

WELCOME

UNIVERSITY OF VAVUNIYA MASTER PLAN

2021

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- TO BE COMPLETED COMMON VEHICLE PARKING AREA	

INTRODUCTION

A Master Plan (MP) describes an institution's academic /administrative mission, driving the University' future. This report contains the conceptual master plan to guide the University of Vavuniya' future infrastructure development. The master plan includes analysis, recommendations, and proposals for a site's population, economy, housing, transportation, community facilities, and land use. It is based on public input, surveys, planning initiatives, existing development, physical characteristics, and social and economic conditions.

BACKGROUND OF THE PROJECT

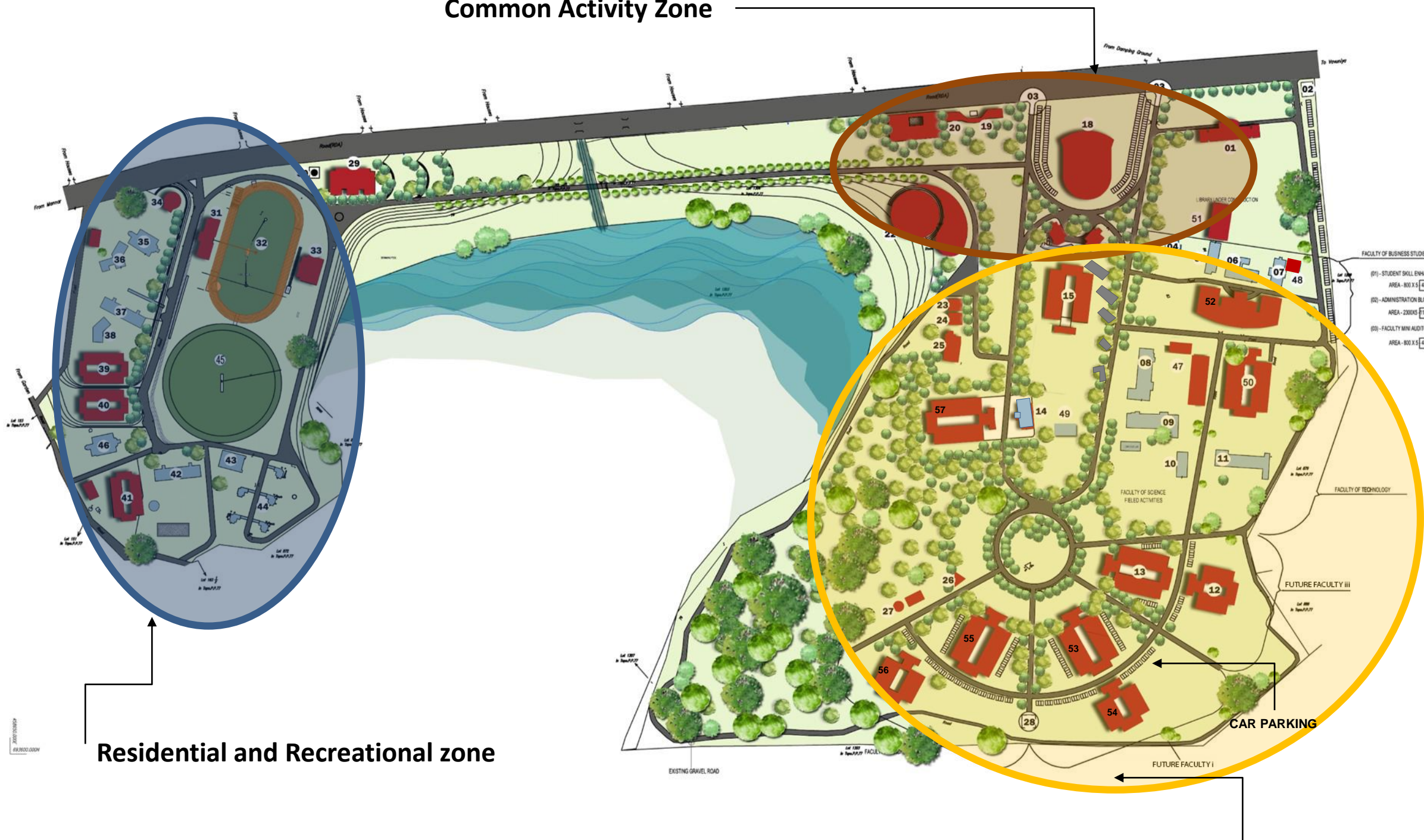
The history of the University of Vavuniya as a seat of learning goes back to 1991. It was formed by elevating the status of the Northern Province Affiliated University College (NPAUC) at Vavuniya to offer Diploma Courses in Mathematical Sciences, English and Accountancy, and Finance.

The Vavuniya Campus of the University of Jaffna was established on 1st April 1997 by an order made under Section 22 of the Universities Act No. 16 of 1978 with two faculties: the Faculty of Applied Science and Faculty of Business Studies, each with two departments. Students were absorbed into Vavuniya Campus, and the Faculty commenced its academic activities in 1997. The first direct intake of the Campus took place in 1998.

The University of Vavuniya was established on 1st of August 2021 by an order made under section 22 of the Universities Act No. 16 of 1978 with three faculties: Faculty of Business Studies, Faculty of Applied Science, and Faculty of Technological Studies.

