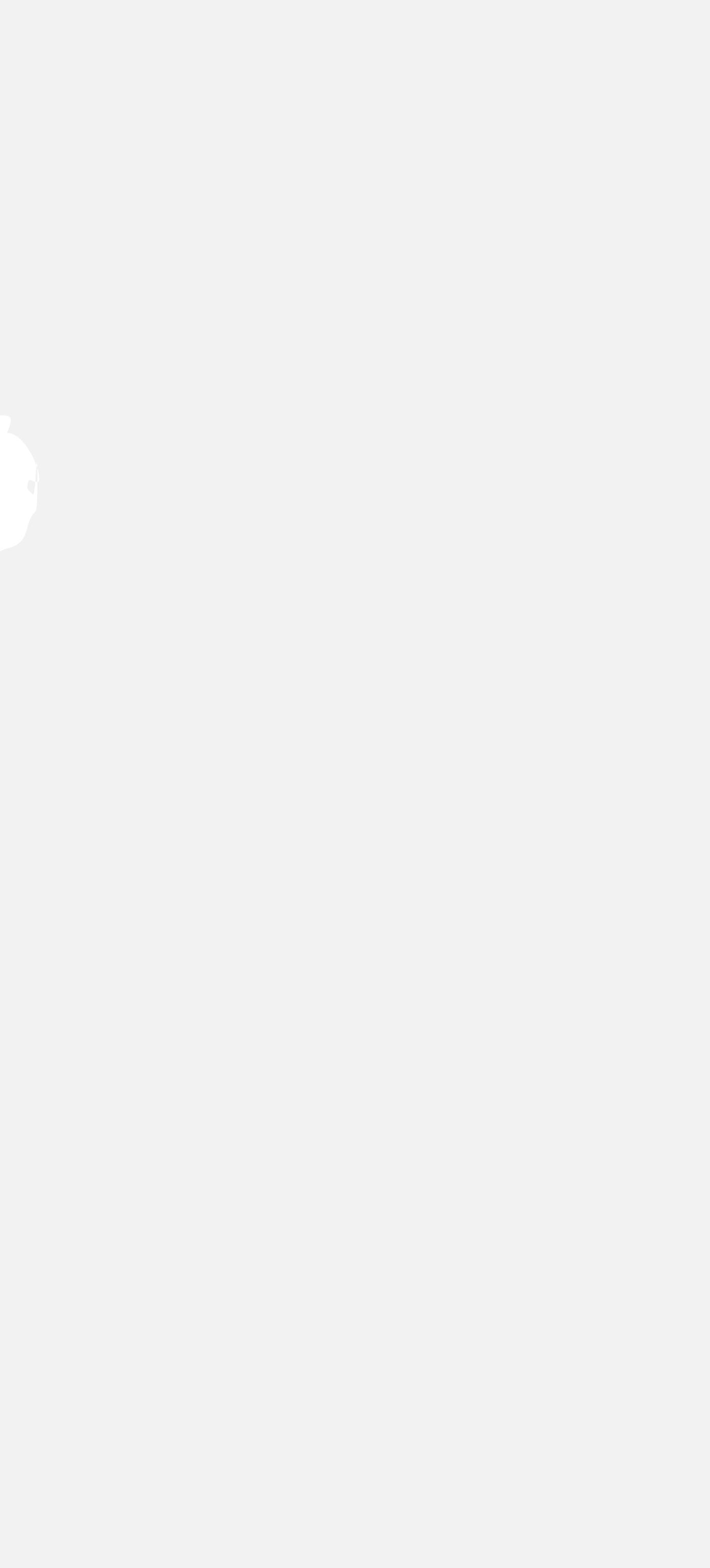


FINAL PORTFOLIO ARB 421







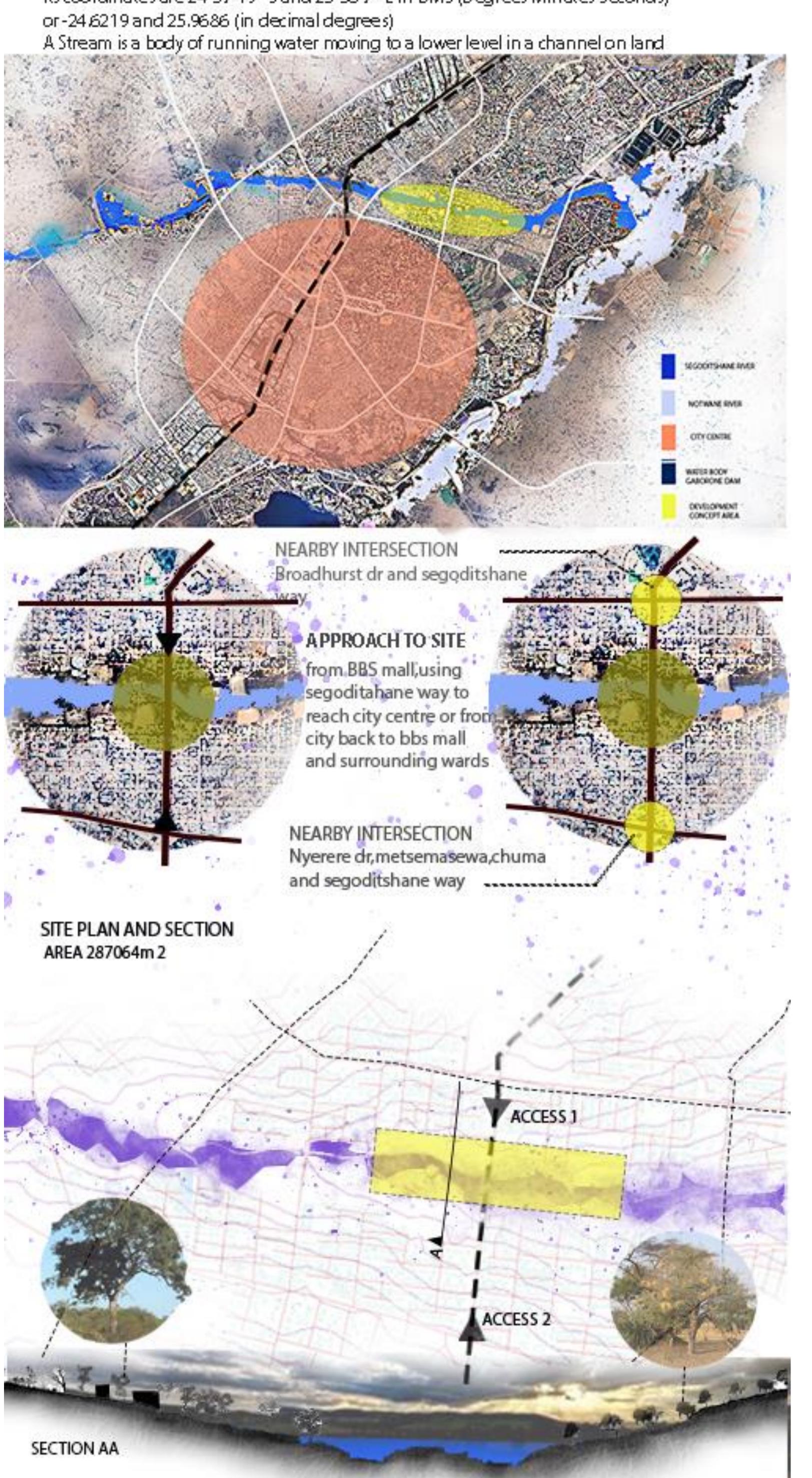




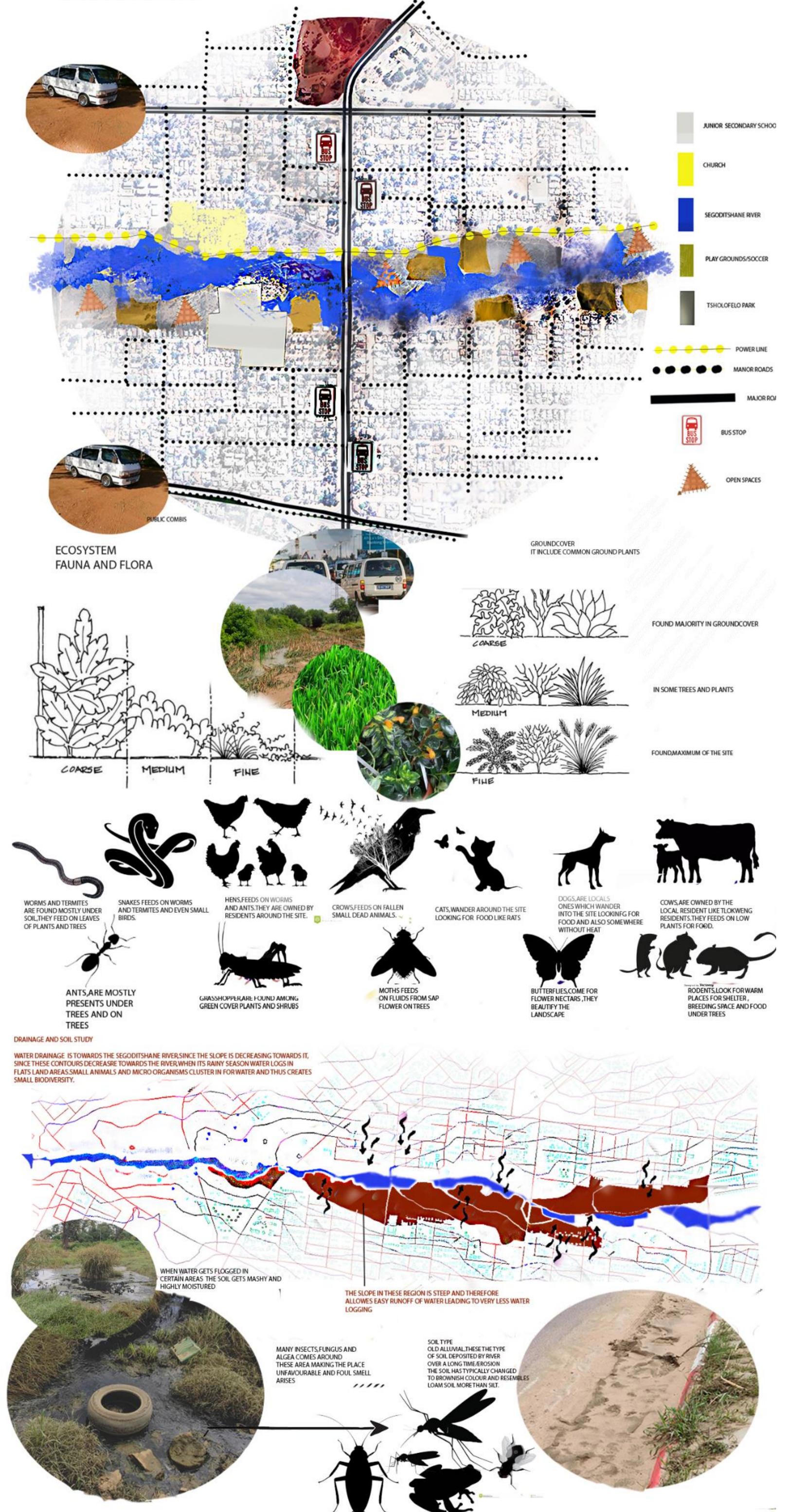


SEGODITS HANE RIVER SITE

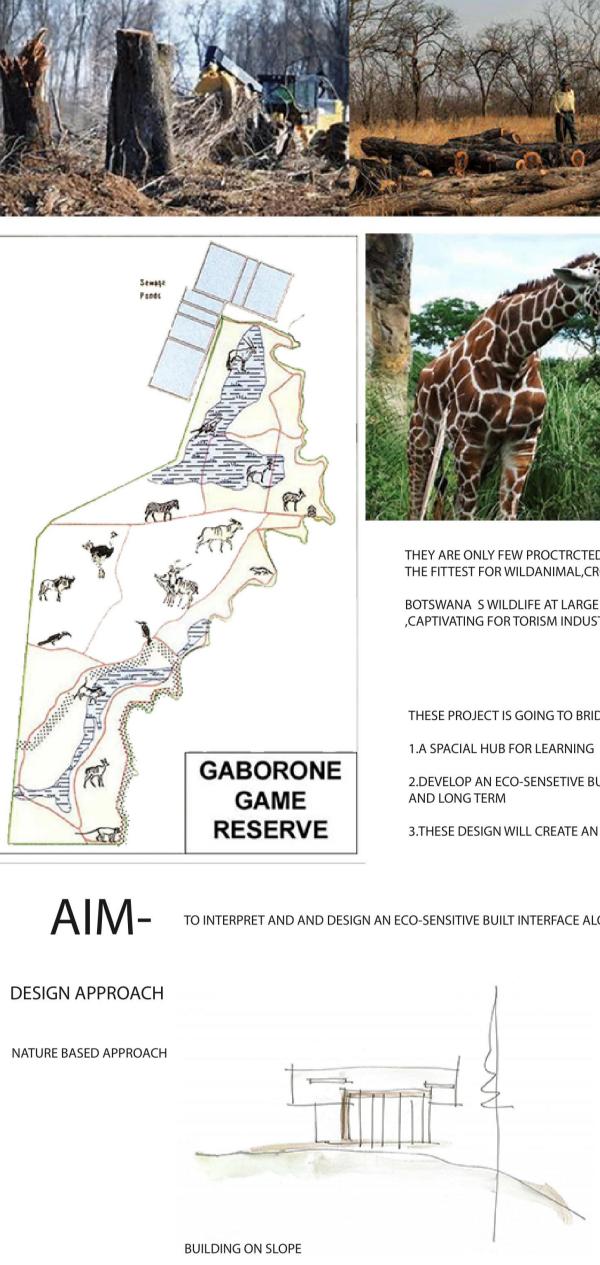
Segoditshane is a stream in Botswana and has an elevation of 970 metres. Segoditshane is situated nearby to the localities Broadhurst Extension 26 and Taung. Its coordinates are 24°37'19" S and 25°58'7" E in DMS (Degrees Minutes Seconds)



