



POLYTECHNIC UNIVERSITY OF THE PHILIPPINES  
COLLEGE OF ENGINEERING  
**COMPUTER ENGINEERING DEPARTMENT**

PUP  
2016

Campus Development Plan

2012 –

## Preface

### *Message from the President*

Warmest greetings to all!

First of all I would like to welcome you in PUP, our *Sintang Paaralan*. Congratulations for now you are all *Iskolar ng Bayan!* I myself was once a student of this beloved university and I know what you are feeling right now. The excitement coupled with nervousness and some sorts of anxiety are just natural feelings which will soon be transformed, hopefully, to a passion to be avid seekers of truth and students of life and society who work for my vision of an epistemic community.

I would like to reiterate that a liberal atmosphere exists in the university, wherein ideological, political, cultural and religious beliefs are upheld and respected. I also encourage everybody to join any student organization that you like but such undertakings must neither interfere with nor be a reason to neglect your studies and other academic pursuits.

As a leader of a new administration, I pledge meaningful changes for the betterment of the academic community. For the coming months and years to come, you will be a witness to a new PUP, wherein, all, including you the students, faculty members, employees, the alumni and all the stakeholders of this university will be very proud of. But, I would like to request that like any member of the academic community today, you should study my 8-point Agenda so that you can help me in guiding and leading the university. I need all the support that I can get for transforming PUP into an epistemic community or a network of knowledge-based experts who help decision makers define the problems they face, identify various policy solutions and assess the outcomes.

Again, congratulations and welcome to PUP. God bless us all.

**Emanuel C. De Guzman, Ph.D**  
PUP President



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2012 - 2016

## Executive Summary

The Polytechnic University of the Philippines (PUP) has a rich and impressive history as one of the country's most dynamic educational institutions because of the academic excellence it brings, in terms of academic programs, creative collaborations, and facilities. To build upon this tradition, and to forge an even stronger institution in the years ahead, the University takes the step to update the existing Campus Development Plan of 2012-2016.

### I. Project Mandate

In 2009, Physical Planning and Development Office was tasked to review and update the Campus Development Plan which originally completed in 2007. The mandate included the following:

- Linking the Vision of the University to the expected updated Campus Development Plan.
- Assessing internal and external drivers shaping the environment in which PUP operates and recognizing these impacts on the Campus Development Plan.
- Identify academic directions/ impacts/ growth factors and accompanying capacities/ opportunities/ limitations and identify critical pressure points.
- Recommendations regarding a four-year term development strategy.
- Update the existing Campus Plan design guidelines.
- Develop landscape guidelines.

### II. Planning Process

The broader interests of University Community were considered in the update of the plan. Each of the four (4) areas addressed specific concerns in the Campus Development Plan.

- Area 1: Project Charter identifies the objectives and constraints of the project itself and provides common understanding for all participants about project deliverables, line of communications and expectations from stakeholders.
- Area 2: Project Parameters addresses the long term environmental framework for PUP and its expected impacts on the Campus Plan. It identifies the need

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for PUP to respond to new challenges, funding and growth as well as new opportunities and expectations regarding PUP's role in becoming a "Total University" supplementing its community with the emerging knowledge based economy. Guiding principles for campus development establish a framework for long term development.

- Area 3: Foundations and Guidelines develop specific recommendations regarding the physical development of the campus that will help enable PUP to achieve its institutional objectives without compromising the scale and character of the existing campus. It addresses all aspects of campus development including projected space needs and the functional and physical state of existing campus facilities.
- Area 4: Campus Development Concepts builds on ideas and guidelines developed in previous working papers to show a series of visual graphics the long-term development of the campus. It analyzes two distinct approaches; one based on the existing development pattern and one based on a more consolidated density and recommends the latter approach. It also provides and update of the existing Design Guidelines and provides detailed landscape guidelines for future development.

### III. Key Findings and Recommendations

The updated Campus Development Plan for PUP makes the following findings and recommendations for the campus development of the University in the next five years:

- PUP will need to develop the appropriate infrastructure including research facilities, housing for undergraduate and graduate students, facilities for new approved programs such as college buildings, recreational and sports facilities.
- The Campus calls for improvement of physical facilities such as improvement of classroom and areas inside the campus as landscaping and all the elements encompassing landmarks and certain areas of the University.



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## PUP : On Years Ahead

### Implementation Plan

#### Four – Year Term Campus Development Plan

In support to transform into an “epistemic university” and to significantly improve the quality of education even more in Polytechnic University of the Philippines, the University board and administration has provide a development plan for the coming 4 year-term of the Campus for 2012-2016 from Main Campus, the Mabini and to all PUP Branches. It is composed mainly of Campus site development, construction of new facilities and repair and rehabilitation of facilities. The University Four – Year Campus Development Plan encompasses the **Prioritized Projects** of the University.

#### Prioritized Project

2012			
No.	Project Title	Location	Amount Php
1	Repair/Rehabilitation of Main Academic Building	Mabini Campus	Php 44M
2	Repair/Rehabilitation of Gymnasium	Lopez Campus	Php 5M
3	Repair/Rehabilitation of Track Oval, Swimming Pool, Tennis Court and Fountain	Mabini Campus	Php18M
4	Repair/Rehabilitation of Bonifacio Hall, 2 <sup>nd</sup> & 3 <sup>rd</sup> Floor Sampaguita Bldg. and Conversion of Comfort Room to Student Canteen	Mabini Campus	Php 8M
2013			
5	Repair/ Rehabilitation of Main Academic Building Phase 2	Mabini Campus	Php 6M
6	Proposed Redevelopment of Lagoon Phase I	Mabini Campus	Php 10M
7	Repair/Rehabilitation of Various Offices& Buildings	Mabini Campus	Php 1.8M
2014			
8	Repair/ Rehabilitation of Track Oval Phase II	Mabini Campus	Php 20M
9	Repair/Rehabilitation of College of Engineering and Architecture Building (Roofing & Plumbing System)	Mabini Campus	Php 15M

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10	Repair/Rehabilitation of Ground Floor Sampaguita Canteen Phase II	Mabini Campus	Php 10M
11	Proposed Redevelopment of Lagoon Phase II	Mabini Campus	Php 6M
12	Repair/Rehabilitation of P.E. Building (Roofing, Ceiling and Comfort Rooms M/F)	Mabini Campus	Php 10M
13	Proposed Elevated Walkway Phase I	Mabini Campus	Php8M
14	Proposed Hasmin Hostel (Dormitory) Phase I	Mabini Campus	Php20M
15	Proposed Academic Building Phase I	Mabini Campus	Php40M
16	Proposed Upgrading of ICTC Phase I	Mabini Campus	Php25M
17	Repair/Rehabilitation of Various Branches Phase I	PUP Branches	Php80M
18	Proposed 6 Storey Laboratory Building with Equipment Phase I	Mabini Campus	Php50M
19	Proposed 6 Storey Academic Building Phase I	Mabini Campus	Php30M
20	Proposed High School Building (4 Storey) Phase I	Mabini Campus	Php40M
21	Proposed Solar Power Roofing Phase I	Mabini Campus	Php40M
22	Proposed Natural Gas Building with Equipment Phase I	Taguig Campus	Php20M
23	Repair/Rehabilitation of Building 2 PUP Condotel Phase I	NDC/Bonfacio Campus	Php40M
24	Proposed Construction of 6 Storey Building (Antique House) Phase I	NDC/Bonfacio Campus	Php40M
25	Proposed Landscaping of PUP Main Campus	Mabini Campus	Php20M
<b>2015</b>			
26	Repair/Rehabilitation of Gymnasium Phase II	Lopez Campus	Php 5M
27	Repair/Rehabilitation of Two-Storey P.E. Building	Mabini Campus	Php 10M
28	Repair/Rehabilitation of NALLRC Building	Mabini Campus	Php 10M
29	Repair/Rehabilitation of Various School Buildings	PUP Branches	Php 20M
30	Site Development – Street/Outdoor Lighting	Mabini Campus	Php 5M
31	Proposed Elevated Walkway Phase II	Mabini Campus	Php6M
32	Proposed Hasmin Hostel (Dormitory) Phase II	Mabini Campus	Php15
33	Proposed Academic Building Phase II	Mabini Campus	Php30M
34	Proposed Upgrading of ICTC Phase II	Mabini Campus	Php25M
35	Repair/Rehabilitation of Various Branches Phase II	PUP Branches	Php60M
36	Proposed 6 Storey Laboratory Building with Equipment Phase II	Mabini Campus	Php50M
37	Proposed 6 Storey Academic Building Phase II	Mabini Campus	Php19M
38	Proposed High School Building (4 Storey) Phase II	Mabini Campus	Php30M
39	Proposed Solar Power Roofing Phase II	Mabini Campus	Php40M
40	Proposed Natural Gas Building with Equipment Phase II	Taguig Campus	Php20M
41	Repair/Rehabilitation of Building 2 PUP Condotel Phase II	NDC/Bonfacio Campus	Php30M
42	Proposed Construction of 6 Storey Building (Antique House) Phase II	NDC/Bonfacio Campus	Php40M
43	Repair/Rehabilitation of Main Library	Mabini Campus	Php80M
44	Repair/Rehabilitation of Classroom (Installation of Aircon)	Mabini Campus	Php50M
45	Proposed Site Redevelopment of PUP Main Campus	Mabini Campus	Php20M

