IIM Bangalore UG Campus

18/06/2025

Presented By DDF Consultants

DDF Consultants
Private Limited

ABOUT US

DDF Consultants
Private Limited

redefining future

75 Years

Improving lives

TEAM

Team DDF comprises of:

Architects | Engineers | Quantity Surveyors | Surveyors | Healthcare Planners

Service Engineers | Urban Planners | Regional Planners | GIS Experts

VERTICALS

Planning

Regional Planning

Physical Planning

Environmental Planning

Project feasibility studies

Project evaluation studies

Healthcare

Project Conceptualisation

Infrastructure Planning

Service Planning

Equipment Planning

Hospital Operations

Architecture

Project Conceptualisation

Building Architecture

Interior Architecture

Project Management

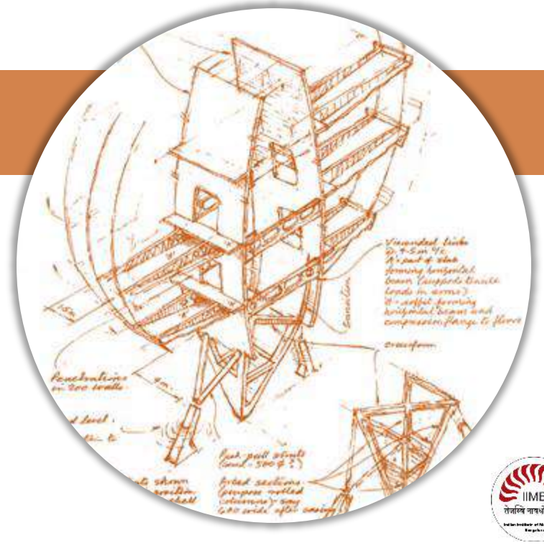
Engineering

Structural Engineering

Disaster Resistant Engineering

Geo-technical Engineering

Services Design



AUTHENTICATION AND AWARDS

PCMS

Certificate of Registration

This is to certify that
The Quality Management Systems
of

DDF CONSULTANTS PVT. LTD.

at

501, B - 9, I.T.L. TWIN TOWERS,
NETAJI SUBHASH PLACE, PITAMPURA,
DELHI - 110 034 (INDIA)

Has been found to conform to the Quality Management System Standard:

ISO 9001:2015

This certificate is valid for the following Product or Service ranges:

PROVIDING PLANNING, ARCHITECTURE AND ENGINEERING SERVICES

CERTIFICATE NO. : PCMS/QMS/B1019
ISSUED ON : 18/06/2020 — 1ST SURVEILLANCE DUE ON: 18/05/2021
VALIDITY DATE : 17/06/2023 — 2ND SURVEILLANCE DUE ON: 18/05/2022

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AUTHORISED BY
CHAIRMAN / DIRECTOR

ASCB Accreditation Services Worldwide — UK
ACC. NO. 201901-01

GA GLOBAL ACCREDITATION

IRQAO

P.C MANAGEMENT SYSTEM PVT. LTD.
134-A, IIND FLOOR, TAIMOOR NAGAR,
NEW FRIENDS COLONY, NEW DELHI – 110 065 (INDIA)
THIS IS SINGLE-SITE CERTIFICATION
E-MAIL – PCMS@PCMSWORLD.COM
WEBSITE : WWW.PCMSWORLD.COM

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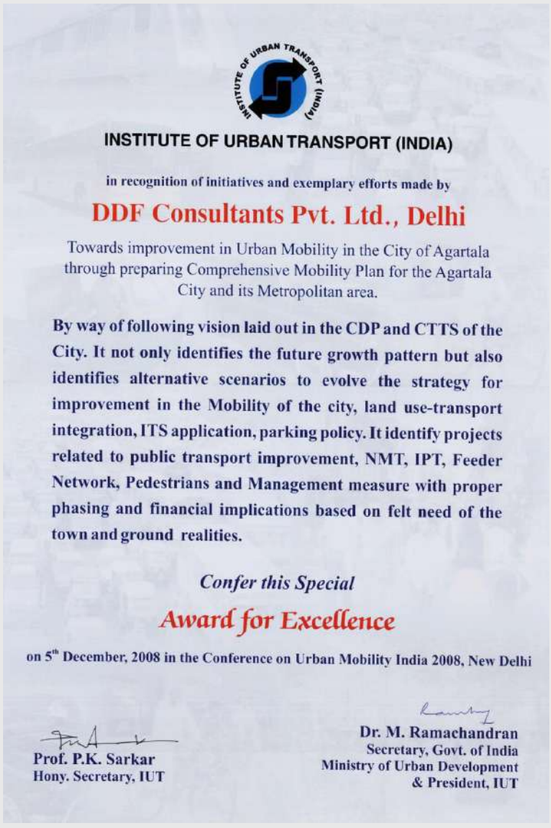


INSTITUTE OF URBAN TRANSPORT (INDIA)

in recognition of initiatives and exemplary efforts made by

DDF Consultants Pvt. Ltd., Delhi

Towards improvement in Urban Mobility in the City of Agartala through preparing Comprehensive Mobility Plan for the Agartala City and its Metropolitan area.

By way of following vision laid out in the CDP and CTTS of the City. It not only identifies the future growth pattern but also identifies alternative scenarios to evolve the strategy for improvement in the Mobility of the city, land use-transport integration, ITS application, parking policy. It identify projects related to public transport improvement, NMT, IPT, Feeder Network, Pedestrians and Management measure with proper phasing and financial implications based on felt need of the town and ground realities.

Confer this Special

Award for Excellence

on 5th December, 2008 in the Conference on Urban Mobility India 2008, New Delhi

Prof. P.K. Sarkar
Hony. Secretary, IUT

Dr. M. Ramachandran
Secretary, Govt. of India
Ministry of Urban Development
& President, IUT

LOCATIONS

Branch Offices:

Dehradun Raipur Patna Kolkata Bhilai Guwahati Bhubaneswar Leh, Ladakh
Mumbai Agartala Kanpur Hyderabad Ranchi Shimla Puducherry Jammu Tripura
Srinagar Lucknow

New Delhi (Head Office)

501, B-9, ITL Twin Towers,
Netaji Subhash Place, Pitampura,
New Delhi-110034
Phone: 011-47400500 (100 lines)
Fax: 011-47400555

Dubai (UAE)

Dubai Outlet mall,
Dubailand
Al-ain Road,,
Dubai, UAE
Phone: +971 50 3642062

Queensland, Australia

Mode Design Corp Pty Ltd
ABN 65 112 807 931 of 78
Annerley Road,
Woolloongabba,
Queensland 4102
Australia

KEY STATS

States Covered
19

Staff Strength
250 +

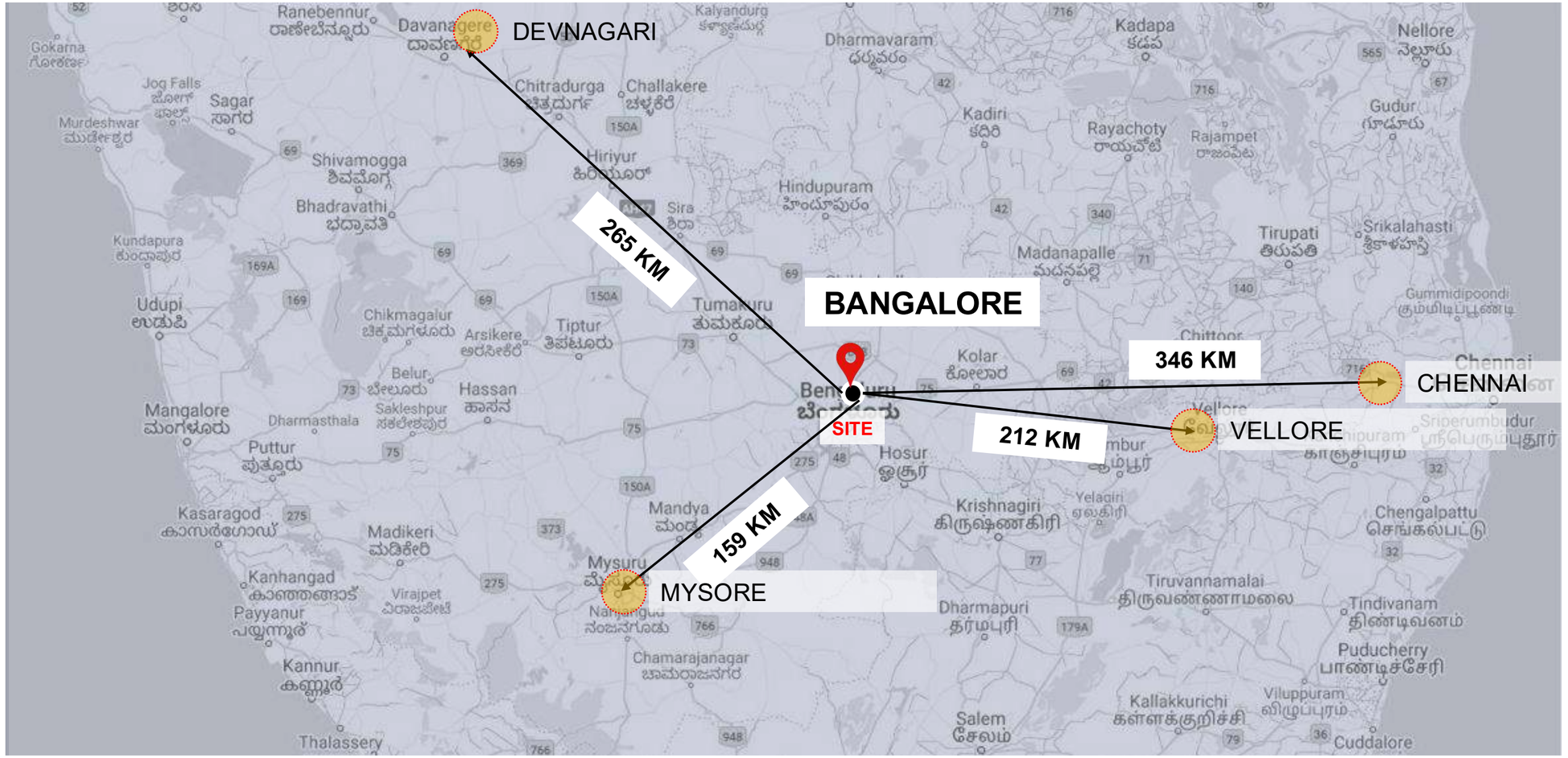
Average Annual Turnover
50 Cr +

Projects Delivered
250 +

Empaneled as Architect Consultant in CPWD under Category I – Project Cost of 1200 Cr

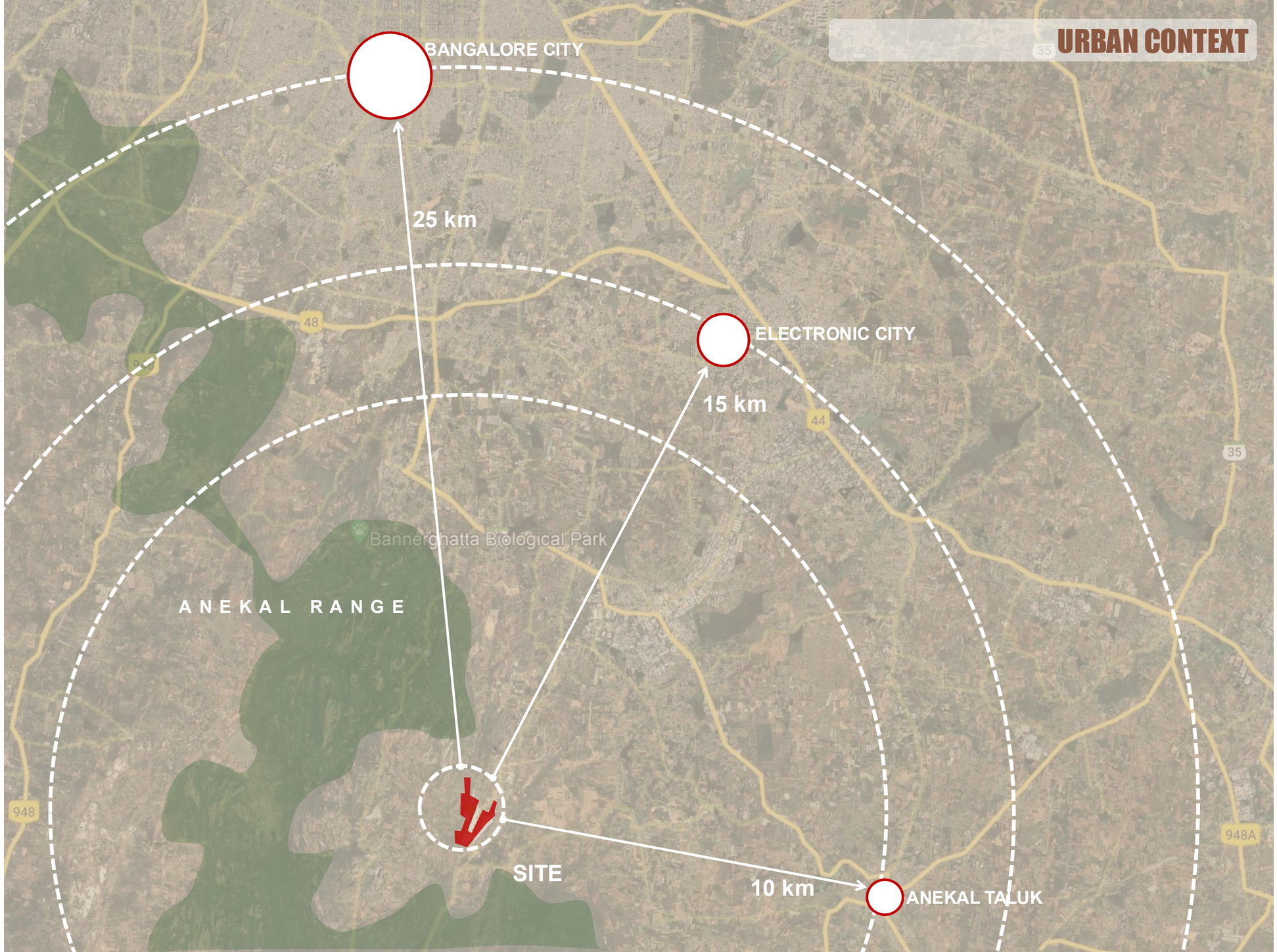
PROJECT OVERVIEW

CONNECTIVITY

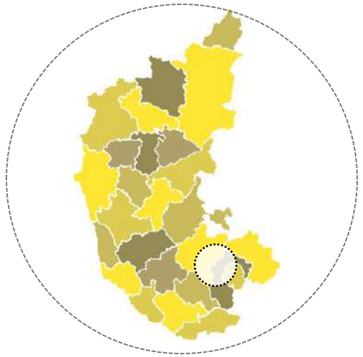


CONNECTIVITY

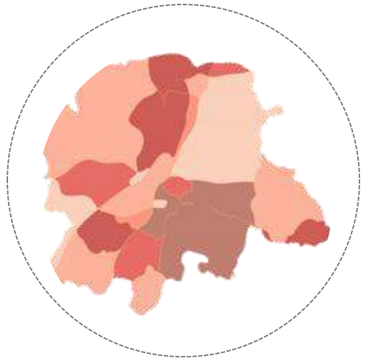
URBAN CONTEXT



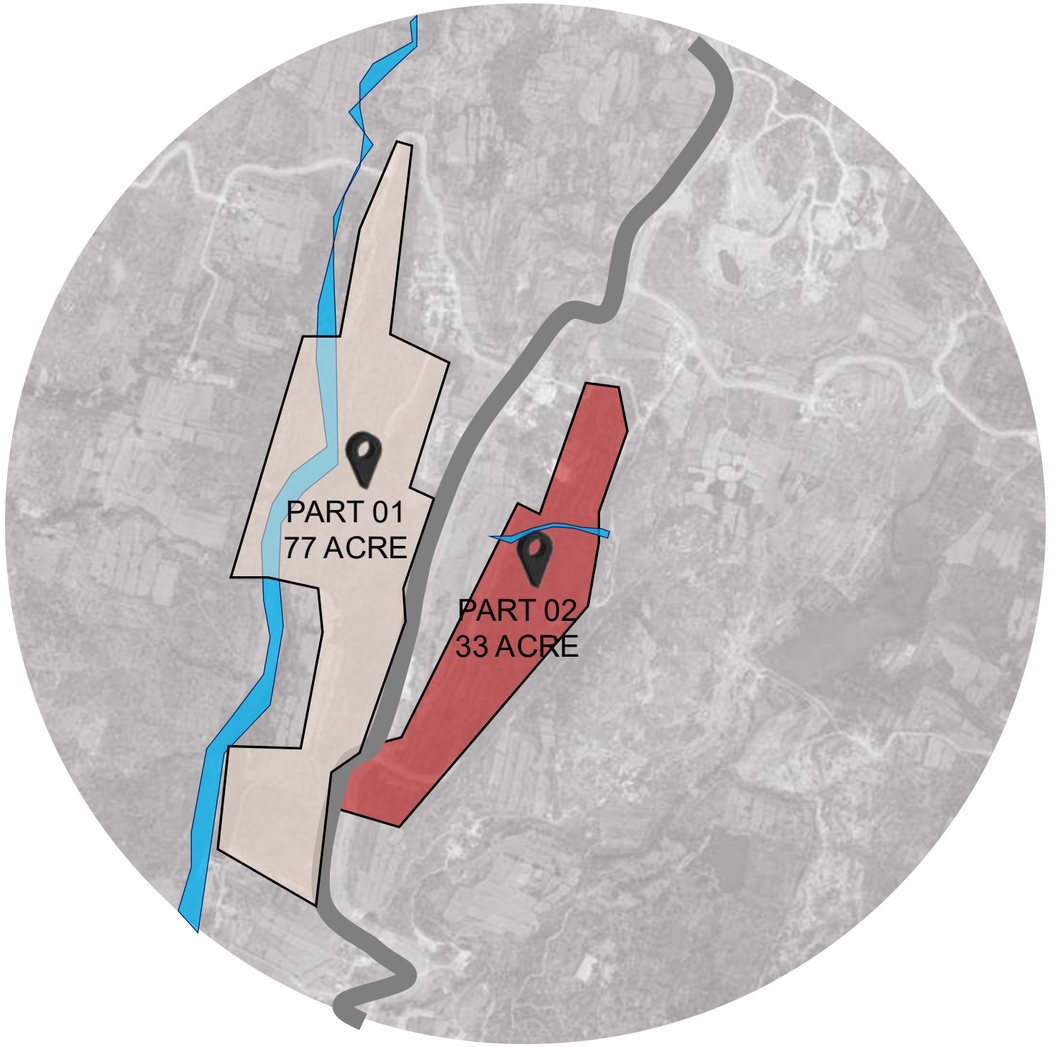
INDIA



KARNATAKA



BANGALORE



1. **Proposed Site**: **PHASE 1 = 33 acres**

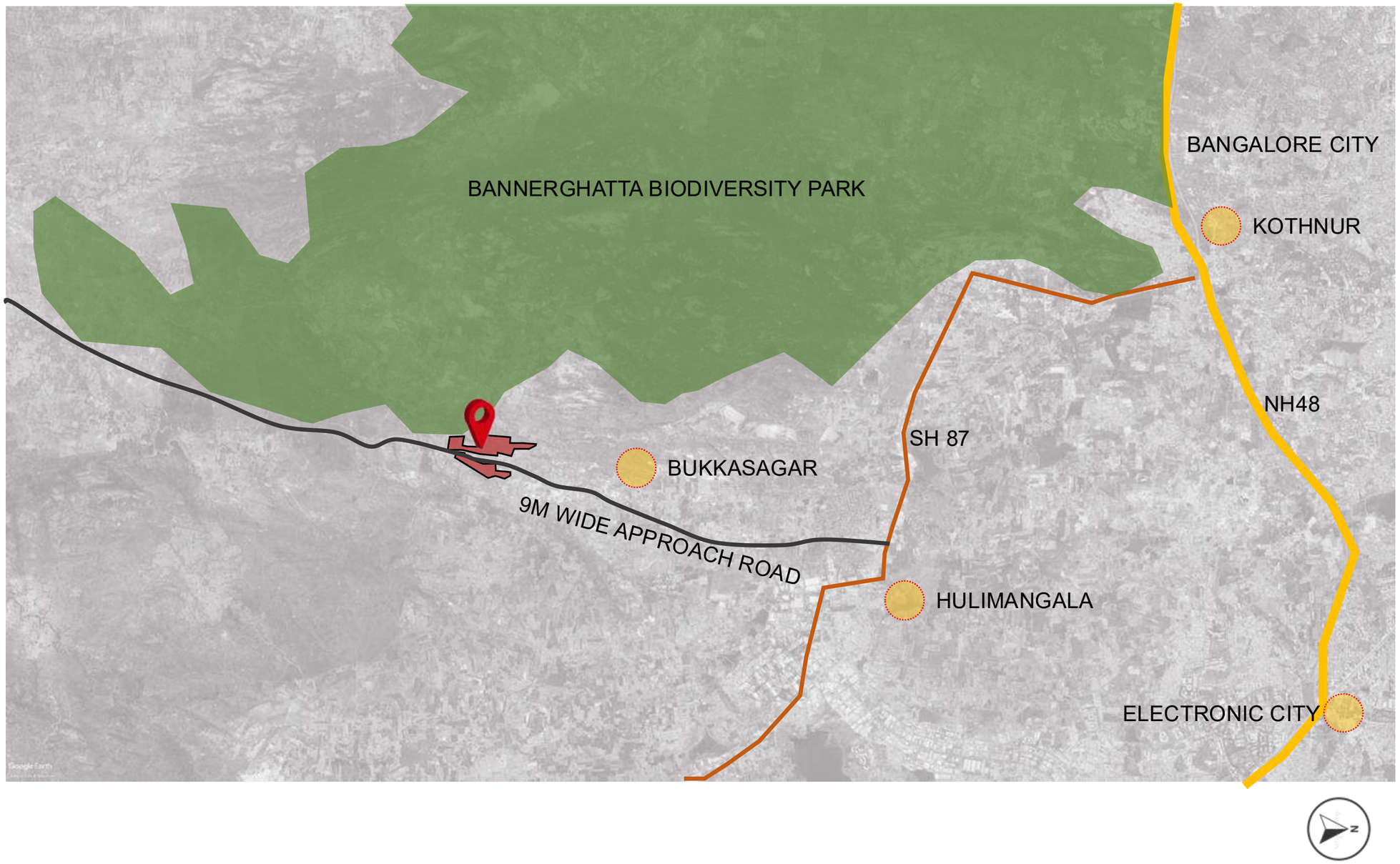
2. Proposed Campus location : **Bannerghatta, Bangalore**

SITE PROFILE

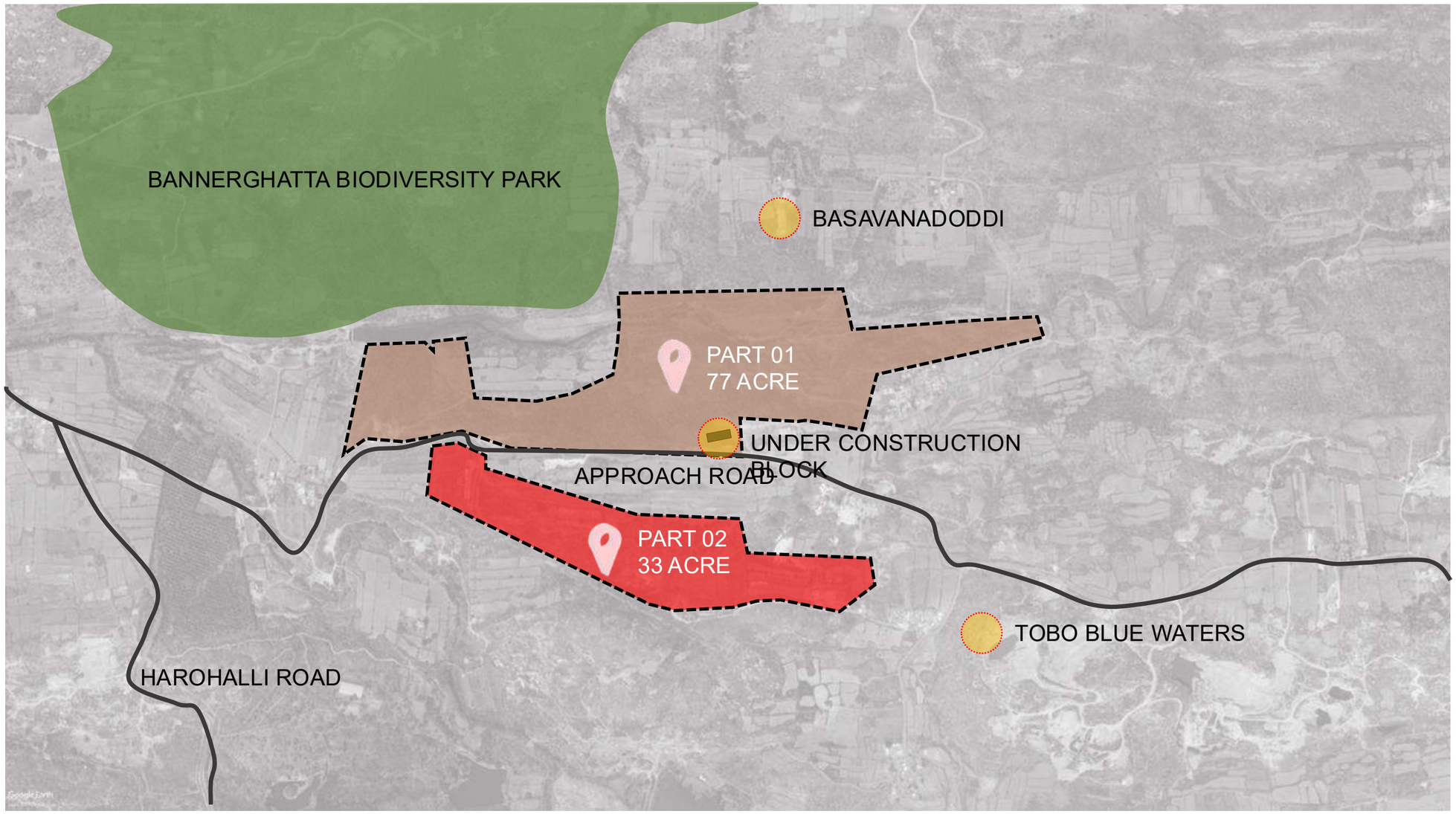
SITE PROFILE

PHASE 1 SITE

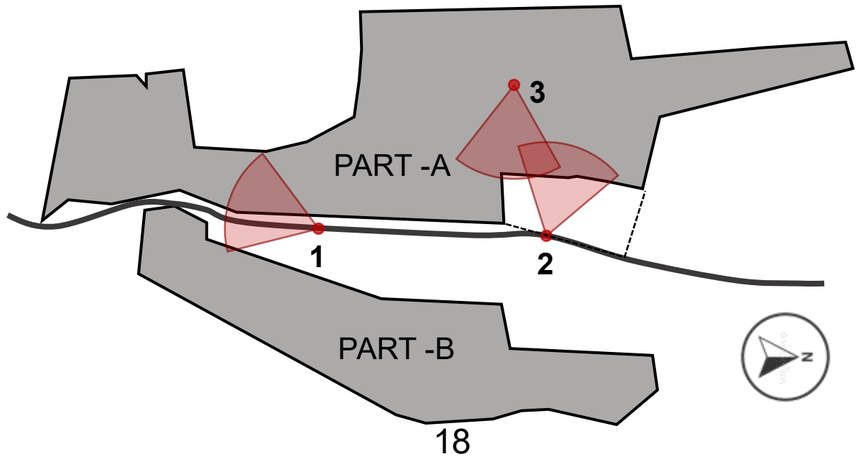
APPROACH


BANNERGHATTA BIODIVERSITY PARK
BANGALORE CITY
KOTHNUR
NH48
SH 87
BUKKASAGAR
9M WIDE APPROACH ROAD
HULIMANGALA
ELECTRONIC CITY

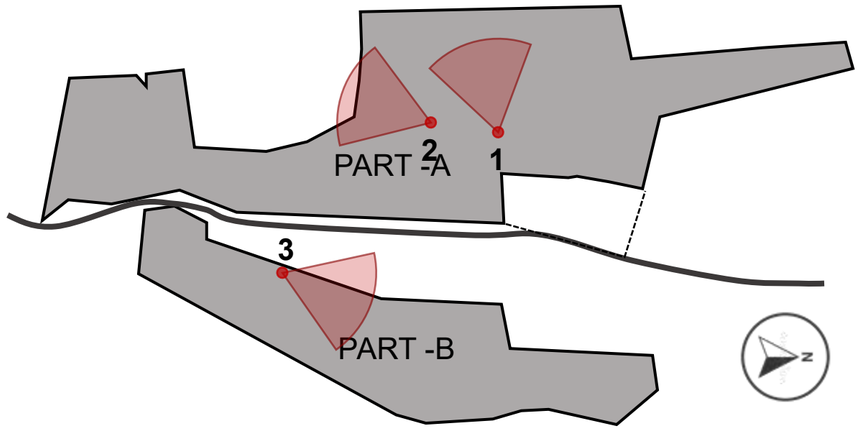
APPROACH


BANNERGHATTA BIODIVERSITY PARK
BASAVANADODDI
PART 01
77 ACRE
UNDER CONSTRUCTION
BLOCK
APPROACH ROAD
PART 02
33 ACRE
TOBO BLUE WATERS
HAROHALLI ROAD

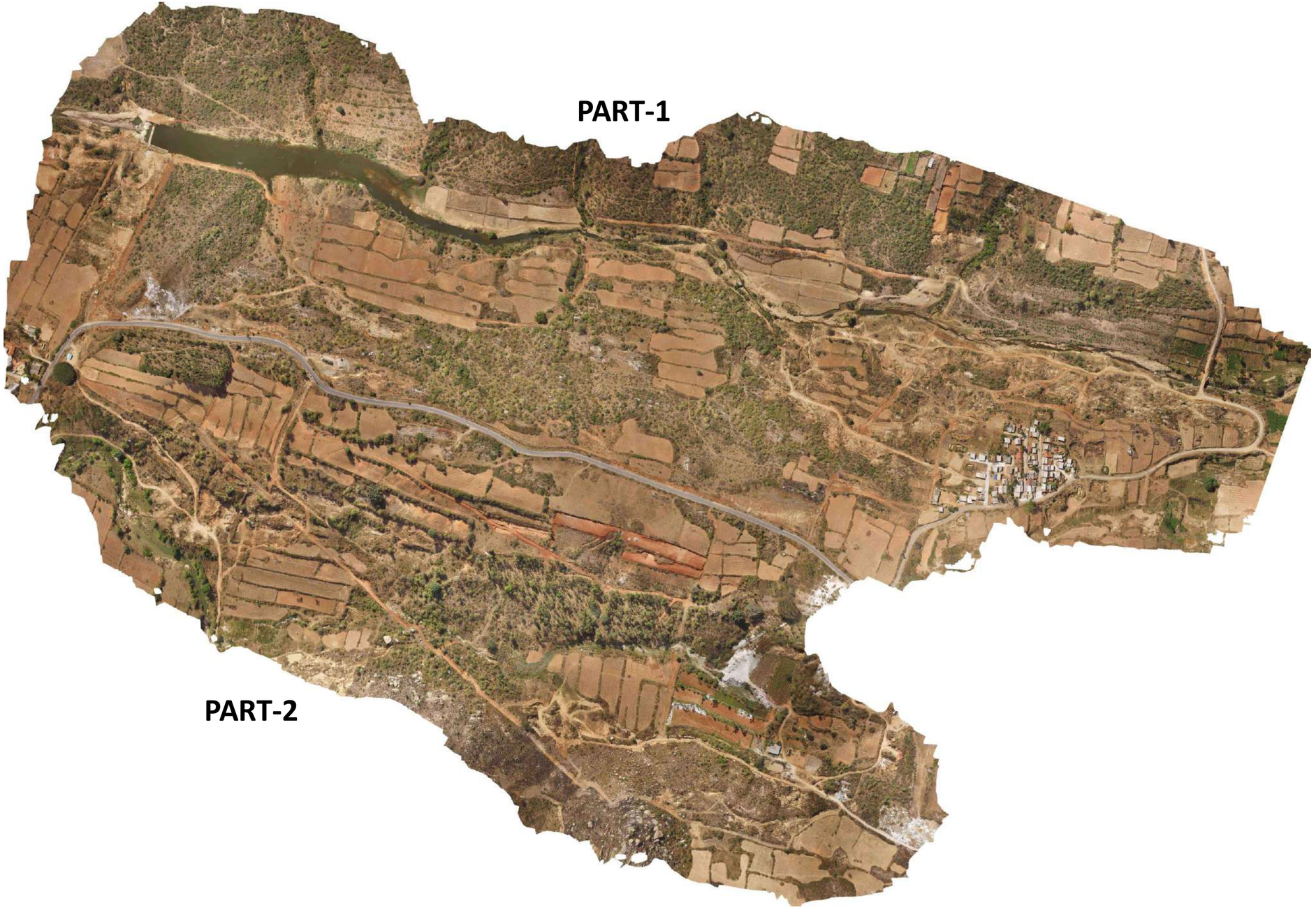
SITE SURROUNDING



SITE SURROUNDING



SURVEY PLAN
AERIAL



PHASE 01 VISUALIZATION

Building Heights

As per fire norms

Administration
Block (G+6) 27.6m

Hostel
Block(G+10) 38.1 m

Mess
Block (G+1) 9.6m

Sports
Block(G+1) 9.6m

Library, performing arts &Cafe
Block(G+5) 27.6 m

MASTERPLAN

SITE PART 1
73 ACRE
SITE PART 2
41 ACRE
TO MLCP SITE PART 1
FUTURE DEVELOPMENT
FUTURE DEVELOPMENT
EDUCATIONAL BLOCK
HOSTEL BLOCK
MESS KITCHEN
25 M BUFFER
STREAM
16 M SETBACK
LIBRARY & PERFORMING ARTS BLOCK
SPORTS COMPLEX
718.13
304.44
SECTION CC'
SECTION CC'

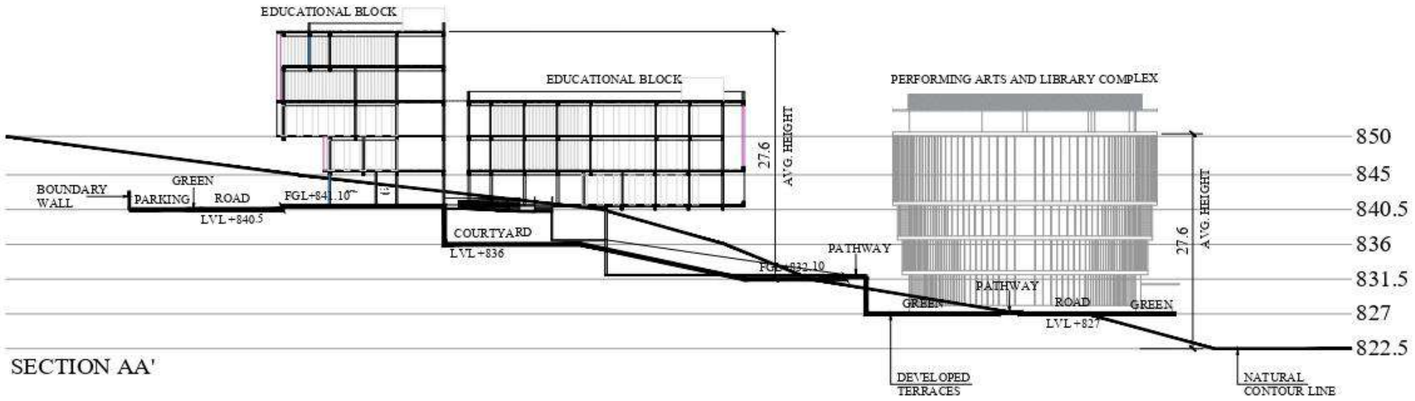
MASTERPLAN

PHASE 1A

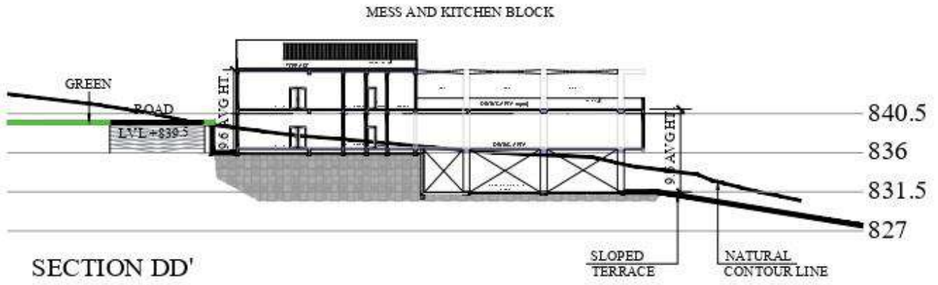
- EDUCATIONAL BLOCK
- LIBRARY AND PERFORMING ARTS
- HOSTEL BLOCK
- SPORTS COMPLEX
- MESS BLOCK

TOTAL BUILT UP AREA					
S.NO	BUILDINGS	FLOORS	AVERAGE HEIGHTS	TOTAL BUILT UP AREA	UNITS
1	OFFICE , ADMIN,EDUCATIONAL BLOCK	G+6	27.6	14933.16	SQM
2	HOSTEL	G+10	38.1	21090.64	SQM
3	MESS	G+1	9.6	2326.53	SQM
4	SPORTS COMPLEX	G+1	9.6	5948	SQM
5	LIBRARY & PERFROMING ART	G+5	27.6	8274.07	SQM
6	GATE	6	4	375	SQM
7	SERVICES			1000	SQM
	TOTAL			**53947.4**	SQM

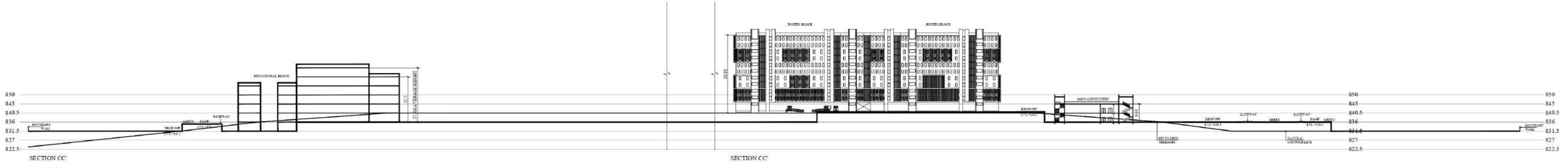
SITE SECTIONS



SECTION AA'



SECTION DD'



OFFICE AND ADMIN BLOCK

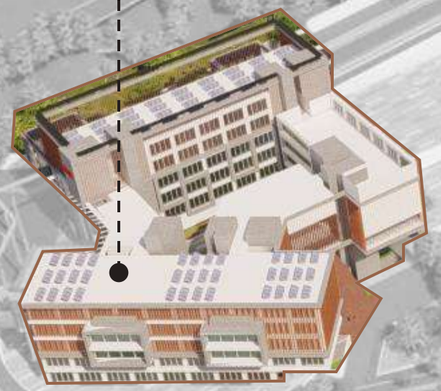
OFFICE & ADMIN

G+6

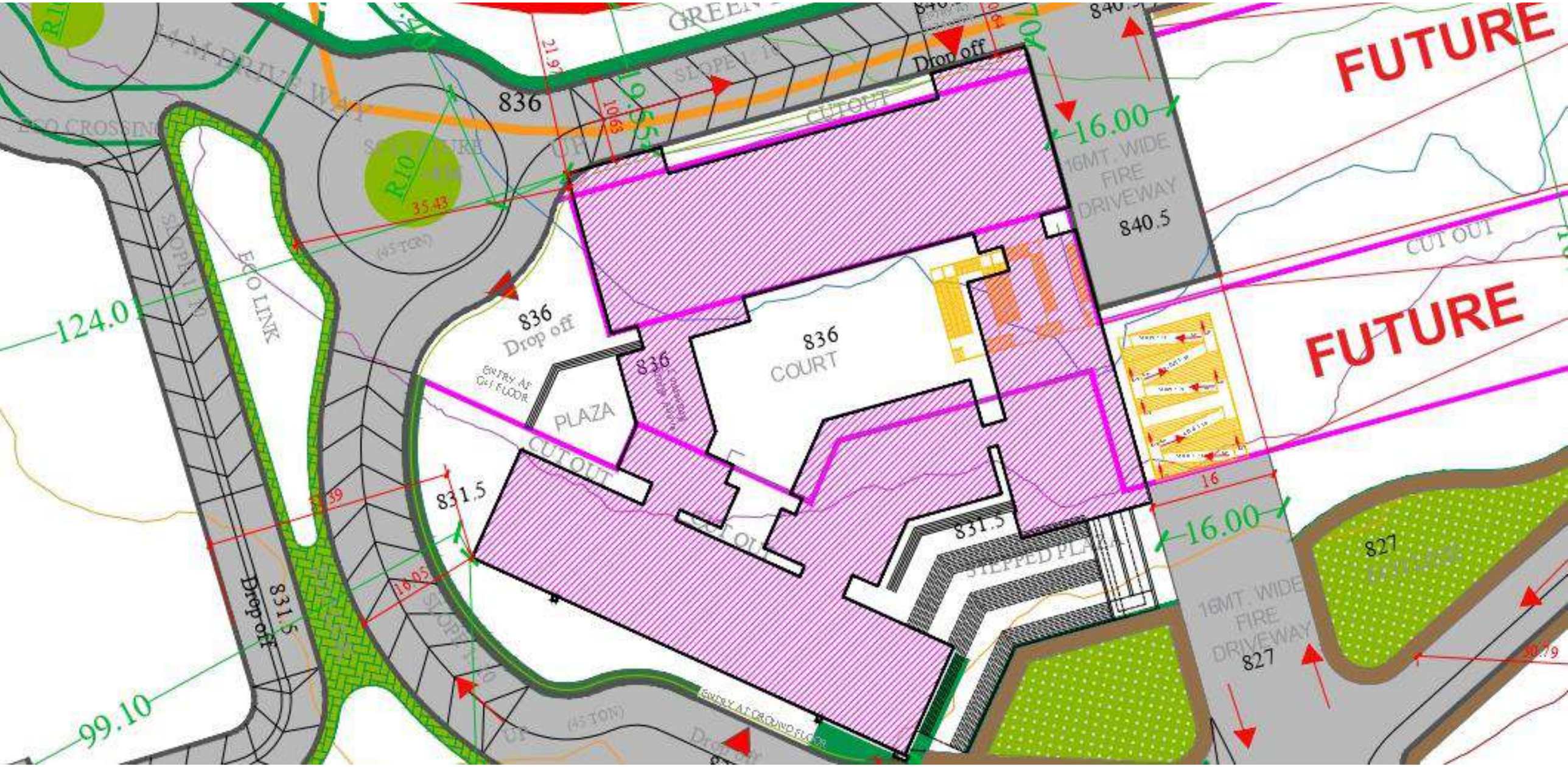
Storey building

14933.16 sqm

Built-up (approx.)