USES OF SPACE AND PUBLIC TRANSPORT

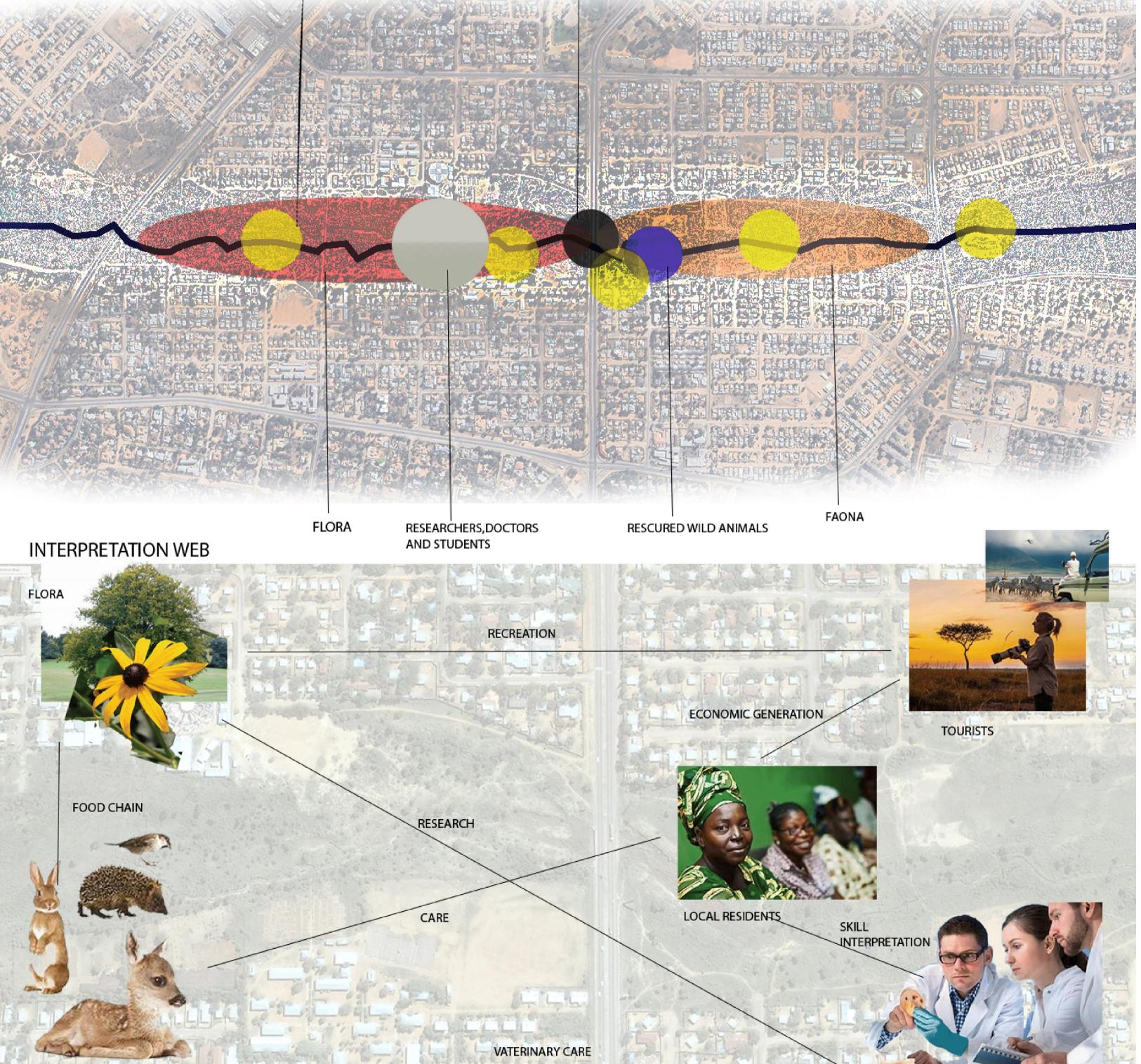


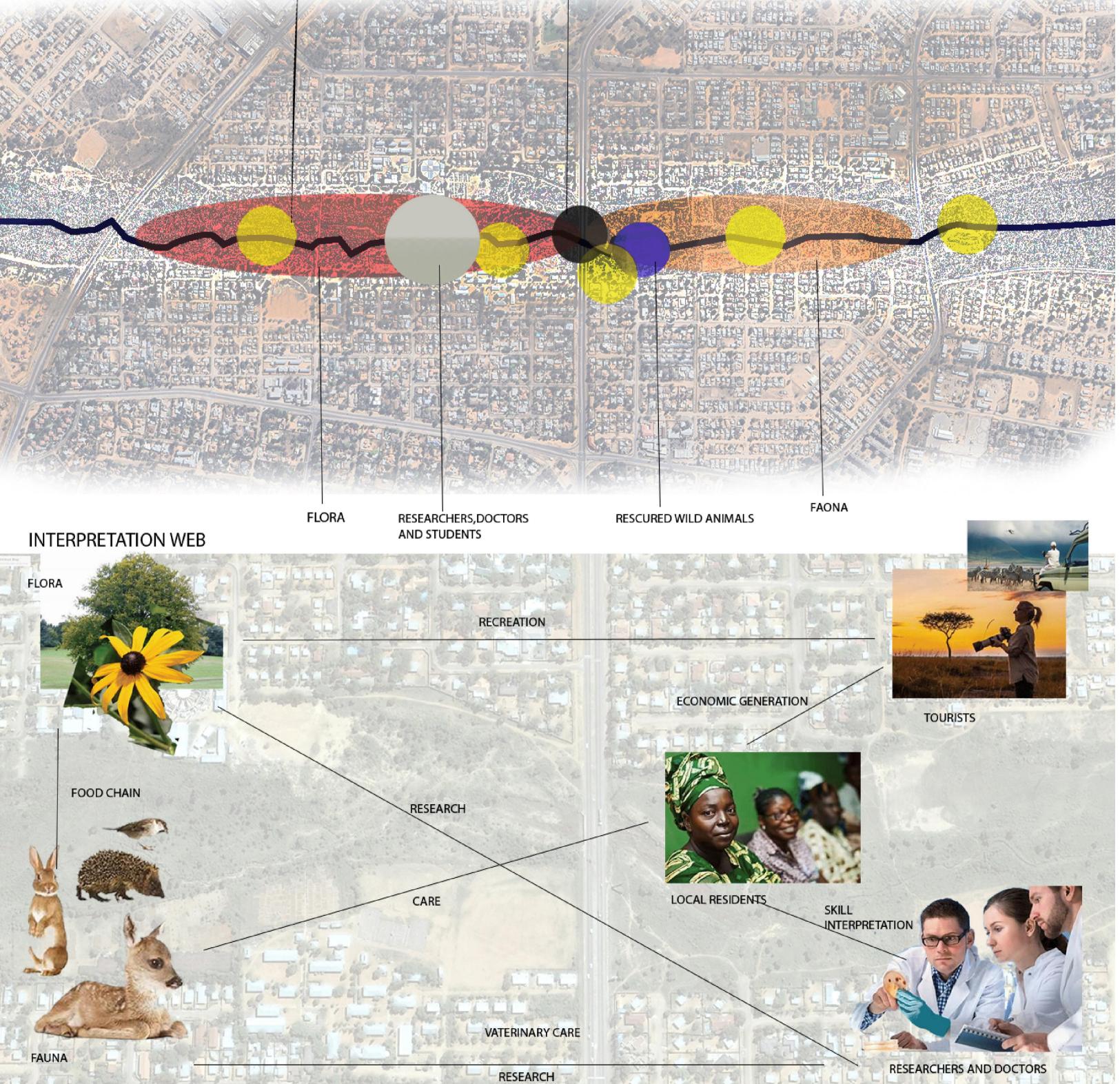




TOURIST, AND VISTORS

THE USERS AND ZONING







OST INDUSTRIAL ERA HAS HAS CONSIDERABLY CONSIDED IMPACTED FORESTRY ALL ACROSS THE WORLD, SEGODITSHANE RIVER STRIP IS ONI F THE PLACES AFEECTED BY HIGH NUMBERS OF TRES BEING CUTTED OWN FOR COMMERCIAL USE AND INDUSTRIAL BY RESIDENTS AND BIG MPANIES, ILLERGALLY AND LEGALLY. AN ARCHITECTURAL INTERFACE WILL CREATE A SPACIAL AND SYMBOLIC

A BETTER NATURAL INTERFACE SHALL OFFERA SIZE APPROPRIATE TO NATURE OF ACTIVITIES IN CONSIDERATION.



THEY ARE ONLY FEW PROCTRCTED WILD ANIMAL SPACES AROUND TOWN, THE BIG ONE BEING GABORONE GAME RESERVE, IT MAY BE THERE BUT IT IS JUST A CHANCE OF SURVIVAL OF THE FITTEST FOR WILDANIMAL, CROWDED AND ANIMALS ARE NOT FREE, FELT LIKE CAGED. BOTSWANA SWILDLIFE AT LARGE HAVE AFFECTED BY VARIOUS FACTORS INCLUDING POACHING, A CONSTANT DEVELOPMENTS OF ROADS NETWORK AND SETTLEMRNT INFRASTRACTURE ,CAPTIVATING FOR TORISM INDUSTRY,THESE ARE SOME OF THE OBSERVATION THAT MAY LEAD TO SOME ANIMALS EXTINCT.

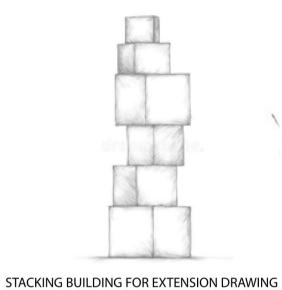
WHY COMBINING THE TWO

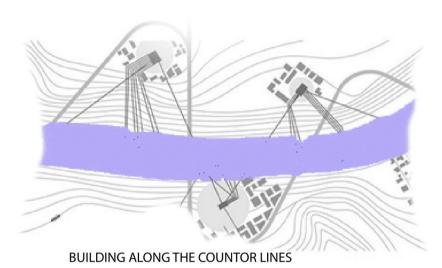
THESE PROJECT IS GOING TO BRIDGE SCIENTIFIC DISCIPLINES TOGETHER AND CREATING

2. DEVELOP AN ECO-SENSETIVE BUILT ENVIROMENT WITHIN SEGODITSHANE FOREST BOUNDARIES TO RESCUE AND PROVIDE THE VATERINARY CARE FOR WILD ANIMALS ON SHORT TERM

