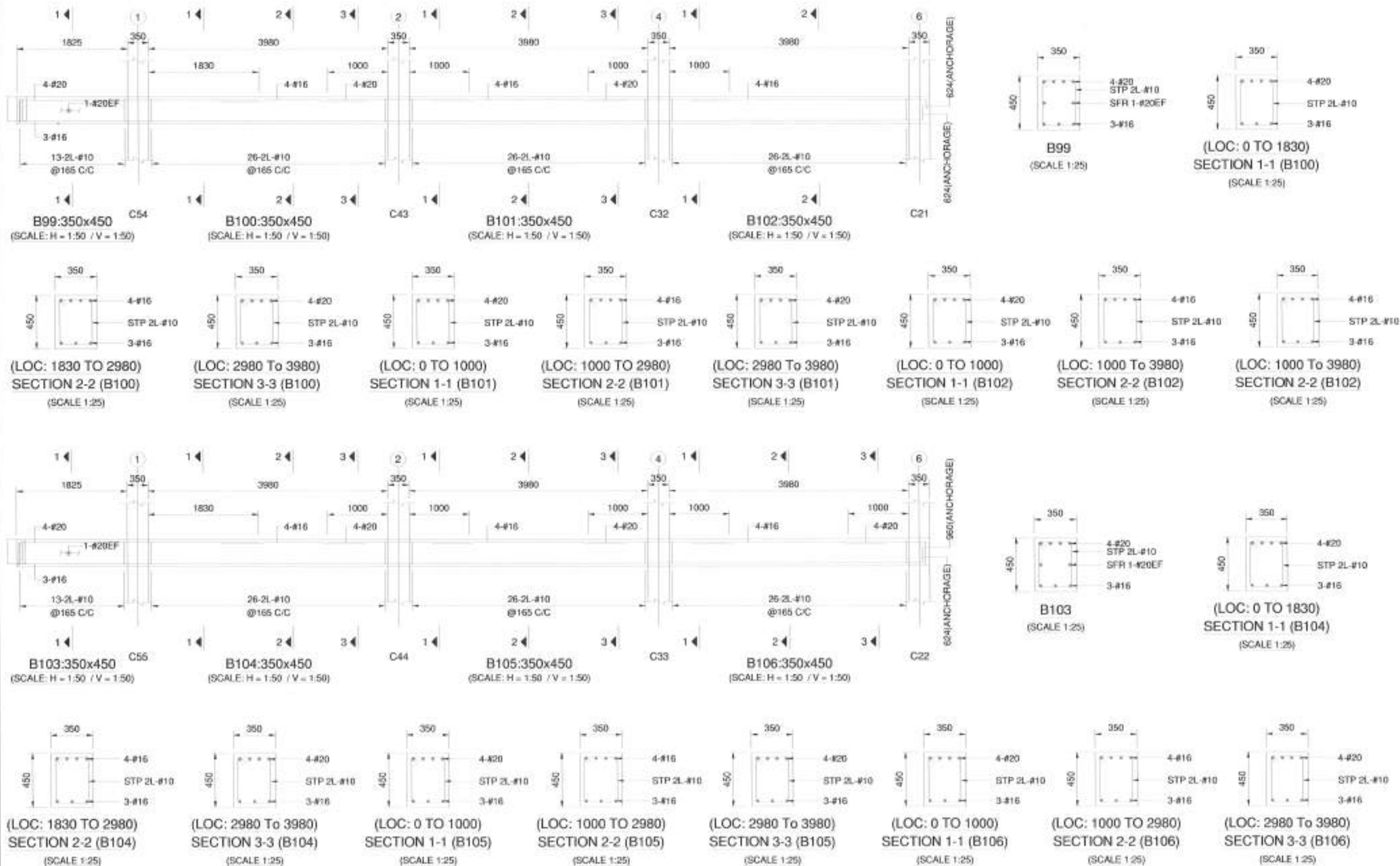
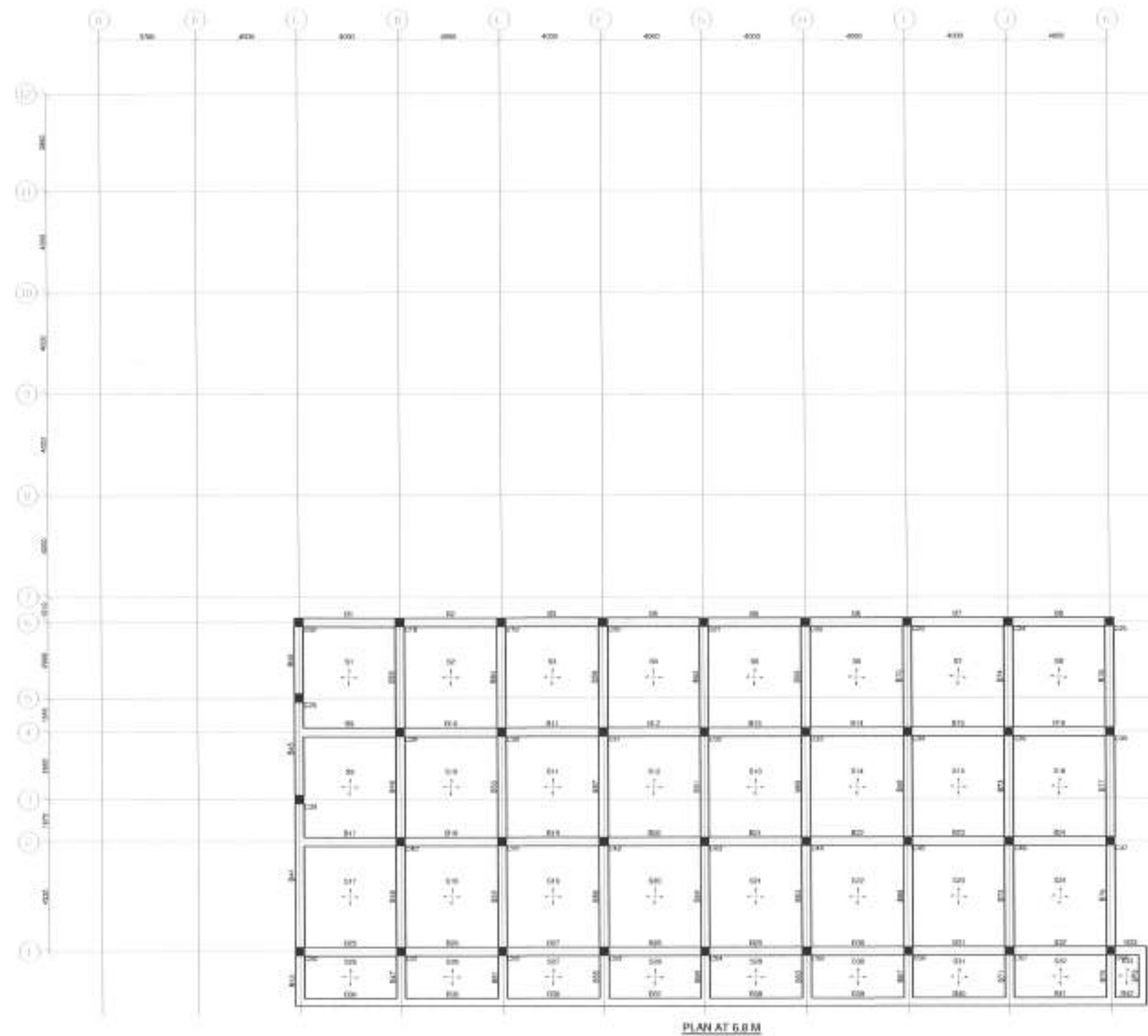




 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII CORPORATE CENTER, BALAY PULO, AYOITE	PROJECT TITLE: CONSTRUCTION OF INNOVATION INNOVATION CENTER BUILDING, PALAWAN INSTITUTE OF TECHNOLOGY LOCATION: 8807, DORADO, PALAWAN, P.I.	SHEET CONTENTS: STRUCTURAL BEAM DETAILS	PREPARED: ENGR. ELIAS J. JAVILLA, JR. STRUCTURAL ENGINEER	SUBMITTED: LUDAS R. BACSA CLERK, MATERIALS ENGINEER	RECOMMENDED: MA. MARICRITA C. JAVILLA, DML ASSISTANT REGIONAL DIRECTOR	APPROVED: EDGAR B. TABACON, CESO IV REGIONAL DIRECTOR	CONCURRED: DENNIS A. PEAR, S.E.D. UNIVERSITY OF PALAW	SHEET NO. 5 SHEET NO. 70
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1 **STRUCTURAL PLAN**
S-46 SCALE: 1:200 MTS.

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII GOVERNMENT CENTER, NAGA, ILOCOS	PROJECT TITLE: CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING- PALIPON INSTITUTE OF TECHNOLOGY	SHEET CONTENTS: STRUCTURAL PLAN	PREPARED: ENGR. ELGAR JEROME T. BACLANAN STRUCTURAL ENGINEER	SUBMITTED: LUCAS N. BACSAI CHIEF, MAINTENANCE DIVISION	RECOMMENDED: MA. MARGARITA C. JUNA, D.M. ASSISTANT REGIONAL DIRECTOR	APPROVED: EDGAR B. TABACON, CESO IV REGIONAL DIRECTOR	CONCURRED: DENNIS A. BACALAR, E.L.D. ASSISTANT REGIONAL DIRECTOR	SET NO. 8 46/56	SHEET NO. 73 101
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BEAM SCHEDULE (C45 : Fy414) (LEVEL: 6.8 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1,B17	350	450	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	9-2L-#10@165 C/C	7-2L-#10@165 C/C	9-2L-#10@165 C/C	1-#20EF	-	-
B2,B3,B4,B5,B6,B7 B8,B9,B10,B11,B12 B13,B14,B15,B16 B18,B19,B20,B21 B22,B23,B24,B25 B26,B27,B28,B29 B30,B31,B32	350	450	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	9-2L-#10@165 C/C	7-2L-#10@165 C/C	9-2L-#10@165 C/C	-	-	-
B33	350	450	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	4-2L-#10@165 C/C	2-2L-#10@165 C/C	4-2L-#10@165 C/C	1-#20EF	-	CANTILEVERED
B34,B35,B36,B37 B38,B39,B40,B41	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	10-2L-#10@140 C/C	8-2L-#10@140 C/C	10-2L-#10@140 C/C	-	-	-
B42	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	4-2L-#10@140 C/C	2-2L-#10@140 C/C	4-2L-#10@140 C/C	-	-	CANTILEVERED
B43,B47,B51,B55 B59,B63,B67,B71 B75	350	450	3-#16	3-#16	3-#16	4-#16	4-#16	4-#16	5-2L-#10@165 C/C	3-2L-#10@165 C/C	5-2L-#10@165 C/C	1-#20EF	-	CANTILEVERED
B44	350	450	3-#16	3-#16	3-#16	4-#16	4-#16	4-#16	13-2L-#10@165 C/C	11-2L-#10@165 C/C	13-2L-#10@165 C/C	1-#16EF	-	-
B45	350	450	3-#16	3-#16	3-#16	4-#16	4-#16	4-#16	9-2L-#10@165 C/C	7-2L-#10@165 C/C	9-2L-#10@165 C/C	1-#20EF	-	-
B46	350	450	3-#16	3-#16	3-#16	4-#16	4-#16	4-#16	7-2L-#10@165 C/C	5-2L-#10@165 C/C	7-2L-#10@165 C/C	-	-	-
B48,B49,B50,B52 B53,B54,B56,B57 B58,B60,B61,B62 B64,B65,B68,B68 B69,B70,B72,B73 B74,B76,B77,B78	350	450	3-#16	3-#16	3-#16	4-#16	4-#16	4-#16	10-2L-#10@165 C/C	8-2L-#10@165 C/C	10-2L-#10@165 C/C	-	-	-
B79	300	400	3-#16	3-#16	3-#16	3-#16	3-#16	3-#16	5-2L-#10@140 C/C	3-2L-#10@140 C/C	5-2L-#10@140 C/C	1-#16EF	-	-



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, SARAY, PAUL LEYTE

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING PALERMO INSTITUTE OF TECHNOLOGY
LOCATION: 3800 GUSMAN BL, PALERMO, TEXAS

SHEET CONTENTS:	
	WILLIAM SCHMIDT, M.D.

ENGR. ELIZAR JEROME T. BACLEA-AM
STRUCTURAL ENGINEER

SUBMITTED: 
LUCAS N. BACCAL
DIRECT, INFORMATION DESIGN
DATE: 

RECOMMENDED:

