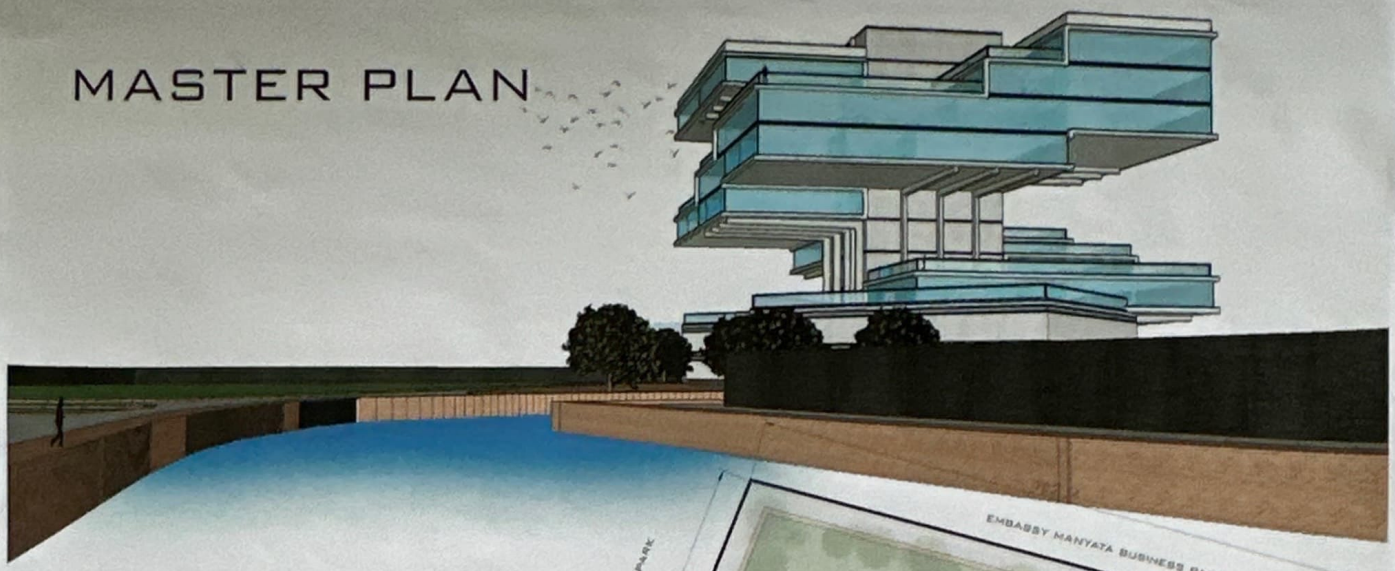
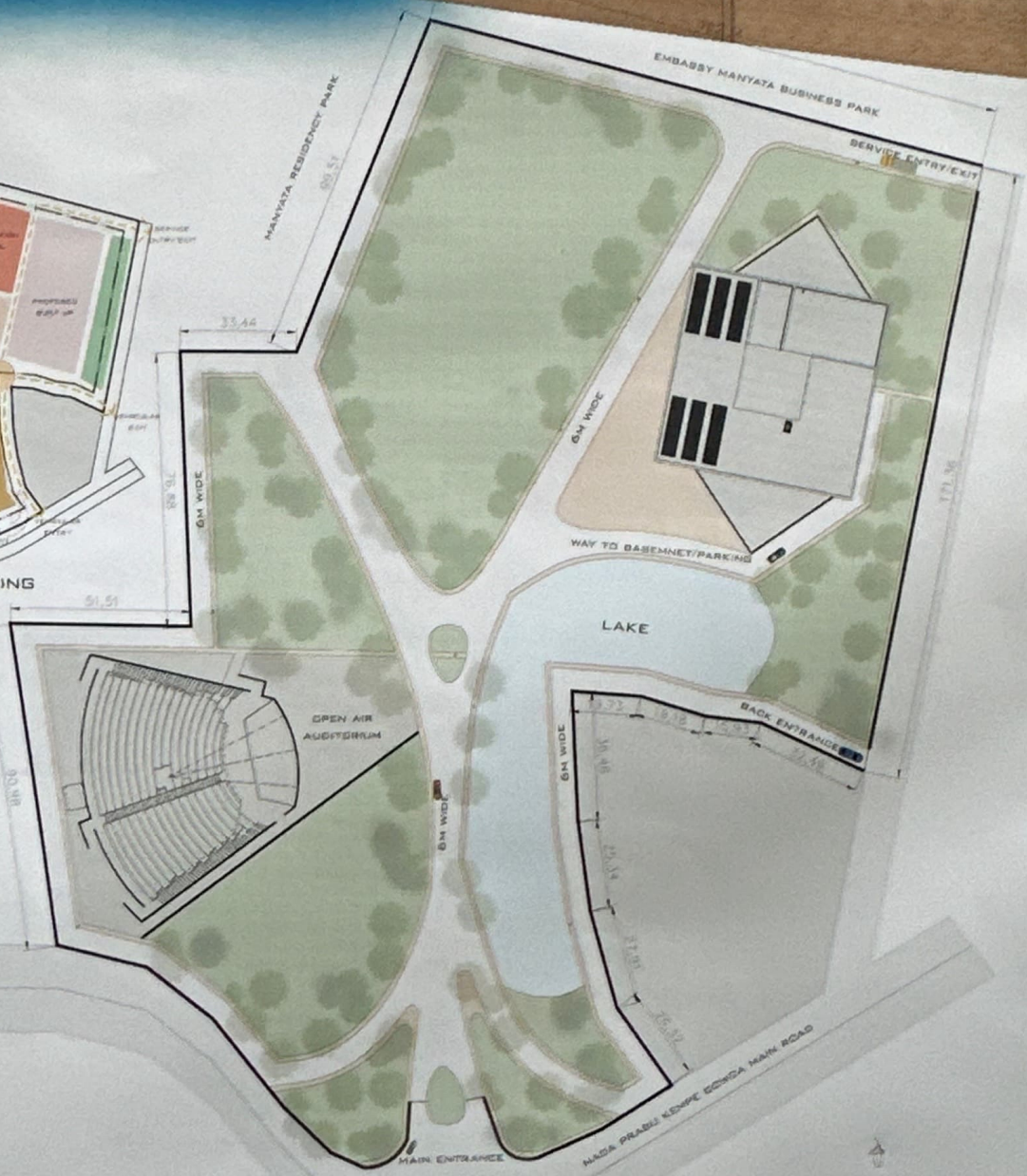
MASTER PLAN

