COMPARATIVE ANALYSIS OF CASE STUDIES

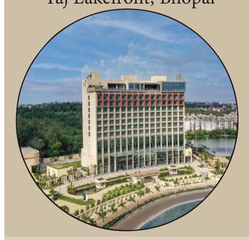
5-STAR HOTEL, BHOPAL

Comparative Analysis of Case Studies

Parameters	Live Case Study		Desk Case Study	
	Taj Lakefront, Bhopal	Radisson, Bhopal	The Westin Gurgaon	Radisson Blu, Paschim Vihar
Ownership / Developer	Indian Hotels Company Ltd. (Taj Group)	Radisson Hotel Group (with local developer)	Vatika Group (Owner) · Managed by Marriott	Carlson Group (Radisson Blu)
Architect	JOI Design	Arjun Malik	Studio U+A (New York & Gurgaon)	Anil Sharma Architects
Year of Establishment	2021	2021	2010	2010
Site Area	4.77 acres	1.1 acres	4.39 acres	3.78 acres
No. of Rooms	152	104	310	200
Topography	Plain land, lakefront	Plain land, urban site	Flat urban site	Plain land
Road Access	18 m arterial + 12 m service	Good city connectivity	MG Road, near IFFCO Chowk Metro	Arterial roads
Theme / Identity	Inspired by Tikamgarh craft, Zari, tribal art	Gond mural + passive fins	Modern luxury + wellness focus	Neo-Gothic business
Use of Local Materials	Regional crafts & motifs	Gond mural, shading fins	Granite, sandstone, travertine, bronze, green marble	Gothic motifs, Italian marble
Basement	2 basements (services + parking)	1 basement	–	3 basements
Ground Floor	Grand lobby, banquets	Double-height lobby, restaurants	Double-height lobby, dining, function rooms	Lobby + mall + banquet
Upper Floors	Guestrooms + specialty restaurants	Guestrooms + banquets	7-level guest wings with glazed façades	Guest floors stacked
Rooftop	Pool + lounge	Pool + terrace dining	Sunset Story lounge with city views	Pool (6th floor)
Basic Rooms	Twin / King	Superior / Executive	Standard Heavenly Bedrooms (42 m^2)	Standard
Suites & Luxury Suite	Executive Suites Presidential Suite (152 sqm)	Junior Suites Executive	Executive luxury suites	Premium Presidential Suite
Materials	 Sandstone, marble, local craft finishes, wood	 Glass facade with shading fins, murals, stone flooring.	 Glass, sandstone, granite, bronze, marble, wood.	 Italian marble, Gothic motifs, glass facade
Unique Features	Railway coach dining, lake-view rooftop	Infinity Terrace	Infinity courtyard, glazed wing, rooftop lounge, 38,000 ft^2 event lawns	Integrated shopping mall
Fire Safety	Fire tank, advanced systems	Sprinklers + hydrants	Sprinklers, alarms, 24×7 security	Honeywell fire hydrants
HVAC	Central chiller	AHUs, efficient cooling		2000 TR plant
Special Features	Presidential Suite, railway dining	Infinity Terrace pool, mural	Iconic form, wellness brand identity, large banquets	Mall + hotel hybrid
Parking	Multi-zone, basements	Basement	~800 vehicles (indoor + outdoor), EV charging	Multi-level basements
Elevators	Guest + service	High-speed lifts	Guest + service lifts	Guest + service lifts
Cultural Element	Tribal crafts, local art	Gond mural	Global wellness theme, minimal local influence.	Neo-Gothic décor
Landscape Integration	Lakefront lawns, green buffer	Urban landscaping	Courtyard gardens, fountain, vegetation buffers	Minimal
Design Language	Heritage + Modern	Contemporary	Modern, material-rich, podium + glazed tower	Neo-Gothic
Ground Coverage / FAR	FAR 2	Compact footprint	1.5	FAR 4
Site Context	Lakefront, ecological buffer	Prime colony	Business district, serene oasis amid traffic	Contrasting urban fabric
Facade				

Case Study Integration

Taj Lakefront, Bhopal





Strong use of local cultural identity (tribal crafts, motifs, regional finishes) creates a landmark rooted in its context.

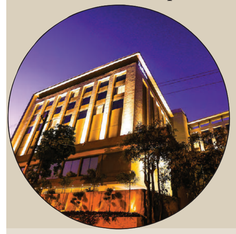


Lakefront site and integration of landscape enhance luxury appeal and ecological sensitivity.



Unique experiences and presidential suites strengthen brand distinctiveness.

Radisson, Bhopal





Despite a small site area, efficient vertical planning accommodates banquets, guestrooms, and rooftop leisure.

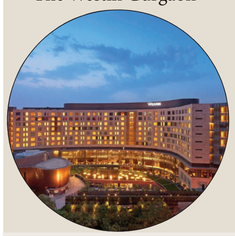


Gond mural integration shows that subtle cultural references can create identity without over-decoration.



Green buffers and trees are used to reduce noise and dust from the main road

The Westin Gurgaon





Global wellness-oriented theme (Heavenly Beds, spa) appeals to international guests.



Strong atrium + courtyard planning enhances daylight and openness.



Reliance on modern finishes and imported materials gives a sleek identity but less local connection.

Radisson Blu, Paschim Vihar





Neo-Gothic styling creates a distinct visual but clashes with local context (alien identity).



Integration of a shopping mall prioritizes commercial viability over hospitality focus.



Heavy reliance on artificial lighting reduces sustainability and contextual fit.

CASE STUDY INCORPORATING THE CONCEPT

The Rambagh Palace in Jaipur

Location
Jaipur, Rajasthan, India
Architect
Sir Samuel Swinton Jacob was the principal designer behind its Indo-Saracenic transformation.

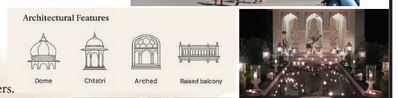
In Rambagh Palace's Timeline
1835: Built as a garden house for Prince Ram Singh II's nurse.
1887: Converted into a hunting retreat/lodge by Maharaja Sawai Madho Singh.
Early 1900s: Expanded into a full-fledged palace by architect Sir Swinton Jacob.
1925–1931: Became the official royal residence of Sawai Man Singh II.
1957 onwards: Converted into a luxury hotel (Taj Rambagh Palace).

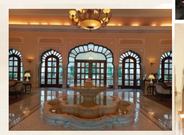
Architectural Features
Stylistic Blend – Rajput, Mughal, and Indo-Saracenic styles.
Palatial Layout – Symmetrical plan with large courtyards, verandahs, and gardens.
Landscape Integration – Mughal-style gardens with fountains and manicured lawns.
Luxurious Interiors – Frescoed ceilings, marble jalis, stained glass, Belgian chandeliers.

Architectural Elements
Domes – Onion-shaped domes typical of Rajput and Mughal traditions.
Chhatris & Jharokhas – Elevated pavilions and overhanging balconies with ornate detailing.
Arches – Multi-foil arches with Mughal influence.
Marble Jalis – Intricate perforated screens for ventilation and light play.
Ballrooms & Durbar Halls – Spaces for royal gatherings with European chandeliers and mirrors.
Mughal Gardens – Charbagh-inspired landscaping, fountains, and water channels.

The theme of Rambagh Palace, Jaipur is royal leisure and grandeur, evolving from a hunting retreat to a palatial residence, and now to a heritage hotel where the guest experience is designed around the idea of living the life of Indian royalty.









TAKEAWAYS FROM LIVE CASE STUDIES

5- Star Hotel, Taj Lakefront, Bhopal, Madhya Pradesh

1. The staircase in Taj Lakefront has ventilating windows, but according to NBC requirements, fire escape stairways should be completely enclosed with fireproof materials and must not contain openings which can allow smoke entry.

2. The terrace-level guest lift machine room has solely an exhaust fan, but according to NBC, there should be proper ventilation ducts or a mechanical system to avoid heat buildup and for safety reasons-particularly in 5-star hotels.

Radisson Hotel Bhopal

1. Site Orientation and Location
Radisson Hotel Bhopal strategically located in front of the main road so it is readily visible and accessible.

2. Zoning and Functional Plan
The site is optimally zoned:
Public areas (lobby, restaurants, banquet halls) at the front and ground floors.
Semi-public areas (meeting rooms, lounge, spa) centrally located.
Private areas (guest rooms) on higher floors.
Service spaces (kitchen, staff doors, storage) are positioned unobtrusively towards the rear or basement.

3. Access and Circulation
Separate drop-off points close to the entrance for visitors.
Fire engine access road (6m minimum width) is probably available around the building according to NBC standards.

REVIEW- 4

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CONCEPT SHEET

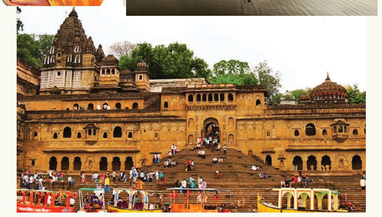
5- STAR HOTEL, BHOPAL

CONCEPT EVOLUTION

Theme: “Heritage by the Lakes: Ahilyabai







Philosophy: The architecture honors the heritage of Ahilyabai Holkar and the Begums of Bhopal, these women who were strong, gracious, and forward-thinking. It is inspired by the City of Lakes, bringing together heritage and contemporary, water, reflection, and regal motifs as the deciding factors. It is transformed into a palace of reflection—a place where history, nature, and the luxury of today exist together in harmony.

Royal Feminine Legacy:
The Begums of Bhopal and Ahilyabai Holkar symbolize strength, resilience, and cultural patronage.

The City of Lakes as Inspiration
Architectural features like courtyards, reflective pools, and terraces capture the tranquility of the lakes while linking interiors to nature.

Fusion of Heritage and Modernity
As the Begums and Ahilyabai fusioned tradition with forward-looking reform, the design fuses vernacular elements (arches, jali-work, stone textures) with modern luxury (glass facades, open-plan lobbies, smart interiors).

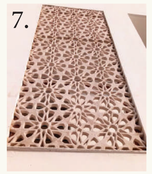
Concept: The fusion of heritage + modernity + luxury
The Regal Reflection" is a 5-star, 8-floor hotel in Bhopal that blends heritage, modernity, and luxury. Influenced by the City of Lakes, it takes inspiration from Ahilyabai Holkar's eternal ghats and the Begums of Bhopal's royal palaces, combining arches, courtyards, and jali-work with glass façades, infinity terraces, and smart luxury interiors. It turns into a palace of reflections, where history, water, and modern comfort exist in equilibrium.

ARCHITECTURAL MATERIALS

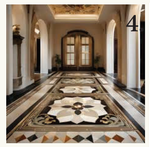








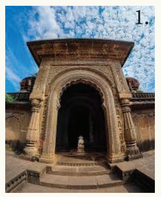






1. Local Sandstone
2. Red & White Sandstone
3. Brick with Lime Plaster (Stucco)
4. Marble
5. Textured Renders
6. Mirror & Glass Inlay (Sheesh Mahal influence)
7. GRC (Glass Reinforced Concrete) Jali Panels

ARCHITECTURAL ELEMENTS

















1. Arches
2. Chhatris
3. Jali Screens
4. Open-air Pavilions
5. Columns with floral and geometric carvings
6. Brass & Ironwork (metal craft traditions).
7. Hand-Painted Fresco Panels

MPT HOTELS- MAIN GOAL

1. Architectural Heritage & Cultural Immersion: It includes domes, arches, chhatris, chanderi fabrics, sandstone, and Goan murals.