[Signature]
NA, MARGARITA C. JINIA, D.M.
ASSISTANT REGIONAL DIRECTOR

APPROVED: _____
EDGAR A. TABACON, CESO IV
REGIONAL DIRECTOR
DATE: _____

CONCURRED

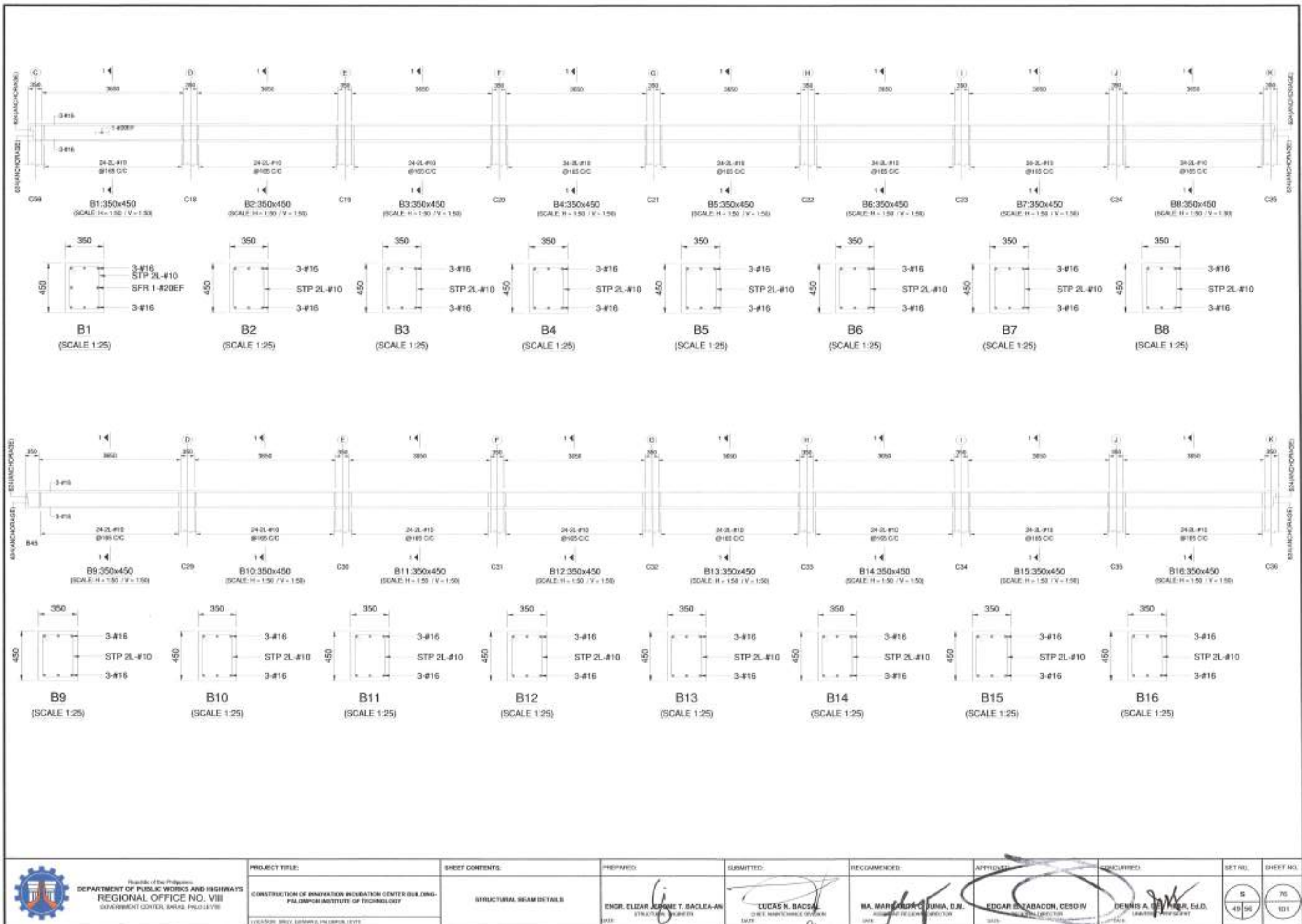
DENNIS A. F. NOLAN, Esq.
LAWYER

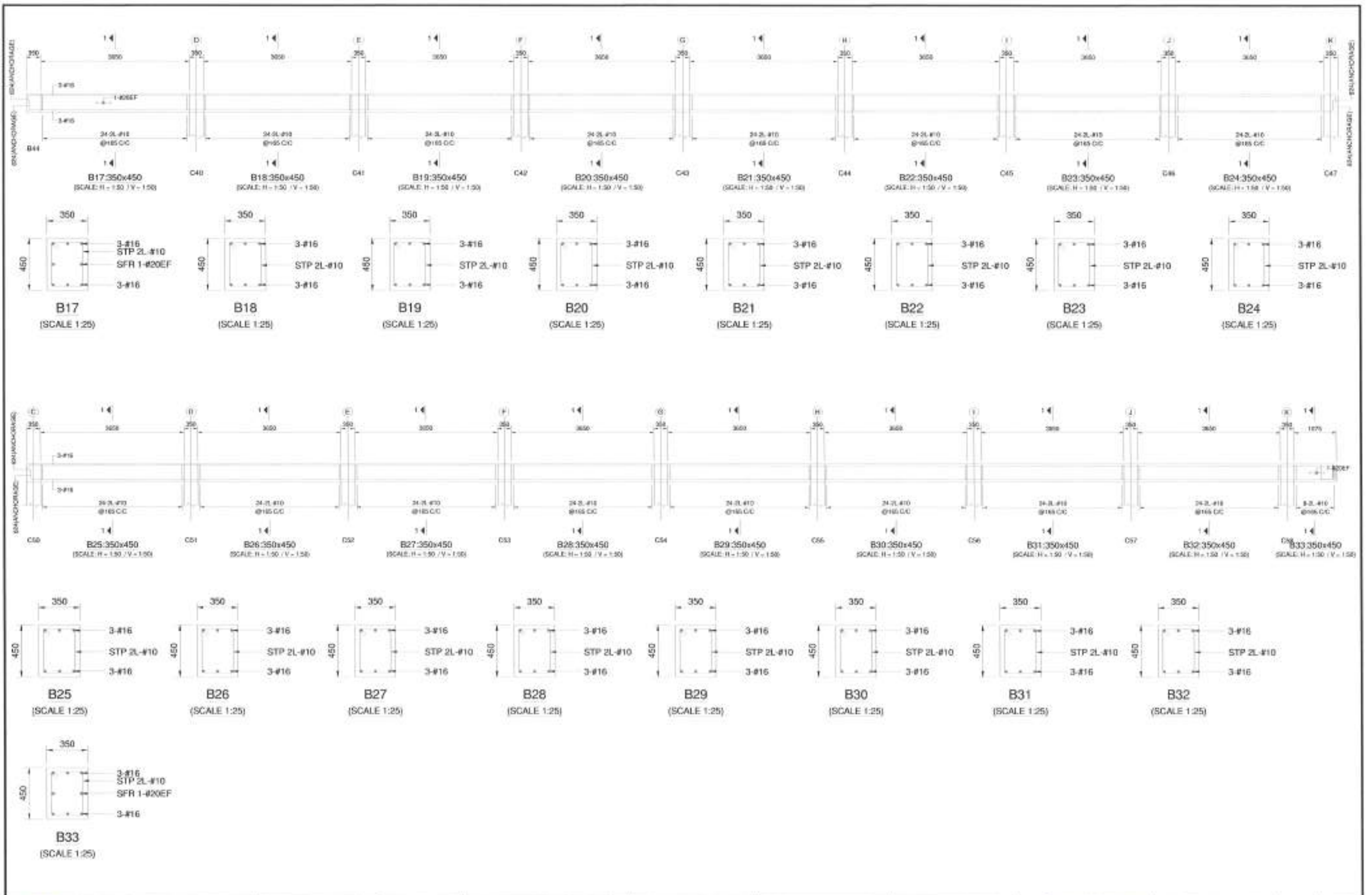
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SHEET NO.
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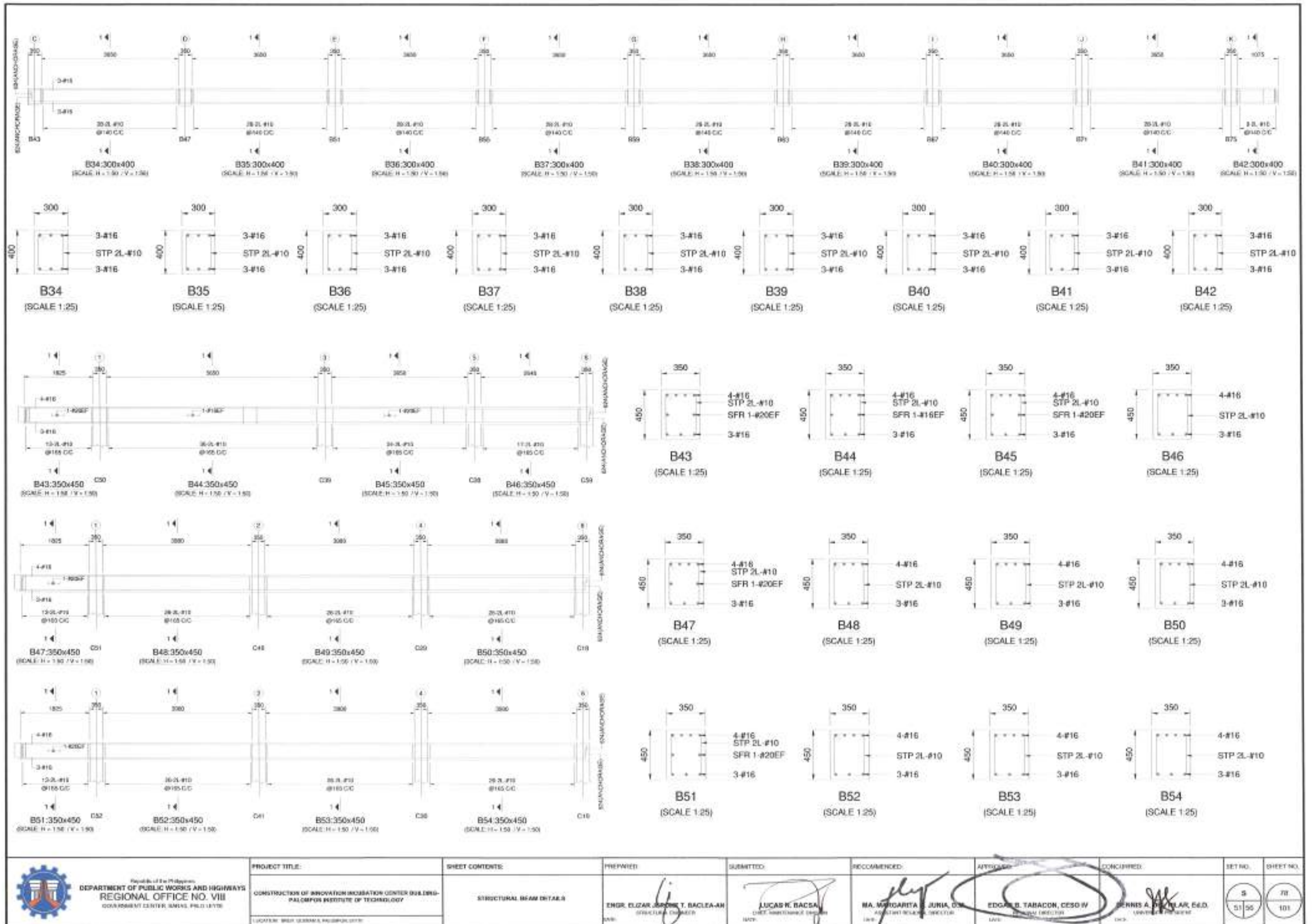
SLAB SCHEDULE (C21 : FY414) (LEVEL : 6.8 M)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT		
S1, S8	125	#10 @ 250 C/C	---	#10 @ 250 C/C	---	#10 @ 250 C/C	#10 @ 250 C/C	#10 @ 245 C/C	#10 @ 250 C/C	#10 @ 300 C/C	---
S2, S3, S4, S5 S6, S7	125	#10 @ 250 C/C	---	#10 @ 250 C/C	---	#10 @ 250 C/C	---	#10 @ 245 C/C	#10 @ 250 C/C	#10 @ 300 C/C	---
S9, S16, S17 S24, S25, S26 S27, S28, S29 S30, S31, S32	125	#10 @ 250 C/C	---	#10 @ 250 C/C	---	#10 @ 250 C/C	#10 @ 250 C/C	#10 @ 250 C/C	#10 @ 250 C/C	#10 @ 300 C/C	---
S10, S11, S12 S13, S14, S15 S18, S19, S20 S21, S22, S23	125	#10 @ 250 C/C	---	#10 @ 250 C/C	---	#10 @ 250 C/C	---	#10 @ 250 C/C	---	#10 @ 300 C/C	---
S33	125	#10 @ 250 C/C	---	#10 @ 250 C/C	---	#10 @ 250 C/C	#10 @ 250 C/C	---	#10 @ 250 C/C	#10 @ 300 C/C	---

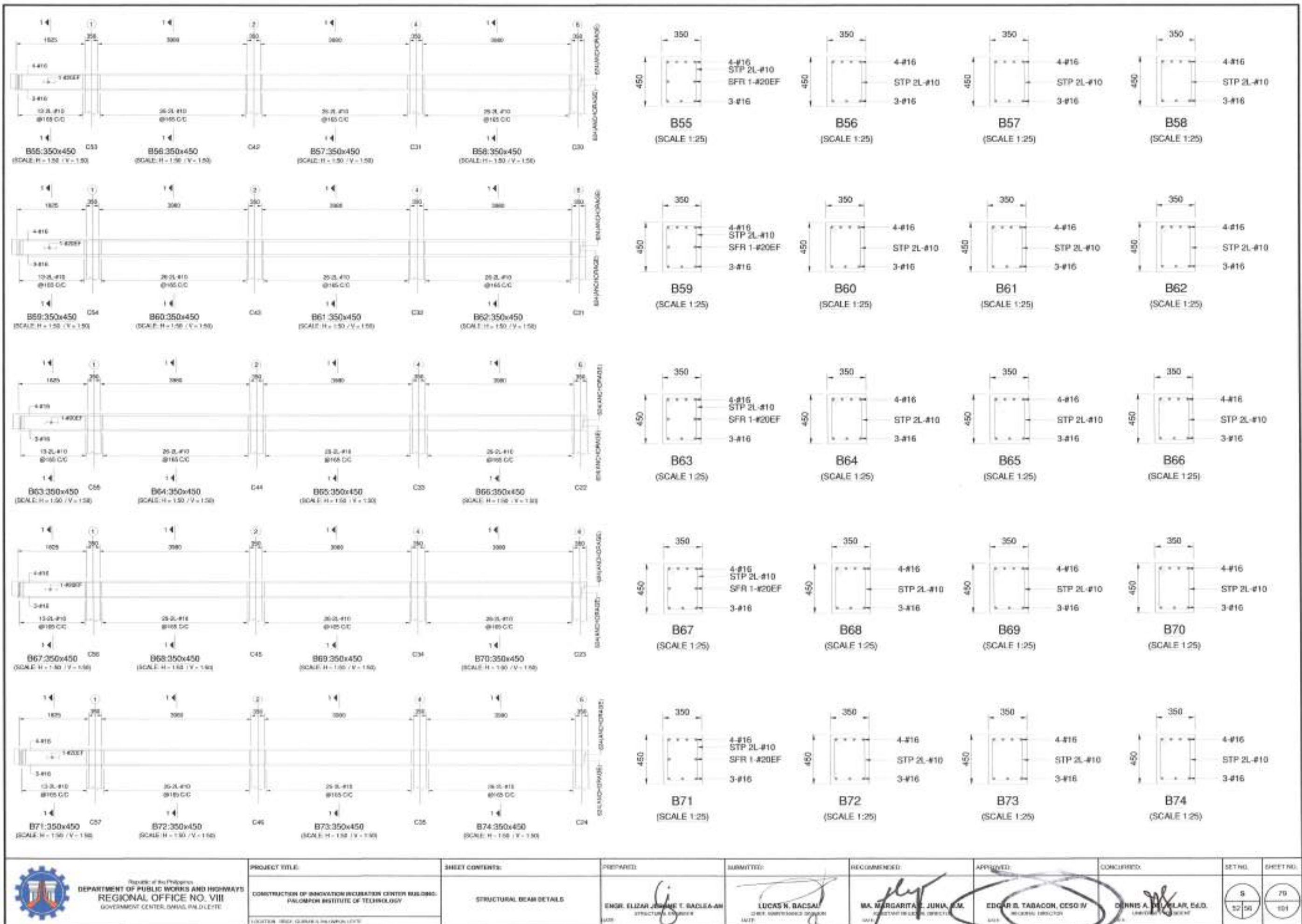


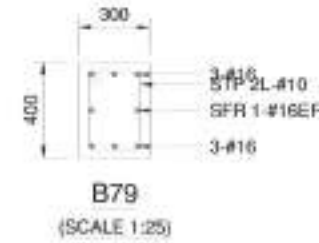
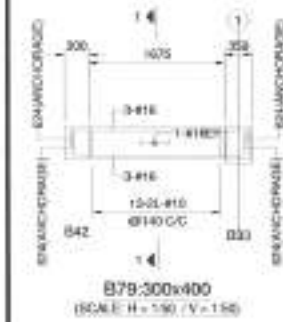
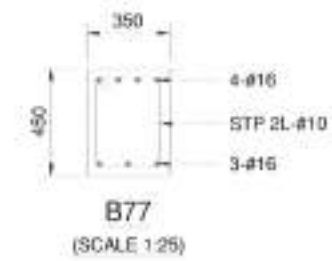
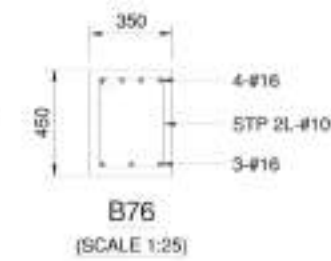
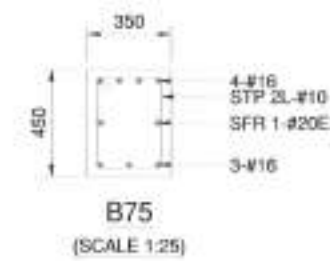
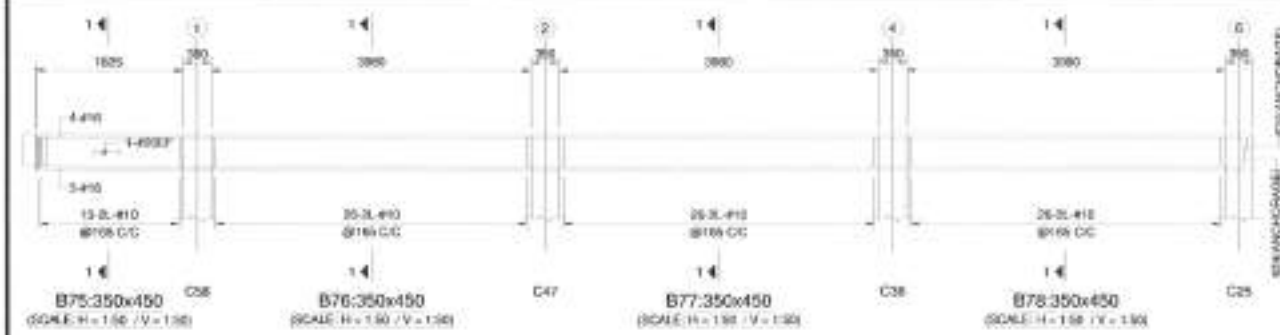


 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII GOVERNMENT CENTER, DAVAO, PALAWAN	PROJECT TITLE: CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING PALAMPON INSTITUTE OF TECHNOLOGY LOCATION: WEST QUARTER, PALAMPON, COTE	SHEET CONTENTS: STRUCTURAL BEAM DETAILS	PREPARED: ENGR. ELIZABETH T. BACLEA-AN STRUCTURAL ENGINEER	SUBMITTED: LUCAS N. BACSON CHIEF, MAINTENANCE DIVISION	RECOMMENDED: MA. MAGNASTA C. JUMA, JR. ASSISTANT REGIONAL DIRECTOR	APPROVED: EDGAR B. TABACON, CESO IV REGIONAL DIRECTOR	CONCURRED: DENNIS A. DELA CRUZ, Engr. UNIVERSITY ASSISTANT	SET NO. 5 50/56	SHEET NO. 77 101
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 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII GOVERNMENT CENTER, SANGAY, PULUT, SORSOGON	PROJECT TITLE: CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING - PALCOPOR INSTITUTE OF TECHNOLOGY LOCATION: SORSOGON, SORSOGON PROVINCE	SHEET CONTENTS: STRUCTURAL BEAM DETAILS	PREPARED: ENGR. ELZAR J. BACSA, T. BACSA-AM STRUCTURAL ENGINEER	SUBMITTED: LUCAS R. BACSA DIRECTOR, SORSOGON OFFICE	RECOMMENDED: MA. MARGARITA L. JUNIA, CES ASSISTANT REGIONAL DIRECTOR	APPROVED: EDGAR B. TABACON, CESO IV REGIONAL DIRECTOR	CONCURRED: JENNIS A. BACSA, E.S.D. UNIVERSITY REPRESENTATIVE	SHEET NO. 51/55
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Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, SARAS, PISO CITY

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING -
PALOMPON INSTITUTE OF TECHNOLOGY
LOCATION: WEST SIDEWAY, PALOMPON, DAVAO

SHEET CONTENTS:
STRUCTURAL BEAM DETAILS

PREPARED:
ENR. EDGAR J. BACALAN
STRUCTURAL ENGINEER
DATE: 10/10/2023

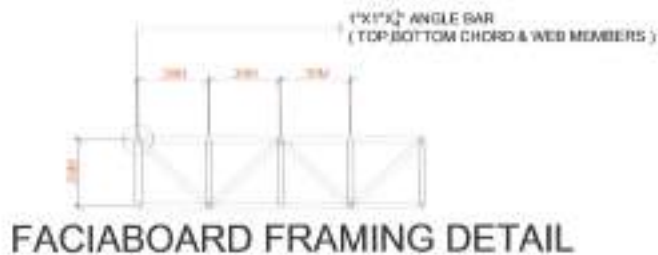
SUBMITTED:
LUCAS N. BACALAN
CHIEF, MAINTENANCE DIVISION
DATE: 10/10/2023

RECOMMENDED:
NAT. MARGARITA C. JUNG, D.M.
ASSISTANT REGIONAL DIRECTOR
DATE: 10/10/2023

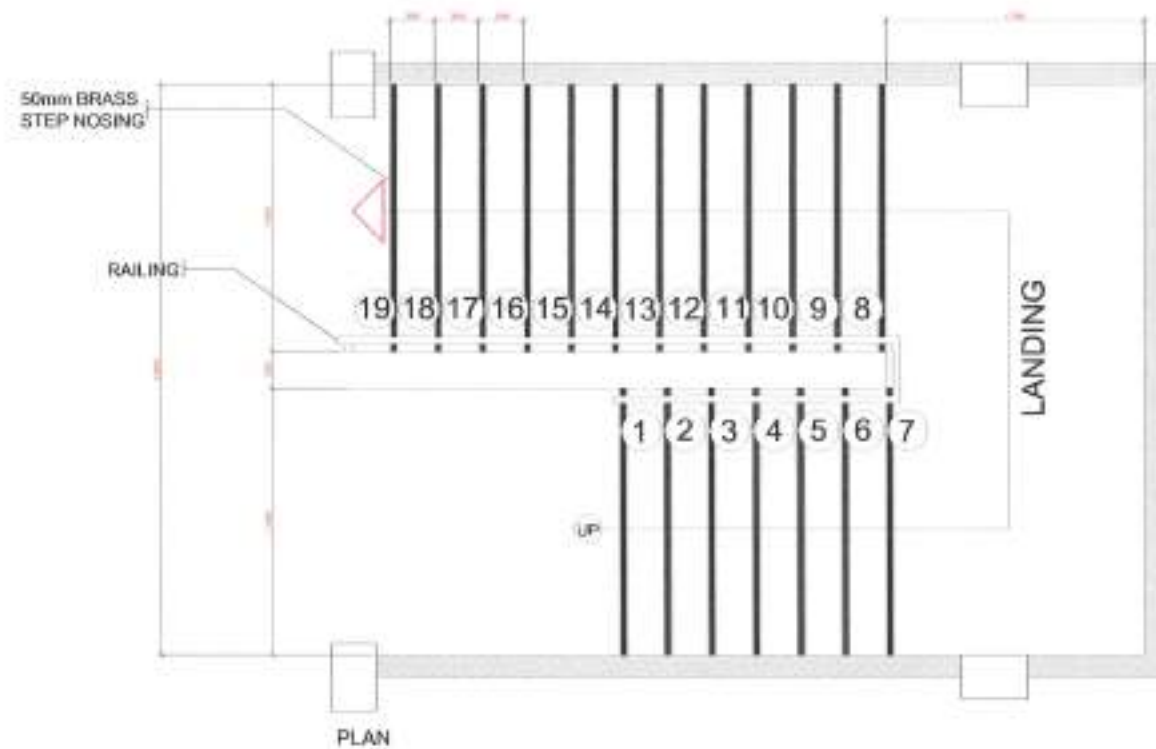
APPROVED:
EDGAR B. TABACON, CESO IV
REGIONAL DIRECTOR
DATE: 10/10/2023

CONCURRED:
DENNIS A. PILAR, Engr.
ASST. REGIONAL DIRECTOR
DATE: 10/10/2023

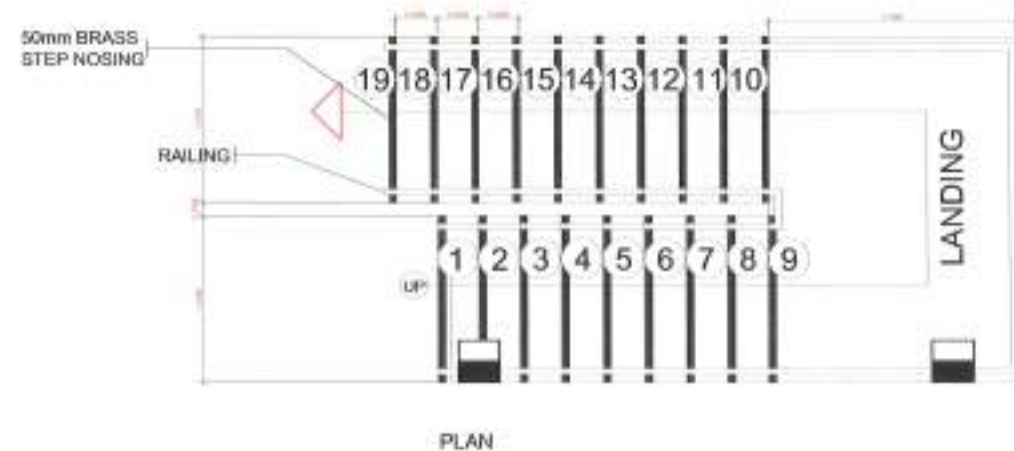
SET NO.	SHEET NO.
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53/56	101