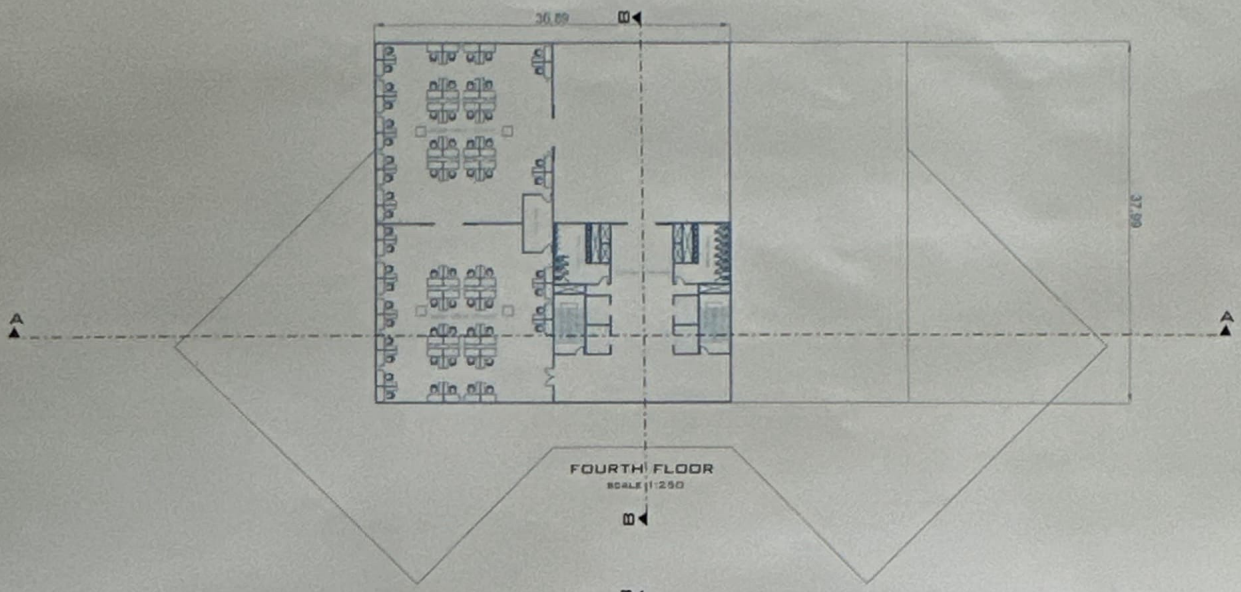




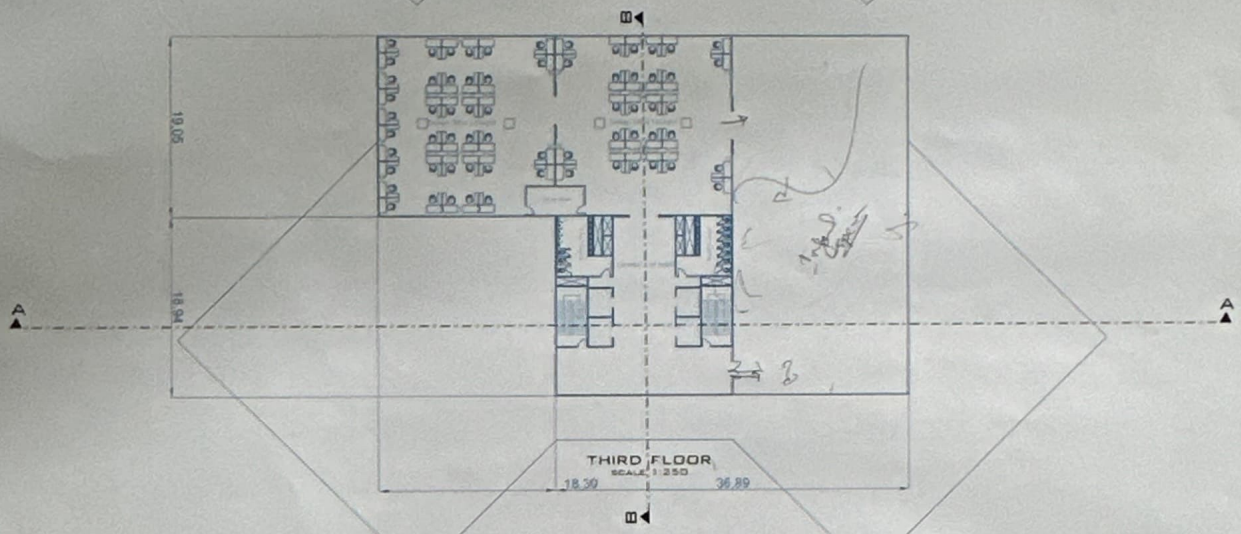
MASTER PLAN
SCALE 1:500

SITE ELEVATION
SCALE 1:500

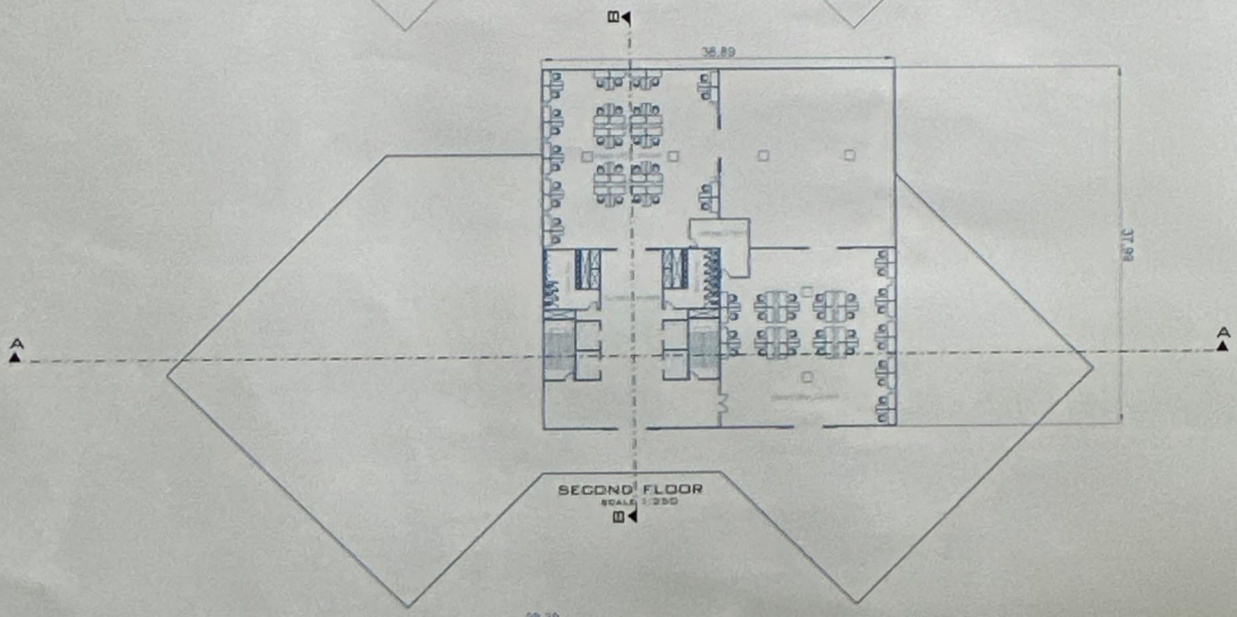
NAVEEN YADAV S M
V SEM



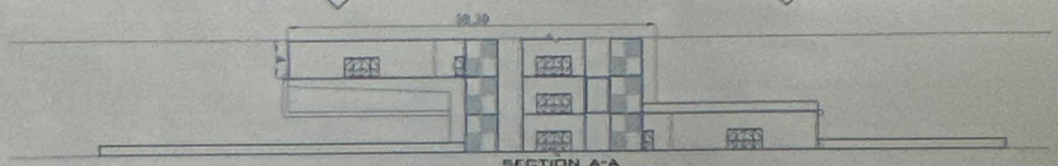
FOURTH FLOOR
SCALE 1:250



THIRD FLOOR
SCALE 1:250



SECOND FLOOR
SCALE 1:250



SECTION A-A
SCALE 1:250

PLANS AND SECTION

NAVEEN YADAV S M
V SEM
1AA22AT010

AREA PROGRAM

Block A (Admin)				18408
Ground Floor				1572
S. No	Spaces	Quantity	Area	Total Area
1	Reception and Lobby	1	15	15
2	waiting	1	65	65
3	director's room	1	11	11
4	security room	1	50	50
5	cafeteria	1	500	500
6	indoor recreation	1	275	275
7	toilet	1	15	15
8	staffroom	1	175	175
9	staircase	1	24	24
10	storage	1	180	180
	Total			1310
	Circulation			262

First Floor				1610
S. No.	Spaces	Quantity	Area	Total Area
1	events halls	2	600	1200
2	boardroom	1	120	120
3	library	1	1500	1500
4	toilet	1	15	15
5	storage	1	180	180
	Total			3015
	Circulation			603

Second Floor				2934
S. No.	Spaces (transport and logistics)	Quantity	Area	Total Area
1	dining room	3	350	1050
2	event halls	2	600	1200
3	toilet	1	15	15
4	storage	1	180	180
	Total			2445
	Circulation			489

Third Floor				1074
S. No.	Spaces (IT)	Quantity	Area	Total Area
1	desing office	2	350	700
2	wc	1	15	15
3	storage	1	180	180
	Total			895
	Circulation			179

Fourth Floor				1074
S. No.	Spaces (IT)	Quantity	Area	Total Area
1	Desing office	2	350	700
2	wc	1	15	15
3	storage	1	180	180
	Total			895
	Circulation			179

Fifth Floor				684
S. No.	Spaces (art and culture)	Quantity	Area	Total Area
1	practice hall	1	125	125
2	music recording studio	1	250	250
3	wc	1	15	15
4	storage	1	180	180
	Total			570
	Circulation			114

Sixth Floor				1434
S. No.	Spaces (art and culture)	Quantity	Area	Total Area
1	desing office	2	350	700
2	research and development	3	100	300
3	storage	1	180	180
4	wc	1	15	15
	Total			1195
	Circulation			239

Seventh Floor				1914
S. No.	Spaces (waste water management)	Quantity	Area	Total Area
1	Desing office	2	350	700
2	Research and development	2	100	200
3	wc	1	15	15
4	manufracture	1	500	500
5	storage	1	180	180
	Total			1595
	Circulation			319

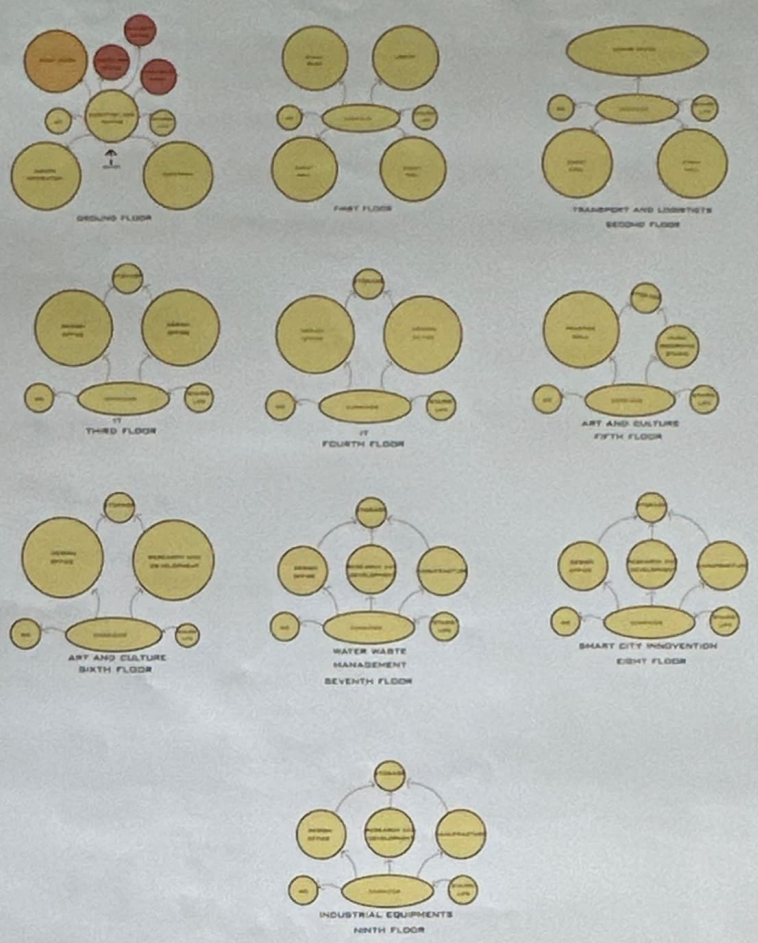
Eighth Floor				1614
S. No.	Spaces (smart city innovations)	Quantity	Area	Total Area
1	desing office	2	265	530
2	research and development	2	60	120
3	manufracture	1	500	500
4	wc	1	15	15
5	storage	1	180	180
	Total			1345
	Circulation			269

Ninth Floor				2490
S. No.	Spaces (Industrial Equipmets)	Quantity	Area	Total Area
1	Desing Office	2	350	700
2	Research and development	3	60	180
3	manufracture	1	1000	1000
4	wc	1	15	15
5	storage	1	180	180
	Total			2075
	Circulation			415

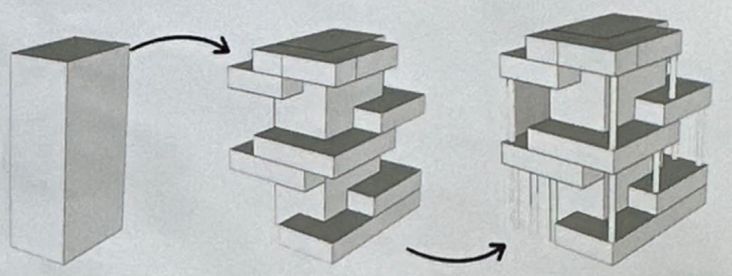
1	Total Ground Coverage	1572
2	Total Built Up	18408

Toilet						
Common Toilet	male	L	B	no of units	total area p	total area
	SWC	1.5	0.85	5	1.275	6.375
	WU	1	0.5	3	0.5	1.5
	WB	0.5	0.4	3	0.2	0.6
					total accom	8.475
					50% circula	4.2375
					total with C	12.7125
					x10	127.125
	female					
	SWC	1.5	0.85	5	1.275	6.375
	SB	0.5	0.4	5	0.2	1
					total accom	7.375
					50% circula	3.6875
					total with c	11.0625
					x10	110.625

