GENERAL ELECTRICAL NOTES AND SPECIFICATION: 1. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION THE PHILIPPINE ELECTRICAL CODE, TO THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED AND THE REQUIREMENTS OF LOCAL UTILITY COMPANIES. 2. ALL PIPE EMBEDDED IN CONCRETE SHALL BE POLYVINYL CHLORIDE (PVC) AND ALL EXPOSED SHALL BE ELECTRICAL METALLIC CONDUIT (EMT). 3. MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 2.0 mm THHN AND 20MM (1/2") NOMINAL DIA. RESPECTIVELY, UNLESS OTHERWISE SPECIFIED ON PLANS. 4. NO BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN 80% OF ITS RATING. 5. LIGHT CONTROL SWITCHES SHALL BE RATED 16 AMPERES, 230 Vac. 6. UNLESS OTHERWISE SPECIFIED PULLBOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INDICATED ON BLANS 7. FOR EACH SPARE CIRCUIT IN PANELBOARD, PROVIDE AN EMPTY CONDUIT 20MM (3/4") DIA. TERMINATING TO A COVERED SQUARE BOX. 8. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSES. 9. ALL METAL FRAMES SHALL BE PROPERLY AND ADEQUATELY GROUNDED. GROUND WIRE SHALL BE PROVIDED ON ALL EQUIPMENT FEEDER. 10. MOUNTING HEIGHTS SHALL BE AS FOLLOWS: 1.40m A.F.F. AT CENTER a. LIGHT SWITCHES b. RECEPTACLES 0.30m A.F.F. c. COUNTER TOP OUTLET 1.10m A.F.F. d. RANGEHOOD OUTLET e. PANELBOARDS AS REQUIRED UNDERFIELD CONDITION f. GROUND FAULT INTERRUPTER 1.10m A.F.F. g. RANGE OUTLET 0.50m A.F.F. h. REFRIGERATOR OUTLET ____ 0.50m A.F.F. I. ACU's (WINDOW TYPE) AS REQUIRED UNDERFIELD CONDITION 11.OUTLET BOXES SHALL BE AS FOLLOWS: LIGHT OUT 1-1/2" DEEP, 4" OCTAGONAL BOX 1 OR 2 WAY ENTRIES 2-1/8" DEEP, 4" OCTAGONAL BOX 3 OR 4 WAY ENTRIES RECEPTACLES AND TELEVISION ANT. 2-1/8" DEEP, 2"X4" UTILITY BOX 1 OR 2 RACEWAY ENTRIES AND TELEPHONE OUT 1-1/2" DEEP, 4" SQUARE BOX WITH 1-GANG RAISED PLASTIC COVER FOR 3 OR 4 RACEWAY ENTRIES 12. ALL FLUORESCENT LAMPS SHALL BE PROVIDED WITH POLYESTER FILLED PRE-HEAT THERMALLY PROTECTED HIGH POWER BALLAST. 13.DUPLEX RECEPTACLES SHALL BE RATED 10 AMP, 250 VOLTS, ROUNDED SLOT FOR 220 VOLTS AND SPECIAL OUTLETS SHALL BE RATED 15AMP.,250 VOLTS AS REQUIRED. 14. THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY FEES REQUIRED FOR THE WORKS, AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER'S FINAL CERTIFICATE OF INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETE WORKS. 15. EXPOSED CONDUIT RUN SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE FLOOR AND SUPPORTED BY CLAMPS EVERY 152.4 CM, DIAGONAL RUN SHALL NOT BE ACCEPTED. (THIS IS ALSO APPLICABLE TO CONDUITS RUNNING OVERHEAD INSIDE CEILING). 16. ALL 30-AMPERES CIRCUIT HOMERUN TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5mm THHN (#10 AWG), UNLESS OTHERWISE SPECIFIED ON PLANS. 17. ADDITIONAL MATERIALS SPECIFICATIONS: a. WIRES AND CABLES —PHILFLEX OR APPROVED EQUAL b. CIRCUIT BREAKER (BOLT-ON TYPE) MITSUBISHI/SQUARE D/ABB/SIEMENS CLIPSAL C-CONCEPT / NATIONAL WIDE SERIES c. WIRING DEVICES — CROWN SUPREME SCH. 40 d. POLYVINYL CHLORIDE CONDUIT (PVC) e. JUNCTION / UTILITY BOX GA.16 18. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKER. EACH PANEL WILL BE PROVIDED WITH A TYPEWRITTEN CIRCUIT DIRECTORY. 19. THE JOB SHALL BE EXECUTED IN THE MOST THROUGH PROMPT AND WORKMAN LIKE MANNER, EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICES. THE JOB SHALL BE DONE COMPLETE IN ALL ASPECTS AS REQUIRED IN PLANS AND SPECIFICATION AND READY FOR OPERATION. 20. THE DRAWING AND SPECIFICATIONS ARE INTENDED TO PRESENT A GENERAL LAYOUT AND BROAD OUTLINE AND DISTANCES OF EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE ADJUSTMENT AT THE JOBSITE AS LOCATIONS, LEVELS AND DISTANCES ARE GOVERNED BY ACTUAL FIELD CONDITIONS. 21. WIRES SHALL BE COLOR CODED: LINE 1 ----- BLACK LINE 2 ----- RED GROUND ----- GREEN 22. THERE SHALL BE ONLY ONE SERVICE DROP TO THE PROPOSED BUILDING. SECONDARY