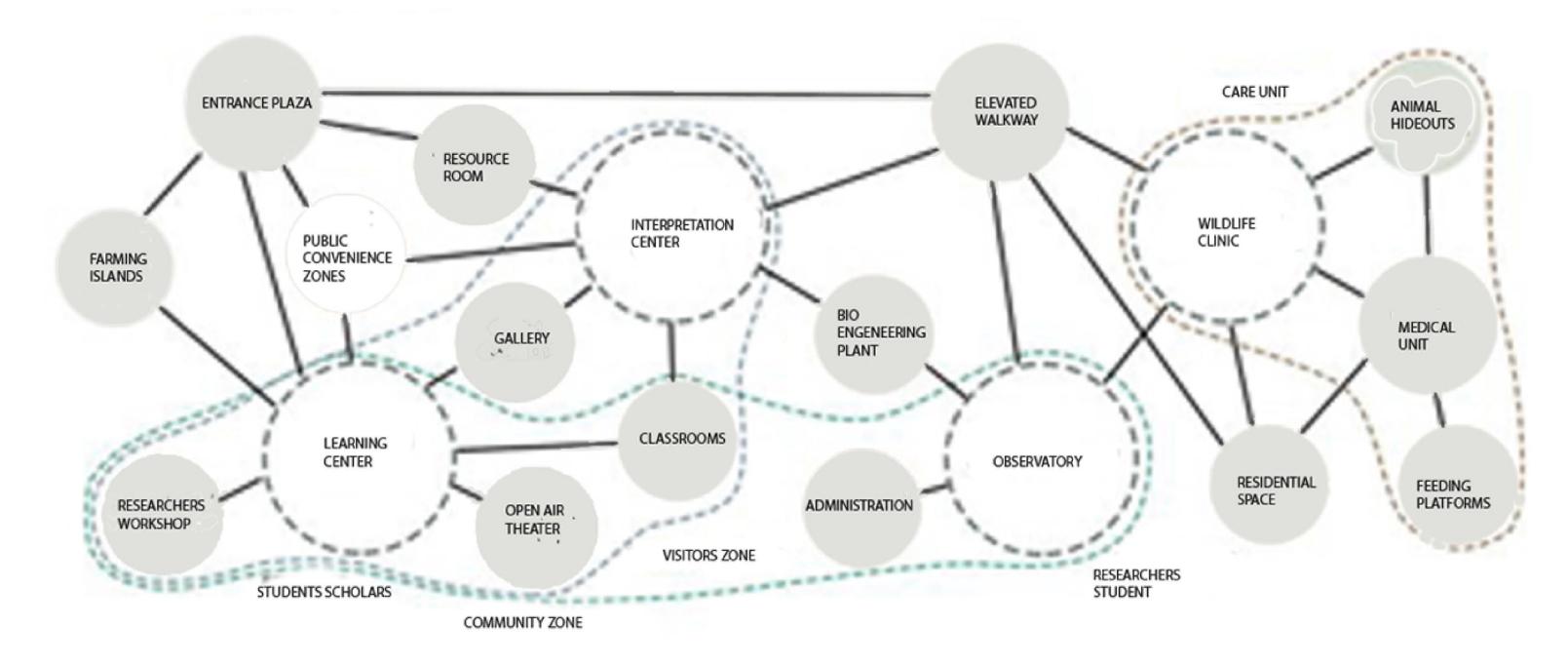
3. THESE DESIGN WILL CREATE AN EFFICIANT METHOD OF STUDYING WILD ANIMALS AND FOREST, EXPLORE THE PROCESS OF LEARNING THROUGH NATURAL ECO-SYSTEM

TO INTERPRET AND AND DESIGN AN ECO-SENSITIVE BUILT INTERFACE ALONG SEGODITSHANE RIVER STRIP FOR INTERPRETATION AND LEARNING SPACES ALONG ENHANCING THE CARE OF WILD ANIMALS





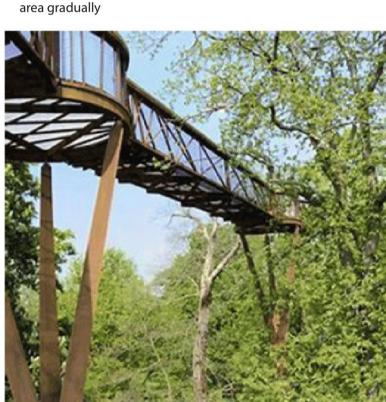
UNDER GRADUATE AND GRADUATE RESIDENT

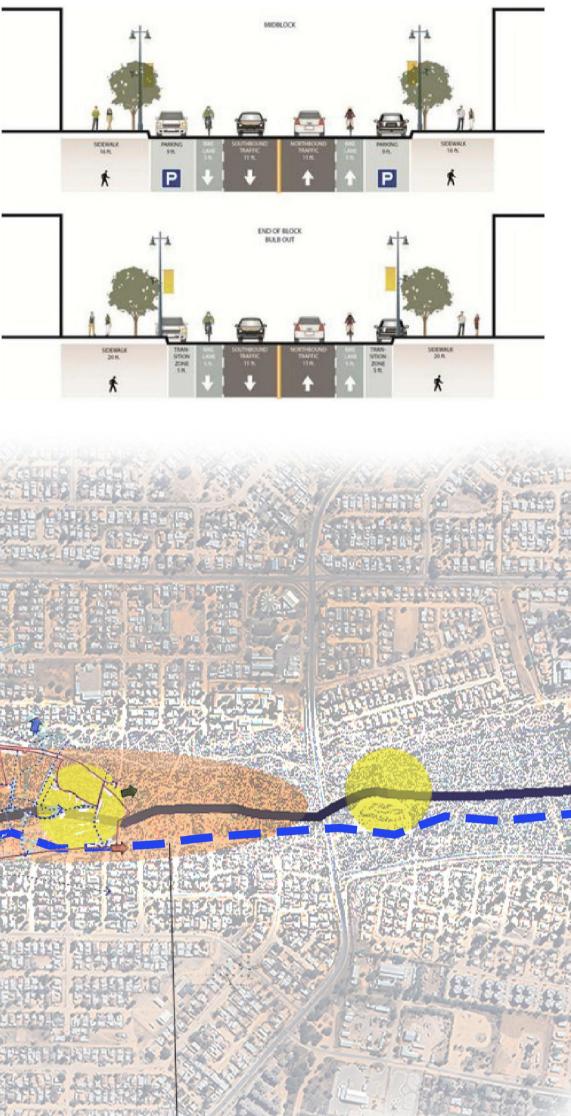


	SPACE TYPE	SPACE NAME	AREA IN SQM	NO OF PEOPLE
ZONE 1		PLAZA/ MARKET AREA	300	30
		FOYER	80	15
		SECURITY AREA	20	1
	1.ADMINISTRATION	-CHIEF FINANCIAL	20	2
		OFFICER	1.0000	2
		-ADMINISTRATIVE STAFF	50	4
		-RECEPTION DESK	20	1
		-KITCHENETTE	150	10
		-BOARDROOM	50	20
	2.RECYCLING	-BIO ENGEENERING	100	25
	3.MARKET	-COURTYARD	80	40
		-MARKET AREA (STALLS)	100	30
		-PARKING		
		-CIRCULATION		
		-GATHERING (SITTING)		50
		-ABLUTIONS		
	4.STUDENT	- HOUSING	140	
		-COMMON ROOM		
		-CAFÉ/ RESTAURANT	200	30
		-BATHROOM		
		-SERVICE ROOM	30	6
	5.GALLERY	-MANAGER OFFICE	25	2
		-OPEN DISPLAY	80	20
		-MAIN DISPLAY	250	40
ZONE 2		PLAZA		50
		FOYER	40	
		SECURITY	20	2
		PUBLIC INFO STAND	15	1
		RECEPTION	20	1
	6.EDUCATION	-ADMINISTRATION	20	1
		-SEMINAR ROOM	100	30
		-LIBRARY	70	25
		-AMPITHEATER	150	50
		-MULTIPURPOSE HALL	60	30
		-LABS	150	35
		-CLASSES	80	25
		OBSERVASTION TOWER	100	25
	7.URBAN	-PRODUCTION	200	50
	ARGRICULTURE	-STORAGE (produce & tools)	50	5
		-MANUFACTURING	35	4
		-PACKAGING	70	1
	8.WILDLIFE CLINIC	-MEDICAL UNIT	150	4
	CONTRACT & CENTRE	SEEDING DI ATTODUAS	150	1.2

STRATEGIC PLAN

Improvements to public transport system and encourage people to travel by walking and cycling, car usage in the area will decrease. The number of car repair spots in the light industry quarter can be reduced and make space for more job oportunities in creative industries . Also make space for mixed development such as introduce commercial, service, or live-work unit functions to improve the economic value of the







THEME ANALYSIS

RETHINKING STUDENT HOUSING ON ECOLOGICAL SITE

Ecological houses are dwellings that offer the best conditions for construction and use so as to avoid environmental impact as much as possible. These dwellings are designed to be sustainable with the environment because they use environmentally non-aggressive materials during their manufacture.