CIRCULATION DIAGRAM



CONCEPT



FORM GENERATION

EXPOSED MATERIAL

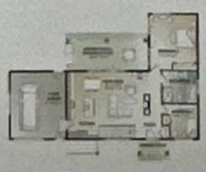
GEOMETRIC SHAPES

MINIMALIST DESING

BRUTALISM

MODERN MATERIALS GLASS, STEEL AND CONCRETE

CLEAN LINES

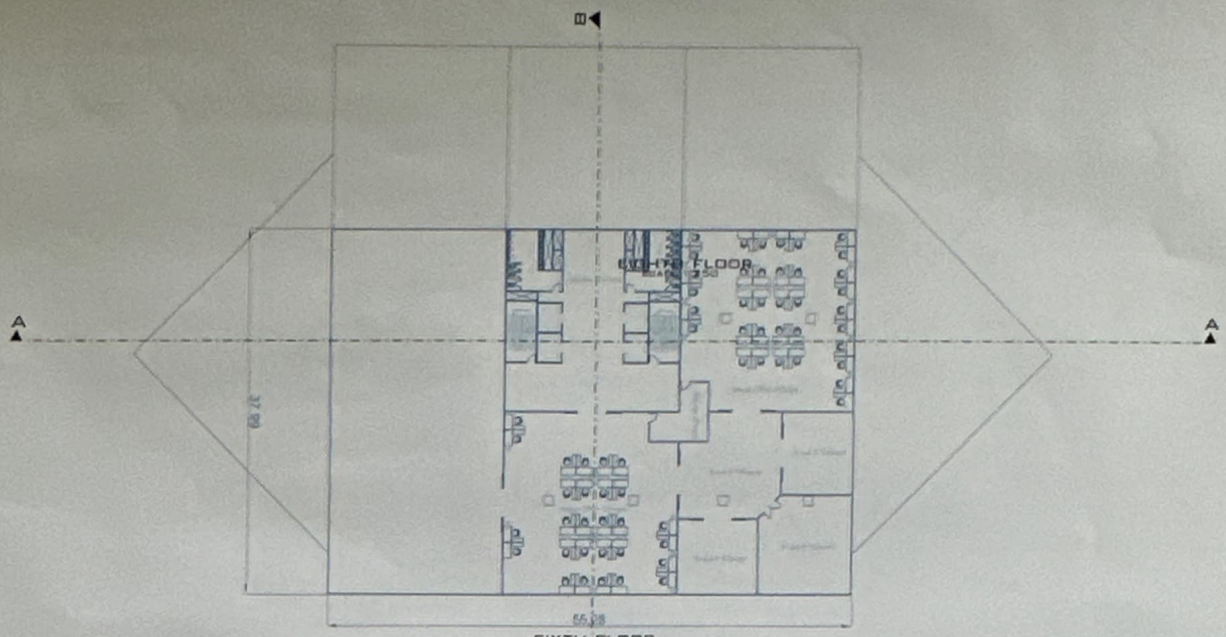


OPEN FLOOR PLANS

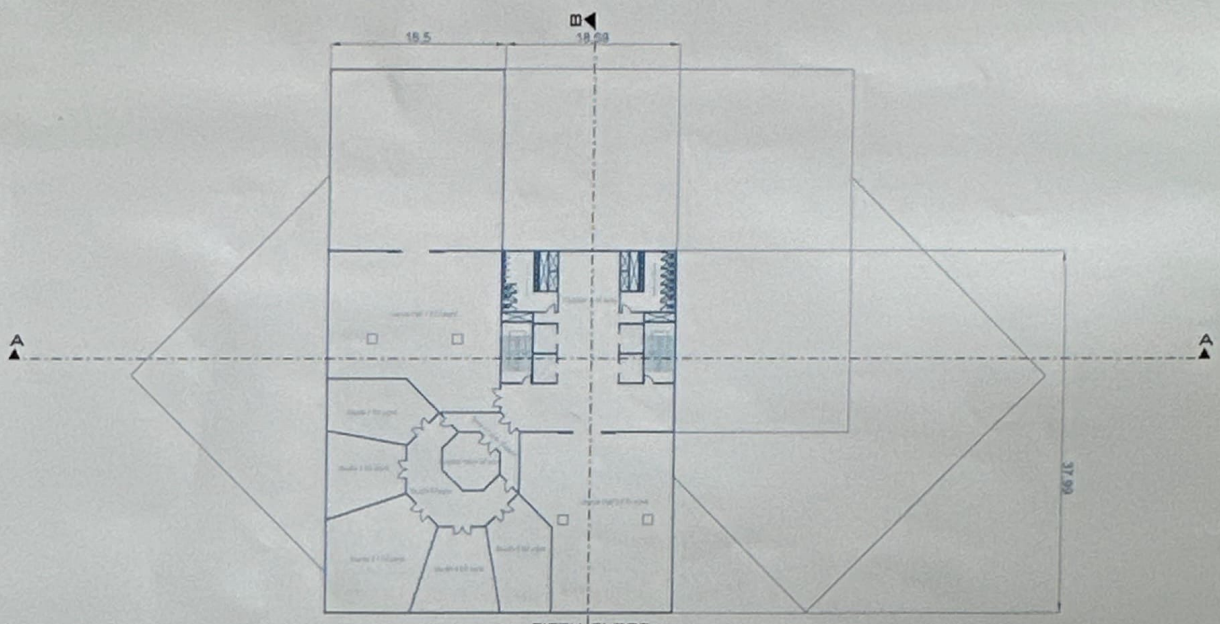
MODERNISM

AREA PROGRAM AND CONCEPT

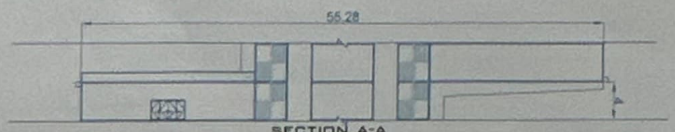
NAVEEN YADAV S M
V SEM
1AA22AT010



SIXTH FLOOR
SCALE 1:250



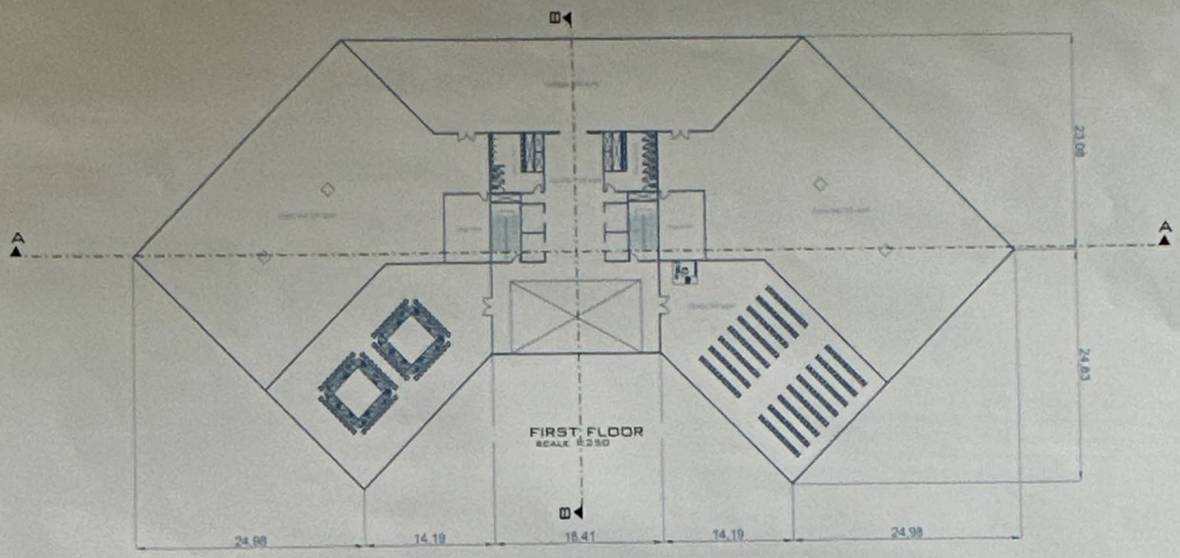
FIFTH FLOOR
SCALE 1:250

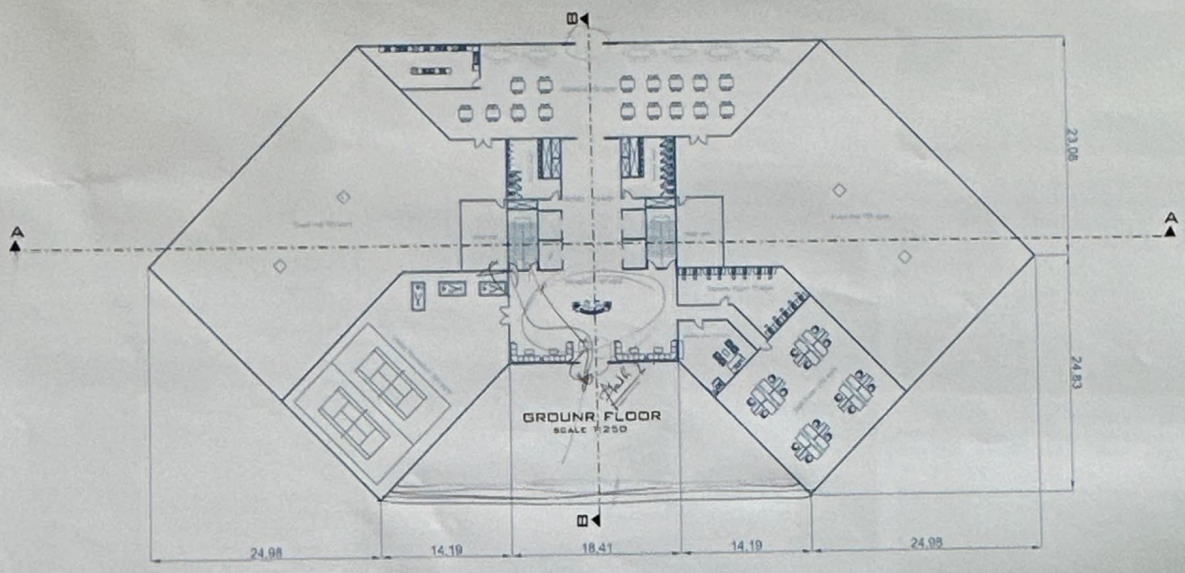


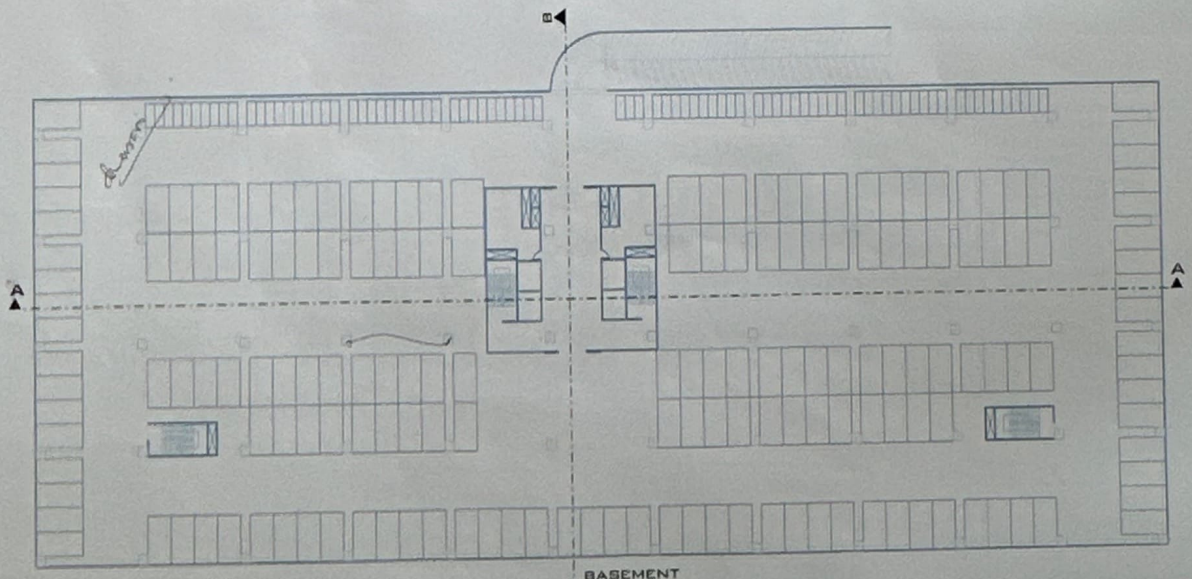
SECTION A-A
SCALE 1:250

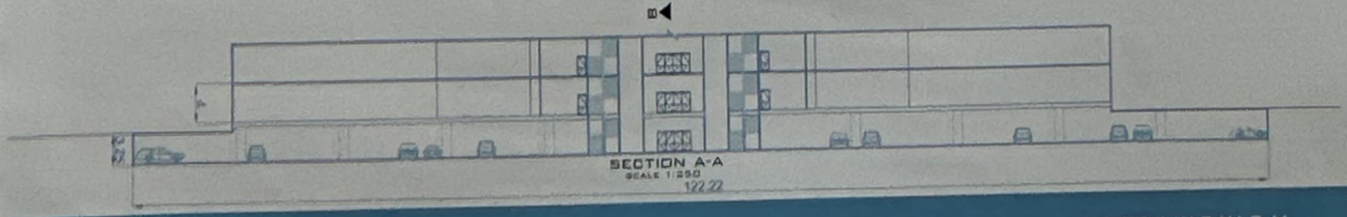
PLANS AND SECTION

NAVEEN YADAV S M
V SEM
1AA22AT010







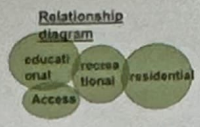


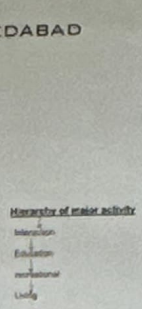
PLANS AND SECTION

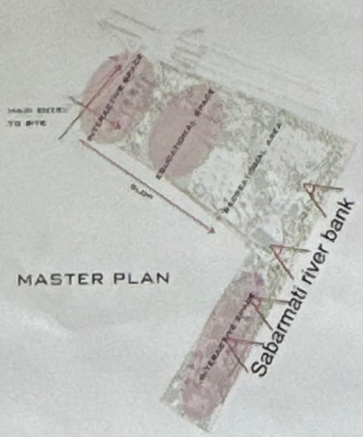
NAVEEN YADAV S M
V SEM
1AA22AT010

NATIONAL INSTITUTION OF DESING, AHMEDABAD

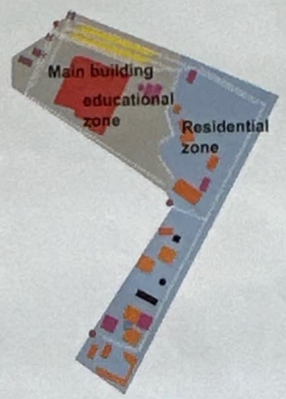
LOCATION: PALADI, AHEMDABAD, GUJARAT
ARCHITECT: SARABHAI AND GIRA
SITE AREA: 63,848 SQ/M
CLIENT: MINISTRY OF INDUSTRY GOVERNMENT OF INDIA
BUILT: 1961
STRUCTURE: RCC FRAME STRUCTURE







MASTER PLAN



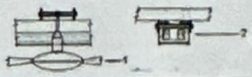
THE MASTER PLAN OF THE CAMPUS IS DIVIDED INTO THREE PARTS.

1. THE INSTITUTE COMPLEX.
2. RESIDENTIAL BLOCK
3. PUBLIC AREAS

- MAIN BUILDING
- RESIDENTIAL ZONE
- EDUCATIONAL ZONE
- SERVICES
- RECREATION
- HOSTEL
- STAFF QUARTERS
- SECURITY/OFFICES
- PARKING
- ENTRY 3NOS

SERVICES

ELECTRIC LIGHT FIXTURES ARE AN INTEGRAL PART OF THE LIGHT-WEIGHT OVERHEAD GRID SUSPENDED FROM THE ROOF BEAMS. THE FIXTURES HAVE BEEN SO DESIGNED THAT ADDITIONAL TUBE LIGHTS CAN BE FITTED IF GREATER ILLUMINATION IS REQUIRED



• A CHANNEL, 5 CM. WIDE, IS MAINTAINED BETWEEN THESE SQUARES. UNDER-FLOOR ELECTRIC WIRING IS LAID IN THESE CHANNELS AND FILLED WITH MASS CONCRETE.