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46	Proposed PUP Printing Press Building (2 Storey)	Mabini Campus	Php30M
47	Proposed Construction of PE Building (4 Storey)	Mabini Campus	Php50M
48	Repair/Rehabilitation of Football Field	Mabini Campus	Php30M
<b>2016</b>			
49	Proposed Science and Technology Building Phase 1	Mabini Campus	Php 45M
50	Repair/Rehabilitation of Various School Buildings	PUP Branches	Php 20M
51	Site Development	Mabini Campus	Php 15M
52	Repair/Rehabilitation of Various School Buildings	Manila Campus	Php 15M
53	Proposed Elevated WalkwayPhase III	Mabini Campus	Php6M
54	ProposedHasmin Hostel (Dormitory) Phase III	Mabini Campus	Php15M
55	Proposed Academic Building Phase III	Mabini Campus	Php30M
56	Repair/Rehabilitation of Various Branches Phase III	PUP Branches	Php60M
55	Proposed 6 Storey Laboratory Building with Equipment Phase III	Mabini Campus	Php50M
57	Proposed 6 Storey Academic Building Phase III	Mabini Campus	Php19M
58	Proposed High School Building (4 Storey) Phase III	Mabini Campus	Php30M
59	Proposed Solar Power Roofing Phase III	Mabini Campus	Php40M
60	Proposed Natural Gas Building with Equipment Phase III	Taguig Campus	Php10M
61	Repair/Rehabilitation of Building 2 PUP Condotel Phase III	NDC/Bonfacio Campus	Php30M
62	Proposed Construction of 6 StoreyBuilding (Antique House) Phase III	NDC/Bonfacio Campus	Php40M
63	Proposed Construction of College of Law Building	Mabini Campus	Php50M
64	Proposed Construction of Open University Building	Mabini Campus	Php50M

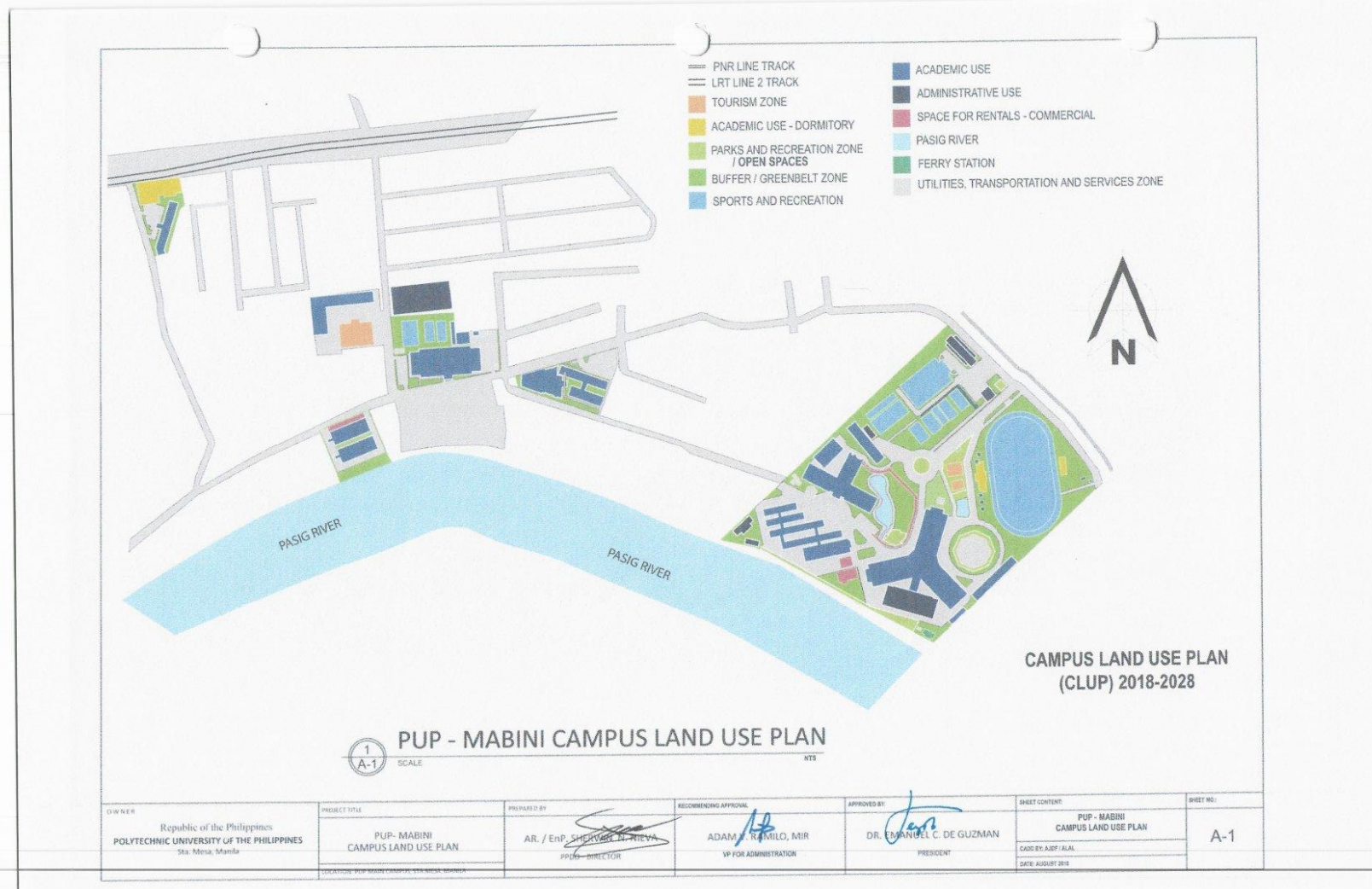
Figure 3.1. The table shows the list of Projects of PUP from year 2012 to 2016 with the assigned budget for each project Source:PUP DATA

