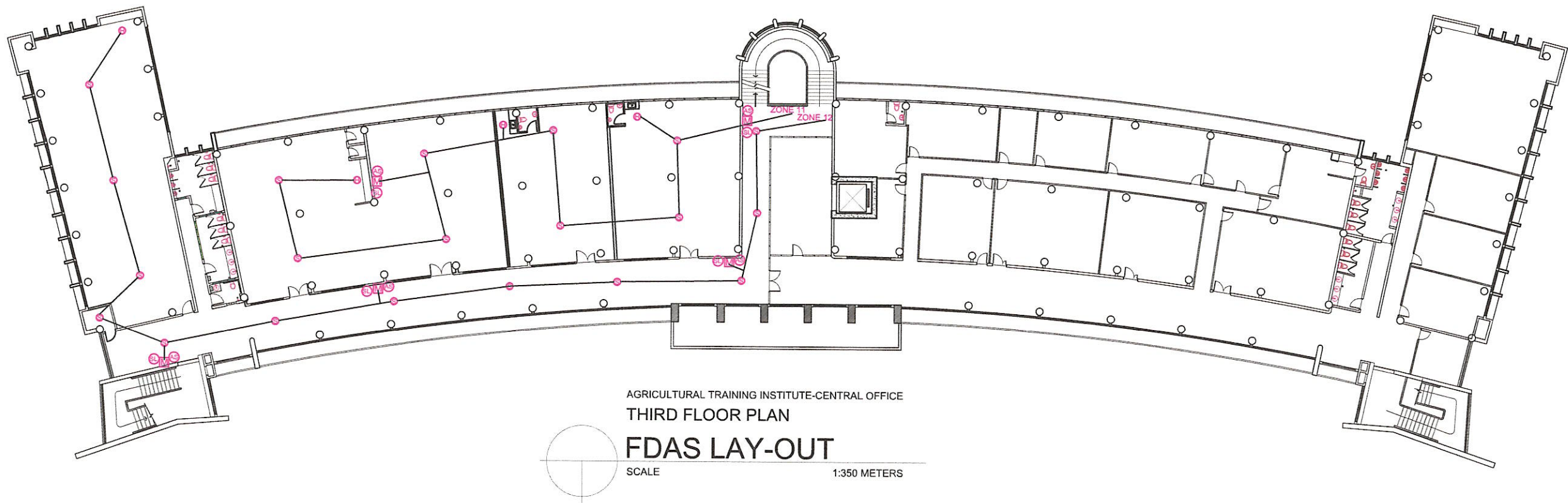


AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE

SECOND FLOOR PLAN

FDAS LAY-OUT

SCALE 1:350 METERS



AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE

THIRD FLOOR PLAN

FDAS LAY-OUT

SCALE 1:350 METERS



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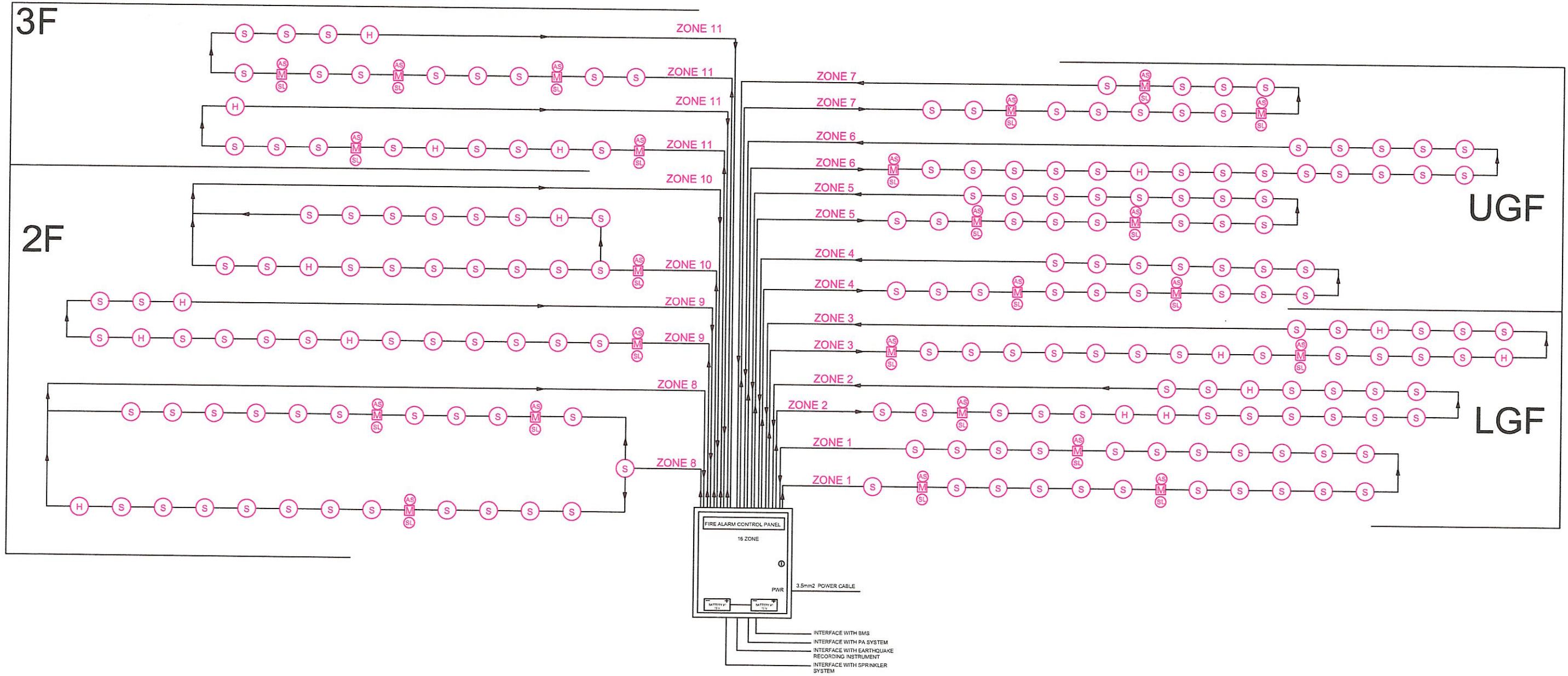