FACADE
- SOUTH - WEST FACADES NOT ENGAGING
- THE STUDIOS AT THE SOUTH-WEST FACADE

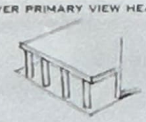
DOMS
- OVER DOUBLE HEIGHTS
- INCREASES SPAN ONLY
- DOMS HAS VOIDS

BANDS
- ACCENTUATION OF THE HORIZONTAL STRUCTURE

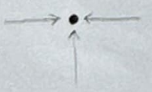
• DUCTS FOR HOUSING VARIOUS SERVICES LIKE WATER PIPES, ELECTRIC CABLES, VENTILATION AND AIR-CONDITIONING ARE AN INTEGRAL PART OF THE DESIGN OF THE BUILDING.

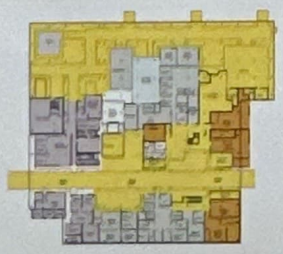
DESIGN STREET
- PRIMARY CORRIDOR / LIFELINE
- ONLY FIRST HALF IS EXCITING
- NO FOCUS POINT AT THE END

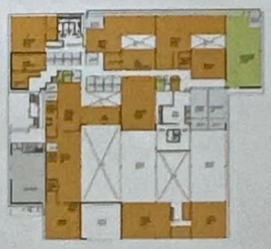
COLUMS
- INNER CORRIDOR / SEMI OPEN
- STEP BACK OF BUILT SPACE OVER PRIMARY VIEW HEAVY

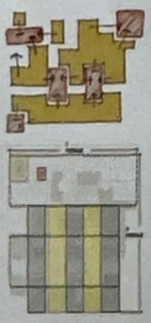


NODES & COURTYARDS
- MEETING POINTS WITH THE COURTYARDS
- GENERATES PRECIOUS OPEN SPACES







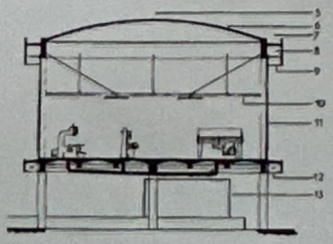


THE ARCHITECT'S MAIN EMPHASIS HAS BEEN ON STRUCTURAL CARITY LEADING TO FUNCTIONAL PERFECTION IN THE LARGELY COMPLEX SPACES LIKE STUDIOS AND WORKSHOPS.

GRID PLANNING
THE PLAN OF NID SIGNIFIES VARIED SPATIAL EXPERENCES WITH DIFERENT SPATIAL TREES

LEGEND

FOUNTAIN MERGED WITH LANDSCAPE — LONG OPEN PROMENADE ON STILTS — FOUNTAIN COOLS AIR — SHADE BY TREES IN COURTYARD



5. SPRINKLER FOR COOLING ROOF SHELL
6. 1230 CT.
x 1230 CM. BRICK SHELL
7. RAIN WATER DRAIN
8. RETURN AIR DUCT
9. AIR CONDITION OR HUMIDIFICATION DUCT
10. SUSPENDEDSTRUCTURE FOR LIGHTS AND FANS
11. STEEL CLADDING
12. ELECTRICAL CABLE, DRAINAGE AND WATER SUPPLY DUCT
13. WOOD SEASONING PLANT

LIVE CASE STUDY

NAVEEN YADAV S M
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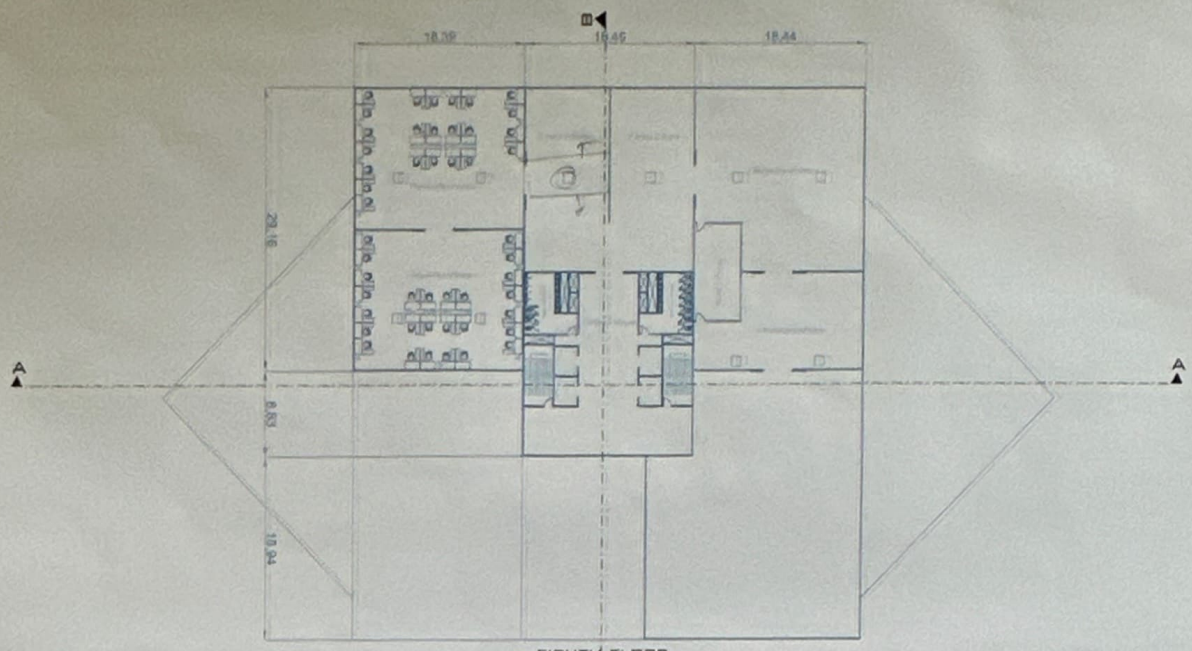
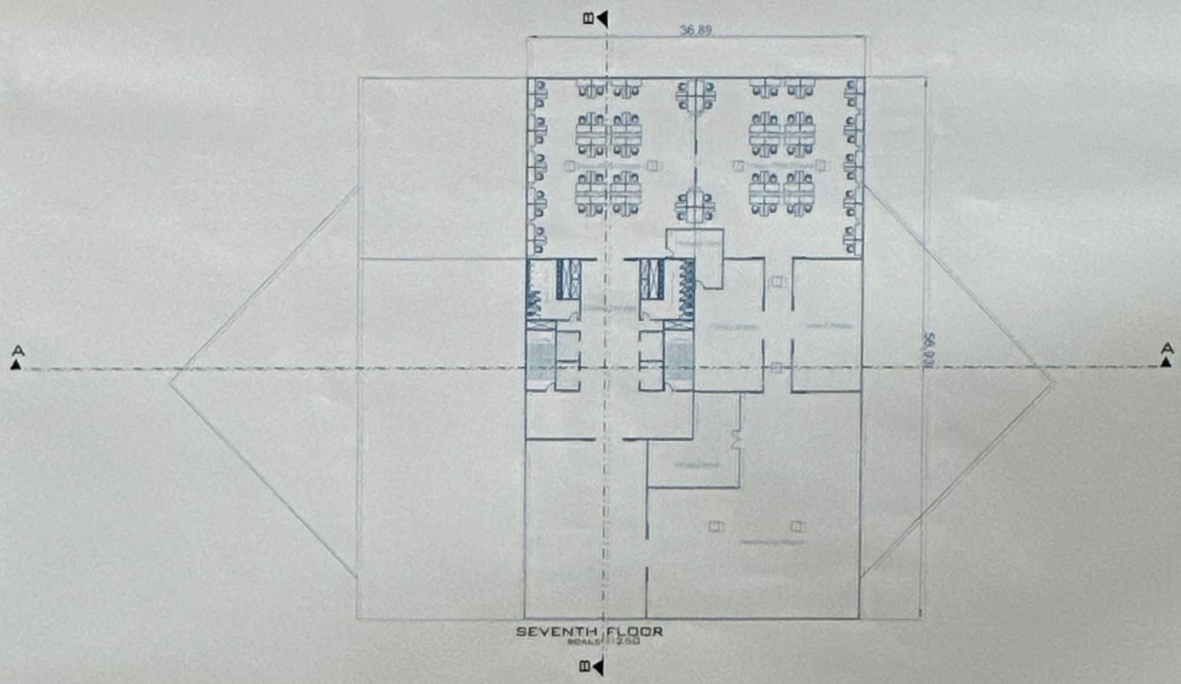
ACHARYA'S NRV SCHOOL OF ARCHITECTURE