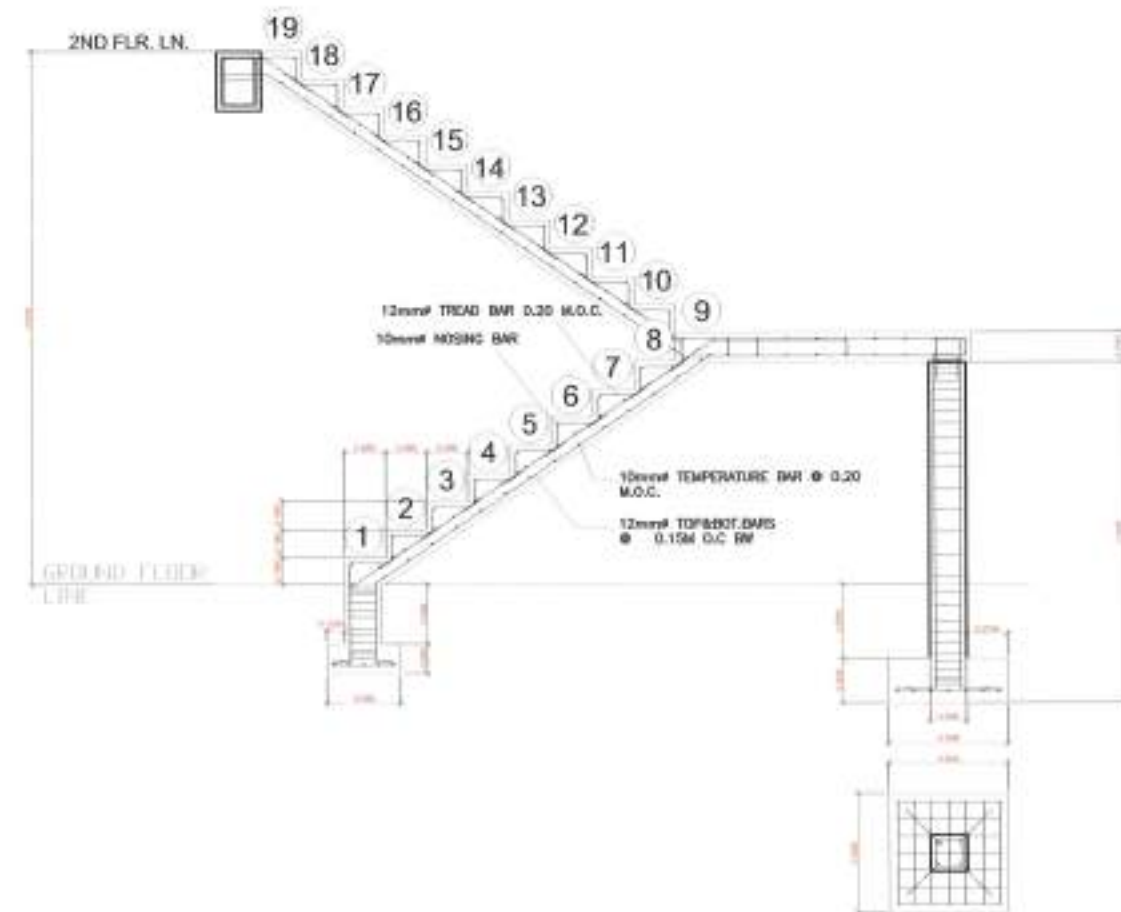
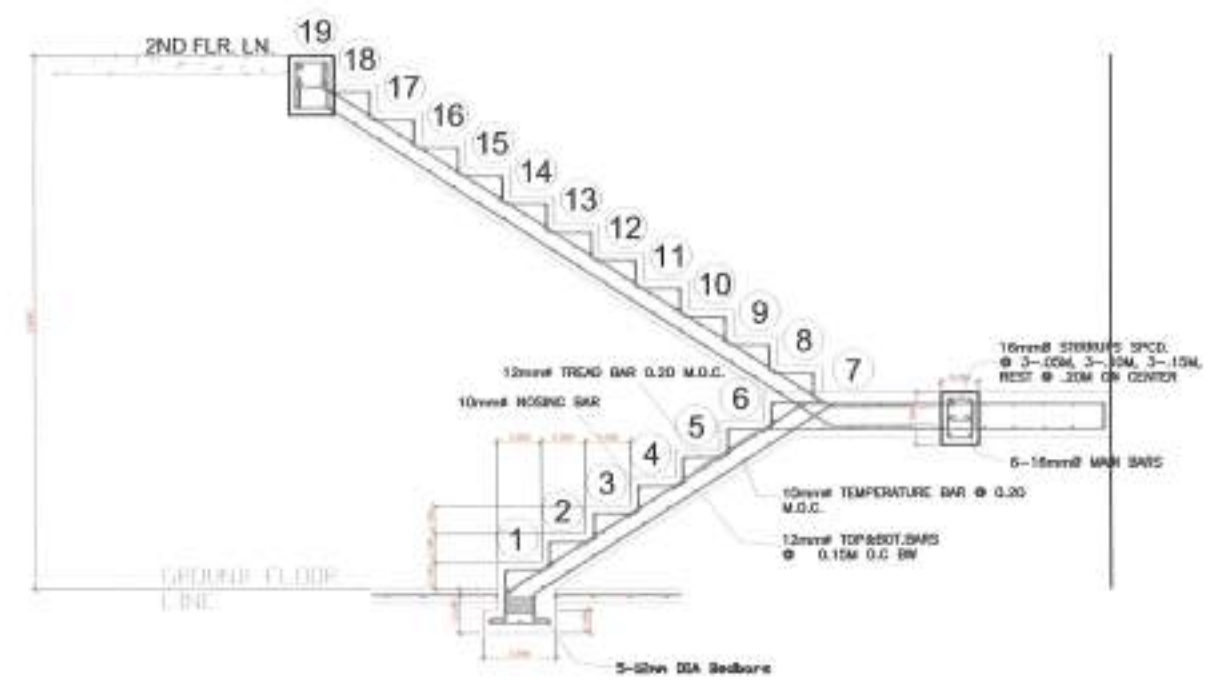
2 HALF TRUSS AND FASCIA BOARD FRAMING DIAGRAM
S-55 SCALE: 1:200 MTS.



1 PLAN OF MAIN STAIRS
S-56 SCALE: 1:200 MTS.



2 PLAN OF SIDE STAIRS
S-56 SCALE: 1:200 MTS.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, DAVAO PALO LITTE

PROJECT TITLE:	SHEET CONTENTS:	PREPARED:	SUBMITTED:	RECOMMENDED:	APPROVED:	CONSIDERED:	SET NO.	SHEET NO.
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING PALOMPON INSTITUTE OF TECHNOLOGY	PLAN OF MAIN STAIRS PLAN OF SIDE STAIRS	ENGR. ELIZABETH T. BACLEA-AN STRUCTURAL ENGINEER	LUCAS R. BACAL REGISTERED ARCHITECT	MR. MARICORTE JUNIL D.M. REGISTERED ELECTRICAL ENGINEER	EDUAR B. TABACON, CESO IV REGIONAL DIRECTOR	DENNIS A. ALAR, Ed.D. UNIVERSITY REPRESENTATIVE	5 56	53 101
LOCATION: BRGY. SANAN, PALOMPON, DAVAO								

SPECIFICATIONS

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 3-PHASE, 3-WIRE, 200 V.A.C, 60 HZ.
- WIRING METHOD SHALL BE AS FOLLOWS:
 - FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT SCH. 40 BRANCH CKT., & AUXILIARY
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 900 VOLTS. SMALLEST RACEWAY SHALL BE 15mm² TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - FIRE ALARM & VIBRATING BELL - 0.30 M BELOW CEILING LINE
 - PUSH BUTTON OUTLET - 1.20 M ABOVE FINISH FLOOR
 - FIRE ALARM STATION OUTLET - 1.50 M ABOVE FINISH FLOOR
 - PANELBOARD - 1.50 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR

GENERAL NOTES

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS/ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANY.
- STRAIGHT VOLTAGE TO THE BUILDING FROM THE POWER SOURCE SHALL BE 3.0M, 3.5M AND 3.7M AND 3.7M AND 3.7M WITH OVERHEAD WIRE SYSTEM.
- SMALLEST BRANCH CIRCUIT WIRE SHALL BE 2.5MM² TYPE FOR LIGHTING SYSTEM AND 3.5MM² FOR POWER IN RACEWAY AND FOR THE ADULTS IS 5.5MM².
- ALL BRANCH CIRCUIT HOMERUN SHALL BE INSTALLED AS INDICATED IN THE PLAN. EXPOSED CIRCUIT RUN SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH BUILDING LINE AND SUPPORTED BY CONDUIT CLAMPS EVERY 0.5 METERS. DANGEROUS CONDUIT RUN SHALL NOT BE ACCEPTED.
- WHENEVER NECESSARY, PULLBOX OR PROTECTIVE AND DISBURSMENT SHALL BE PROVIDED ALTHOUGH NOT INDICATED IN THE PLAN. ALL JUNCTION BOXES SHALL BE PROVIDED WITH METAL FACE COVER.
- ALL LIGHT CONTROLLED SWITCHES SHALL BE DATED (DAMP, DRY ONLY, SWITCHES SHALL BE INSTALLED FOR OPERATION BY THE RIGHT HAND).
- ALL PANEL BOARD SHALL BE PROVIDED WITH MULTIPLE TERMINAL LUGS FOR SOLID GROUNDING, CONNECTED TO BUILDING GROUNDING SYSTEM.
- ALL BRANCH CIRCUIT HOMERUN POWER AND LIGHTING SHALL NOT BE COMBINED IN THE SAME RACEWAY.
- FOR EACH BRANCH CIRCUIT BREAKER IN PANELBOARD, PROVIDE 2.5MM² 2.5 RACEWAY TERMINATING IN CONDUIT DEEP TYPE SQUARE BOX WITH COVER BELOW CEILING SLAB AND SHALL BE PROVIDED WITH PULL WIRE OR AS INDICATED ON THE LOAD SCHEDULE.
- ALL METALLIC CONDUIT, CABLING, BONES AND EQUIPMENT SHALL BE PROPERLY GROUNDING AND BONDING.
- ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED FOR THE LOCATION AND PURPOSE INTENDED.
- JOINTS SHALL BE MADE BY APPROVED METHOD AND SHALL BE PROVIDED WITH PROPER INSULATION.
- ALL RECEPTACLE-OUTLET SHALL BE PROPERLY GROUNDING TO THE WIRE BY MEANS OF LUGS. MOUNTING HEIGHT SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED BY FIELD CONDITIONS:
- SWITCHES - 1.2 METERS ABOVE FLOOR FINISH @ CENTER
 - OUTLETS - 0.3 METERS ABOVE FLOOR FINISH @ CENTER
 - PANELBOARD - 1.5 METERS ABOVE FLOOR FINISH @ CENTER

THE ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND ALL TYPES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES BEFORE FINAL ACCEPTANCE OF WORK.

THE ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND INTERIOR DESIGN PLAN FOR THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL SWITCHING DEVICES, FIXTURES AND THE LUGS.

THE ELECTRICAL CONTRACTOR SHALL VERIFY ON THE SPOT DRAWING ANY CHANGES IN MOUNTING HEIGHT OR LOCATION FOR APPROVAL OF ARCHITECT OR ENGINEER.

IN CASE OF CONFLICT BETWEEN PLANS OF DIFFERENT TRADES, ACTUAL SITE CONDITIONS OR SPECIFICATION IS URGENT, THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ELECTRICAL CONSULTANT.

ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

1 GROUND FLOOR LIGHTING LAYOUT E-1 SCALE: 1:100 MTS.

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII GOVERNMENT CENTER, BAKAL, PULO LEYTE	PROJECT TITLE: CONSTRUCTION OF INNOVATION INNOVATION CENTER BUILDING - PALABON INSTITUTE OF TECHNOLOGY LOCATION: BAY, GUPAN & PALABON, LEYTE	SHEET CONTENTS: GROUND FLOOR LIGHTING LAYOUT	PREPARED: ENGR. DOMINGO L. MALES JR. PROFESSIONAL ELECTRICAL ENGINEER	SUBMITTED: LUCAS M. SACSA CHIEF ENGINEER	RECOMMENDED: MA. MARGARET C. JIMENEZ REGISTERED ELECTRICAL ENGINEER	APPROVED: EDGAR B. TABACON, CESO IV REGIONAL DIRECTOR	CONCURRED: DENNIS A. DELA CRUZ, Ed.D. UNIVERSITY REPRESENTATIVE	SHEET NO. 84 101
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SPECIFICATIONS

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATION OF THE LOCAL ENFORCING AGENCY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 3-PHASE, 3-WIRE, 230-V AC, 60-HZ.
3. WIRING METHOD SHALL BE AS FOLLOWS:
 - a. FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
 - b. LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT SCH. 40 BRANCH CKT., & AUXILIARY
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3 AWG AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mm ID TRADE NOMINAL SIZE.
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
 - a. LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - b. FIRE ALARM & VIBRATING BELL - 0.30 M BELOW CEILING LINE
 - c. PUSH BUTTON OUTLET - 1.20 M ABOVE FINISH FLOOR
 - d. FIRE ALARM STATION OUTLET - 1.50 M ABOVE FINISH FLOOR
 - e. PANELBOARD - 1.50 M ABOVE FINISH FLOOR
 - f. CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR

GENERAL NOTES

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS, ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANY.
- SERVICE VOLTAGE TO THE BUILDING FROM THE POWER SOURCE SHALL BE 230 V, 1Ø AND 3Ø, 3 AND 2 WIRE WITH GROUND, 60 HZ SYSTEM.
- SMALLEST BRANCH CIRCUIT WIRE SHALL BE 3 ØMM² THW FOR LIGHTING SYSTEM AND 3 ØMM² FOR POWER IN RACEWAY AND FOR THE 400V IS 5 ØMM².
- ALL BRANCH CIRCUIT HOMERUN SHALL BE INSTALLED AS INDICATED IN THE PLAN. EXPOSED CIRCUIT RUN SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH BUILDING LINE AND SUPPORTED BY CONDUIT CLAMPS OVER 1.5 METERS. DIAGONAL CONDUIT RUN SHALL NOT BE ACCEPTED.
- WHENEVER NECESSARY, PULL BOX OR PROPER TIE AND DISTRIBUTION SHALL BE PROVIDED ALTHOUGH NOT INDICATED IN THE PLANS. ALL JUNCTION BOXES SHALL BE PROVIDED WITH METAL FREE COVER.
- ALL LIGHT CONTROLLED SWITCHES SHALL BE RATED 15 AMP, 120V ONLY. SWITCHES SHALL BE INSTALLED FOR OPERATION BY THE RIGHT HAND.
- ALL PANEL BOARDS SHALL BE PROVIDED WITH MULTIPLE TERMINAL LUGS FOR SOLID GROUNDING, CONNECTED TO BUILDING GROUNDING SYSTEM.
- ALL BRANCH CIRCUIT HOMERUN POWER AND LIGHTING SHALL NOT BE COMBINED IN THE SAME RACEWAY.
- FOR EACH SINGLE CIRCUIT BREAKER IN PANELBOARD, PROVIDE 3 ØMM² X 2 RACEWAY TERMINATING IN 3 ØMM² DEEP TYPE SQUARE BOX WITH COVER BELOW CEILING SLAB AND SHALL BE PROVIDED WITH PULL MARKS OR AS INDICATED ON THE LUMP SUM SCHEDULE.
- ALL METALLIC CONDUIT, CABINET, BOXES AND EQUIPMENT SHALL BE PROPERLY GROUNDING AND BONDING.
- ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED FOR THE LOCATION AND PURPOSE INTENDED.
- JOINTS SHALL BE MADE BY APPROVED METHOD AND SHALL BE PROVIDED WITH PROPER INSULATION.
- ALL RECEPTACLES OUTLET SHALL BE PROPERLY GROUNDING TO THE GROUND BY MEANS OF LUGS. MOUNTING HEIGHT SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED BY THIS CONDITIONS:
- a. SWITCHES - 1.2 METER ABOVE FLOOR FINISH @ CENTER
 - b. OUTLETS - 0.3 METER ABOVE FLOOR FINISH @ CENTER
 - c. PANELBOARD - 1.5 METER ABOVE FLOOR FINISH @ CENTER

THE ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND ALL THIS REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER FINAL CERTIFICATE OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES BEFORE FINAL ACCEPTANCE OF WORK.

THE ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND INTERIOR DESIGN PLAN FOR THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL SWITCHING DEVICES, OUTLETS AND THE LUGS.

THE ELECTRICAL CONTRACTOR SHALL VERIFY ON THE SPOT DRAWING ANY CHANGES IN MOUNTING HEIGHT OR LOCATION FOR APPROVAL OF ARCHITECT OR ENGINEER.

IN CASE OF CONFLICT BETWEEN PLANS OF DIFFERENT TRADES, ACTUAL SITE CONDITIONS OR SPECIFICATION IS VARYING, THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ELECTRICAL CONSULTANT.

ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED LICENSED ELECTRICAL ENGINEER.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, BANGAL, MALABON CITY

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING -
PALAMPON INSTITUTE OF TECHNOLOGY
LOCATION: BRGY. NAGPARA, PALAMPON, LITTE

SHEET CONTENTS:
SECOND FLOOR LIGHTING LAYOUT

PREPARED:
ENGR. DOMINGO L. MALCES JR.
PROFESSIONAL ELECTRICAL ENGINEER
DATE:

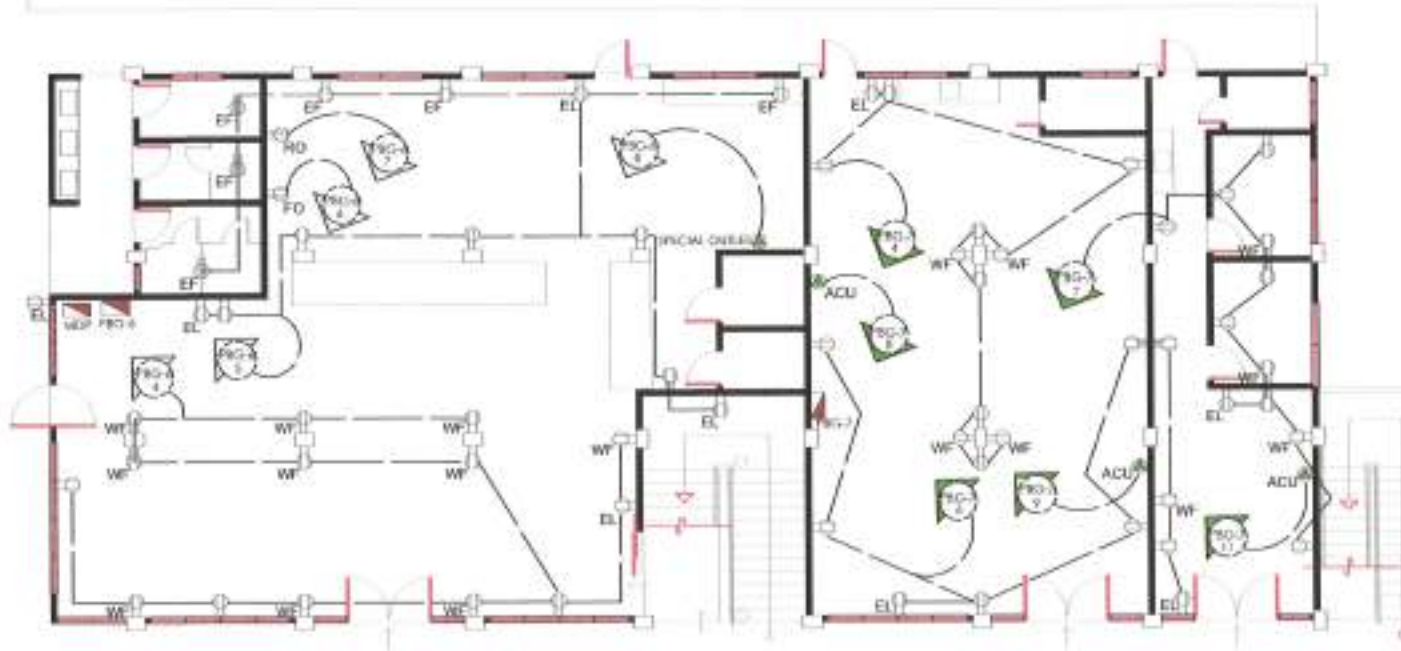
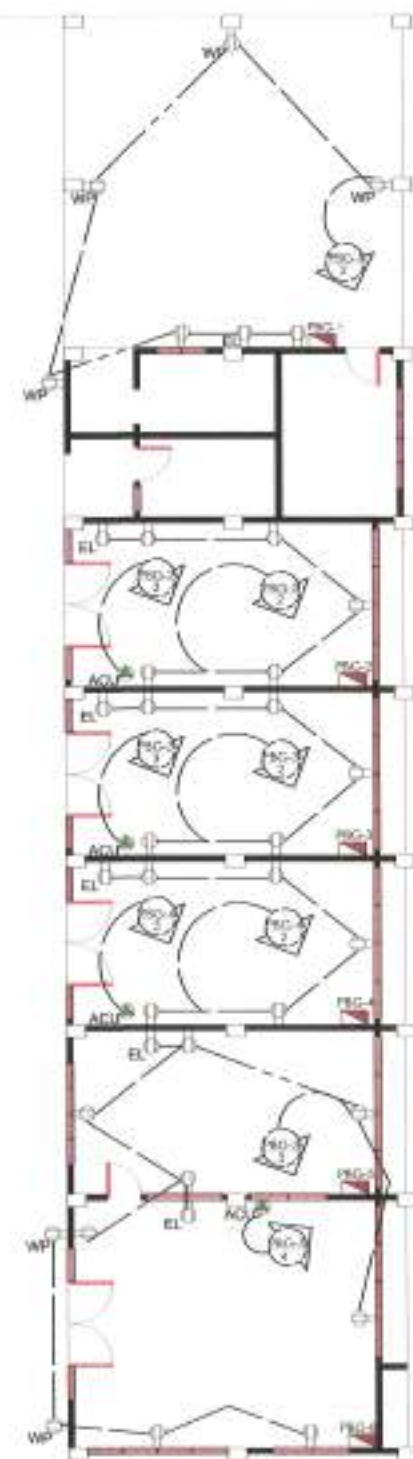
SUBMITTED:
LUCAS N. BACAL
CHIEF, SAFETY & SECURITY DIVISION
DATE:

RECOMMENDED:
MA. MARGARITA C. JIMIA, D.M.
ASSISTANT REGIONAL DIRECTOR
DATE:

APPROVED:
EDGAR B. TABACON, CESO IV
REGIONAL DIRECTOR
DATE:

CONCURRED:
GENNIS A. VILAR, Ed.D.
UNIVERSITY REPRESENTATIVE
DATE:

SPT NO. 85
SHEET NO. 101



SPECIFICATIONS

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATION OF THE LOCAL EMPLOYING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 3-PHASE, 3-WIRE, 230 V AC, 60 Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS:
 - a. FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
 - b. LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT 3/4" I.D. BRANCH OUT. & AERIAL WRY
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mm² TRADE NOMINAL SIZE.
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 18 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
 - a. LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - b. FIRE ALARM & VIBRATING BELL - 0.30 M BELOW CEILING LINE
 - c. PUSH BUTTON OUTLET - 1.20 M ABOVE FINISH FLOOR
 - d. FIRE ALARM STATION OUTLET - 1.50 M ABOVE FINISH FLOOR
 - e. PANELBOARD - 1.50 M ABOVE FINISH FLOOR
 - f. CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.

GENERAL NOTES

ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS/ORDINANCES OF THE LOCAL EMPLOYING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANY.

SERVICE VOLTAGE TO THE BUILDING FROM THE POWER SOURCE SHALL BE 230 V, 3-PHASE AND 3-WIRE WITH GROUND, 60 HZ SYSTEM.

SMALLEST BRANCH CIRCUIT WIRE SHALL BE 2.0mm² THW FOR LIGHTING SYSTEM AND 3.5mm² FOR POWER IN RACEWAY AND FOR THE AIRCUT IS 5.0mm².

ALL BRANCH CIRCUIT HOMERUN SHALL BE INSTALLED AS INDICATED IN THE PLAN. EXPOSED CIRCUIT RUN SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH BUILDING LINE AND SUPPORTED BY CONDUIT CLAMPS EVERY 1.5 METERS. DIAGONAL CONDUIT RUN SHALL NOT BE ACCEPTED.

WHenever necessary, PULLBOX OF PROPER SIZE AND OVERVIEW SHALL BE PROVIDED ALTHOUGH NOT INDICATED IN THE PLANS. ALL JUNCTION BOXES SHALL BE PROVIDED WITH METAL FACE COVER.

ALL LIGHT CONTROLLED SWITCHES SHALL BE RATED 15 AMP, 250V ONLY. SWITCHES SHALL BE INSTALLED FOR OPERATION BY THE RIGHT HAND.

ALL PANELBOARDS SHALL BE PROVIDED WITH MULTIPLE TERMINAL BUS FOR SOLID GROUNDING, CONNECTED TO EXISTING GROUNDING SYSTEM.

ALL BRANCH CIRCUIT HOMERUN IN POWER AND LIGHTING SHALL NOT BE COMBINED IN THE SAME RACEWAY.

FOR EACH SPARE CIRCUIT BREAKER IN PANELBOARD, PROVIDE 2.0mm² X 2 RACEWAY TERMINATING IN 100MM DEEP THE SQUARE BOX WITH COVER BELOW CEILING SLAB AND SHALL BE PROVIDED WITH TWO WIRES OR AS INDICATED ON THE LOAD SCHEDULE.

ALL METALLIC CONDUIT, CABLE, BUSES AND EQUIPMENT SHALL BE PROPERLY GROUNDING AND BOPPED.

ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED FOR THE LOCATION AND PURPOSE INTENDED.

JOINTS SHALL BE MADE BY APPROVED METHOD AND SHALL BE PROVIDED WITH PROPER INSULATION.

ALL RECEPTABLE OUTLET SHALL BE PROPERLY GROUNDING TO THE BOX BY MEANS OF LIAS. MOUNTING HEIGHT SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED BY FIELD CONDITIONS:

- A. SWITCHES - 1.20 METER ABOVE FLOOR FINISH @ CENTER
- B. OUTLETS - 0.30 METER ABOVE FLOOR FINISH @ CENTER
- C. PANELBOARD - 1.50 METER ABOVE FLOOR FINISH @ CENTER

THE ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND ALL TESTS REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES BEFORE FINAL ACCEPTANCE OF WORK.

THE ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND INTERIOR DESIGN PLANS FOR THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL SWITCHES, OUTLETS, FURNITURES AND THE LBS.

THE ELECTRICAL CONTRACTOR SHALL VERIFY ON THE SPOT DRAWINGS ANY DIMENSION MOUNTING HEIGHT OR LOCATION FOR APPROVAL OF ARCHITECT OR ENGINEER.

IN CASE OF CONFLICT BETWEEN PLANS OF DIFFERENT TRADES, ACTUAL SIZE, CONDITIONS OR SPECIFICATIONS CHANGES, THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ELECTRICAL CONSULTANT.

ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

1 GROUND FLOOR CONVENIENCE LAYOUT
E - 3 SCALE: 1:100 MTS.

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII GOVERNMENT CENTER, DAVAO, PALO DUYE	PROJECT TITLE:	SHEET CONTENTS:	PREPARED:	SUBMITTED:	RECOMMENDED:	APPROVED:	CONCURRED:	SHEET NO.	SHEET NO.
	CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING - PALAMPON INSTITUTE OF TECHNOLOGY	GROUND FLOOR CONVENIENCE LAYOUT	 ENGR. DOMINGO L. BALICSHUR PROFESSIONAL ELECTRICAL ENGINEER DATE:	 LUCAS N. BACSA CHIEF, MAINTENANCE DIVISION DATE:	 MA. MAGSARTHA C. SUMA, D.M. ASSISTANT REGIONAL DIRECTOR DATE:	 EDGAR B. TABACON, CESO IV REGIONAL DIRECTOR DATE:	 DENNIS A. ALAR, SLD DIVISION CHIEF DATE:	E 30	101

ELECTRICAL LOADS SCHEDULE

LOAD SCHEDULE

PANEL BOARD: PBG-1
@ 20 mmØ PVC
ENCLOSURE : NEMA 1
MOUNTING : FLUSH

FEEDER SIZE : 2 - 5.5 mm² THHN + 1 - 2.0 mm² TW (G)

MAIN CIRCUIT BREAKER : 30AT / 50 AF, 2 POLE, 230 VAC.

S	Load Description	SWITCH			VA	VOLT	AMP	CB RATING		SIZE		
		S1	S2	S3				AT	POLE	mm ² THHN	mm ² (G) TW	mmØ (PVC)
1	10 - LIGHTING, 15 W	1	2		150	230	0.7	15	2	2.0		15
2	10 - LIGHTING, 15 W		3		150	230	0.7	15	2	2.0		15
3	7 - CONV. OUTLET				1260	230	5.5	20	2	3.5	2.0	15
4	SPARE											
	TOTAL >>				1560			6.9				

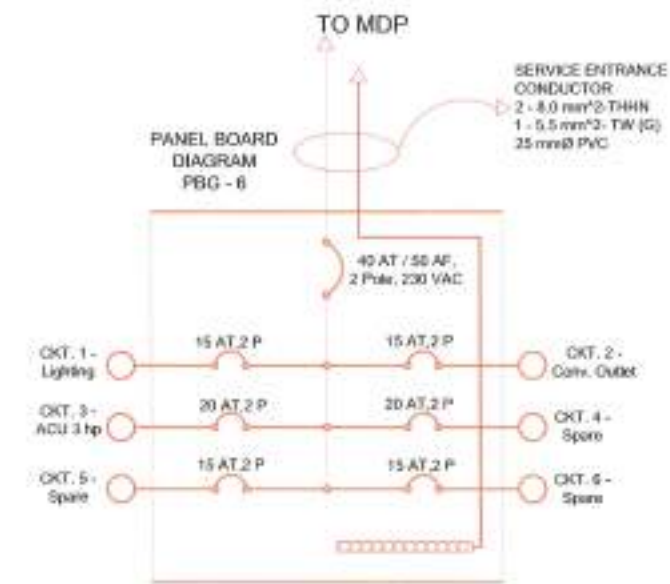
COMPUTATIONS
TOTAL CONNECTED LOAD: = 6.9

PVC

Assuming 85% Demand Factor :
Demand Load, I = 6.9 x 0.85 = 5.87 A

FEEDER SIZE :
I = 12.77 A + 25% = 15.96 A
Use: 2 - 5.5 mm² THHN + 1 - 2.0 mm² TW (G) @ 20 mmØ

MAIN CIRCUIT BREAKER
Use: 30 AT/ 50 AF, 2 Pole, 230 VAC



PANEL BOARD DIAGRAM

ELECTRICAL LOADS SCHEDULE

LOAD SCHEDULE

PANEL BOARD: PBG-2
ENCLOSURE : NEMA 1
MOUNTING : FLUSH

FEEDER SIZE: 2 - 8.0 mm² THHN + 1 - 5.5 mm² TW (G) @ 25 mmØ PVC

MAIN CIRCUIT BREAKER : 40AT / 50AF, 2 POLE, 230 VAC.

CKT NO.	Load Description	SWITCH			VA	VOLT	AMP	CB RATING		SIZE		
		S1	S2	S3				AT	POLE	mm ² THHN	mm ² (G) TW	mmØ (PVC)
1	2 - LIGHTING, 15 W		1		30	230	0.1	15	2	2.0		15
2	6 - CONV. OUTLET				1080	230	4.7	15	2	3.5	2.0	15
3	ACU 2 HP				1492	230	6.5	20	2	3.5	2.0	15
4	SPARE											
	TOTAL >>				2602			11.3				

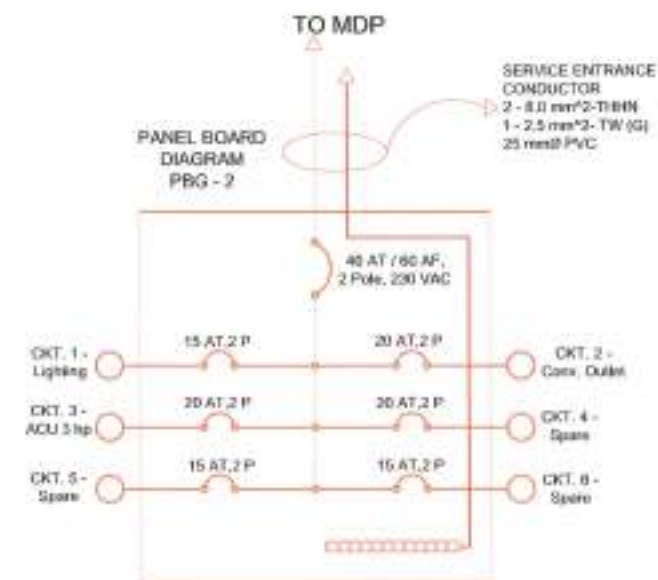
COMPUTATIONS
TOTAL CONNECTED LOAD: = 11.3

PVC

Assuming 85% Demand Factor :
Demand Load, I = 11.3 x 0.85 = 9.6 A

FEEDER SIZE
I = 9.6 A + (6.5A x 25%) = 11.225 A
Use: 2 - 8.0 mm² THHN + 1 - 5.5 mm² TW (G) @ 25 mmØ

MAIN CIRCUIT BREAKER
Use: 40 AT/ 50 AF, 2 Pole, 230 VAC



PANEL BOARD DIAGRAM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, DAVAO, PALILAYTE

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING,
PALICORP INSTITUTE OF TECHNOLOGY
LOCATION: WEST GUERRA, PALICORP, LEYTE

SHEET CONTENTS:
ELECTRICAL LOADS SCHEDULE
PANEL BOARD DIAGRAM

PREPARED:
ENGR. DOMINGO L. MALICSI JR.
PROFESSIONAL ELECTRICAL ENGINEER
DATE: 10/10/2023

SUBMITTED:
LUCAS N. BACSAI
CHIEF, ELECTRICAL DIVISION
DATE: 10/10/2023

RECOMMENDED:
MA. MARGARITA B. JUAN, D.A.
ASSISTANT REGIONAL DIRECTOR
DATE: 10/10/2023

APPROVED:
EDGARDO TABACON, CESO IV
REGIONAL DIRECTOR
DATE: 10/10/2023

CONCURRED:
DENNIS A. BACALAR, E.D.
LIBRARY & RECORDS
DATE: 10/10/2023

SET NO. 5
SHEET NO. 101

ELECTRICAL LOADS SCHEDULE

LOAD SCHEDULE

PANEL BOARD: PBG-3
ENCLOSURE : NEMA 1
MOUNTING : FLUSH

FEEDER SIZE: 2 - 8.0 mm² THHN + 1 - 5.5 mm² TW (G) @ 25 mmØ PVC
MAIN CIRCUIT BREAKER : 40AT / 50AF, 2 POLE, 230 VAC.

CKT NO.	Load Description	SWITCH			VA	VOLT	AMP	CB RATING		SIZE		
		S1	S2	S3				AT	POLE	mm ² THHN	mm ² (G) TW	mmØ (PVC)
1	2 - LIGHTING, 15 W		1		30	230	0.1	15	2	2.0,		15
2	6 - CONV. OUTLET				1080	230	4.7	15	2	3.5	2.0	15
3	ACU 2 HP				1492	230	6.5	20	2	3.5	2.0	15
4	SPARE											
	TOTAL >>				2602		11.3	NOTE: No grounding wires for Lighting & C.O, unless PIT requires it				

COMPUTATIONS

TOTAL CONNECTED LOAD: = 11.3

PVC

Assuming 85% Demand Factor :
Demand Load, I = 11.3 x 0.85 = 9.6 A

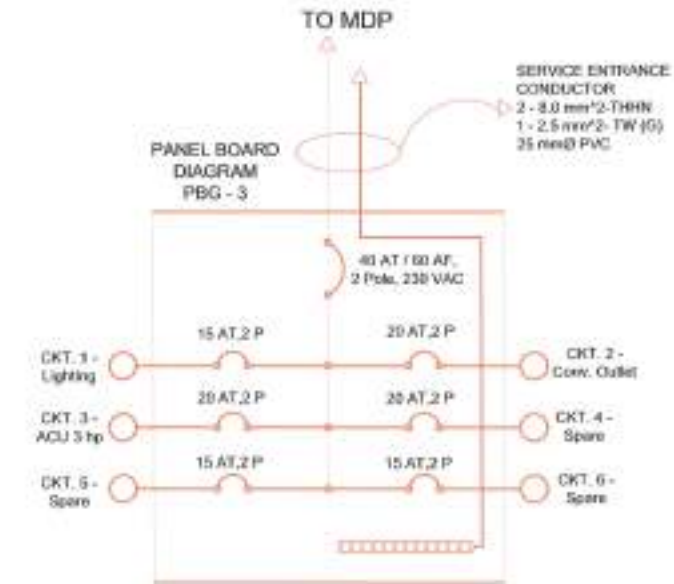
FEEDER SIZE

I = 9.6 A + (6.5A x 25%) = 11.225 A

Use: 2 - 8.0 mm² THHN + 1 - 5.5 mm² TW (G) @ 25 mmØ

MAIN CIRCUIT BREAKER

Use: 40 AT / 50 AF, 2 Pole, 230 VAC



PANEL BOARD DIAGRAM

ELECTRICAL LOADS SCHEDULE

LOAD SCHEDULE

PANEL BOARD: PBG-4
ENCLOSURE : NEMA 1
MOUNTING : FLUSH

FEEDER SIZE: 2 - 8.0 mm² THHN + 1 - 5.5 mm² TW (G) @ 25 mmØ PVC
MAIN CIRCUIT BREAKER : 40AT / 50AF, 2 POLE, 230 VAC.