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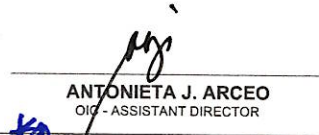


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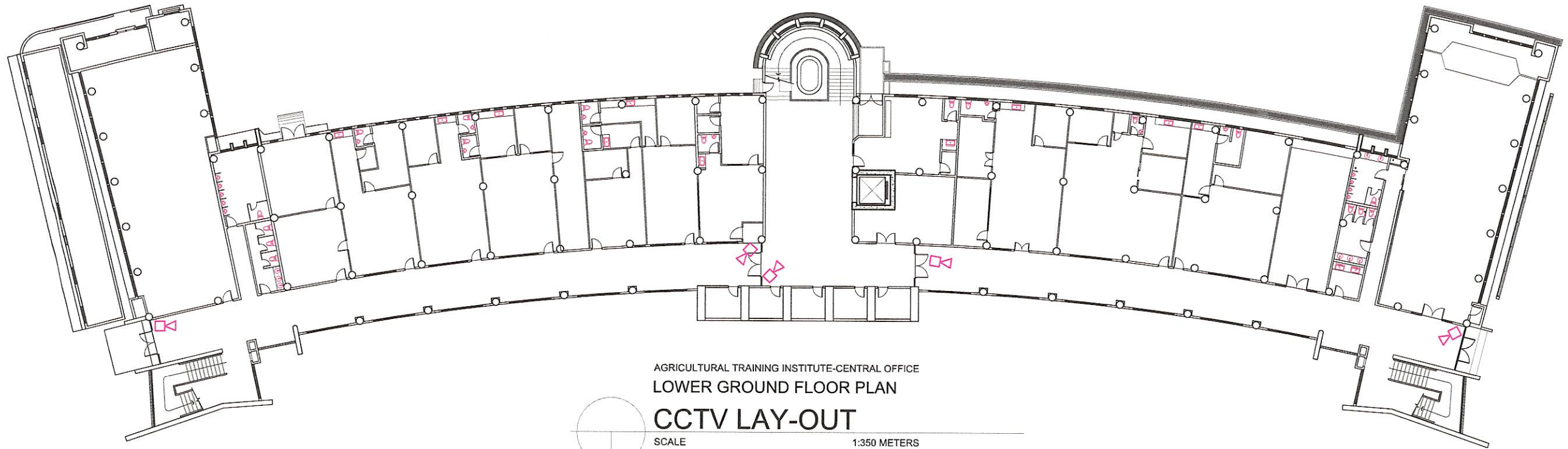
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**FDAS SINGLE LINE DIAGRAM**  
 SCALE \_\_\_\_\_ NTS