EXTERNAL EXAMINER | INTERNAL EXAMINER



EIGHTH FLOOR
SCALE 1:250

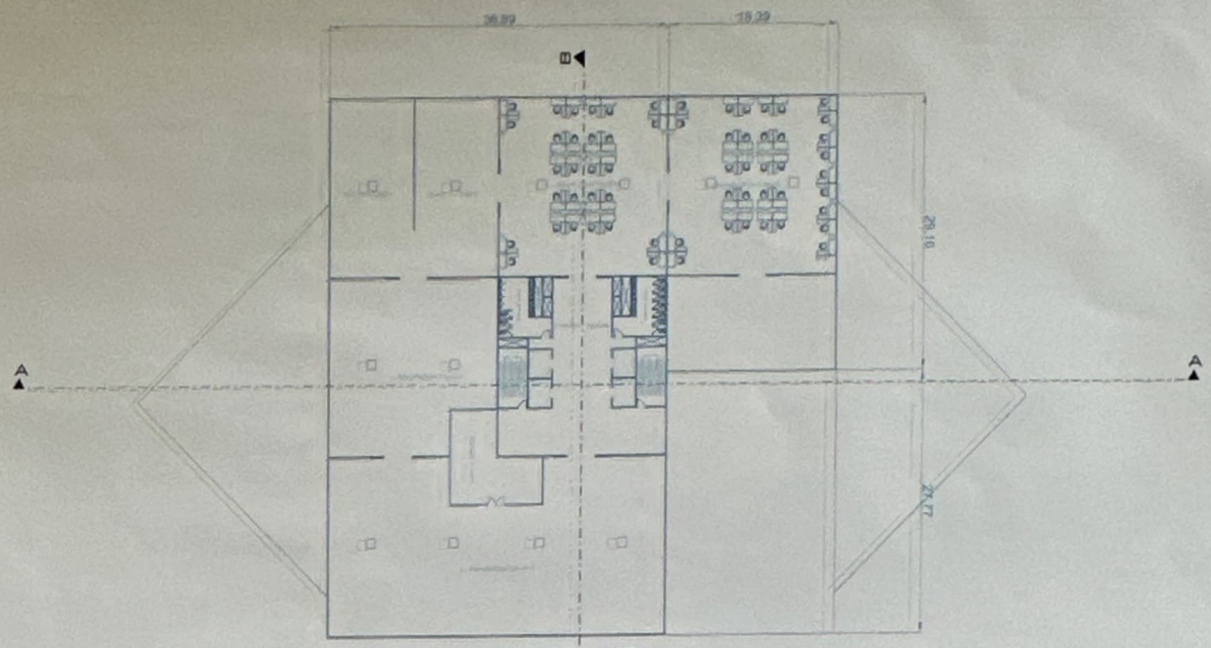


SEVENTH FLOOR
SCALE 1:250

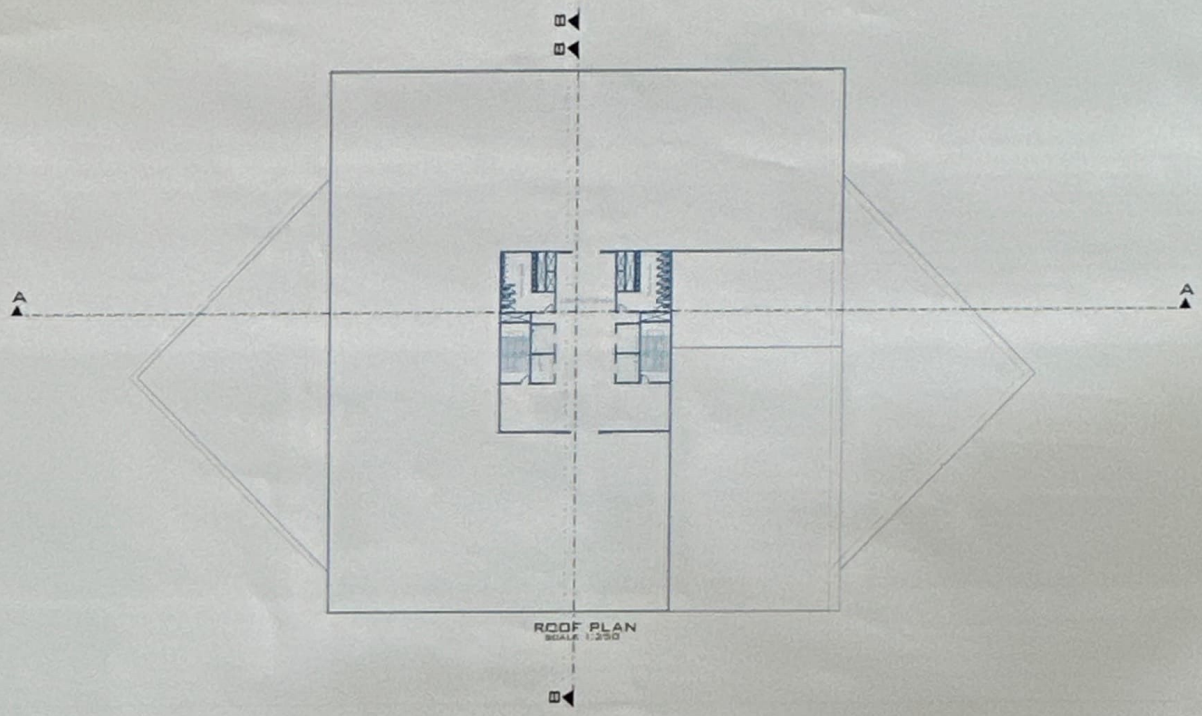
EIGHTH FLOOR
SCALE 1:250

PLANS AND SECTION

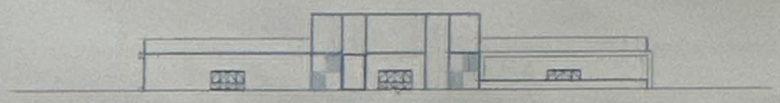
NAVEEN YADAV S M
V SEM
1AA22AT010



NINTH FLOOR
SCALE 1:250



ROOF PLAN
SCALE 1:250



SECTION A-A
SCALE 1:250

PLANS AND SECTION

NAVEEN YADAV S N
V SEM
1AA22AT010

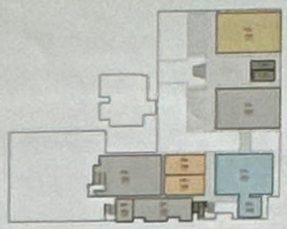
CENTRE FOR ENVIRONMENTAL PLANNING AND TECHNOLOGY

ARCHITECT: B.V DOSHI
LOCATION: GUJARAT,AHEMDABAD
AREA: 12.5 ACRE
BUILT: 1962

INDIA

GUJARAT

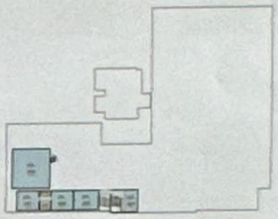
AHMEDABAD



GROUND FLOOR

FIRST FLOOR

SECOND FLOOR



FOURTH FLOOR

- FACULTY OF ARCHITECTURE AND FACULTY OF PLANNING
- FACULTY OF DESING AND FACULTY OF TECHNOLOGY
- AMENITIES (CANTEEN, STATIONERY, PRINTING SHOP ETC
- LAWNS
- FACULTY OF PLANNING
- FACULTY OF ARCHITECTURE
- WORKSHOP
- CIRCULATION
- SERVICE AREA

CONCLUSION FROM PLAN
THERE IS ALSO EQUAL PROPORTIONS OF FACULTYAND STUDENT AREAS.
THE STUDIOS ARE PLACED AT NORTH.
SERVICE AREAS ARE PROVIDED AT EVERY REGULAR INTERVAL.
ALL AREAS ARE INTERCONNECTED.
INWARD LOOKING BUILDINGS WITH MEJORITY TOWARDS INSIDE.

-BRIDGES CONNECTING DIFFERENT DEPARTMENTS.
-INTERMEDIATE OPEN TO SKY SPACE.

1

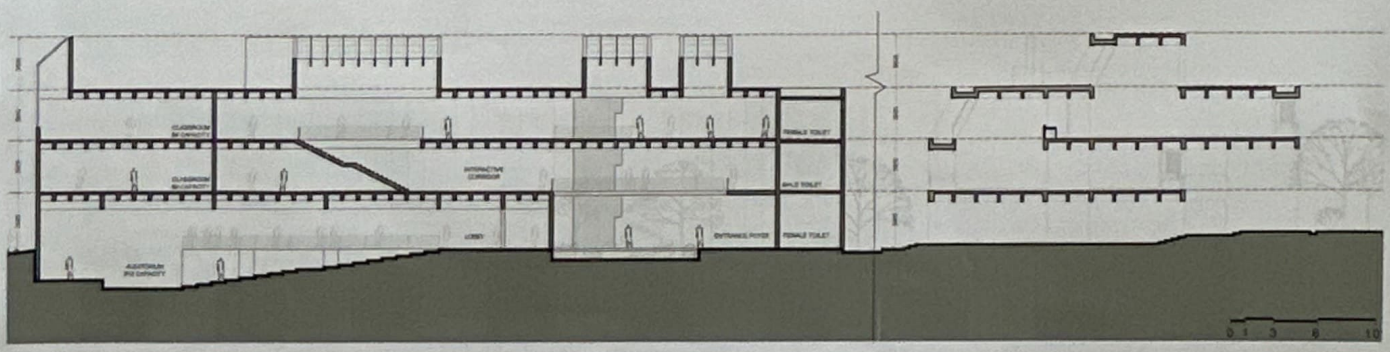
-PLACE FOR INTERACTION.
-BENCH FOR SITTING.
-LEVELS OR STEPS MADE OF BRICKS AND SANDSTONE ARE USED FOR SEGREGATION PLACES AS WELL AS THEY PROVIDE PLACE FOR READING, PERFORMANCE ETC.

3

-THE UNDULATING LEVELS ARE HERE.
-THE LEVELS WERE LEFT AS THEY WERE AND MADE THOSE AREA A SITT, RELAX PLACE.

4

-THE STUDIOS HAVE LARGE OPENING WHICH OPEN INT GREENERY OUTSIDE.
-ALL THE STUDIOS ARE ABOVE ONE ANOTHER, ALONG WITH ADJACENT LECTURE HALLS.