SERVICE ENTRANCE SHALL BE 230 VOLTS, SINGLE-PHASE, 2WIRE+GROUND, 60Hz.

RESPONSIBILITY OF THE DESIGNER TO CEASED AS A WHOLE.

SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL ENGINEER AND / OR MASTER ELECTRICIAN.

23. NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF

24. ALL WEATHER-EXPOSED INSTALLATIONS SHALL USE WEATHERPROOF TYPE MATERIALS, ESPECIALLY

25. ALL EQUIPMENT WIRE, ROYAL CORDS, SPECIAL TYPE PLUGS AND RECEPTACLE AS REQUIRED

26. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED

THE DESIGNER AND THE OWNER. ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL CAUSE

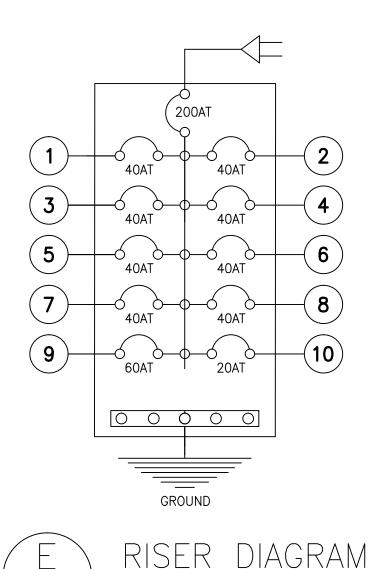
WEATHERPROOF CONVENIENCE OUTLET, CAST-BOXES, JUNCTION BOXES SUBMIT SAMPLE FOR APPROVAL.

FLOOR FINISH SCHEDULE

	SCHEDULE AND LOAD COMPUTATION									
	PB-1 TO PB-8									
NO. DESCRIPTION OUTLET VOLTS VA AMP PER PROTECTION SIZE OF WIRE PER CKT PER CONDUIT										
1	LIGHTING OUTLET	4	230	400	1.74	15 AT	2-3.50 mm² THHN CU 15mmø			
2	CONVENIENCE OULET	4	230	1440	6.26	20 AT	2-3.50 mm ² THHN CU 1-3.50 mm ² THHN CU 20mmø			
3	ACU	1	230	2760	12.00	30 AT	2-5.50 mm² THHN CU 1-5.50 mm² THHN CU (20mmø			
4	SPARE	1	230	230 0.00	0.00	20 AT	1-3.50 mm² THHN CU (
TOTAL 4,600 20.00 40 AT 2-8.0 mm² THH 4,600 20.00 40 AT 25mmø										