CKT NO.	Load Description	SWITCH			VA	VOLT	AMP	CB RATING		SIZE		
		S1	S2	S3				AT	POLE	mm ² THHN	mm ² (G) TW	mmØ (PVC)
1	2 - LIGHTING, 15 W		1		30	230	0.1	15	2	2.0,		15
2	6 - CONV. OUTLET				1080	230	4.7	15	2	3.5	2.0	15
3	ACU 2 HP				1492	230	6.5	20	2	3.5	2.0	15
4	SPARE											
	TOTAL >>				2602		11.3	NOTE: No grounding wires for Lighting & C.O, unless PIT requires it				

COMPUTATIONS

TOTAL CONNECTED LOAD: = 11.3

PVC

Assuming 85% Demand Factor :
Demand Load, I = 11.3 x 0.85 = 9.6 A

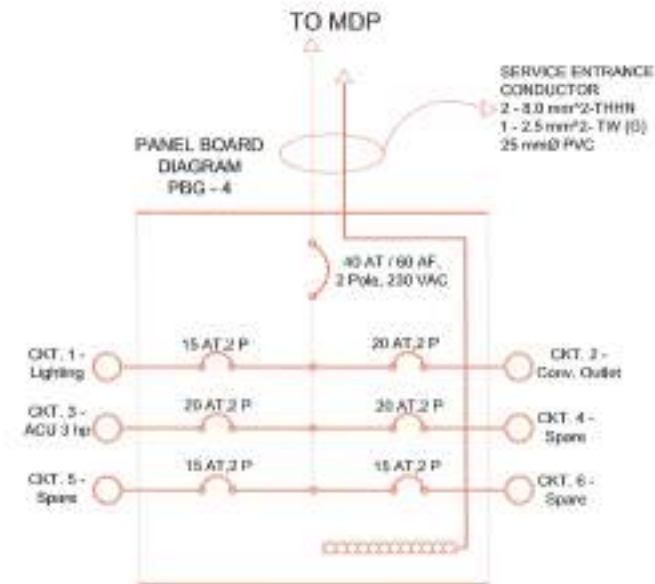
FEEDER SIZE

I = 9.6 A + (6.5A x 25%) = 11.225 A

Use: 2 - 8.0 mm² THHN + 1 - 5.5 mm² TW (G) @ 25 mmØ

MAIN CIRCUIT BREAKER

Use: 40 AT / 50 AF, 2 Pole, 230 VAC



PANEL BOARD DIAGRAM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, DAVAO, PALAUETTE

PROJECT TITLE:

CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING
PALANPOON INSTITUTE OF TECHNOLOGY

LOCATION: DRD, DAVAO, PALAUETTE

SHEET CONTENTS:

ELECTRICAL LOADS SCHEDULE
PANEL BOARD DIAGRAM

PREPARED:

ENGR. DOMINIC L. MALIBI JR.
PROFESSIONAL ELECTRICAL ENGINEER
DATE: _____

SUBMITTED:

LUCAS H. BACAL
CHIEF ELECTRICAL ENGINEER
DATE: _____

RECOMMENDED:

MA. MARGARETA C. ANIA, CIV.
ASSISTANT ELECTRICAL ENGINEER
DATE: _____

APPROVED:

EDGAR B. TABACON, CESO IV
REGIONAL DIRECTOR
DATE: _____

CONCURRED:

JOHN A. PILLAR, Ed.D.
UNIVERSITY CHIEF
DATE: _____

SET NO.

6 10

SHEET NO.

85 101

ELECTRICAL LOADS SCHEDULE

LOAD SCHEDULE

PANEL BOARD: PBG -5
ENCLOSURE : NEMA 1
MOUNTING : FLUSH

FEEDER SIZE: 2 - 8.0 mm² THHN + 1 - 5.5 mm² TW (G) @ 25 mm² PVC
MAIN CIRCUIT BREAKER : 50AT / 60 AF, 2 POLE, 230 VAC

CKT NO.	Load Description	SWITCH			VA	VOLT	AMP	CB RATING		SIZE		
		S1	S2	S3				AT	POLE	mm ² THHN	mm ² (G) TW	mm ² (PVC)
1	5-15 W / 4-15 W / 2-30 W, LIGHTING	1	1	1	225	230	1.0	15	2	2.0		15
2	12 - C. O. 180 W				2160	230	9.4	20	2	3.5	2.0	15
3	ACU 3 HP				2238	230	9.7	30	2	3.5	2.0	15
4	SPARE											
	TOTAL >>				4623		24.9	NOTE: No grounding wires for Lighting & C.O, unless PIT requires it				

COMPUTATIONS

TOTAL CONNECTED LOAD: = 20.1 A

PVC

Assuming 85% Demand Factor :
Demand Load, $I_d = 20.1 \times 0.85 = 17.085 \text{ A}$

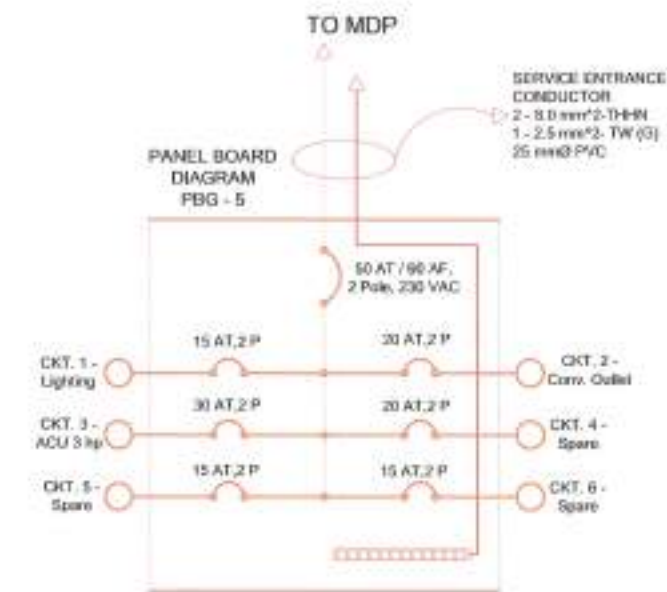
FEEDER SIZE

$I = 15.085 \text{ A} + (9.7 \text{ A} \times 25\%) = 17.51 \text{ A}$

Use: 2 - 8.0 mm² THHN + 1 - 5.5 mm² TW (G) @ 25 mm²

MAIN CIRCUIT BREAKER

Use: 50 AT/ 60 AF, 2 Pole, 230 VAC



PANEL BOARD DIAGRAM

ELECTRICAL LOADS SCHEDULE

LOAD SCHEDULE

PANEL BOARD: PBG - 6
ENCLOSURE : NEMA 1
MOUNTING : SURFACE

FEEDER SIZE: 2 - 14 mm² THHN + 1 - 5.5 mm² TW (G) @ 25mm² PVC
MAIN CIRCUIT BREAKER : 50AT / 60AF, 3 POLE, 230 VAC.

CKT NO.	Load Description	SWITCH			VA	VOLT	AMP	CB RATING		SIZE		
		S1	S2	S3				AT	POLE	mm ² THHN	mm ² (G) TW	mm ² (PVC)
1	Refrigerator Outlet 1kW				1000	230	4.3	20	2	3.5	2.0	15
2	Freezer Outlet 3kW				3000	230	13.0	20	2	3.5	2.0	15
3	Special Outlet 1492 W				1492	230	6.5	20	2	3.5	2.0	15
4	8 - 15W, Lighting	1			120	230	0.5	15	2	2.0		15
5	12 - 15 W, Lighting	6		6	180	230	0.9	15	2	2.0		15
6	3 - 15 W / 60 - 30 W, Lighting	1	1	1	165	230	0.7	15	2	2.0		15
7	14 - Conv. Outlet				2520	230	11.0	20	2	3.5	2.0	15
8	11 - Conv. Outlet				1980	230	8.6	20	2	3.5	2.0	15
9	SPARE											
10	SPARE											
	TOTAL >>				10457		45.5	NOTE: No grounding wires for Lighting & C.O, unless PIT requires it				

COMPUTATIONS

TOTAL CONNECTED LOAD: $I = 45.5 \text{ A}$

PVC

Assuming 85% Demand Factor :
Demand Load, $I_d = 45.5 \text{ A} \times 0.85 = 38.7 \text{ A}$

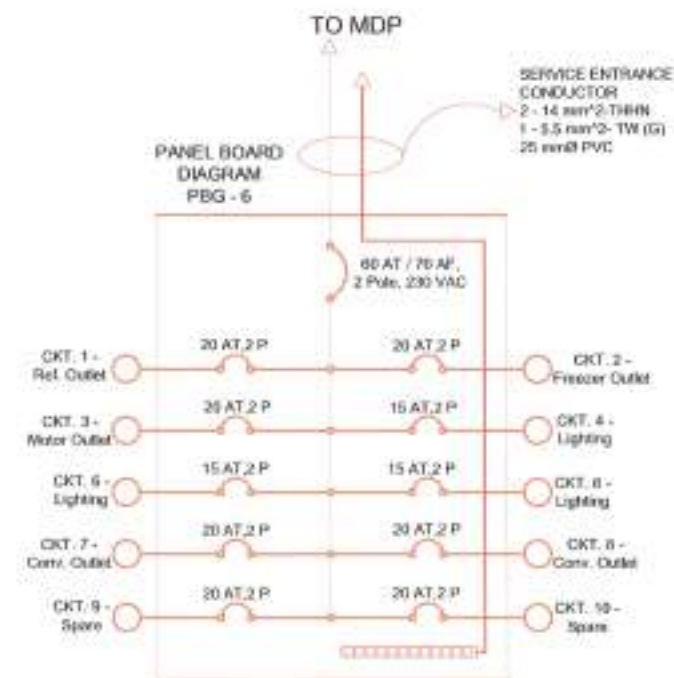
FEEDER SIZE

$I = 38.7 \text{ A} + (13.0 \text{ A} \times 25\%) = 41.95 \text{ A}$

Use: 2 - 14 mm² THHN + 1 - 8.0 mm² TW (G) @ 25 mm²

MAIN CIRCUIT BREAKER

Use: 60 AT/ 60 AF, 3 Pole, 230 VAC



PANEL BOARD DIAGRAM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, DAVAO, PALO LENTE

PROJECT TITLE:

CONSTRUCTION OF INNOVATION INCUBATOR CENTER BUILDING-
PALCAMPON INSTITUTE OF TECHNOLOGY

LOCATION: BRIS, SANANIL, PALCAMPON, DAVAO

SHEET CONTENTS:

ELECTRICAL LOADS SCHEDULE
PANEL BOARD DIAGRAM

PREPARED:

Domino L. Malco Jr.
DOMINO L. MALCO JR.
PROFESSIONAL ELECTRICAL ENGINEER
DATE: 10/10/2023

SUBMITTED:

Lucas N. Sacal
LUCAS N. SACAL
JESUS MORTINACIL, ECEP
DATE: 10/10/2023

RECOMMENDED:

MA. MARICARITA C. JUNA, D.M.
MARICARITA C. JUNA, D.M.
PROFESSIONAL ELECTRICAL ENGINEER
DATE: 10/10/2023

APPROVED:

Edgar B. Tabacora, CESO IV
EDGAR B. TABACORA, CESO IV
PROFESSIONAL ELECTRICAL ENGINEER
DATE: 10/10/2023

CONCURRED:

Demms A. Apilar, E.O.D.
DEMMS A. APILAR, E.O.D.
PROFESSIONAL ELECTRICAL ENGINEER
DATE: 10/10/2023

SET NO.

7 10

SHEET NO.

90 101

ELECTRICAL LOADS SCHEDULE

LOAD SCHEDULE

PANEL BOARD: PSB-7
ENCLOSURE : NEMA 1
MOUNTING : SURFACE

SERVICE : 3 - 30 mm² THHN + 1 - 8.0 mm² TW (G) @ 25 mm Ø PVC
MAIN CIRCUIT BREAKER : 60AT / 70 AF, 3 POLE, 230 VAC.

CKT NO.	Load Description	SWITCH			VA	VOLT	AMP	PHASE DISTRIBUTION			CB RATING		SIZE		
		S1	S2	S3				φAB	φBC	φCA	AT	POLE	mm ² THHN	mm ² (G) TW	mm Ø (PVC)
1	2 - 15 W / 4 - 30 W Lighting			1	150	230	.65	.65			15	2	2.0		15
2	9 - Lighting, 15 W	1	2		120	230	.52	.52			15	2	2.0		15
3	5 - Lighting, 15 W	1			75	230	.33			.33	15	2	2.0		15
4	12 - Conv. Outlet				2160	230	9.40			9.39	20	2	3.5	2.0	15
5	6 - 15 W / 2 x 30 W Lighting	6	2		150	230	.65	.65			15	2	2.0		15
6	10 - Conv. Outlet				1800	230	7.82		7.82		20	2	3.5	2.0	15
7	11 - Conv. Outlet				1980	230	8.60	8.60			20	2	3.5	2.0	15
8	ACU, 3 Tons				3730	230	16.50	16.50			40	2	5.5	5.5	20
9	ACU, 3 Tons				3730	230	16.50		16.50		40	2	5.5	5.5	20
10	SPARE										20				
11	ACU, 3 Tons				3730	230	16.5		16.50		40	2	5.5	5.5	20
12	SPARE										20				
TOTAL >>					17625			26.34	24.97	26.72	NOTE: All circuit breakers all bolt - on type				

COMPUTATIONS

TOTAL CONNECTED LOAD: $I_d = \sqrt{I_{AB}^2 + I_{BC}^2 + I_{CA}^2} / \sqrt{3} = 44.92 \text{ A}$

PVC

Assuming 85% Demand Factor:
Demand Load, $I_{d85} = 44.92 \times 0.85 = 40.25 \text{ A}$

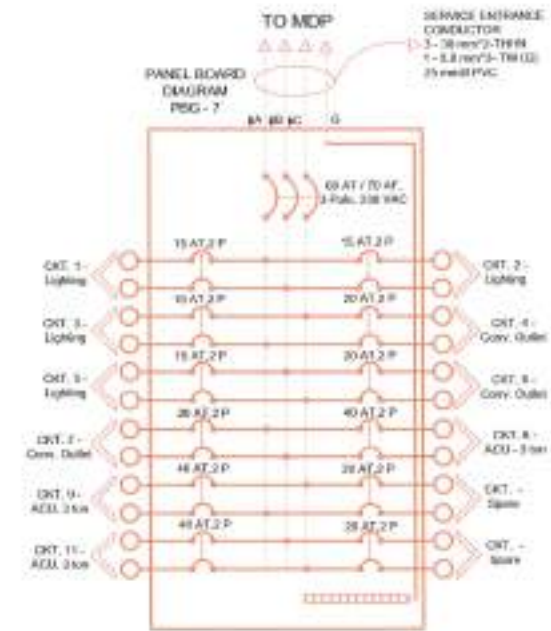
FEEDER SIZE

$I_f = 40.25 \text{ A} + 25\% (10 \text{ A}) = 44.55 \text{ A}$

Use: 3 - 14 mm² THHN + 1 - 8.0 mm² TW (G) @ 32 mm Ø

MAIN CIRCUIT BREAKER

Use: 60 AT / 100 AF, 3 Pole, 230 VAC MCCB



PANEL BOARD DIAGRAM

ELECTRICAL LOADS SCHEDULE

LOAD SCHEDULE

PANEL BOARD: PSB-1
ENCLOSURE : NEMA 1
MOUNTING : SURFACE

FEEDER SIZE : 3 - 14 mm² THHN + 1 - 8.0 mm² TW (G) @ 25 mm Ø PVC
MAIN CIRCUIT BREAKER : 50AT / 60AF, 3 POLE, 230 VAC.