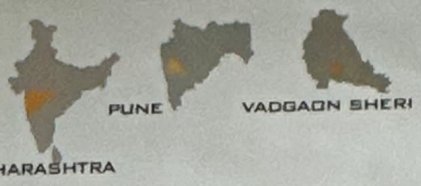


LIVE CASE STUDY

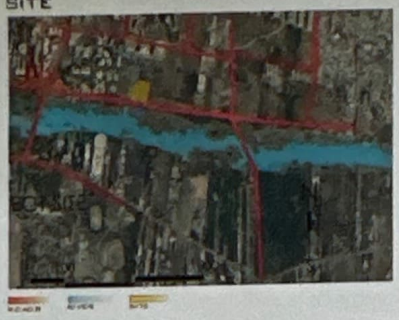
NAVEEN YADAV S M
V SEM
1AA22AT010

INCUBATION HUB

ARCHITECT: SURBHI S GHODKE
LOCATION: PUNE, MAHARASHTRA, INDIA
AREA: 10734 SQM.



SITE

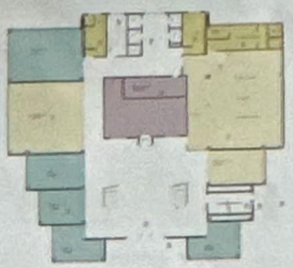


THE PROJECT SITE IS LOCATED IN REVENUE VILLAGE OF VADGAON SHERI, A SUBURB IN PUNE CITY. THE SITE IS ACCESSED BY 30.0 METER WIDE RIVERSIDE ROAD ON SOUTH. IT IS ABUTTED BY RESIDENTIAL DEVELOPMENT ON EAST AND NORTH SIDE. ON THE WEST SIDE THE SITE IS ABUTTED BY A NALAH AND COMMERCIAL DEVELOPMENT BEYOND. THE SITE ADMEASURES 10734 SQ. M.

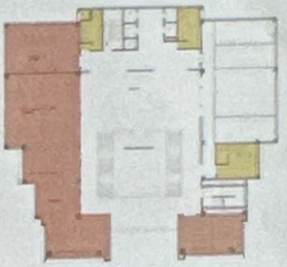
NEARBY LANDMARKS

BUND GARDEN

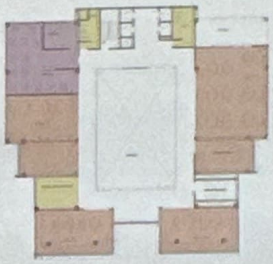
AGA KHAN PALACE



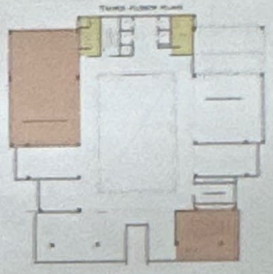
GROUND FLOOR PLAN



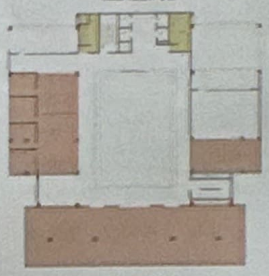
SECOND FLOOR PLAN



THIRD FLOOR PLAN



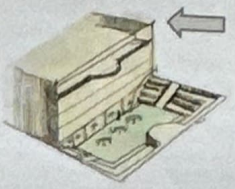
THIRD FLOOR PLAN



FOURTH FLOOR PLAN

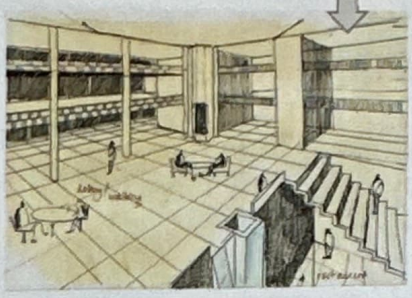
FOCAL FEATURE

-A TRIPAL OR MORE HEIGHT ATRIUM FORMS THE BASIC OF THE DESIGN AROUND WHICH ALL THE SPACES HAVE BEEN PLACED WITH OPEN STAIRCASE LEADING TO THE RESTAURAT AT GROUND LEVEL.
-WORKSPACES AND OFFICES OF DIFFERENT SCALES ARE STRUNG ALONG RUNNING CORRIDOR THAT OVERLOOK THE ATRIUM, THE CENTRAL SPACE ACTS AS THE MAIN SPACE FOR INTERACTION.



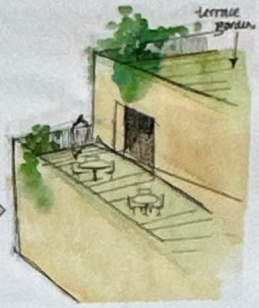
RESTAURANT FURTHER EXTENTS TO LOWER GROUND FLOOR WHICH OPENS TO SUNKEN GRADEN/AMPHITHEATER, WHICH WILL HAVE OPEN SEATING OUTSIDE.

2



TERRACE GARDEN

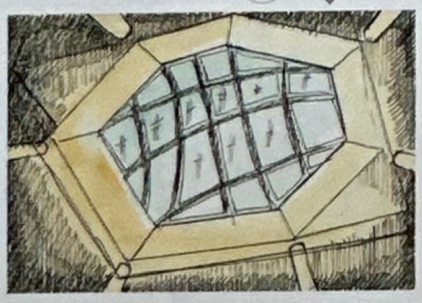
OPEN ROOF TERRACES ARE FORMED ON EVERY FLOOR TO MAKE SPACES MORE INSTERSTING. THE TERRACES CAN ALSO BE USED AS CAFETERIA AND INTERACTING SPACES.

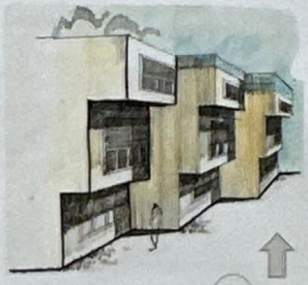


OCTOGONAL ATRIUM ROOF

SPACE FRAME COVERED WITH TRANSLUCENT MATERIAL ALLOWS THE NATUREAL LIGHT TO PENETRATE INSIDE THE ATRIUM, THUS ALWAYS KEEPS IT LIT. IT ALSO LIGHTS THE CORRIDOR AND WORKSPACE.

3





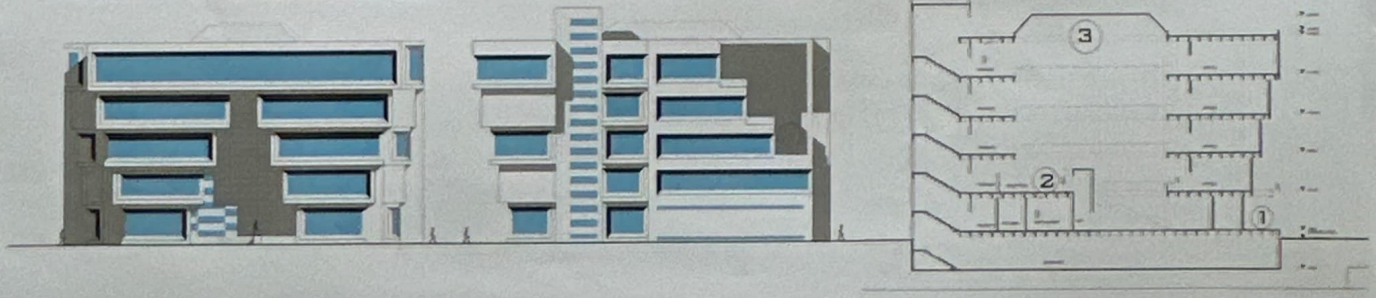
1

A STEPPED PROFILE IS ACHIVED IN THE BUILDING IN PLAN AS WELL AS IN ELEVATION ESPECIALLY ON THE SOUNTHERN SIDE, SO THAT THE UPPER LEVEL PROJECTS TO PROTECT THE LOVER LEVEL IN SHODOWS

LEGENDS

- RESTRAUNT
- RECREATION
- SHOP
- WC
- START UP
- CIRCULATION

AREA GRAPH



LITERATURE CASE STUDY

NAVEEN YADAV S M
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1AA22AT010

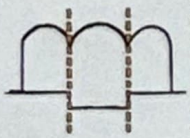
STATION F, PARIS

Architect : Wilmotte & Associates
Location: France
Area: 21,000 sq m (Site)
34,000 sq m (Built up)
Capacity : 1000 Startups

Station F is an adaptive reuse project by Wilmotte and Associates that transformed an old transshipment hub for trucks and trains into world largest technology incubator.
This remarkable building in prestressed reinforced concrete is located in the urban renewal area of the Paris Rive Gauche Mixed Development

Station F is subdivided into 3 Distinct Zones

Facing the large paved esplanade, share zone is created and dedicated to public to exchange ideas and improve conversations.
Chill zone at the end of the building also allows public integration with 24 hours restaurant which is open to public. Create zone, heart of this incubator, is where more than 3000 co-workers will be based.



Each zone then separated into three vertical zone based on three parallel naves, featuring pre stressed concrete arches in the hub. Among three naves, the central nave is dedicated to activities with higher level of collaboration.

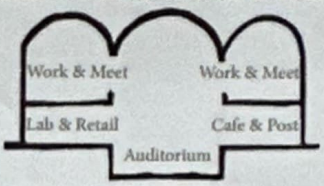
LOCATION

Situated in a former rail freight depot previously known as la Halle Freyssinet.

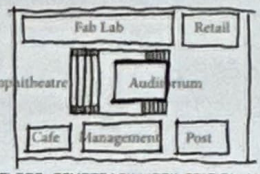
walkable distance from rail station

SHARE ZONE

Share zone is the zone with the highest level of interaction and collaboration in Station F



Most of the time, these huge event spaces are left empty, being flexible enough to be transformed to caters for both day and night events for public and external partners.

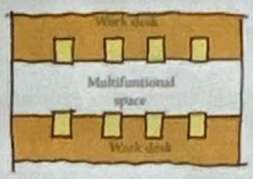


At first floor, temporary work station and meeting rooms are provided for entrepreneurs to meet their external partners and clients. A smaller event space (Junior stage) which is a more intimate stage with powerful equipment for demo pitches of startups. Adjacent to this junior stage, there is a game area with soccer table engages both coworkers and guests.

CREATE ZONE

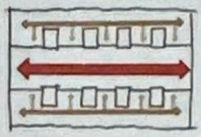
Heart of Station F where coworkers will be based

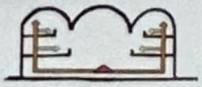
ZONING



The central nave is a multi-functional and community space which are suitable for smaller events
Both side naves are functional homes to all the startups as highlighted in orange.
These open-plan work spaces are subdivided into 4 villages and are supported by 4 bundles of facilities which is highlighted in yellow.

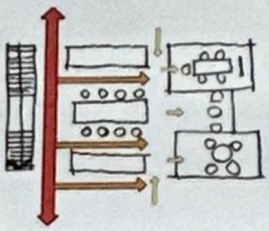
CIRCULATION





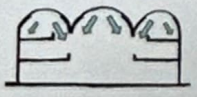
The long rectangular space which has made easy in way finding for startups. The central nave has the primary connectors to all the space in this zone, followed by internal staircase which is behind every facilities bundle. As it is an open-plan design, secondary connectors are used to link all staircases, facilities containers and workstation together.

WORKING DESING

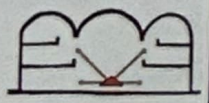


Each facilities core in create zone comes with kitchen pantry, skype box and meeting rooms which are easily accessible from all direction.