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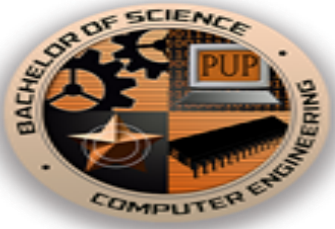
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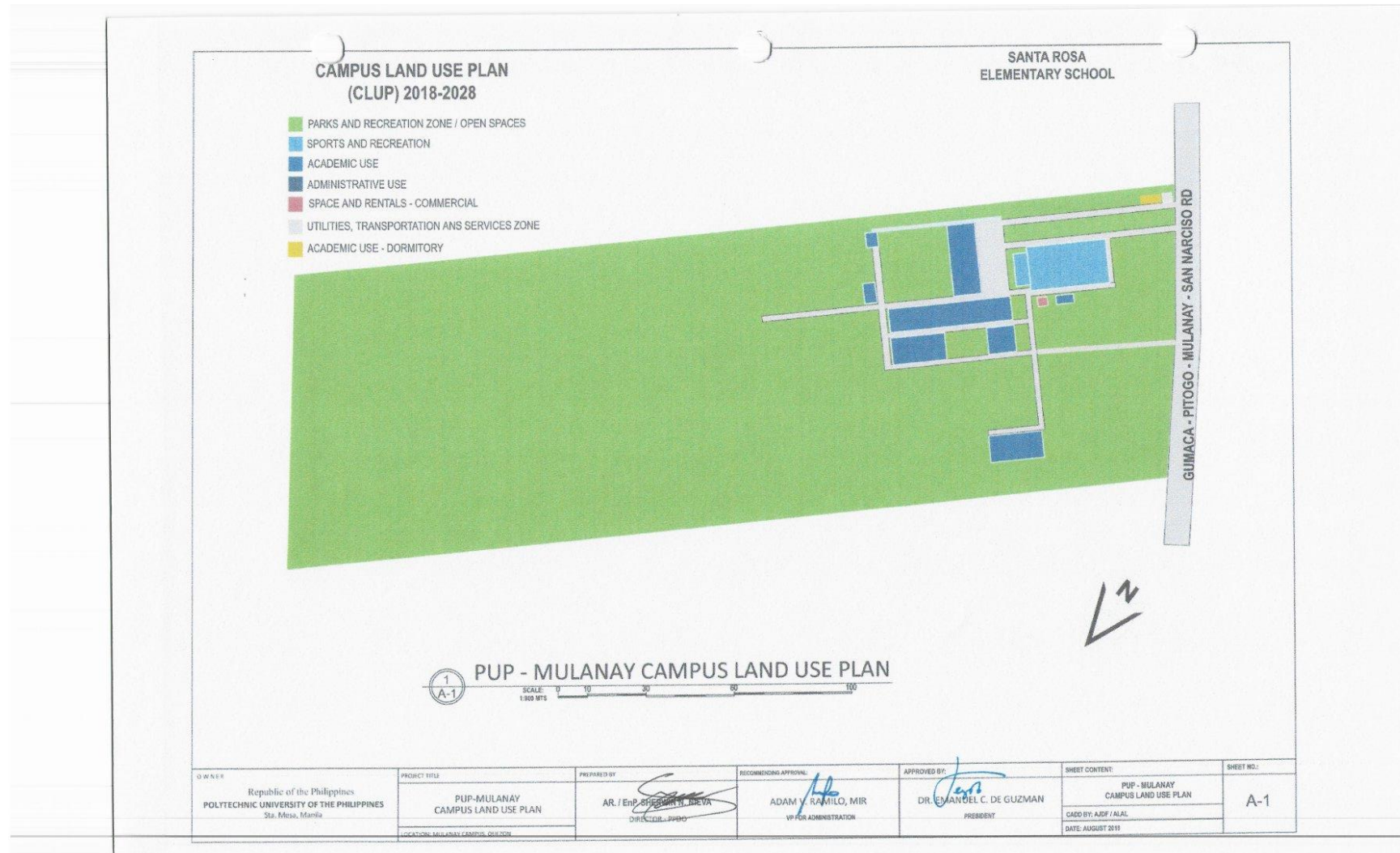
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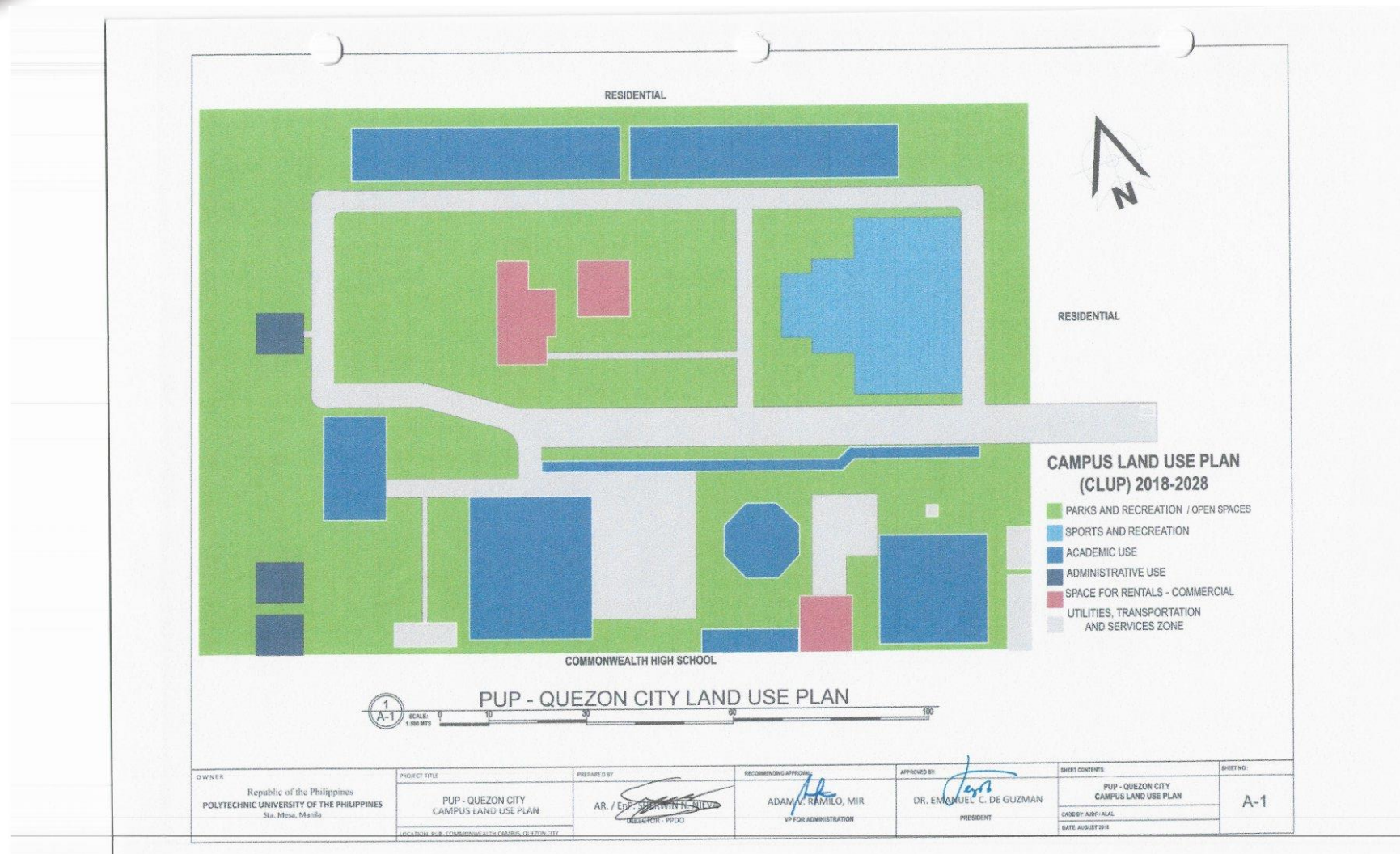


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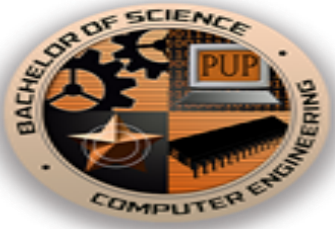