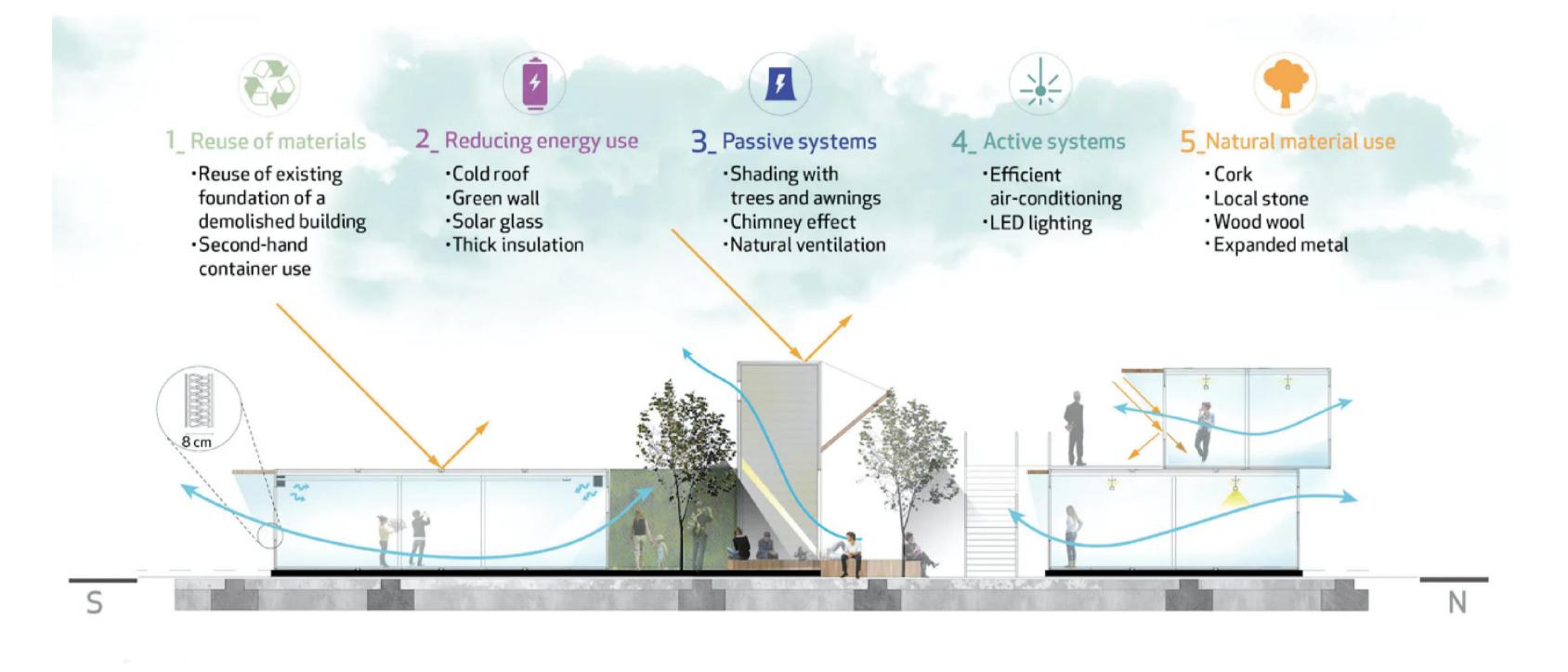
Among other things, ecology is the study of:

- Life processes, interactions, and adaptations The movement of materials and energy through living communities The successional development of ecosystems Cooperation, competition, and predation within and between species Patterns of biodiversity and its effect on ecosystem processes



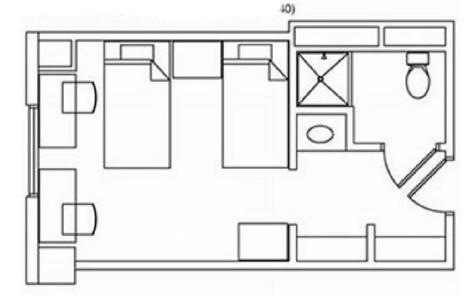
Seven principles of ecological design

- e advanced:

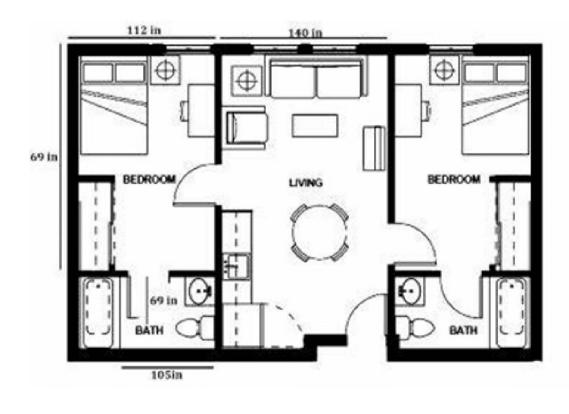


OLD DORMS











- The abundance, biomass, and distribution of organisms in the context of the environment

Designing ecological and sustainable architecture includes holistic, multi-directional activities ensuring optimal use conditions, including health, hygienic, and aesthetic conditions, with minimal interference in the natural envi- ronment and low consumption of natural resources.Lorem Ipsum



(1) the need to meet the inherent needs of humans and their economy;

(2) the requirement to sustain the integrity of the structure and function of both natural and managed ecosystems; (3) the appropriateness of emulating the inherent designs of nature in anthropogenic management systems; (4) the need to make progress to a sustainable economy through greater reliance on renewable resources and more focus on recycling, reusing, and efficient use of materials and energy;

(5) the use of ecological economics (or full-cost accounting) to comprehensively take resource depletion and environmental damage into consideration and thereby address issues of natural debt;

(6) the need to conserve natural ecosystems and indigenous biodiversity at viable levels; and (7) the desirability of increasing environmental literacy to build social support for sustainable development, resource conservation, and protection of the natural world.

The Five Struggles Of Sharing A Dorm Room

1. Getting Ready in the Morning. When sharing a room, getting ready in the morning could be one of the most challenging parts of the day. ... 2. Having Alone Time. If your dorm only

consists of the one room for you and your roommate, having time to yourself seems almost impossible. ..

- 3. Having Opposite Schedules. ...
- 4. Having Friends Over. ... 5. Making Phone Calls.

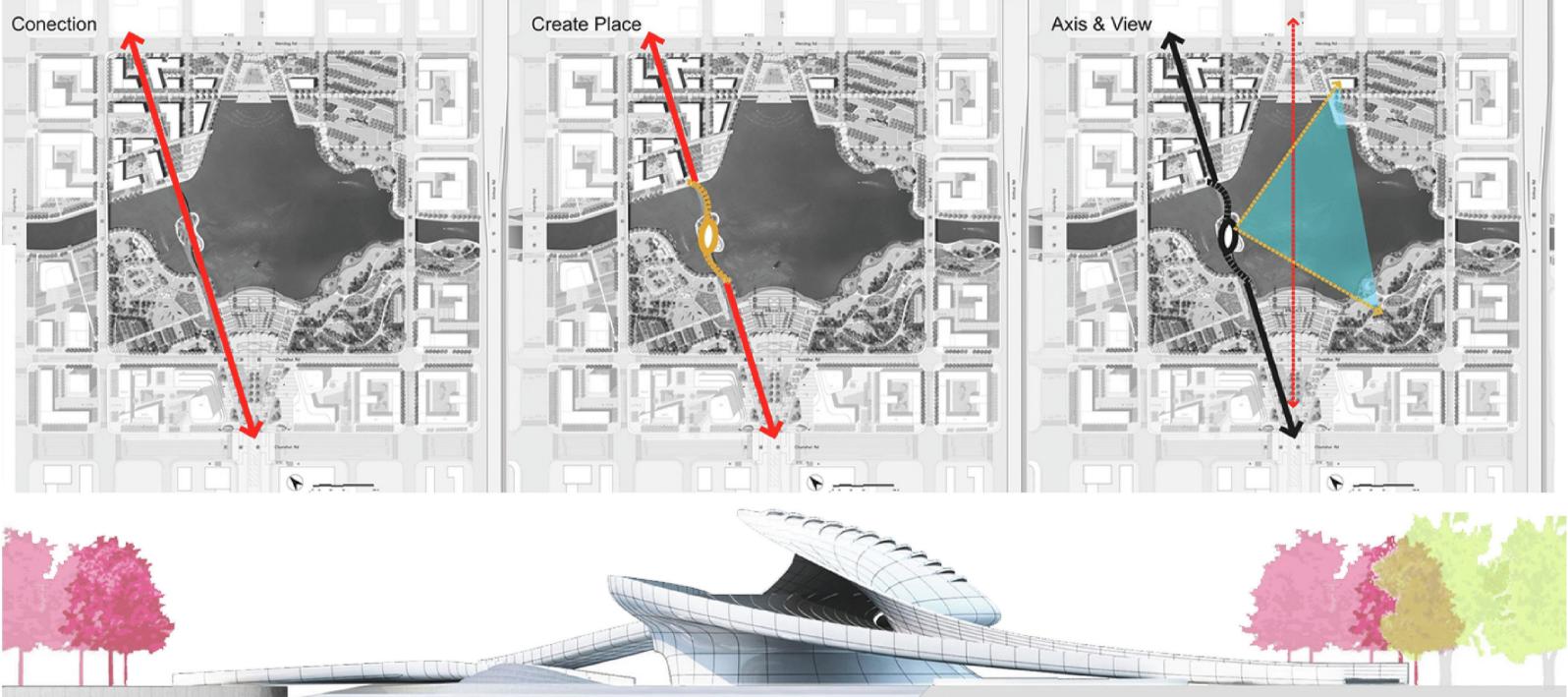
Modern Dorms use Technology to Expand their Reach