2. Eco-friendly Design: Employ local materials: Bansi Paharpur sandstone, Katni marble, laterite stone, Kota stone, lime plasters.

3. Women Safety: All-women staff, safe single women traveler spaces, women-only floor with women staff. Example MPT Hotel Amaltas in Pachmarhi

4. Harmony with Nature: Lake-view rooms that bring guests closer to nature.

5. Cultural Programmes & Storytelling: Folk dances, music, puppet performance, qawwali nights, Mehfil rooms, tribal art in public places.

IDEA FOR THE CONCEPT

Maheshwar Fort, Maheshwar, Madhya Pradesh

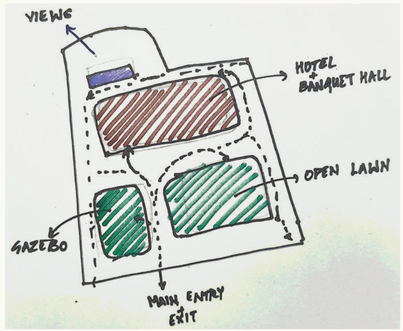
Architectural Features:
Maheshwar's temples are defined by architecturally designed features like shikhara, mandapa, ghats, chhatris, toranas, courtyards, jaali, and carved stone details; hence, elements of these features can be employed in the luxury hotel through courtyard planning, riverside terraces, jaali screens, and rooftop chhatri lounges.

Maheshwar's ghats, courtyards, gateways, carvings, and riverfront ambience can be reiterated as terraces, atriums, entrance sequences, luxury interiors, and water courts so that the project can be a proper marriage between Maheshwar's legacy, Bhopal's lakes, and luxury today.

The exteriors express heritage through form and facade articulation, while the site plan reflects lakeside ambience through courtyards, water courts, and ceremonial arrival, making the 5-star hotel a seamless fusion of Ahilyabai, the Begums, and the City of Lakes.



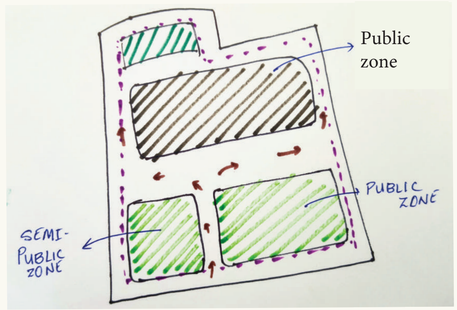
CONCEPTUAL ZONING



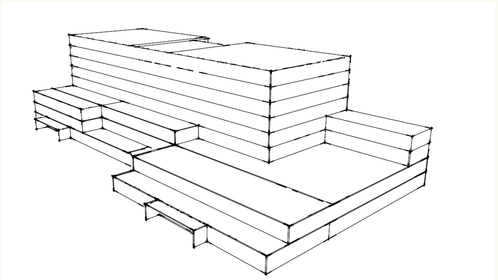
The view is oriented towards the Upper Lake of Bhopal.

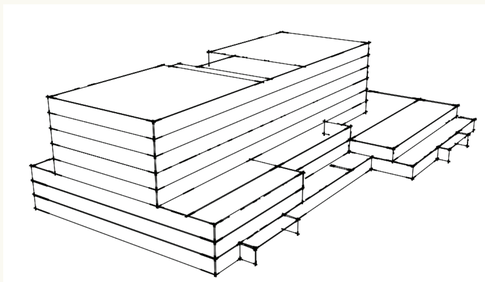
The zoning is done keeping in mind a free accessibility for the users.

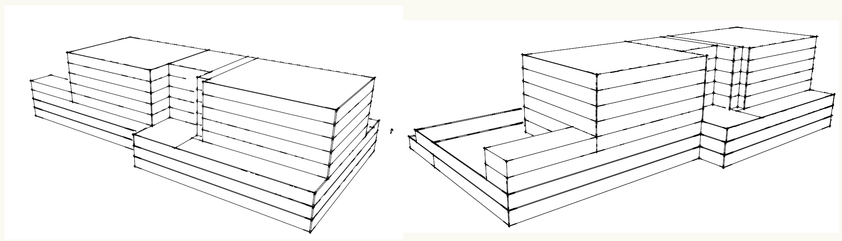
The Building block is placed in such a way that the sun rays should not penitrate directly inside the building.



FORM DEVELOPMENT







1. Massing Composition
The building consists of three primary tiers:
Lowest tier: A wide base spreading horizontally across the site.
Middle tier: Slightly receded, creating terraces and step-backs.
Top tier: A compact block placed toward the rear-left side.
The stepped configuration suggests natural light optimization, view framing, and visual reduction of bulk.

2. Architectural Expression

Strong emphasis on horizontal layering, shown by the parallel lines representing floor slabs.
Clean geometry with solid orthogonal edges, conveying a modernist or contemporary design language.
Cantilever-like projections on some sides create dynamic visual interest.

3. Overall Form
It shows a stepped, horizontal massing with multiple blocks arranged in a terraced formation.
The building appears to be composed of clean, rectilinear volumes stacked in varying heights

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SITE ANALYSIS

5- STAR HOTEL, BHOPAL

INTRODUCTION

Site Details

MPT- HOTEL SOVANA

Name of the Project: Development, Operation & Maintenance and Management of Lakeview Residency Hotel, Bhopal on Design, Build, Finance, Operate, Transfer (DBFOT) Mode.

Location: Shyamala Hills, Bhopal, Madhya Pradesh, overlooking Bada Talab (Upper Lake).

Latitude & Longitude: 23.243043872752793, 77.38768911349595

Land Ownership: Madhya Pradesh Tourism (via MPHCL)

Land Area (Site Area): ~7.16 Acres (28,975 sq. m.)

FAR - 2

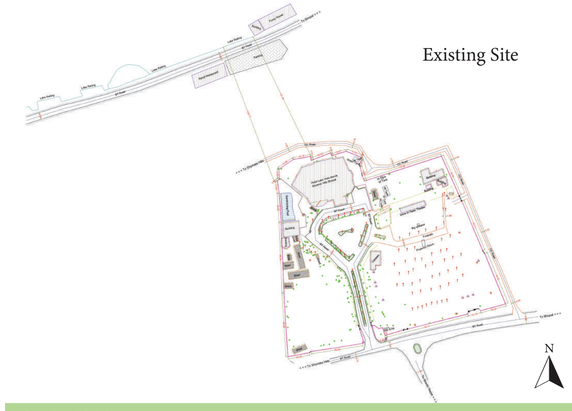
Ground coverage- 30%

Permissable Build-up- 30 mt



SITE FEATURES

Site Plan (With site dimensions and Contours)

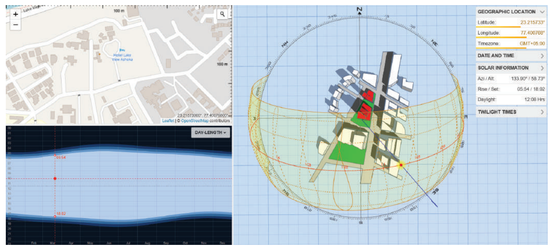


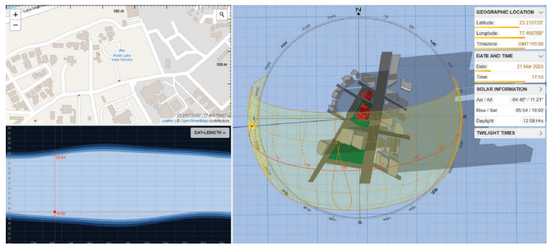
Existing Site



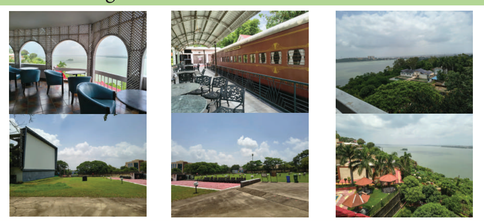
Site Topography

SUN PATH





Site Surroundings and Views



SWOT ANALYSIS

S

Premium location in Shyamla Hills, Bhopal.
•Adjacent to Upper Lake – offers panoramic views and cool microclimate.
•Excellent road connectivity to the city center.
•Close to major tourist spots (museums, parks, cultural complexes).

W

High Humidity & Corrosion – Lakeside humidity can accelerate wear on metal fixtures and finishes.
•Noise & Activity – Tourist activities along the lakefront could conflict with luxury hotel ambience.

O

Potential for a landmark lake-view luxury hotel.
•Rooftop dining and leisure areas with panoramic views.
•Landscaped gardens and outdoor event spaces.
•Scope for eco-tourism and cultural activity zones.
•Integration of wellness facilities (spa, yoga, meditation).

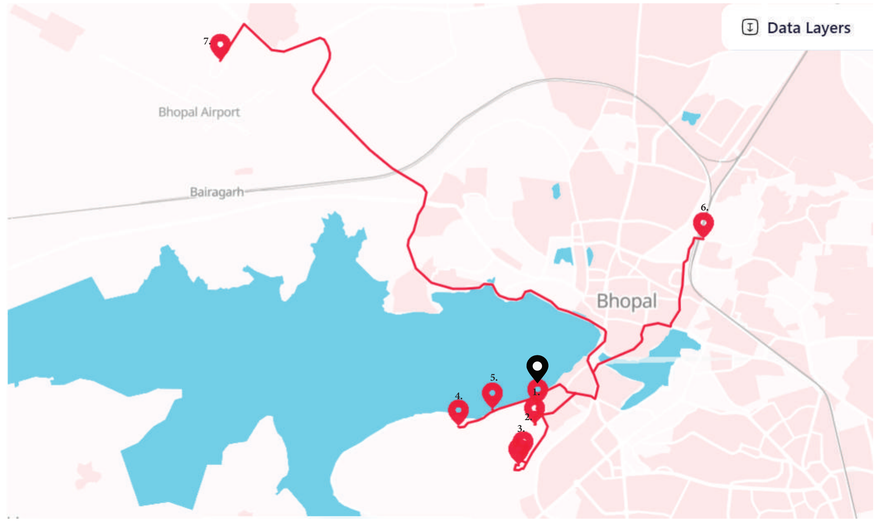
T

Height restrictions imposed by Airport Authority.
•Risk of public protests or legal challenges if ecology is harmed.
•Design limitations to preserve the skyline and protect lake views.

VEGATATION ON SITE



SITE PROXIMITY



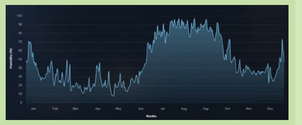
Site - MPT Bhopal

1. Jehan Numa Palace Hotel - 150 meters
2. Regional Museum of Natural History - 1.5 kilometres
3. MP Tribal Museum - 800 meters
4. Van Vihar National Park - 500 meters
5. Upper Lake Boat Club - 300 meters
6. Bhopal Railway Station - 7.5 kilometres
7. Raja Bhoj International Airport - 14.5 kilometres

CLIMATE



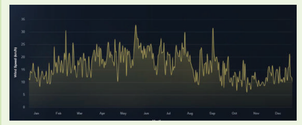
Peak Summer (Hottest Month)
-Month: May
-Temperature:
Max: 42–43°C
Min: 26–28°C
- Humidity: Low (20–30%)
Peak Winter (Coldest Month)
-Month: January
-Temperature:
Min: 6–8°C
Max: 22–24°C



- Humidity: Low to moderate (~45–55%)
Maximum Humidity
-Month: August (Monsoon Peak)
38
-Humidity: 85–90% (morning), ~75% (evening)
Minimum Humidity
-Month: May (Pre-Monsoon Summer)
-Humidity: 20–30%



Maximum Rainfall
-Month: August
-Rainfall: 350–400 mm (highest monthly average)
-Conditions: Overcast skies, continuous rainfall, saturated ground, high humidity (~85–90%)
Minimum Rainfall
-Month: December
-Rainfall: 3–5 mm (lowest rainfall)
-Conditions: Clear skies, dry air, pleasant days

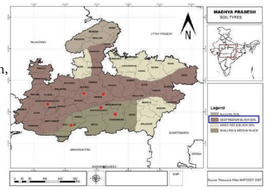


Maximum wind speed
-Month : June (Peak pre-monsoon & Early Monsoon)
-Average wind speed: 15–20 KM/H
-Wind direction: Predominantly South-West (SW) Minimum wind speed
-Month: November–December
-Average wind speed: 3–5 KM/H
-Wind direction: North-East (NE) or calm conditions.