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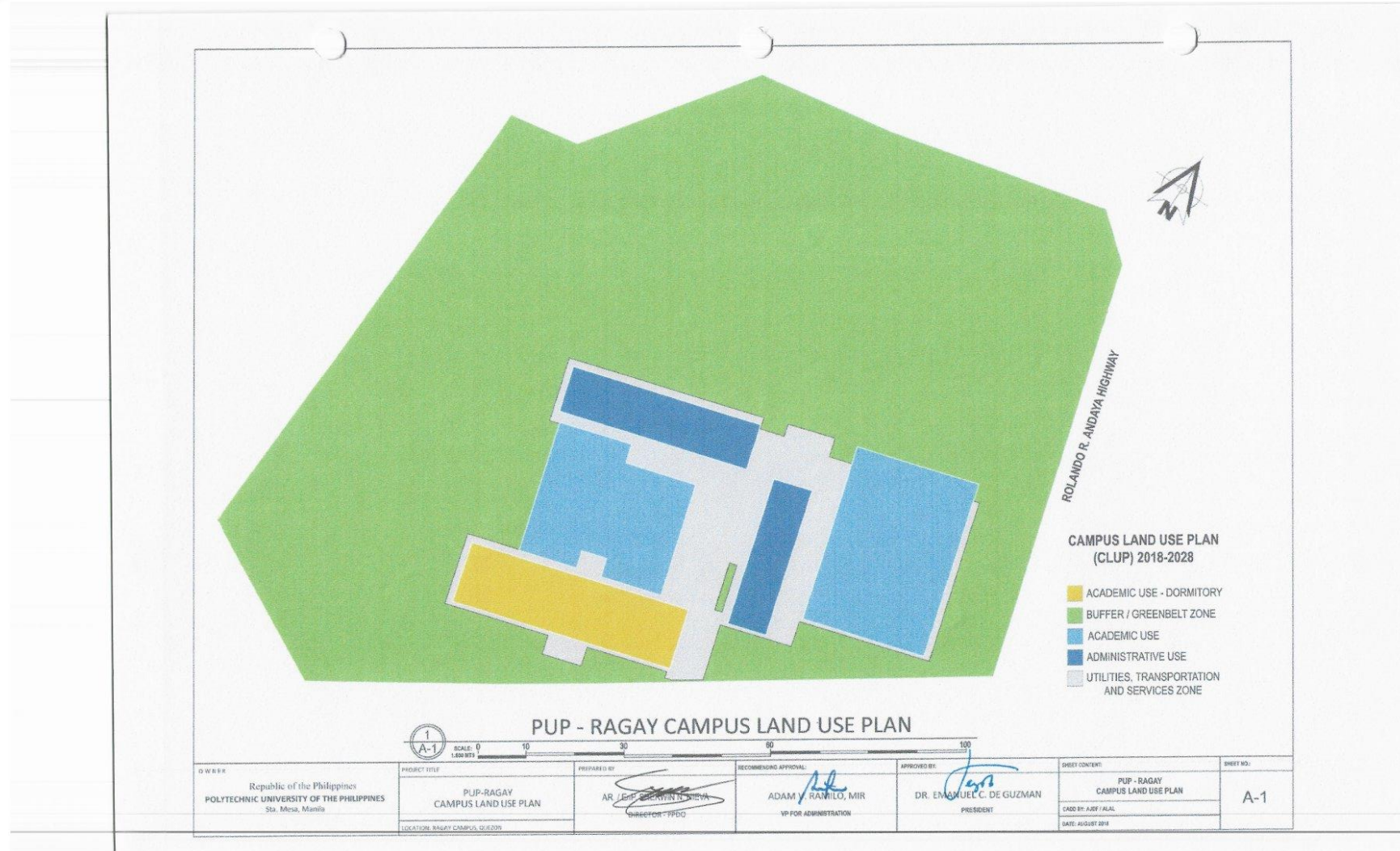


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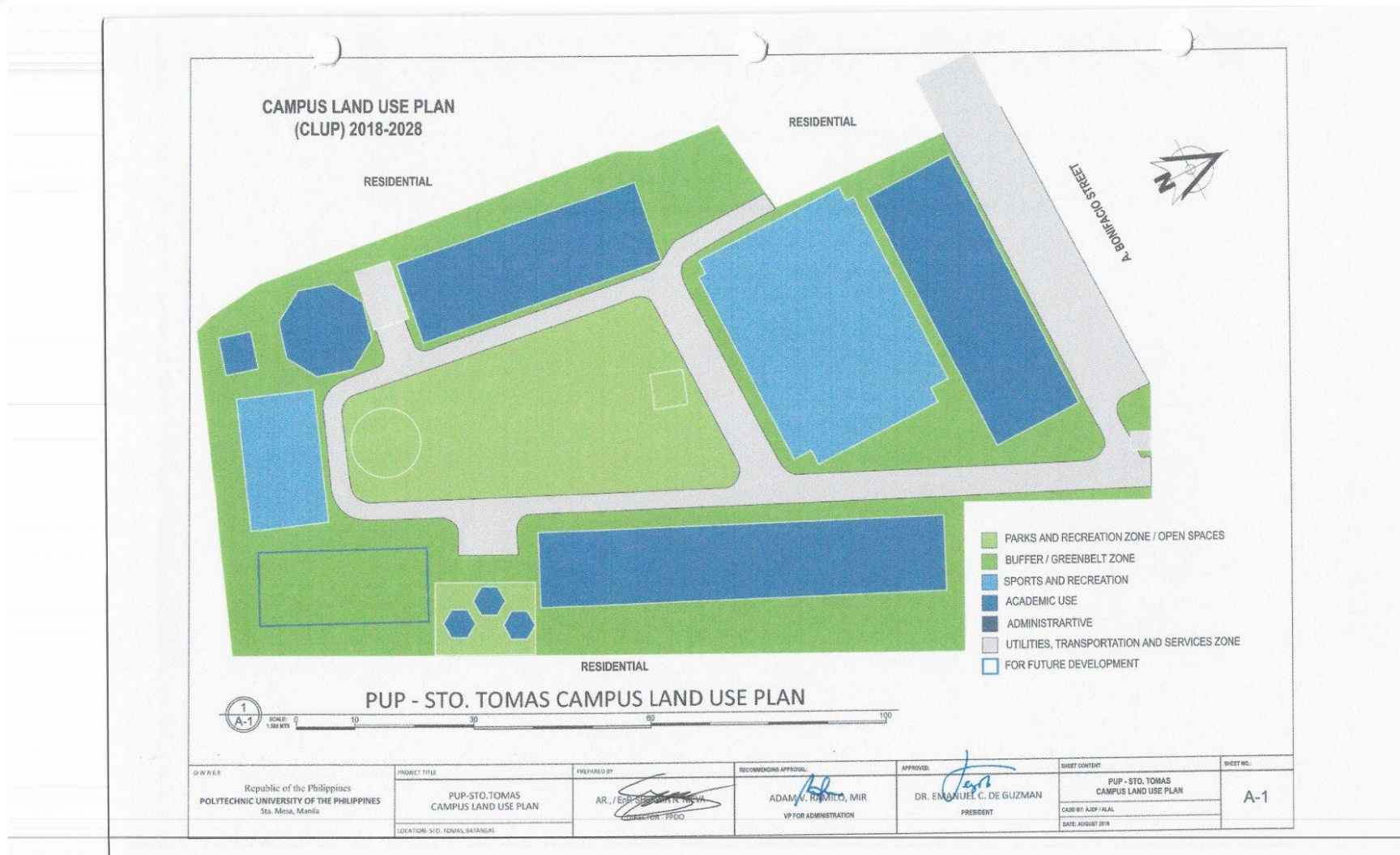


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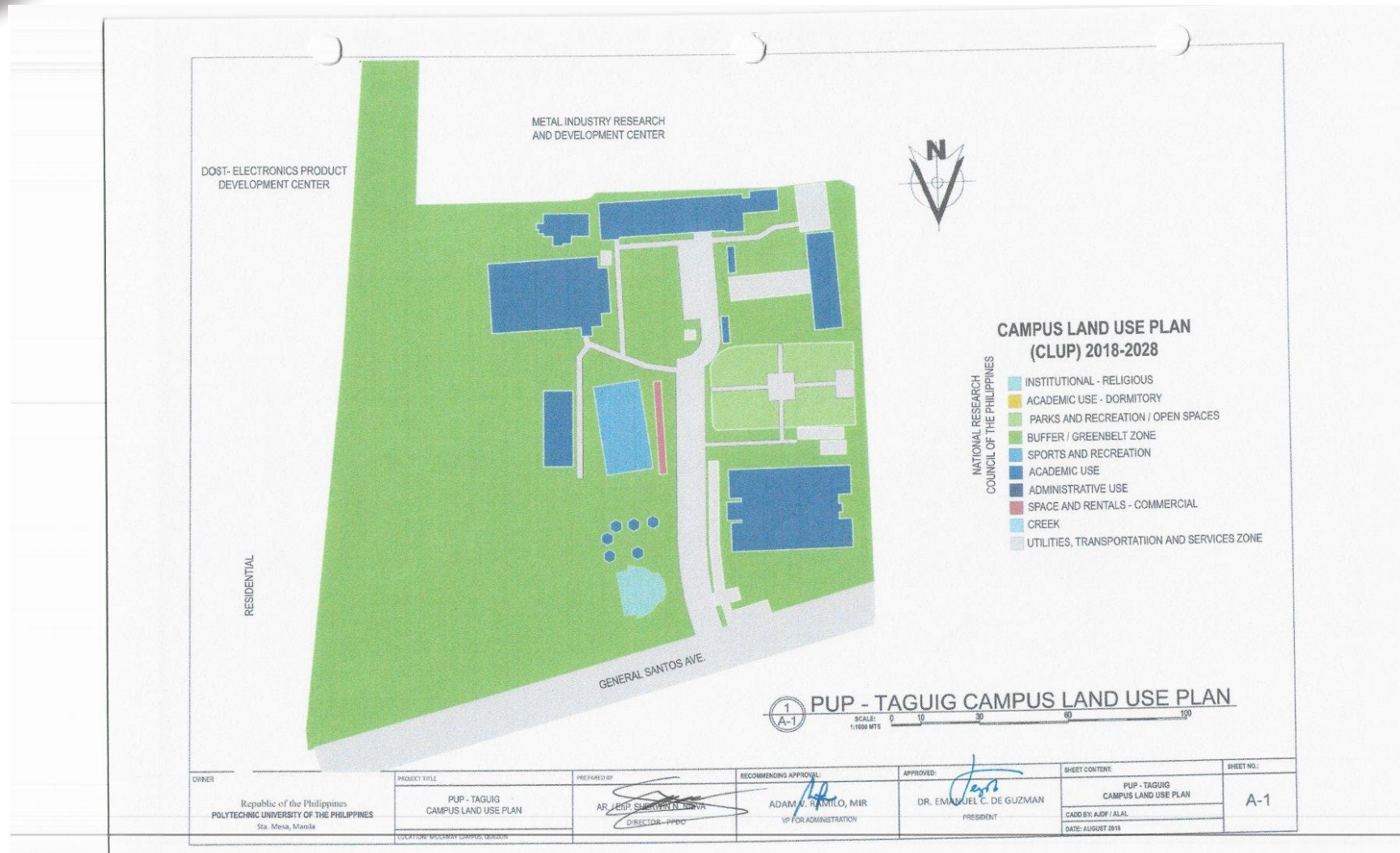