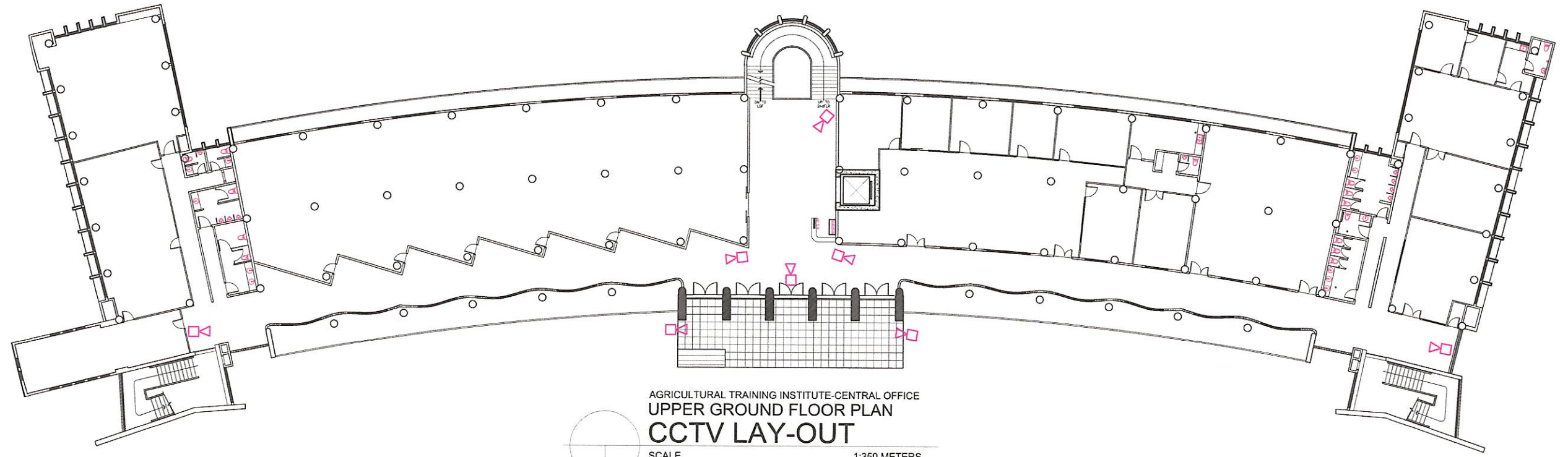
 <p><b>DEPARTMENT OF AGRICULTURE</b>  <b>AGRICULTURAL TRAINING INSTITUTE</b>          ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	PROJECT TITLE: <b>PROPOSED IMPROVEMENT OF MAIN FEEDER LINE, FDAS AND CCTV SYSTEM OF ATI - MAIN BUILDING, CENTRAL OFFICE</b> ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	PRODUCE BY: <b>INFRASTRUCTURE SUPPORT TEAM</b> ATI-CENTRAL OFFICE ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	DESIGN: <b>JOSELYN O. REYES JR.</b> PROFESSIONAL ELECTRICAL ENGINEER PTR NO.: 0124821 DATE ISSUED: 10/02/19 DATE ISSUED: 01/05/22 CTG NO.: 26103715 PLACED ISSUED: MANILA DATE ISSUED: 05/03/22 PLACED ISSUED: MANILA	RECOMMENDING APPROVAL:  <b>ANTONIETA J. ARCEO</b> OIG - ASSISTANT DIRECTOR	APPROVED BY:  <b>ROSANA P. MULA, Ph.D.</b> DIRECTOR IV	DESIGN BY: JP DATE: JUNE 2022 CAD BY: JP DATE: JUNE 2022 CHECKED BY:	SHEET NO.: <b>E - 9</b> 09 12
							



AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE  
LOWER GROUND FLOOR PLAN

**CCTV LAY-OUT**

SCALE 1:350 METERS



AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE  
UPPER GROUND FLOOR PLAN

**CCTV LAY-OUT**

SCALE 1:350 METERS



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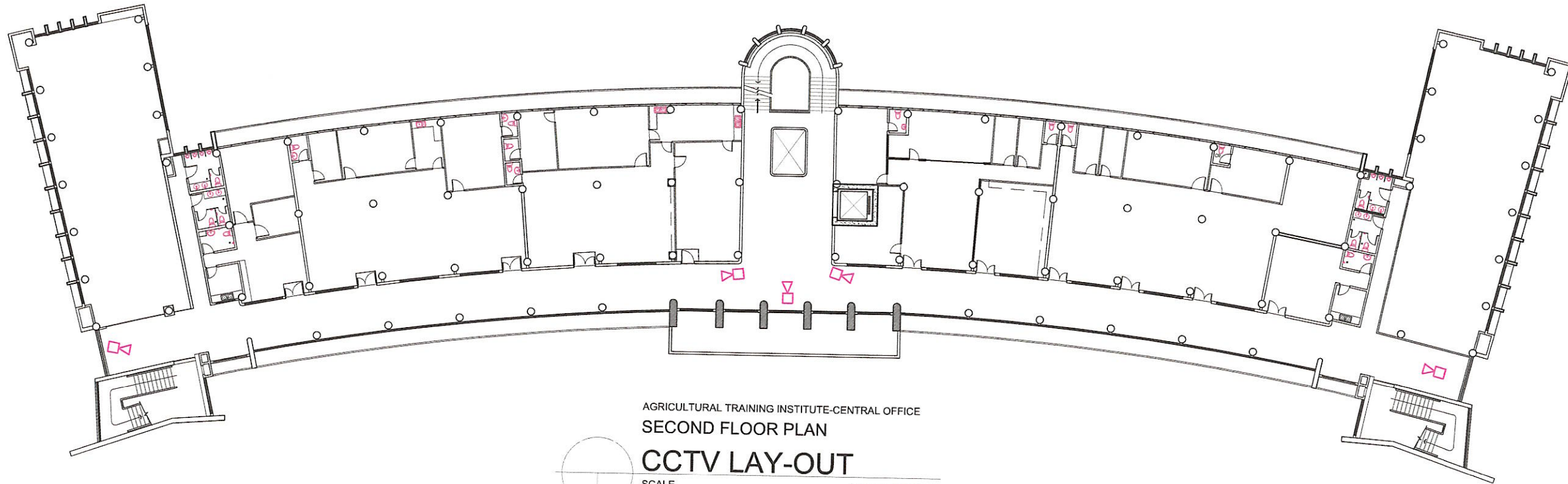
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*Antonieta J. Arceo*  
**ANTONIETA J. ARCEO**  
OIC - ASSISTANT DIRECTOR