SOIL & TOPOGRAPHY

SOIL

1. The site has black cotton soil (characteristic of Bhopal region).
2. It has high clay content, making it expansive in nature – swells during monsoon, shrinks in summer.
3. Requires special foundation treatment (raft/ pile foundations often preferred).
4. Fertile in nutrients, but structurally weak for heavy construction without reinforcement.



TOPOGRAPHY

The site is part of the undulating Malwa plateau.
Gently sloping terrain with elevation around 500–550 m.
Natural depression towards the Upper Lake (Bhojtal) side, giving a downward slope for drainage.



SITE INFERENCES

Climate & Environment
1. Sub-tropical climate with hot summers and moderate winters.
2. Lakefront provides cooling effect, scenic views, and environmental value.
3. Good wind movement due to open lake exposure, useful for natural ventilation.

Topography & Water
1. Gently sloping terrain towards Bhojtal (Upper Lake).
2. Natural drainage is ensured.
3. Proximity to the lake enhances visual appeal but requires sensitive design due to ecological importance.

Cultural & Economic Potential
1. Historic Bhojtal gives cultural importance.
2. Strong tourism potential due to heritage and lakefront location.
3. Economic viability supported by proximity to city infrastructure and tourist flow.

Site Context & Vegetation
1. Surrounded by natural greenery and vegetation.
2. Rich plant variety adds to microclimatic comfort.
3. Urban context nearby ensures accessibility while lake edge offers seclusion.

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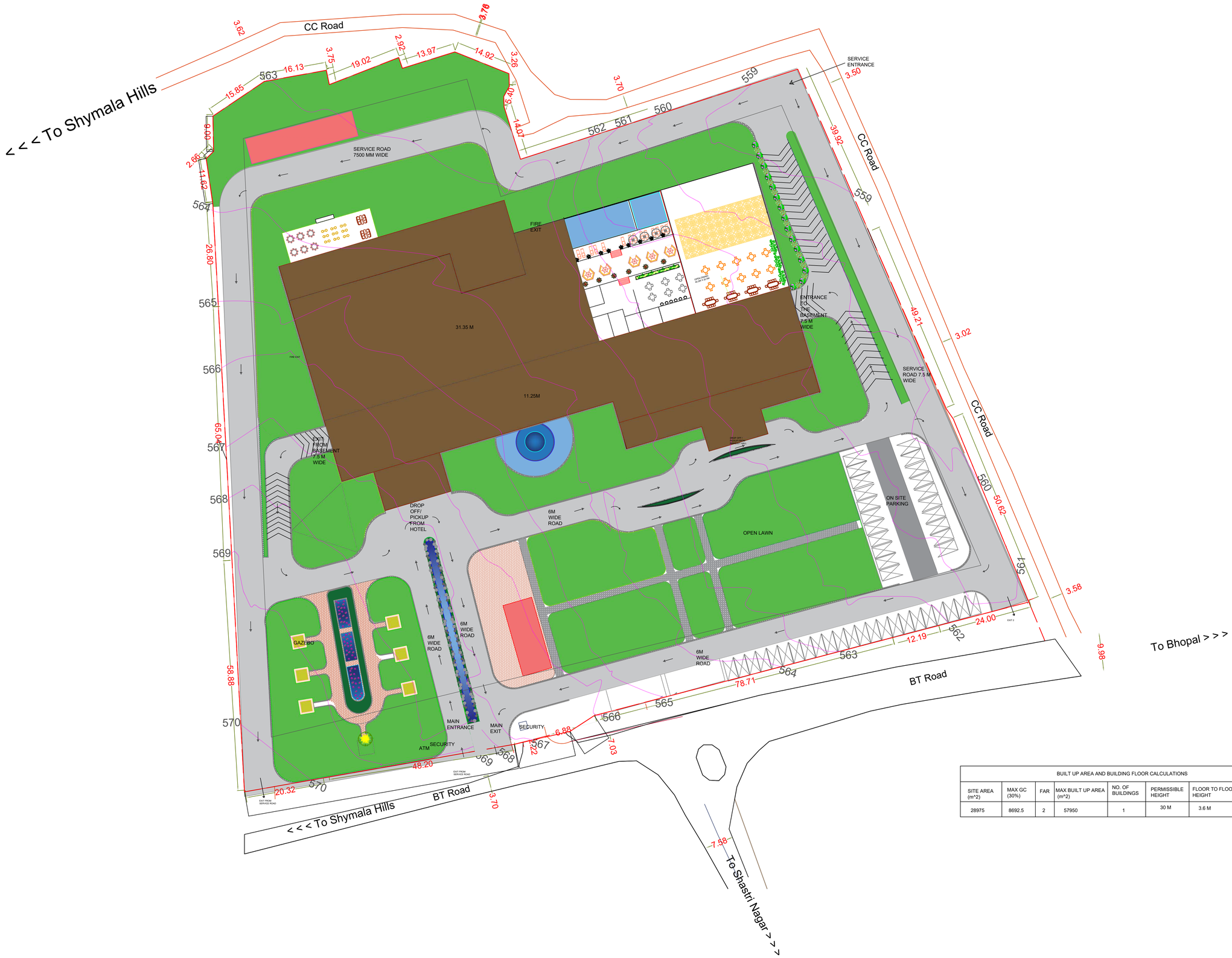
Thesis Guide: Prof. Bulbul Shukla



BUILT UP AREA AND BUILDING FLOOR CALCULATIONS							
SITE AREA (m^2)	MAX GC (30%)	FAR	MAX BUILT UP AREA (m^2)	NO. OF BUILDINGS	PERMISSIBLE HEIGHT	FLOOR TO FLOOR HEIGHT	NO. OF FLOORS
28975	8692.5	2	57950	1	30 M	3.6 M	6

ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SITE PLAN

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

TANMAYEE GAJBHIYE

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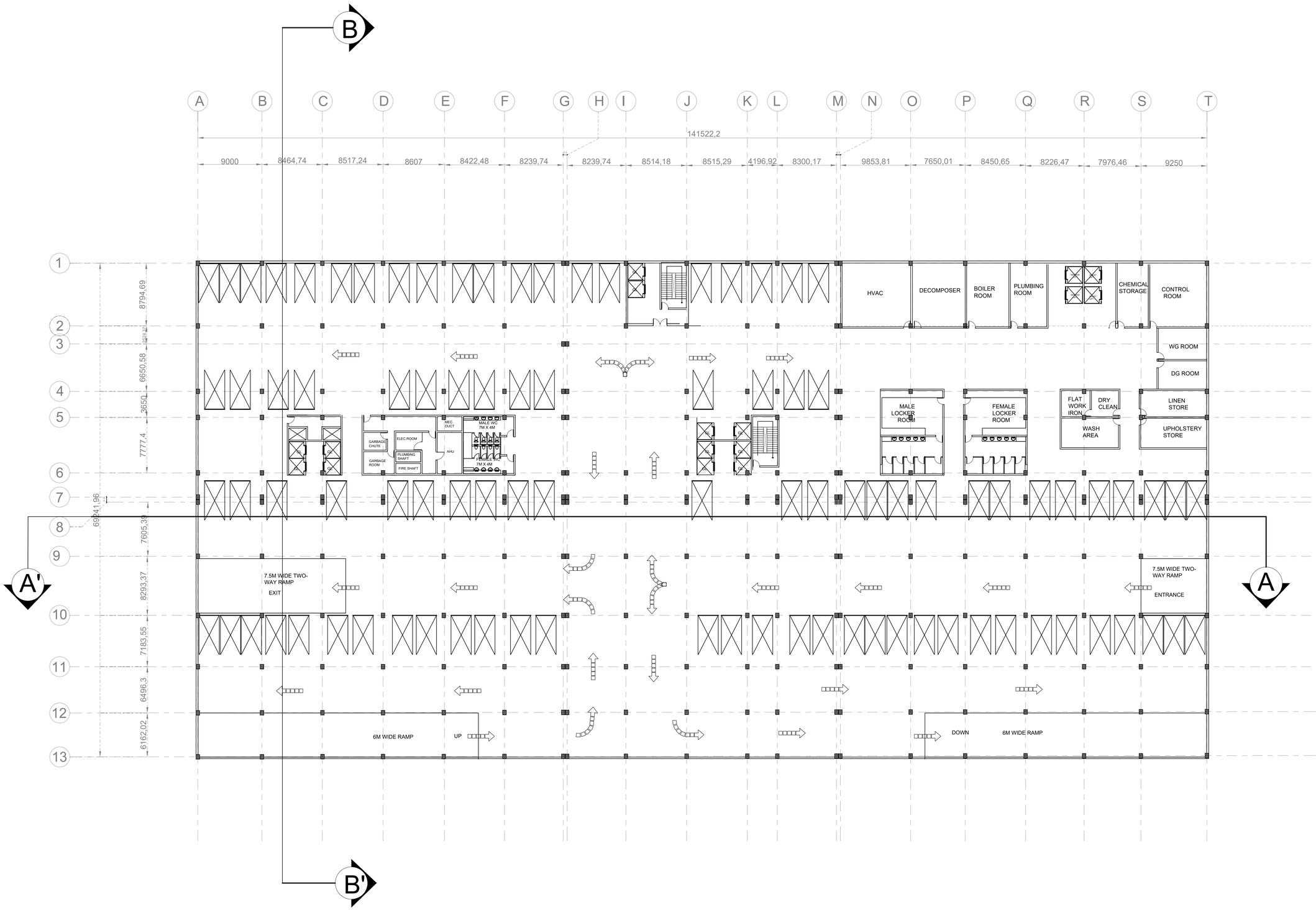
SCALE

1:500

NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT
MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