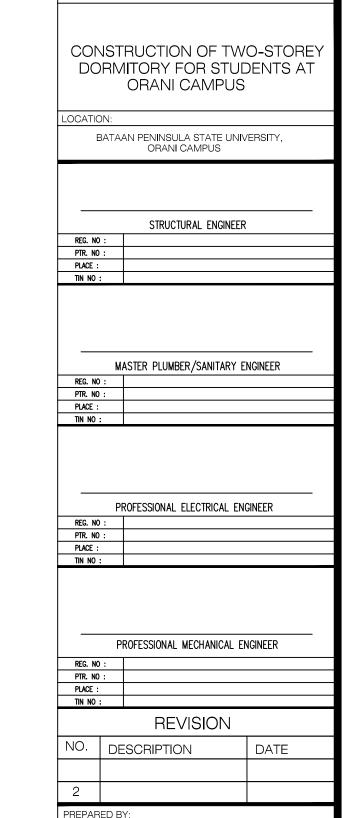
SCHEDULE AND LOAD COMPUTATION										
PB COMMON AREAS										
NO.	DESCRIPTION	SIZE OF WIRE PER CONDUIT								
1	LIGHTING OUTLET	8	230	800	3.48	15 AT	2-3.50 mm² THHN CU 15mmø			
2	LIGHTING OUTLET	8	230	800	3.48	15 AT	2-3.50 mm² THHN CU 15mmø			
3	LIGHTING OUTLET	11	230	1,100	4.78	15 AT	2-3.50 mm² THHN CU 15mmø			
4	CONVENIENCE OULET	2	230	720	3.13	20 AT	2-3.50 mm ² THHN CU 1-3.50 mm ² THHN CU (G) 20mmø			
5	CONVENIENCE OULET	2	230	720	3.13	20 AT	2-3.50 mm ² THHN CU 1-3.50 mm ² THHN CU (G) 20mmø			
6	CONVENIENCE OULET	2	230	720	3.13	20 AT	2-3.50 mm ² THHN CU 1-3.50 mm ² THHN CU (G) 20mmø			
7	SPARE	1	230	1500	6.52	20 AT	1-3.50 mm² THHN CU (G) 20mmø			
	TOTAL			6,360	27.65	60 AT	2-14 mm ² THHN CU 1-5.50 mm ² THHN CU (G) 50mmø			

SCHEDULE AND LOAD COMPUTATION										
MPB										
NO.	OUTLET CKT PER CKT PER CC									
1	PB1 PB2 PB3	1	230	4,600	20.00	40 AT	2-8.0 mm ² THHN CU 1-5.50 mm ² THHN CU (G 25mmø			
2		1	230	4,600	20.00	40 AT	2-8.0 mm ² THHN CU 1-5.50 mm ² THHN CU (G 25mmø			
3		1	230	4,600	20.00	40 AT	2-8.0 mm ² THHN CU 1-5.50 mm ² THHN CU (G 25mmø			
4	PB4	1	230	4,600	20.00	40 AT	2-8.0 mm ² THHN CU 1-5.50 mm ² THHN CU (G 25mmø			
5	PB5	1	230	4,600	20.00	40 AT	2-8.0 mm ² THHN CU 1-5.50 mm ² THHN CU (G 25mmø			
6	PB6	1	230	4,600	20.00	40 AT	2-8.0 mm ² THHN CU 1-5.50 mm ² THHN CU (G 25mmø			
7	PB7	1	230	4,600	20.00	40 AT	2-8.0 mm ² THHN CU 1-5.50 mm ² THHN CU (G 25mmø			
8	PB8	1	230	4,600	20.00	40 AT	2-8.0 mm ² THHN CU 1-5.50 mm ² THHN CU (G 25mmø			
9	PBCA	1	230	5,140	22.78	60 AT	2-14 mm² THHN CU 1-5.50 mm² THHN CU (G 50mmø			
10	SPARE	1	230	1500	6.52	20 AT	1-3.50 mm² THHN CU (G 20mmø			
TOTAL 43,440 189.3 200 AT 2-80.0 mm² THIN 65mmø										