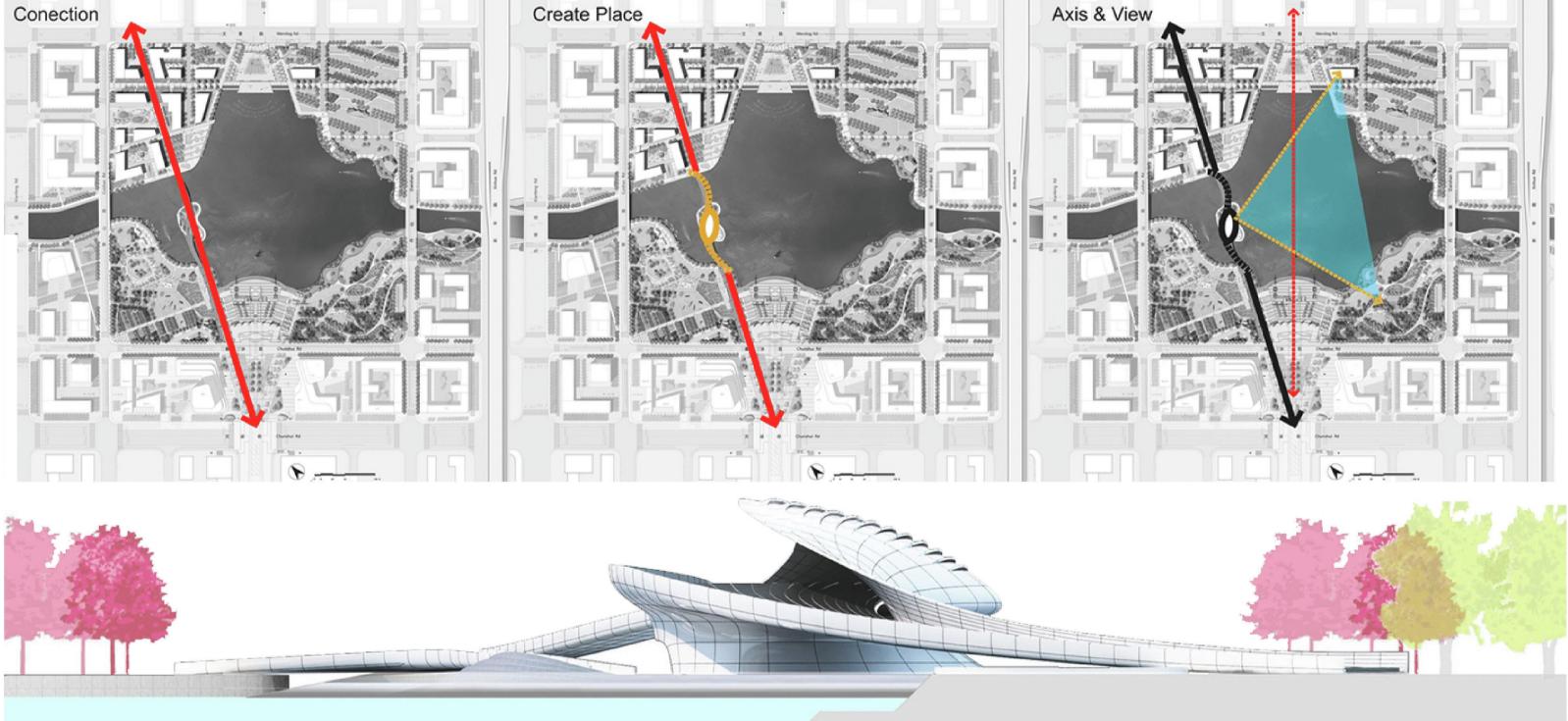
That means that high-definition television screens, video conferencing tools and high-speed wireless connectivity are important, along with other option s such as moveable furniture.

CASE STUDY 1

LL&A Design Group has developed an exciting contemporary bridge design as an architectural highlight of Wuxi Xidong Park, located in Jiangsu province, China. The bridge is planned to be the main connection between the north and south foreshores of the parks lake and allows visitors access to a small island destination that commands views over the water as well as café facilities and pocket gardens. More images and architects' description after the break.

The important position, jutting out over the central water body, encouraged a dynamic design response. The design team has envisioned a signature iconic structure that is attractive, has a flowing modern form expressing the importance of Wuxi's relationship with water and is functional in its connections to the island, foreshores and allowing boats to pass underneath its elevation.orem lpsum





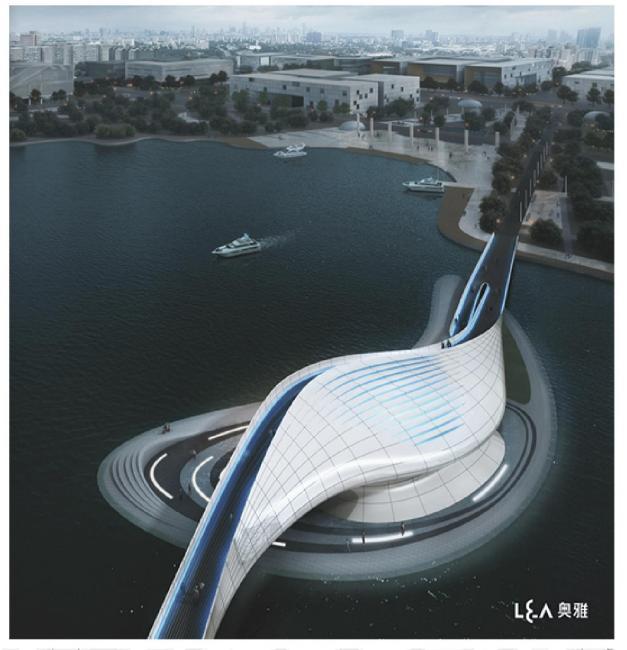
ENERGY PLANT KEMPTEN, GERMANY Architects: becker architekten Area : 1040 m² Year : Mechanical Engineering : VA_Tech Escher Wyss GmbH Steel Construction : Erhard Muhr mbH Consultants : Mueller BBM GmbH, TIWAG, Tecum, IB Reiner Krebs, Kunisch Blitzschutz, Harald Kopp Structural Engineer : RMD Consult, Konstruktionsgruppe Bauen

The starting point of the design considerations was the symbolic representation of the water dynamics, which change from a calm state at the water inlet to the churning and pitching of the water near to the turbines, before subsequently returning to a calm state after cleaning with a continuous wrapping that dives underneath a historical steel – framework of a former bridge for wires, in order to avoid its total demolition