BASEMENT 1

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

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Sch. No. - 211110201

SCALE

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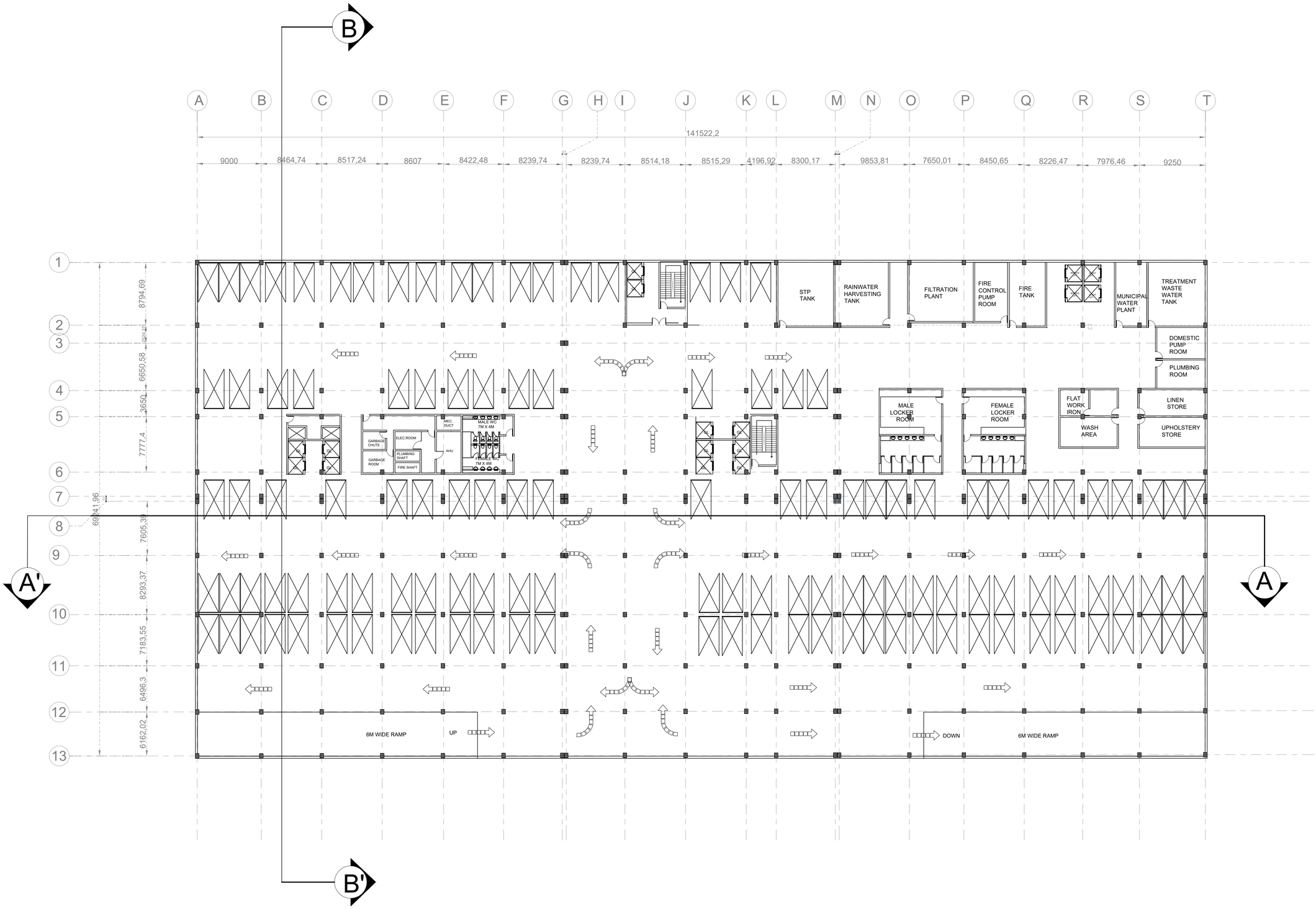
NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT
MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

BASEMENT 2

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

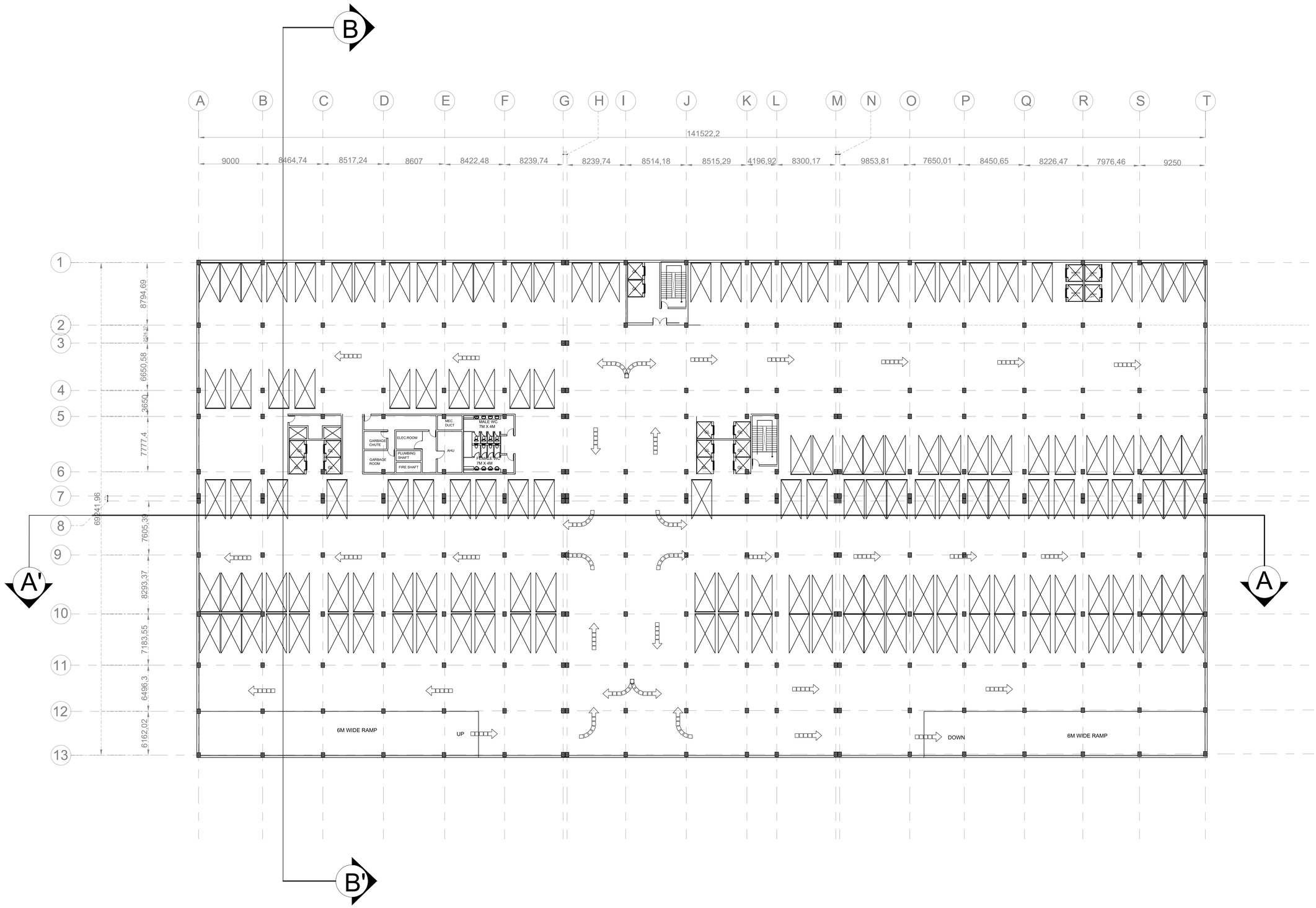
TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

1:200

NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT
MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

BASEMENT 3

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

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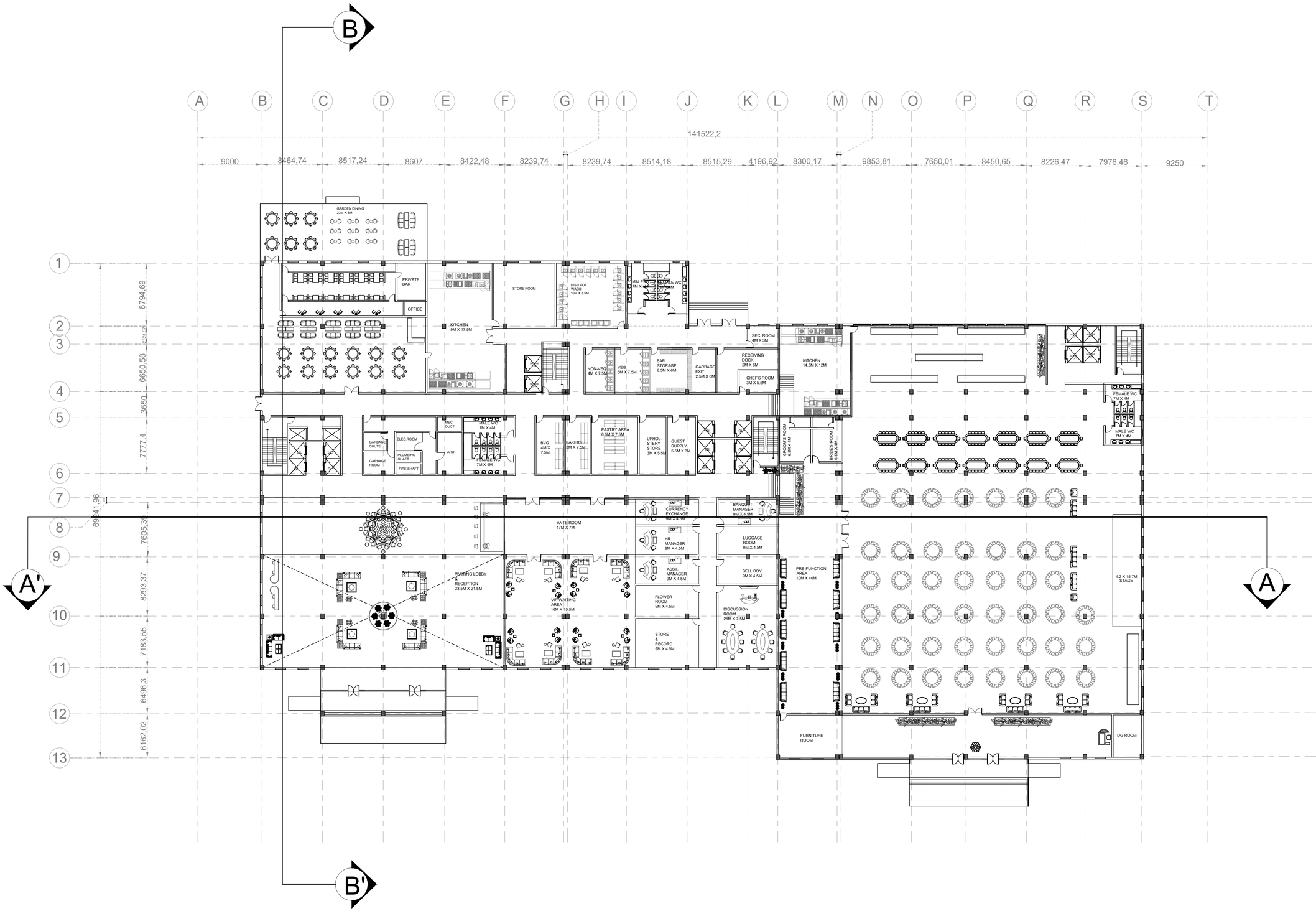
NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