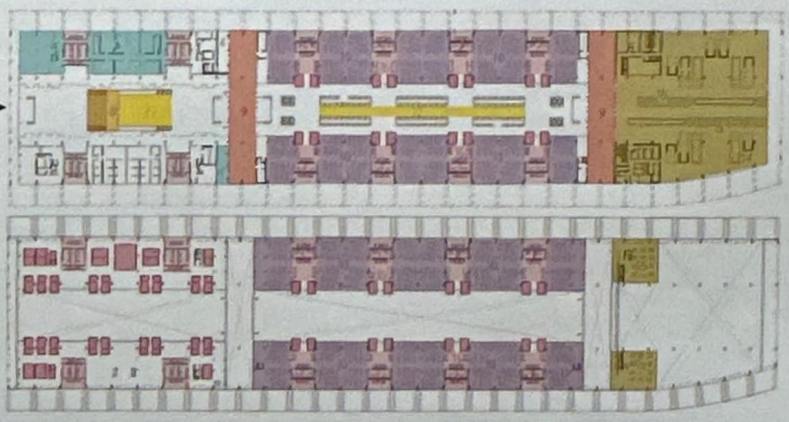
VISUAL CONNECTIVITY



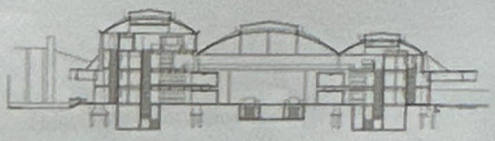
DAYLIGHTING



GROUND FLOOR



SECTION



LEGENDS

- FAB-LAB
- VILLAGE
- AUDITORIUM
- MULTI-PURPOSE SPACE
- MEETING ROOMS
- CO-WORKING SPACES
- RESTAURANTS
- CORSSING PUBLIC WALKWAYS
- MAIN ENTRANCE

LITERATURE CASE STUDY

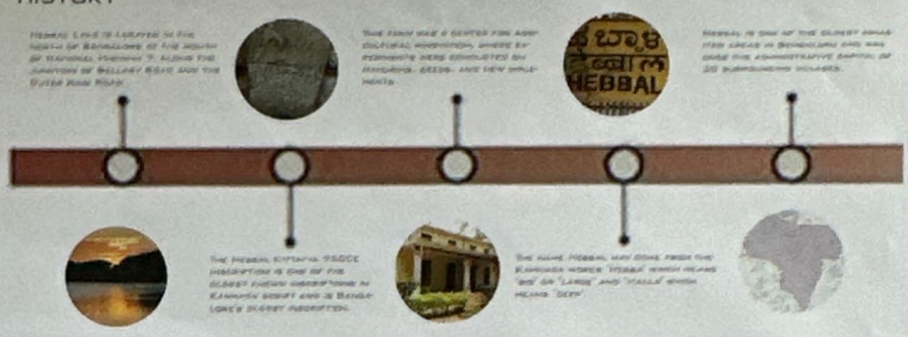
NAVEEN YADAV S M
V SEM
1AA22AT010

SITE ANALYSIS

LOCATION

LOCATION: INDIA, KARNATAKA, BANGALORE, HEBBAL
ZONE: COMMERCIAL
TOTAL SITE AREA: 12.8 ACRES
ELEVATION: 888MTS
TYPOGRAPHY: FLAT

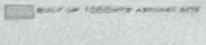
HISTORY



NEIGHBOURHOOD CONTEXT

BUILT UP

BUILT UP 500D AND 1000MTS AROUND IN SITE IN INDICATED WITH BLACK AND GRAY RESPECTIVELY

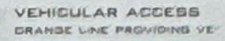


WATER BODIES

THE SITE IS SITUATED RIGHT NEXT TO NAGAVARA LAKE PROVIDING EXCELLENT VIEW AND COOL AIR

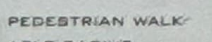
GREEN SPACE

THE SURROUNDING LAKES A LOT OF GREEN SPACES DUE TO IT BEING COMMERCIAL AREA



VEHICULAR ACCESS

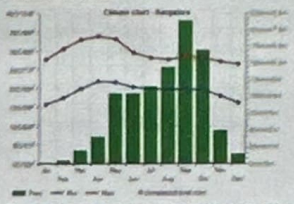
ORANGE LINE PROVIDING VEHICULAR ACCESS IN AND AROUND THE SITE



PEDESTRIAN WALKABLE RADIUS

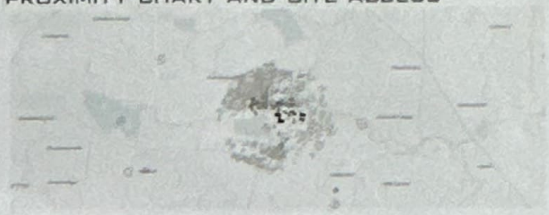
THIS PROVIDES THE 15MINS OF WALKABLE DISTANCE AROUND THE SITE.

CLIMATE



BANGALORE HAS RELATIVELY MILD TEMPERATURE RANGE THROUGHOUT THE YEAR. THE AVERAGE HIGH TEMPERATURE IS 95 °F AND THE AVERAGE LOW TEMPERATURE IS 62 °F.

PROXIMITY CHART AND SITE ACCESS



SHANKARSHAH 100M
BANGALORE BAPTIST HOSPITAL 6KM
SRV GAS HOSPITAL 2.3KM
MITTE INDIAN INSTITUTE OF TECHNOLOGY 17KM
KARNATAKA SHIVAKALA PARISHAT 10KM
KEMPEGOWDA INTERNATIONAL AIRPORT 28KM
MEDIA HUB 10KM
MANYATA TECH PARK 1.6KM
KALIGNAN TECH PARK 5.1KM
GANGA BANK 1.6KM
ABK BANK ATM 1.7KM
HOSCHALU 2.3KM

ACESS TO SITE

NEARBY BUS STAND
NAGAVARA BUS STOP 1.5KM

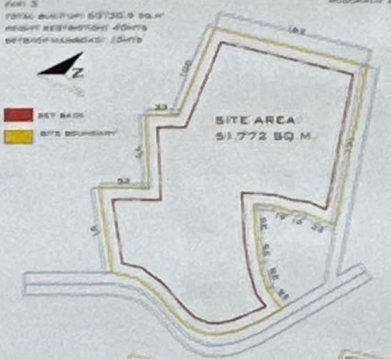
NEAREST BUS STOPS AT DISTANCES OF 282M

NAGASI METRO-NAGAWARA METRO STATION 5.8 KM

NEAREST RAILWAY STATION/HALLI RAILWAY STATION

SITE DIMENTION

AREA: 13ACRES
GROUND COVERAGE(40%): 51,643.55 SQ.M
FAR: 3
TOTAL BUILT UP: 157328.9 SQ.M
HEIGHT RESTRICTION: 45MTS
SETBACK MARGINS: 15MTS



SUNPATH AND WINDPATH

VEGETATION

SUNPATH AND WIND DIRECTION AND RAINFALL

- SUN MOVE FROM EAST TO WEST IN SOUTHERN DIRECTION
- PREVAILING WIND FLOW FROM SOUTH-WEST TO NORTH-EAST
- THE AVERAGE ANNUAL RAINFALL IS AROUND 970 MM.

VEGETATION AND SOIL

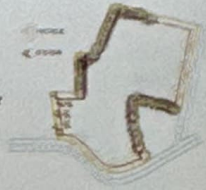
- SETBACK OF 15M NEEDS TO BE PROVIDED ON THE SIDES WITH ROADS ON

SETBACK AND VIEWS

- SETBACK OF 15M NEEDS TO BE PROVIDED ON THE SIDES WITH ROADS ON SITE
- GOOD VIEWS TOWARDS THE LAKE AND VEGETATION
- BAD VIEWS TOWARDS RESIDENTIAL ZONE AND STEEL AND GLASS INDUSTRY

CONTOUR AND DRAINAGE

- SLOPE: THE SITE APPEARS TO SLOPE DOWNWARDS TOWARDS NAGAWARA LAKE, WHICH NEEDS ATTENTION FOR WATER RUNOFF AND DRAINAGE PLANNING.



NOISE ZONE

- NOISE POLLUTION FROM THE MAIN ROAD AND SOMETIMES FROM THE SIDE ROAD.
- TRAFFIC NOISE IS HIGH AT THE SIDE ROAD
- BUS STOP ALONG NORTH SIDE DUE TO GREEN SPACE.

PROPOSED BUFFER ZONE

- BUFFER ZONE HAS BEEN PROPOSED ON 3 SIDES ON THE SITE TO AVOID THE NOISE POLLUTION AND BAD VIEWS

SITE SECTION

SITE SECTION AND SLOPE IS DETERMINED BY THE ABOVE MENTIONED CONTOUR STUDY. THE TOP LEFT PART OF THE SITE IS THE HIGHEST POINT AND IS LOWEST POINT IS THE THE CENTER OF THE SITE. THESE TWO POINTS WILL HELP TO DETERMINE THE PROPOSED SITE LOCATION. THE SLOPE ALSO WITH THESE LINES SUGGEST HARVESTING OF LOCATION WHICH RESIDES AT THE LOWEST POINT OF THE SITE.

SWOT ANALYSIS

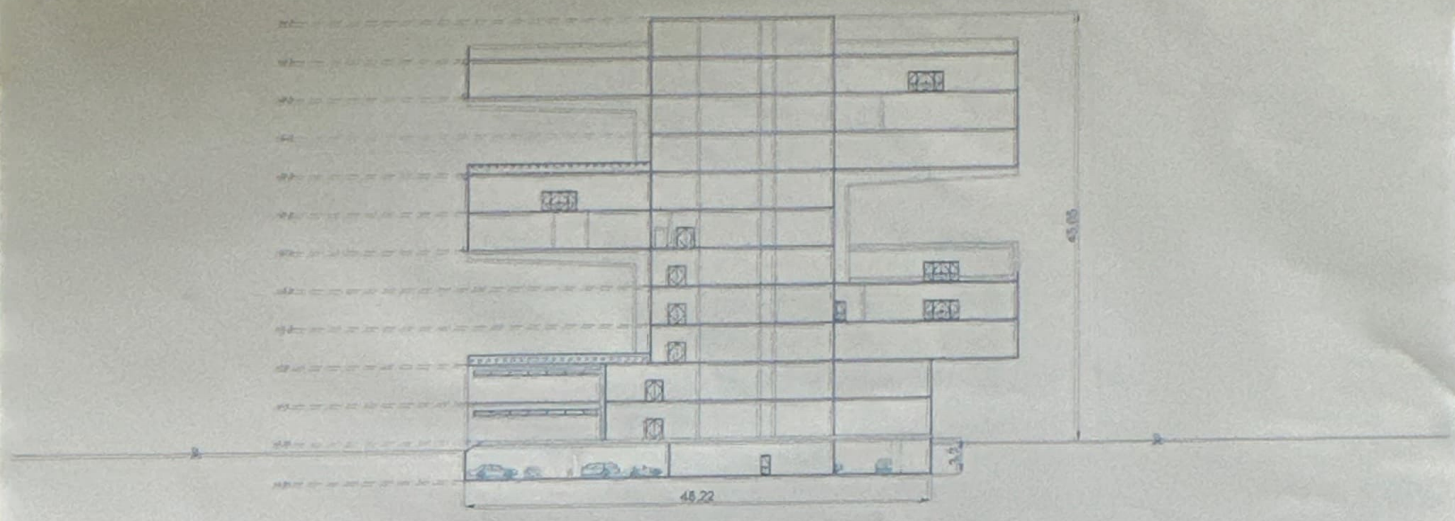
S
- PROXIMITY TO TECH HUBS AND EDUCATIONAL INSTITUTIONS.
- AMPLE SPACE FOR DEVELOPMENT

W
- HIGH LAND COST.
- POTENTIAL TRAFFIC CONGESTION IN PEAK HOURS.