CKT NO.	Load Description	SWITCH			VA	VOLT	AMP	PHASE DISTRIBUTION			CB RATING		SIZE		
		S1	S2	S3				φAB	φBC	φCA	AT	POLE	mm ² THHN	mm ² (G) TW	mm Ø (PVC)
1	3 - 30 W / 6 x 15 W / 3 x 15 W / 4 x 30 W Lighting		5		363	230	1.6	1.6			15	2	2.0		15
2	6 - 15 W / 5 x 30 W Lighting	3		1	240	230	1.0	1.0			15	2	2.0		15
3	11 Conv. Outlet				1980	230	8.6			8.6	20	2	3.5	2.0	15
4	15 - 15 W Lighting	1			225	230	1.0			1.0	15	2	2.0		15
5	11 Conv. Outlet				1980	230	8.6		8.6		20	2	3.5	2.0	15
6	ACU, 5 Tons				5380	230	19			19	40	2	5.5	5.5	20
7	ACU, 1 hp				1150	230	5.2	5.20			20	2	3.5	3.5	15
8	ACU, 5 Tons				5380	230	19	19.0			40	2	5.5	5.5	20
9	ACU, 5 Tons				5380	230	19		19.0		40	2	5.5	5.5	20
10	SPARE										20				
TOTAL >>					22078			26.8	27.4	28.6	NOTE: All circuit breakers all bolt - on type				

COMPUTATIONS

TOTAL CONNECTED LOAD: $I_d = \sqrt{I_{AB}^2 + I_{BC}^2 + I_{CA}^2} / \sqrt{3} = 47.92 \text{ A}$

PVC

Assuming 85% Demand Factor:
Demand Load, $I_{d85} = 47.92 \times 0.85 = 40.73 \text{ A}$

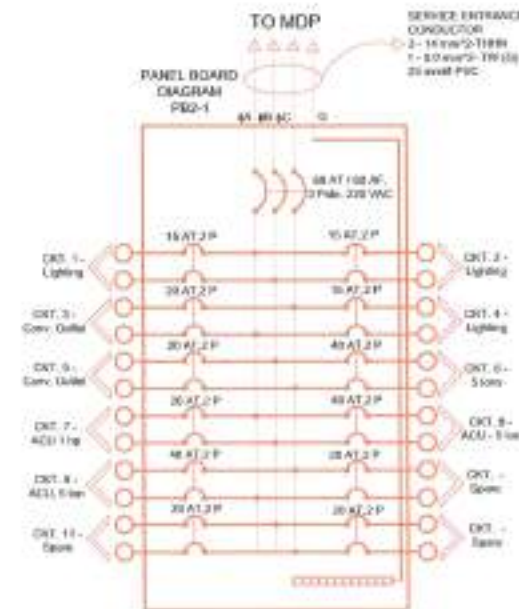
FEEDER SIZE

$I_f = 40.73 \text{ A} + 25\% (10 \text{ A}) = 45.48 \text{ A}$

Use: 3 - 14 mm² THHN + 1 - 8.0 mm² TW (G) @ 25 mm Ø

MAIN CIRCUIT BREAKER

Use: 60 AT / 70 AF, 3 Pole, 230 VAC



PANEL BOARD DIAGRAM



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, DAVAO, PALO LENTE

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING-
PALO LENTE INSTITUTE OF TECHNOLOGY
LOCATION: DAVAO, PALO LENTE

SHEET CONTENTS:
ELECTRICAL LOADS SCHEDULE
PANEL BOARD DIAGRAM

PREPARED:
ENGR. DOMINGO L. VALDES JR.
PROFESSIONAL ELECTRICAL ENGINEER

SUBMITTED:
LUCAS R. BACAL
CHIEF ELECTRICAL ENGINEER

RECOMMENDED:
MR. MARGARITA C. JUNIA, S.M.
REGISTERED ELECTRICAL ENGINEER

APPROVED:
EDGAR R. TARACON, CESO IV
REGIONAL DIRECTOR

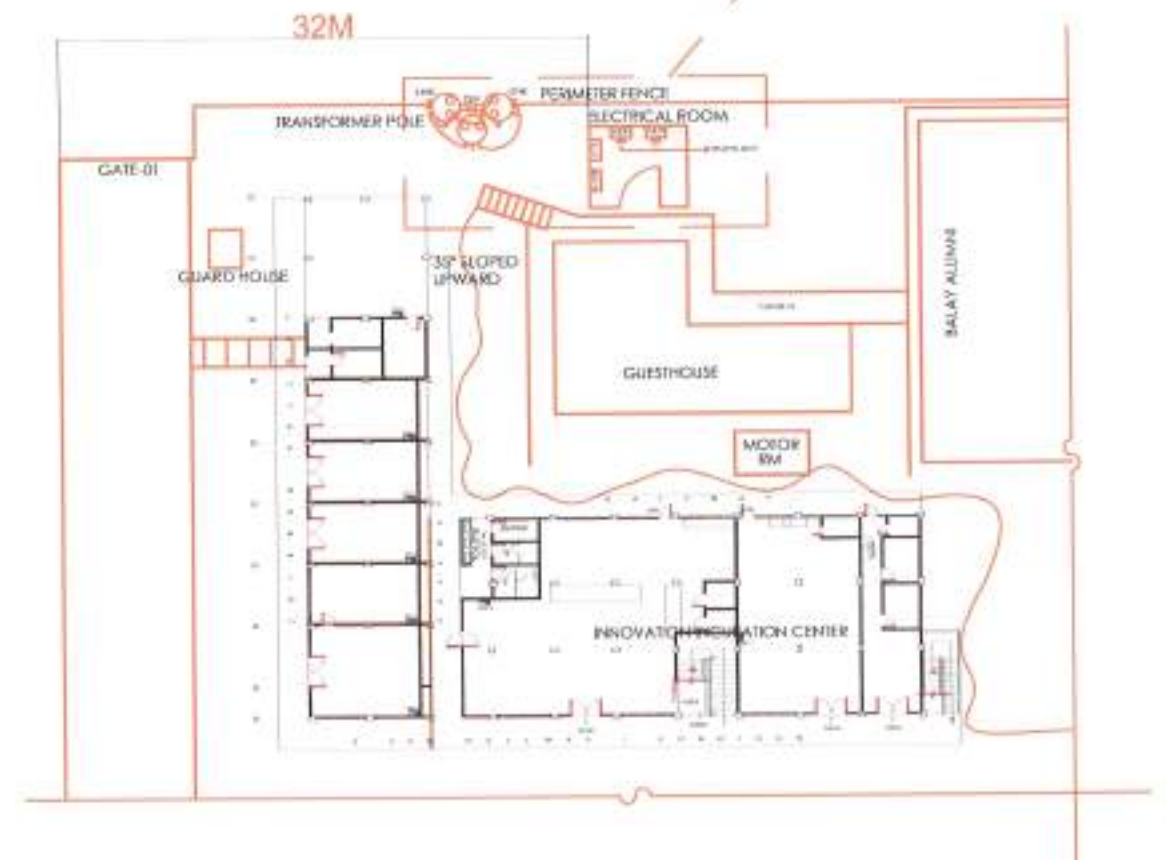
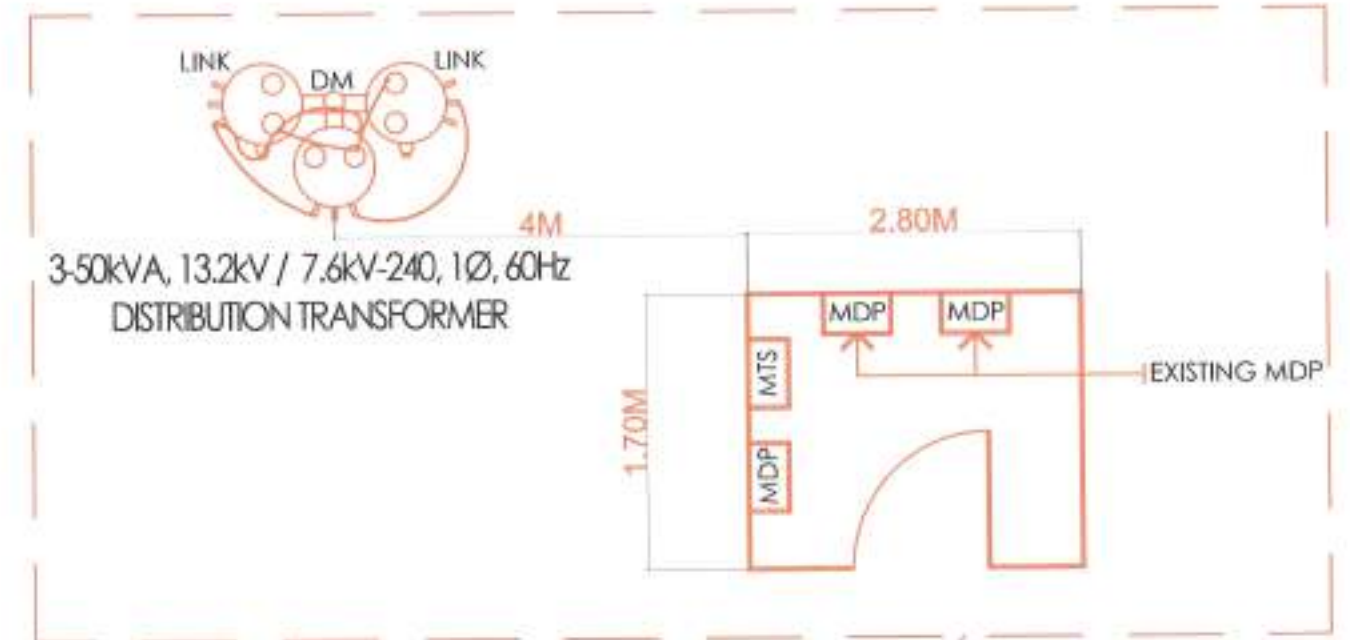
CONCLUDED:
DENNIS A. DELA CRUZ, Ed.D.
UNIVERSITY CHIEF

SHEET NO.
01
SHEET NO.
101

Palompin Institute of Technology
Institutional Planning and Development Office
SITE DEVELOPMENT PLAN



1 SITE PLAN
E-10 DRAWN NOT TO SCALE



2 LOCATION PLAN
E-10 DRAWN NOT TO SCALE



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, BAKING, PALO LUITE

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING-
PALOMPIN INSTITUTE OF TECHNOLOGY
LOCATION: 1800, GUERRA & PALOMPIN, LITE

SHEET CONTENTS:
SITE PLAN
LOCATION PLAN

DESIGNED:
ENGR. DOMINIC L. BALDI JR.
PROFESSIONAL ELECTRICAL ENGINEER
(DATE)

SUBMITTED:
LUCAS M. SACSAL
CHIEF, MAINTENANCE DIVISION
(DATE)

RECOMMENDED:
MA. NASSARITA C. JORJA, DM
ASST. CHIEF, MAINTENANCE DIVISION
(DATE)

APPROVED:
EDGAR B. TABACON, CESO IV
GENERAL DIRECTOR
(DATE)

CONCURRED:
DENNIS A. DELA PENA, C.E.D.
LAW OFFICE
(DATE)

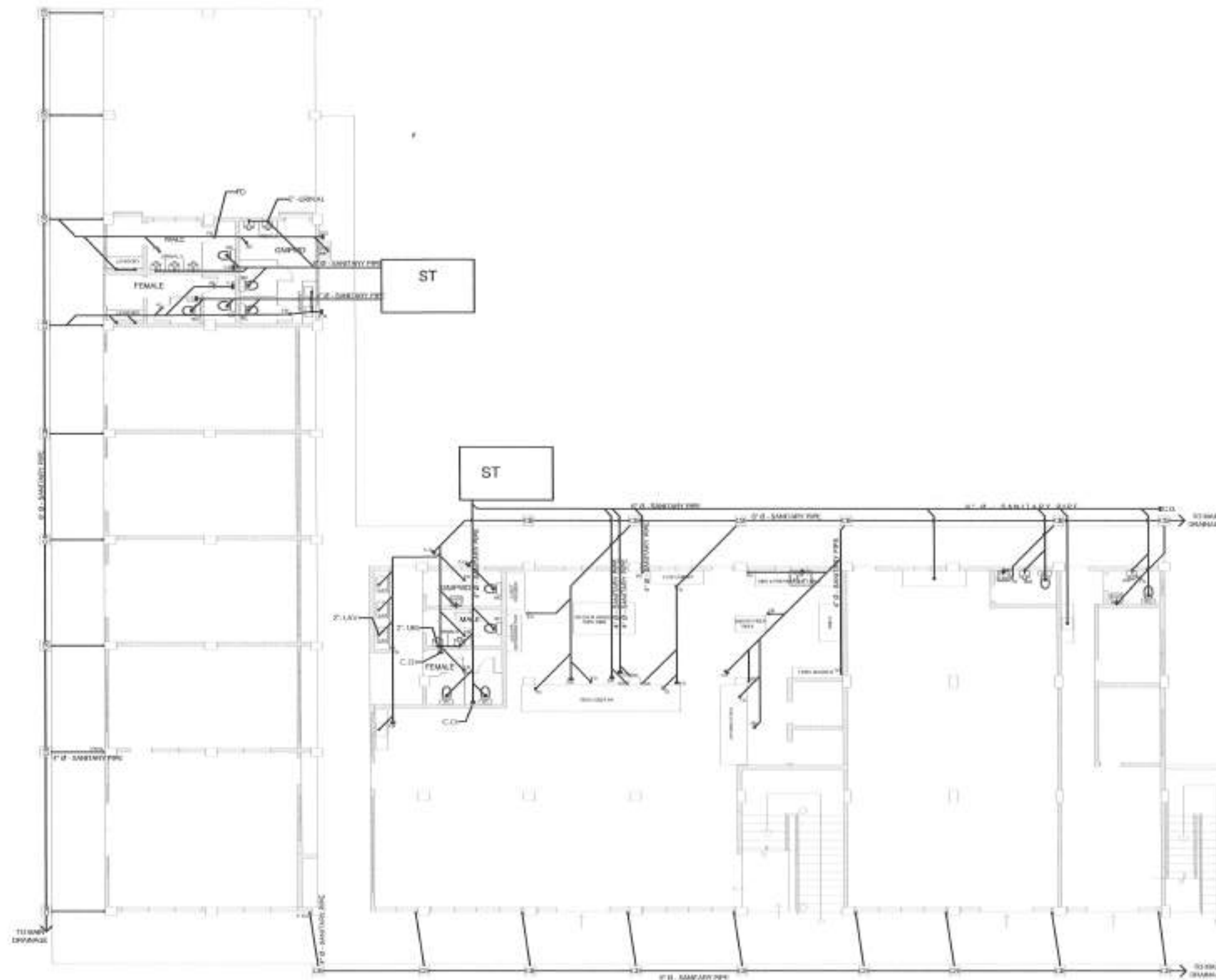
SET NO. SHEET NO.
E 03
10 101

SPECIFICATION :

1. ALL PLUMBING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE OF THE PHILIPPINES AND ITS LOCAL ORDINANCES.
2. ALL PLUMBING INSTALLATION SHALL BE RUN IN A PRACTICAL ALIGNMENT WITH A 5% SLOPE.
3. ALL PIPING PASSING THRU CONCRETE SHALL BE PROTECTED FROM BREAKAGE.
4. ALL PIPING JOINTS SHALL BE CAULKED OR APPLIED WITH PVC PLASTIC SOLVENT CEMENT.
5. ALL PLUMBING INSTALLATION SHALL BE UNDER THE DIRECT SUPERVISION OF A COMPETENT AND DULY LICENSED MASTER PLUMBER.
6. ALL HORIZONTAL PIP SHALL RUN IN A PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 1% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL NOT TO EXCEED 1.50 METERS.
7. ALL WATERLINE PIPE SHALL PASSED PRESSURE TEST OF A MINIMUM 150 PSI.

LEGEND

	SYMBOL	DESCRIPTION
WC	4"	WATER CLOSET
LAV	2"	LAVATORY
F	2"	FLOOR DRAIN
SHO	2"	SHOWER
SV	2"	STOCK VENT THROUGH ROOF
SV	4"	STOCK VENT
BV	4"	BRANCH VENT



1 GROUND FLOOR SANITARY LAYOUT
P-1 SCALE: 1:100 MTS.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, NARAS, PALOLETTE

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING-
PALOMPON INSTITUTE OF TECHNOLOGY
LOCATION: WEST QUARTER, PALOMPON, PALOLETTE

SHEET CONTENTS:
GROUND FLOOR SANITARY LAYOUT

PREPARED BY:
ENGR. SAMUEL T. UYKENG
DATE: 10/10/2023

SUBMITTED BY:
ENGR. LUIS BACAL
DATE: 10/10/2023

RECOMMENDED BY:
MA. MARGARITA C. JUNA, O.M.
DATE: 10/10/2023

APPROVED BY:
EDGAR A. TABACON, CESO IV
DATE: 10/10/2023

CONCURRED BY:
DENNIS A. DELA CRUZ, C.E.O.
DATE: 10/10/2023

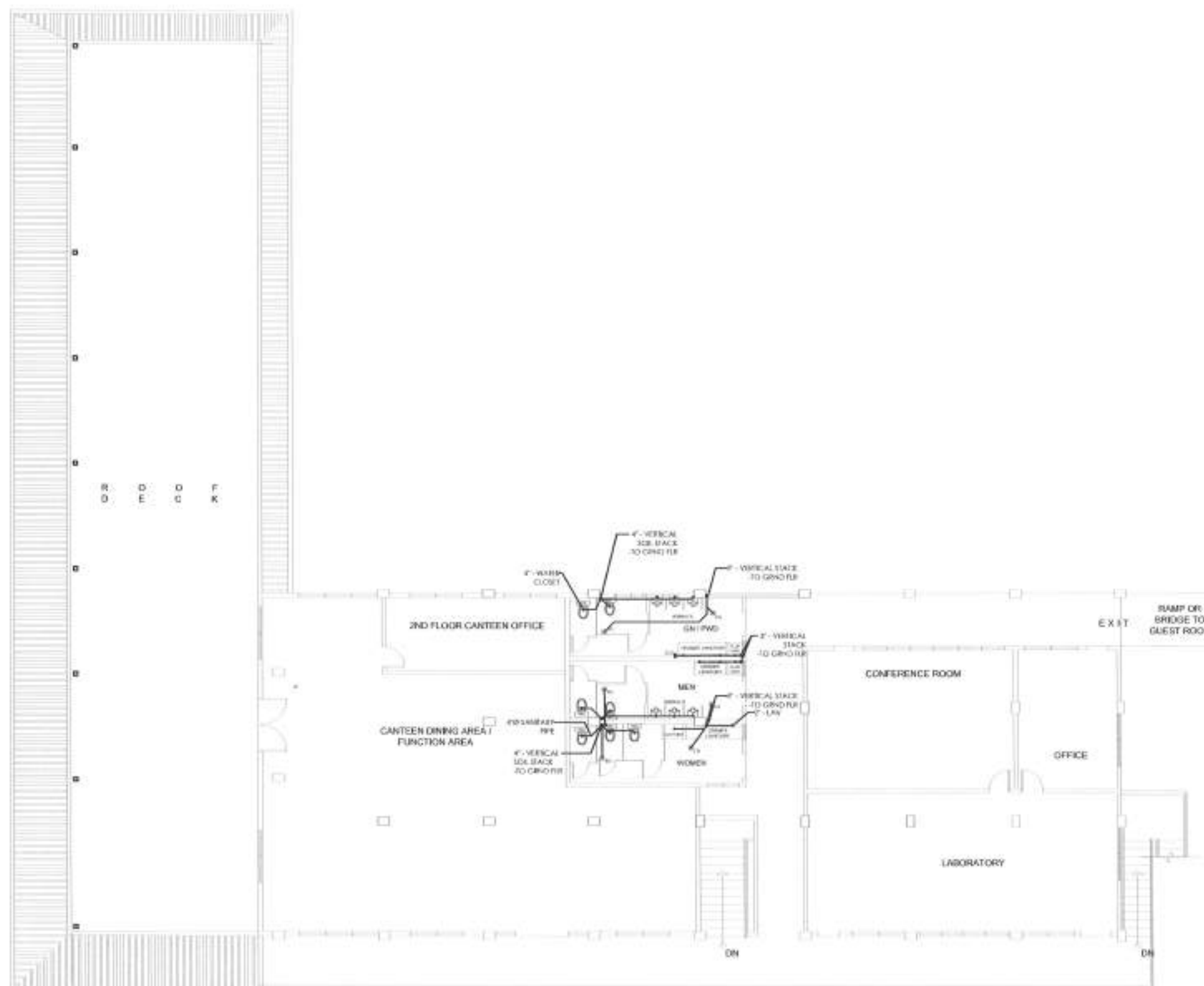
SET NO. 1
SHEET NO. 04
101

SPECIFICATION :

1. ALL PLUMBING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE OF THE PHILIPPINES AND ITS LOCAL ORDINANCES.
2. ALL PLUMBING INSTALLATION SHALL BE RUN IN A PRACTICAL ALIGNMENT WITH A 1% SLOPE.
3. ALL PIPES PASSING THRU CONCRETE SHALL BE PROTECTED FROM BREAKAGE.
4. ALL PIPING JOINTS SHALL BE CAULKED OR APPLIED WITH PVC PLASTIC SOLVENT CEMENT.
5. ALL PLUMBING INSTALLATION SHALL BE UNDER THE DIRECT SUPERVISION OF A COMPETENT AND DULY LICENSED MASTER PLUMBER.
6. ALL HORIZONTAL PIPE SHALL RUN IN A PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 1% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL NOT TO EXCEED 1.00 METERS.
7. ALL WATERLINE PIPE SHALL PASSED PRESSURE TEST OF A MINIMUM 100 PSI.