SITE PLAN


FUTURE
FUTURE
836
Drop off
16.00
16MT. WIDE FIRE DRIVEWAY
840.5
CUT OUT
836
COURT
836
PLAZA
CUT OUT
836
Drop off
ENTRY AT GF FLOOR
124.0
ECO LINK
831.5
831.5
Drop off
99.10
16.00
827
827
16MT. WIDE FIRE DRIVEWAY
ENTRY AT GROUND FLOOR

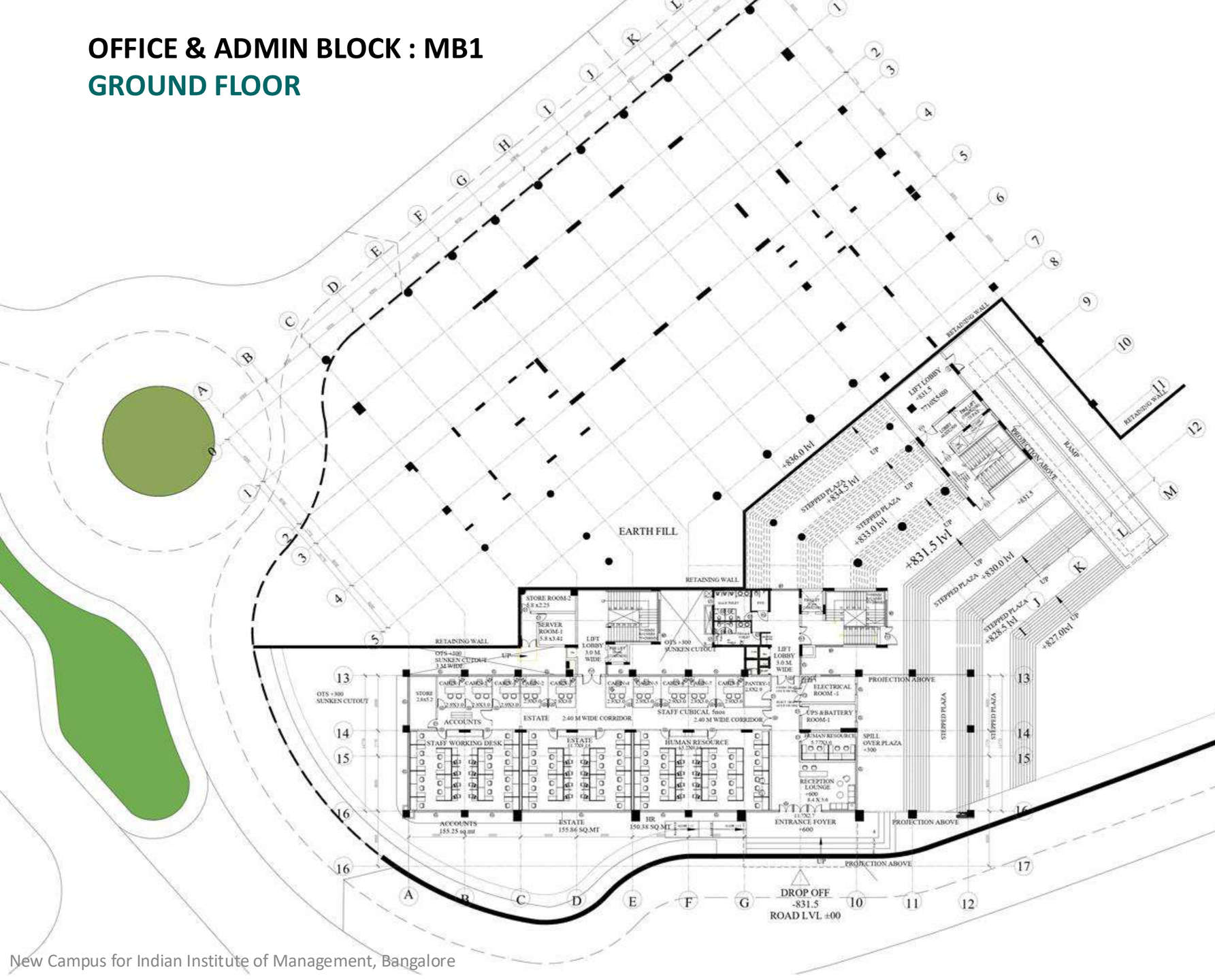
OFFICE & ADMIN BLOCK : MB1

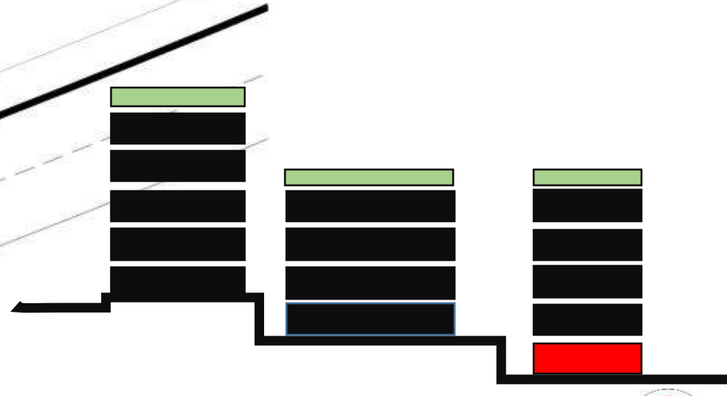
AREA SUMMARY AS PER DESIGN

Educational Block		
S.NO	FLOOR	AS PER DESIGN TOTAL BUILT-UP AREA SQ.MT.
1	GROUND FLOOR	1106.5
2	FIRST FLOOR	1780.23
3	SECOND FLOOR	2890.72
4	THIRD FLOOR	2941.24
5	FOURTH FLOOR	3394.82
6	FIFTH FLOOR	1490.29
7	SIXTH FLOOR	1168.92
8	TERRACE/ MUMTY FLOOR	160.44
	TOTAL	14933.16

OFFICE & ADMIN BLOCK : MB1

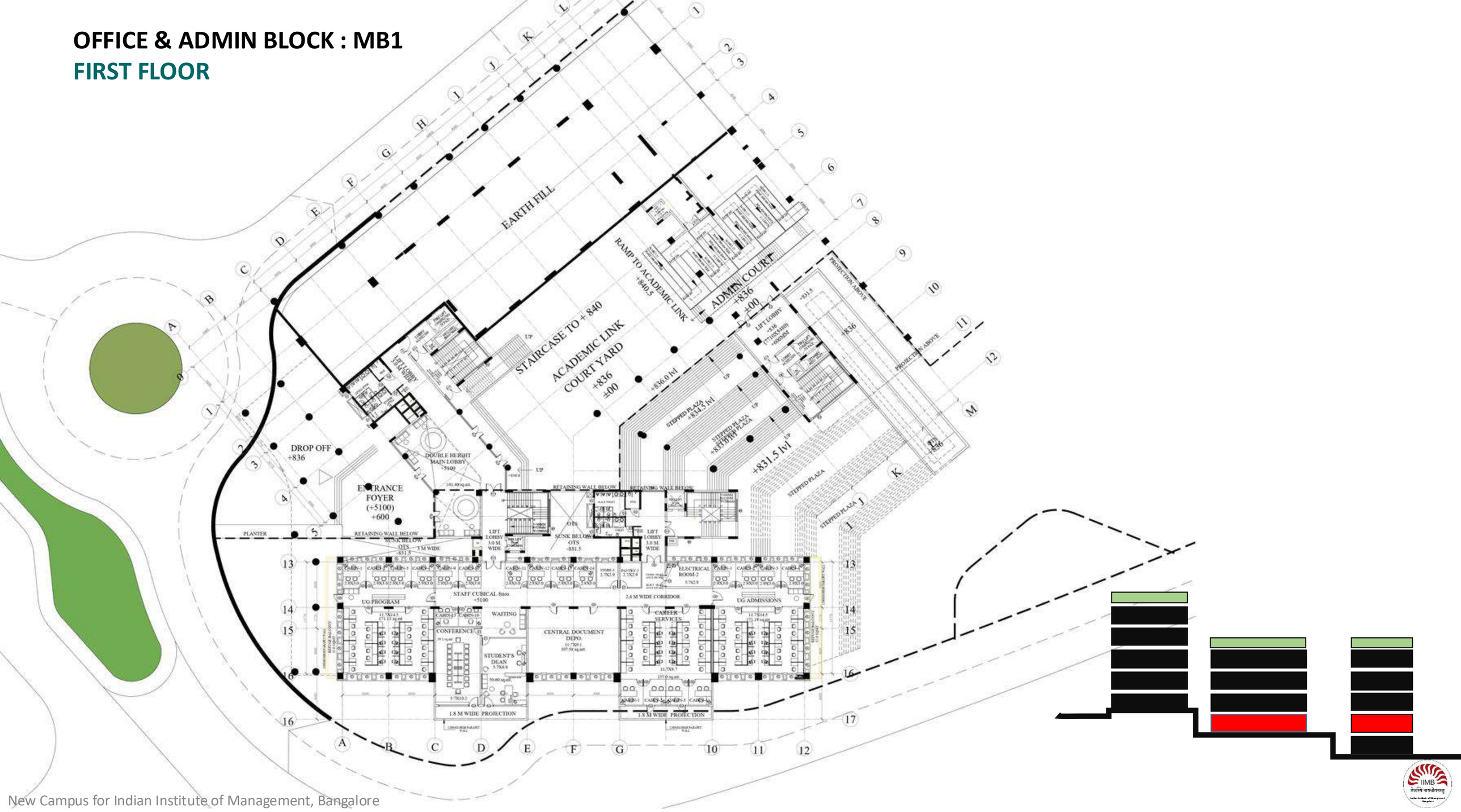
GROUND FLOOR





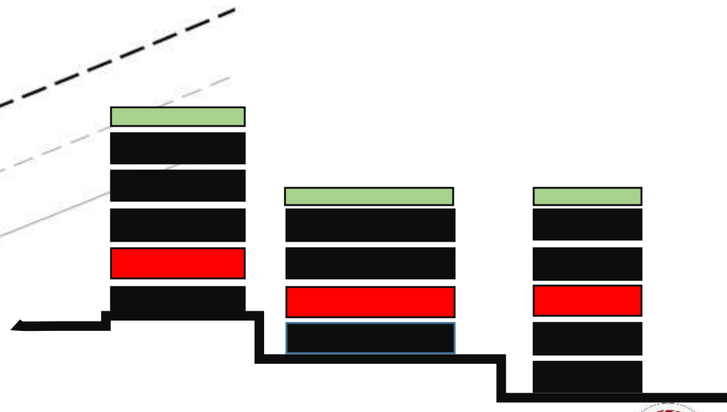
OFFICE & ADMIN BLOCK : MB1

FIRST FLOOR



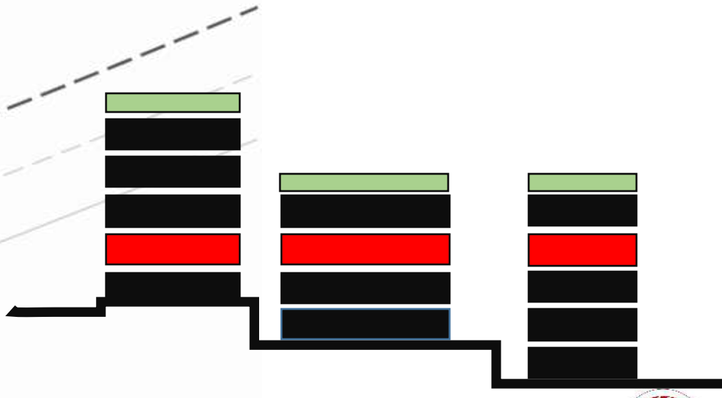
OFFICE & ADMIN BLOCK : MB1

SECOND FLOOR



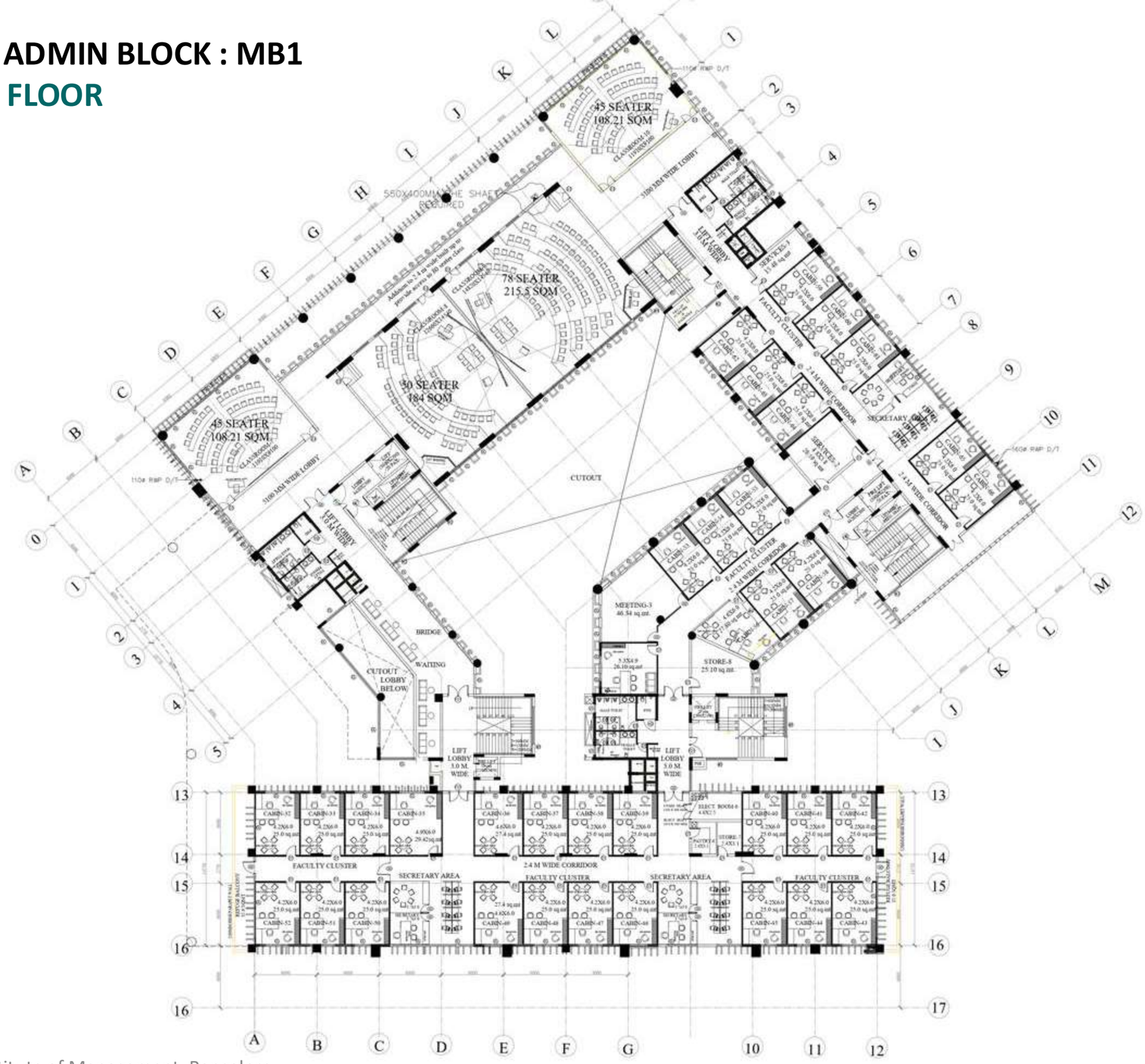
OFFICE & ADMIN BLOCK : MB1

THIRD FLOOR



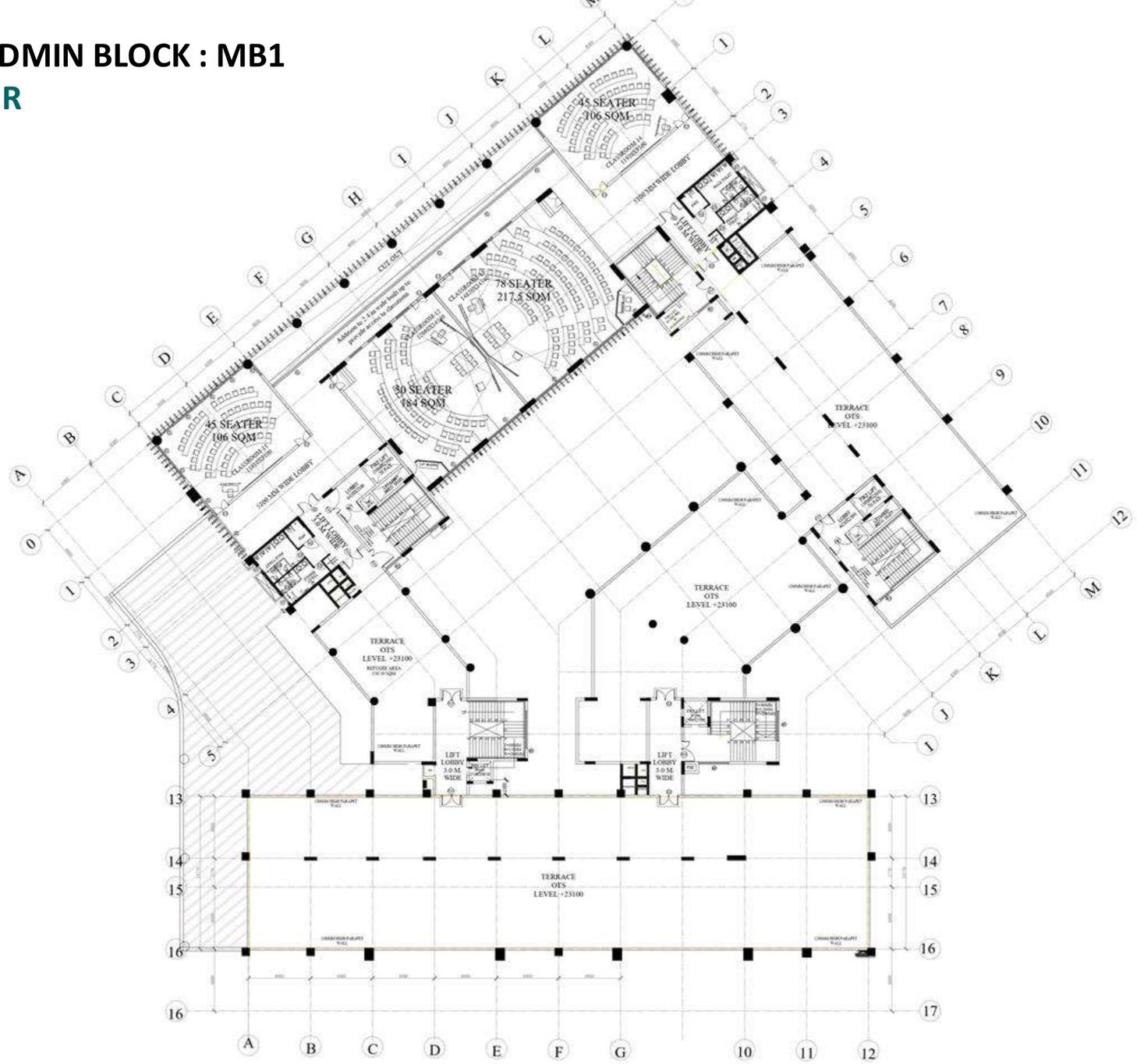
OFFICE & ADMIN BLOCK : MB1

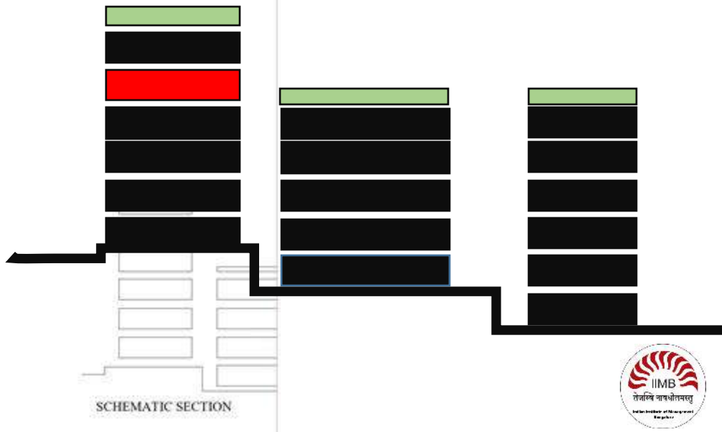
FOURTH FLOOR



OFFICE & ADMIN BLOCK : MB1

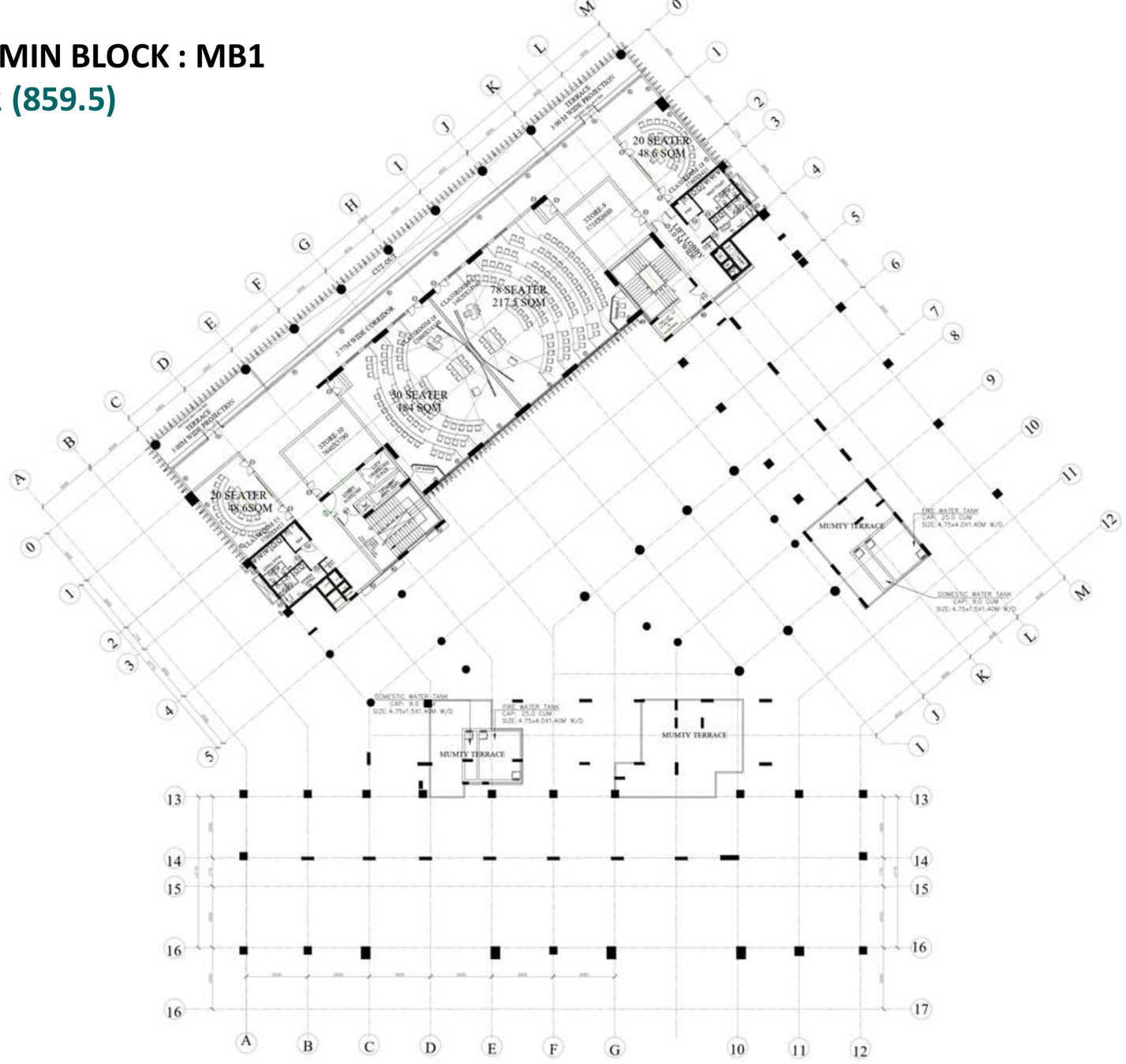
FIFTH FLOOR

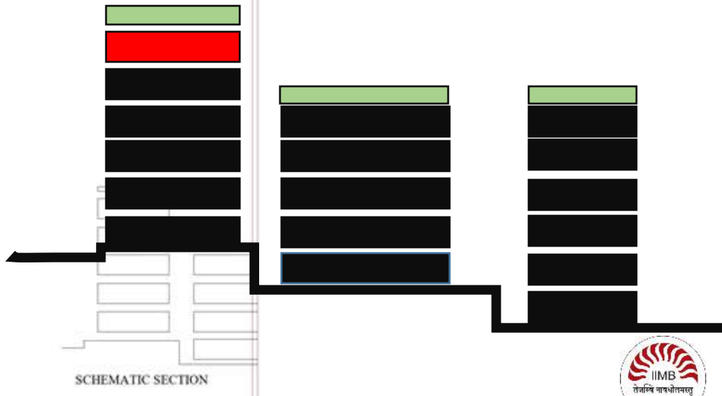




OFFICE & ADMIN BLOCK : MB1

SIXTH FLOOR (859.5)