APPROVED BY:  
*Rosana P. Mula*  
**ROSANA P. MULA, Ph.D.**  
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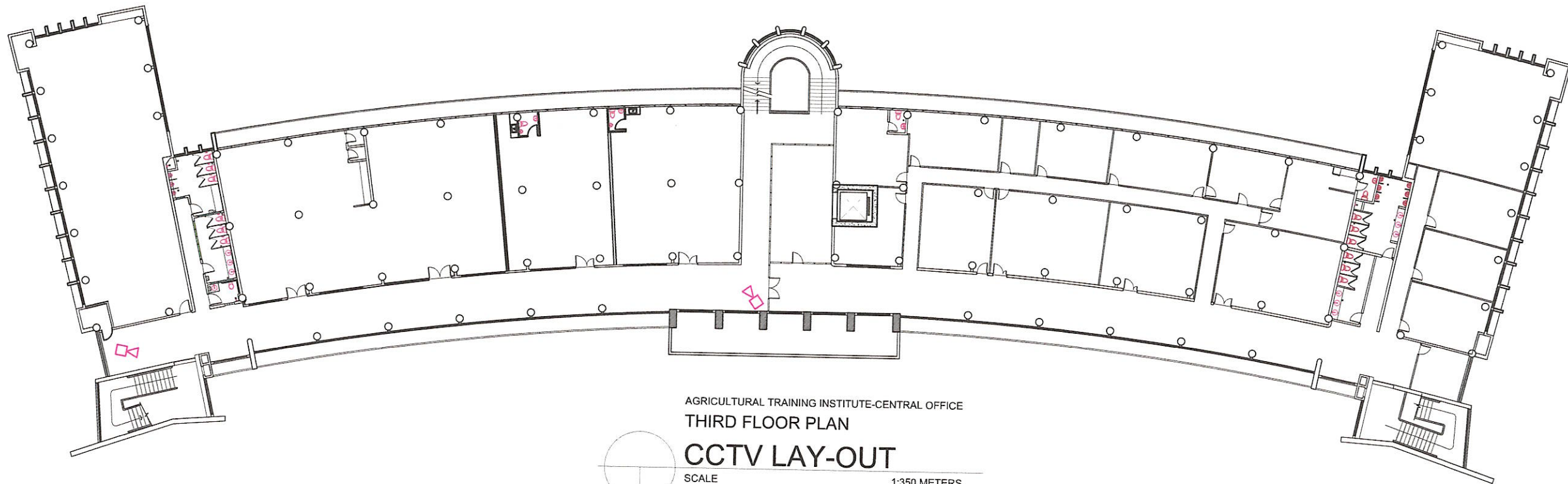
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AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE  
SECOND FLOOR PLAN