GROUND FLOOR

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

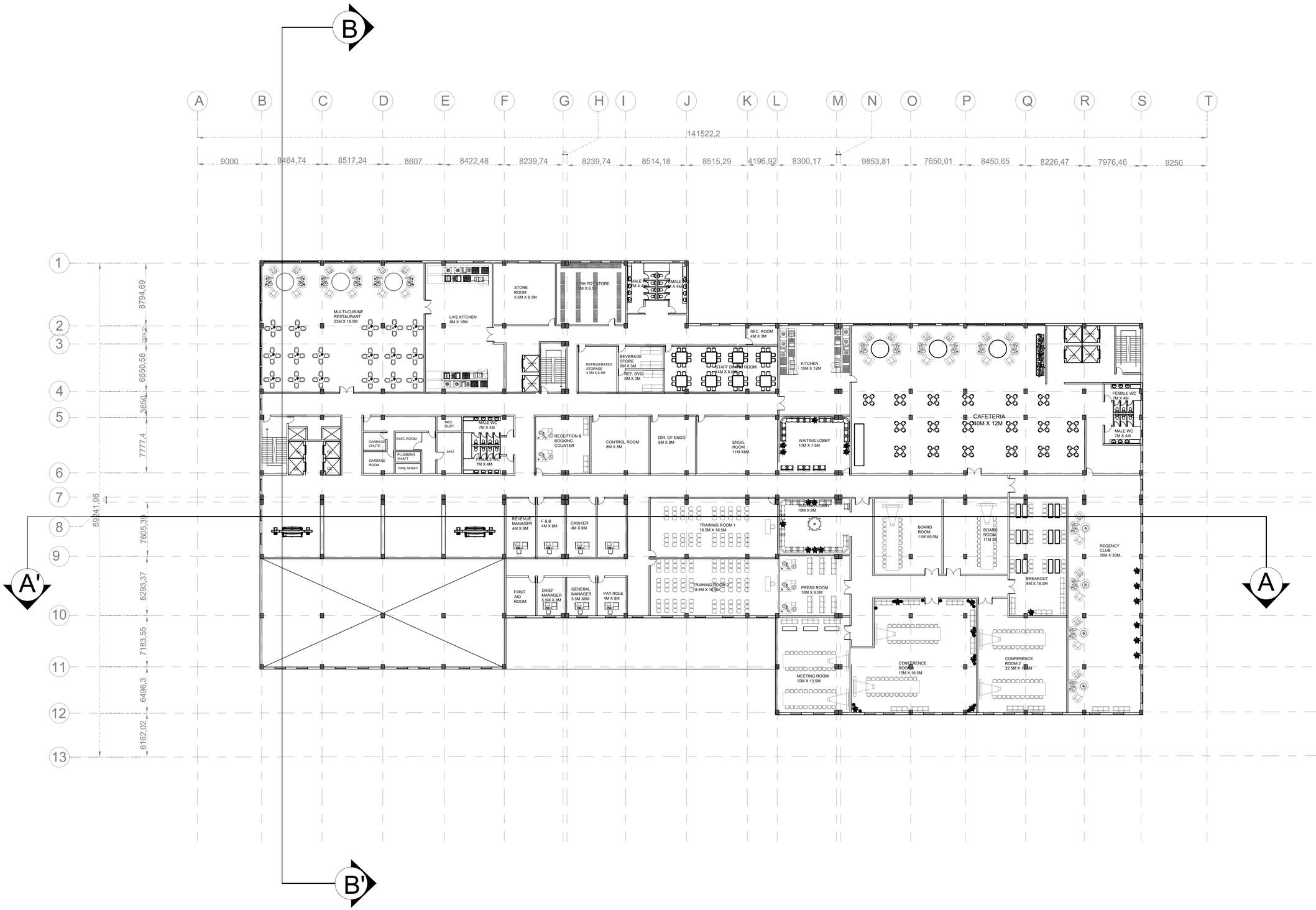
TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

1:200

NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

FIRST FLOOR

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

TANMAYEE GAJBHIYE

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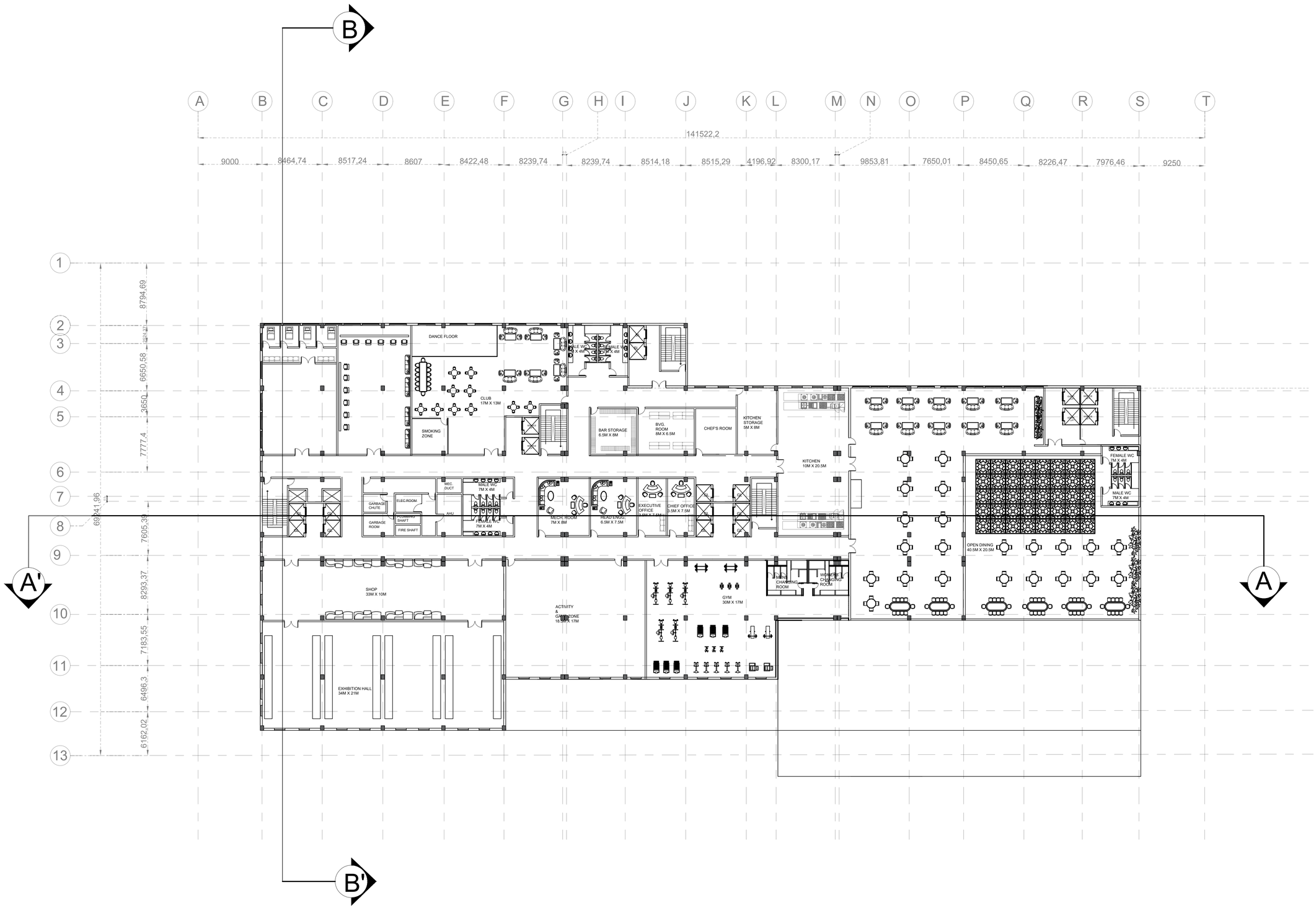
SCALE

1:200

NOTE : ALL DIMENSIONS ARE IN MM



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ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SECOND FLOOR

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DESIGNED BY

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SCALE

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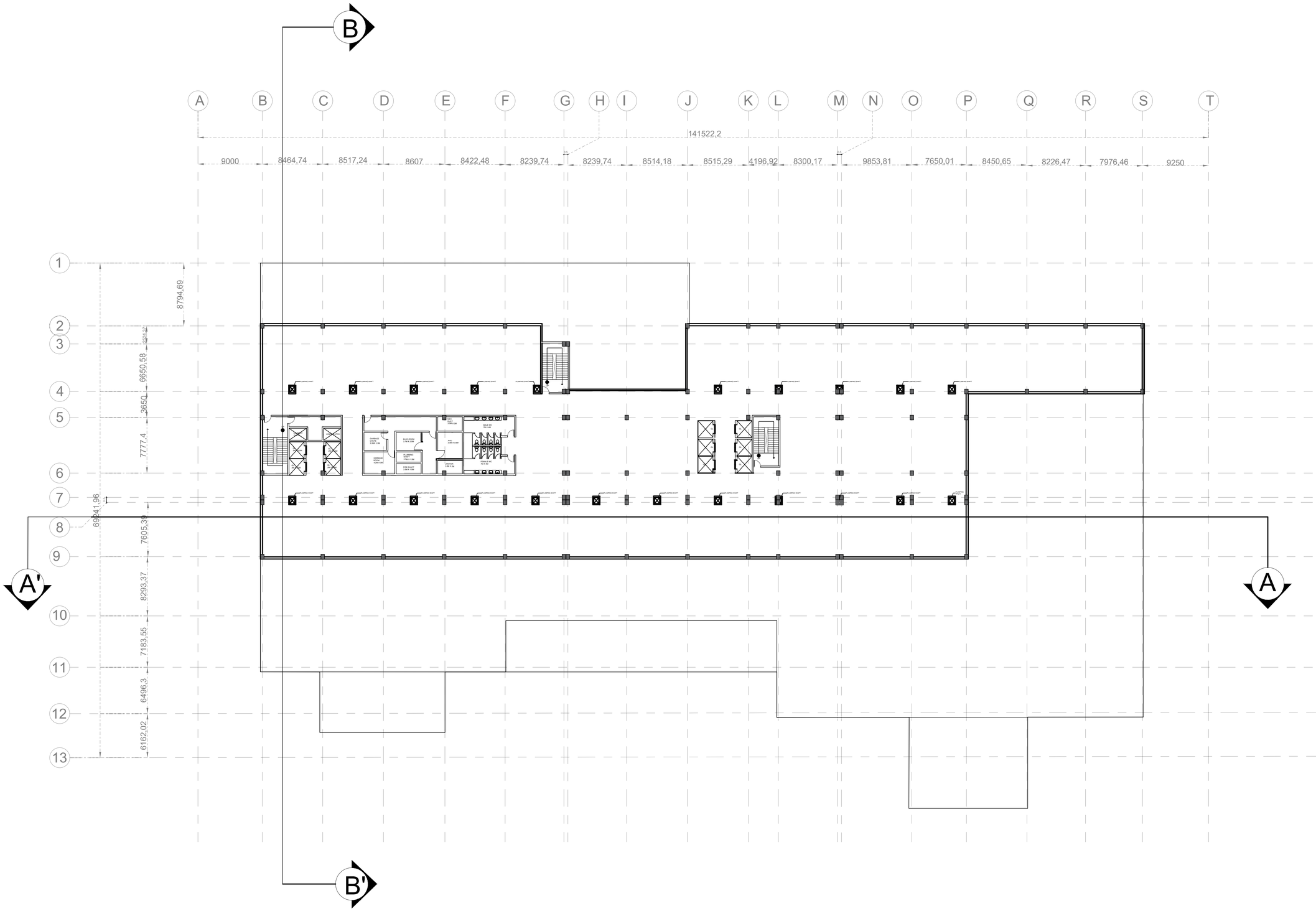

ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SERVICE FLOOR

GUIDED BY

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DESIGNED BY

TANMAYEE GAJBHIYE

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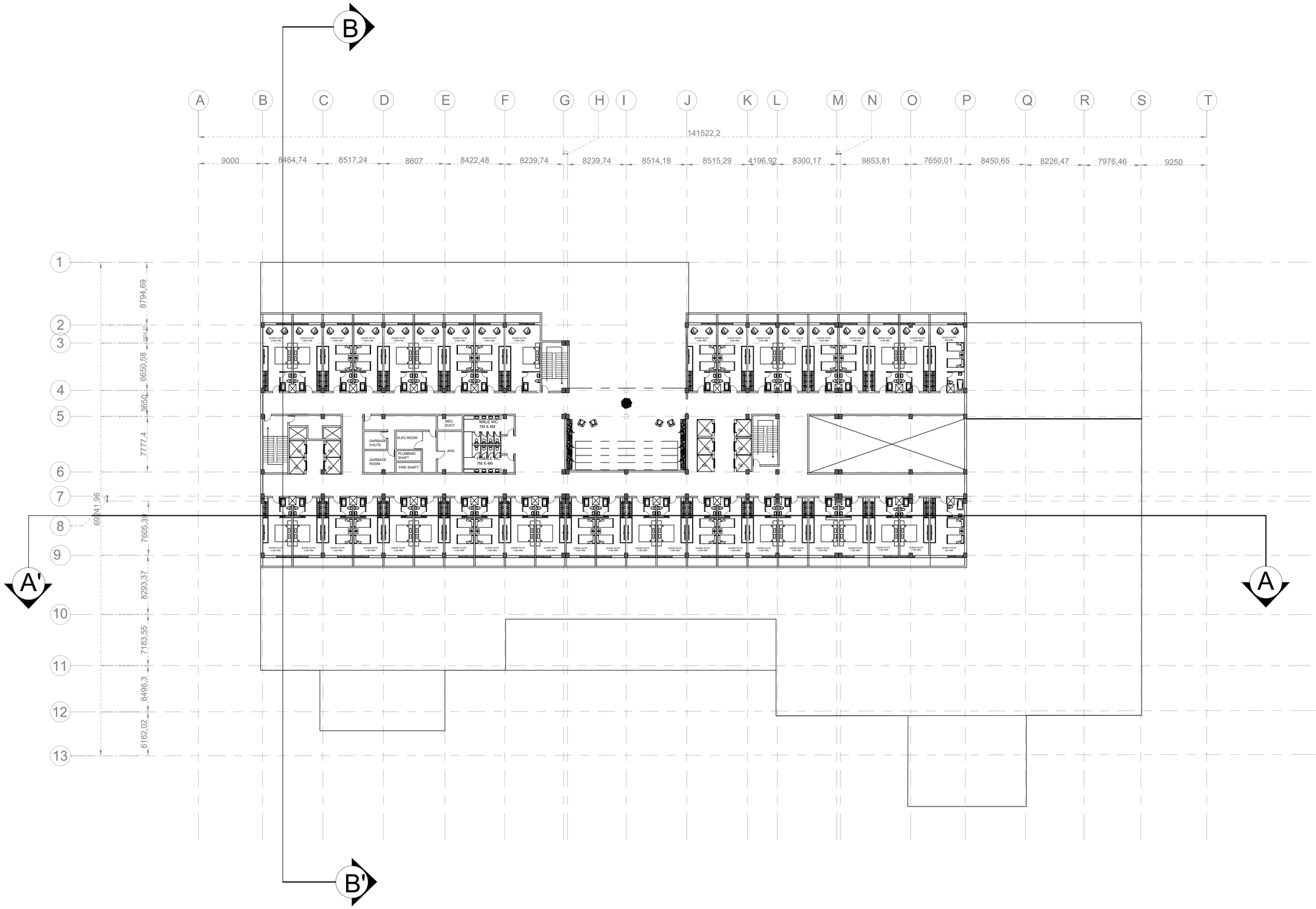
SCALE

1:200

NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

FOURTH FLOOR

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SCALE

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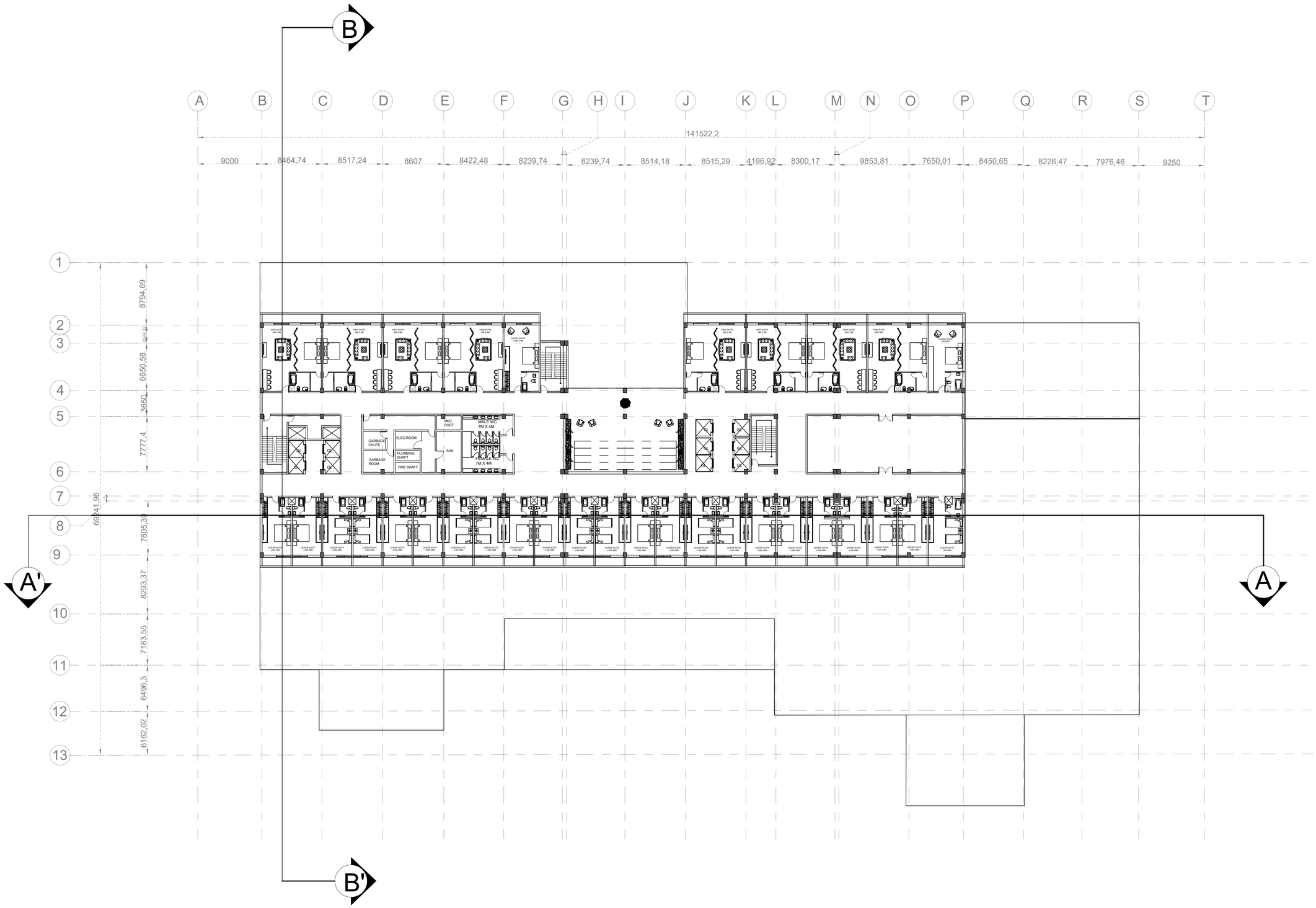

ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

FIFTH FLOOR

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

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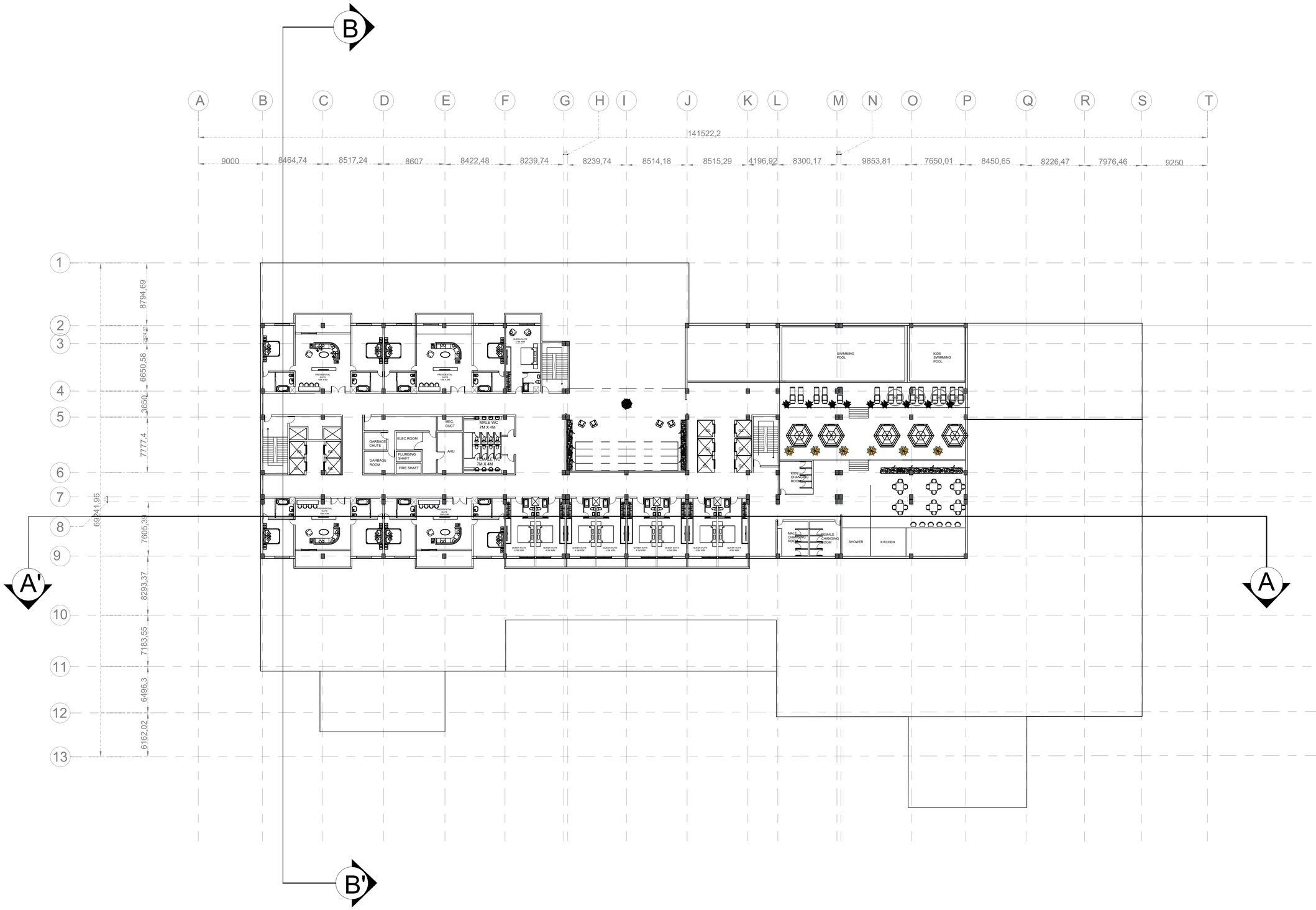
NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SIXTH FLOOR