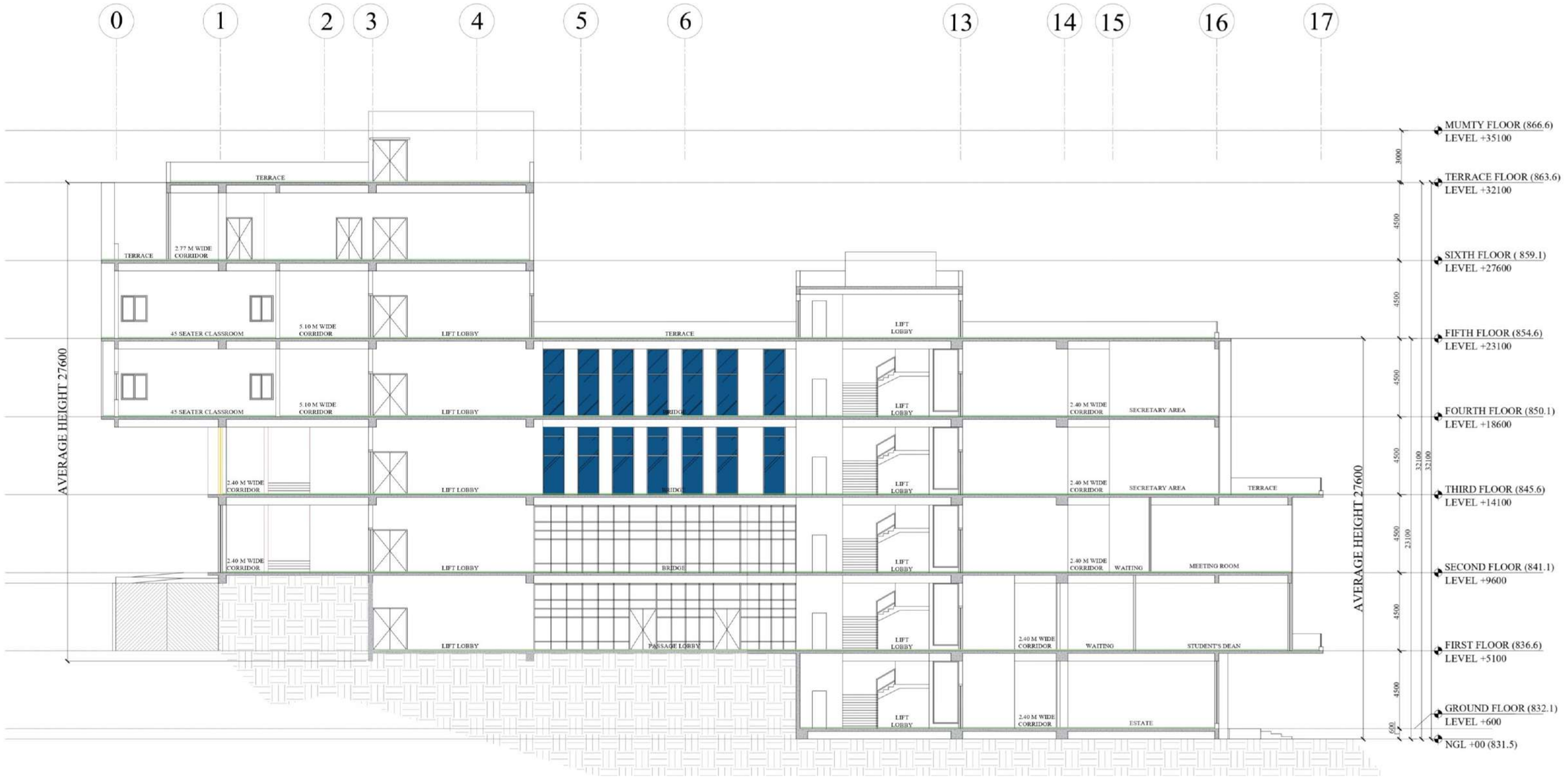




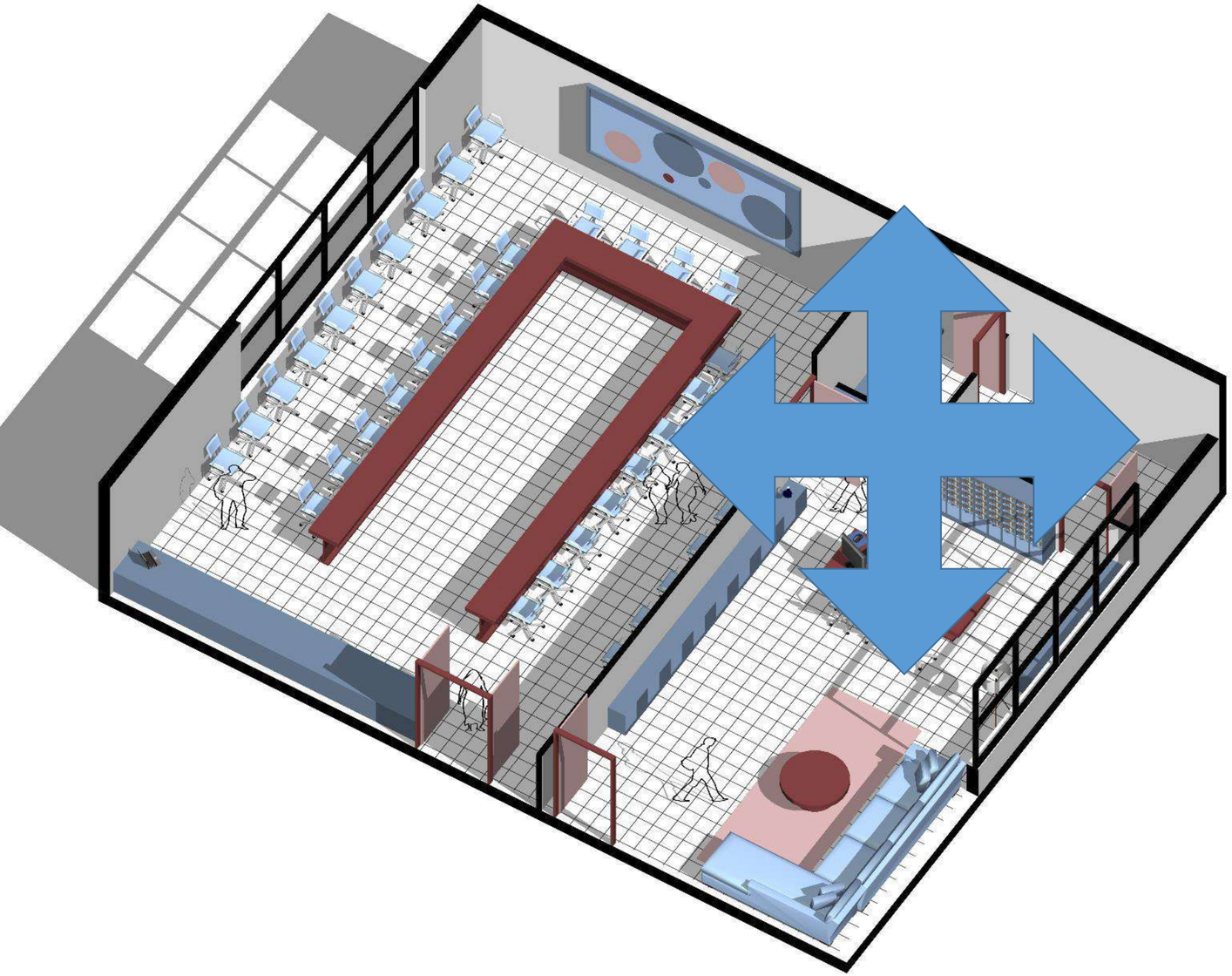
SCHEMATIC SECTION

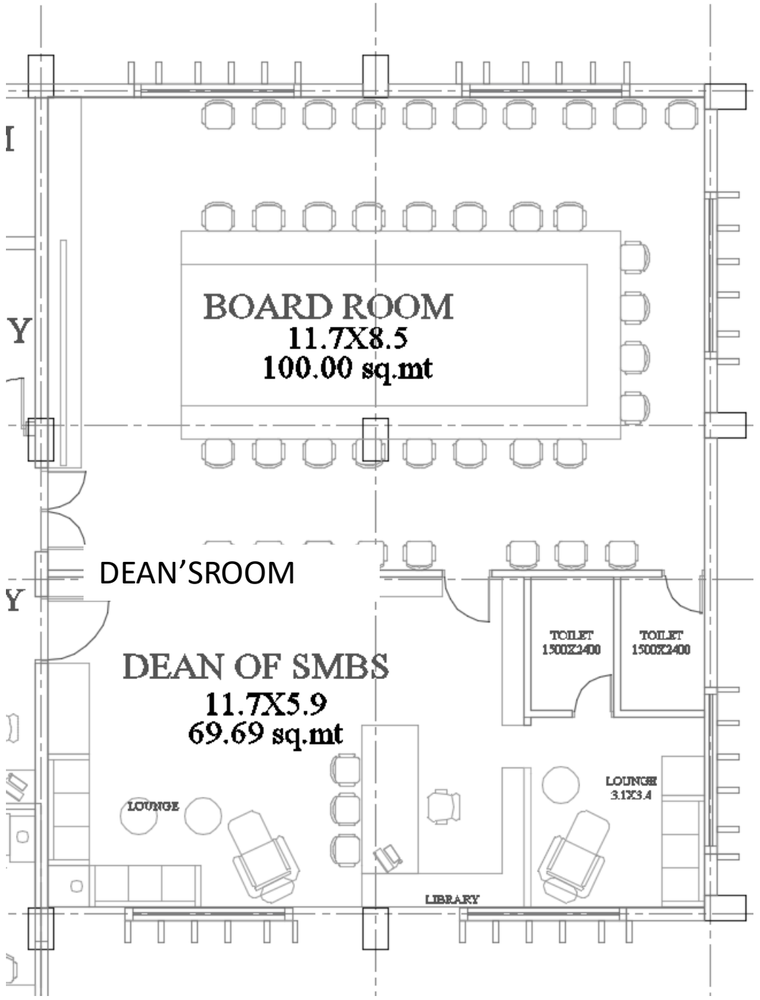
OFFICE & ADMIN BLOCK : MB1

SECTION

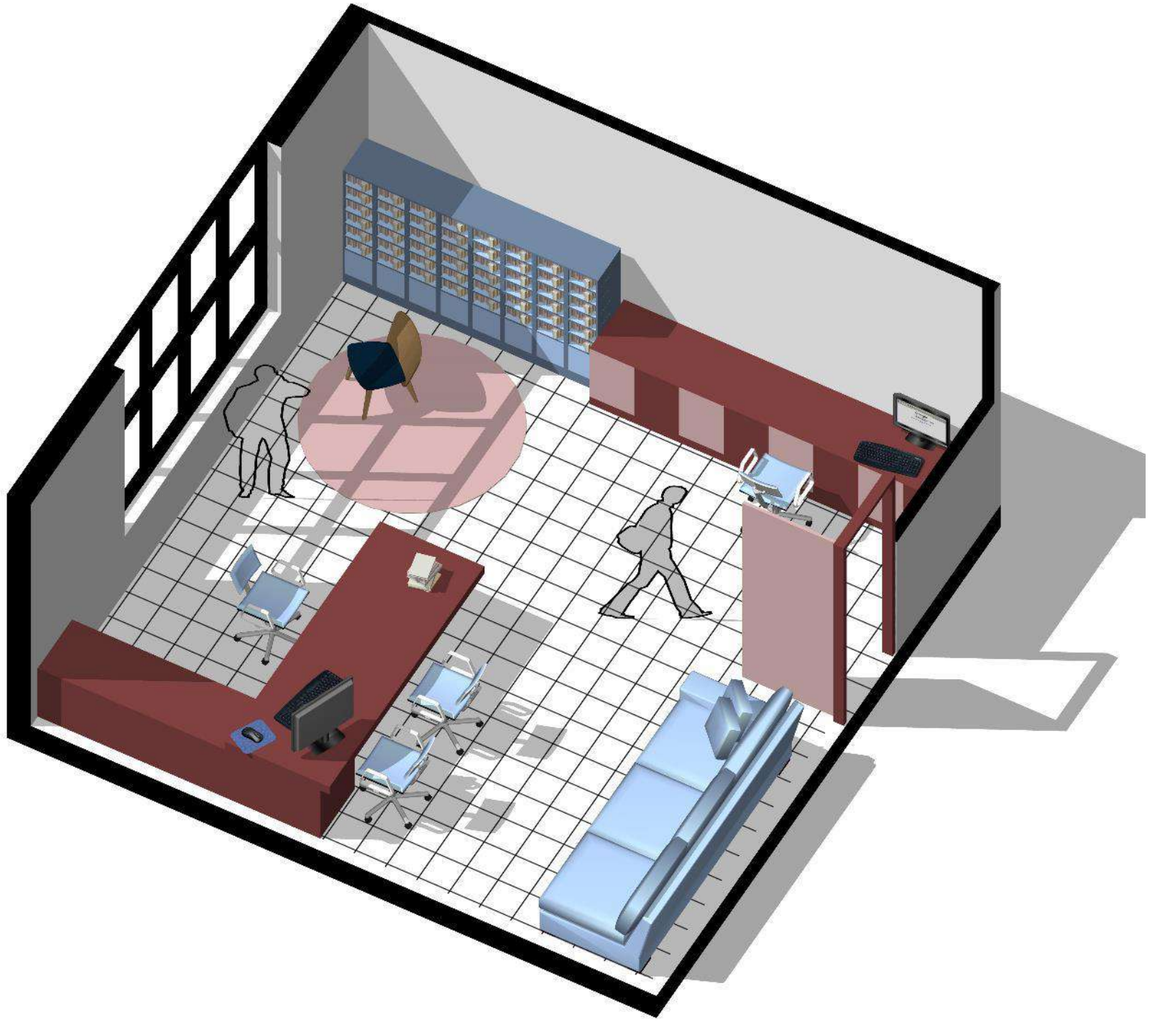


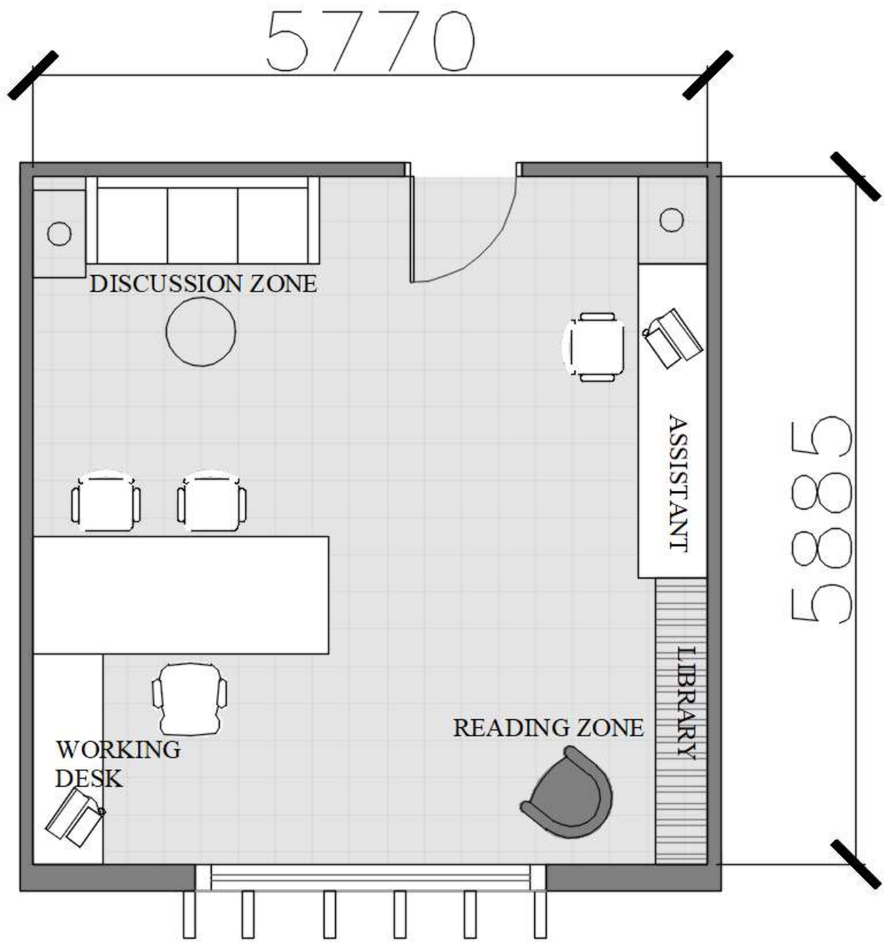
DEAN’S ROOM



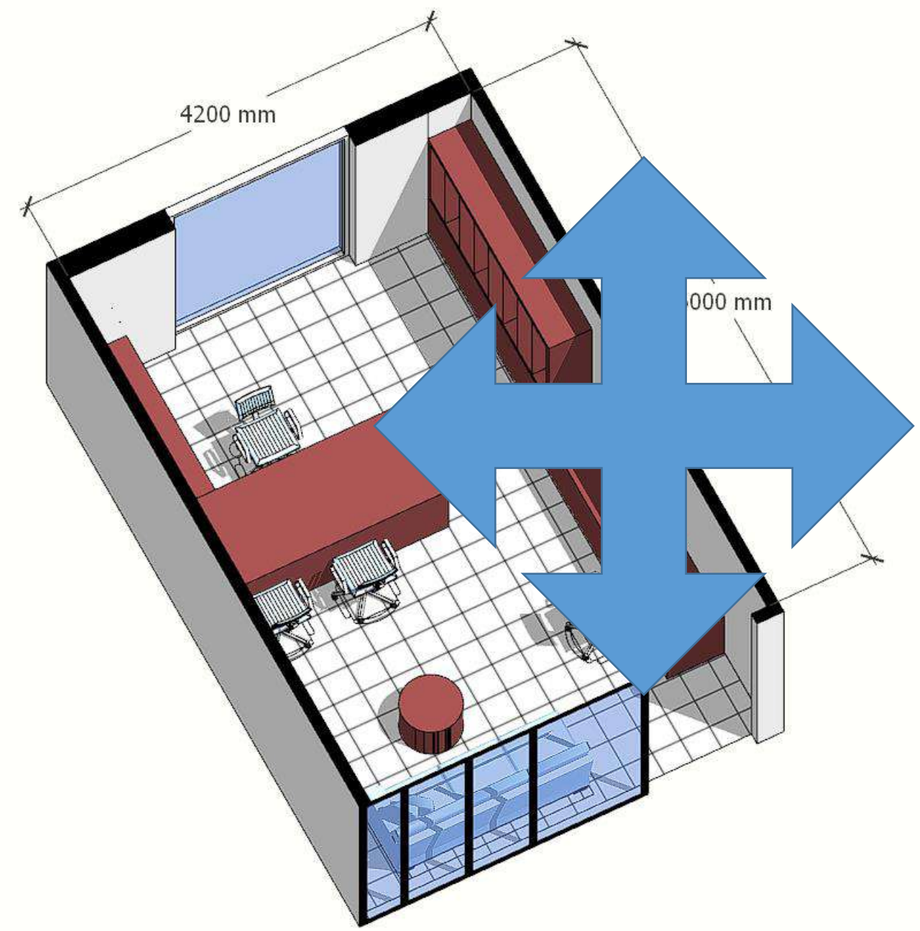

BOARD ROOM
11.7X8.5
100.00 sq.mt
DEAN’SROOM
DEAN OF SMBS
11.7X5.9
69.69 sq.mt
TOILET
1500X2400
TOILET
1500X2400
LOUNGE
LOUNGE
3.1X3.4
LIBRARY

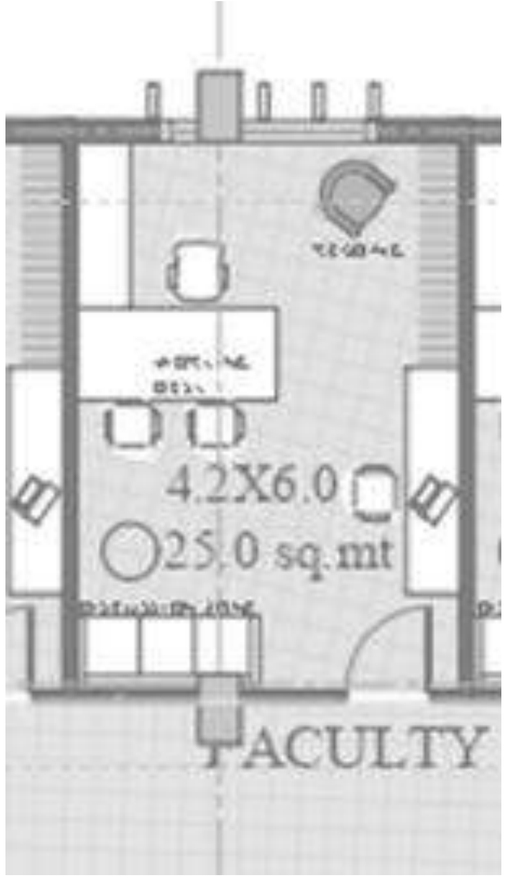
ASSOCIATE DEAN



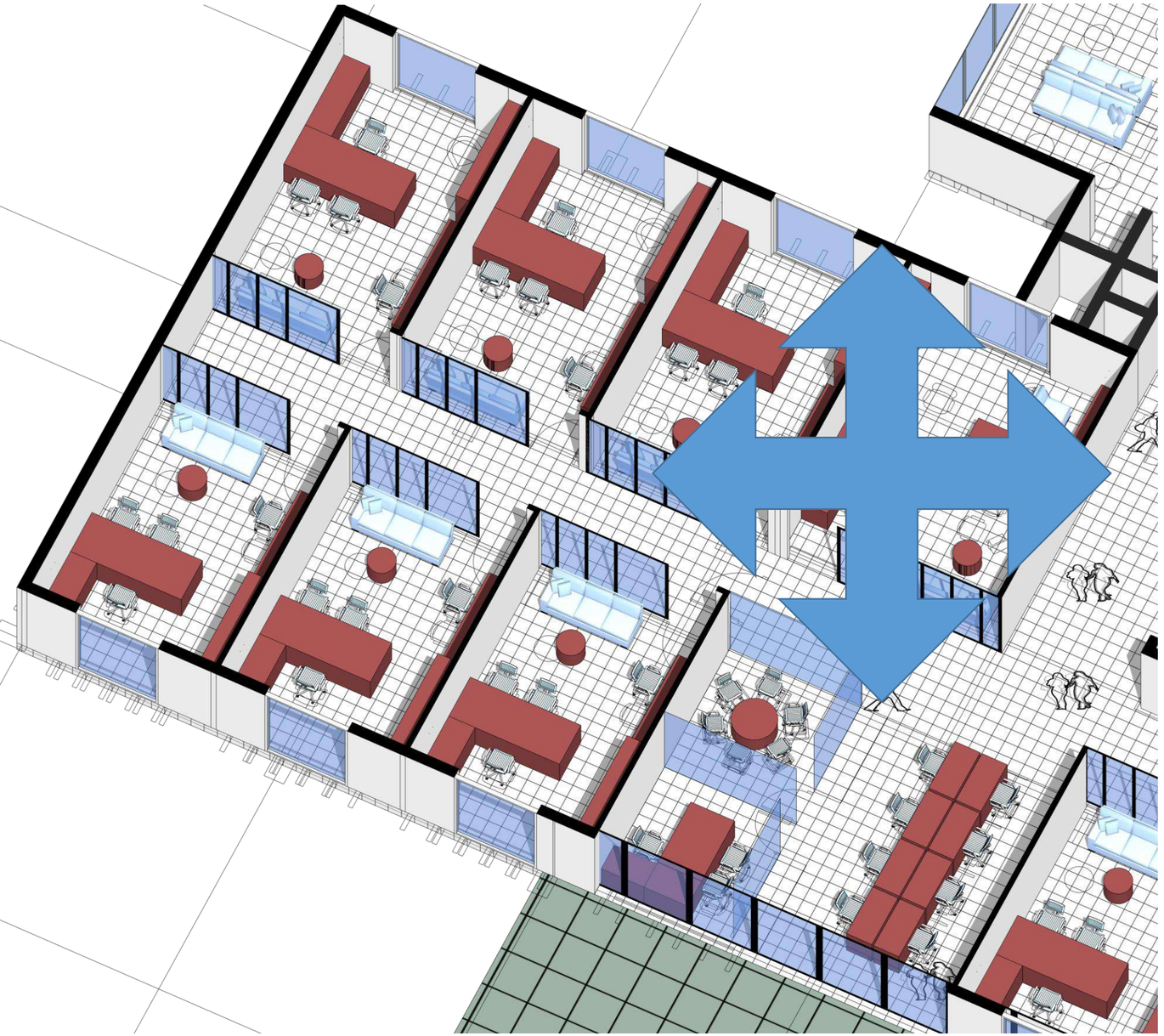


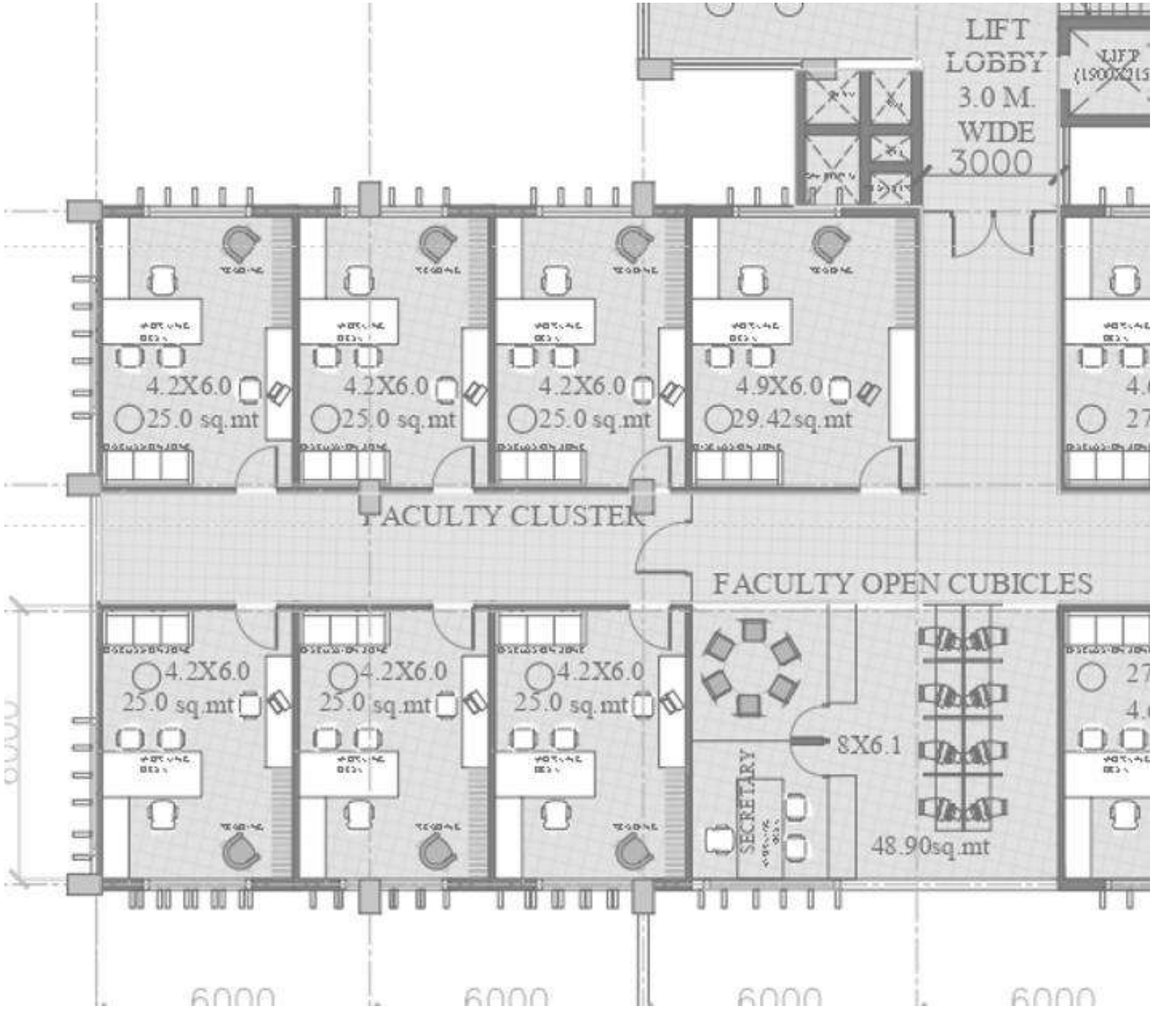
FACULTY ROOM



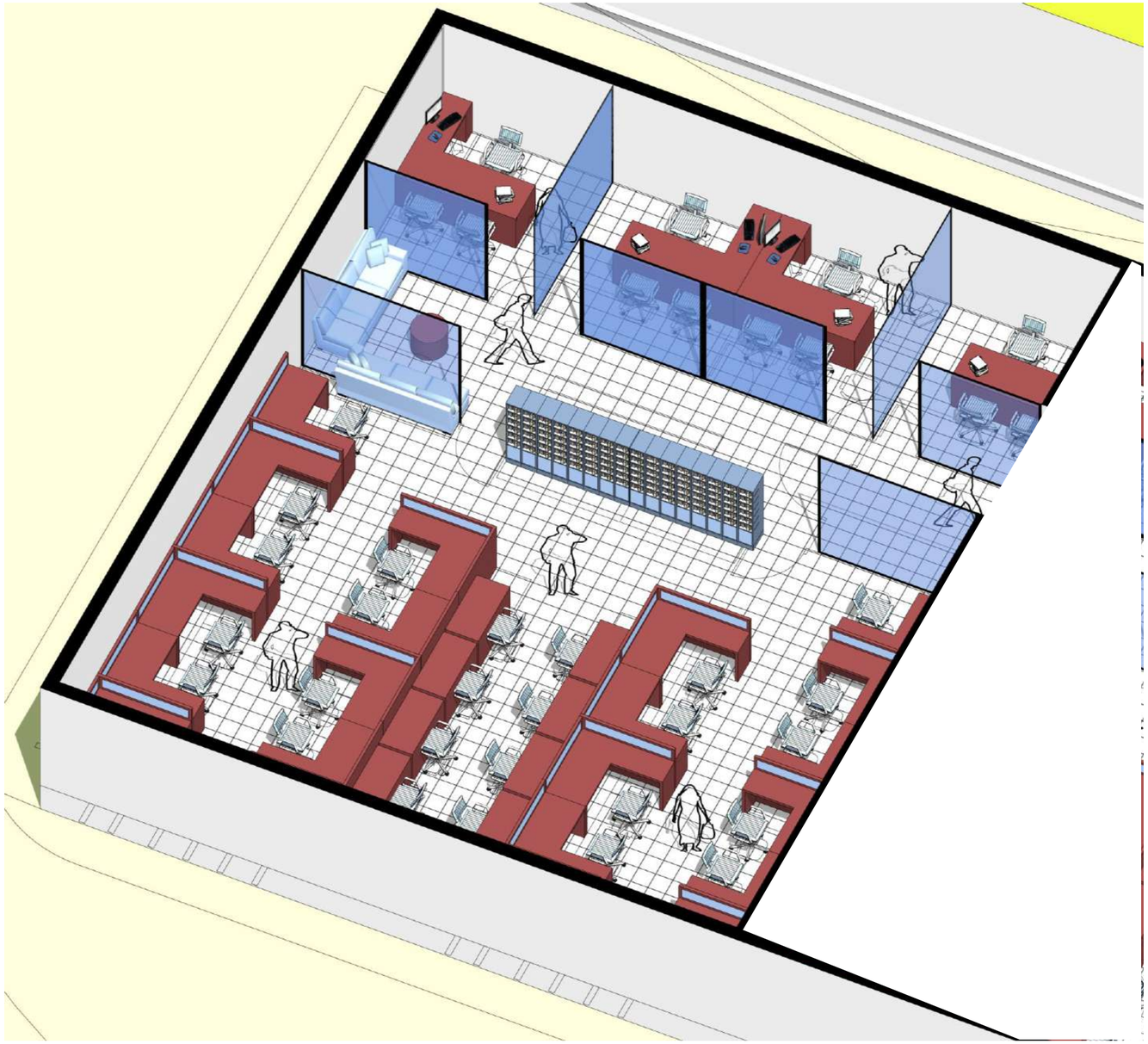


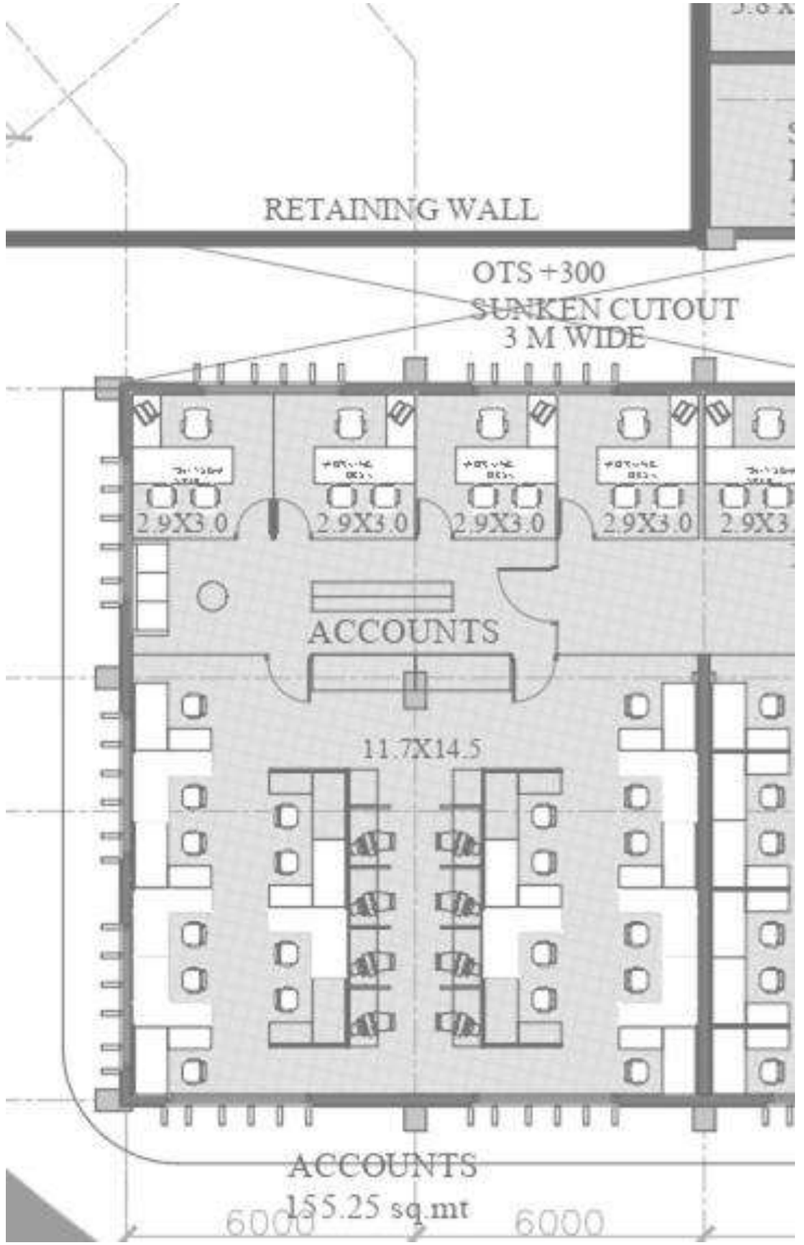
FACULTY CLUSTER





ACCOUNTS SECTION





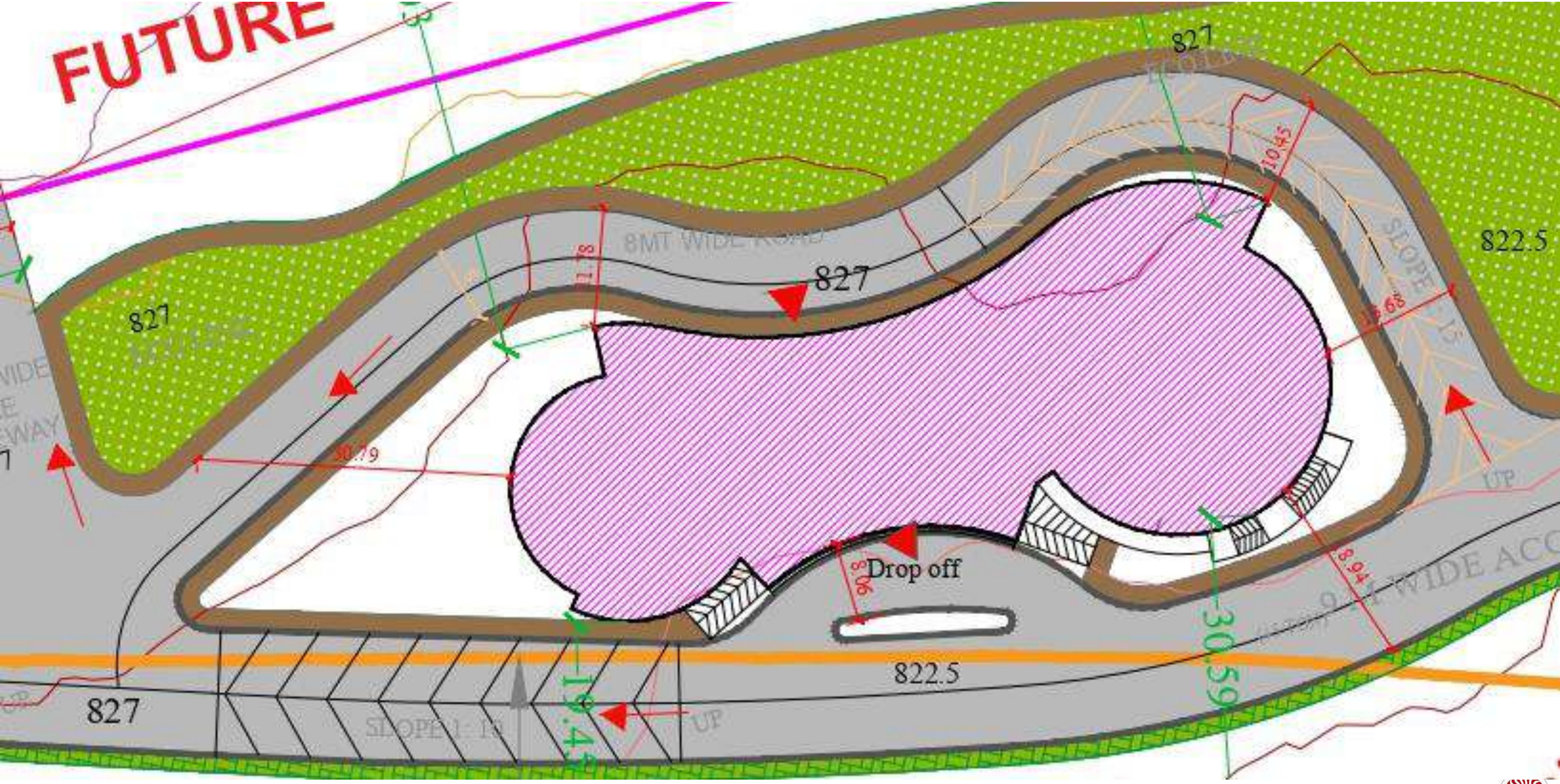
MB2, LIBRARY & RESOURCE CENTRE

PERFORMING ARTS & LIBRARY

G+5
Storey building

8274 sqm
Built-up (approx.)