BASIC ZONES

Common Activity Zone

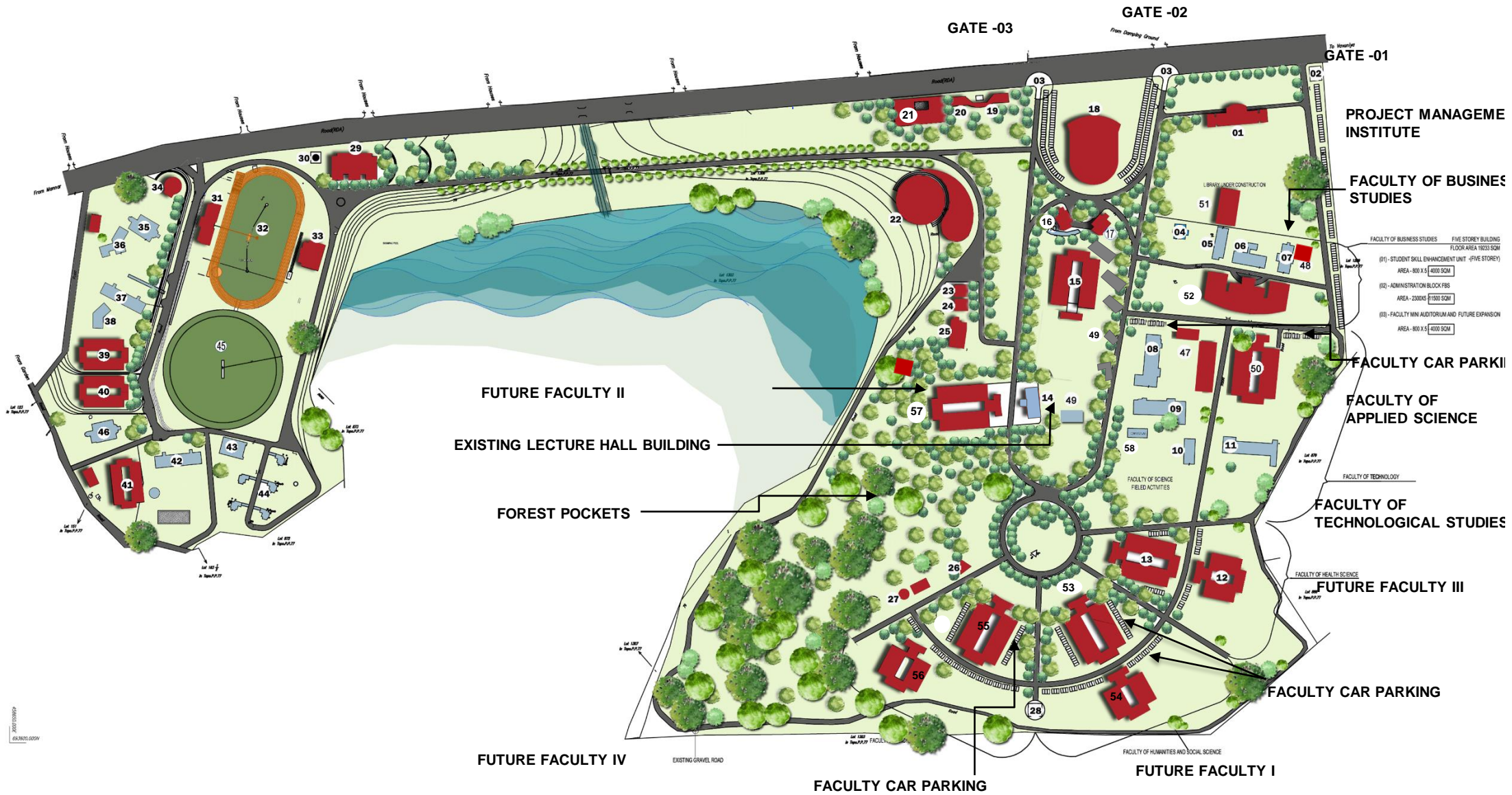


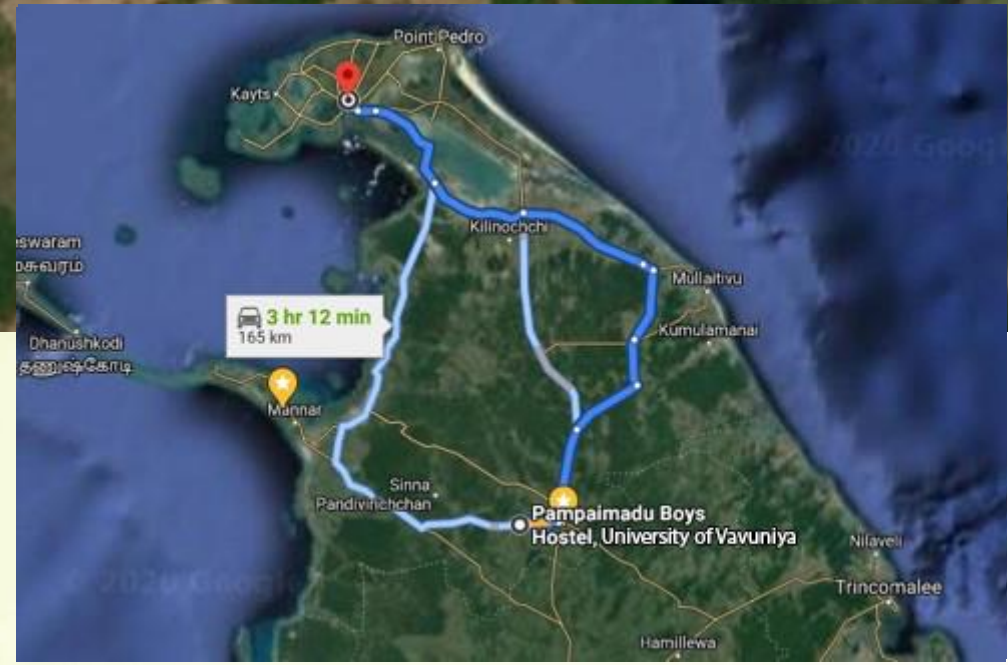
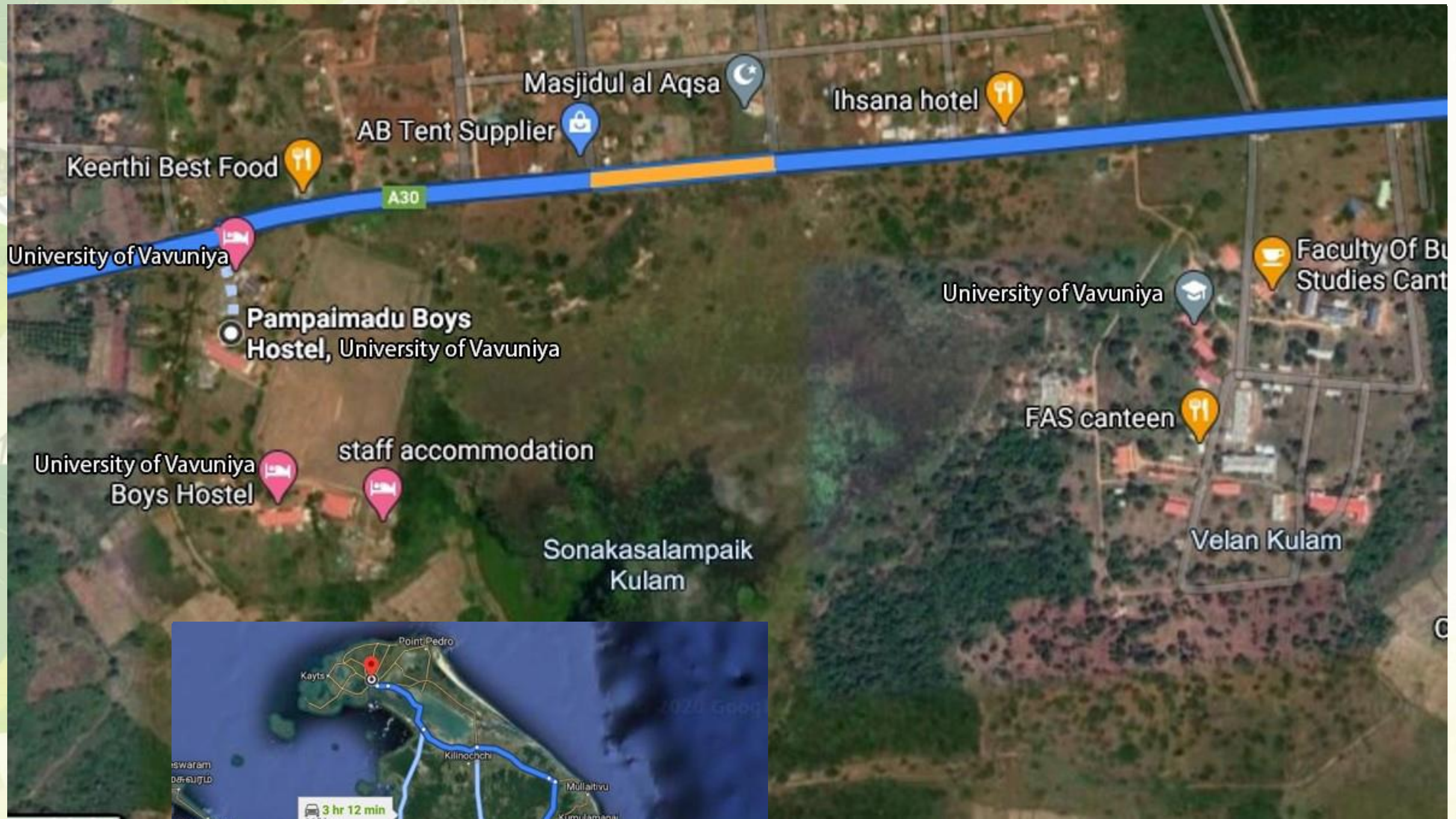
Residential and Recreational zone

Academic and Administration Zone

NOTE
 ALL SEMIPERMANENT SINGLE STOREY LECTURE HALLS TO BE DEMOLISHED ONCE COMPLETED THE COMMON LECTURE HALL BUILDING IN LATER STAGE