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

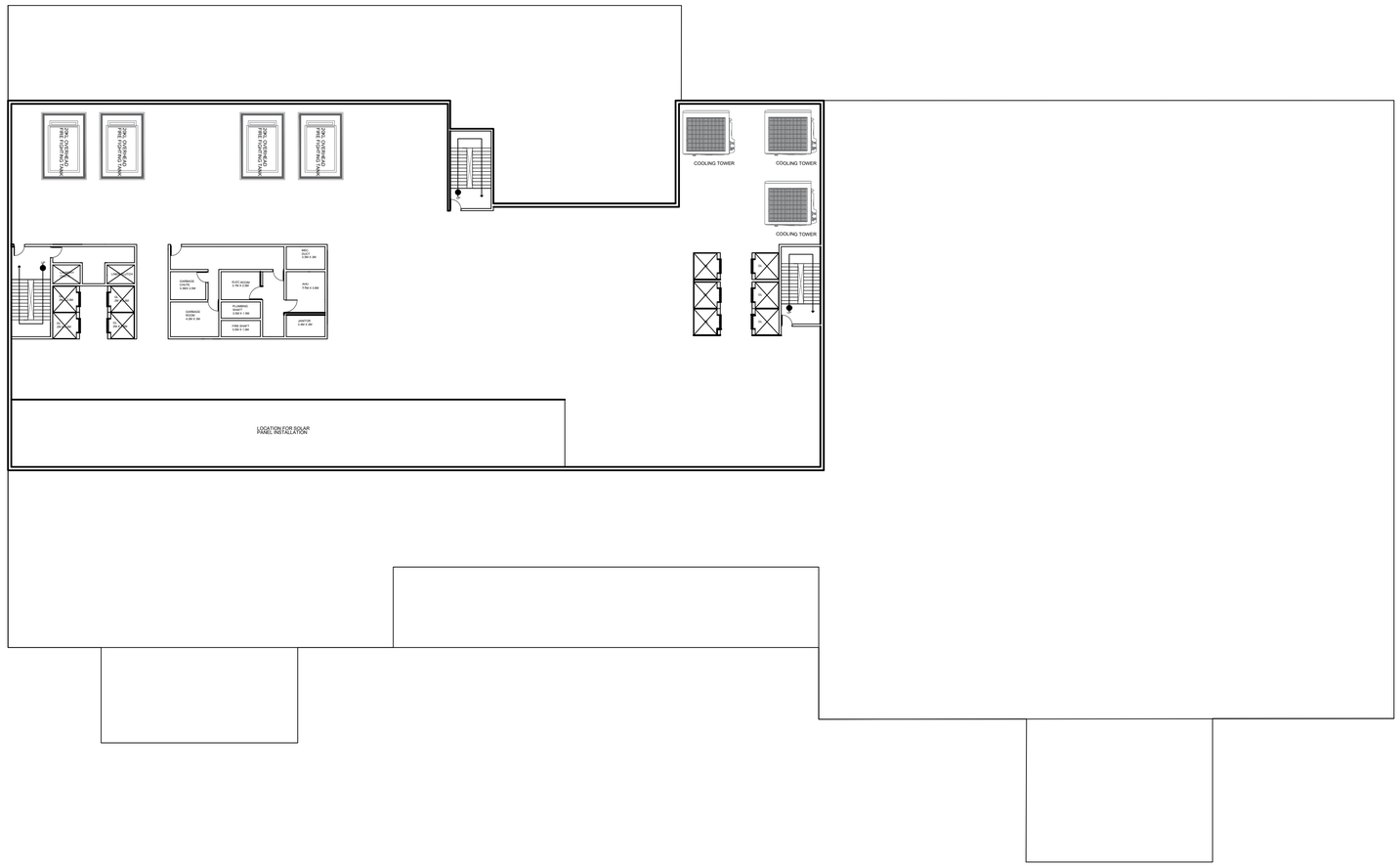
TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

1:200

NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE
AND PLANNING
DEPARTMENT
MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

TERRACE FLOOR

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

TANMAYEE GAJBHIYE

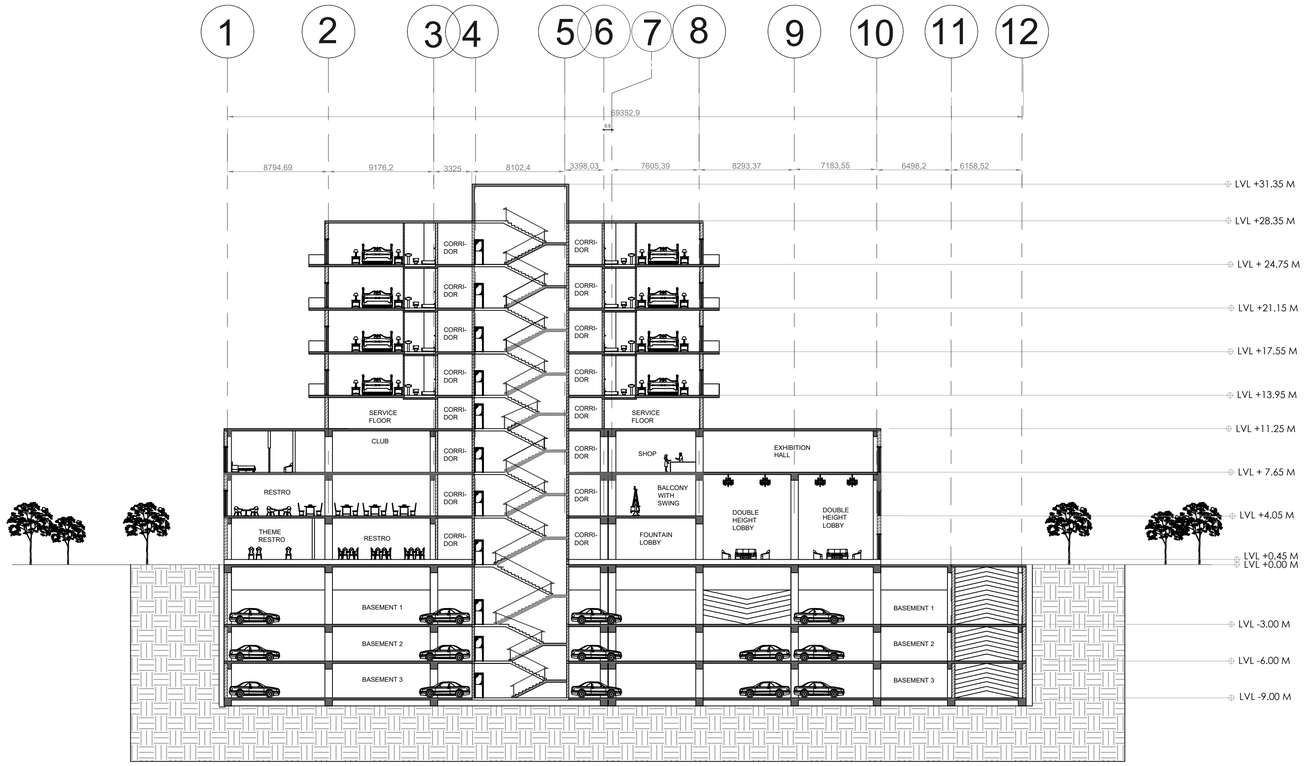
Sch. No. - 211110201

SCALE

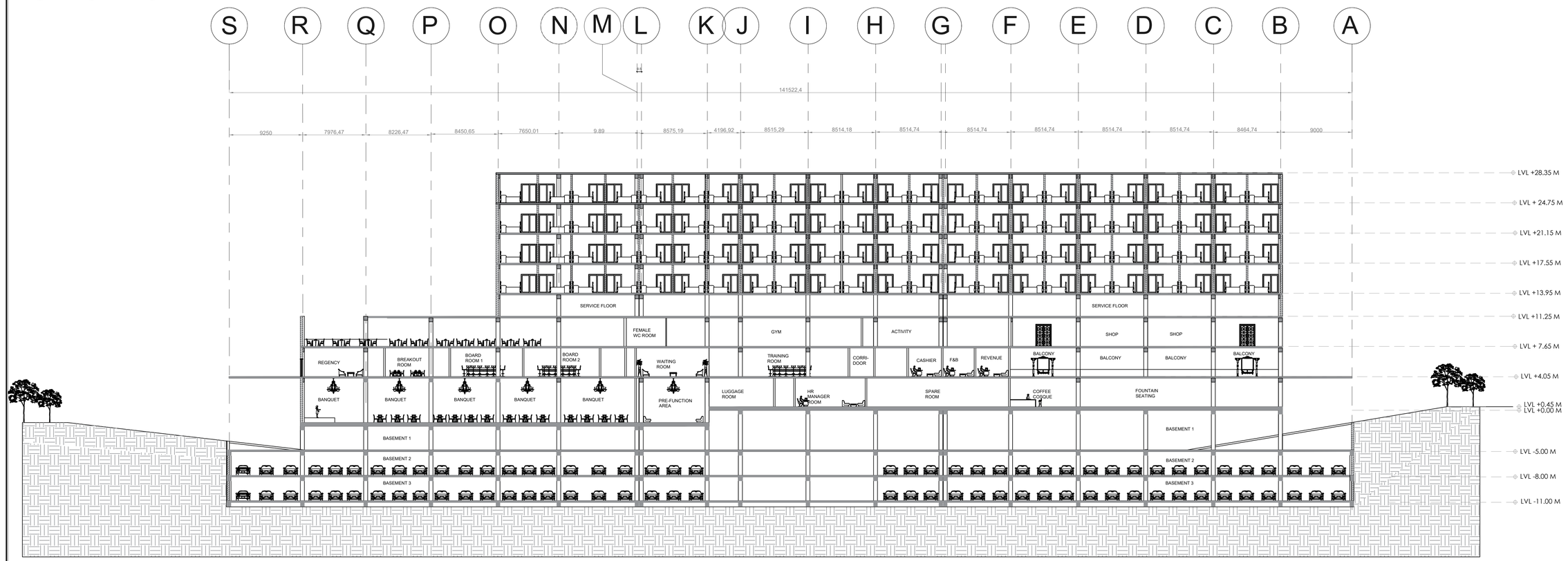
1:200

NOTE : ALL DIMENSIONS ARE IN MM

SECTION BB'



SECTION AA'