SCALE

NTS





LEGEND

S, Sa	TUMBLER SWITCH, SINGLE POLE
Sab	TUMBLER SWITCH, 2-GANG
Sabc	TUMBLER SWITCH, 3-GANG
\$3ab	TUMBLER SWITCH, 3-WAY
\ominus	DUPLEX CONVENIENCE OUTLE

→ WPO WEATHERPROOF C.O.

ACU
O

WALL FINISH SCHEDULE

AIRCONDITIONING UNIT OUTLET
PINLIGHT WITH LED BULB
CIRCUIT HOMERUN
PANEL BOARD
WALL LIGHT

KILOWATT-HOUR METER

SERVICE ENTRANCE, 2-WIRE

TELEPHONE ENTRANCE

SERVICE ENTRANCE TO PANEL

PARTITION SCHEDULE

AR. JO-ANA Z. TANEGA

AR. ROXETTE S. UMEREZ

ARCHITECT 1, BPSU TWG

ARCHITECT 1, PPES OFFICE

AR. DANILO Y. GALURA

ARCHITECT II, TWG CONSULTANT
RECOMMENDED BY:

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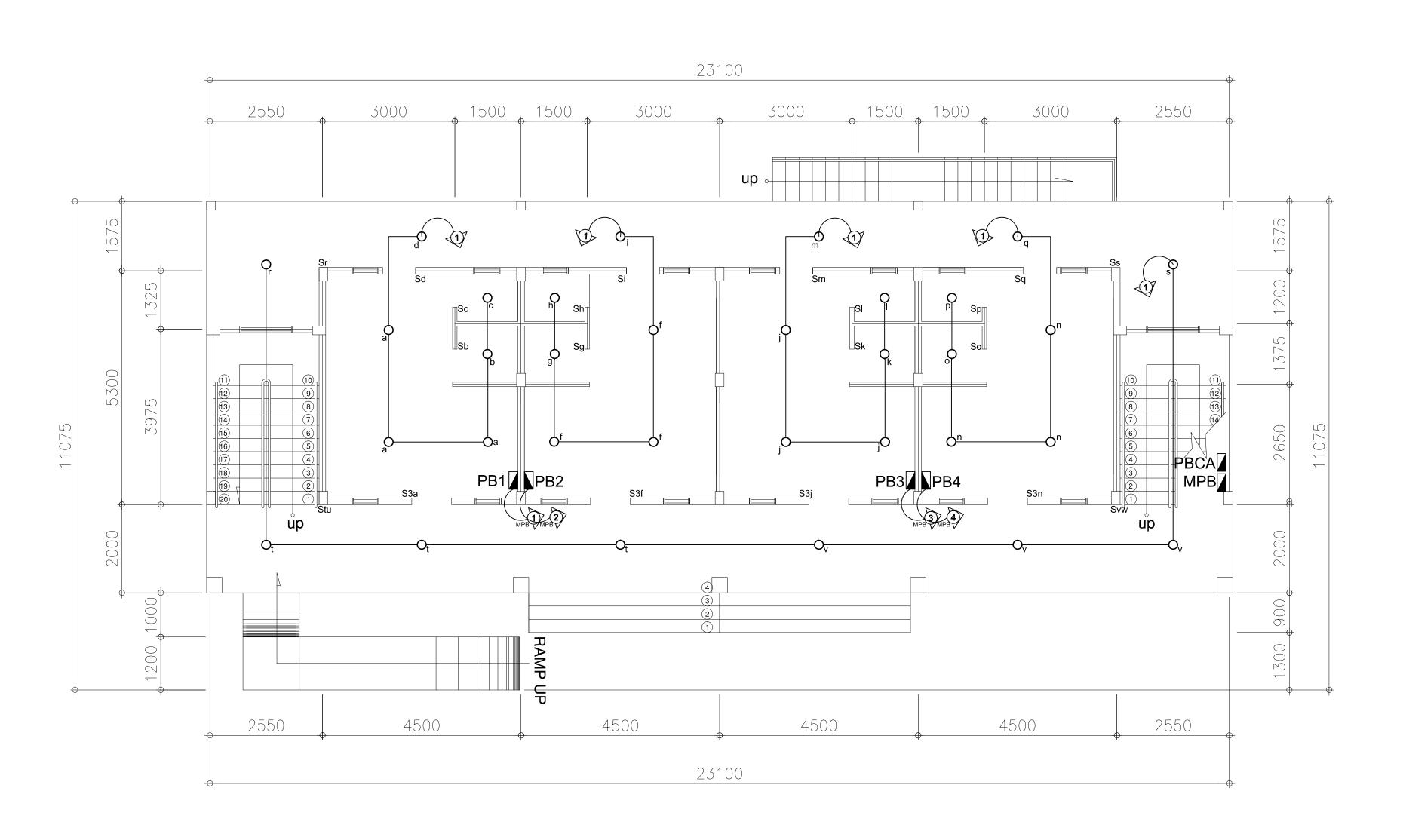
PTR. NO :