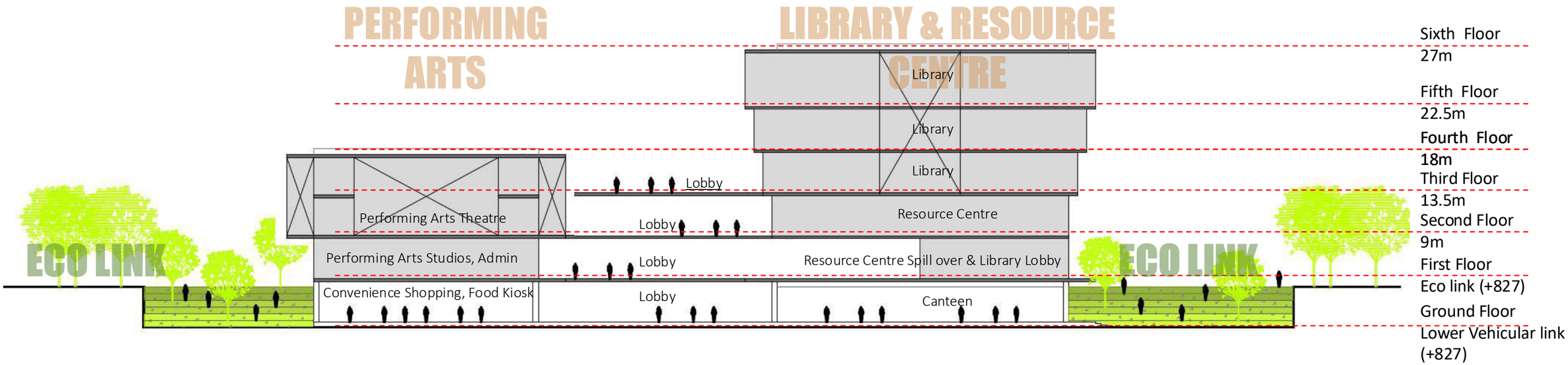
SITE PLAN



FUTURE
827
827
8MT WIDE ROAD
827
822.5
SLOPE 1:15
UP
Drop off
822.5
827
SLOPE 1: 15
UP

MB2, LIBRARY & RESOURCE CENTRE

STACK SECTION



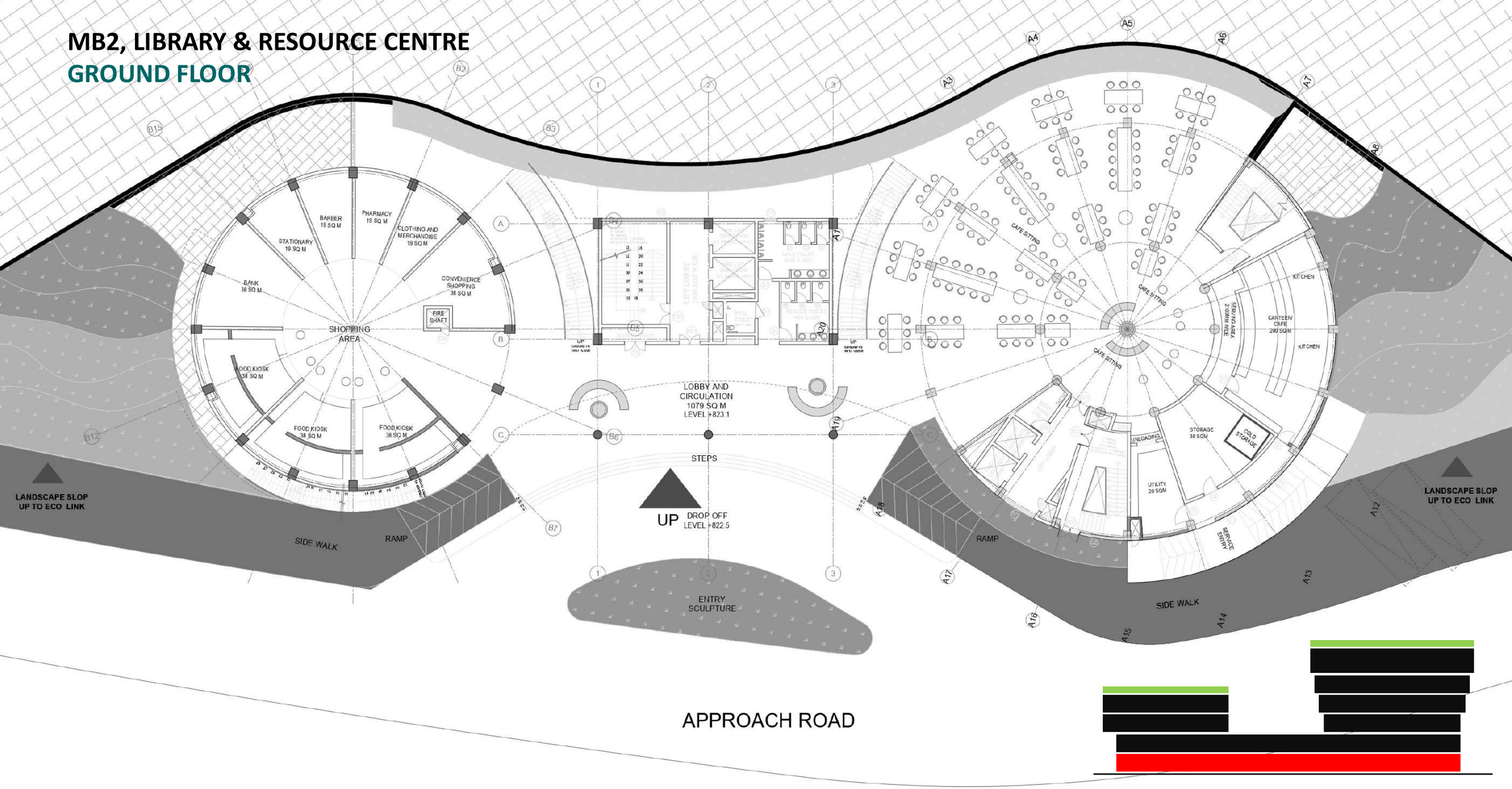
MB2, LIBRARY & RESOURCE CENTRE

PROGRAM REQUIREMENT

LIBRARY AND PERFORMING ARTS COMPLEX		
S.NO	FLOOR	AS PER DESIGN TOTAL BUILT-UP AREA SQ.MT.
1	GROUND FLOOR	2025.00
2	FIRST FLOOR	1785.00
3	SECOND FLOOR	1706.00
4	THIRD FLOOR	971.00
5	FOURTH FLOOR	848.00
6	FIFTH FLOOR	848.00
7	TERRACE/ MUMTY FLOOR	91.07
	TOTAL	8274.07

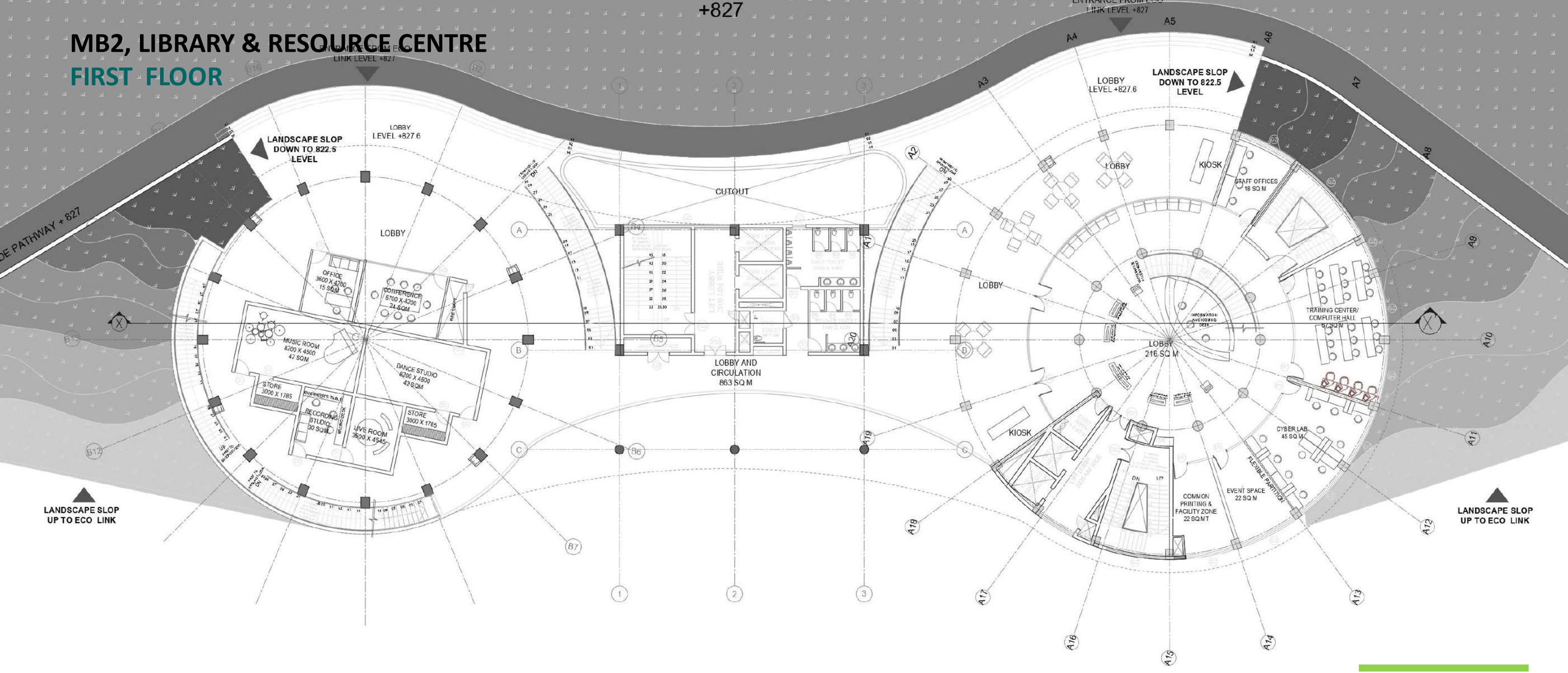
MB2, LIBRARY & RESOURCE CENTRE

GROUND FLOOR



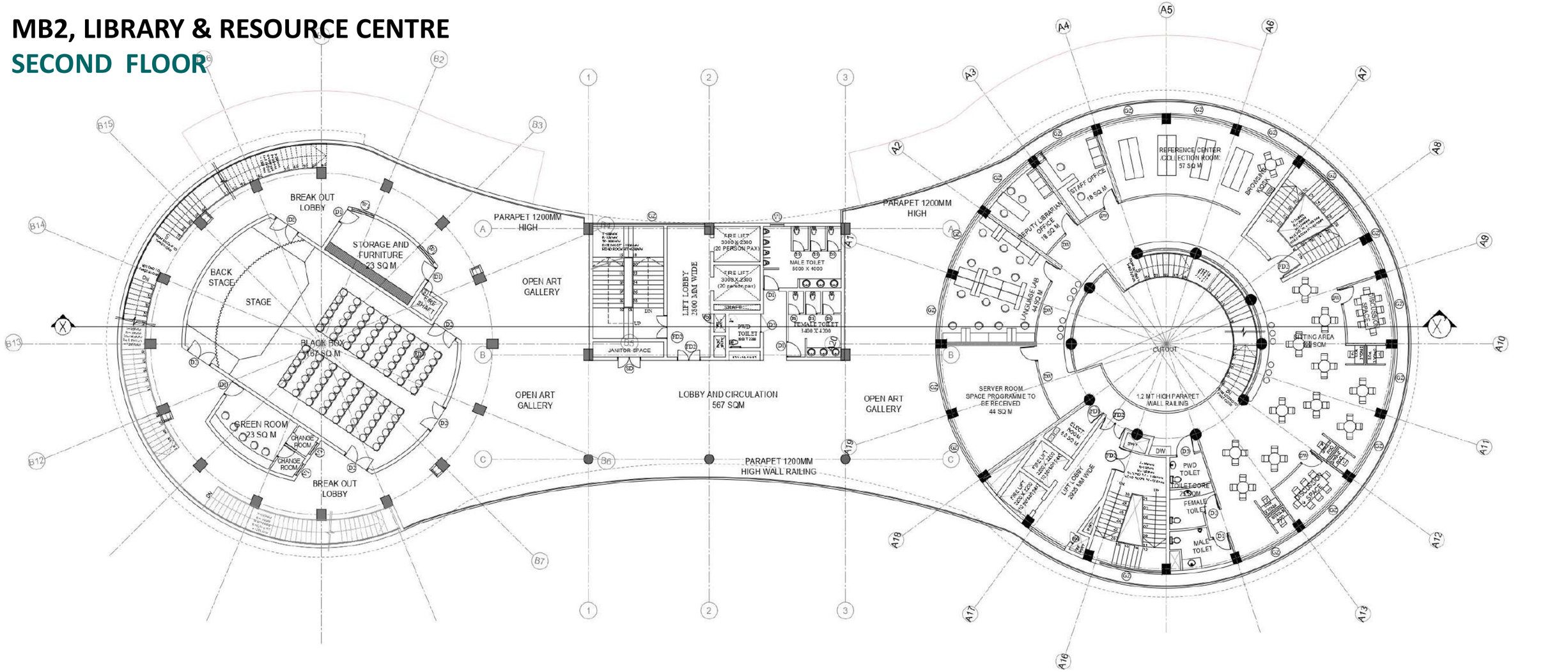
MB2, LIBRARY & RESOURCE CENTRE

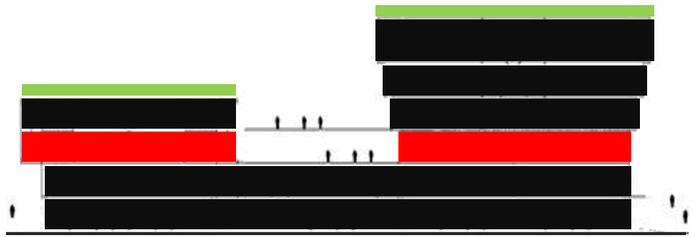
FIRST FLOOR



MB2, LIBRARY & RESOURCE CENTRE

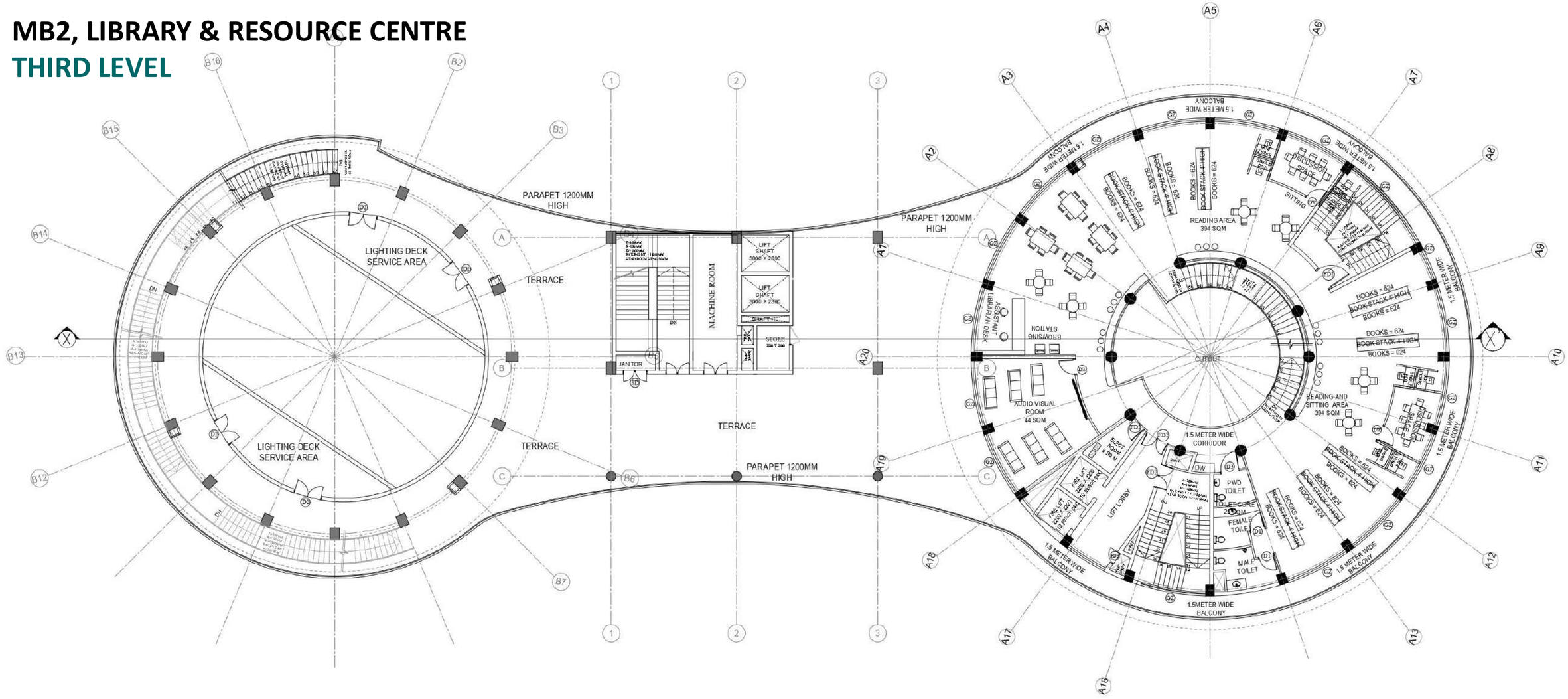
SECOND FLOOR

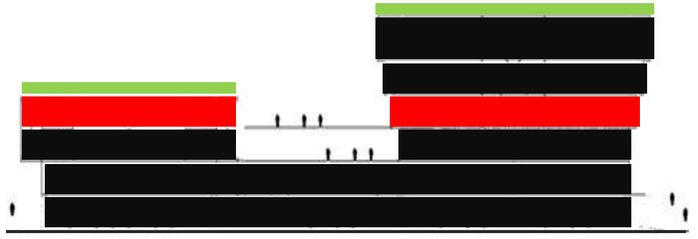




MB2, LIBRARY & RESOURCE CENTRE

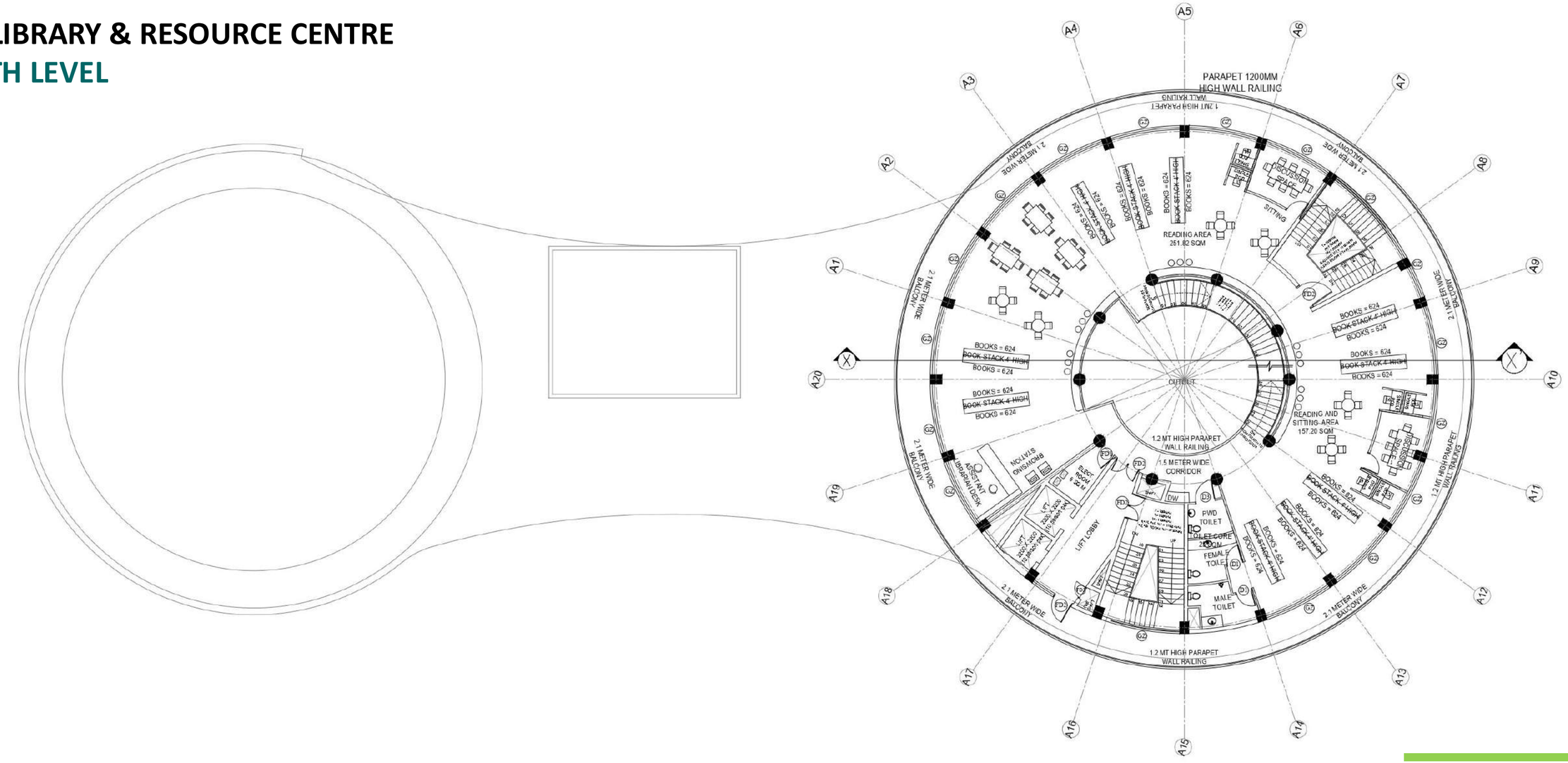
THIRD LEVEL

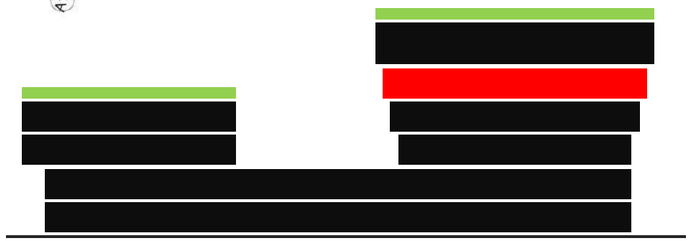




MB2, LIBRARY & RESOURCE CENTRE

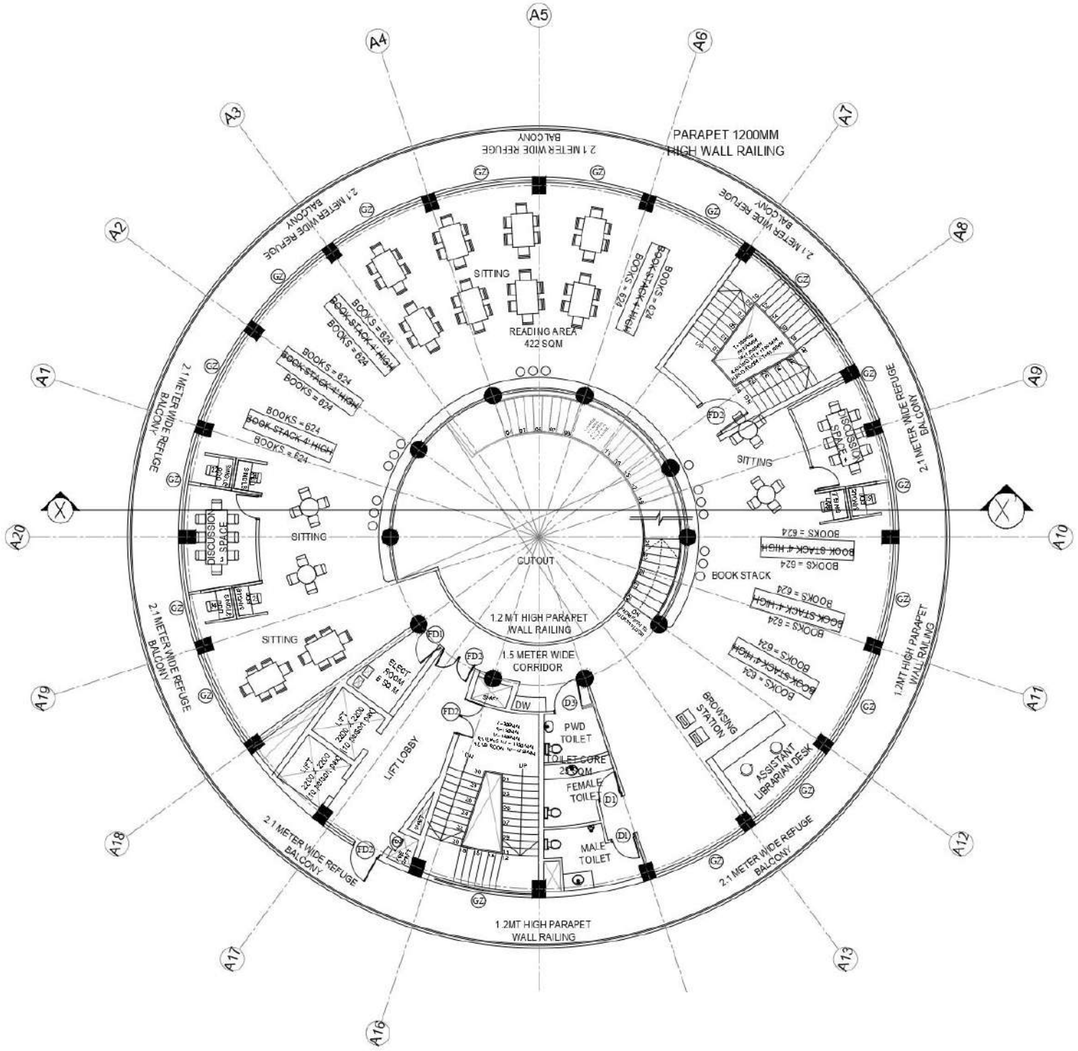
FOURTH LEVEL

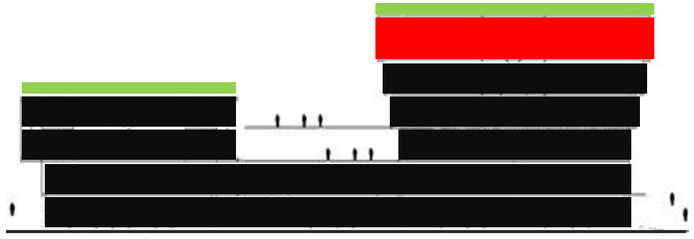




MB2, LIBRARY & RESOURCE CENTRE

FIFTH LEVEL





MB2, LIBRARY & RESOURCE CENTRE

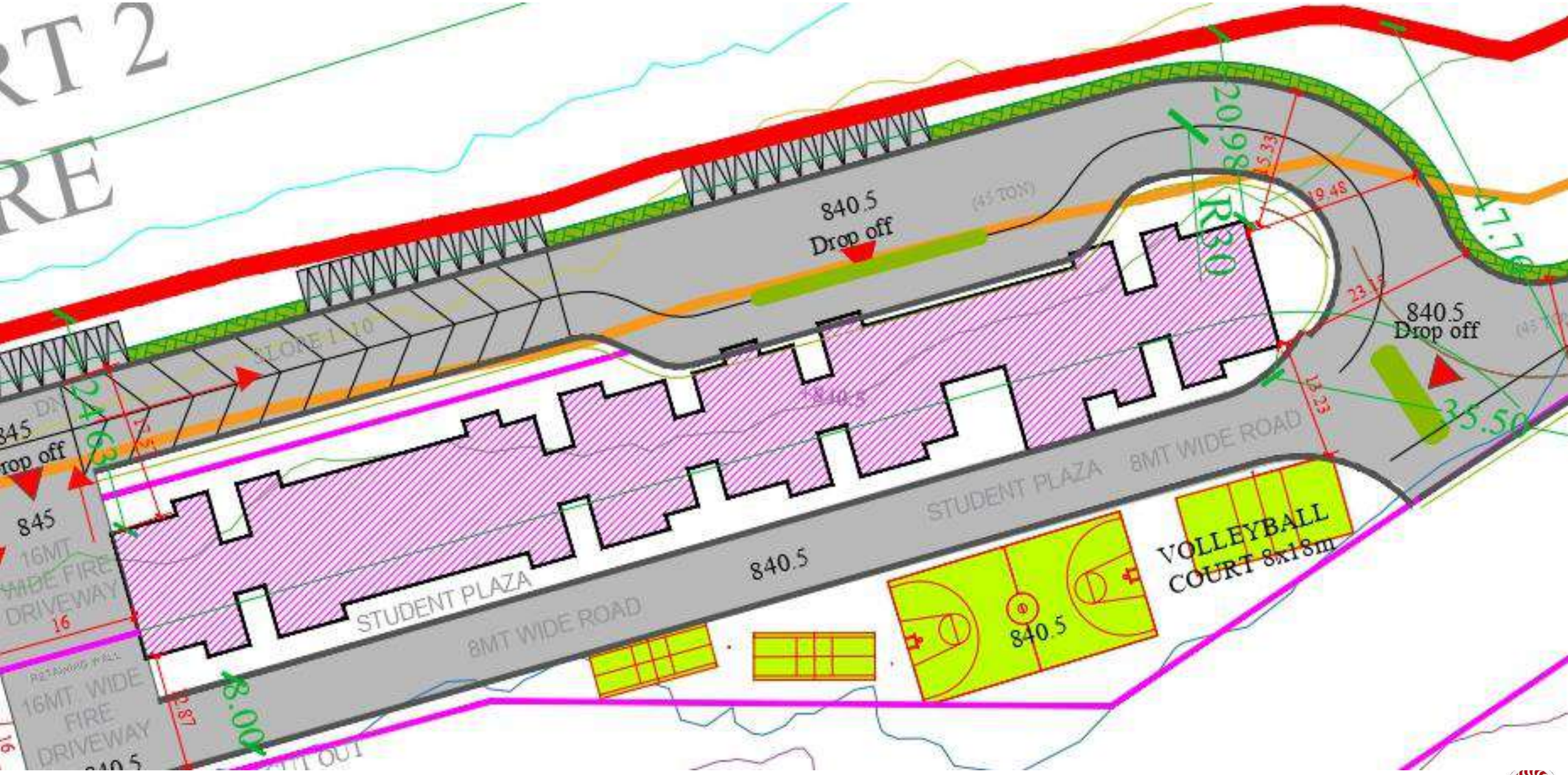
SECTION

SECTION AT XX'


HOSTEL COMPLEX


G+10
Storey building
21090.64 sqm
Built-up (approx.)
HOSTEL COMPLEX

SITE PLAN


840.5
Drop off
840.5
Drop off
STUDENT PLAZA
8MT WIDE ROAD
840.5
STUDENT PLAZA
8MT WIDE ROAD
840.5
VOLLEYBALL
COURT 8x18m
R30
20.98
19.48
23.13
12.23
35.50
8.00
16MT. WIDE
FIRE
DRIVEWAY

HOSTEL COMPLEX

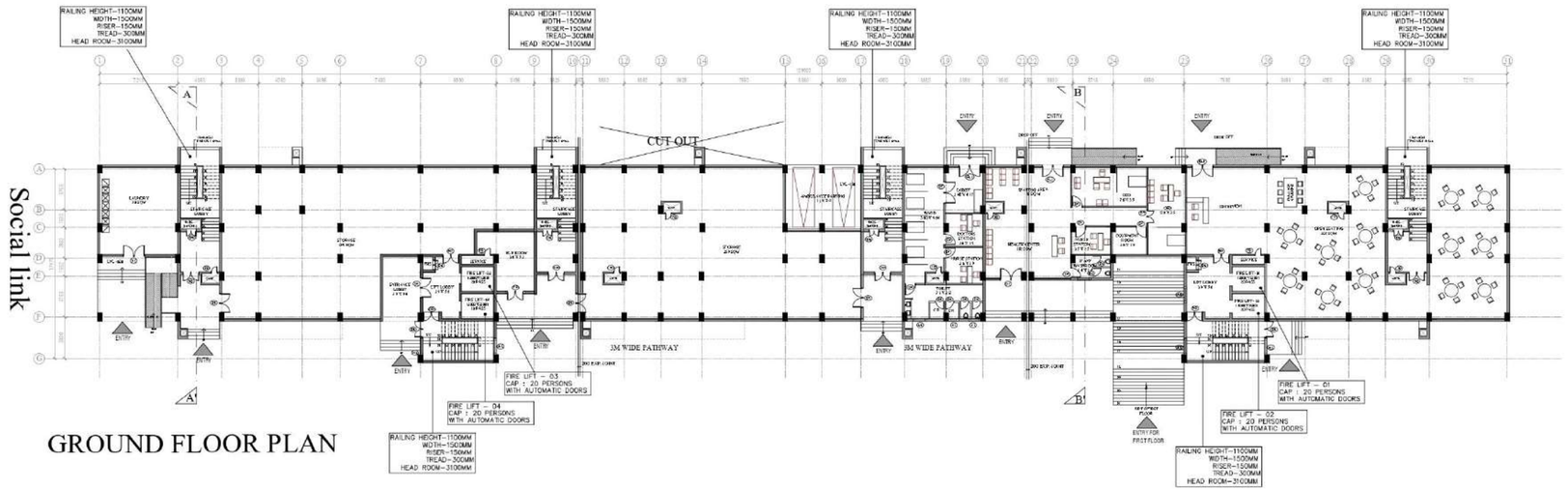
AREA SUMMARY AS PER DESIGN

HOSTEL BLOCK		
S.NO	FLOOR	AS PER DESIGN TOTAL BUILT-UP AREA SQ.MT.
1	GROUND FLOOR	1932.50
2	FIRST FLOOR	1874.21
3	SECOND FLOOR	1874.21
4	THIRD FLOOR	1874.21
5	FOURTH FLOOR	1874.21
6	FIFTH FLOOR	1874.21
7	SIXTH FLOOR	1874.21
8	SEVENTH FLOOR	2018.00
9	EIGTH FLOOR	1874.21
10	NINTH FLOOR	1874.21
11	TENTH FLOOR	1874.21
12	TERRACE/ MUMTY FLOOR	272.25
	TOTAL	21090.64

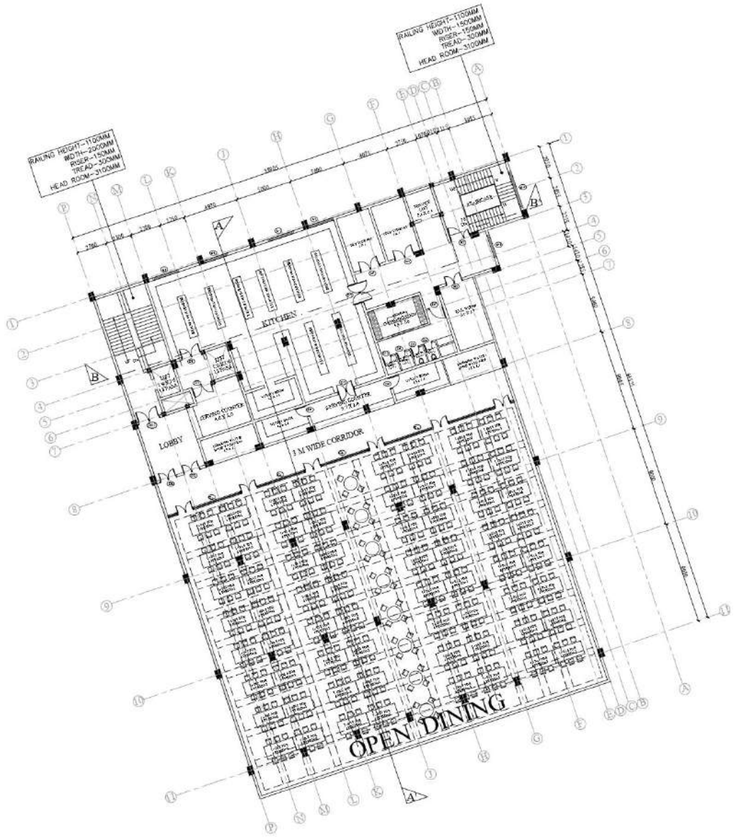
MESS BLOCK		
S.NO	FLOOR	AS PER DESIGN TOTAL BUILT-UP AREA SQ.MT.
1	GROUND FLOOR	1592.16
2	FIRST FLOOR	618.14
3	TERRACE/ MUMTY FLOOR	116.23
	TOTAL	2326.53