- LEGEND**
- 01 - ADMINISTRATION BLOCK
 - 02 - MINI GUEST HOUSE
 - 03 - GATE
 - 04 - EXISTING CANTEEN
 - 05 - SOOSARATNAN BLOCK
 - 06 - BALAKRISHNAN BLOCK
 - 07 - PROJECT MANAGEMENT BUILDING
 - 08 - PHYSICAL SCIENCE BUILDING
 - 09 - BIO SCIENCE BUILDING
 - 10 - ADVANCED COMPUTER LABORATORY
 - 11 - FACULTY OF TECHNOLOGICAL STUDIES
 - 12 - PROPOSED FACULTY BUILDING (TYPICAL SMALL)
 - 13 - PROPOSED FACULTY BUILDING (TYPICAL LARGE)
 - 14 - FACULTY OF APPLIED SCIENCE BUILDING (FACULTY OF ENVIRONMENTAL SCIENCE BUILDING IN FUTURE)
 - 15 - COMMON LECTURE HALL
 - 16 - STUDENT'S CENTRE
 - 17 - FACULTY OF BUSINESS STUDIES BUILDING (UTILIZING FOR ACADEMIC ACTIVITIES / COMMON ACTIVITIES IN FUTURE)
 - 18 - AUDITORIUM
 - 19 - EXISTING AMMACHCHI BUILDING
 - 20 - PROPOSED SHOPPING COMPLEX
 - 21 - PROPOSED DAYCARE CENTRE AND KINDER GARDEN
 - 22 - OPEN AIR THEATRE
 - 23 - MAINTENANCE CENTRE, FINANCE STORE
 - 24 - STAFF DEVELOPMENT CENTRE
 - 25 - THREE STOREY IT CENTRE
 - 26 - PROPOSED COMMUNICATION TOWER LOCATION
 - 27 - WELL AND PLANT
 - 28 - PLACE FOR RELIGIOUS ACTIVITIES
 - 29 - PROPOSED STAFF QUARTERS - 30 Nos: FIVE STOREY BUILDING
 - 30 - WELL AND WATER TANK
 - 31 - PAVILLION
 - 32 - 400m ATHLETIC GROUND
 - 33 - SWIMMING POOL
 - 34 - HEALTH CENTRE
 - 35 - HOSTEL (FEMALE)
 - 36 - HOSTEL CANTEEN
 - 37 - HOSTEL (FEMALE)
 - 38 - HOSTEL CANTEEN
 - 39 - FOUR STOREY GIRL'S HOSTEL
 - 40 - FOUR STOREY GIRL'S HOSTEL
 - 41 - FOUR STOREY BOY'S HOSTEL
 - 42 - HOSTEL (MALE)
 - 43 - INDOOR STADIUM
 - 44 - STAFF QUARTERS
 - 45 - CRICKET GROUND
 - 46 - HOSTEL (FEMALE)
 - 47 - DEANS OFFICE, FACULTY OF APPLIED SCIENCE AND DEPARTMENT OF IT
 - 48 - PROJECT MANAGEMENT INSTITUTE
 - 49 - EXISTING LECTURE HALL
 - 50 - PROPOSED FACULTY OF TECHNOLOGICAL STUDIES BUILDING
 - 51 - COMMON LIBRARY UNDER CONSTRUCTION
 - 52 - FACULTY OF BUSINESS STUDIES
 - 53 - FACULTY OF HUMANITIES AND SOCIAL SCIENCES(TYPICAL LARGE)
 - 54 - FACULTY OF HUMANITIES AND SOCIAL SCIENCES(TYPICAL SMALL)
 - 55 - FACULTY OF ARCHITECTURE AND FASHION DESIGN(TYPICAL LARGE)
 - 56 - FACULTY OF ARCHITECTURE AND FASHION DESIGN(TYPICAL SMALL)
 - 57 - FACULTY OF ENVIRONMENTAL SCIENCE
 - 58 - COMPUTER LAB





LOCATION OF THE UNIVERSITY OF VAVUNIYA

SCOPE OF THE WORK

The prospects for the University' phased development are considered over the next ten years and the next 20+ years, creating a flexible planning framework. It is to be accomplished within ten years and the University may require 20 years to complete the project holistically.

The placement of specific buildings has to be planned much more broadly. The analysis would cover how the University should function as a community, its infrastructure, its recreational spaces, its athletic facilities, etc. The previous University plans will be as points of departure . The recommendation will be given for appropriate growth and reorganization strategies.

The goal is to increase the on-University residency rate to, at least 75% (with the possibility of going higher). There will be stable enrolments and stronger retention. The appropriate footprint for the University will be developed the on-off - University' living option will be attractive, Culture –friendly and environmental – friendly. The project will recommend improvement in preserving multiple housing options.

The project will assess the needs for academic and co-curricular facilities, athletic facilities and playing fields, parking and open space over the next 20 years.

Some activities of the comprehensive project at the University have already been accomplished. These include space analyses connected with all the faculties in the academic zone, administration zone, auditorium, public services, and interconnected residential and recreational zones with an elevated bridge crossing the nature-friendly tank area.

This project will provide a broad landscape master plan that will incorporate appropriate standards for paving, walkways, signage, lighting, and a long-term plan for parking for moving vehicles in and out of the University core.

NEED FOR SENSITIVE USE OF LAND

The land for the University at Pampaimadu is 65.0250 hectares. It has smaller land plots in Vavuniya town, such as Park Road premises, Inner Circular Road Premises, and Kurumankaadu premises. They are presently used for administrative activities. The existing University is bonded by a couple of tanks naming Sopalapillayankulam and Velankulam. Therefore, adequate sensitivity and care are essential to minimise the disturbances to the tanks and the catchment in any development activities of University of Vavuniya.

NEED FOR FUTURE EXPANSION

At present, there are three “academic entities/common facilities” as Faculty of Applied Sciences, Faculty of Business Studies, and Faculty of Technological Studies with above 1500 students. The University expects to increase the student intake through introducing a new study programme along with proposed future faculties will be established one by one .

01. Faculty of Medicine,
02. Faculty of Humanities and Social Sciences,
03. Faculty of Health Science,
04. Faculty of Environmental Science,
05. Faculty of Aquaculture, Fisheries and Marine Studies,
06. Faculty of Tourism and Hotel Management,
07. Faculty of Livestock,
08. Faculty of Graduate Studies

These expansions need to be organized to prevent ad-hoc development and allow adequate space for further expansion even beyond the next twenty years maximising the best use of land.

Faculty of Applied Science

- 01.The Faculty of Applied Science will be shifted to the proposed Area once it's Administrative buildings are completed.
- 02.The Faculty of Environmental Science will utilize the existing Administrative Building of the Faculty of Applied Science.
03. The Field level activities(Silage production, Mushroom cultivation & Yoghurt production)belongs to the faculty of applied science would be carried out continuously at the same location

Faculty of Business Studies

- 01.The Faculty of Business Studies will be shifted to the proposed Area once it's Administrative buildings are completed.
- 02.The existing Administrative Building of the Faculty of Business Studies will be utilized for future "academic activities /Common Facilities."

NOTE : All the semi-permanent buildings have been utilizing by Faculties continuously until those facilities available in those semi permanent buildings are substituted in another full-fledged building.

MAINTAIN THE CONDUSIVE ENVIRONMENT AND IDENTICLE CHARACTER

The region's general climatic condition has characteristics of relatively higher temperature and low humidity throughout the year. Therefore, the University premises and its surroundings will also need a green environment, pocket parks, shady cycling tracks, and walking pathways interconnected with the faculties and residential areas. They will reduce the heat generated by solar reduction and ground reflection, reduce glare by shade containing dust, fumes. It will be pleasant to the users.

The existing faculty buildings and semi-permanent lecture hall buildings do not pose a strong architectural character that could lead to a strong image. Therefore, proposed building and all elements to be built up by the theme of strong architectural concept to create an iconic landmark among the Universities in Sri Lanka

MASTER PLAN OBJECTIVES AND CONCEPTS

As this document introduced, the place-making principles that set the vision for the Master plan have evolved to address the opportunities within the site analysed, which promote vital objectives. These key objectives seek to:

Improve the University arrival and navigation experience to align it with the reputation of the University.

The Master plan proposes enhancing entrances from Vavuniya - Mannar main road with landscaping, finding signage, and directional stopping points for visitors. It will allow the most frequent users (students and public) to travel by motor vehicle to enter the University more conveniently, promoting users to leave their vehicles towards the periphery and walk to their destination within the University. It will also help encourage less car usage in the centre of the University, which will be more pedestrian in its nature and character.

Create high-quality pedestrian environments, including a central core to promote interaction and a sense of place.

Deliver a connected and walk able University that prioritises sustainable transport choices.

Use way finding and a clear design aesthetic in urban design to provide a safe and consistent University experience.

Provide high-quality facilities for our students, staff, commercial partners, and visitors that meet the University's technological and sustainability objectives.

The concept has been developed as a green-oriented University adhering to a natural couple of water bodies and naturally grown-up indigenous wilderness and topographical setup.

Essential factors have been considered to achieve this concept

Natural geographic features of the land and surrounding.

Maximum use of existing structure, field activities and road network.

Achieve a teaching and learning environment for proposed building projects.

INFRASTRUCTURE DEVELOPMENT STRATEGY.

1. WATER SUPPLY AND DRAINAGE

The water supply in the Vavuniya area is already having problems related to quality, quantity, and continuity due to the scarcity of reliable sources. In this regard, the strategy proposed is to establish several deep-water wells coupled with R.O. plants to treat hardness. The project recommends to obtain the service of the national water supply and drainage board for this purpose.

A separate centralized water tank is needed for the Academic and Residential Areas respectively

The water requirement of the University within the next few years will be tremendously increased up to 60000 lives. Providing adequate portable water will be one of the main challenges that the University has to face.

2. TOILET WASTE.

According to the forecast, the University's population density needs two treatment plants. One is to be located at the residential premises, and the other at academic zone. The size may be varied according to the usage .