**CCTV LAY-OUT**

SCALE 1:350 METERS



AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE  
THIRD FLOOR PLAN

**CCTV LAY-OUT**

SCALE 1:350 METERS



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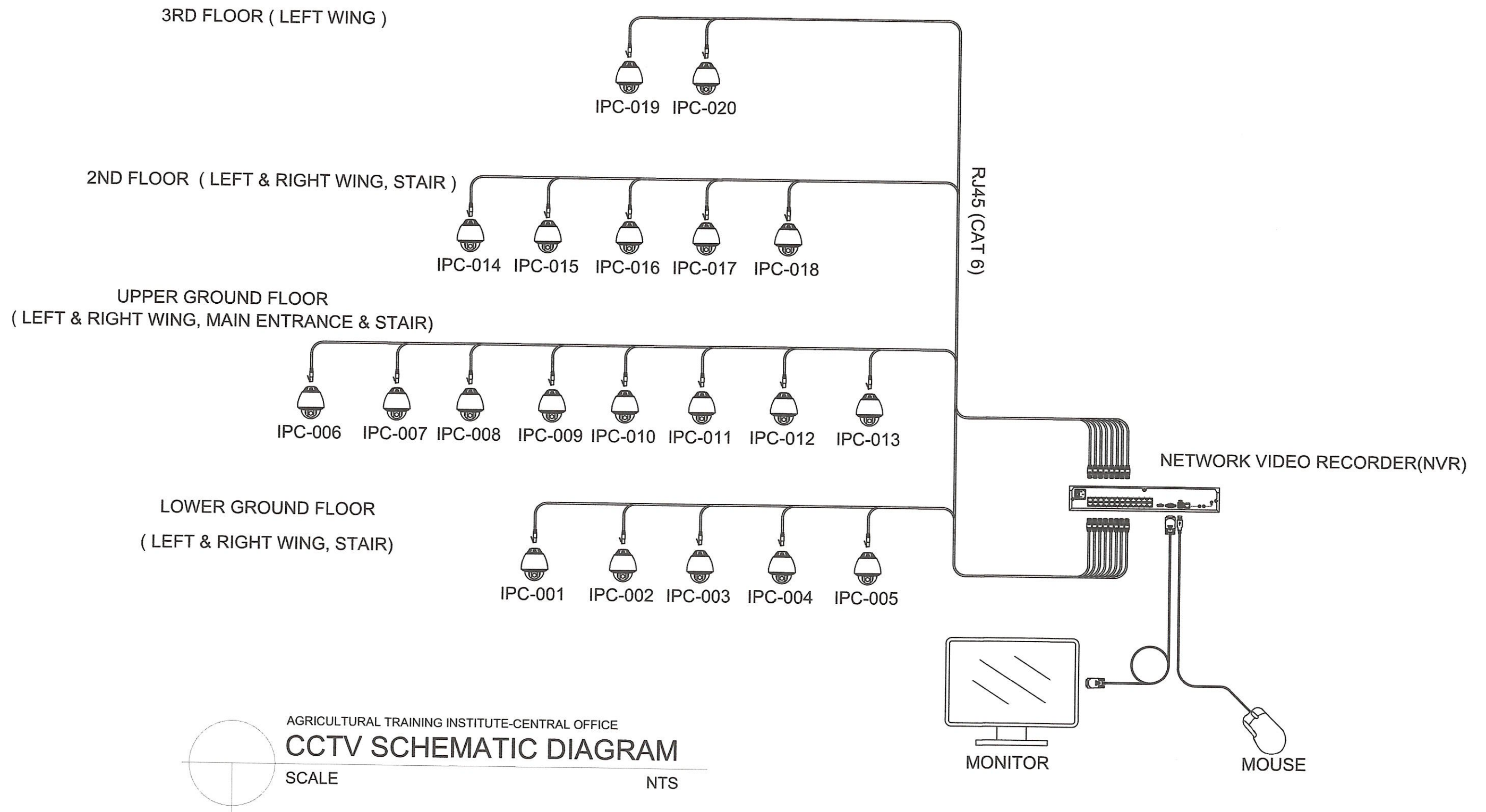
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*[Signature]*  
**ANTONIETA J. ARCEO**  
OIC, ASSISTANT DIRECTOR