HOSTEL COMPLEX

GROUND FLOOR



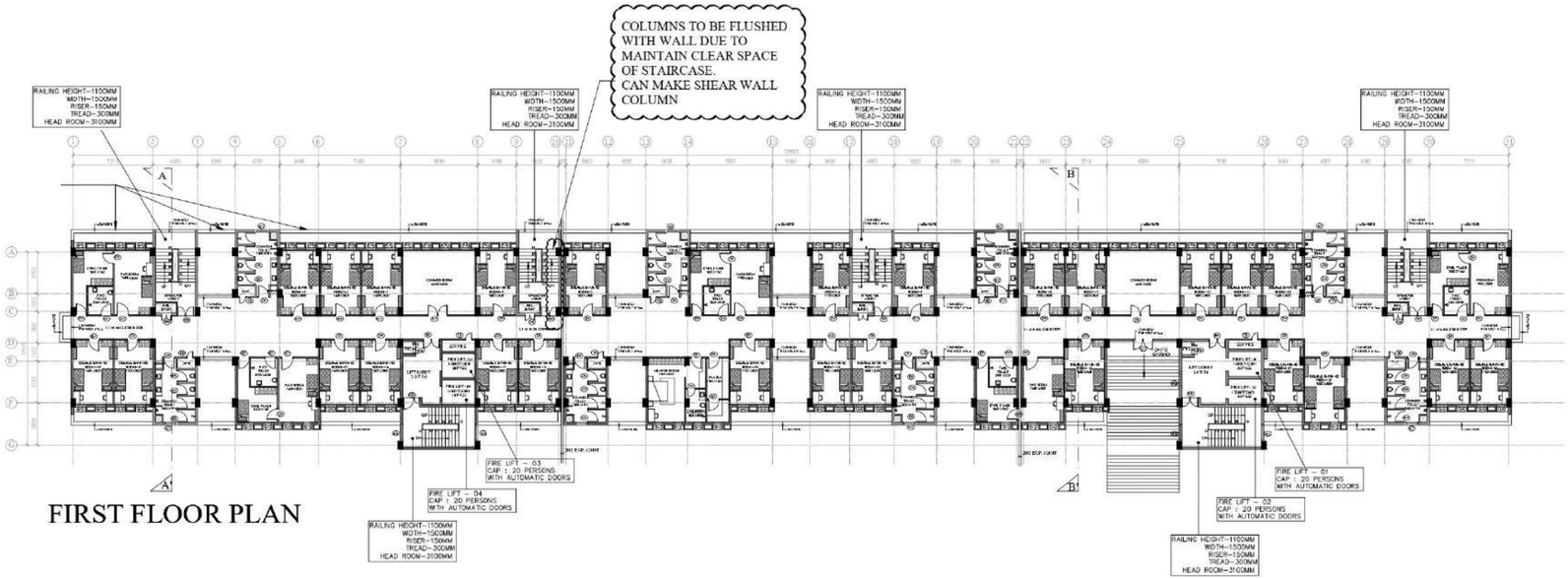
GROUND FLOOR PLAN



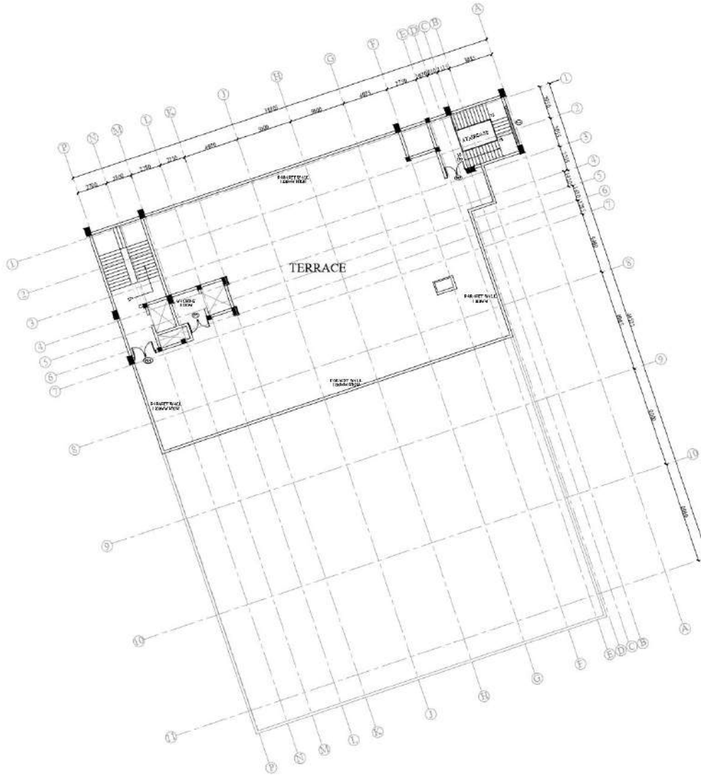
FIRST FLOOR PLAN

HOSTEL COMPLEX

FIRST FLOOR



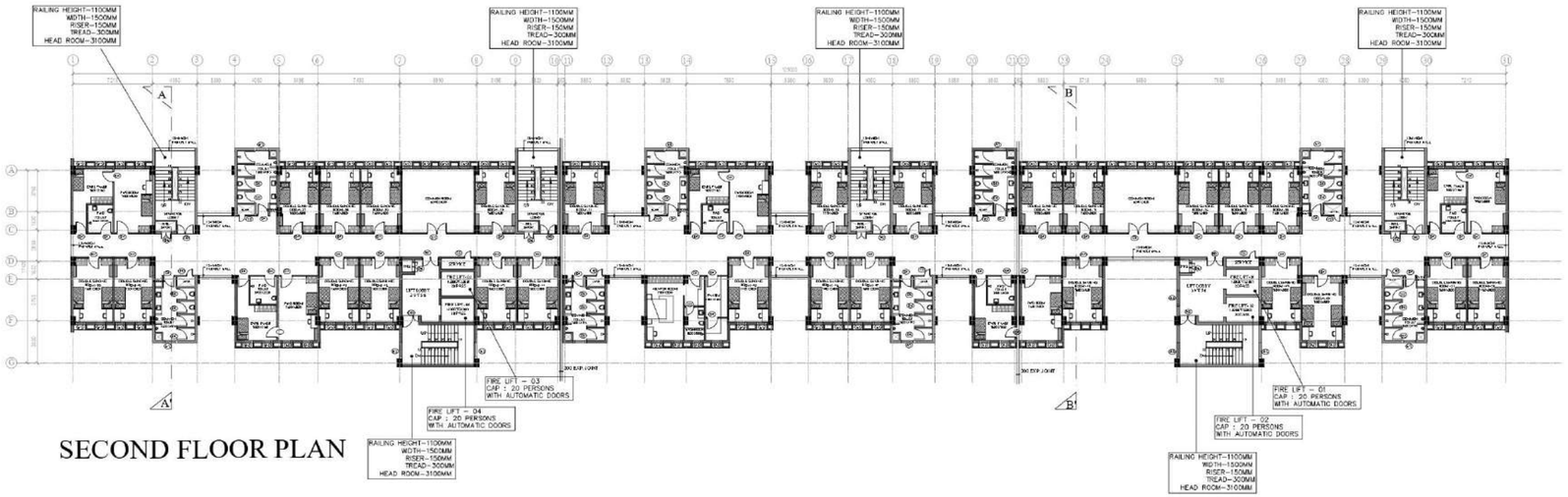
FIRST FLOOR PLAN



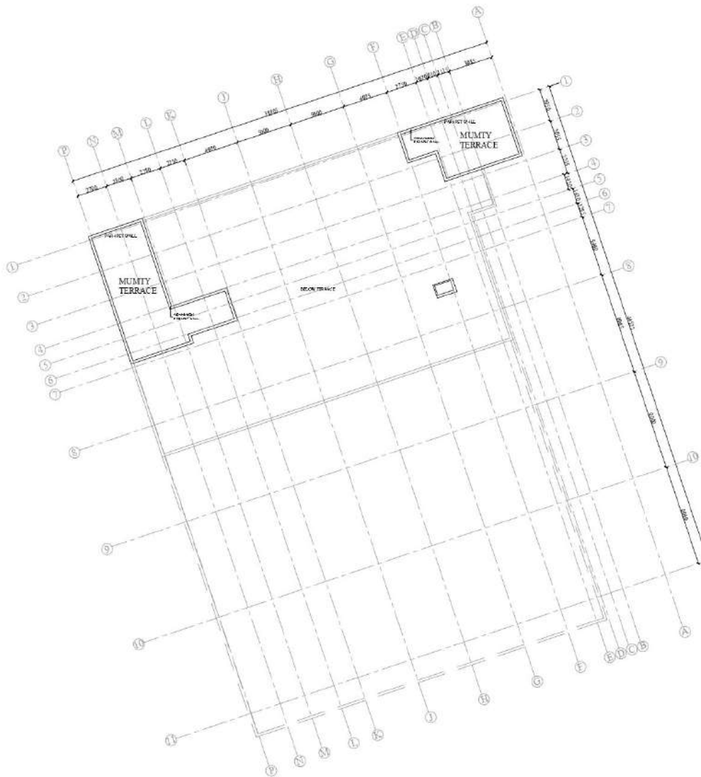
TERRACE PLAN

HOSTEL COMPLEX

SECOND FLOOR

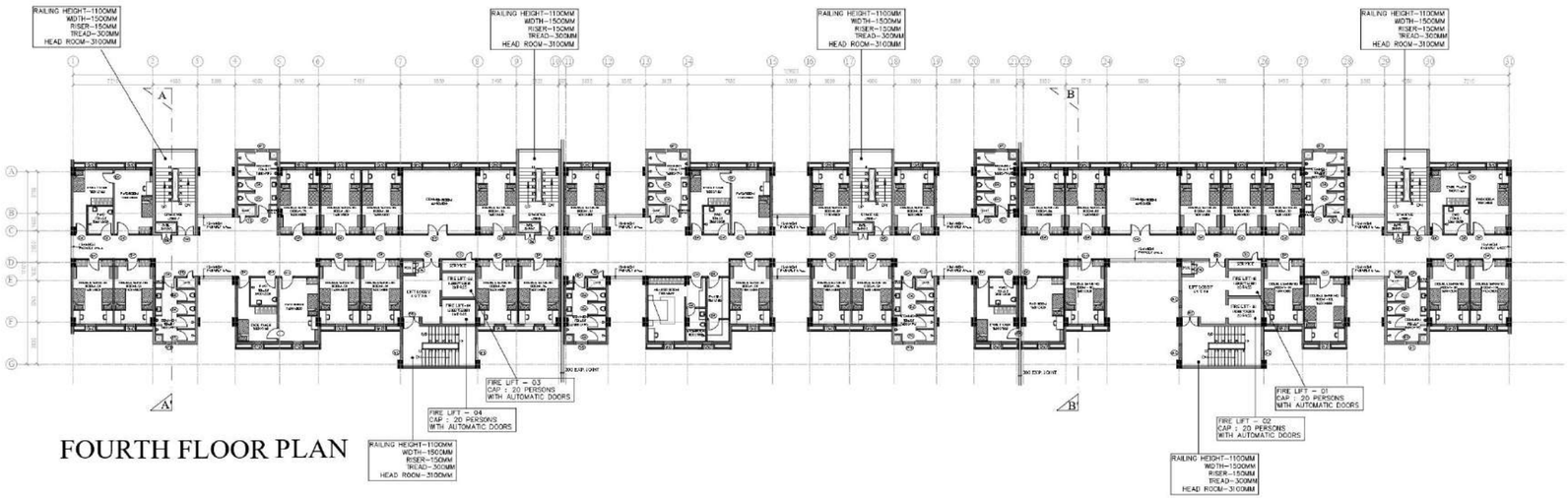


SECOND FLOOR PLAN

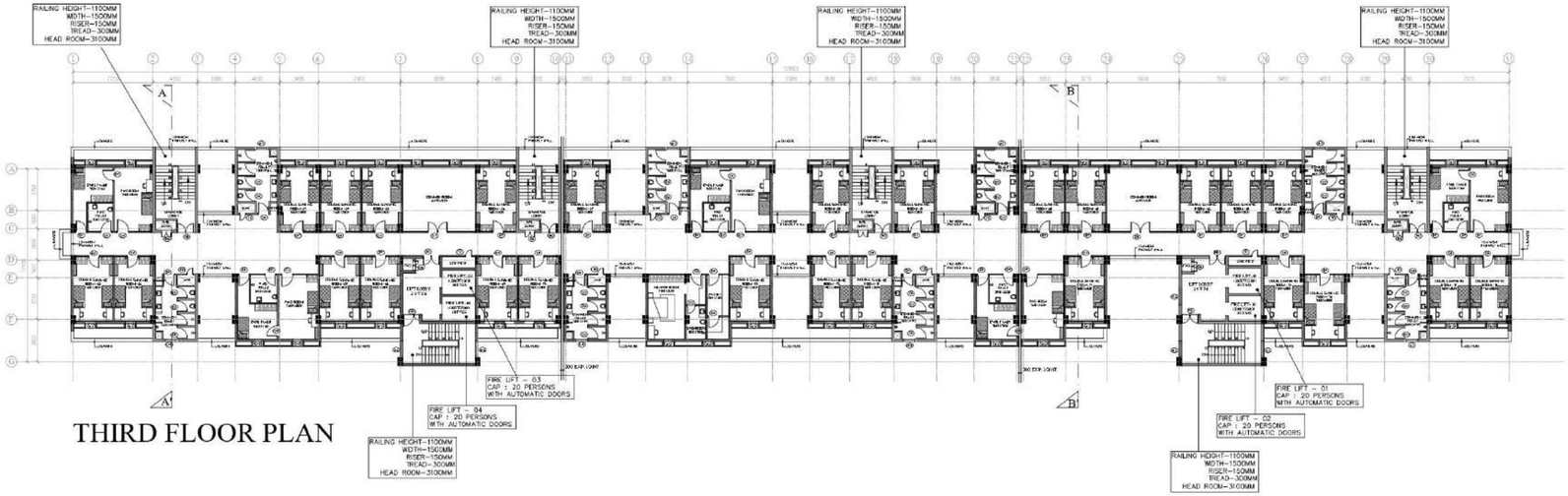


HOSTEL COMPLEX

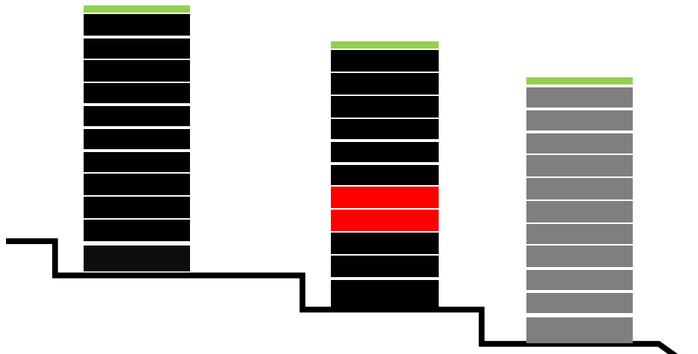
THIRD FLOOR & FOURTH FLOOR PLAN



FOURTH FLOOR PLAN

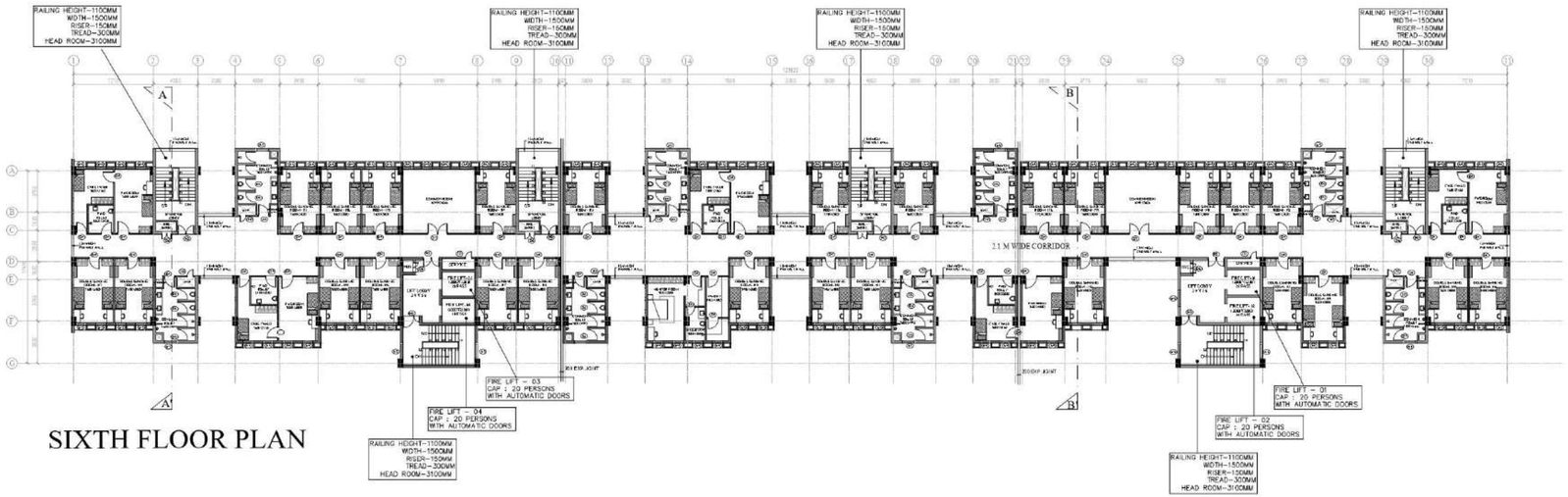


THIRD FLOOR PLAN

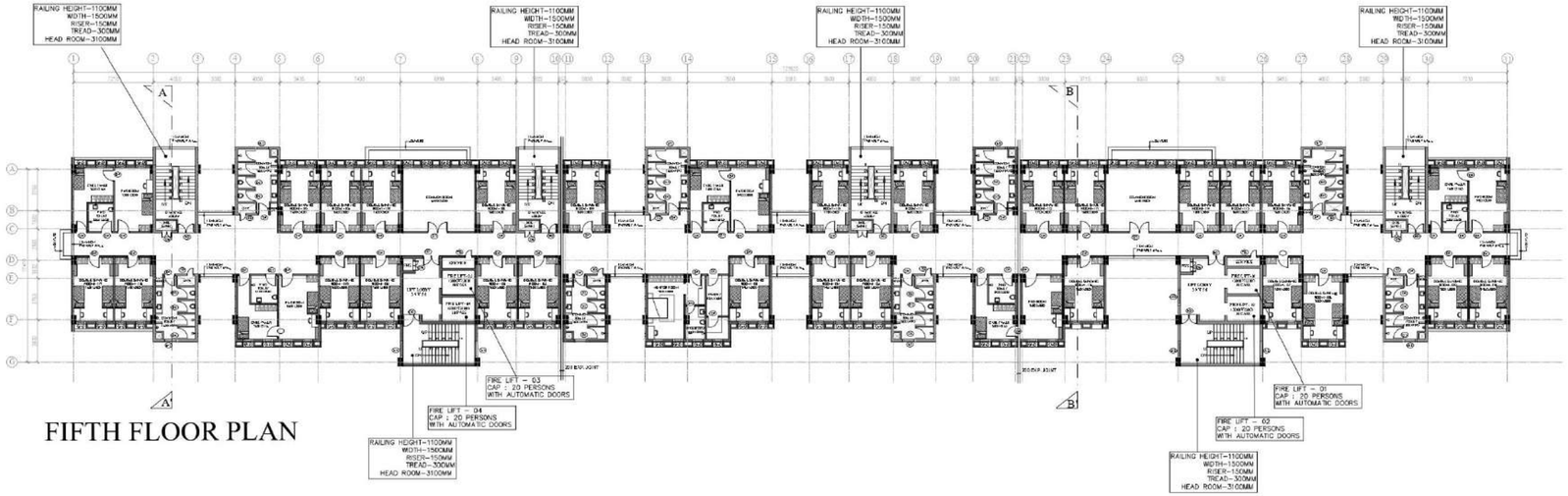


HOSTEL COMPLEX

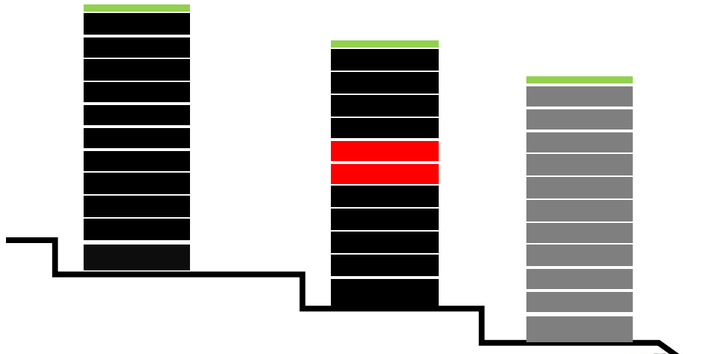
FIFTH FLOOR & SIXTH FLOOR PLAN



SIXTH FLOOR PLAN

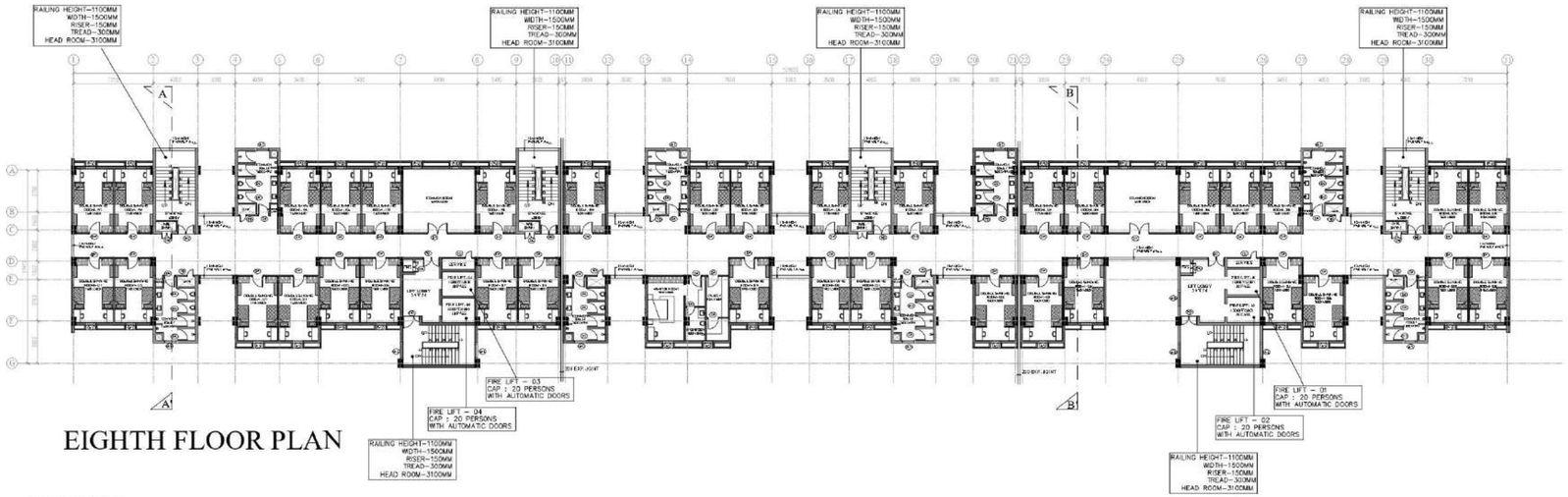


FIFTH FLOOR PLAN

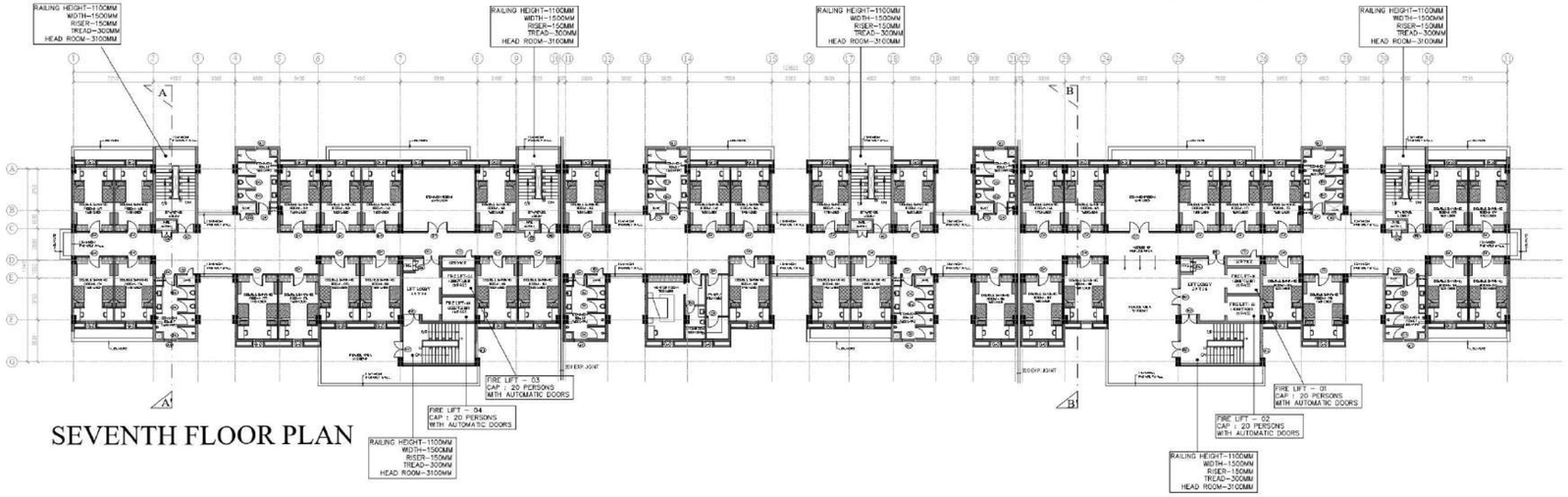


HOSTEL COMPLEX

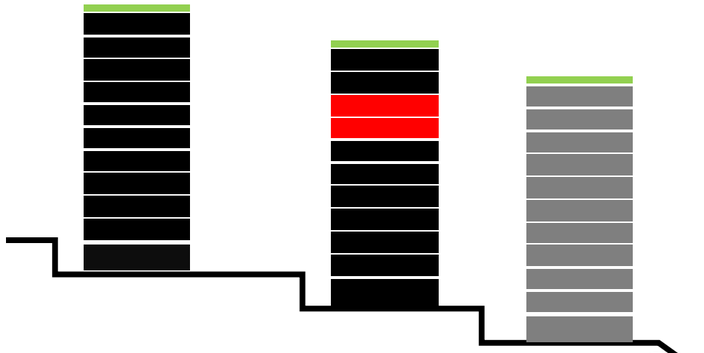
SEVENTH FLOOR & EIGTH FLOOR PLAN



EIGHTH FLOOR PLAN

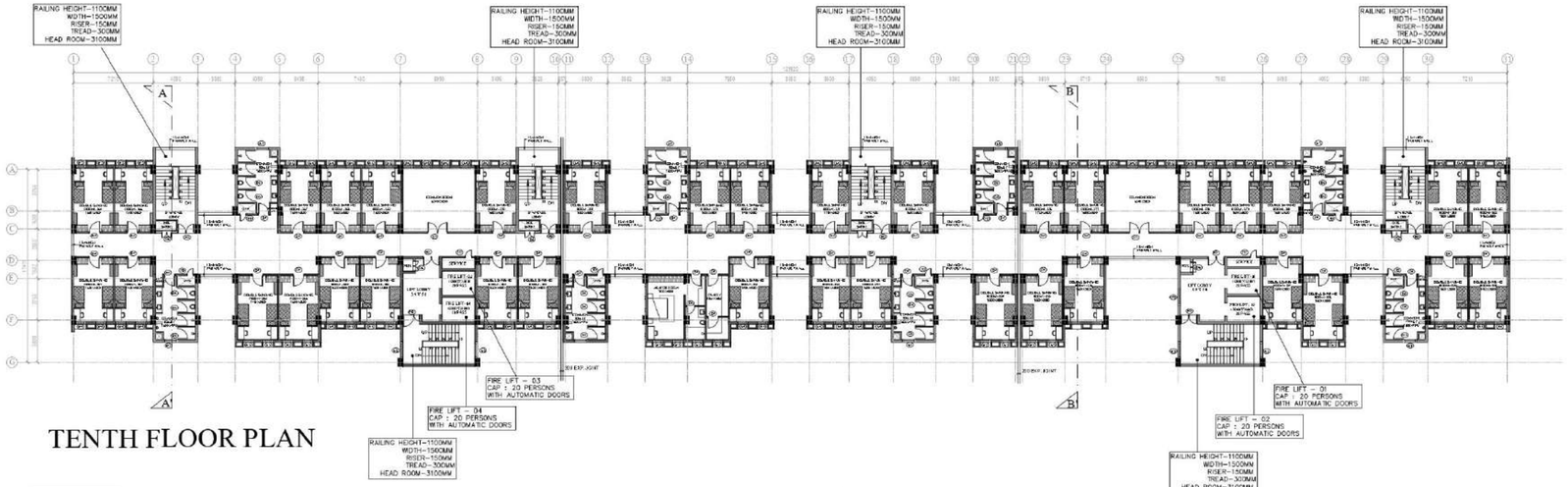


SEVENTH FLOOR PLAN

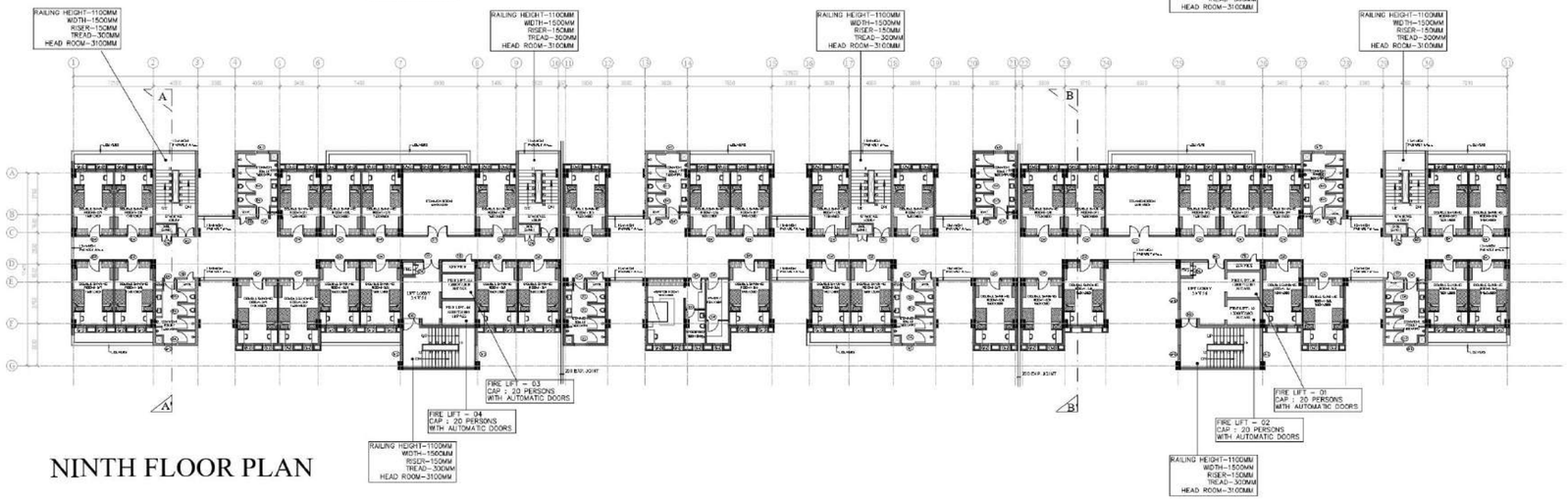


HOSTEL COMPLEX

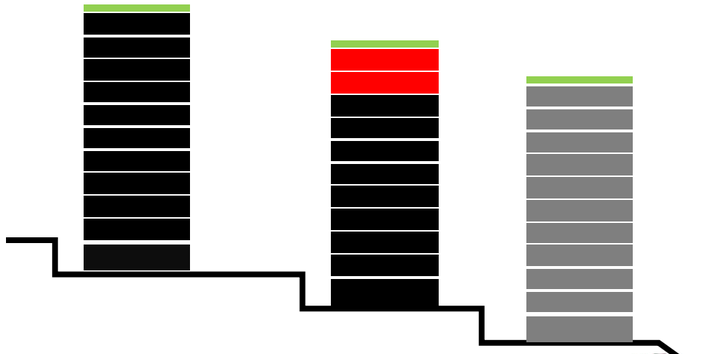
NINTH FLOOR & TENTH FLOOR PLAN



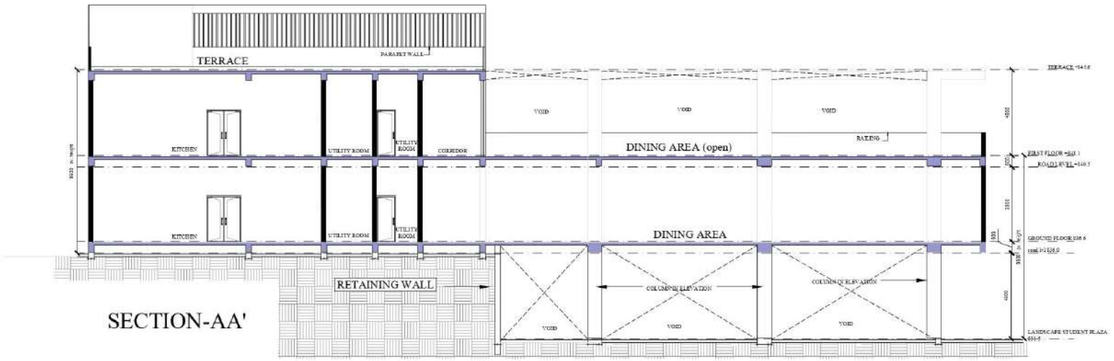
TENTH FLOOR PLAN

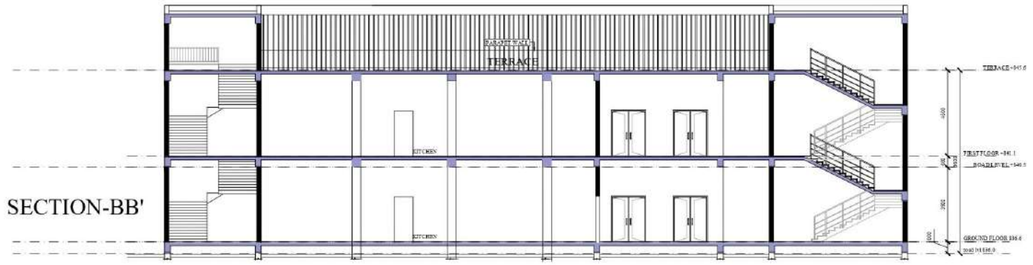


NINTH FLOOR PLAN

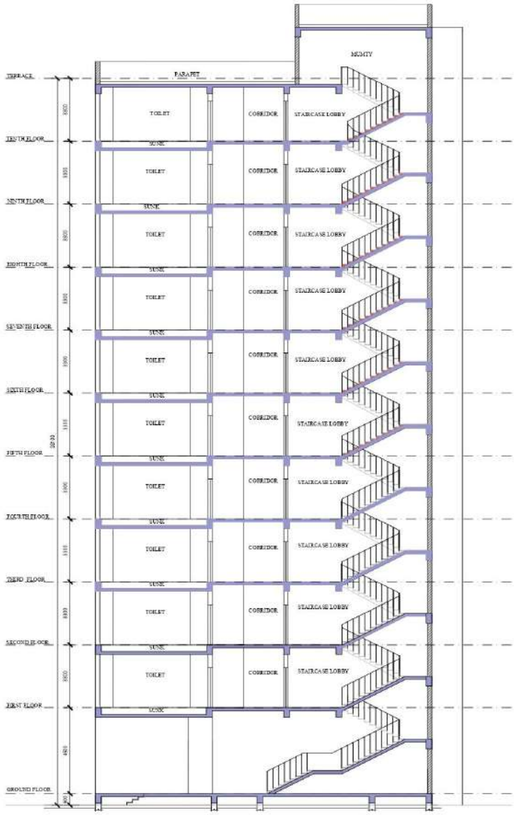


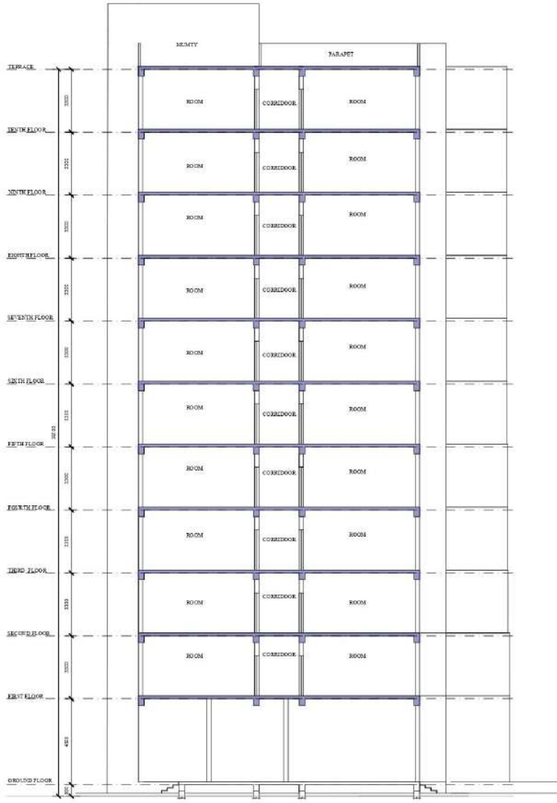
HOSTEL COMPLEX
SECTIONS





MESS BLOCK

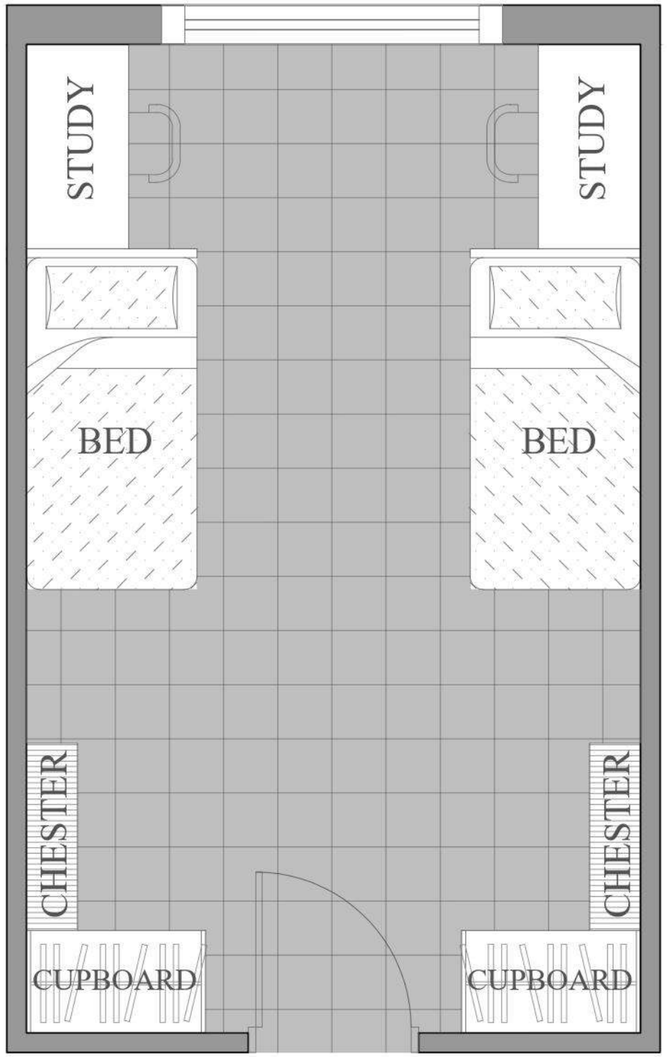


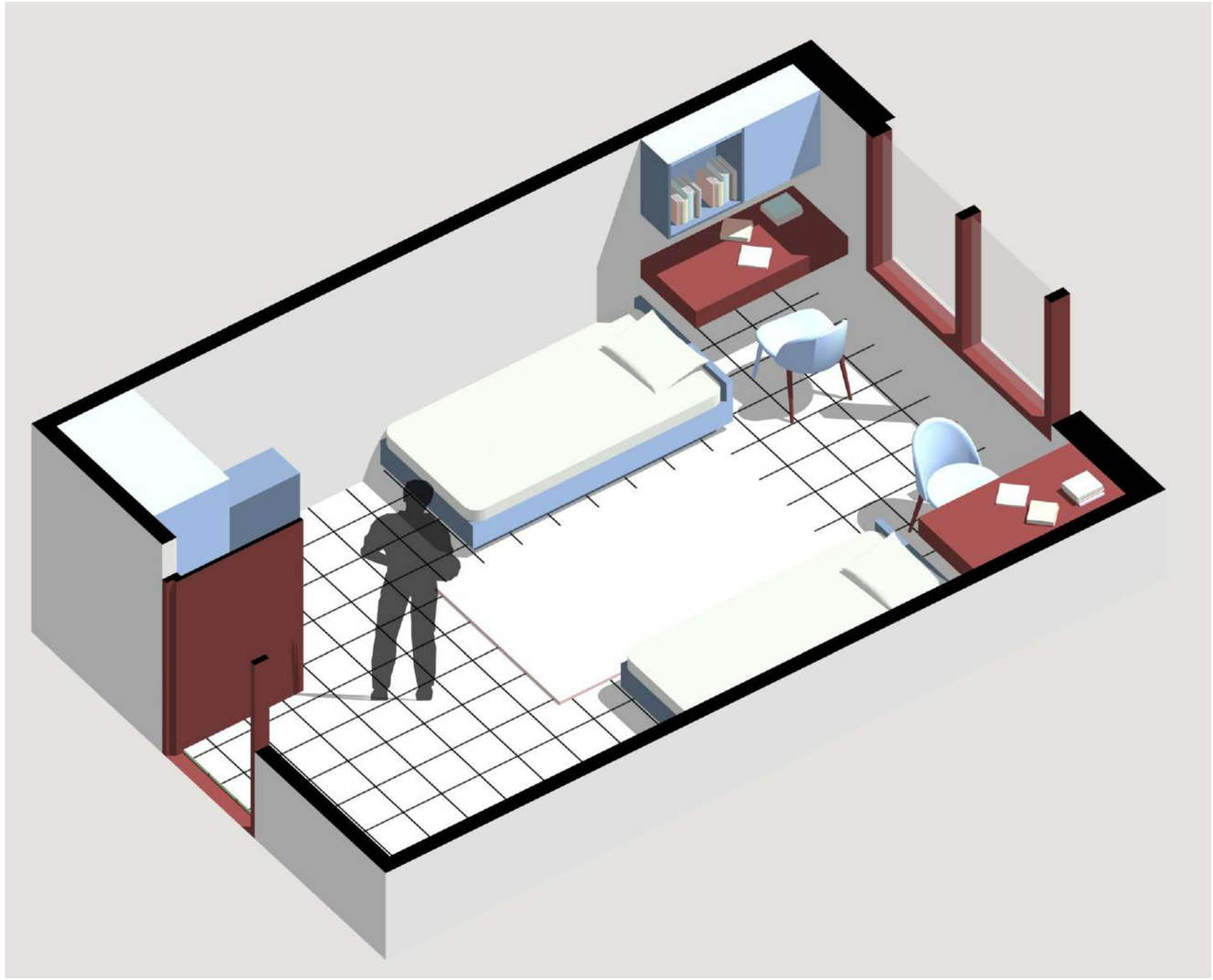


HOSTEL BLOCK

HOSTEL ROOM

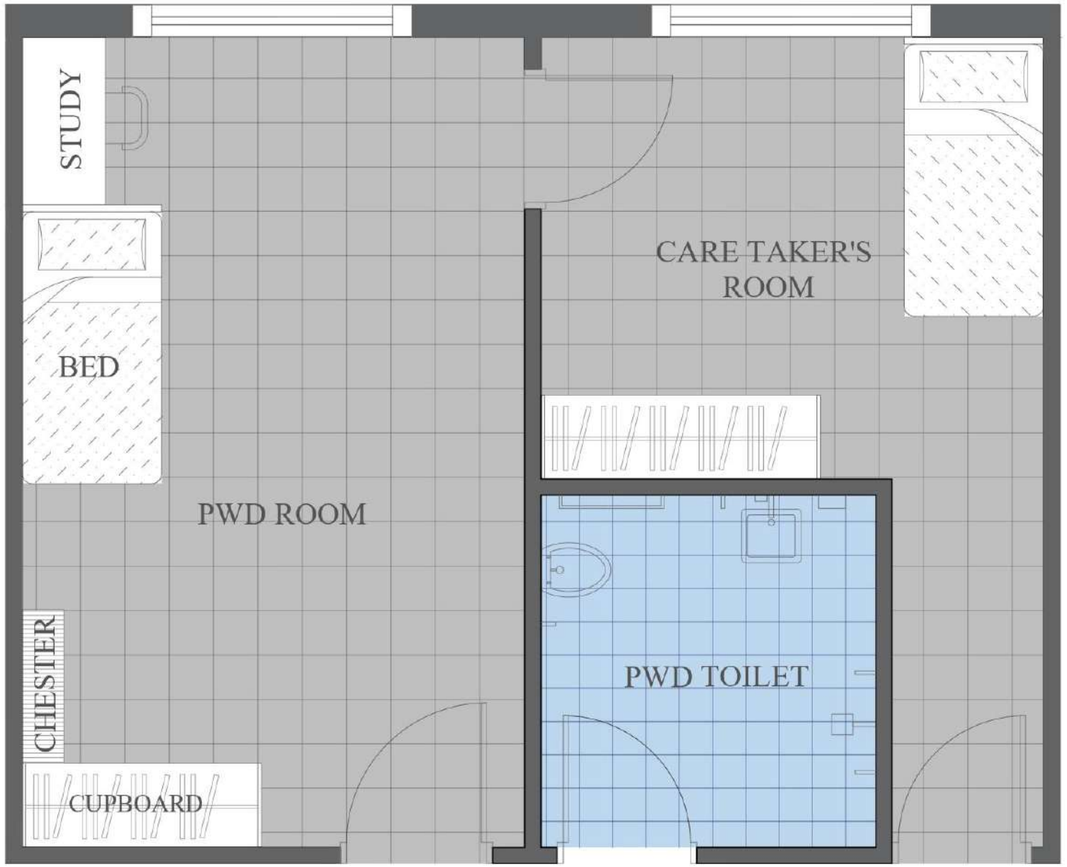
DOUBLE OCCUPANCY (3.6x5.8m)