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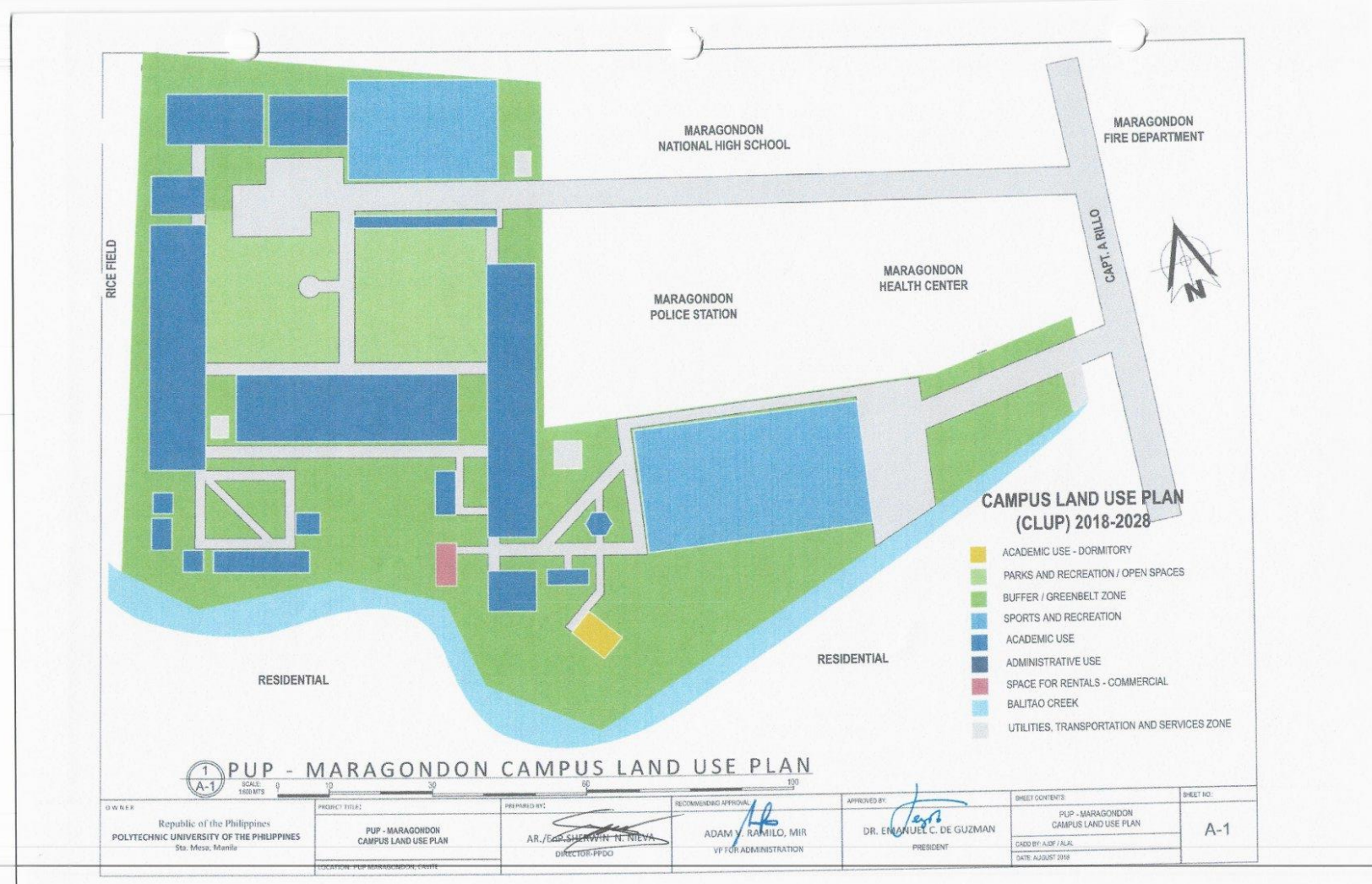


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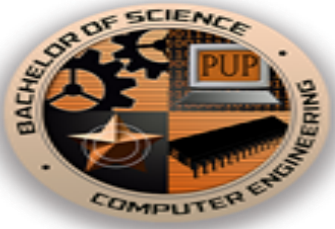
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**AGENDA 4** Modernizing and Upgrading of Information and Communication Technology Services, Physical Facilities, Equipment, Library and Campus Development

Performance Indicator	Strategies/Programs/Activities	Concerned Office(s)	Time Frame
<p><b>OBJECTIVE:</b></p> <p>To expand state-of-the-art campus development programs</p>	<p>Recommend construction of Fitness Room/Weights Room and purchase of state-of-the-art weights equipment to further enhance the fitness status of the clientele (student-athletes, coaches, administrative employees, faculty members, and officials)</p> <p>Conduct benchmarking/educational tour/ocular inspection to various fitness industries within National Capital Region</p> <p>Collaborate with PPDO as to the preparation of Proposed Fitness Room/Weights Room floor plan design</p> <p>Recommend construction of SDPO Property/ storage room to maintain up keep the sports supplies and equipment</p> <p>Recommend construction of Beach Volleyball court and Archery Range. Renovation of Grandstand. Siphoning/waste drainage excavation.</p>	<p>OEVP (SDPO) OVPA (PPDO)</p>	<p>January - December</p>
<p>To utilize ICT facilities/equipment to enhance the overall operations of the University</p>	<p>Improvement of the University network infrastructure capability and System of Operations:</p> <p>Procurement of new SIS system</p> <p>Development of Financial Management Information System</p> <p>Development of Faculty, students, and employees portal</p>		

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	Performance Indicator	Strategies/Programs/ Activities	Concerned Office(s)	Time Frame
<p><b>OBJECTIVE:</b> To utilize ICT facilities/equipment to enhance the overall operations of the University</p>	<p>&gt; Improved ICT network infrastructure capability by 2020</p>	<p>Development of Research Management Information System Procurement of RFID gate pass Improvement of structured cabling Procurement of Redundant/additional/ Backup internet connection 50Mbps Procurement of Redundant/Backup ISDN (additional 30lines) Procurement of additional IP phones Procurement of Spare wireless equipment for remote offsite campus connectivity Installation of Mabini Campus-wide Wi-fi connectivity and bandwidth requirements Renovation/rehabilitation of the ICTO physical facilities Proposed updated ICTO Disaster Recovery Plan (DRP) Upgrade servers, computers, network interbuilding connectivity and data storage Procurement of the Off-the-shelf software (Adobe Cloud, CAD, and Antivirus)</p>		
<p>To modernize , upgrade existing facilities and purchase new ones</p>	<p>100% of the facilities/equipment acquired results to high satisfaction levels in the next three (3) years</p>	<p>Quality facilities and equipment for records, training and performances through records/documents digitization</p>	<p>OEVP OVPSAS OVPA OVPF</p>	