LEGEND

		WATER LINE
		SANITARY LINE
WC	4"	WASH CLOSET
LAV	2"	LAVATORY
F	2"	FURST
FD	2"	FLOOR DRAIN
SHO		SHOWER
IM		WATER METER
GV		GATE VALVE
CV		CHECK VALVE
CB		CATCH-BASIN
DS	3"	DOWN SPOUT
SB	4"	SBS BRANCH
WB	4"	WASTE BRANCH
SVTR	2"	STACK VENT THROUGH ROOF
SV	4"	STACK VENT
BV	4"	BRANCH VENT



1 SECOND FLOOR SANITARY LAYOUT
P - 2 SCALE: 1:100 MTS.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, NARAYAN, PALO ALTO

PROJECT TITLE:

CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING
PALOMPON INSTITUTE OF TECHNOLOGY

LOCATION: BRGY. LUPAT, PALOMPON, COTABATO

SHEET CONTENTS:

SECOND FLOOR SANITARY LAYOUT

PREPARED:

ENGR. SAMUEL T. UYMEING
MASTER PLUMBER

DATE:

SUBMITTED:

LUCAS N. SANCAL
LIEUT. MUNICIPAL ENGINEER

DATE:

RECOMMENDED:

MA. MARICARTA C. JUNIA, E.M.
ASSISTANT MUNICIPAL ENGINEER

DATE:

APPROVED:

EDGAR B. TABACON, CESO IV
REGIONAL DIRECTOR

DATE:

CONCURRED:

DENNIS A. DELA CRUZ, E.S.D.
UNIVERSITY ASSISTANT

DATE:

SET NO.

P

2

SHEET NO.

95

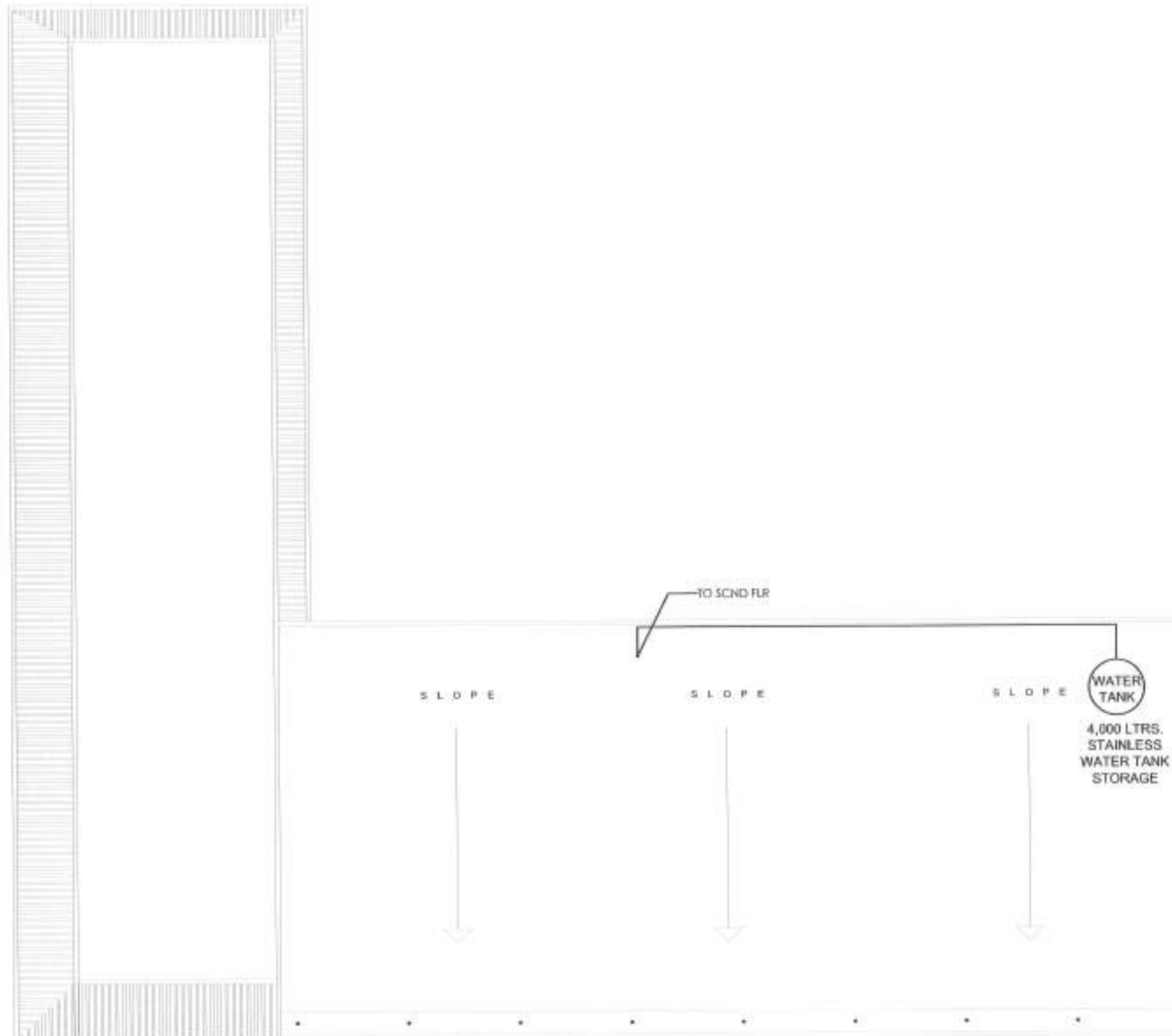
101

SPECIFICATION :

1. ALL PLUMBING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE OF THE PHILIPPINES AND ITS LOCAL ORDINANCES.
2. ALL PLUMBING INSTALLATION SHALL BE RUN IN A PRACTICAL ALIGNMENT WITH A 1% SLOPE.
3. ALL PIPING PASSING THRU CONCRETE SHALL BE PROTECTED FROM DAMAGE.
4. ALL PIPING JOINTS SHALL BE CAULKED OR APPLIED WITH PVC PLASTIC SOLVENT CEMENT.
5. ALL PLUMBING INSTALLATION SHALL BE UNDER THE DIRECT SUPERVISION OF A COMPETENT AND DULY LICENSED MASTER PLUMBER.
6. ALL HORIZONTAL PIPE SHALL RUN IN A PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 1% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL NOT TO EXCEED 1.5 METERS.
7. ALL WATERLINE PIPE SHALL PASS PRESSURE TEST OF A MINIMUM 100 PSI.

LEGEND

		WATERLINE
		SANITARY LINE
WC	4"	WATER CLOSET
LAV	2"	LAVATORY
F	2"	Faucet
FD	2"	FLOOR DRAIN
SHO		SHOWER
M		WATER METER
GV		GATE VALVE
CV		CHECK VALVE
CB		CATCH BASIN
DS	3"	DOWN SPOUT
SB	4"	SOIL BRANCH
WB	4"	WASTE BRANCH
SVTR	2"	STACK VENT THROUGH ROOF
SV	4"	STACK VENT
BV	4"	BRANCH VENT



1
P - 3 **ROOF DRAIN LAYOUT**
SCALE: 1:100 MTS.

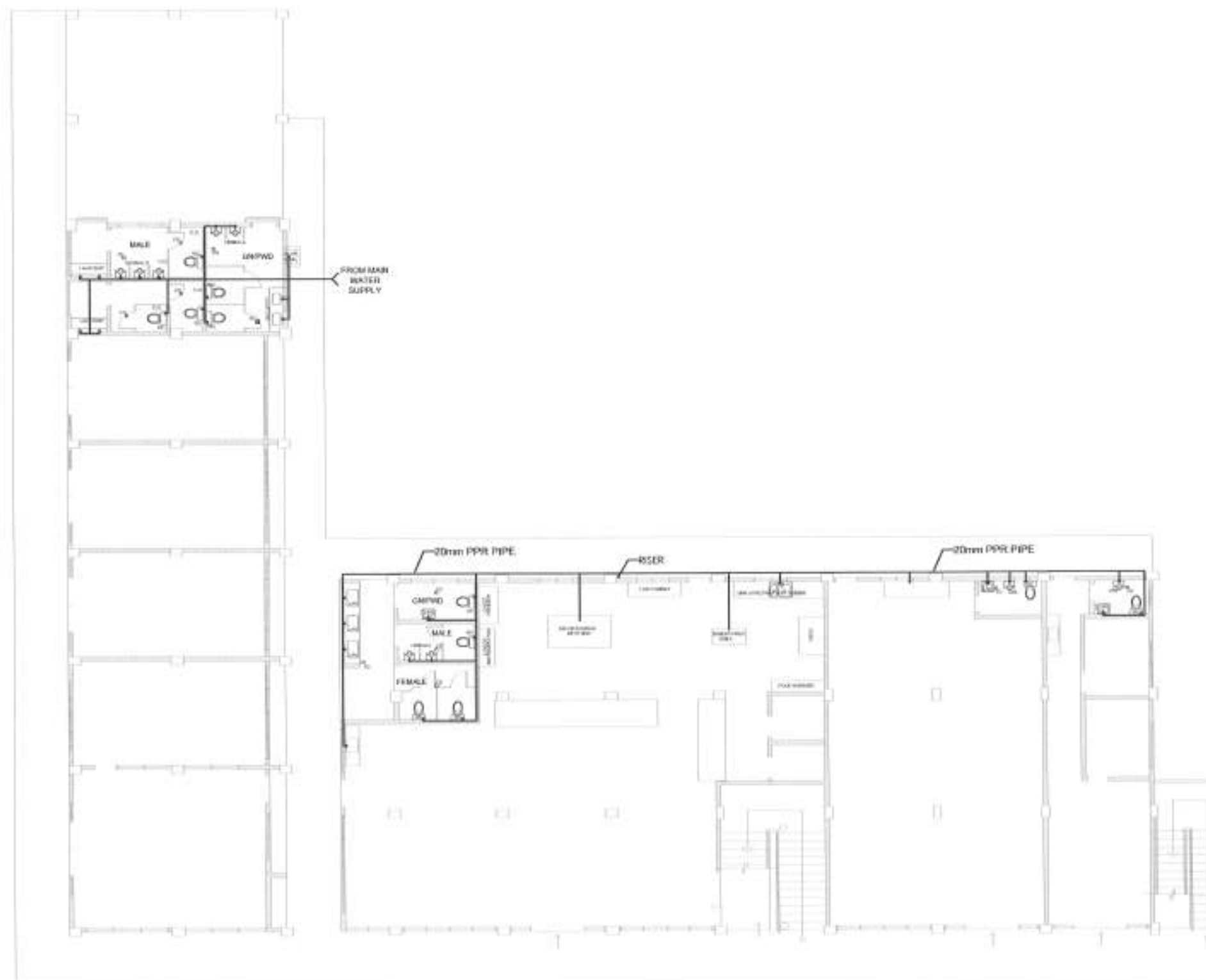
 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII GOVERNMENT CENTER, DAVAO, PALO DUTTE	PROJECT TITLE:	SHEET CONTENTS:	PREPARED:	SUBMITTED:	RECOMMENDED:	APPROVED:	CONCURRED:	SFT NO.	SHEET NO.			
	CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING- PALOMPON INSTITUTE OF TECHNOLOGY	ROOF DRAIN LAYOUT	ENGR. SAMUEL T. UYKENG MASTER PLUMBER DATE: _____	LUCASIN BACSAL CHIEF, MAINTENANCE DIVISION DATE: _____	MA. MARICRISTAL S. JUNIA, D.M. ASSISTANT REGIONAL DIRECTOR DATE: _____	ENRIAR D. TABACON, CESO IV REGIONAL DIRECTOR DATE: _____	DENNIS P. PELAR, S.A.D. UNIVERSITY PRESIDENT DATE: _____	<table><tr><td>P</td></tr><tr><td>30</td></tr></table>	P	30	<table><tr><td>96</td></tr><tr><td>101</td></tr></table>	96
P												
30												
96												
101												

SPECIFICATION :

1. ALL PLUMBING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE OF THE PHILIPPINES AND ITS LOCAL ORDINANCES.
2. ALL PLUMBING INSTALLATION SHALL BE RUN IN A PRACTICAL ALIGNMENT WITH A 0% SLOPE.
3. ALL PIPES PASSING THRU CONCRETE SHALL BE PROTECTED FROM BREAKAGE.
4. ALL PIPING JOINTS SHALL BE CAULKED OR APPLIED WITH PVC PLASTIC SOLVENT CEMENT.
5. ALL PLUMBING INSTALLATION SHALL BE UNDER THE DIRECT SUPERVISION OF A COMPETENT AND FULLY LICENSED MASTER PLUMBER.
6. ALL HORIZONTAL PIPE SHALL RUN IN A PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 1% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL NOT TO EXCEED 1.5 METERS.
7. ALL WATERLINE PIPE SHALL PASS PRESSURE TEST OF A MINIMUM 100 PSI.

LEGEND

		WATER LINE
		SANITARY LINE
WC	4"	WATER CLOSET
LAV	2"	LAVATORY
F	2"	FAUCET
FD	2"	FLOOR DRAIN
SHO		SHOWER
M		WATER METER
GV		GATE VALVE
CV		CHECK VALVE
CB		CATCH BASIN
DS	3"	DOWN SPOUT
SB	4"	SOL. BRANCH
WB	4"	WASTE BRANCH
SVTR	2"	STACK VENT THROUGH ROOF
SV	4"	STACK VENT
BV	4"	BRANCH VENT



1 **GROUND FLOOR WATER SUPPLY LAYOUT**
P-4 SCALE: 1:100 MTS.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, DAVAO, PALOYETE

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING,
PALOMPON INSTITUTE OF TECHNOLOGY
LOCATION: DIST. LUPKIN, PALOMPON, DAVAO

SHEET CONTENTS:
GROUND FLOOR WATER SUPPLY LAYOUT

PREPARED:

ENGR. SAMUEL T. UYONGCO
MASTER PLUMBER
DATE:

SUBMITTED:

LUCAS N. GUAL
CITY SANITARIAN
DATE:

RECOMMENDED:

MA. MARGARITA C. DIAZ, D.M.
ASSISTANT REGIONAL ENGINEER
DATE:

APPROVED:

EDSARD B. TABACON, CESO IV
REGIONAL DIRECTOR
DATE:

CONCURRED:

DENNIS A. ALAR, E.D.
UNIVERSITY PRESIDENT
DATE:

SCT NO. SHEET NO.

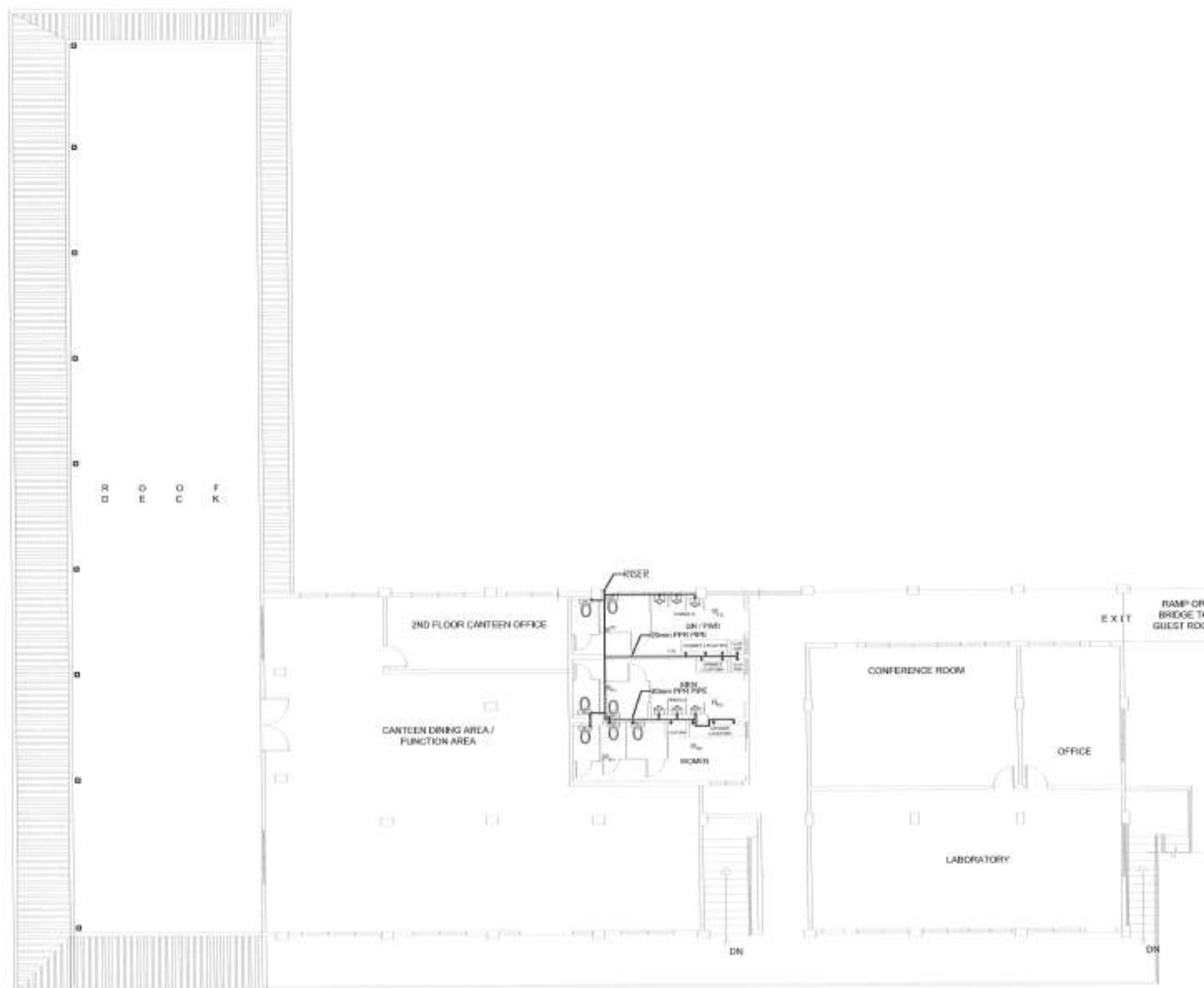
P 4 8 97 101

SPECIFICATION :

1. ALL PLUMBING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE OF THE PHILIPPINES AND ITS LOCAL ORDINANCES.
2. ALL PLUMBING INSTALLATION SHALL BE RUN IN A PRACTICAL ALIGNMENT WITH A 5% SLOPE.
3. ALL PIPES PASSING THRU CONCRETE SHALL BE PROTECTED FROM BREAKAGE.
4. ALL PIPING JOINTS SHALL BE CAULKED OR APPLIED WITH PVC PLASTIC SEA-VENT CEMENT.
5. ALL PLUMBING INSTALLATION SHALL BE UNDER THE DIRECT SUPERVISION OF A COMPETENT AND DULY LICENSED MASTER PLUMBER.
6. ALL HORIZONTAL PIPE SHALL RUN IN A PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 1% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL NOT TO EXCEED 1.50 METERS.
7. ALL WATERLINE PIPE SHALL PASSED PRESSURE TEST OF A MINIMUM 100 PSI.