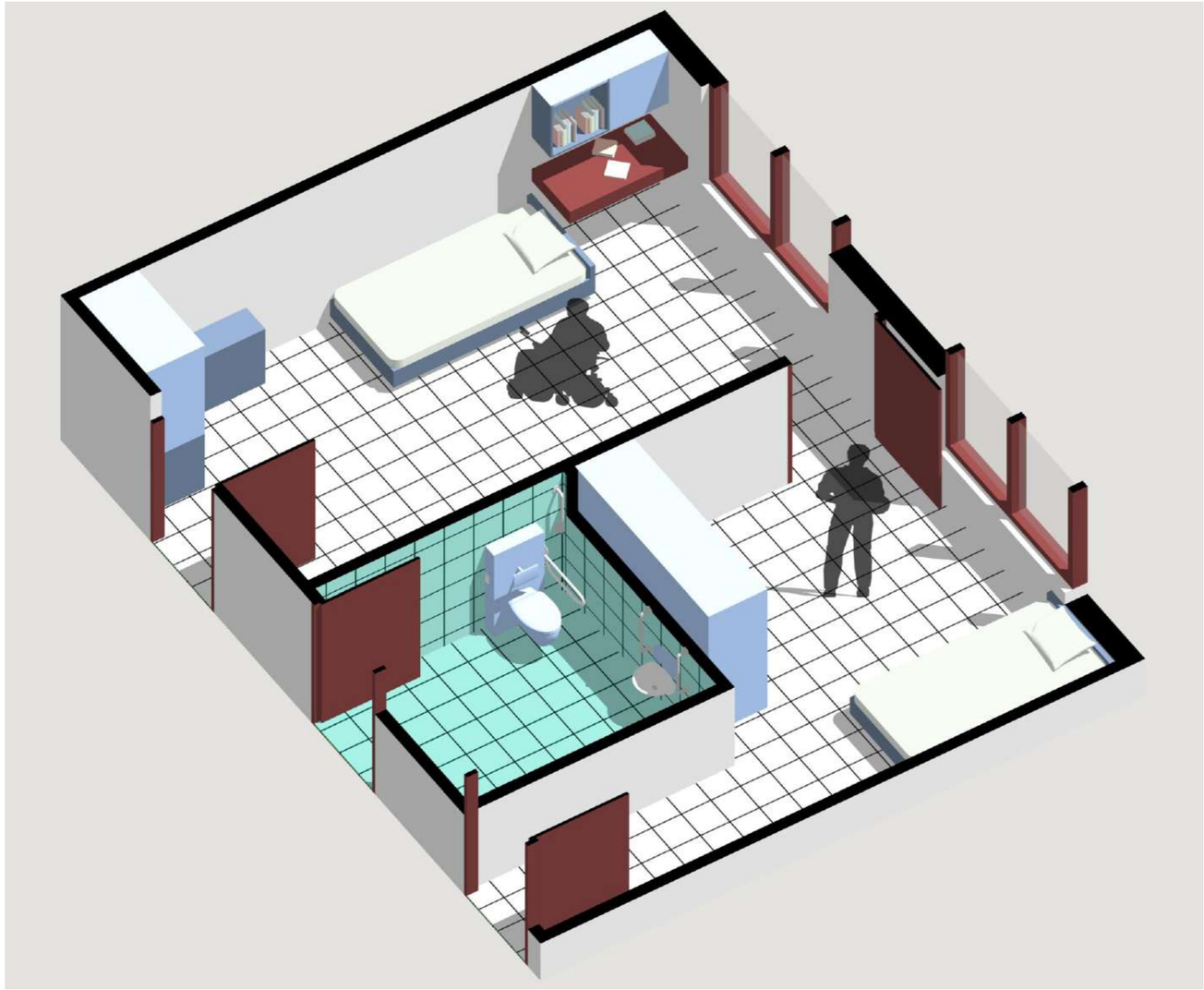




HOSTEL ROOM (PWD WITH CARETAKER)

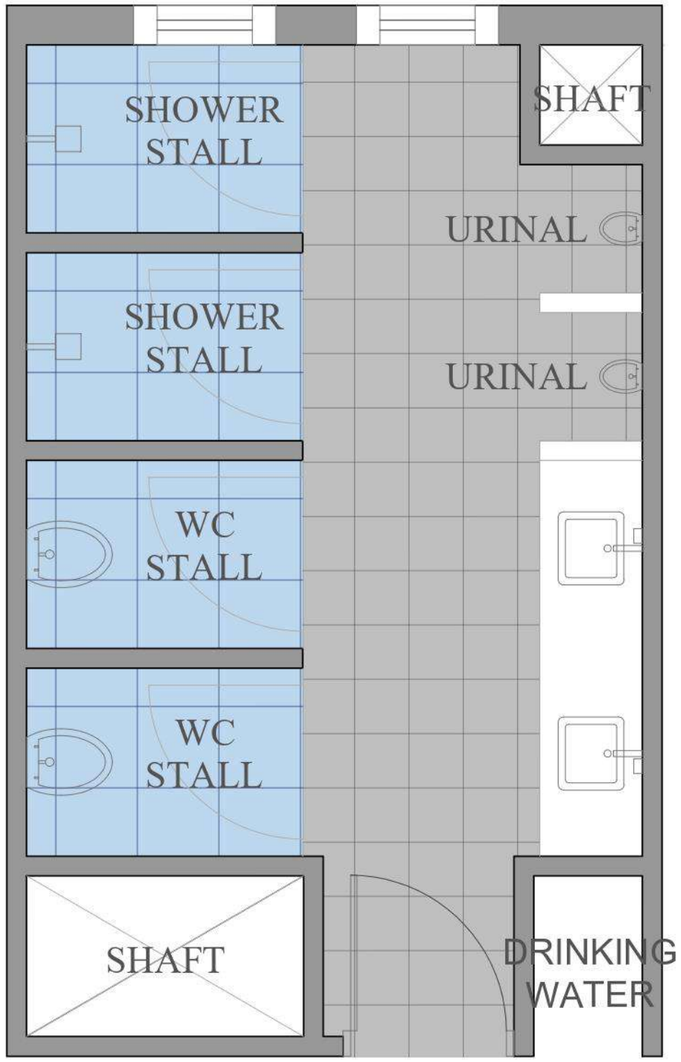
DOUBLE OCCUPANCY (7.2X5.8M)

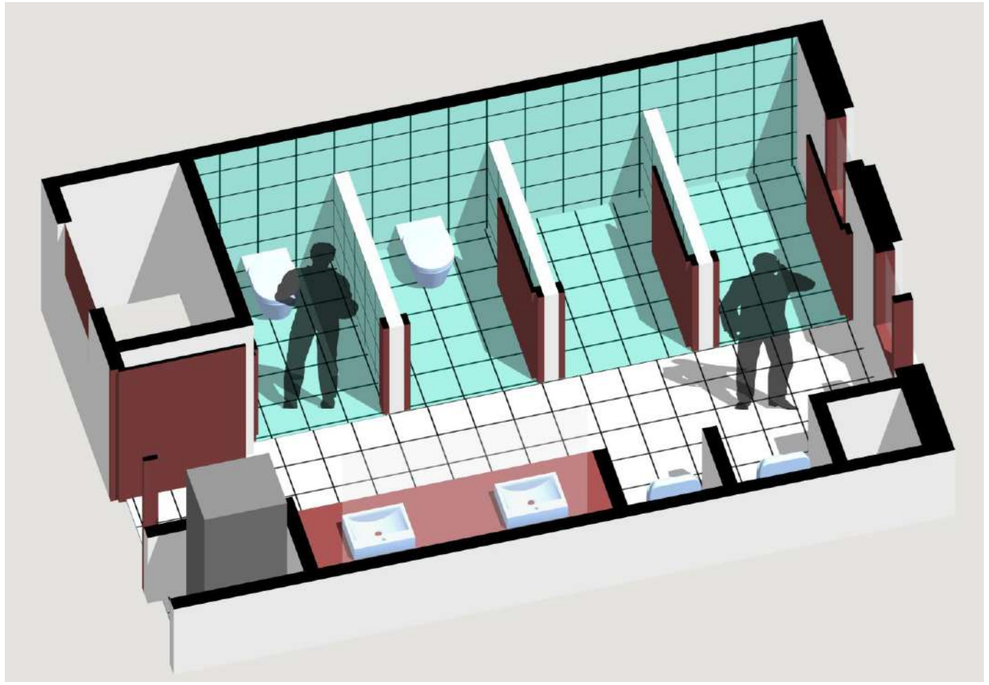




HOSTEL COMPLEX TOILET UNIT

3.6X 7.8 (RATIO 1:5)



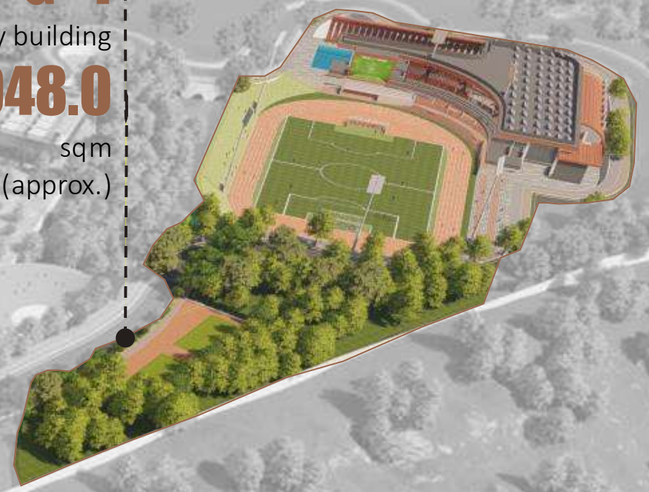


SPORTS COMPLEX

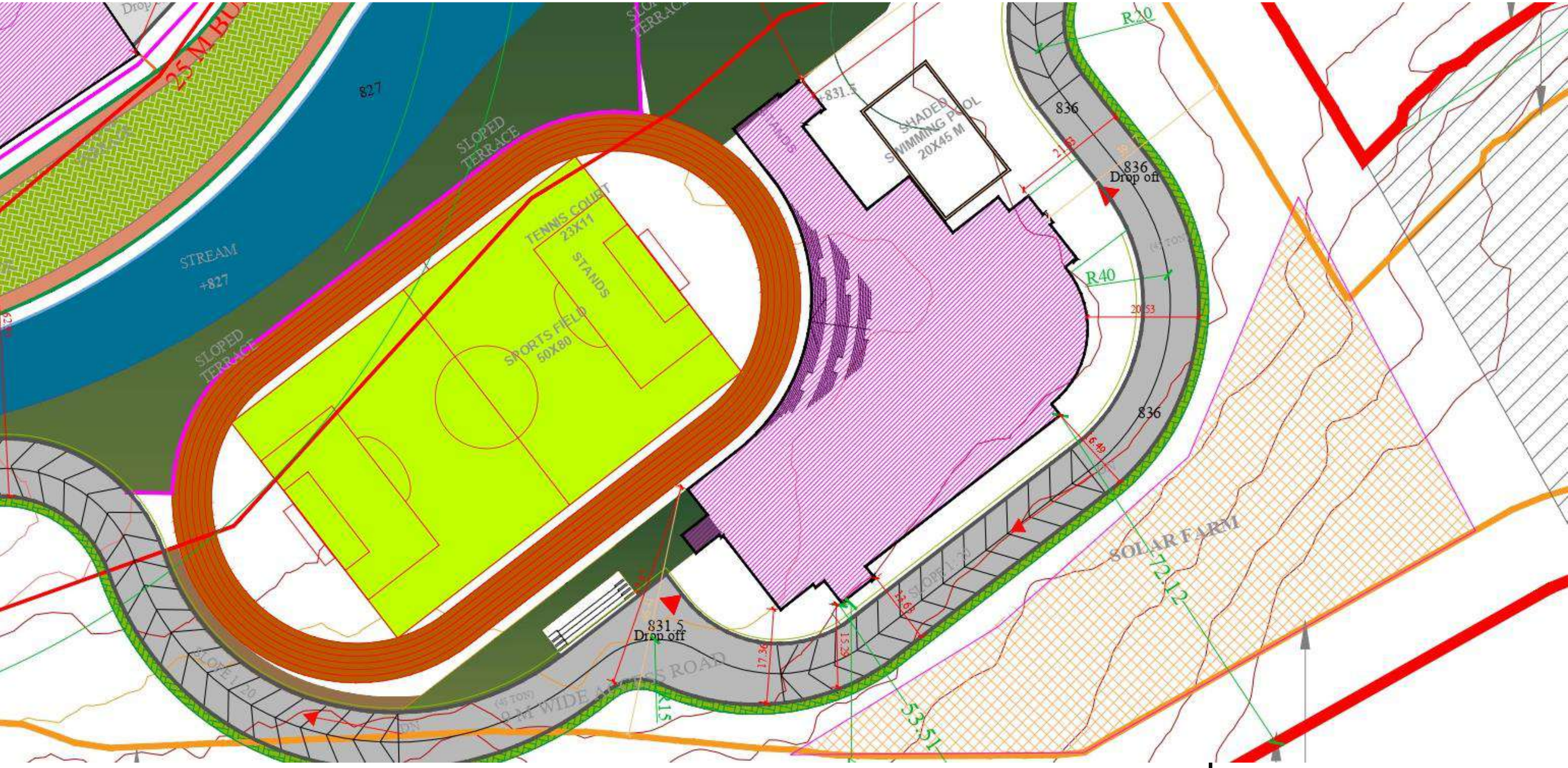
SPORTS COMPLEX

G+1
Storey building

5948.0
sqm
Built-up (approx.)



SITE PLAN

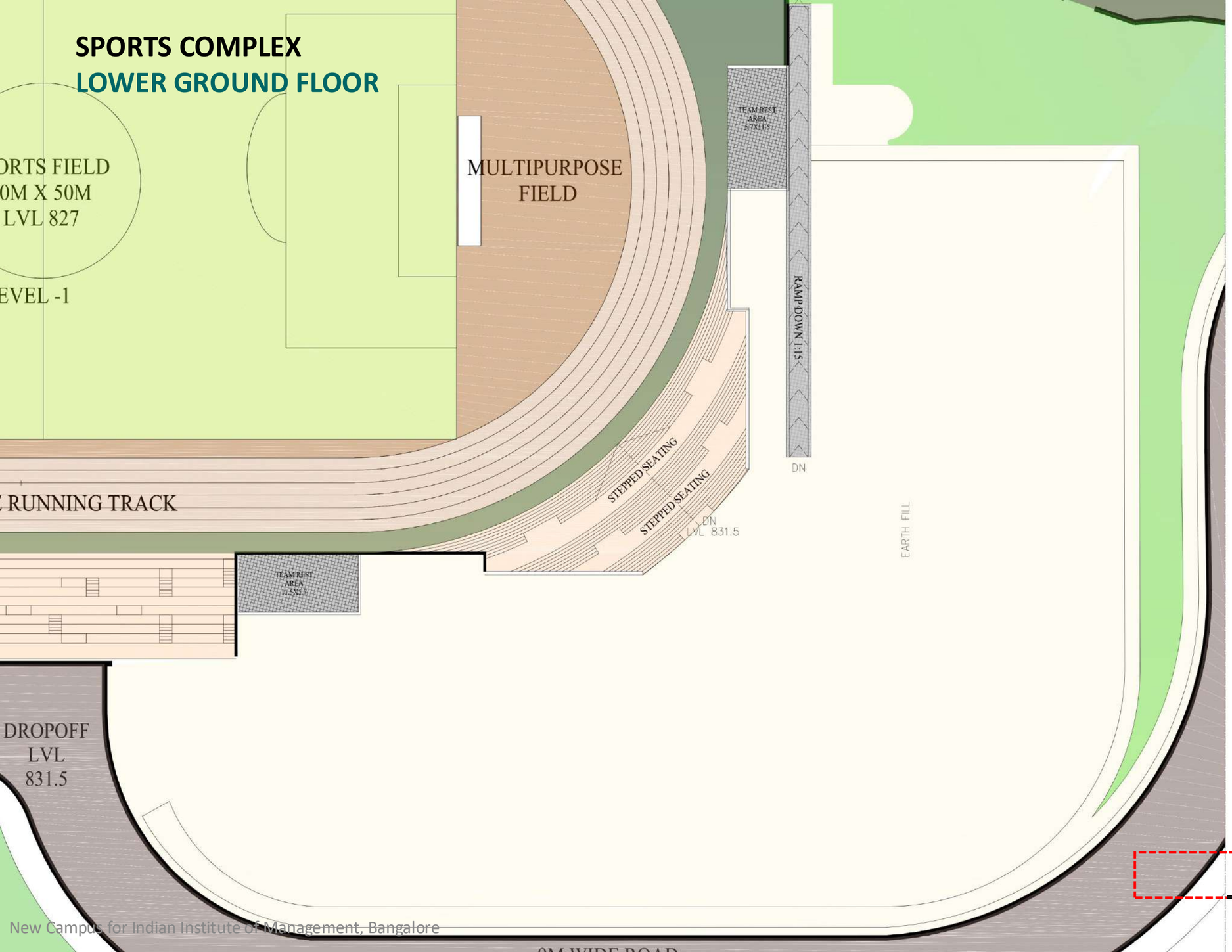

25 M BU
827
SLOPED TERRACE
STREAM
+827
SLOPED TERRACE
TENNIS COURT 23X11
STANDS
SPORTS FIELD 50X80
831.5
SHADED SWIMMING POOL 20X45 M
836
836 Drop off
R20
R40
20.53
6.49
836
831.5 Drop off
17.36
15.29
4.68
SOLAR FARM
72.12
53.51
R15

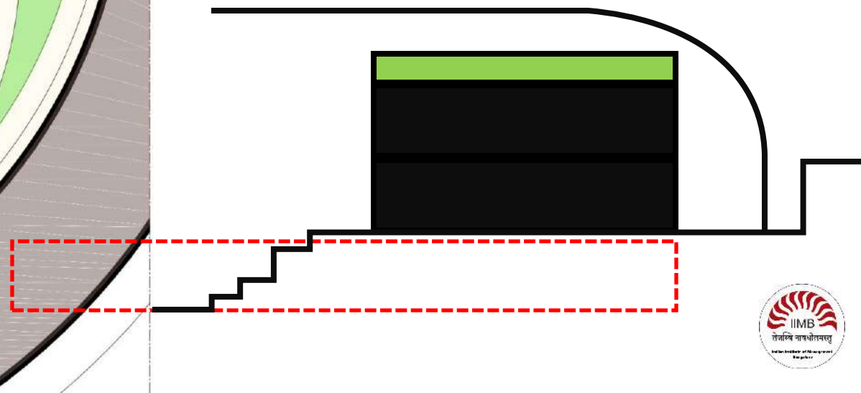
SPORTS COMPLEX

AREA SUMMARY AS PER DESIGN

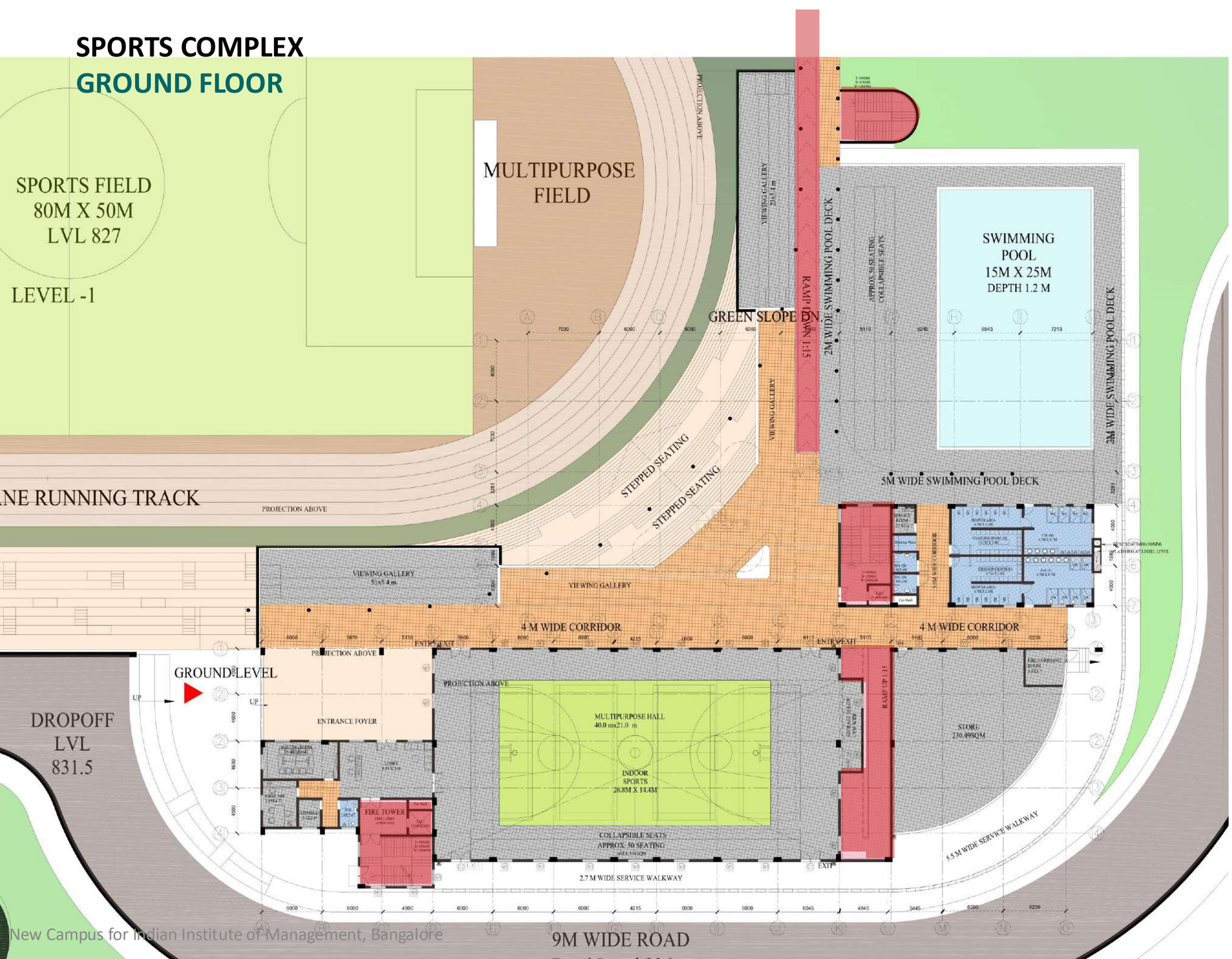
SPORTS COMPLEX		
S.NO	FLOOR	AS PER DESIGN TOTAL BUILT-UP AREA SQ.MT.
1	LEVEL AT +827	132.00
2	GROUND FLOOR	2946.00
3	FIRST FLOOR	2711.00
4	TERRACE/ MUMTY FLOOR	159.00
	TOTAL	5948.00