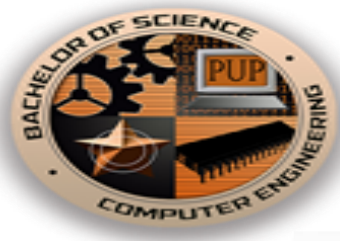


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Performance Indicator	Strategies/Programs/Activities	Concerned Office(s)	Time Frame
<b>OBJECTIVE:</b> To modernize , upgrade existing facilities and purchase new ones  To strengthen use of technology to improve administrative efficiency and effectiveness  Information Systems for the effective and efficient operations of the offices under OVPA developed within the next three (3) years	> 100% of the facilities/ equipment acquired results to high satisfaction levels in the next three (3) years	Process animation design of request and effective queuing device from application to releasing  Improvement of Tanghalang PUP and rehabilitation of PUP Antique House  Construction of Testing and Counselling Rooms	OVPSAS, OEVP  UCCA Appropriate PUP Offices  OVPSAS OVPA  2018  2018 -2020  2018  2018-2020
	> An Integrated Computerized Records Management System	<b>DIGITIZATION PROJECT</b> <b>Program:</b> Improvement of the Software and Hardware equipment and furniture of the CRS <b>Activities:</b> Coordination with the ICTO and IT experts Acquisition of new Equipment Acquisition of Digitization Request for the design of the Physical layout of the receiving and releasing area and for the computers for easy access of digitized records Re-tooling/Training of existing Personnel to serve as <ul style="list-style-type: none"> <li>• Groomer - Classification and sorting</li> <li>• Scanner - operator</li> <li>• Indexer - encoder of the data</li> <li>• Filer - files the output</li> </ul> Hire additional Manpower (on job order basis)	OVPA, OEVP  2018-2020





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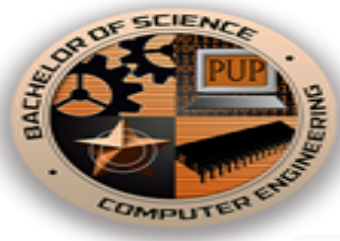
OBJECTIVE:	Performance Indicator	Strategies/Programs/ Activities	Concerned Office(s)	Time Frame
<p>To strengthen use of technology to improve administrative efficiency and effectiveness</p> <p>Information Systems for the effective and efficient operations of the offices under OVPA developed within the next three (3) years</p>	<ul style="list-style-type: none"> <li>&gt; A visitor-friendly campus location finder system developed within 2018</li> <li>&gt; Hasmin Hostel Room Reservation and Accommodations System for MHDPC</li> <li>&gt; Job Order and Client feedback form, materials and Reporting for MHDPC</li> <li>&gt; Supplies Inventory Management System (SIMS)</li> <li>&gt; Property Inventory Management System (PIMS)</li> <li>&gt; Procurement Management System (PMS)</li> <li>&gt; UCS Ordering and Cashiering Reporting System</li> <li>&gt; Computerized Transportation Requests and Scheduling System</li> <li>&gt; Job Order Implementation Monitoring and Construction Supplies Inventory – System</li> <li>&gt; Records Storage and Retrieval System for Medical Services Department developed within 2018</li> </ul>	<p>Computerization of records</p> <ul style="list-style-type: none"> <li>• Set meeting with ICTO for the drafting of Technical specifications / TOR</li> <li>• Seek approval of the Technical specifications / TOR</li> <li>• Development of the System</li> <li>• Procurement of needed office and IT equipment</li> <li>• Deployment and Implementation of the System</li> </ul>	<p>OVPA, OEVP</p>	<p>2018 – 2019</p>



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**AGENDA 4** Modernizing and Upgrading of Information and Communication Technology Services.  
 Physical Facilities, Equipment, Library and Campus Development

	Performance Indicator	Strategies/Programs/ Activities	Concerned Office(s)	Time Frame
<b>OBJECTIVE:</b> To implement with vigor the University's zero Waste Management Program	> Policy and Guidelines revised in 2018	Awareness and support mobilization campaign	OVPA, OVPF	Re-composition of Committee by Jan-March 2018
	> 50% implementation of the Zero waste management Program by 2019	Community extension for livelihood projects Generate materials which are recyclable		Revisit / Review of guidelines by January-March 2018
	> Full implementation of the zero waste management Program by 2020	Installation of Material recovery facility (MRF) for the recycling of campus solid waste		Partial Implementation by 2019 Full Implementation by 2020
To consider and respond to the needs of the employees	> Maximize the services offered by the Land Bank of the Philippines	Organize Financial Literacy Seminar/s for university employees in cooperation with the Land Bank of the Philippines with regard to the services they offer	OVPF/ FMO	May 2018
To have a clean, safe and well-maintained office environment	> Improvement of office facilities	Minor repairs in the offices Acquire shelves for the storage rooms Convert portion of the Student Services Section into a storage area	University-wide	May 2018



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**AGENDA 4** Modernizing and Upgrading of Information and Communication Technology Services, Physical Facilities, Equipment, Library and Campus Development

	Performance Indicator	Strategies/Programs/Activities	Concerned Office(s)	Time Frame
<b>OBJECTIVE:</b> To start up an open library system to complement an upgraded e-library	> 25% increase yearly purchase/procurement of up-to-date and adequate collection of books	Procure up-to-date bookholdings Review the procurement law/process employed in the purchase of learning resources (print and non print) in the university and list down all sources / would-be causes of delays in each of the modes of procurement Conduct regular coordination meetings to address pre-procurement/ procurement problems Clearly identify duties and responsibilities of each of the offices / units involved in the procurement process	Colleges, NALRC, BAC, Procurement Office	2018-2020
	> Active annual subscription of e-journals	Identify and procure subscription to national and international journals both print and non print.		
	> 1 Laboratory room comply with standards as an assessment center	Forge MOA/MOU with TESDA and DICT to be an assessment center Identify the requirements to be an assessment center		
	> A minimum of 50 programs utilizing ICT infrastructure	Set up Wi-fi network infrastructure within the Campus Disseminate available ICT resources to faculty, students and staff.		
	> 100% of faculty and staff are involved in training activities in the use of ICT technologies (computer, software, video, etc.)	Train faculty, students and staff in the use of ICT technologies. Require faculty and staff to attend ICT training activities Publish policies and guidelines on the use of ICT		



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Physical Facilities, Equipment, Library and Campus Development

	Performance Indicator	Strategies/Programs/ Activities	Concerned Office(s)	Time Frame
<b>OBJECTIVE:</b> To start up an open library system to complement an upgraded e-library	> 100% of faculty and students are using e-journals and e-books	Furnish each college with list of existing and newly-acquired book holdings and journals.  Require faculty and students to use e-journals and e-books  Tap free e-book providers to enrich materials for Instruction.  Encourage faculty to develop learning modules as supplement in instruction.		
	> A minimum of 10 learning technology hubs	Provision of learning technology hubs in the library  Building of digital learning rooms (e-classroom) equipped, among others, with video-conferencing facilities  Upgrading present library information system		
	> 50% of courses using current and emerging technology	Encourage faculty to use current and emerging technologies in delivering instruction.  Conduct orientation program, hands-on training to develop interest and skills for using new ICT tools		