LEGEND

		WATER LINE
		SANITARY LINE
WC	4"	WATER CLOSET
LAV	2"	LAVATORY
F	2"	FALUET
FD	2"	FLOOR DRAIN
SHO		SHOWER
M		WATER METER
GV		GATE VALVE
CV		CHECK VALVE
CB		CATCH BASIN
DS	2"	DOWN SPOUT
SB	4"	SOB BRANCH
WB	4"	WASTE BRANCH
SVTR	2"	STACK VENT THROUGH ROOF
SV	4"	STACK VENT
BV	4"	BRANCH VENT



1 SECOND FLOOR WATER SUPPLY LAYOUT
P - 5 SCALE: 1:100 MTS.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, SARAS, PALO UYTE

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING-
PALDISIPON INSTITUTE OF TECHNOLOGY
LOCATION: ONLY, GORRAL, PALDISIPON, LITTE

SHEET CONTENTS:
SECOND FLOOR WATER SUPPLY LAYOUT

PREPARED:
ENGR. SAMUEL T. UYKENG
DATE: 10/26/2023

SUBMITTED:
LUCAS N. BALSAL
DATE: 10/26/2023

RECOMMENDED:
MA. MARGARITA C. JONIA, D.M.
DATE: 10/26/2023

APPROVED:
EDGAR R. TABACON, CESO IV
DATE: 10/26/2023

CONCURRED:
DENNIS A. PAMPLAR, E.D.
DATE: 10/26/2023

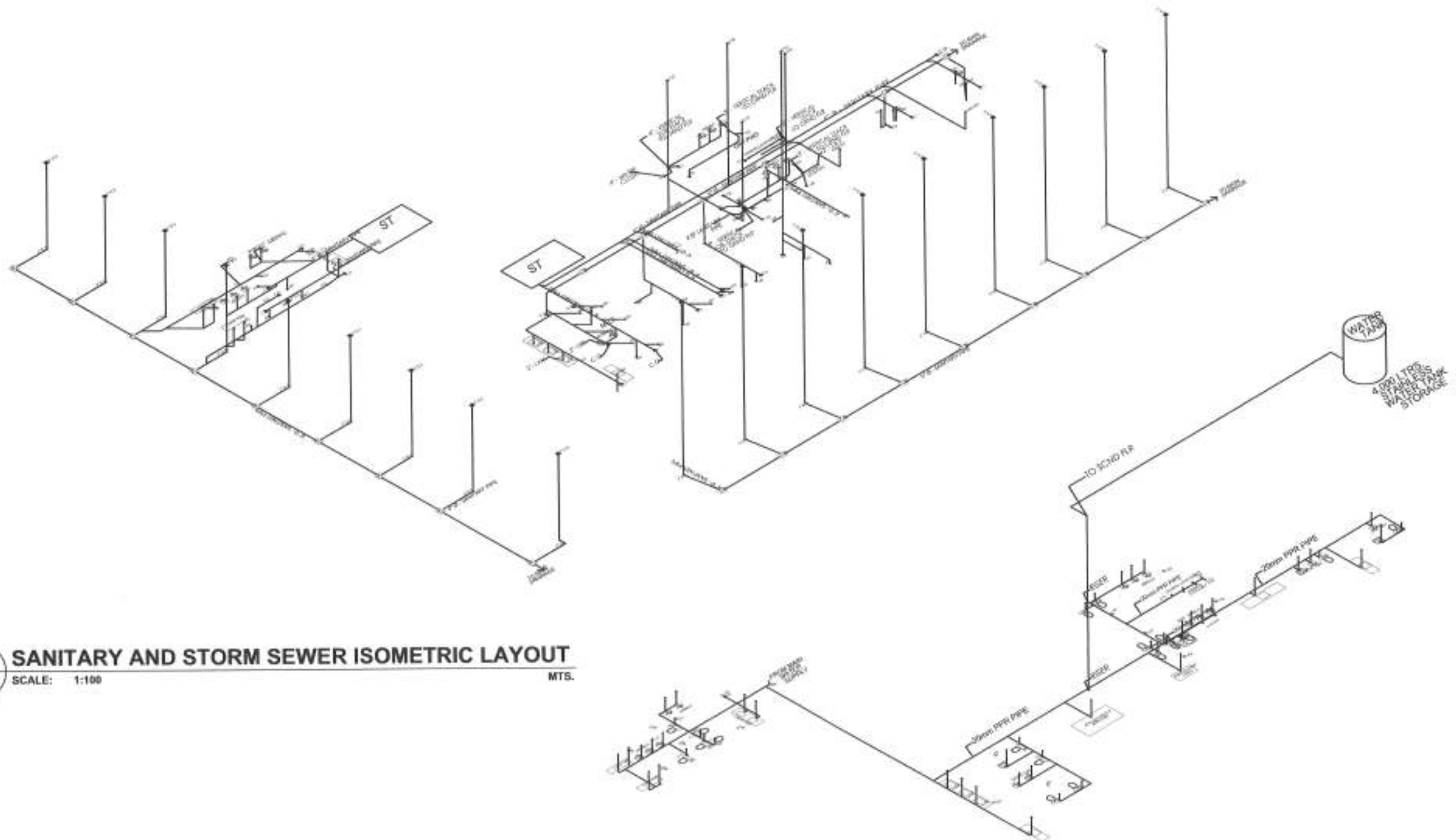
SET NO. 08
SHEET NO. 101

1.	ALL PLUMBING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE OF THE PHILIPPINES AND ITS LOCAL ORDINANCES.
2.	ALL PLUMBING INSTALLATION SHALL BE RUN IN A PRACTICAL ALIGNMENT WITH A SLOPE.
3.	ALL PIPING PASSING THRU CONCRETE SHALL BE PROTECTED FROM CORROSION.
4.	ALL PIPING JOINTS SHALL BE CAULKED OR APPLIED WITH PVC PLASTIC SOLVENT CEMENT.
5.	ALL PLUMBING INSTALLATION SHALL BE UNDER THE DIRECT SUPERVISION OF A COMPETENT AND DULY LICENSED MASTER PLUMBER.
6.	ALL HORIZONTAL PIPE SHALL RUN IN A PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 1% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL NOT TO EXCEED 1.5 METERS.
7.	ALL WATERLINE PVC SHALL PASSED PRESSURE TEST OF A MINIMUM 100 PSI.

LEGEND		
		WATER LINE
		SEWERY LINE
WC	4"	WATER CLOSET
LAV	2"	LAVATORY
F	2"	FURST
FD	2"	FLOOR DRAIN
SHO		SHOWER
M		WATER METER
CV		GAS VALVE
CV		CHECK VALVE
CB		CATCH BASIN
DS	2"	DOWN SPOUT
SB	4"	SOL. BRANCH
WB	4"	WASTE BRANCH
SVTR	2"	STACK VENT THROUGH ROOF
SV	4"	STACK VENT
BV	4"	BRANCH VENT

1 ROOF DECK WATER SUPPLY LAYOUT
P - 6 SCALE: 1:100 MTS.

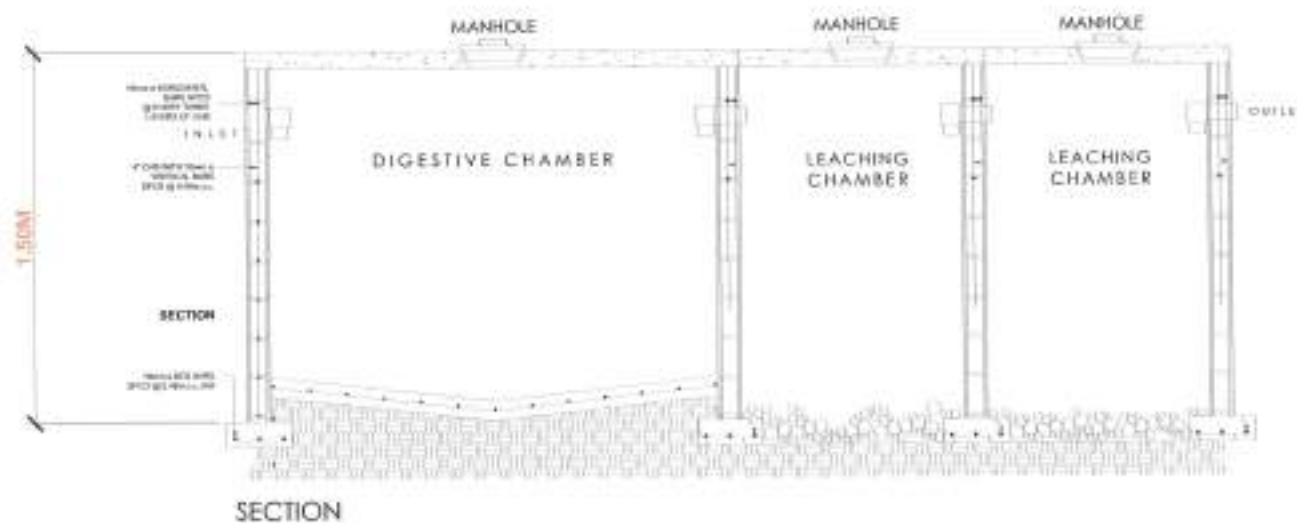
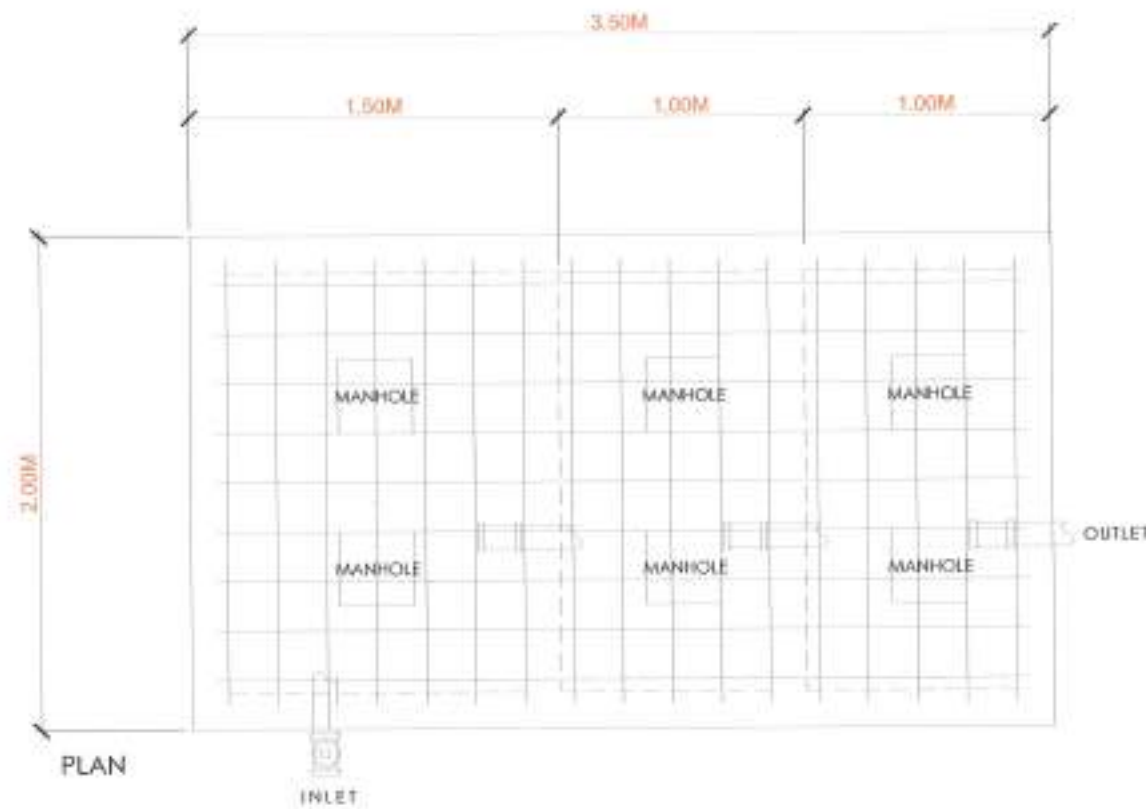
 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII GOVERNMENT CENTER, BANGAL, PALI LAYTE	PROJECT TITLE:	SHEET CONTENTS:	DESIGNED:	SUBMITTED:	RECOMMENDED:	APPROVED:	CONCURRED:	REV. NO.	SHEET NO.
	CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING- PALIMPON INSTITUTE OF TECHNOLOGY	ROOF DECK WATER SUPPLY LAYOUT	 ENGR. SAMUEL T. UYONG MASTER PLUMBER DATE:	 LUCAS N. BACSAI CHIEF, MAINTENANCE DIVISION DATE:	 MA. MARGARITA C. JUMA, D.M. ASSISTANT REGIONAL DIRECTOR DATE:	 EDGAR B. TABACON, CESO IV REGIONAL DIRECTOR DATE:	 DENNIS A. DELA CRUZ, E.O. UNIVERSITY REPRESENTATIVE DATE:		
	LOCATION: BRID, GAWANG (PALIMPON LAYTE)								



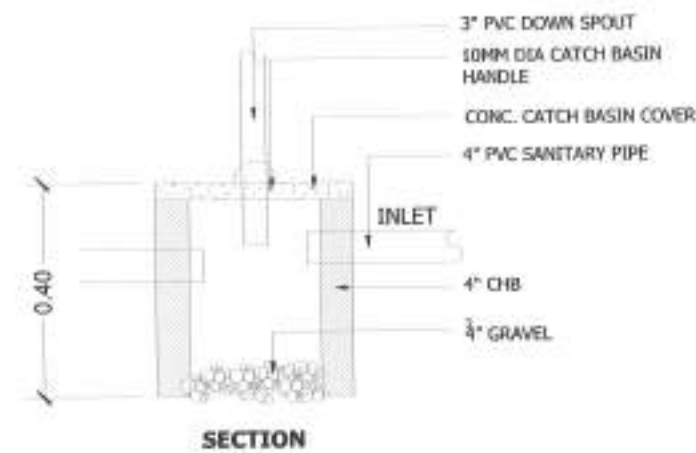
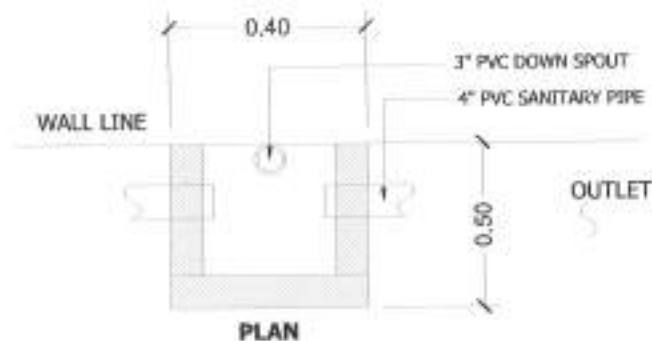
1 **SANITARY AND STORM SEWER ISOMETRIC LAYOUT**
P - 7 SCALE: 1:100 MTS.

2 **WATER SUPPLY ISOMETRIC LAYOUT**
P - 7 SCALE: 1:100 MTS.

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII GOVERNMENT CENTER, DAVAO, PHILIPPINES	PROJECT TITLE:	SHEET CONTENTS:	PREPARED:	SUBMITTED:	RECOMMENDED:	APPROVED:	CONCURRED:	SHEET NO.	SHEET NO.
	CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING- PALABON INSTITUTE OF TECHNOLOGY	SANITARY AND STORM SEWER ISOMETRIC LAYOUT WATER SUPPLY ISOMETRIC LAYOUT	ENGR. SAMUEL T. UYKENS DATE: 10/10/2023	LUCAS N. BACSAI DATE: 10/10/2023	MA. MARGARETA C. JUNIA, D.M. DATE: 10/10/2023	EDGARDO TABACON, CESO IV DATE: 10/10/2023	DENNIS A. SILLAR, E.O.D. DATE: 10/10/2023	P 7	100 101
	LOCATION: BRD. SUPPLY, PALABON, DAVAO								



1
P - 8 **DETAIL OF SEPTIC TANK**
SCALE: 1:30 MTS.



2
P - 8 **DETAIL OF CATCH BASIN**
SCALE: 1:30 MTS.

SPECIFICATION :

1. ALL PLUMBING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE OF THE PHILIPPINES AND ITS LOCAL ORDINANCES.
2. ALL PLUMBING INSTALLATION SHALL BE RUN IN A PRACTICAL ALIGNMENT WITH A 1% SLOPE.
3. ALL PIPES PASSING THRU CONCRETE SHALL BE PROTECTED FROM BREAKAGE.
4. ALL PIPE JOINTS SHALL BE OILERED OR APPLIED WITH PVC PLASTIC SOLVENT CEMENT.
5. ALL PLUMBING INSTALLATION SHALL BE UNDER THE DIRECT SUPERVISION OF A COMPETENT AND DULY LICENSED MASTER PLUMBER.
6. ALL HORIZONTAL PIPE SHALL RUN IN A PRACTICAL ALIGNMENT AND AT UNIFORM GRADE NOT LESS THAN 1% AND SHALL BE SUPPORTED OR ANCHORED AT AN INTERVAL, NOT TO EXCEED 1.8 METERS.
7. ALL WATERLINE PIPE SHALL PASS PRESSURE TEST OF A MINIMUM 100 PSI.

LEGEND

		WATER LINE
WCL	4"	WATER CLOSET
LAV	2"	LAVATORY
F	2"	Faucet
FD	2"	FLOOR DRAIN
SHD		SHOWER
M		WATER METER
GV		Gate Valve
CV		CHECK VALVE
CB		CATCH BASIN
DS	2"	DOWN SPOUT
SB	4"	SOIL BRANCH
WB	4"	WASTE BRANCH
SVTR	2"	STACK VENT THROUGH ROOF
SV	4"	STACK VENT
SV	4"	BRANCH VENT



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
GOVERNMENT CENTER, DAVAO, PALO DUYTE

PROJECT TITLE:
CONSTRUCTION OF INNOVATION INCUBATION CENTER BUILDING-
PALAMPON INSTITUTE OF TECHNOLOGY
LOCATION: BRGY. OLIVIA, PALAMPON, DAVAO

SHEET CONTENTS:
DETAIL OF SEPTIC TANK
DETAIL OF CATCH BASIN

PREPARED:
ENGR. SAMUEL T. UYKENG
SENIOR PLUMBER
DATE: 2018

SUBMITTED:
LUCAS H. BASAL
CHIEF, SANITATION DIVISION
DATE: 2018

RECOMMENDED:
MA. MARICRITA C. LIMA, D.M.
ASSISTANT REGIONAL DIRECTOR
DATE: 2018

APPROVED:
EDGARDO TABACON, CESO IV
REGIONAL DIRECTOR
DATE: 2018

CONCURRED:
DENNIS A. DELA PLATA, C.E.O.
UNIVERSITY PLUMBER
DATE: 2018

SET NO. 101
SHEET NO. 101