ORGANIC WASTE PROCESSER

Step 1
Step 2
Step 3

1 Collect & Sort out the kitchen waste food
2 Feed waste food into the biochemical treatment machine. After 12 - 24 hours of fermentation, deodorization & sterilization, it produces organic fertilizer
3 Processed organic fertilizer, it can be used for farming & gardening

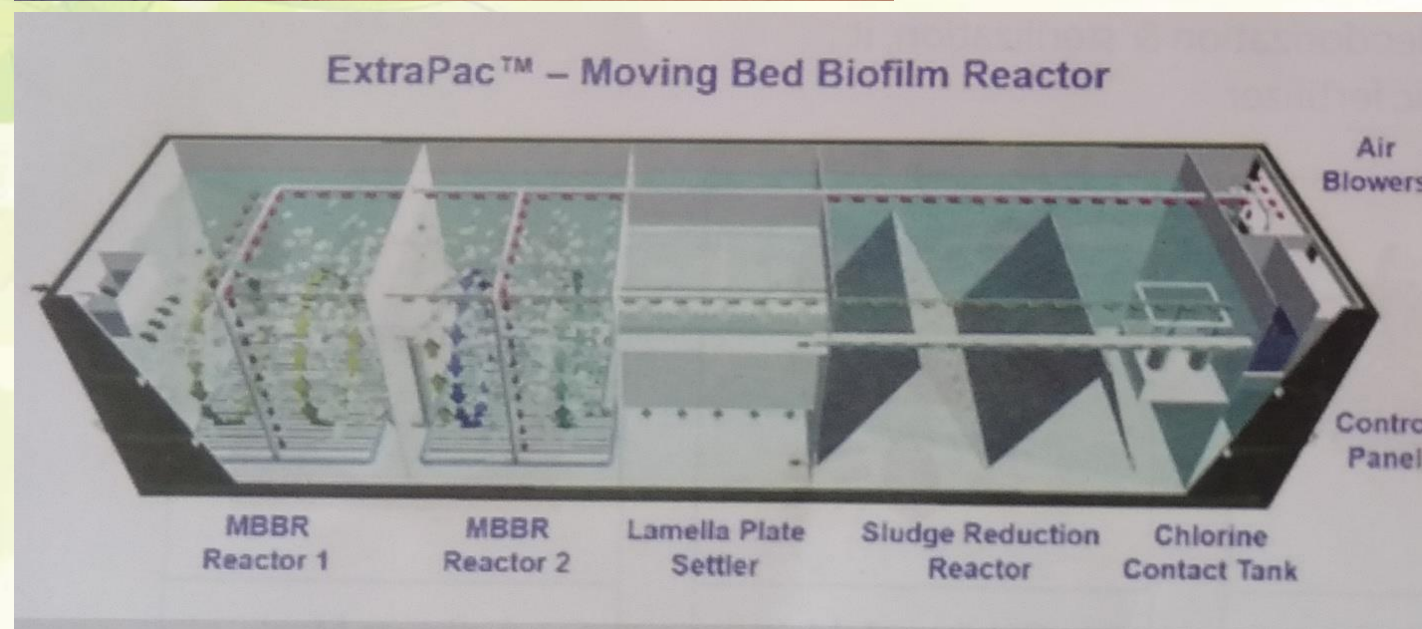
ORGANIC WASTE TREATMENT PLANT

R.O PLANT FOR TREAT THE HARDNESS OF WATER – 500 LPH



A BOX THAT CONVERTS ALL BAD INTO GOOD

SEWERAGE TREATMENT PLANT



3. VEHICLE PARKING AND ROAD NETWORK.

There are three factors to be considered:

- Road network and flow patterns
- Location of the public, students and staff's parking areas
- Shaded bicycle sheds and riding tracks



Colourful paving blocks and studded concrete blocks with adequate ramps for the disabled access

There are three types of roads, according to widths.

- The main entrance road – 6m wide
- Connecting the roadways – 3m wide with 2m wide cycle tracks / 1m walk tracks detailed in the coloured paving blocks.

eco friendly walkways, parking plots, shaded connecting roads and pocket parks



4. ENERGY.

The national grid CEB will be enabled to provide adequate supply meeting the energy demand of the Campus. All the proposed buildings should respond to the energy-efficient building codes developed by the sustainable energy authority and other national guidelines. Photovoltaic glass panels, solar panels indigenous plants, and creeper barriers are to be fixed according to the sun path, solar panel as a roof of the buildings, and other energy-efficient green features should be included in future proposals.

SOLAR PANEL SHADED CAR PARKING PLOTS



SOLAR PANELS ON ROOF TOPS



PROPOSED GREEN FEATURES TO CREATE SUSTAINABLE ECO FRIENDLY ENVIRONMENT



PHOTOVOLTAIC GLASS FACADES



SHADED BLOCK PAVED CYCLE TRACKS



VERTICAL GARDEN WITH HEAT REDUCTION GLAZED FACADE



PROPOSED UNDERGROUND FEEDER CABLE SYSTEM WITH CONCRETE TRENCHES



5. BUILDING ARCHITECTURE

The proposed building for each faculty in the academic and administration zones has five floors (the ground and the four) A courtyard will complement to provide the demand capacity, thermal comfort and impressive modern outlook . All the buildings should have weather protection features and cultural uniqueness among the cluster of the buildings.

Interior finishes and services should be done carefully under a consultant architect's guidance. Proposed lecture halls and open office spaces, and floor finishing materials should be homogeneous.

EXISTING CONDITIONS OF THE BUILDINGS

EXISTING BUILDING IMAGES

SOOSAIRATNAM BUILDING (LECTURE HALL)



PROJECT MANAGEMENT BUILDING



FACULTY OF APPLIED SCIENCE



ADVANCE D COMPUTER LABORATORY



PHYSICAL SCIENCE BUILDING



LECTURE HALL



EXISTING BUILDING IMAGES

ADVANCE COMPUTER LABORATORY



FACULTY OF TECHNOLOGICAL STUDIES



BALAKRISHNAN BUILDING



BIO SCIENCE BUILDING



EXISTING FACULTY OF BUSINESS STUDIES BUILDING



EXISTING CANTEEN

4 STORY GIRLS HOSTEL



HOSTEL CANTEEN



EXISTING BUILDINGS IN RESEDENTIAL ZONE

2 STORY STAFF QUARTERS



INDOOR STADIUM

ONGOING PROJECTS

IT CENTER



LIBRARY BUILDING



PROJECT IMPLEMENTATION WITHIN NEXT 10 YEARS

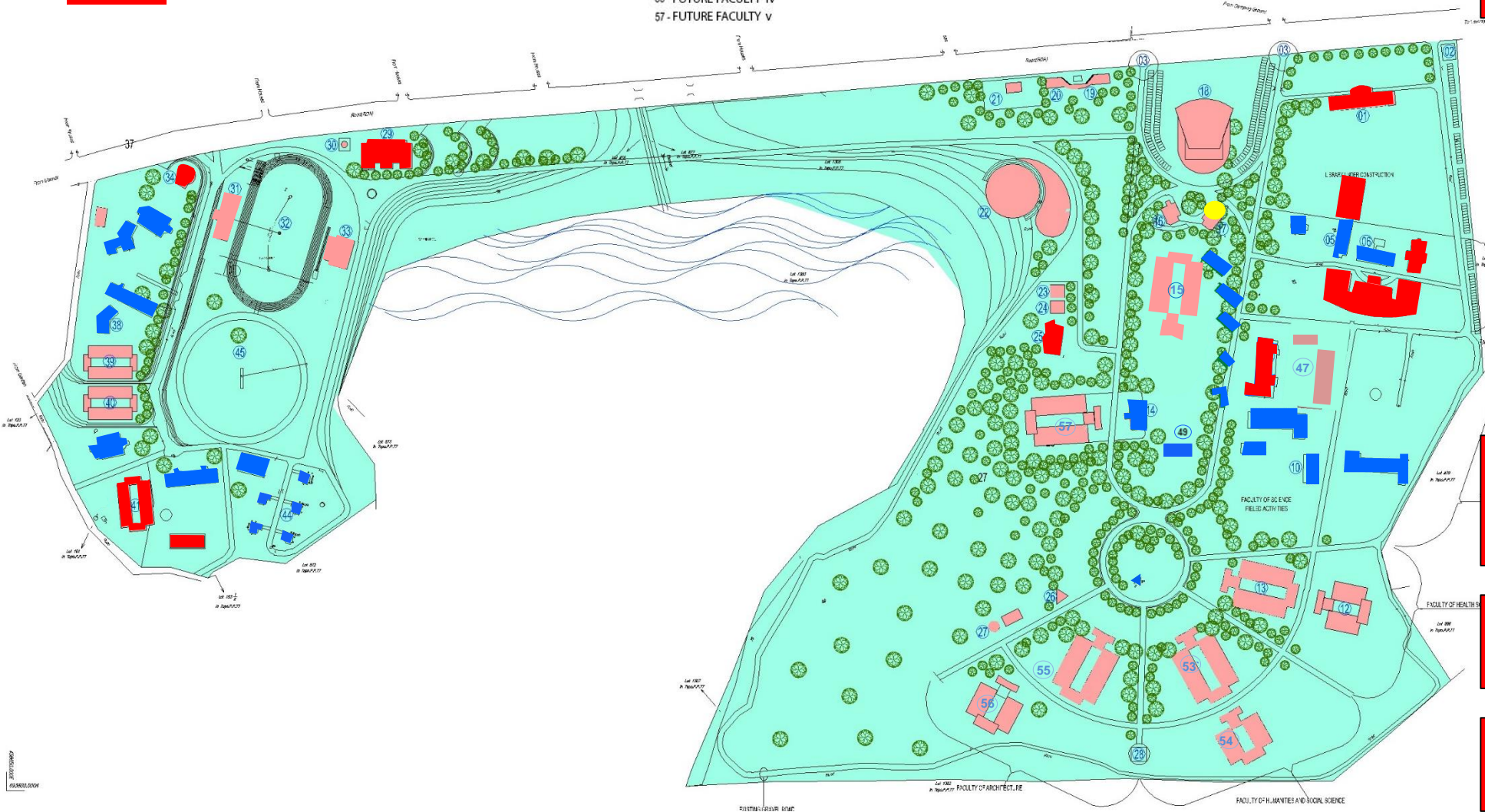
**PROJECT IMPLEMENTATION PHASE WILL BE VERIFIED FROM 2 YEARS TO 3 YEARS
ACCORDING TO THE FUND ALLOCATION OF THE UNIVERSITY OF VAVUNIYA.**