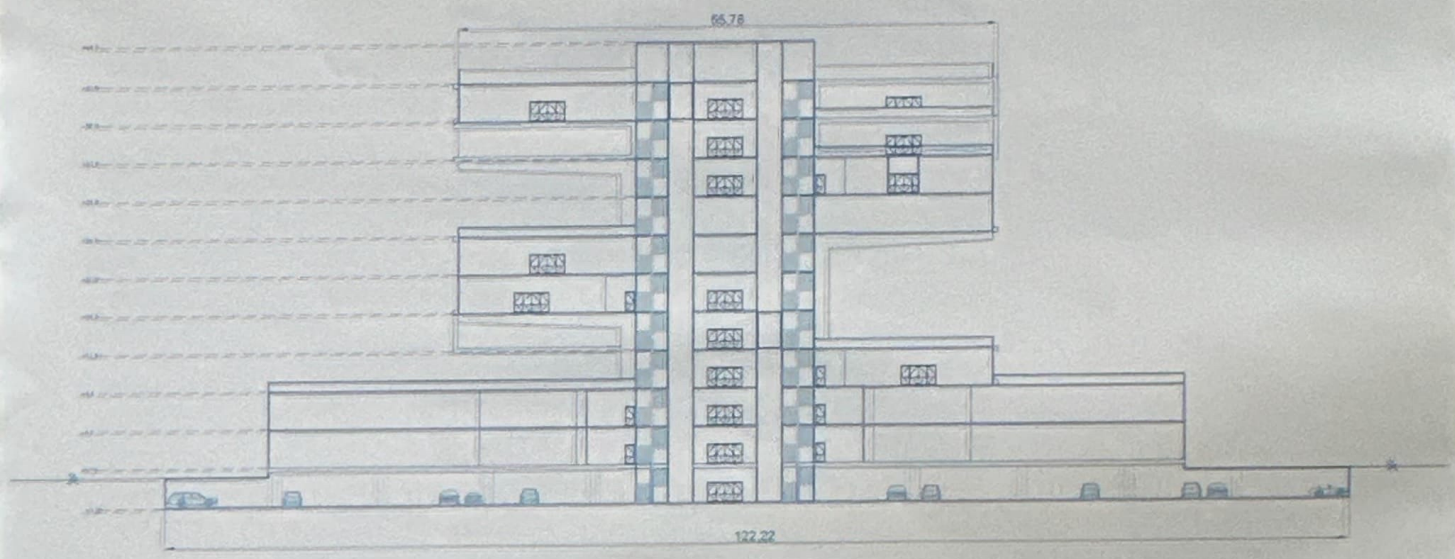
O
- DEMAND FOR INNOVATION CENTERS IN THE AREA.
- SCOPE FOR COLLABORATION WITH NIT BY TECH COMPANIES.

T
- COMPETITION FROM EXISTING PROJECTS.
- POTENTIAL FUTURE URBAN INFRASTRUCTURE CHALLENGES.

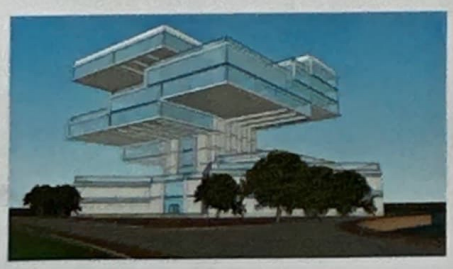
NAVEEN YADAV S M
V SEM

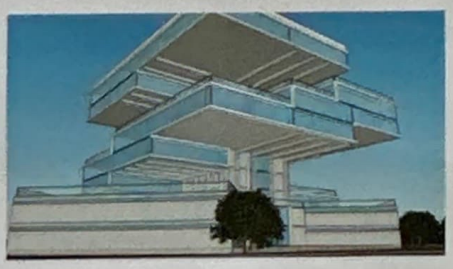


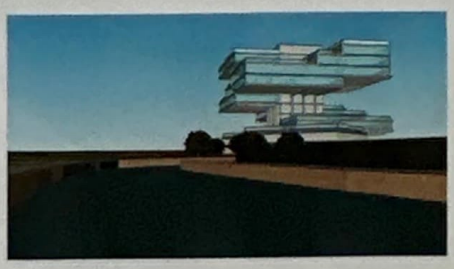
SECTION B-B
SCALE 1:250



SECTION A-A
SCALE 1:250







SECTIONS AND VIEWS

NAVEEN YADAV B.M
V SEM
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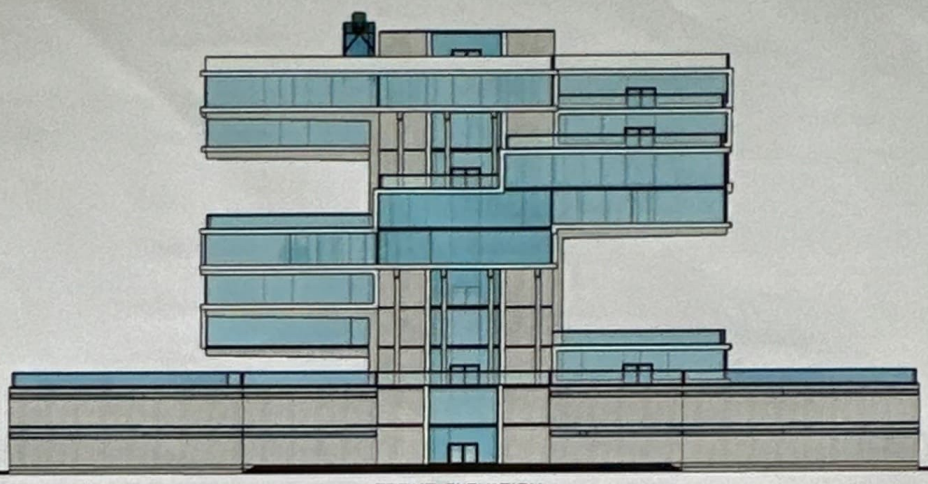
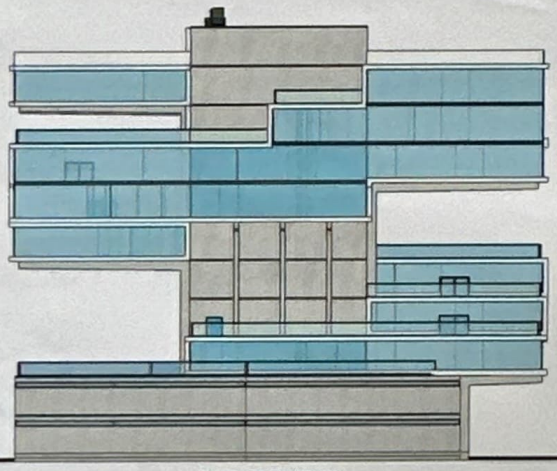
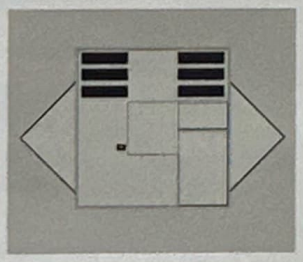


FRONT ELEVATION
SCALE 1:250



SIDE ELEVATION
SCALE 1:250



SECTIONS AND VIEWS

NAVEEN YADAV S M
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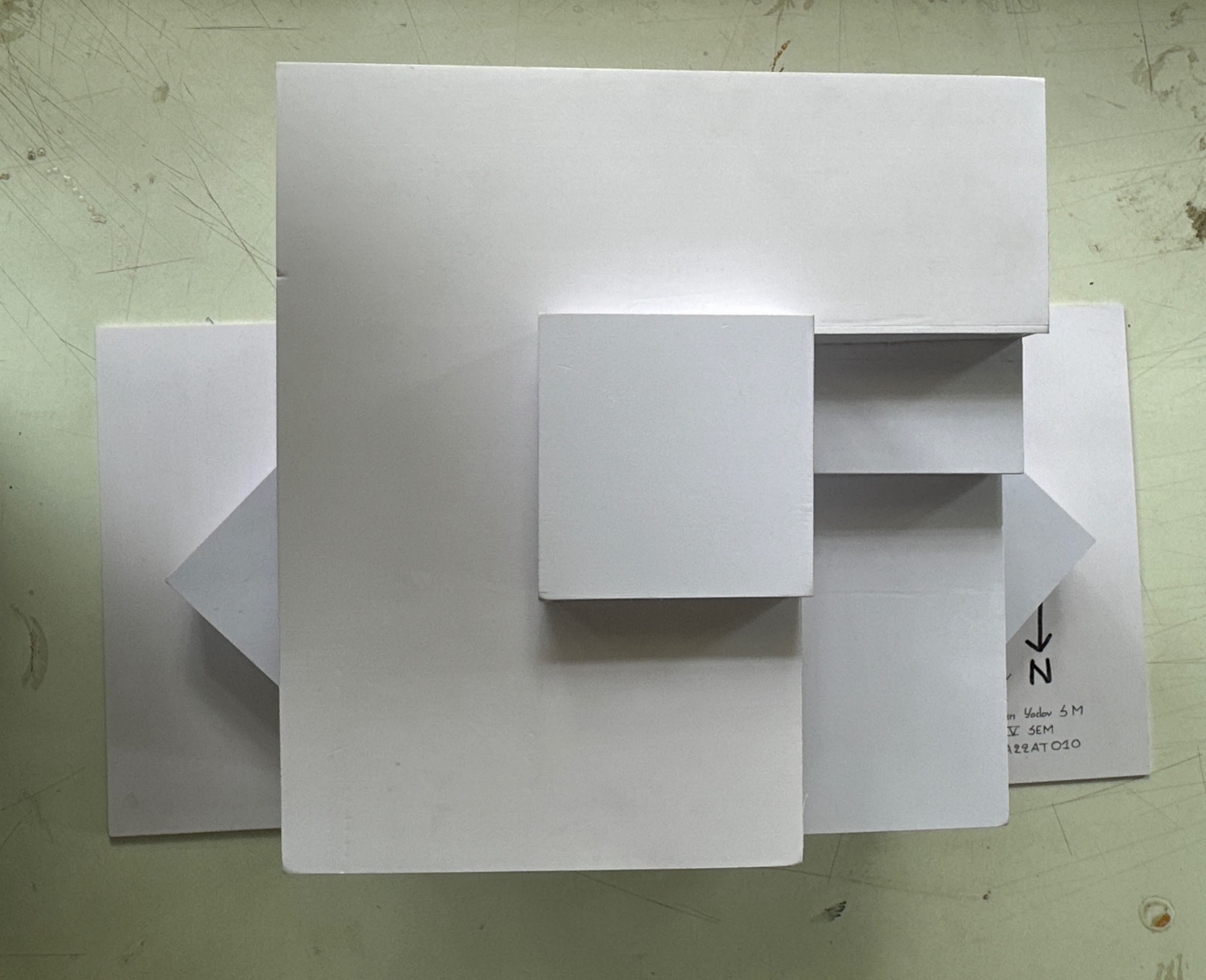
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