PLACE :

DR. EDMUNDO C. TUNGOL VICE PRESIDENT ADMIN. & FINANCE

APPROVED BY:

DR. GREGORIO J. RODIS POLISHED CONCRETE EXPOSED AGGREGATES RESIN 3000 WITH SEALER F-2 POLISHED CONCRETE SALT AND PEPPER RESIN 3000 WITH SEALER REPUBLIC ACT 9266. F-33000 X 3000 & 3000 X 6000 CERAMIC TILES NON-SKID F-4 SMOOTH FINISH CEMENT WITH WATER-PROOFING REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION ALL DRAWINGS ARE TO BE RETURNED WHEN NO LONGER IN USE, GENERAL ELECTRICAL NOTES & SPECIFICATION SCHEDULE AND LOAD COMPUTATION BATAAN PENINSULA STATE UNIVERSITY LEGEND CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN, E-MAIL: bpsu.twginfra2016@gmail.com/ bpsuppes2017@gmail.com TELEPHONE NO. : (047) 237-15-98





AND THE CHARGE OF THE STATE OF
PENINSULA STATE UNIVERS L WORKING GROUP FOR INFRASTRUCTU

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BATAAN F TECHNICAL	PENINSULA STATE UNIVERSITY WORKING GROUP FOR INFRASTRUCTURE							F2
	MPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN, su.twginfra2016@gmail.com/ bpsuppes2017@gmail.com TELEPHONE NO. : (047) 237–15–98							