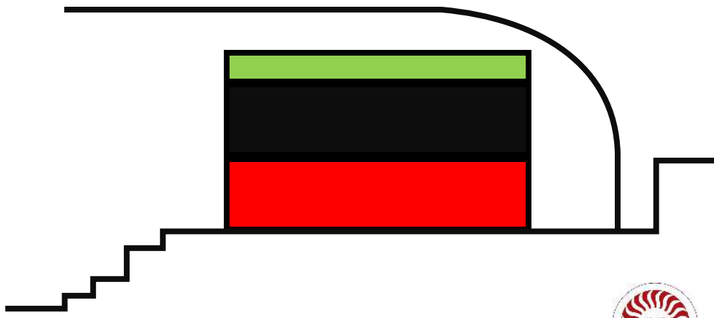
SPORTS COMPLEX
LOWER GROUND FLOOR





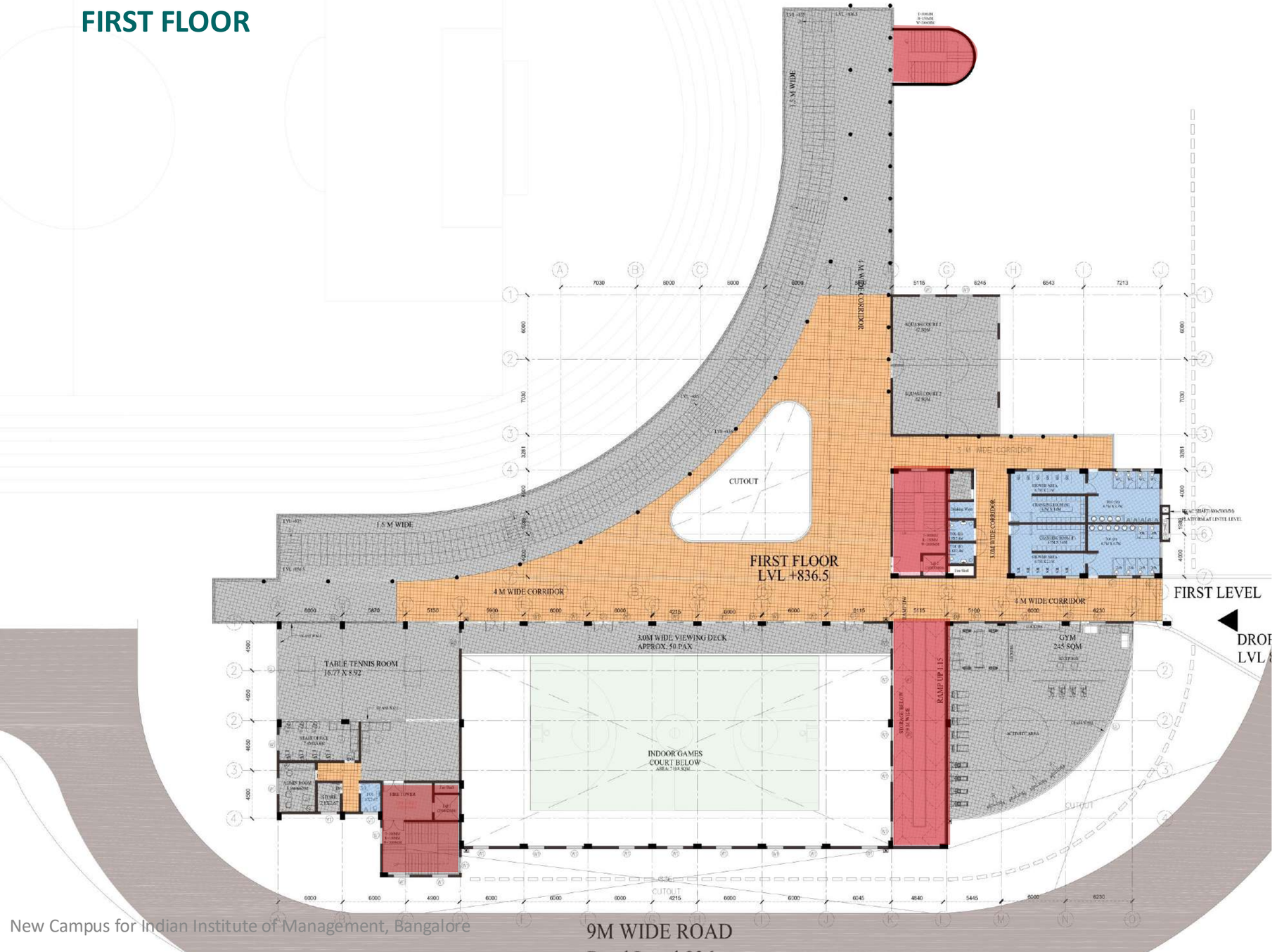
SPORTS COMPLEX
GROUND FLOOR





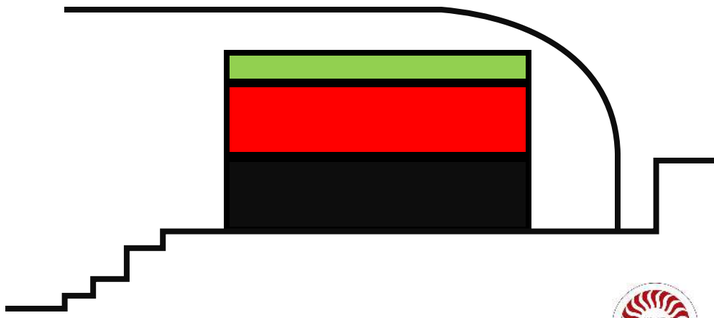
SPORTS COMPLEX

FIRST FLOOR

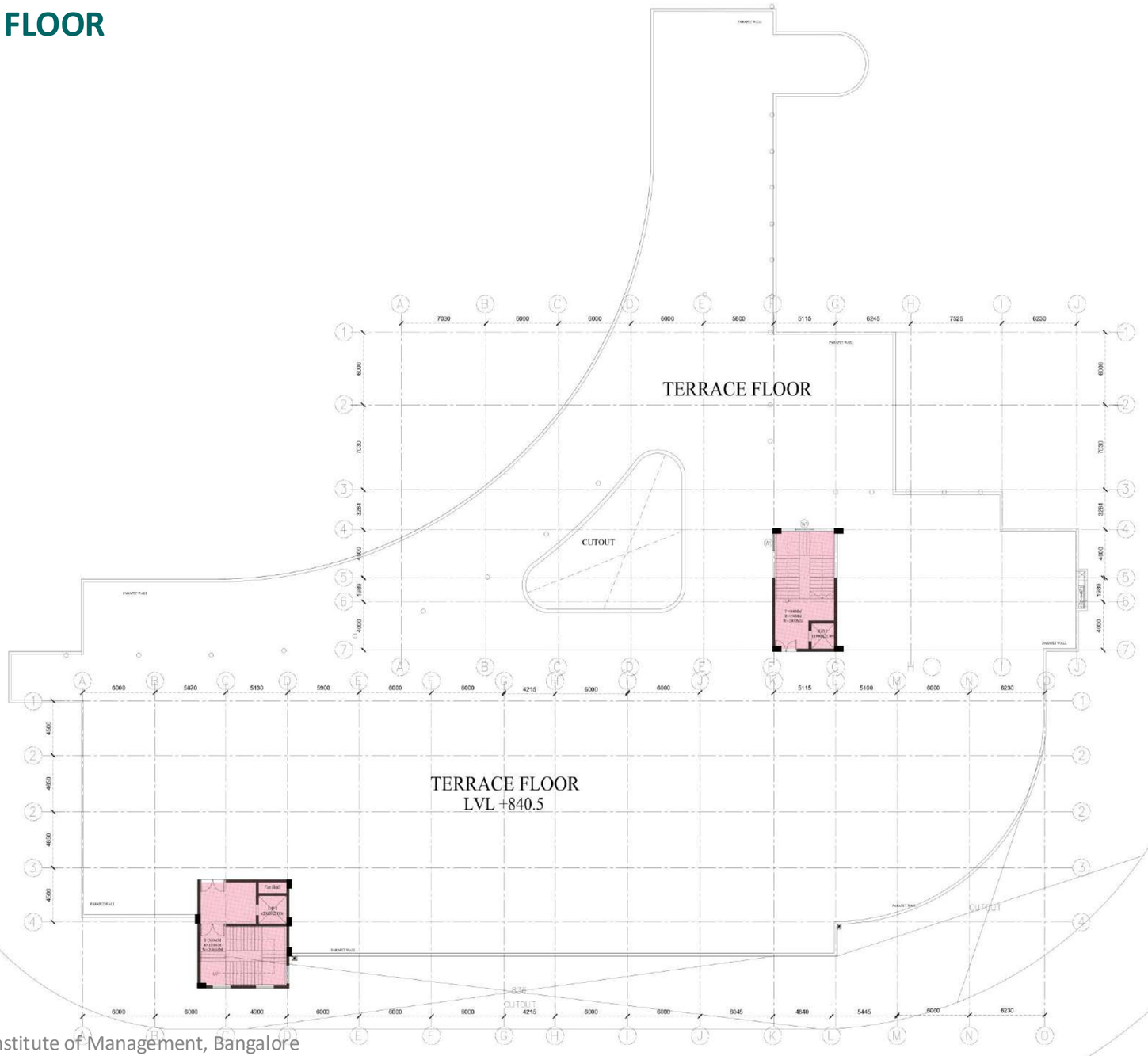


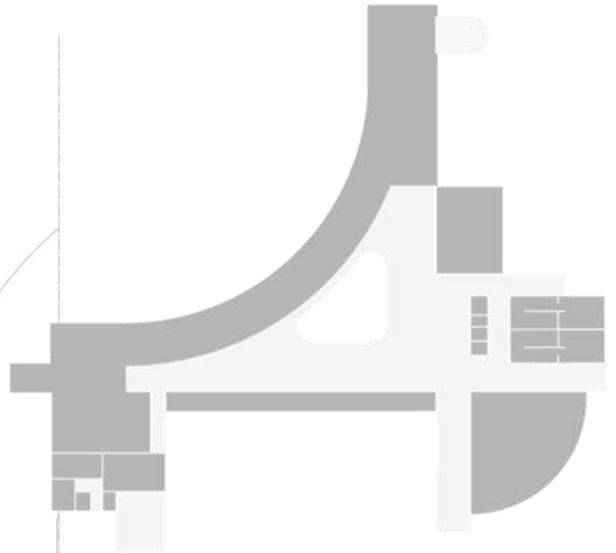
CARPET AREA

CIRCULATION AREA



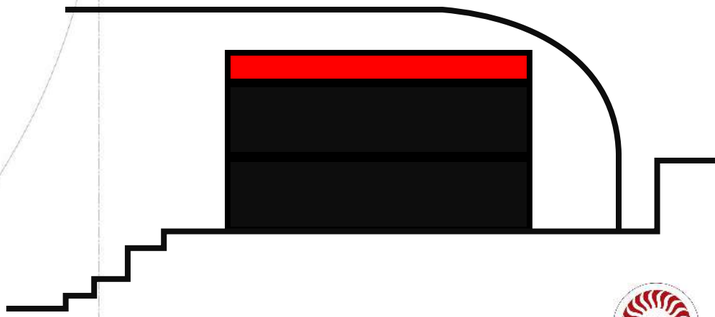
SPORTS COMPLEX
TERRACE FLOOR

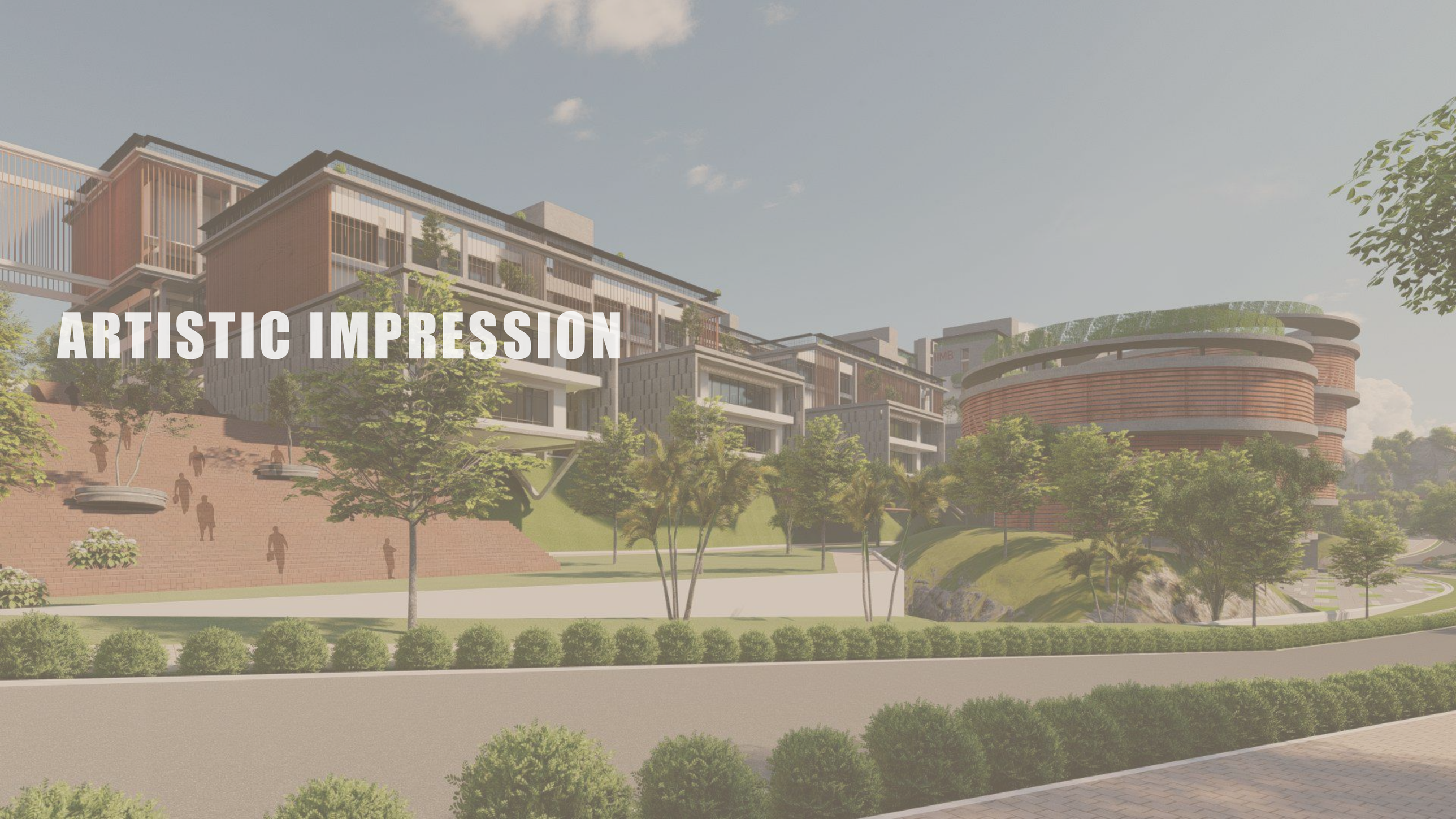




Road Level 836

HORIZONTAL CIRCULATION AREA



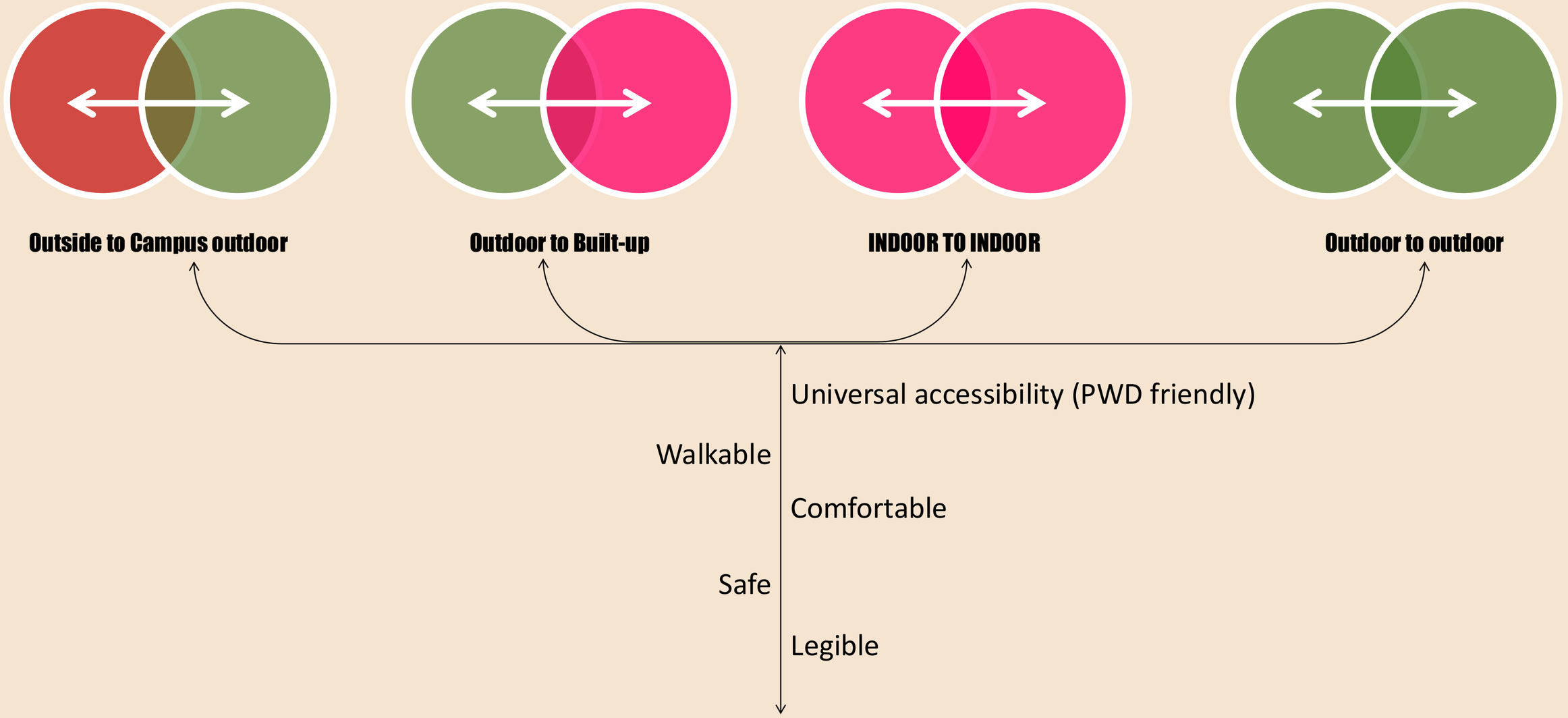

ARTISTIC IMPRESSION


Indian Institute of Management Bangalore
IIMB


TEAM ONE
00:02
TEAM TWO
0 SHOTS 2
2 SHOTS ON TARGET 4
2 CORNERS 6
3 FOULS COMMITTED 1
0 OFFSIDES 1
30% BALL POSSESSION 70%
0 BOOKING 5


00:02
SHOTS
SHOTS ON TARGET
CORNERS
FOULS COMMITTED
OFFSIDES
BALL POSSESSION
BOOKING

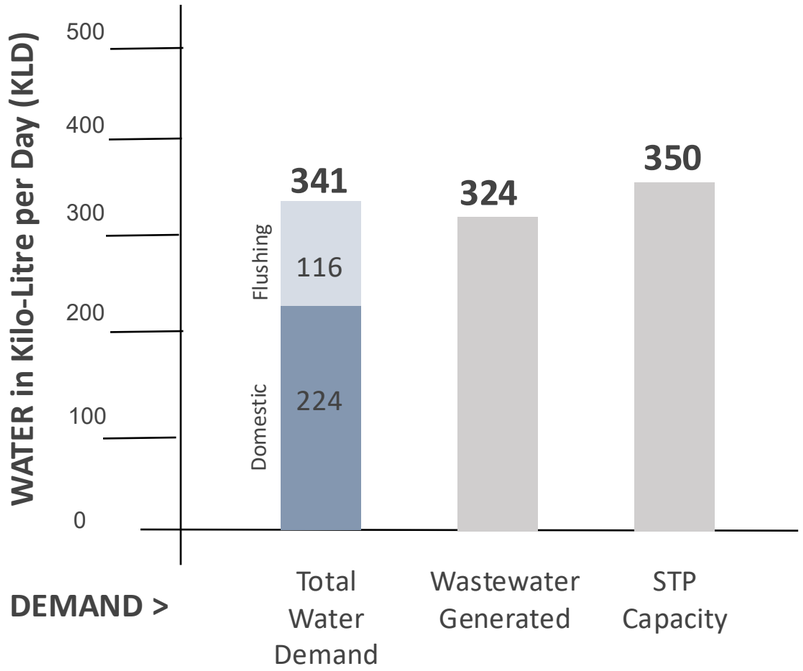

TEAM ONE
00:02
TEAM TWO
0 SHOTS 2
2 SHOTS ON TARGET 4
2 CORNERS 6
3 FOULS COMMITED 1
0 OFFSIDES 1
30% BALL POSSESSION 70%
0 BOOKING 5

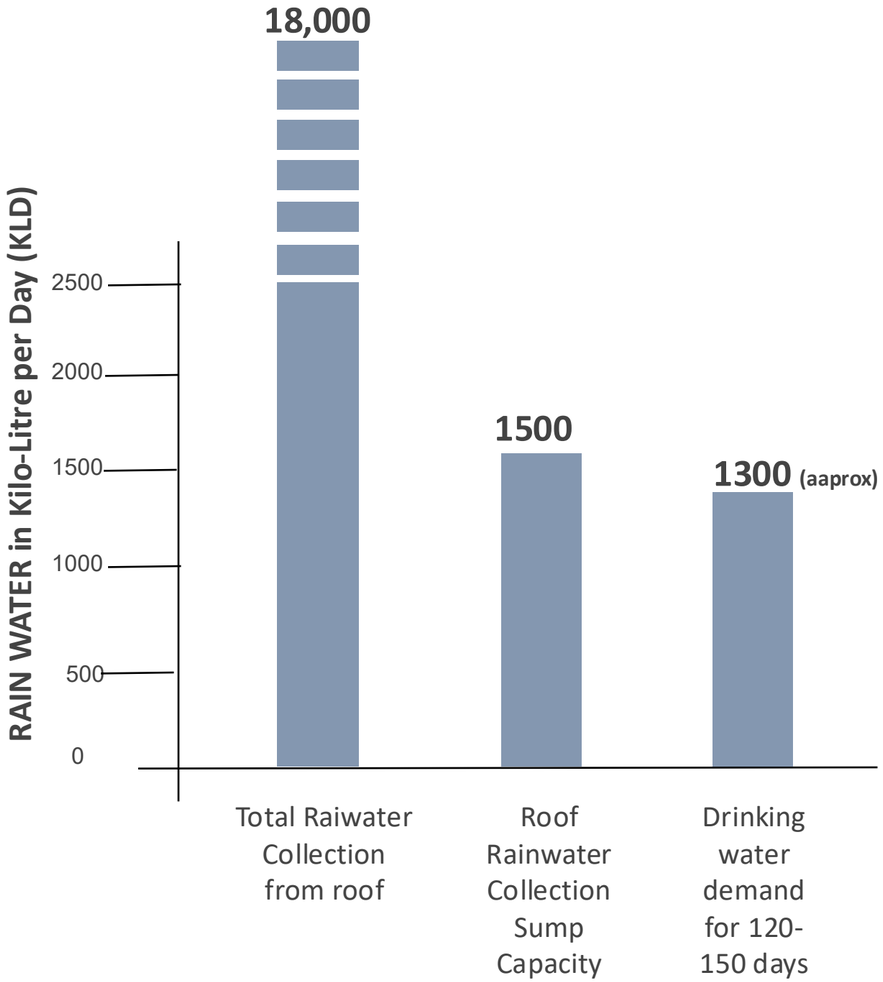

Outside to Campus outdoor
Outdoor to Built-up
INDOOR TO INDOOR
Outdoor to outdoor
Universal accessibility (PWD friendly)
Walkable
Comfortable
Safe
Legible

SUSTAINABILITY

Strategy / System	REDUCE	PRODUCE	RECOVER
	PASSIVE DESIGN STRATEGIES	ACTIVE DESIGN STRATEGIES	CLOSE THE LOOP
GREEN	- Cut & Fill - Built-up on ground - Preserve existing ecology	- Green cover - Biophilic experience - Water conservation	- Kitchen garden - Leaves - Topsoil nutrition
WATER	- Water demand - Water pollution - Water wastage	- Greywater recycling & distribution - Stormwater detention	- Treatment Plants - Rainwater reservoir - Wetland - Bioswales
BUILT-UP	- Resource demand - Reduce heat gain - Embodied energy - Urban heat island effect	- Rooftop Solar PV - Solar Farm - Solar Hot Water System	- Kitchen gardens - Composting
PUBLIC SPACE	- Negative social spaces	- Social cohesion - Well-being - Porosity - Accessibility - Positive Social Impact	
WASTE	- Waste generation	- Awareness about recycling, upcycling & composting	- Kitchen gardens - Composting

WATER





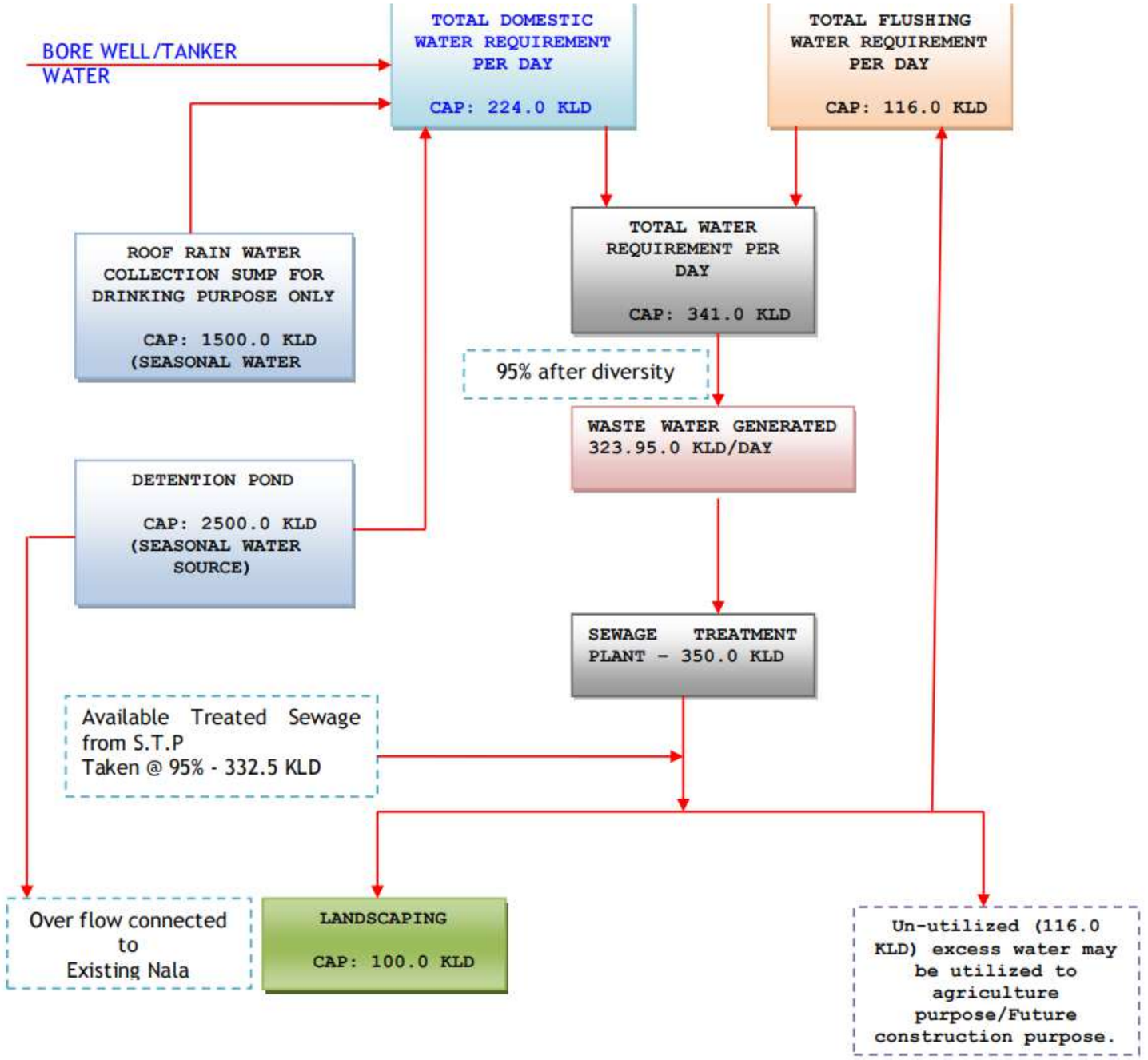
REDUCE
- Water demand
- Water pollution
- Water wastage

PRODUCE
- Greywater recycling & distribution
- Stormwater detention

RECOVER
- Treatment Plants
- Rainwater reservoir
- Wetland
- Bioswales

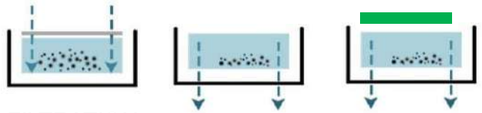
WATER

WATER BALANCE CHART

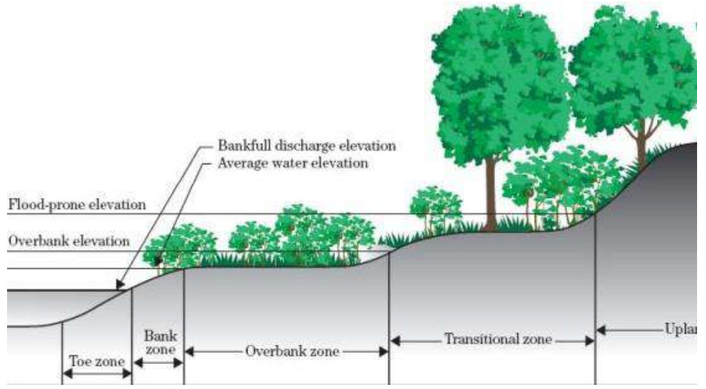


FLOOD MITIGATION STRATEGY THROUGH LANDSCAPE

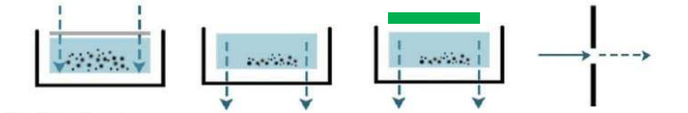
RAIN GARDENS



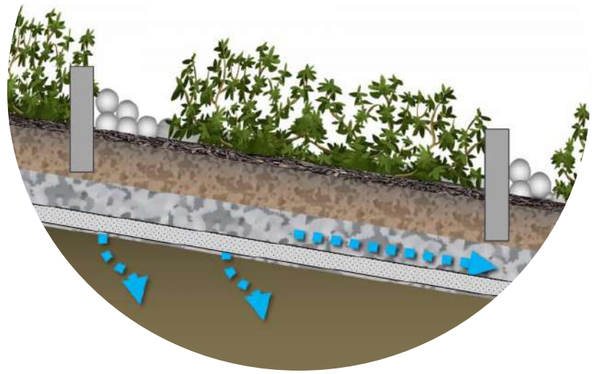
FILTRATION | INFILTRATION | BIOLOGICAL ABSORPTION



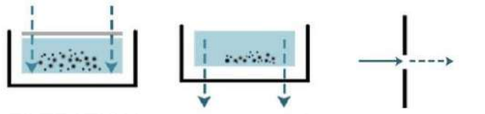
RIPRAIN BUFFER



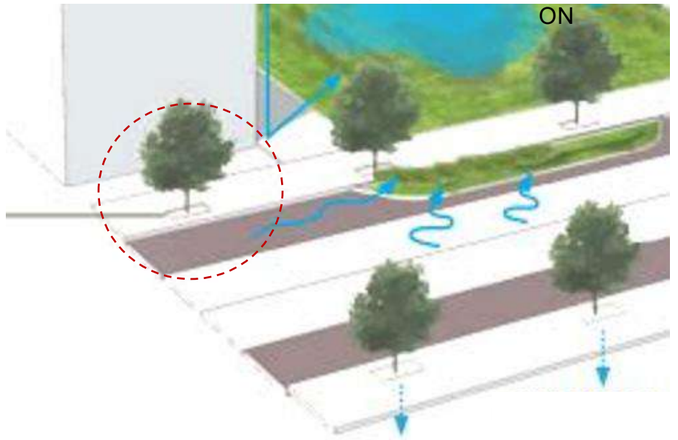
FILTRATION | INFILTRATION | BIOLOGICAL ABSORPTION | DETENTION & EVAPORATION



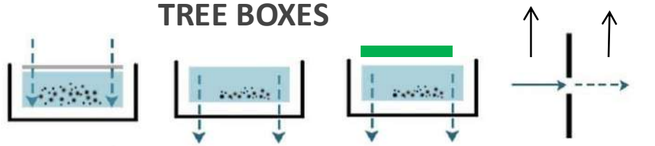
CHECKDAMS & BIOSWALES



FILTRATION | INFILTRATION | DETENTION

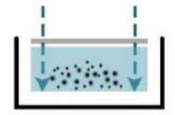


TREE BOXES



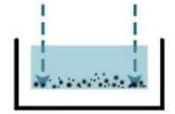
FILTRATION | INFILTRATION | BIOLOGICAL ABSORPTION | DETENTION & EVAPORATION

RAINWATER HARVESTING STRATEGY



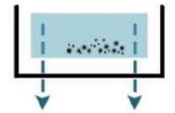
1.FILTRATION

To separate sediments from water by interposing a medium (filter)



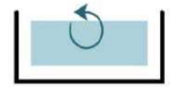
2.SEDIMENTATION

To Settle down entrained particles of water flow



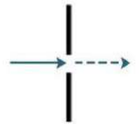
3.INFILTRATION

To allow water seep into the soil and recharge aquifer



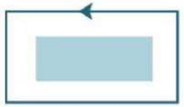
4.RECYCLE

To recycle nutrients, reuse cleaner water, etc.



5.DETENTION

To reduce rainwater's peak flow



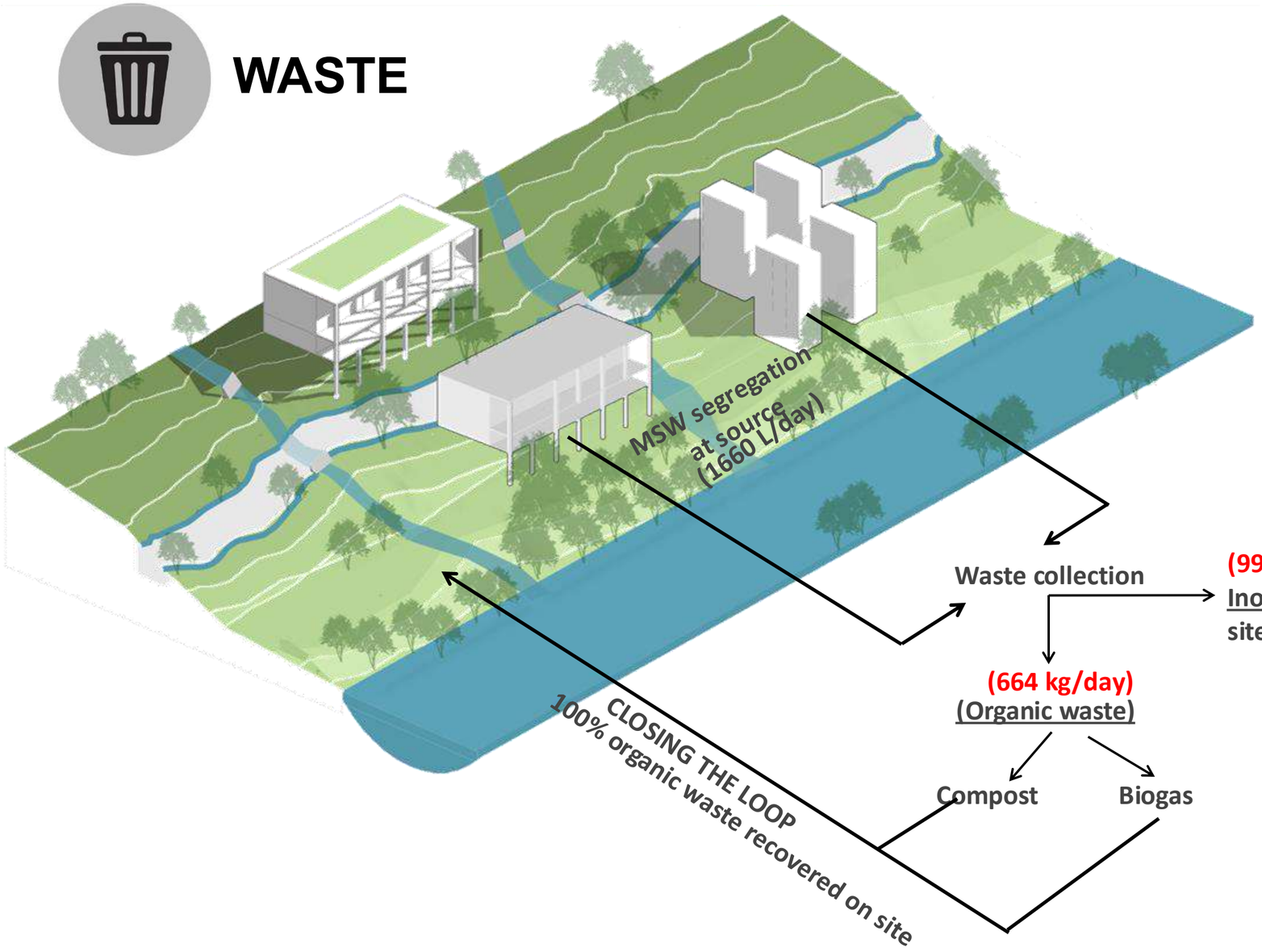
6.RETENTION

To keep water volume on place

7.STORAGE

To conserve clean water for reuse

WASTE



Sl No.	Description of Module	No. of persons	Organic waste per capita considered (in kg/day)	Inorganic waste per capita considered (in kg/day)	Total Organic Solid Waste(in kg/day)	Total Inorganic Solid Waste (in kg/day)
1	No of Teaching Faculty	300	0.08	0.12	24	36
2	No of Students	2000	0.24	0.36	480	720
3	No of Students For academic Block	400	0.08	0.12	32	48
4	Dinning/Canteen (Lunch hour)	400	0.24	0.36	96	144
5	Visitors	250	0.08	0.12	20	45
	Total	**3350**			**664**	**996**

REDUCE

- Waste generation & manhandling at source

PRODUCE

- Greywater recycling & distribution
- Stormwater detention

RECOVER

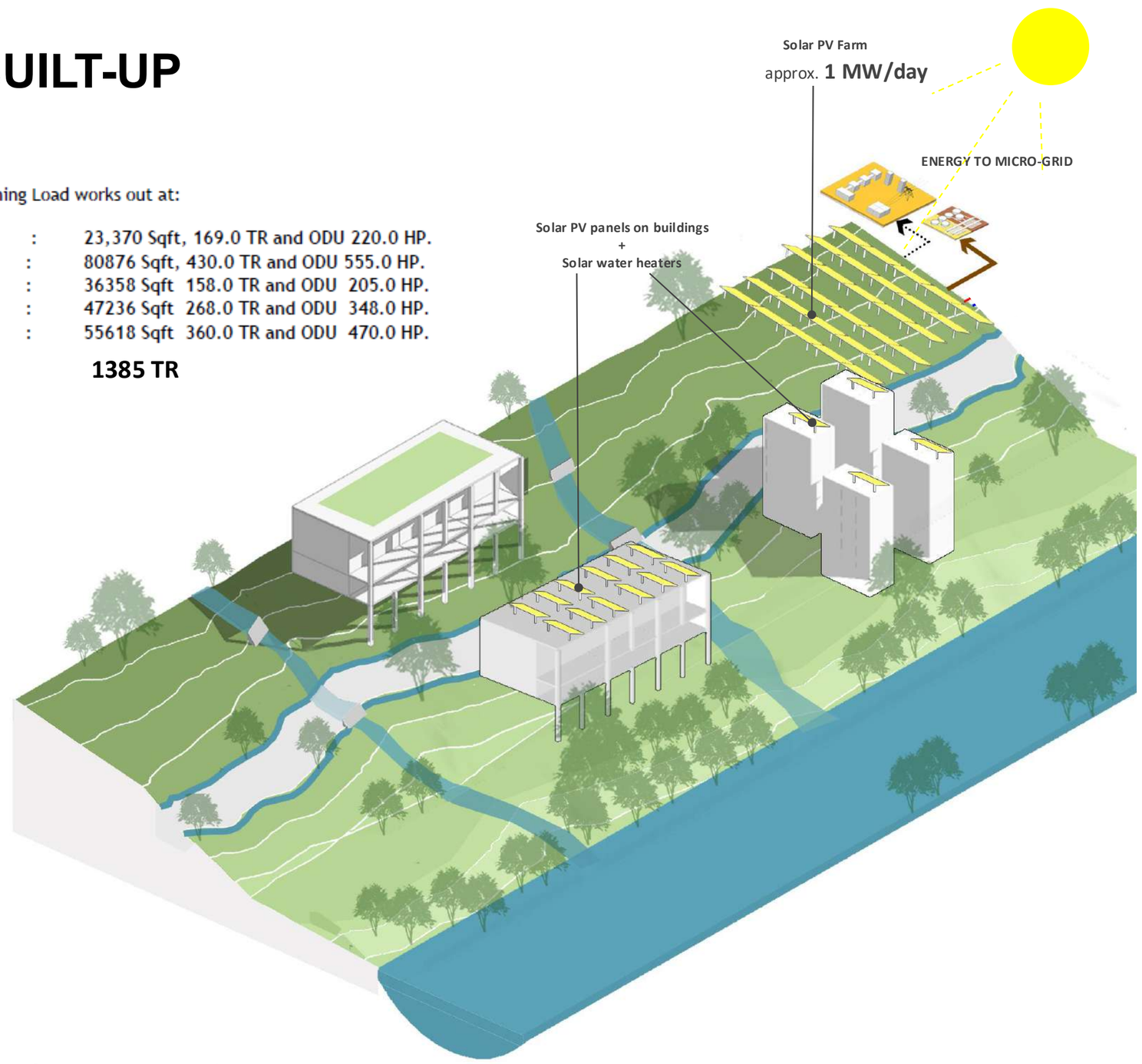
- Treatment Plants
- Rainwater reservoir
- Wetland
- Bioswales

BUILT-UP

- Total Air-Conditioning Load works out at:

AUDITORIUM	:	23,370 Sqft, 169.0 TR and ODU 220.0 HP.
MBI	:	80876 Sqft, 430.0 TR and ODU 555.0 HP.
Library	:	36358 Sqft 158.0 TR and ODU 205.0 HP.
Class room	:	47236 Sqft 268.0 TR and ODU 348.0 HP.
UG Hostel	:	55618 Sqft 360.0 TR and ODU 470.0 HP.

1385 TR



Sl No.	Building location	Phase 1 Built up area in sft	Phase2 Built up area in sft	Total area in sft	Phase 1 load in Kw		Phase 2 load in Kw		Total Load in kW
					Lighting 0.6W/sft	RP Load 0.2w/sft	Lighting 0.6W/sft	RP Load 0.2w/sft	
1	MB1 block	132748	129507	262256	80	27	78	26	210
2	MB 2 block	38155	0	38155	23	8	0	0	31
3	Class rooms	93289	74567	167856	56	19	45	15	134
4	Library & Research block	35508	0	35508	21	7	0	0	28
5	Hostel - 1(Double Occupancy)	333775	329181	662956	200	67	198	66	530
6	Mess	32684	0	32684	20	7	0	0	26
7	Sports complex	54069	0	54069	32	11	0	0	43
8	Gate Complex & Auditorium	4035	64560	68595	2	1	39	13	55
9	Amentites	36315	36315	72630	22	7	22	7	58
10	Service blocks ESS & STP	19368	19368	38736	12	4	12	4	
11	HVAC Load								1000
12	PHE Load								300
	Total	779946	653498	14,33,443.97	468	156	392	131	2416
	Total Connected Load in kW				624		523		2416

GRIHA COMPLIANCE

Green/ High Performance Design

ACTIVE SYSTEMS

Technology + Efficiency

- Energy efficient lighting
- Energy efficient air conditioning
- Energy efficient fans & ventilation systems
- High performance façade with shading and insulation
- Integrated building management system
- Desktop ventilation nozzles at
- Energy efficient plug loads (computers, copiers, lights)
- Heat recovery systems
- Photovoltaic panels

Sustainable Design

PASSIVE SYSTEMS

Technique + Technology + Efficiency

- Extensive reliance on daylighting
- Increased reliance on natural ventilation
- Rooftop and façade greening
- Light directing devices
- Ventilation enhancing devices

SECTIONS	POINTS	%ILE
1. Site Planning	12 / 13	92.3%
2. Construction Management	4 / 4	100%
3. Energy Optimization	14 / 18	77.7%%
4. Occupant Comfort	12 / 12	100%
5. Water Management	16 / 16	100%
6. Solid Waste Management	6 / 6	100%
7. Sustainable Building Management	11 / 11	100%
8. Life Cycle Costing	3 / 5	60%
9. Socio-Economic Strategies	8 / 8	100%
10. Performance Metering & Monitoring	7 / 7	100%
11. Innovation	5 / 5	100%
TOTAL	93/100	93%

The following calculations are based on the **GRIHA 2019** feasibility checklist, and as per GRIHA guidelines & benchmarks, which have been incorporated in the masterplan of IIMB.

PERCENTILE THRESHOLD	Achievable Stars as/GRIHA 2019
25-40	★
41-55	★★
56-70	★★★
71-85	★★★★
86 and more	★★★★★

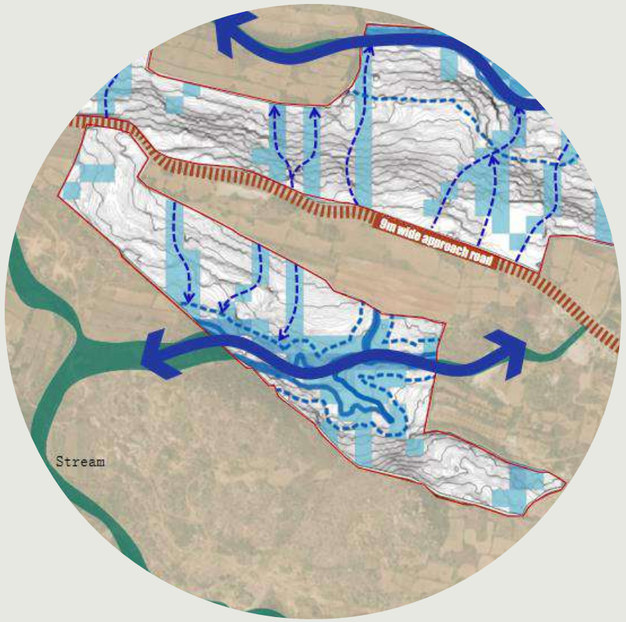
L A N D S C A P E

INTENT

To enable utilitarian exchange within identified networks through Biophilic Design.