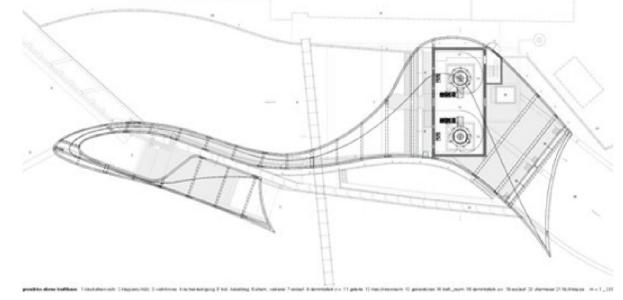


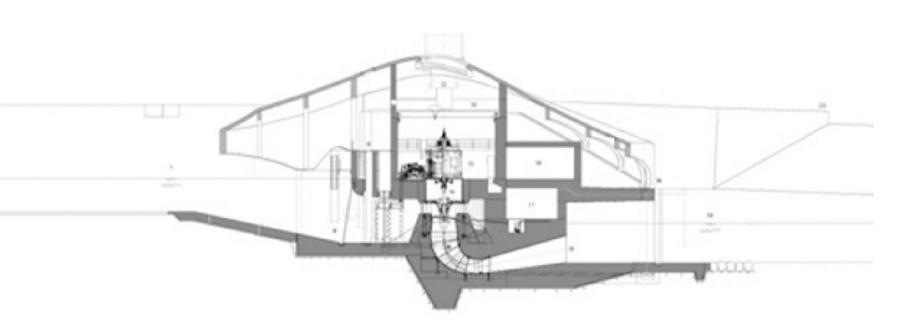




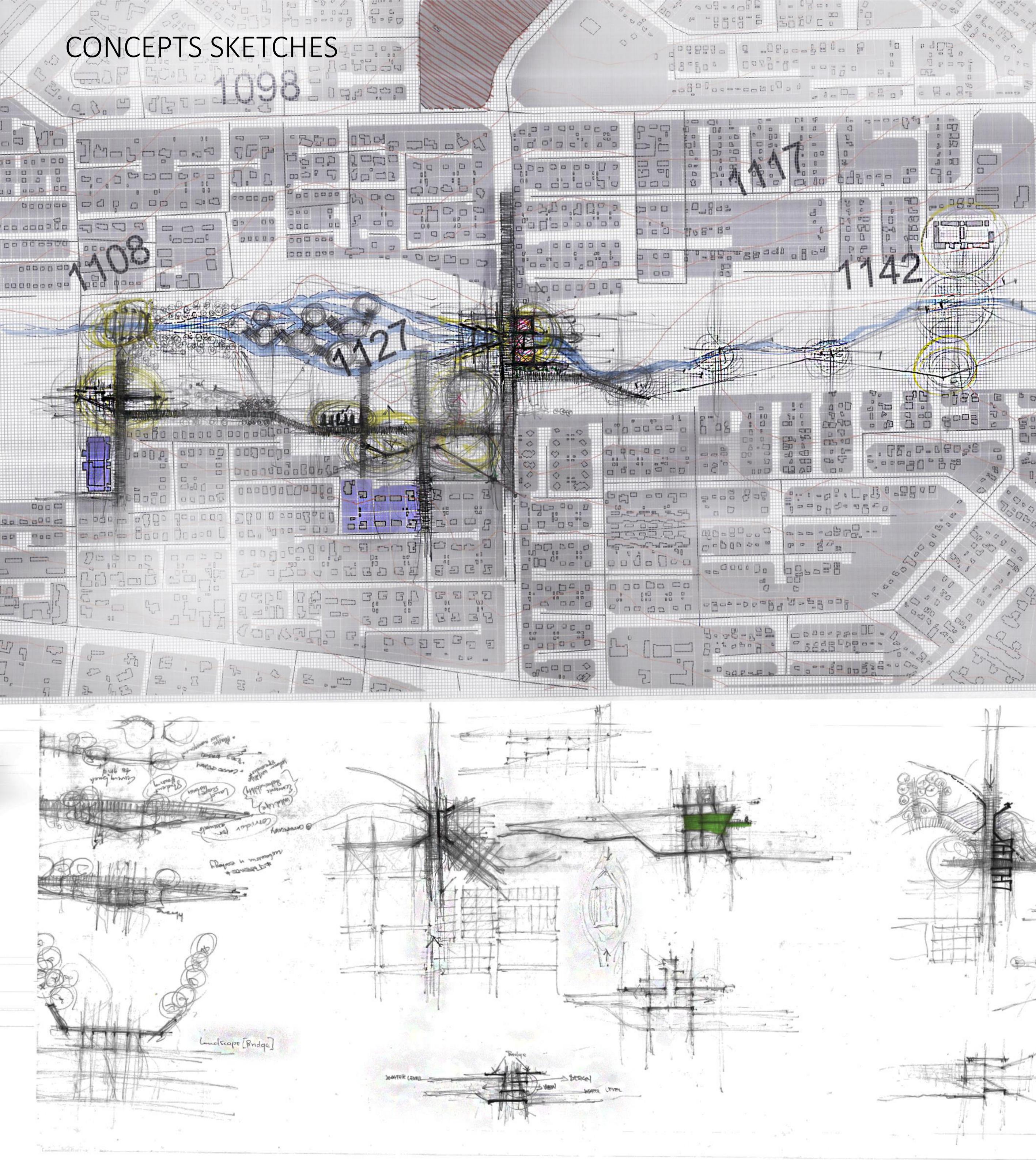








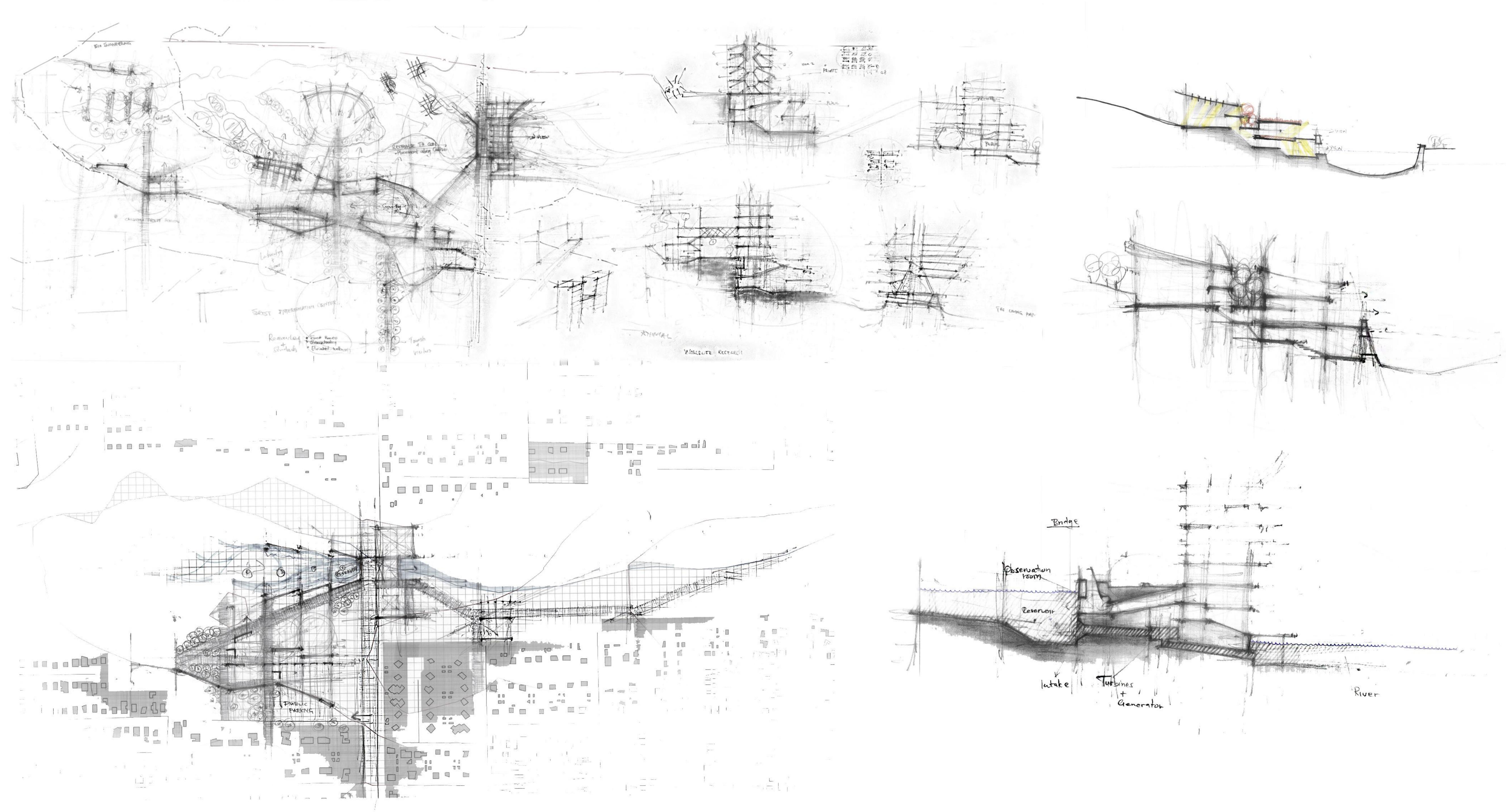
scheitt längs kraftbaus 7 einkuf 8 einkufrschen is demmtafeln ow 10 krafteln 12 matchinenmum 13 genemtonen 14 tarbinen. 15 saugtchiauch 16 traft-seum 17 kabelleiker 18 demmtafeln um 19 autiauf 20 ufertmaser m.= 1_200



.g. 9... gedde" 8-69929000000 0000000 000 BEDREVERU



DEVELOPMENTS



MASTER PLAN



BIO ENGINEERING ____ PLANTS ISLAND







LEARNING SPACE





DAM=GRAVITATIONAL PRESSURE=TURBINES=ELECTRICAL ENERGY

GIVING BACK TO THE GRID

R

A



_ _ _ _ _ _

FEEDING PLATFORMS

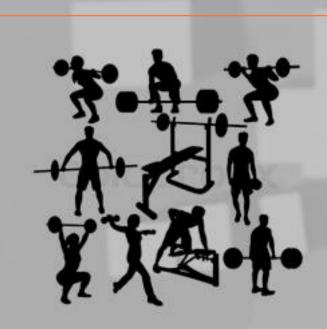


OBSERVETORY DECK



RESTAURANT OPEN PUBLIC GYM

© CanStockPhoto.com

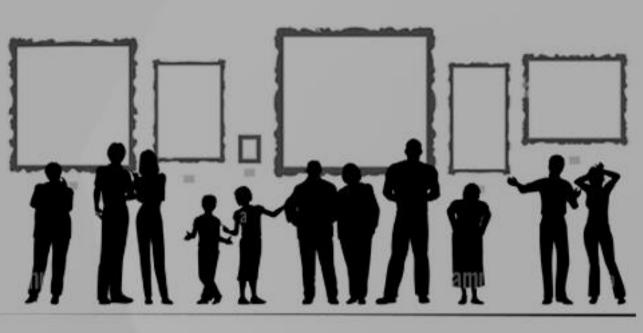




RESIDENTIAL SPACE



PASSIVE **RECREATION PARK**



.