PHASE ONE

LEGEND

- EXISTING BUILDINGS
- FUTURE PROPOSALS
- NEW CONSTRUCTIONS

- 12 - PROPOSED FACULTY BUILDING (TYPICAL SMALL)
- 13 - PROPOSED FACULTY BUILDING (TYPICAL LARGE)
- 15 - COMMON LECTURE HALL
- 16 - STUDENT'S CENTRE
- 17 - FACULTY OF BUSINESS STUDIES BUILDING (UTILIZING FOR ACADEMIC ACTIVITIES / COMMON ACTIVITIES IN FUTURE)
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- 24 - STAFF DEVELOPMENT CENTRE
- 26 - PROPOSED COMMUNICATION TOWER LOCATION
- 27 - WELL AND PLANT
- 31 - PAVILLION
- 33 - SWIMMING POOL
- 39 - FOUR STOREY GIRL'S HOSTEL
- 40 - FOUR STOREY GIRL'S HOSTEL
- 50 - PROPOSED FACULTY OF TECHNOLOGICAL STUDIES BUILDING
- 53 - FUTURE FACULTY i
- 54 - FUTURE FACULTY ii
- 55 - FUTURE FACULTY iii
- 56 - FUTURE FACULTY iv
- 57 - FUTURE FACULTY v



COMPLETE THE SECOND STAGE OF PROJECT MANAGEMENT BUILDING, COMMON LIBRARY BUILDING AND THE THREE STOREY IT BUILDING.

TO BE COMPLETED UPPER FLOOR OF THE PHYSICAL SCIENCE BUILDING.

START THE FACULTY OF BUSINESS STUDIES , STAFF QUARTERS AND ADMINISTRATION BLOCK

TO BE COMPLETED HEALTH CENTER

FACULTY OF BUSINESS STUDIES FIVE STOREY BUILDING FLOOR AREA 1833 SQM
 (01) - STUDENT SKILL ENHANCEMENT UNIT (FIVE STOREY)
 AREA - 800 X 5 (4000 SQM)
 (02) - ADMINISTRATION BLOCK FBS
 AREA - 820 X 15 (12300 SQM)
 (03) - FACULTY WITH AUDITORIUM AND FUTURE EXPANSION
 AREA - 800 X 15 (12000 SQM)
 FACULTY OF TECHNOLOGY

SHIFT THE FUNCTIONS OF FACULTY OF BUSINESS STUDIES IN TO NEWLY COMPLETED BUILDING.

TO BE SHIFTED THE FUNCTIONS OF EXISTING ADMINISTRATION AT PARK ROAD, VAUNIYA

RESIDENTIAL ZONE SEWERAGE TREATMENT PLANT AND MALE HOSTEL

PHASE TWO

LEGEND

- EXISTING BUILDINGS
- FUTURE PROPOSALS
- NEW CONSTRUCTIONS

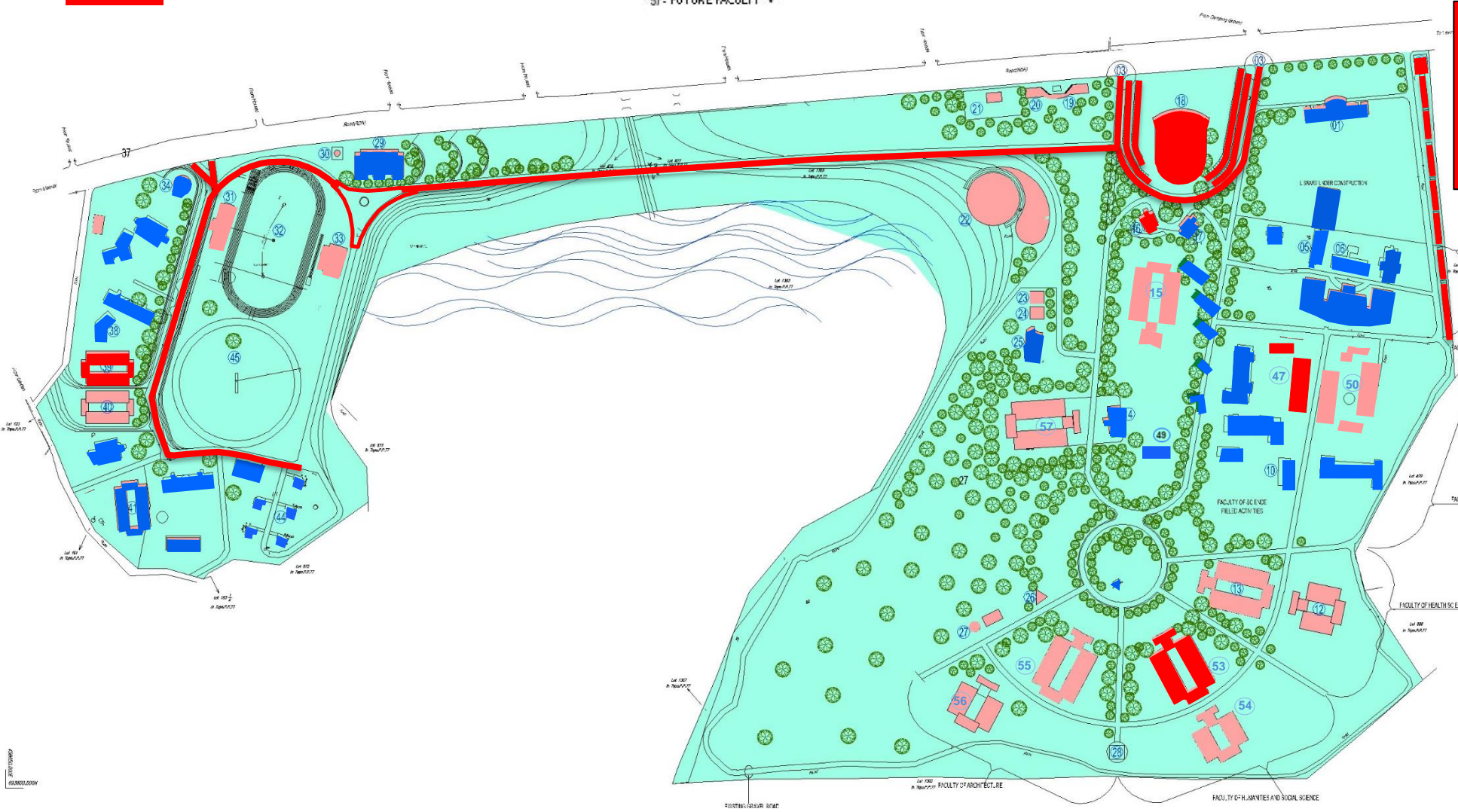
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- 54 - FUTURE FACULTY II
- 55 - FUTURE FACULTY III
- 56 - FUTURE FACULTY IV
- 57 - FUTURE FACULTY V