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*[Signature]*  
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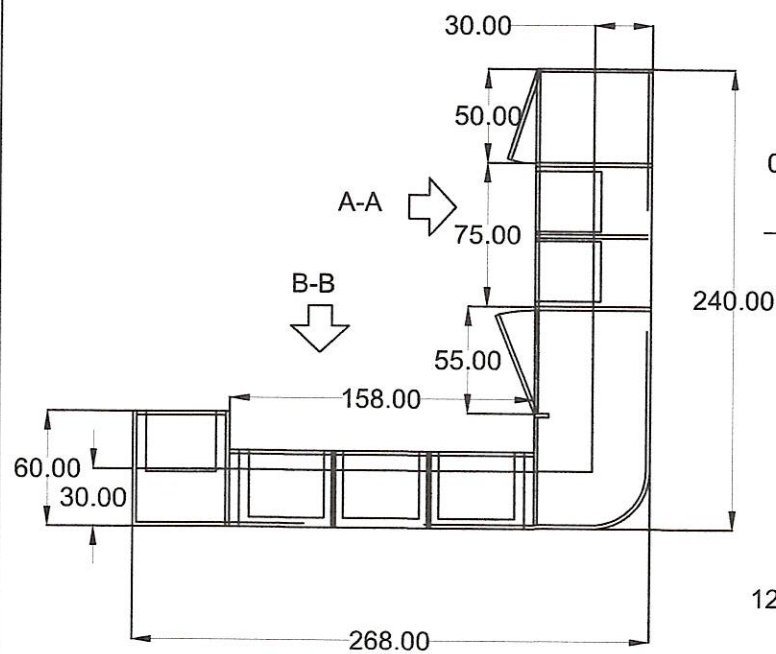
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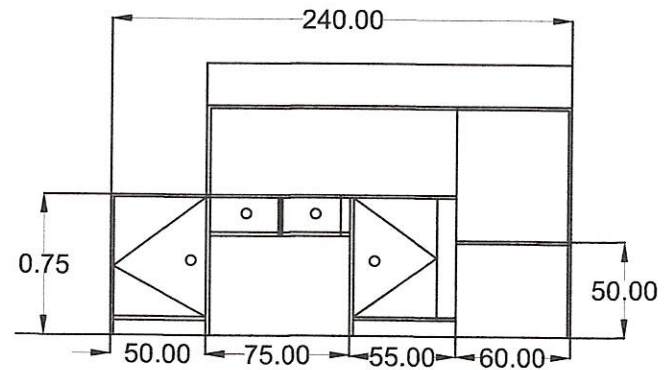
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DIRECTOR IV

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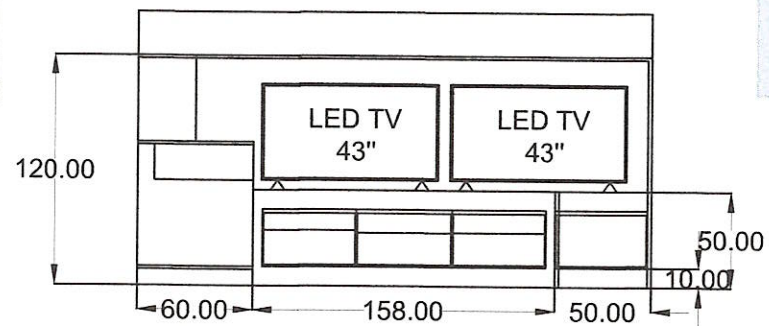
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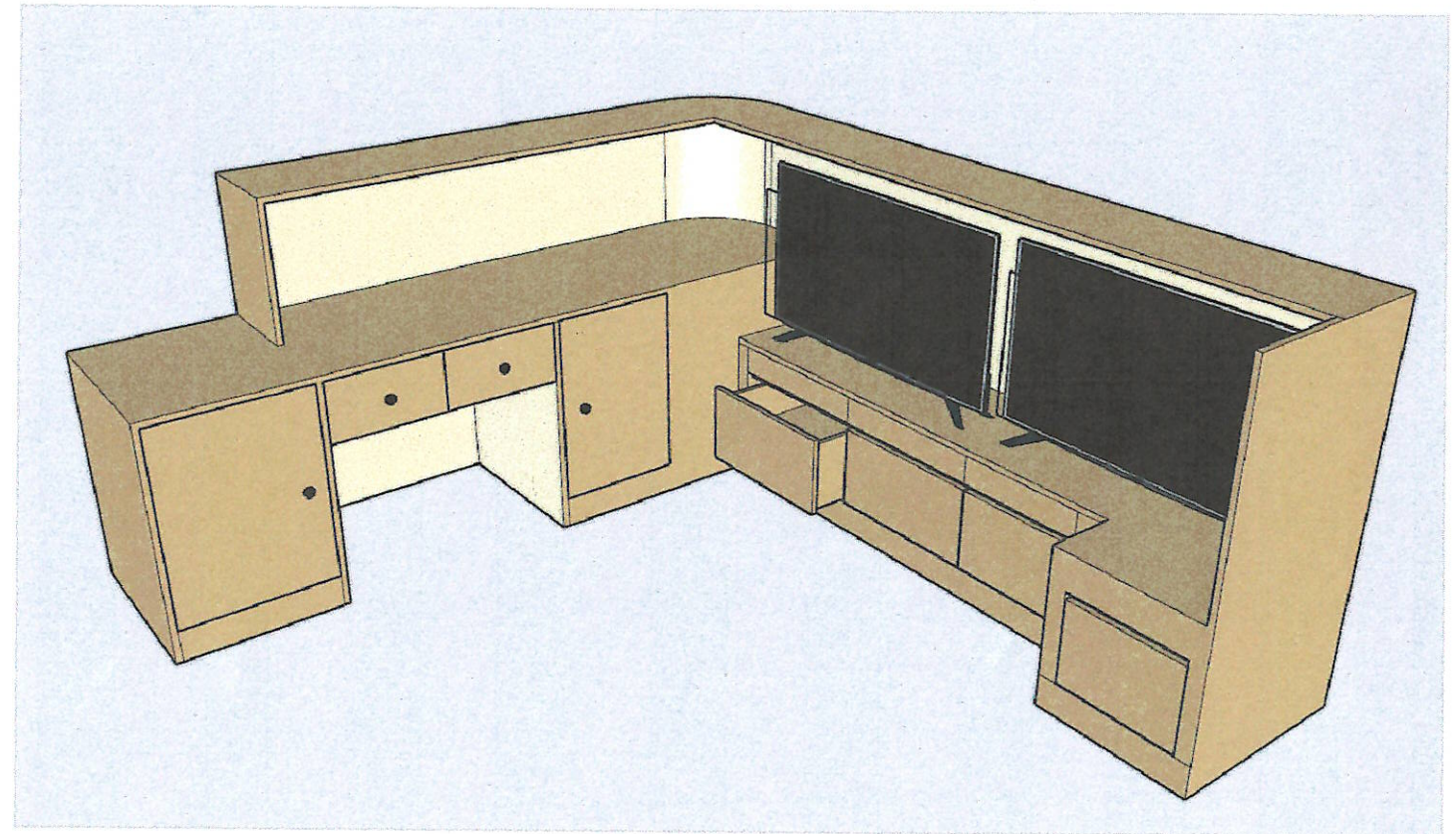
PLAN