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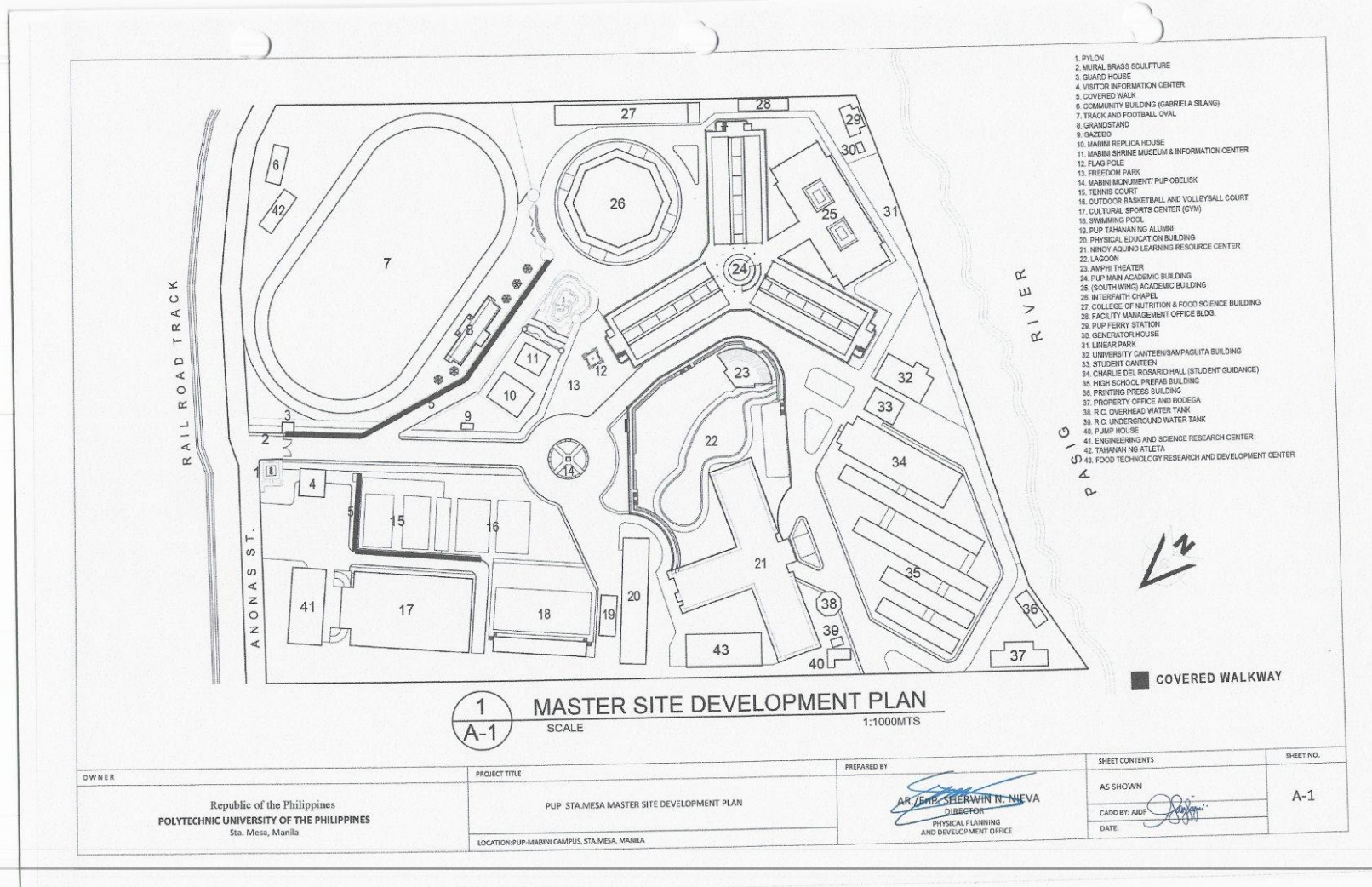
**AGENDA 4** Modernizing and Upgrading of Information and Communication Technology Services, Physical Facilities, Equipment, Library and Campus Development

	Performance Indicator	Strategies/Programs/ Activities	Concerned Office(s)	Time Frame
<p><b>OBJECTIVE:</b></p> <p>To maximize delivery of programs through the use of ICT</p> <p>To integrate appropriate ICT with instruction, research, production and community service</p>	<p>&gt; 25% increase in the number of ICT-enabled laboratory classrooms</p>	<p>Purchase of audio-visual equipment such as LED TV, sound systems, and projectors</p> <p>Install of audio-visual equipment in classrooms and laboratories.</p> <p>Install electrical outlets in classrooms to accommodate students who bring their own devices for academic purposes.</p> <p>Acquire software for instructions and research activities</p> <p>Form academe-industry alliance to update and utilize current and emerging technologies</p> <p>Solicit industry support for free use of licensed software for academic purposes</p> <p>Utilize open source technologies to augment high cost of proprietary software</p> <p>Increase in computer : student ratio per laboratory room</p> <p>Request additional classrooms and laboratory rooms</p>		
<p>To improve library spaces, function areas and e-resource center</p>	<p>&gt; 80% improvement on the physical make up of audio-visual rooms and e-resource centers</p>	<p>Request additional resources to improve physical make-up of audio-visual rooms and e-resource centers.</p>		





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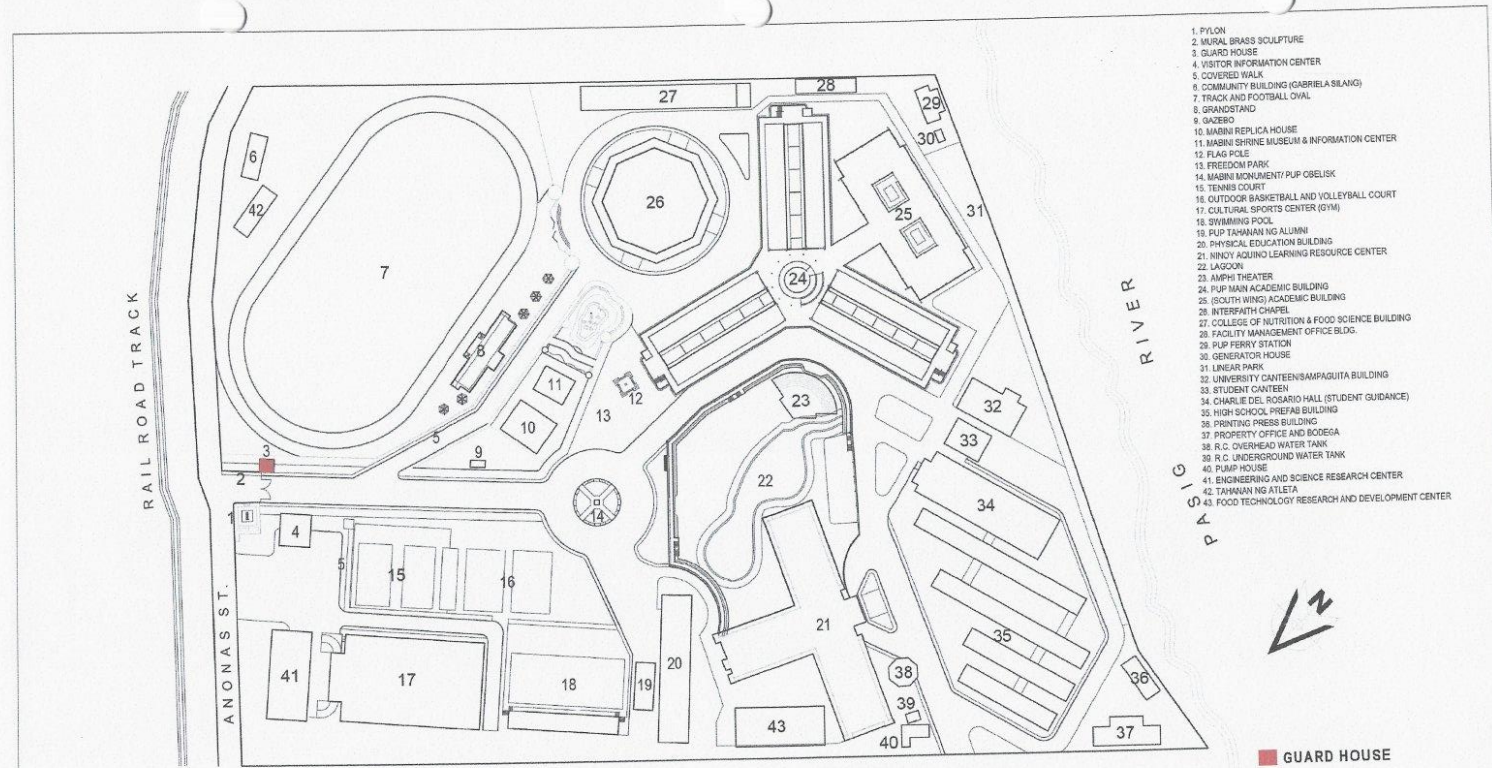


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**1**  
**A-1** MASTER SITE DEVELOPMENT PLAN  
SCALE 1:1000MTS