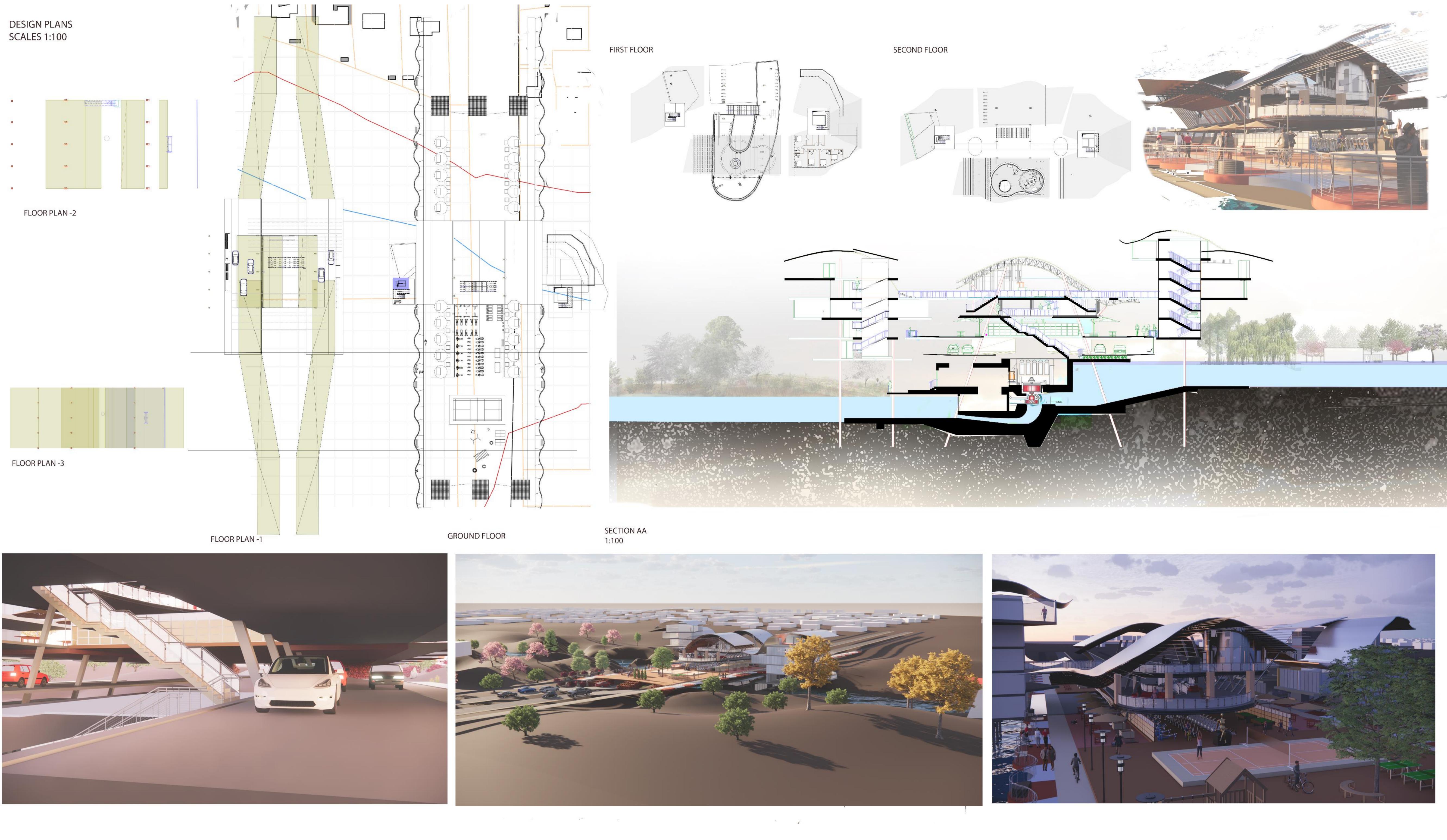
GALLERY

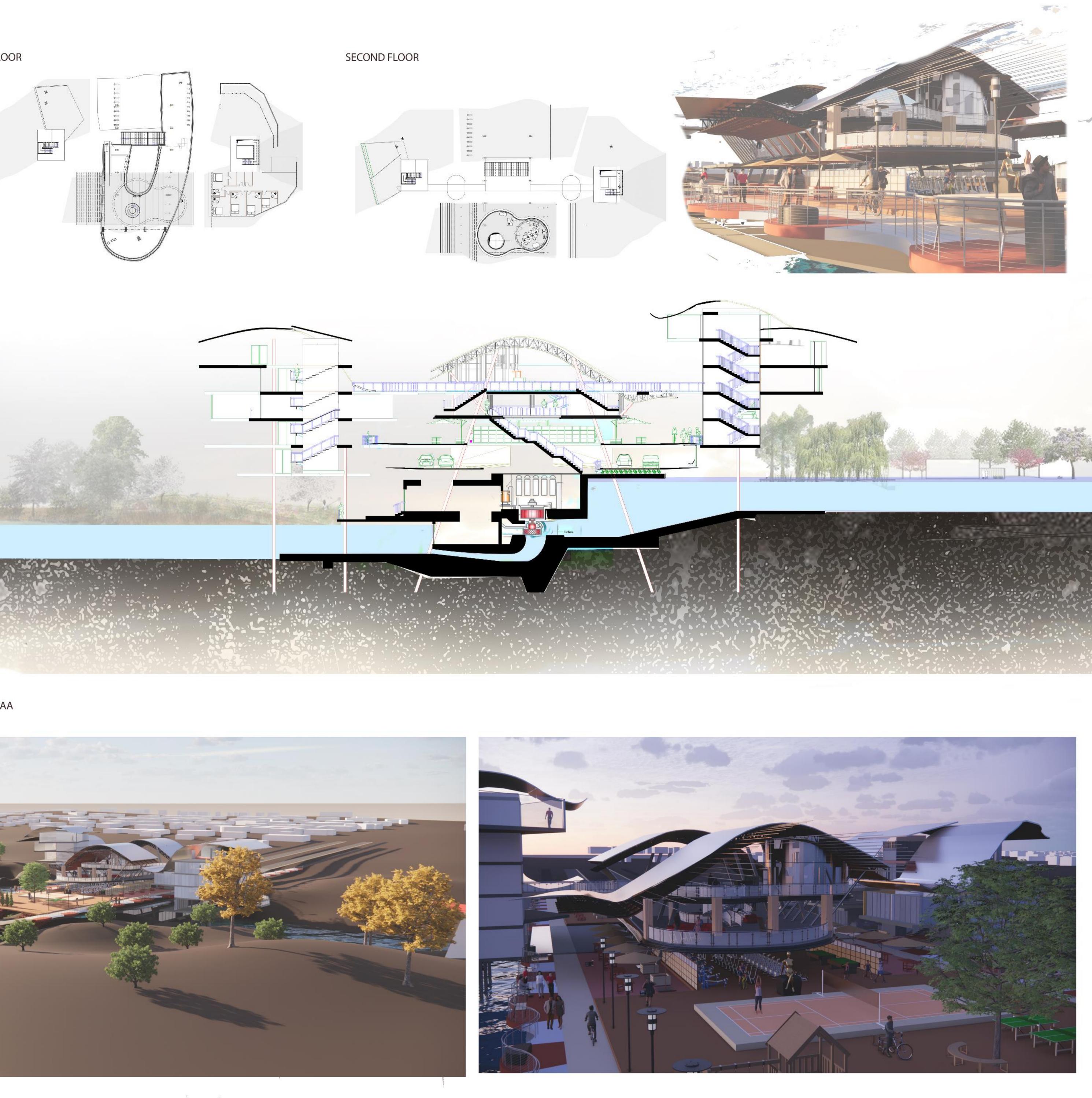


WALKWAY TO GABORONE GAME RESERVE



CARE UNIT/VATERINARY CLINIC





DESIGN FACADE