START THE CONSTRUCTION OF AUDITORIUM, PARAPET WALL, STUDENTS COMPLEX (SDC, CAREER GUIDANCE)

TO BE COMPLETED COMMON VEHICLE PARKING AREA

TO BE COMPLETED 6 m WIDE MAIN ACCESS ROAD CONNECTING RESIDENTIAL AND ACEDAMIC ZONES

CONSTRUCTION OF ADMINISTRATION BUILDING , FACULTY OF APPLIED SCIENCE , FACULTY OF HUMANITIES & SOCIAL SCIENCE, FEMALE HOSTEL - I, MINI GUEST HOUSE - I



- FACULTY OF BUSINESS STUDIES FIVE STOREY BUILDING FLOOR AREA 1800 SQM
- (01) - STUDENT SKILL ENHANCEMENT UNIT (FIVE STOREY) AREA - 800 X 5 (400 SQM)
- (02) - ADMINISTRATION BLOCK (FIVE STOREY) AREA - 2500 X 1750 SQM
- (03) - FACULTY ADMINISTRATION AND FUTURE EXPANSION AREA - 800 X 5 (400 SQM)

PHASE THREE

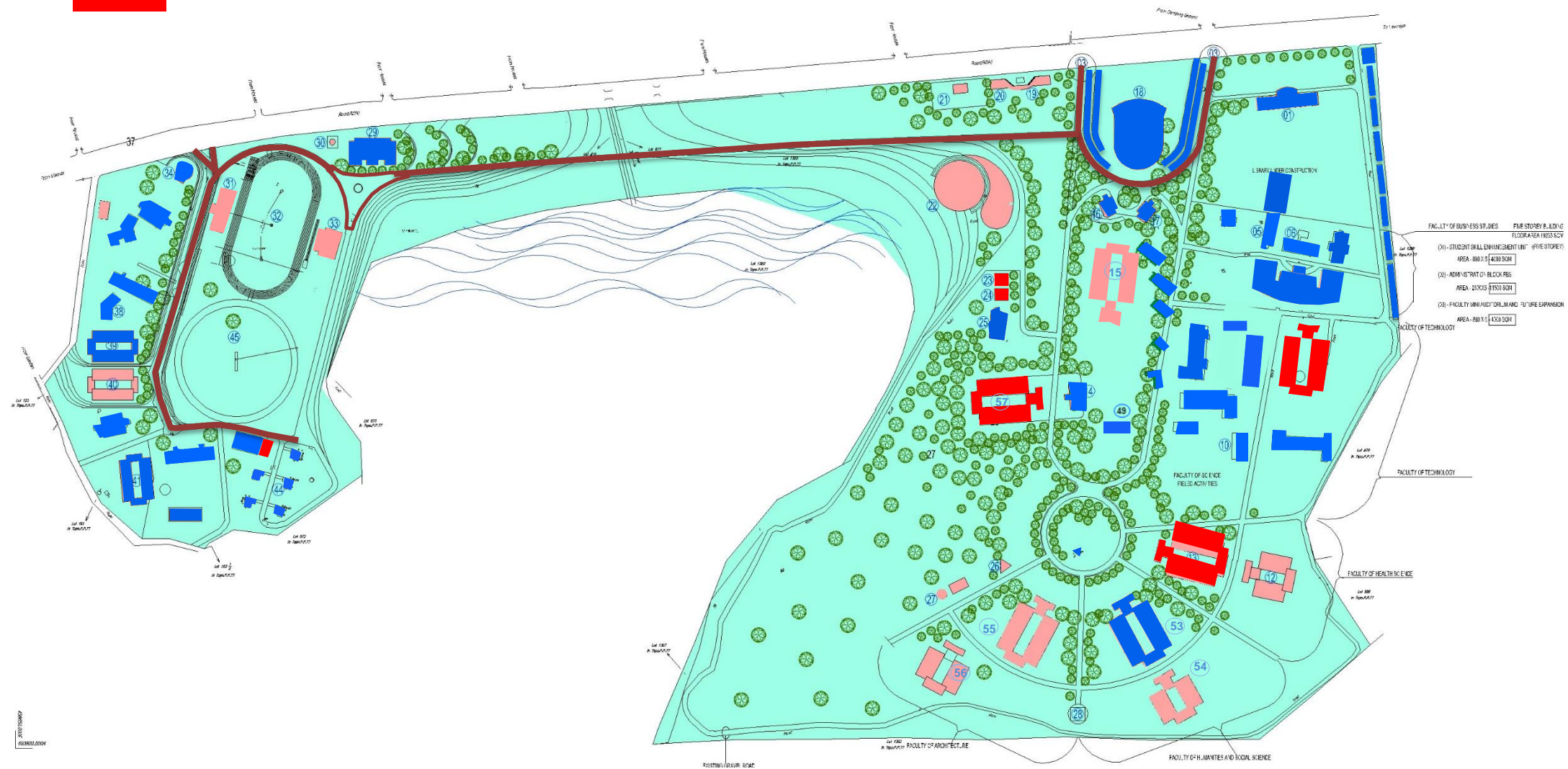
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- 55 - FUTURE FACULTY III
- 56 - FUTURE FACULTY IV
- 57 - FUTURE FACULTY V

START THE FACULTY OF ENVIRONMENTAL SCIENCE BUILDING, FACULTY OF TECHNOLOGICAL STUDIES, FACULTY OF HEALTH SCIENCE, MAINTENANCE UNIT & FINANCE STORES,

TO BE COMPLETED EXTENSION OF PHYSICAL EDUCATION UNIT CLOSE BY INDOOR STADIUM



FACULTY OF BUSINESS STUDIES FIVE STOREY BUILDING FLOOR AREA 1823.52 SQ
 (01) - STUDENT SKILL ENHANCEMENT UNIT (FIVE STOREY)
 AREA - 800.25 (400 SQM)
 (02) - ADMINISTRATIVE BLOCK FBS
 AREA - 2170.25 (1085 SQM)
 (03) - FACULTY MINI AUDITORIUM AND FUTURE EXPANSION
 AREA - 800.25 (400 SQM)

PHASE FOUR

START THE CONSTRUCTIONS OF SHOPPING COMPLEX, SWIMMING POOL, EXTENSION OF PLAY GROUND,

LEGEND

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- FUTURE PROPOSALS
- NEW CONSTRUCTIONS

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- 55 - FUTURE FACULTY IIII
- 56 - FUTURE FACULTY IV