**NOTE:**  
OTHER GUARDS AND SECURITY ARE WITHIN  
THE BUILDING PREMISES

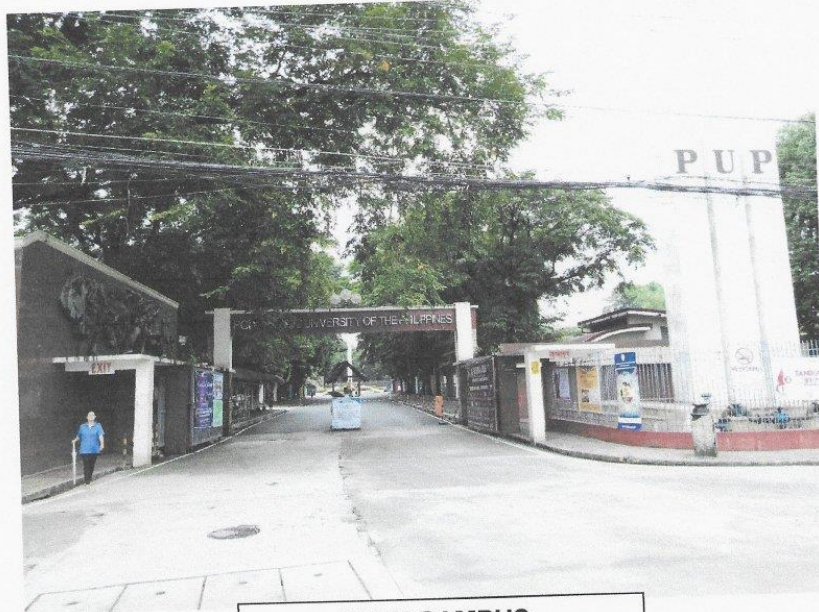
OWNER	PROJECT TITLE	PREPARED BY	SHEET CONTENTS	SHEET NO.
Republic of the Philippines POLYTECHNIC UNIVERSITY OF THE PHILIPPINES Sta. Mesa, Manila	PUP STA.MESA MASTER SITE DEVELOPMENT PLAN  LOCATION:PUP-MABINI CAMPUS, STA.MESA, MANILA	AR. EMP. SHERWIN N. NIEVA DIRECTOR PHYSICAL PLANNING AND DEVELOPMENT OFFICE	AS SHOWN CADD BY: ADF DATE:	A-1

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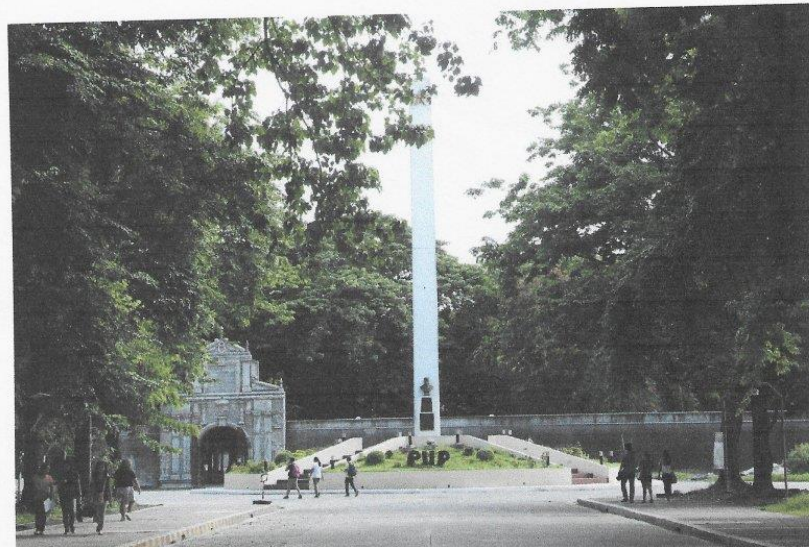




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**MAIN CAMPUS:  
MAIN ENTRANCE AND EXIT**



**ENTRY ROAD  
FACING PUP OBELISK**



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PUP OBELISK  
ROTONDA



ROTONDA AROUND CHAPEL  
AND  
PARKING AREA



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PATHWAYS INSIDE MAIN CAMPUS



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COVERED PATHWAYS





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**PEDESTRIAN LANE INSIDE THE MAIN CAMPUS ENTRANCE**



**PEDESTRIAN LANE INSIDE THE MAIN CAMPUS  
FROM INTERFAITH CHAPEL TO MAIN BUILDING**



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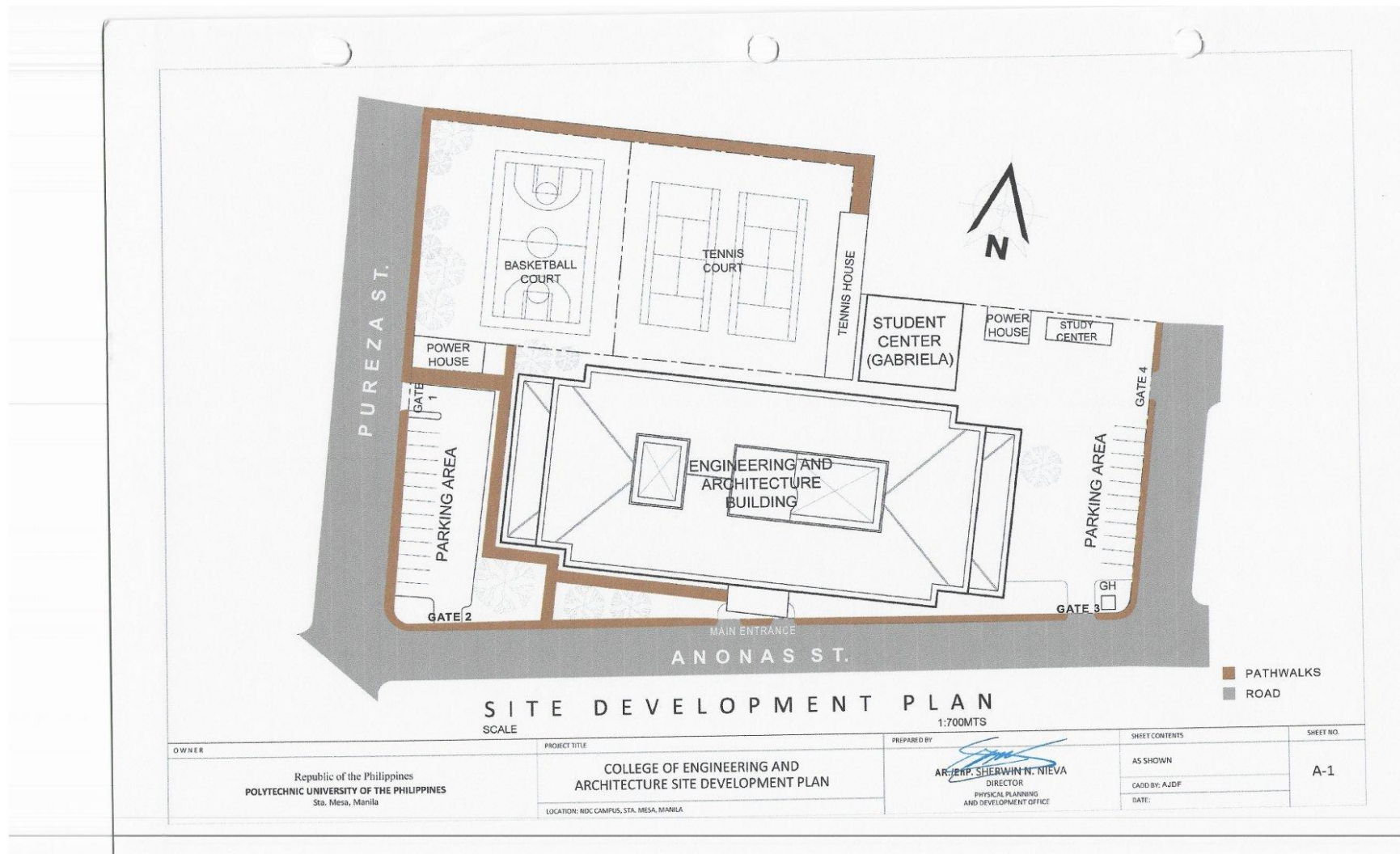
PEDESTRIAN LANE OUTSIDE THE MAIN CAMPUS ENTRANCE



PEDESTRIAN LANE OUTSIDE THE MAIN CAMPUS EXIT



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