CONSTRUCTION OF TWO-STOREY DORMITORY FOR STUDENTS AT ORANI CAMPUS

BATAAN PENINSULA STATE UNIVERSITY, ORANI CAMPUS

STRUCTURAL ENGINEER

MASTER PLUMBER/SANITARY ENGINEER

PROFESSIONAL ELECTRICAL ENGINEER

PROFESSIONAL MECHANICAL ENGINEER

REVISION

AR. ROXETTE S. UMEREZ

ARCHITECT 1, BPSU TWG

AR. JO-ANA Z. TANEGA

ARCHITECT 1, PPES OFFICE

AR. DANILO Y. GALURA ARCHITECT II, TWG CONSULTANT

DR. EDMUNDO C. TUNGOL VICE PRESIDENT ADMIN. & FINANCE

DATE

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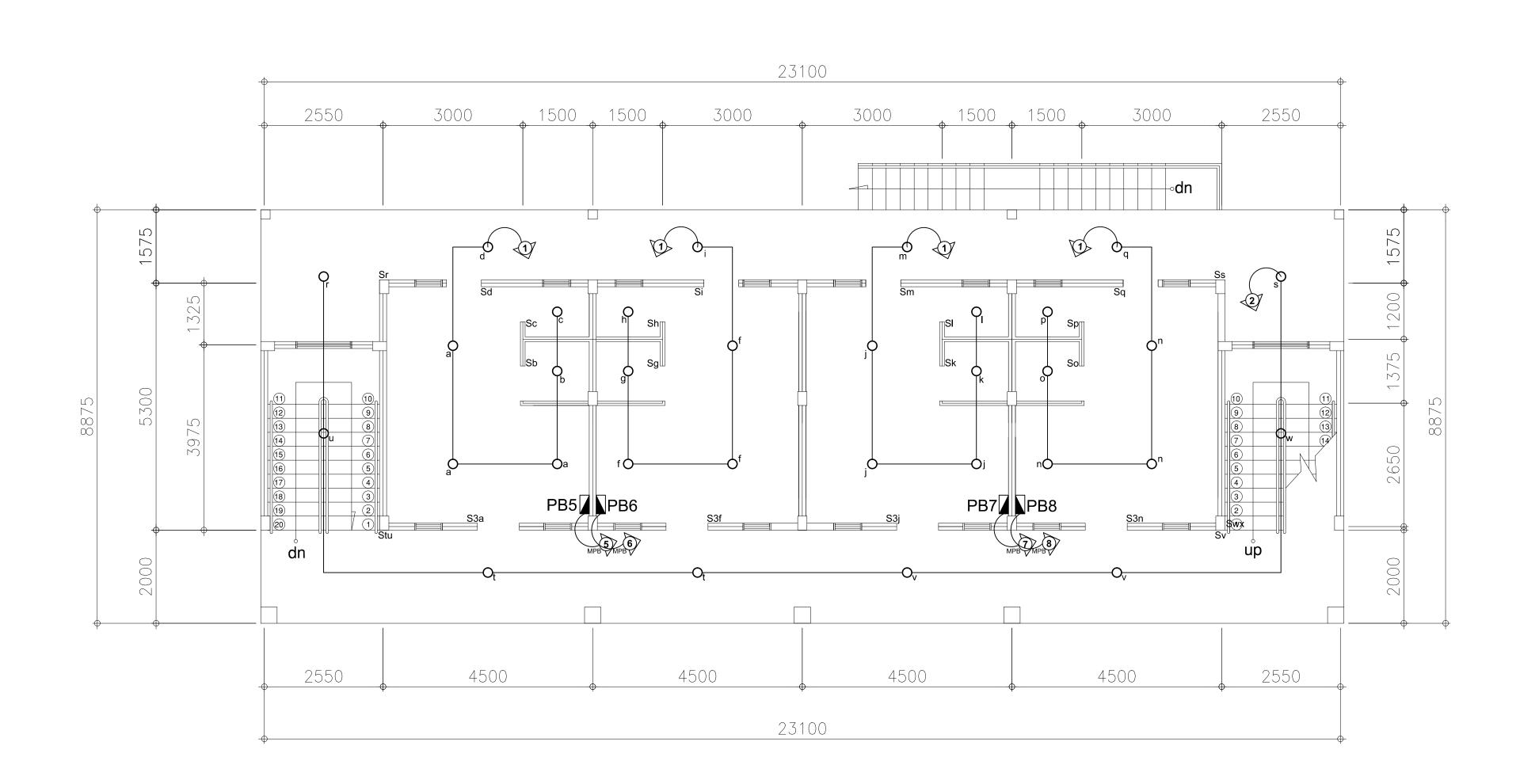
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ASULA STAZ		FLOOR FINISH SCHEDULE	WALL FINISH SCHEDULE	PARTITION SCHEDULE	DR. GREGORIO J. RODIS
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BATAAN PENINSULA STATE UNIVERSITY TECHNICAL WORKING GROUP FOR INFRASTRUCTURE					F3
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REVIEWED BY:

RECOMMENDED BY:

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