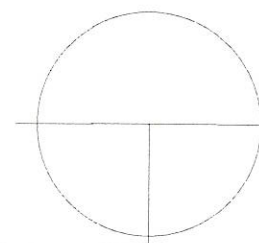
ELEVATION A-A



ELEVATION B-B






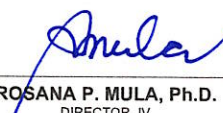
PERSPECTIVE



AGRICULTURAL TRAINING INSTITUTE-CENTRAL OFFICE  
**LOBBY DESK - CCTV MONITOR RACK**

SCALE

NTS

 <p><b>DEPARTMENT OF AGRICULTURE</b>  <b>AGRICULTURAL TRAINING INSTITUTE</b>          ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	PROJECT TITLE: <b>PROPOSED IMPROVEMENT OF MAIN FEEDER LINE, FDAS AND CCTV SYSTEM OF ATI - MAIN BUILDING, CENTRAL OFFICE</b> ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	PRODUCE BY: <b>INFRASTRUCTURE SUPPORT TEAM</b> ATI-CENTRAL OFFICE ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	DESIGN:  <b>JONEL PERALTA</b> CIVIL ENGINEER <small>PRC NO.: 0151117 DATE ISSUED: 05/22/17          PTR NO.: DATE ISSUED:          DATE ISSUED: DATE ISSUED:          PLACED ISSUED: PLACED ISSUED:</small>	RECOMMENDING APPROVAL:  <b>ANTOMIETA J. ARCEO</b> OIC - ASSISTANT DIRECTOR	APPROVED BY:  <b>ROSANA P. MULA, Ph.D.</b> DIRECTOR IV	DESIGN BY: JP DATE: JUNE 2022 CAD BY: JP DATE: JUNE 2022 CHECKED BY:	SHEET NO.: <b>A - 01</b> 01   01