PHASE FIVE

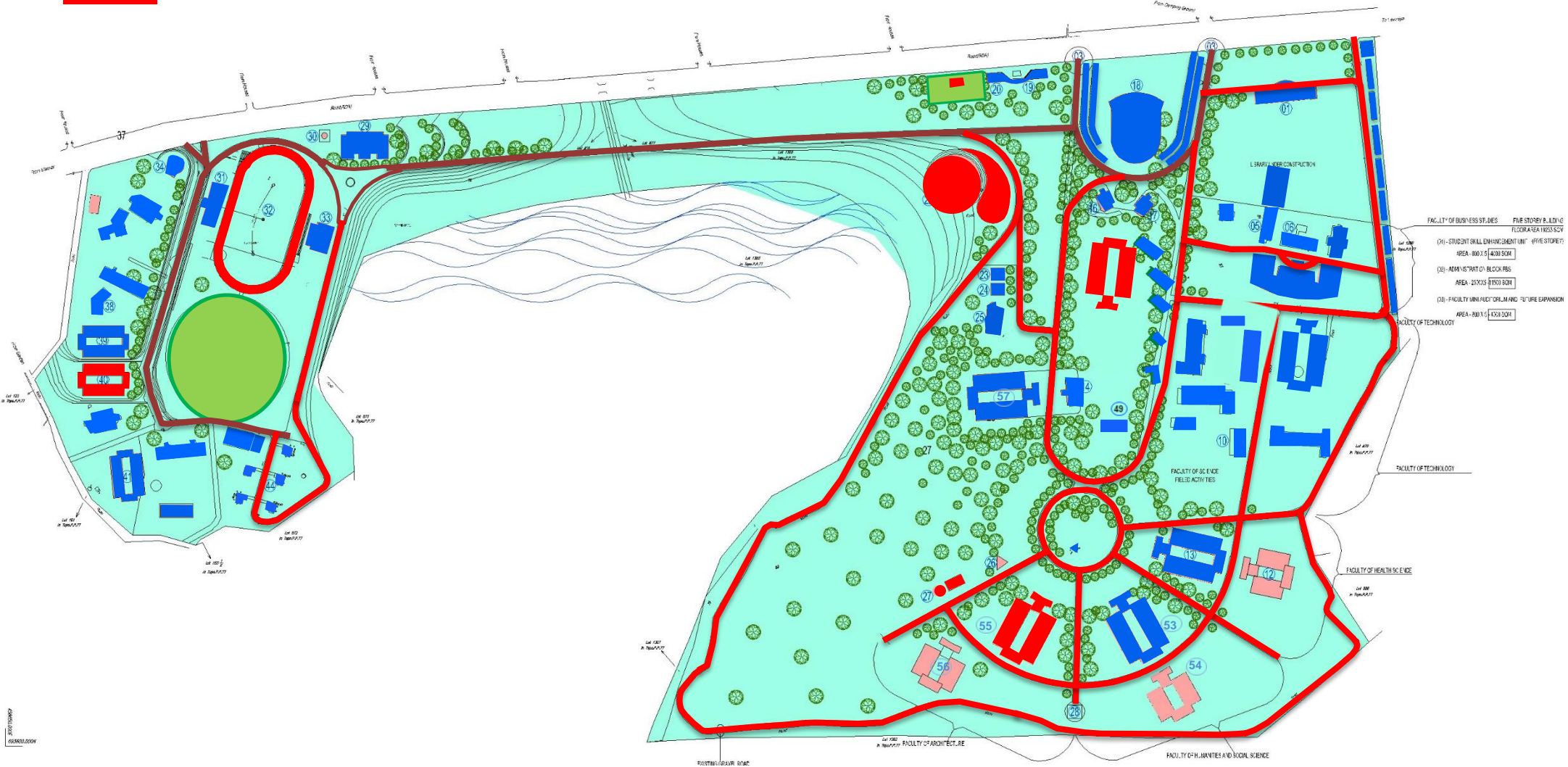
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- EXISTING BUILDINGS
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- NEW CONSTRUCTIONS

- 12 - SECOND STAGE OF PROPOSED FACULTY BUILDING (TYPICAL SMALL)
- 26 - SECOND STAGE OF PROPOSED COMMUNICATION TOWER LOCATION
- 54 - SECOND STAGE OF FUTURE FACULTY II
- 56 - SECOND STAGE OF FUTURE FACULTY IV

START ALL OTHER FACILITIES ONE BY ONE FACULTY OF ARCHITECTURE & FASHION DESIGN , OVERHEAD WATER TANK DAY CARE CENTER AND ALL OTHER SERVICES BUILDINGS.