DERIVING FROM EXISTING

Eco-sensitive zone



Natural water & green networks on site

Steep slopes on site

Green legacy of existing IIM campus

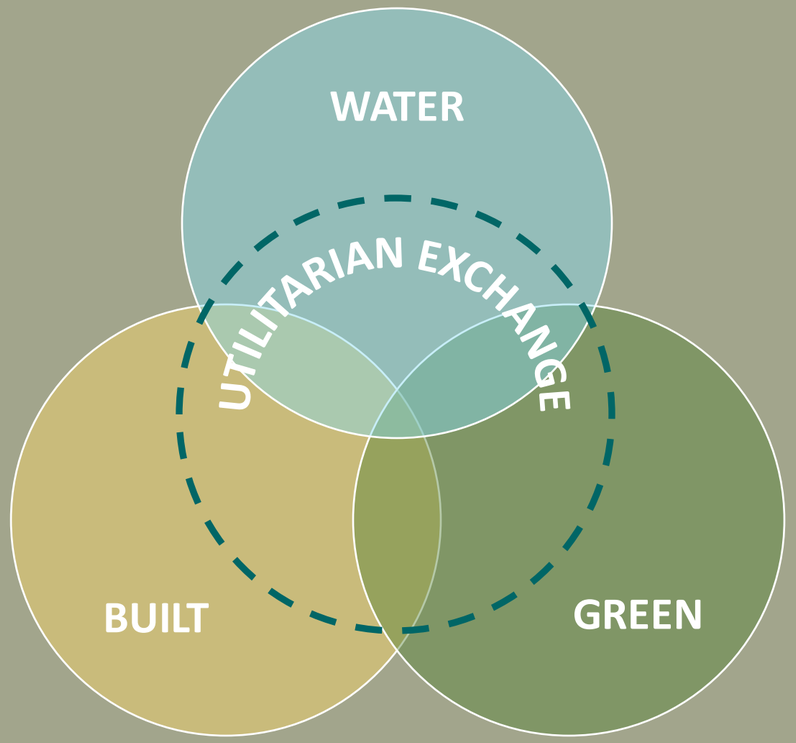
NETWORKS

GREEN

WATER

BUILT-UP

‘BIOPHILIC DESIGN’



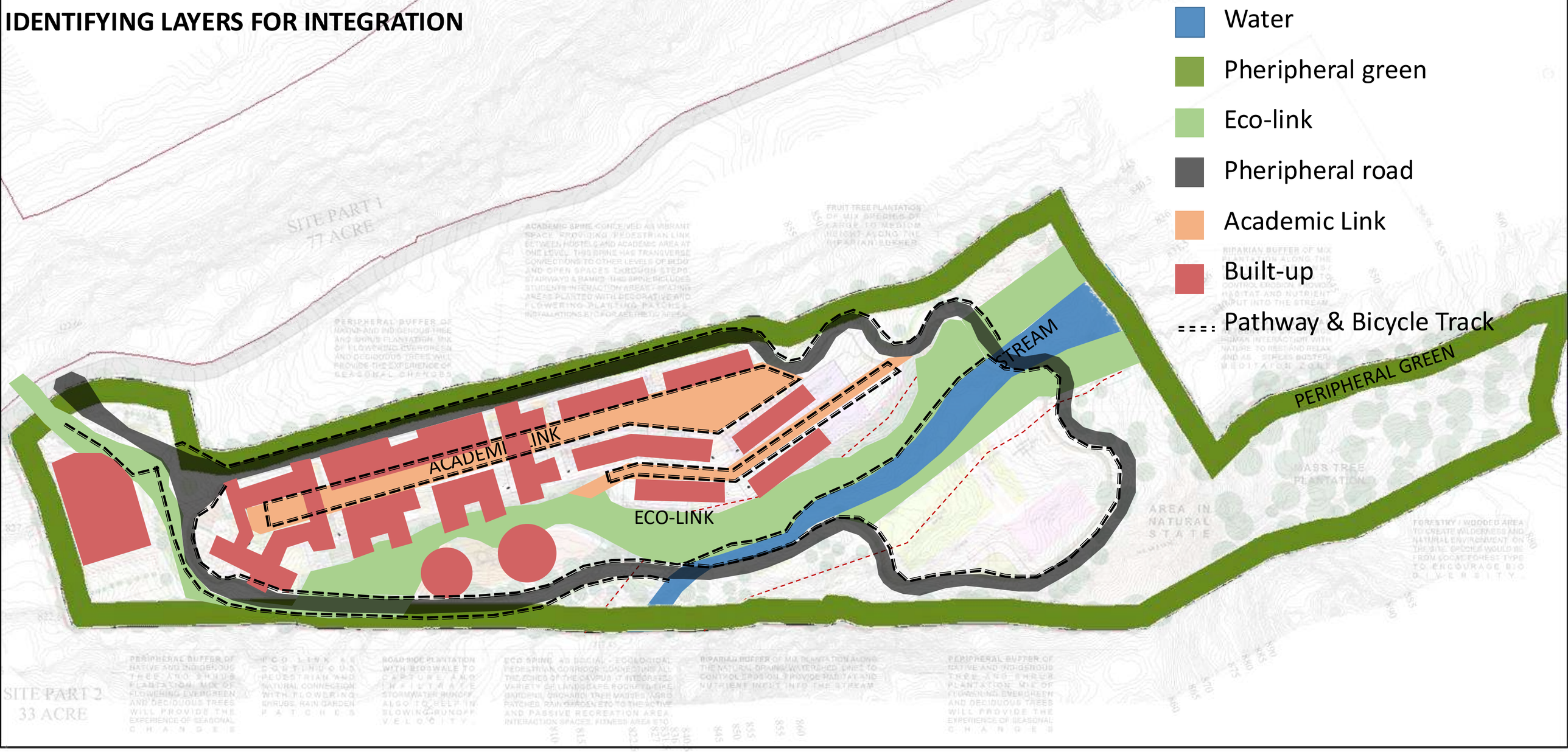
Envisioning a campus that invests in Natural Capital and thereby
offers gain in Social Capital, Symbolic Capital, Built Capital through ‘integration’ of three networks on site.

‘BIOPHILIC DESIGN’

Biophilia is a phenomena that is rooted in neuroscience and psychology that describes an inherent human need to affiliate with life and life-like processes. Biophilic Design is an approach that targets and enhances biophilic response resulting in positive experiences and feelings, for example calmness and satisfaction.

IMPLEMENTATION

IDENTIFYING LAYERS FOR INTEGRATION



STREAM EDGES WITH RIPARIAN BED, FRUIT TREE PLANTATION AND STUDENT AREAS

Riparian buffer of mix plantation along the natural drains/ watershed lines/ stream to control erosion, increase nutrient input into the stream and provide habitat to the fauna.

Fruit tree plantation of mix species of large to medium height along the riparian buffer is proposed to encourage fauna for biodiversity.

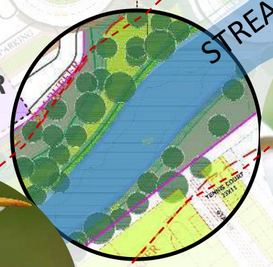
Wetland Habitat

FAUNA SPOTTED VERY FREQUENTLY (OVER 100 TIMES A YEAR)NEAR <u>WATER EDGES</u> IN ANAKEL RANGES

Grey Headed Swamphen

Wood Sandpiper

Cattle Egret



FAUNA SPOTTED VERY FREQUENTLY (OVER 200 TIMES A YEAR) IN <u>WOODY AREAS</u> IN ANAKEL RANGES

Bluethroat

Streak Throated Swallow

Red-rumped swallow

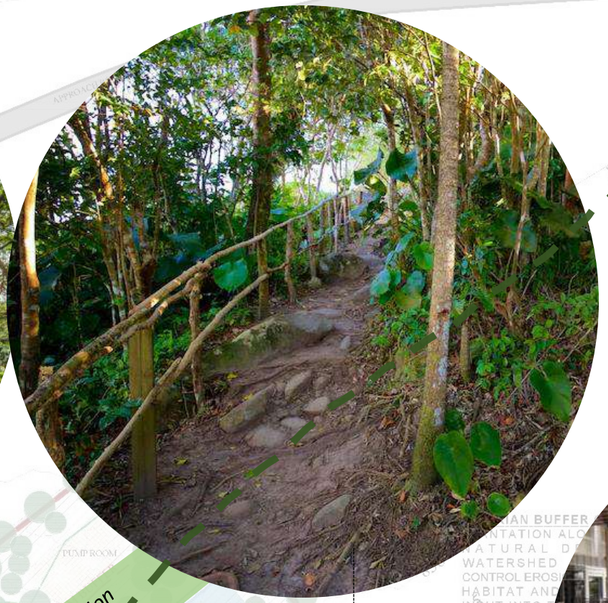
<u>STREAM & BUFFER</u>

Community gardening at campus

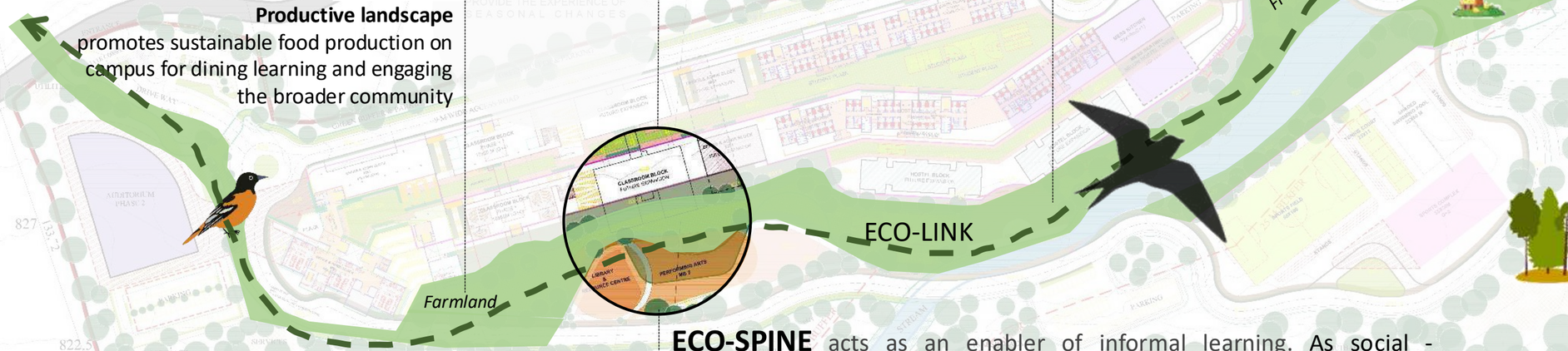
Rain garden

Passive recreational area

Nature trail



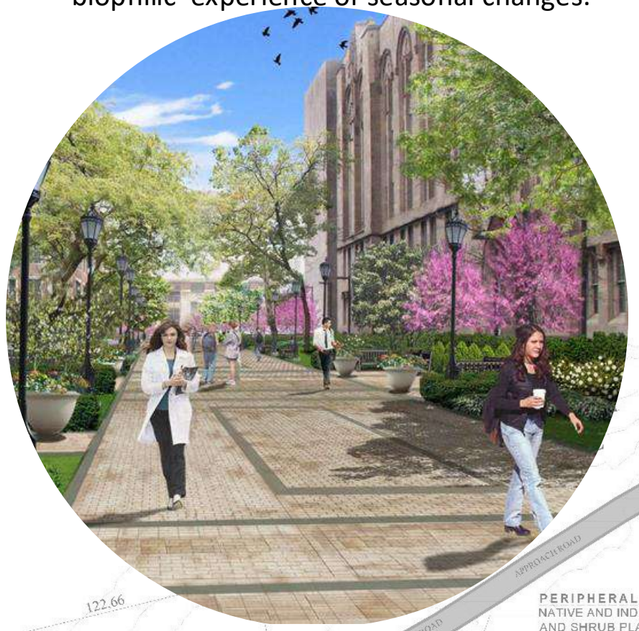
Productive landscape
promotes sustainable food production on campus for dining learning and engaging the broader community



ECO-SPINE_acts as an enabler of informal learning. As social - ecological pedestrian corridor connecting all the zones of the campus. It integrates variety of landscape pockets like gardens, orchard, tree masses, agro patches, rain garden etc with the active and passive recreation area, interaction spaces, fitness area etc . The link also acts as an extended grid for Infilteration, Buffering and drainage

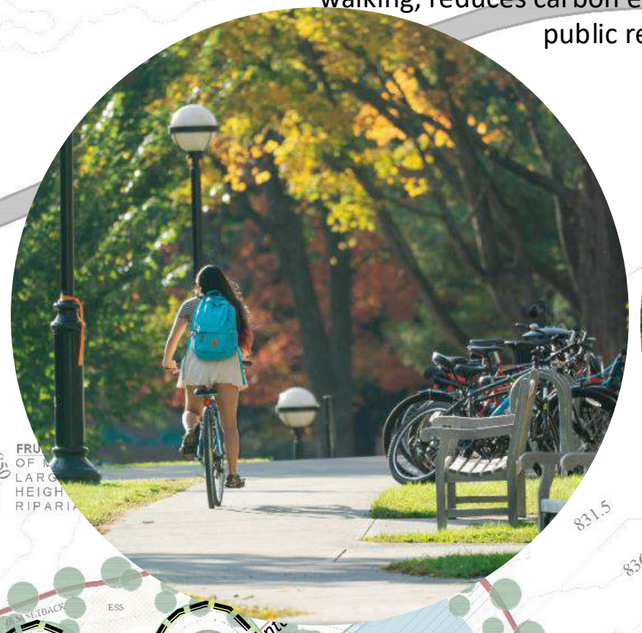
ECO-LINK

Pedestrian walks with mix of flowering evergreen and deciduous trees to provide biophilic experience of seasonal changes.

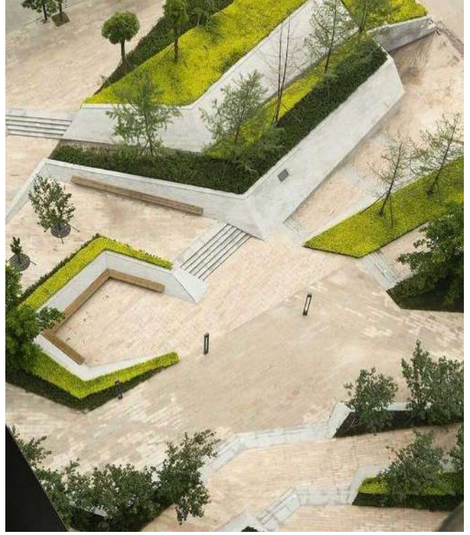


Pedestrian walks with planted pockets for sensorial links between user & nature

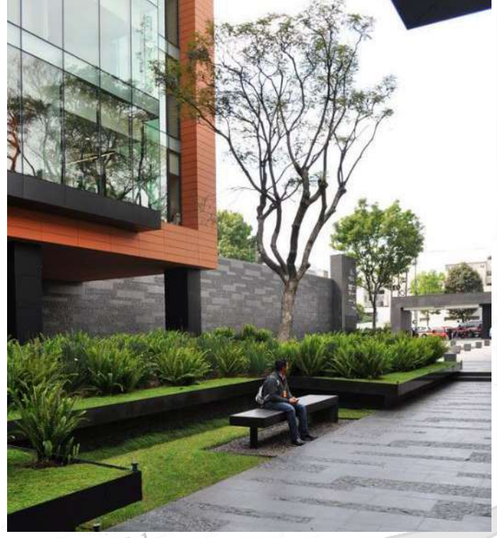
An improved streetscape that promotes biking and walking, reduces carbon emissions and activates public realm



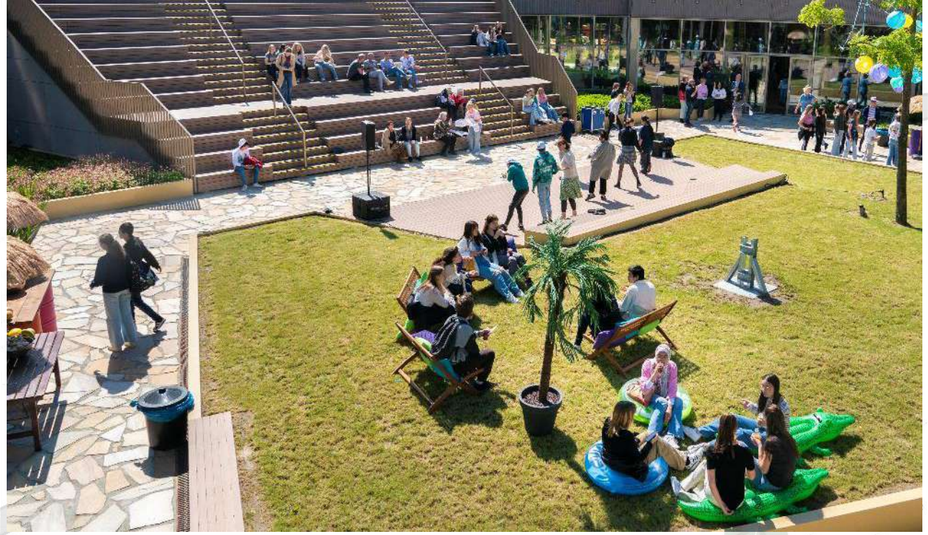
Pedestrian & Cycle track



Steps integrated with seating areas



Seating pockets with plant beds

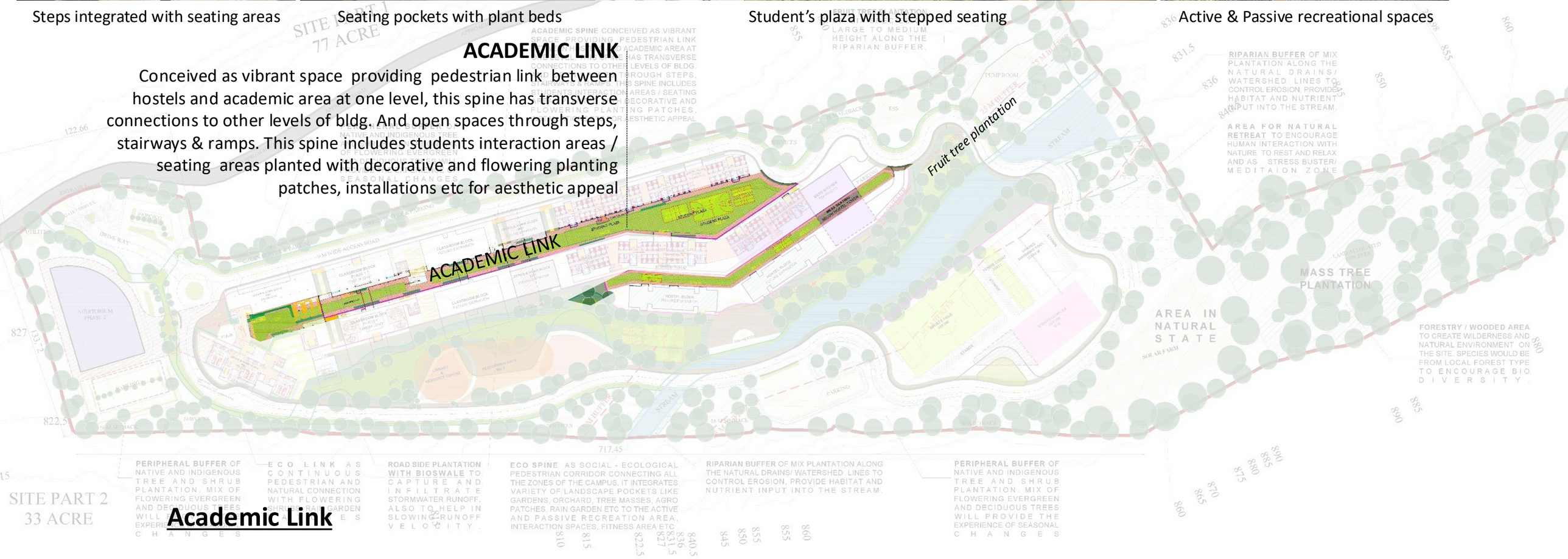


Student's plaza with stepped seating

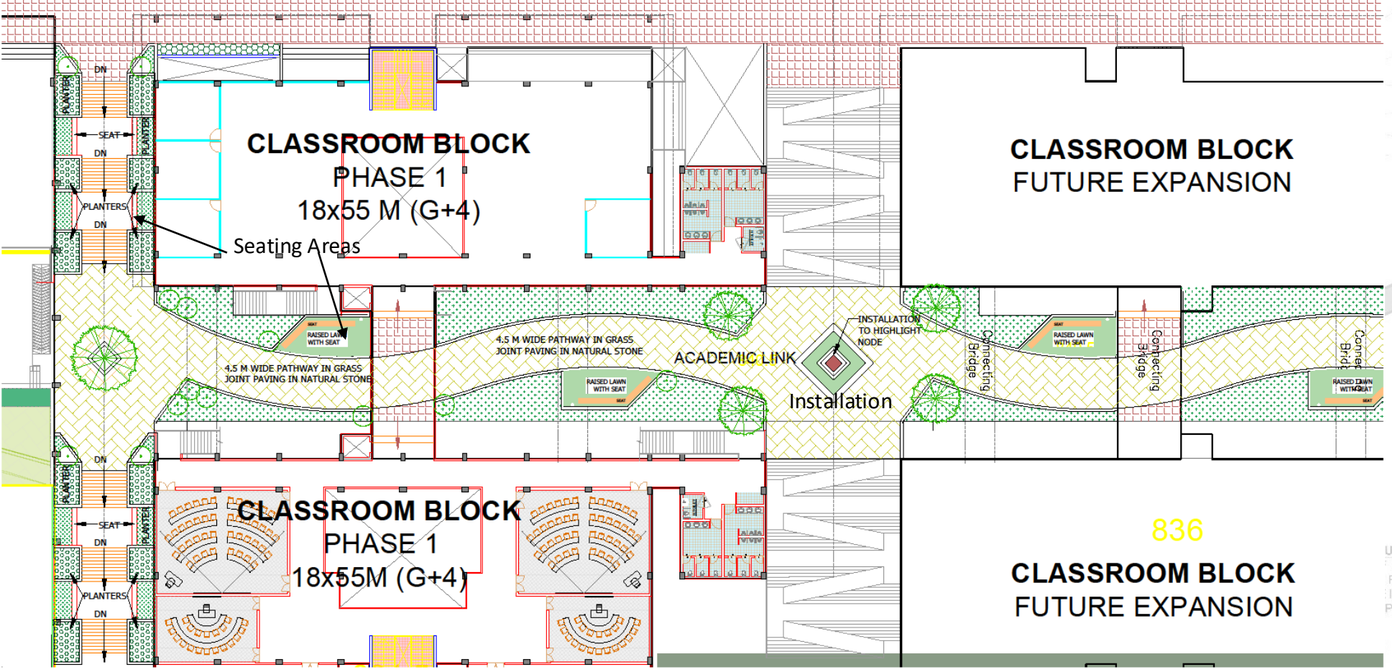
Active & Passive recreational spaces

ACADEMIC LINK

Conceived as vibrant space providing pedestrian link between hostels and academic area at one level, this spine has transverse connections to other levels of bldg. And open spaces through steps, stairways & ramps. This spine includes students interaction areas / seating areas planted with decorative and flowering planting patches, installations etc for aesthetic appeal



Academic Link



ACADEMIC LINK LANDSCAPE

STRATEGY

Curvilinear path to break the monotony of linear format of space and to create interest while moving on the pathway.

Cross connections to different levels through steps interwoven with seats.

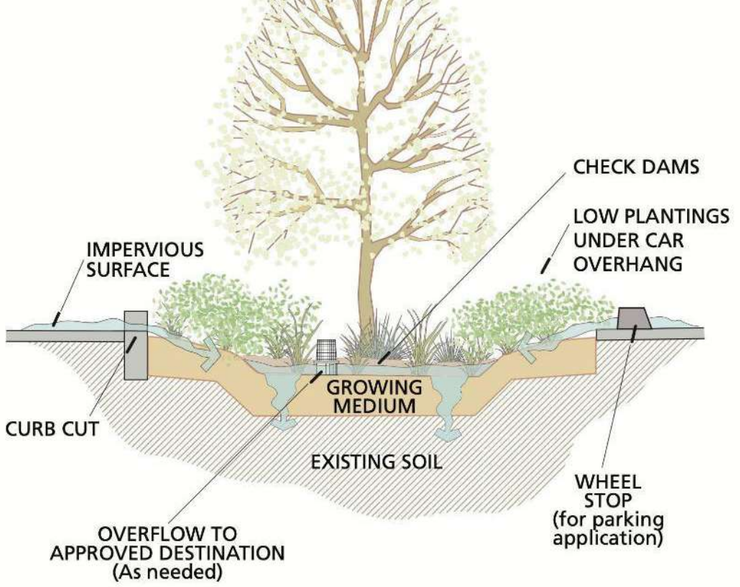
Installation/ Tree/ Solar tree to highlight nodes.

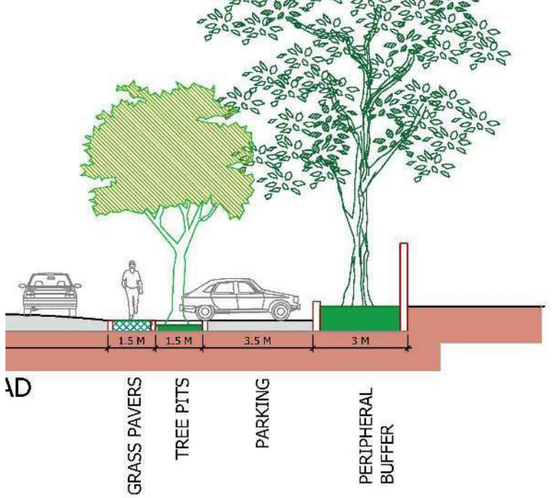
Academic Link

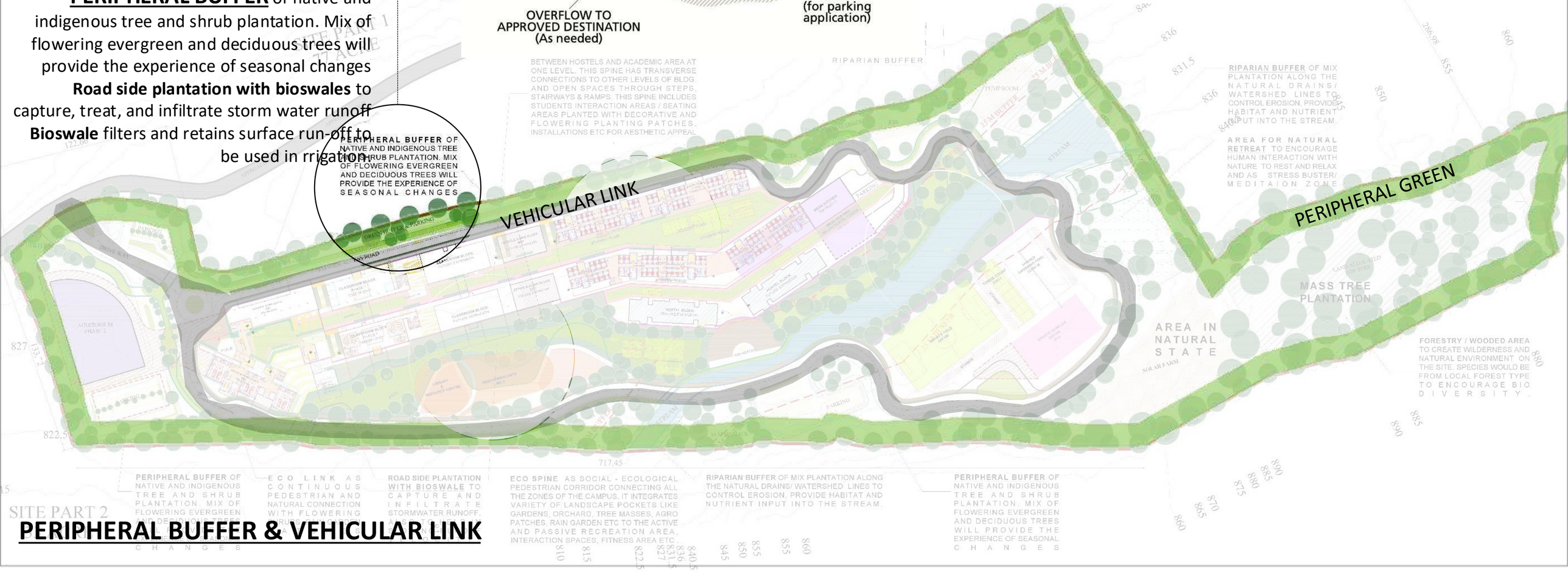
PERIPHERAL BUFFER of native and indigenous tree and shrub plantation. Mix of flowering evergreen and deciduous trees will provide the experience of seasonal changes

Road side plantation with bioswales to capture, treat, and infiltrate storm water runoff

Bioswale filters and retains surface run-off to be used in rrigation

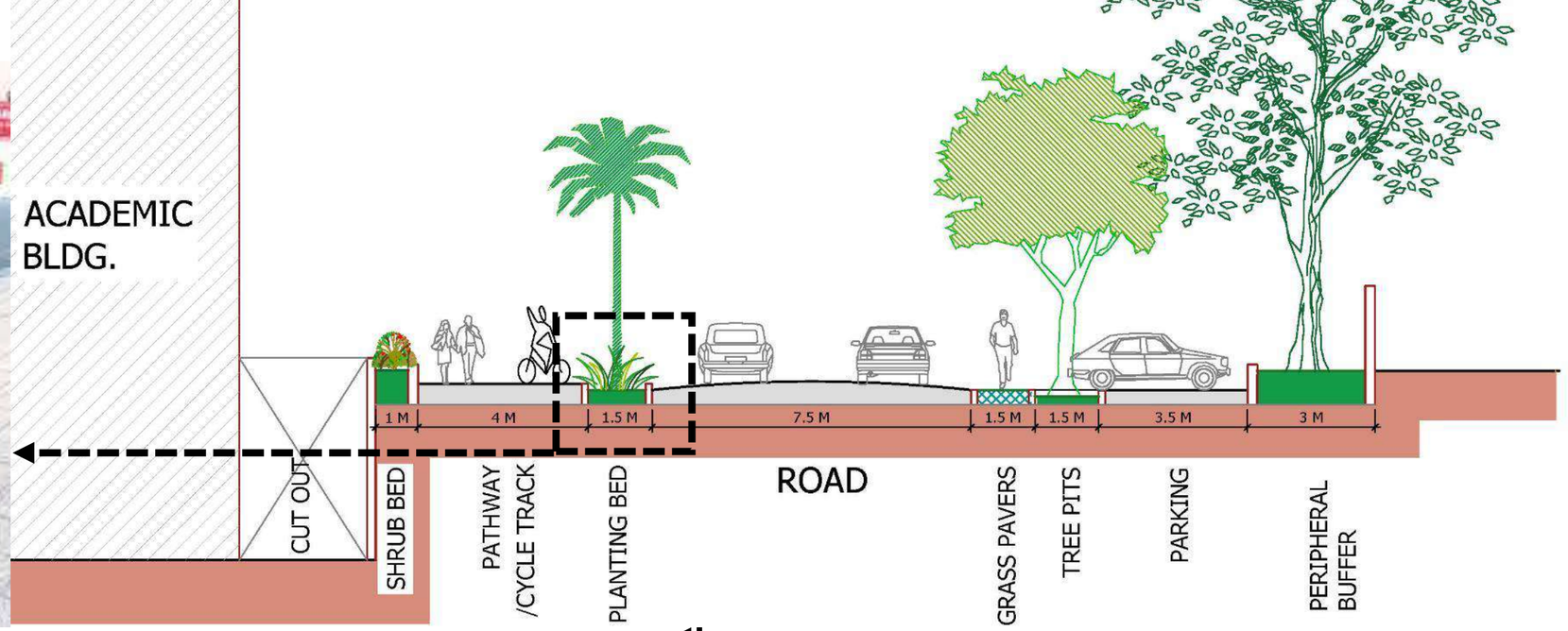






PERIPHERAL BUFFER & VEHICULAR LINK

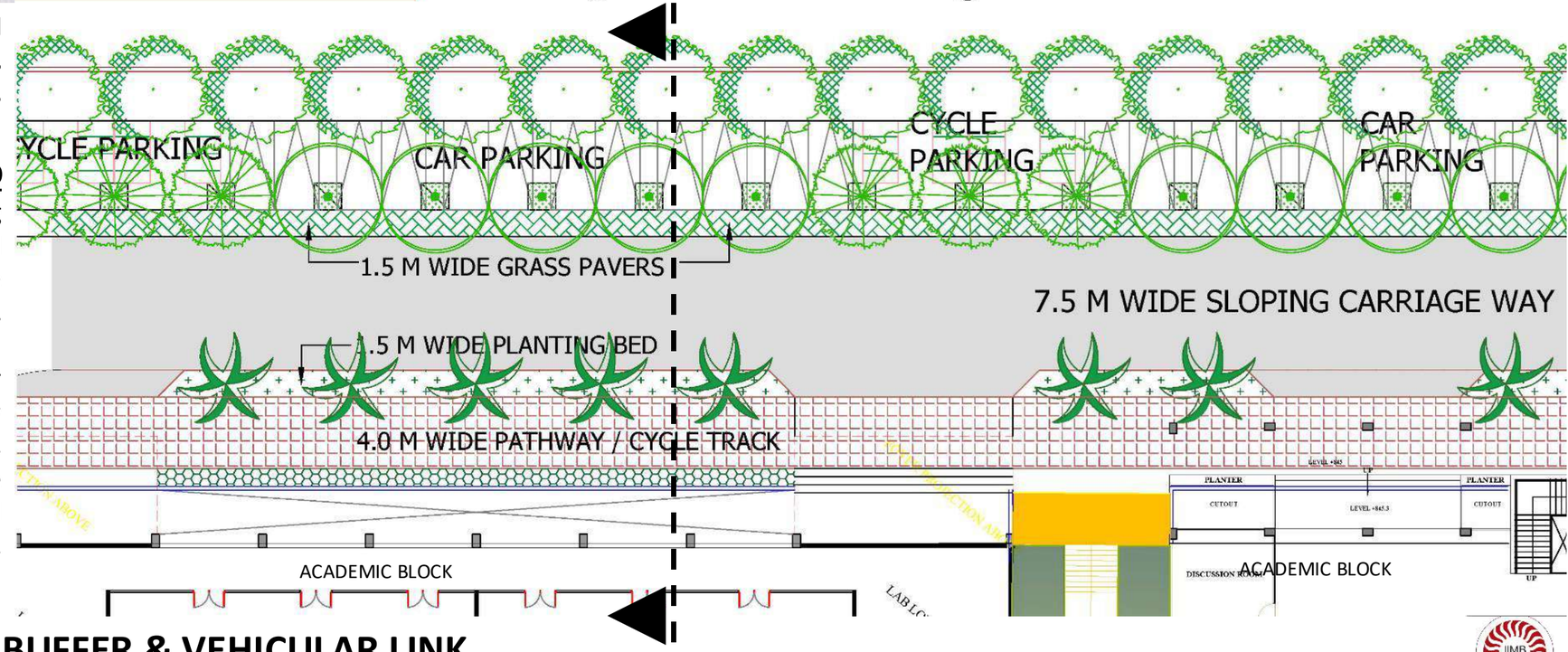
Tree boxes as tree guards, to control stormwater run-off.
These are connected to rain gardens.



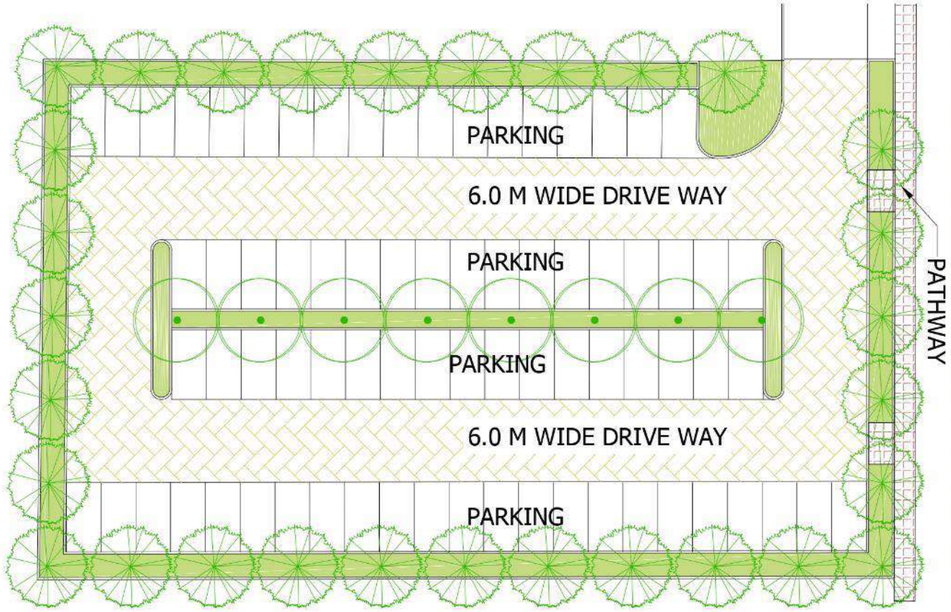
ROAD

is proposed to have 7.5 m wide carriage way, abutting eco-link and parking towards boundary wall side and 4.0 m wide shared pathway and cycle track towards the building side.

Raised planter cum seating wall is proposed as buffer between cut-out and pathway & 1.5 m wide low planting bed as buffer between road and pathway. Street Lighting for the road and pathway would be provided in the low planting bed. Parking lights would be part of peripheral buffer.



TYPICAL PLAN AND SECTION _ PERIPHERAL BUFFER & VEHICULAR LINK



PARKINGS are provided along the road and nodal parking at various locations.

All the parkings are proposed to have pervious surface like grass pavers to maximise rain water percolations.

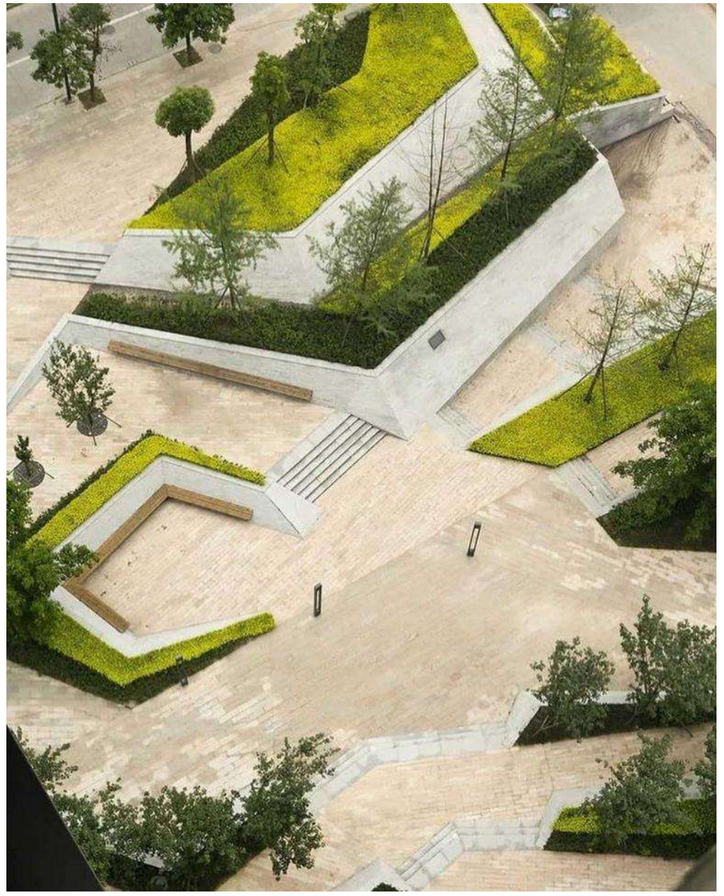
Parking areas to be shaded and camouflaged by evergreen trees.

ENTRY NODE being the focal point at the entry of the buildings, it is proposed to have a sculpture or Installation along with manicured landscape of plant compositions.

ENTRANCE GATE COMPLEX comprises of planting island to segregate entry and exit, and Gateway building to house security & servillience.

REFERENCES

Close integration of Green and Blue networks along **STREAM/ WATERSHEDS** to promote resiliency as well as to strengthen the existing ecosystem on site.



Integration of public space and green along **ACADEMIC LINK**

Cross connections to different levels through steps interwoven with seats along **ACADEMIC LINK**

THANKYOU

IIM Bangalore UG Campus

18/06/2025

Presented By DDF Consultants