DEVELOPMENT OF ROAD NETWORK WITH DRAINAGE CONSTRUCTION , ELECTRICITY LINE , CENTRALIZED WATER TANK PIPE LINE ,



3D PRESENTATION

PROPOSED ADMINISTRATION BUILDING WITH GREEN FEATURES



PROPOSED AUDITORIUM



GUEST HOUSE

MAIN ENTRANCE





**PROPOSED SHOPPING COMPLEX
BEHIND THE AMACHCHI BUILDING**

PROPOSED DAYCARE



EXISTING BUSINESS STUDIES BUILDING AND STUDENT CENTER



FRONT VIEW



PROPOSED FACULTY OF BUSINESS STUDIES BUILDING

REAR VIEW





PROPOSED FACULTY OF APPLIED SCIENCE

PROPOSED FACULTY OF TECHNOLOGICAL STUDIES INFRONT OF THIS BUILDING





PROPOSED FUTURE FACULTY II

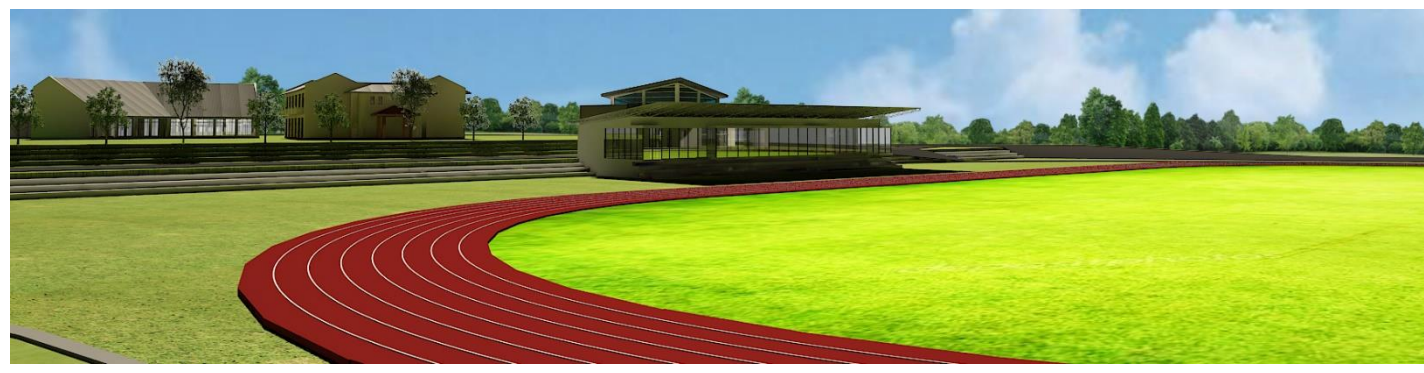


PROPOSED VIEW OF THE NEW FACULTY BUILDING

PROPOSED IT BUILDING, MAINTENANCE CENTER, FINANCIAL STORE AND STAFF DEVELOPMENT CENTER



PROPOSED MEDICAL CENTER



PROPOSED RECREATIONAL AND RESIDENTIAL FACILITIES



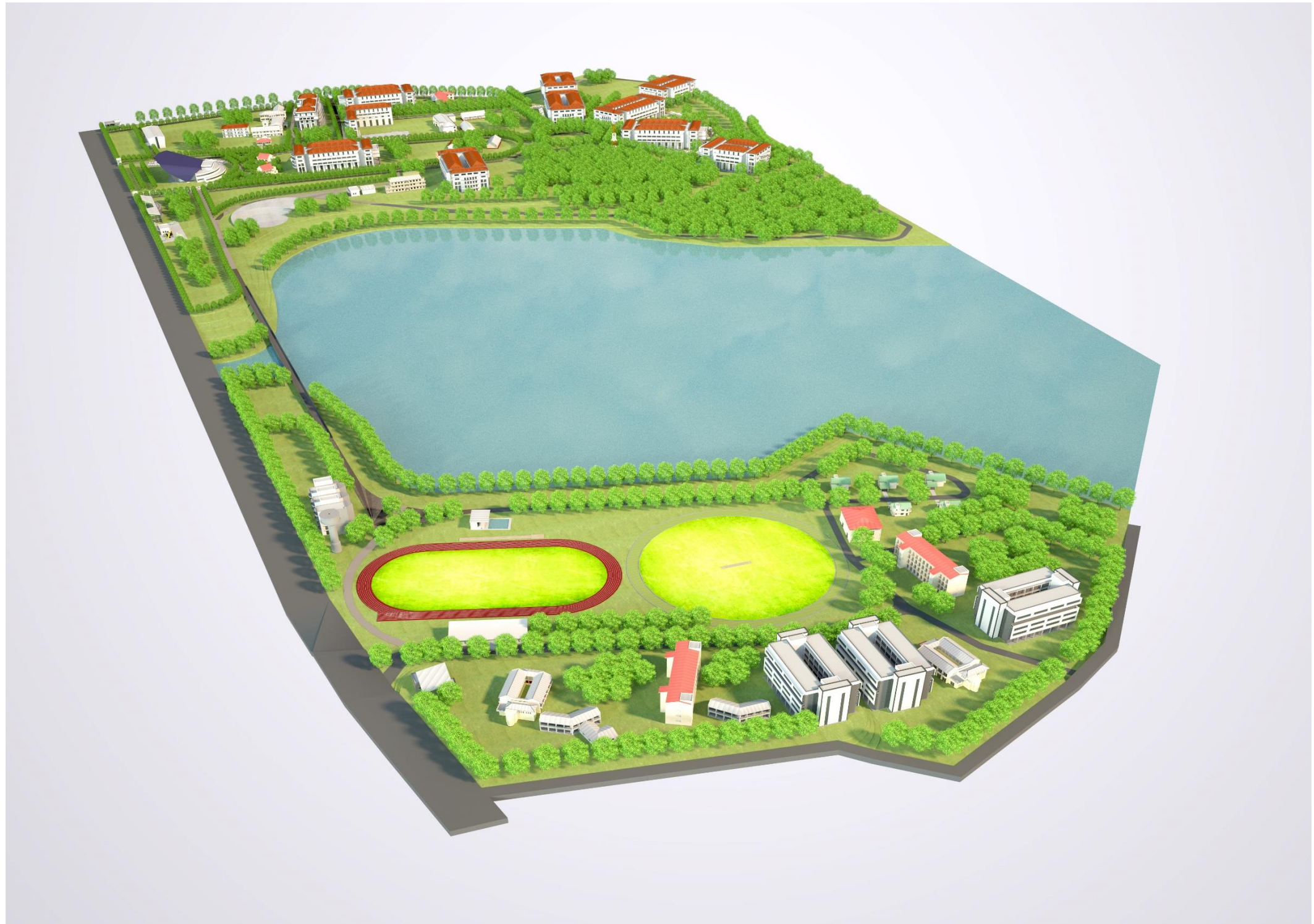
PROPOSED MASTER PLAN VIEW FROM FUTURE FACULTY III



PROPOSED MASTER PLAN VIEW FROM MALE STUDENT HOSTEL



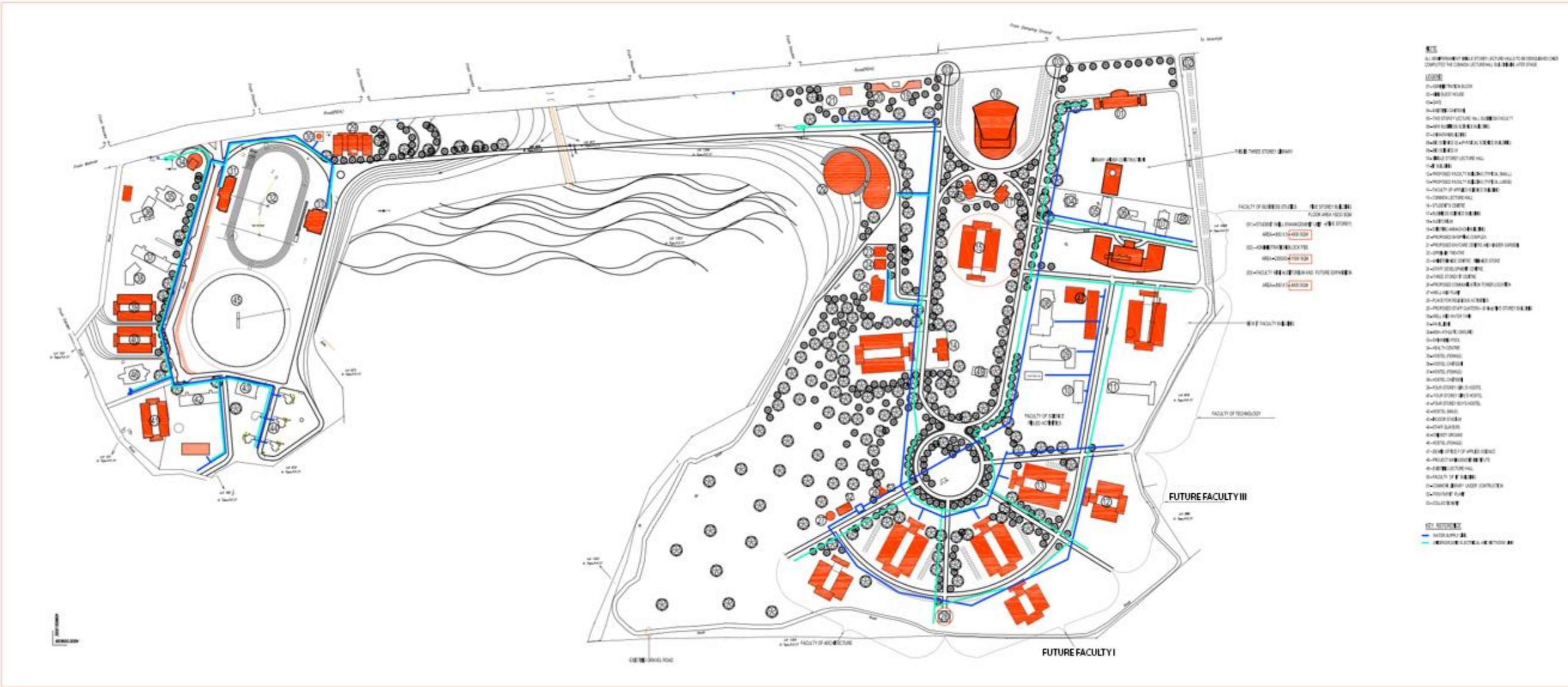
PROPOSED MASTER PLAN VIEW FROM FEMALE STUDENT HOSTEL



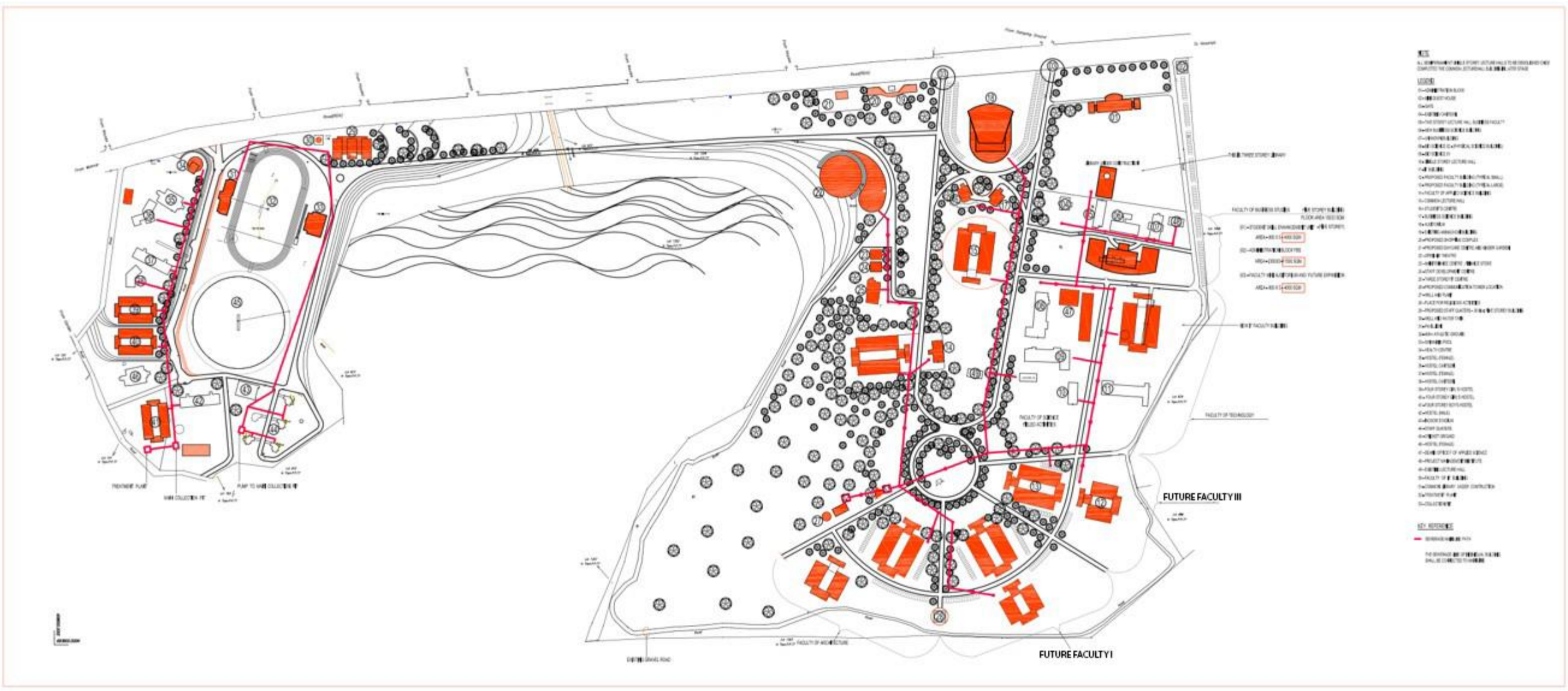
PROPOSED MASTER PLAN VIEW FROM THE ADMINISTRATION CORNER



SERVICE PLAN - WATER SUPPLY AND ELECTRICAL



SERVICE PLAN - SEWERAGE



THANK YOU