ARCHITECTURE AND PLANNING DEPARTMENT
MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SECTIONS

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

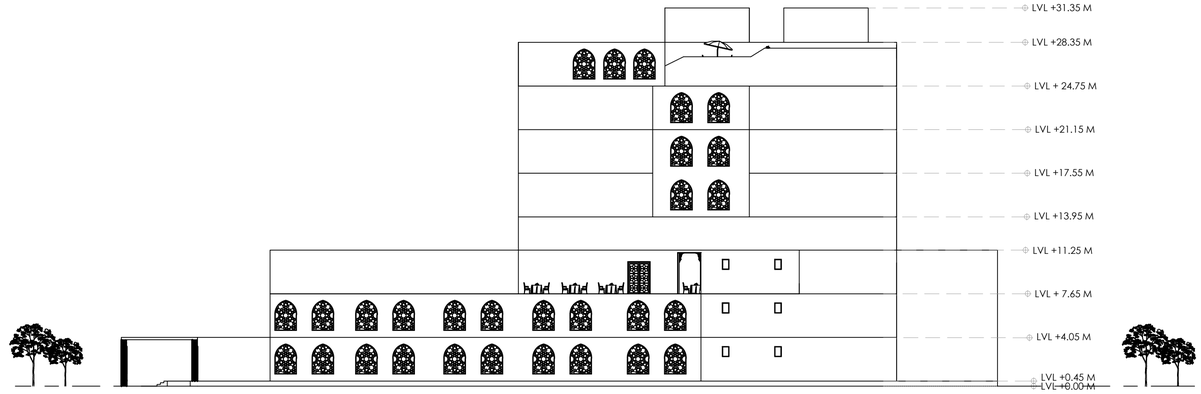
TANMAYEE GAJBHIYE

Sch. No. - 211110201

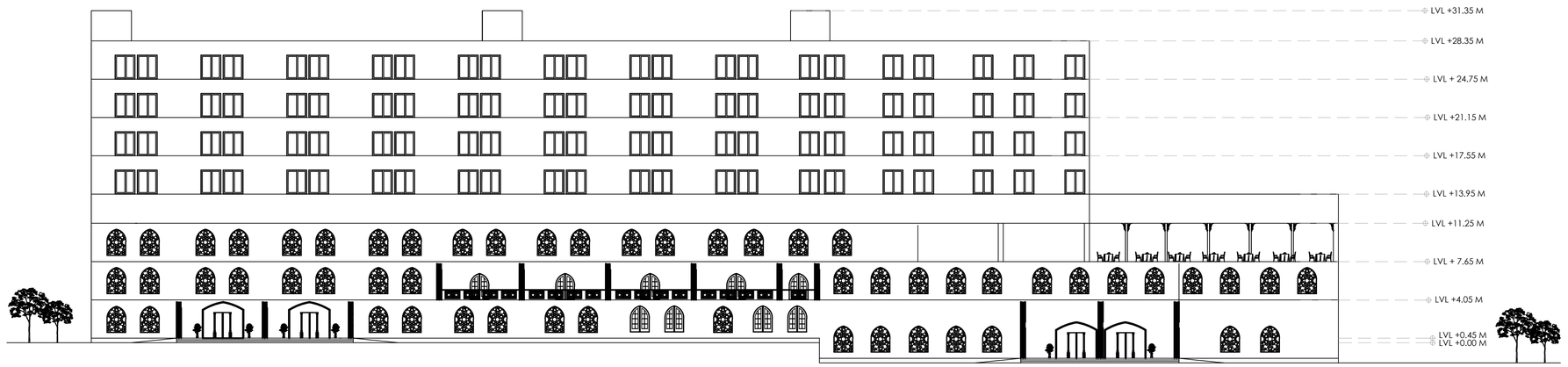
SCALE

1:200

NOTE : ALL DIMENSIONS ARE IN MM



SIDE ELEVATION



FRONT ELEVATION

ARCHITECTURE
AND PLANNING
DEPARTMENT
MANIT BHOPAL

TOPIC

5 STAR
HOTEL
DESIGN

LOCATION

BHOPAL

SHEET TITLE

ELEVATIONS

GUIDED BY

DR. BULBUL
SHUKLA

DESIGNED BY

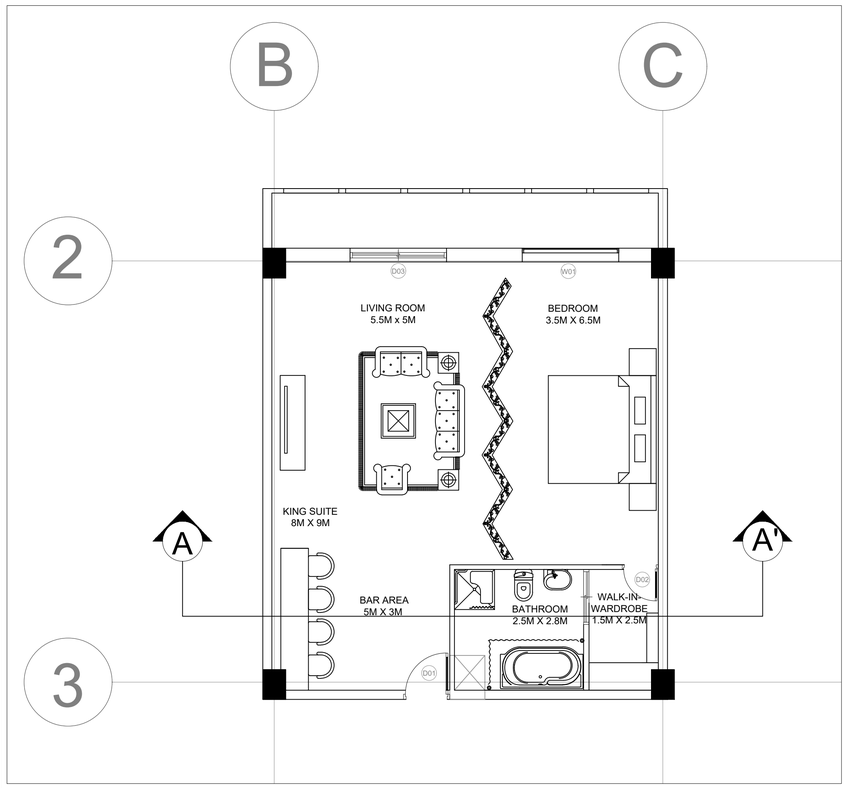
TANMAYEE
GAJBHIYE

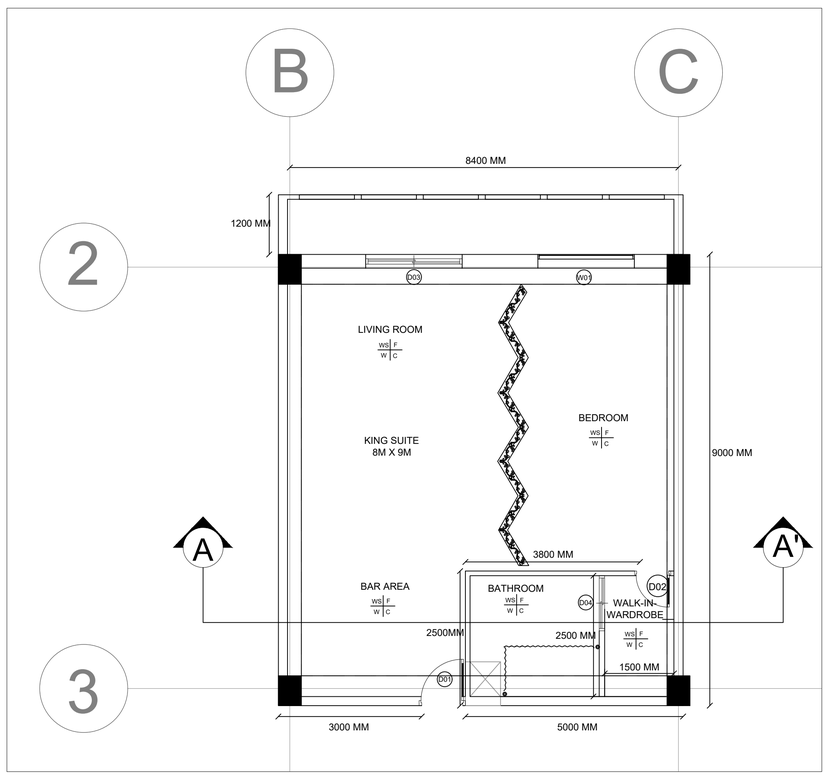
Sch. No. - 211110201

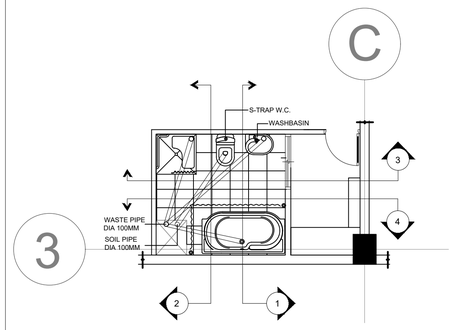
SCALE

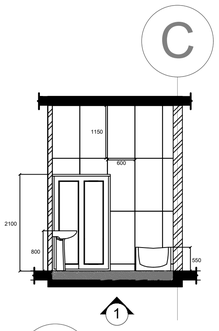
1:200

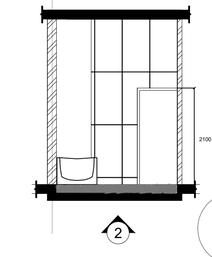
NOTE : ALL DIMENSIONS ARE IN MM

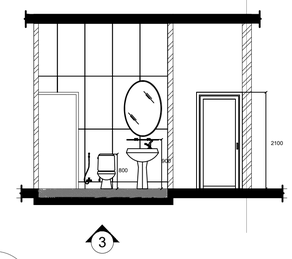


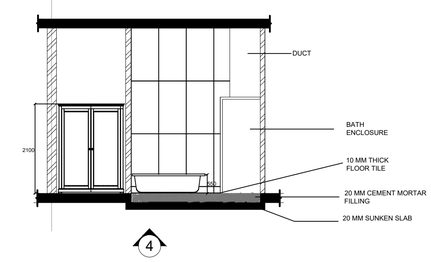


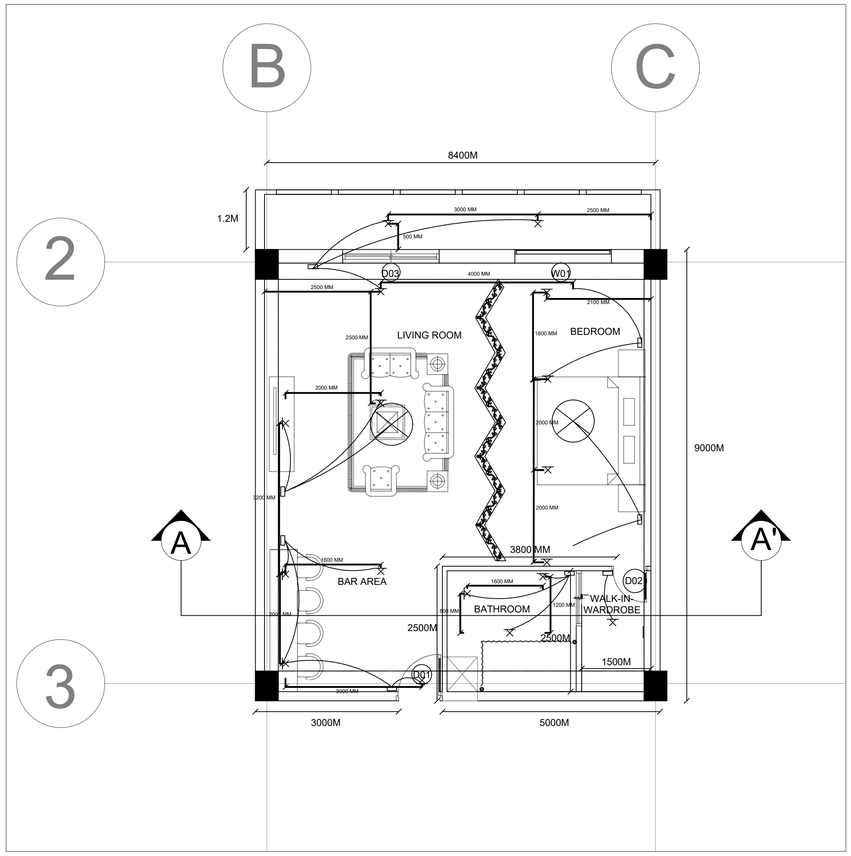


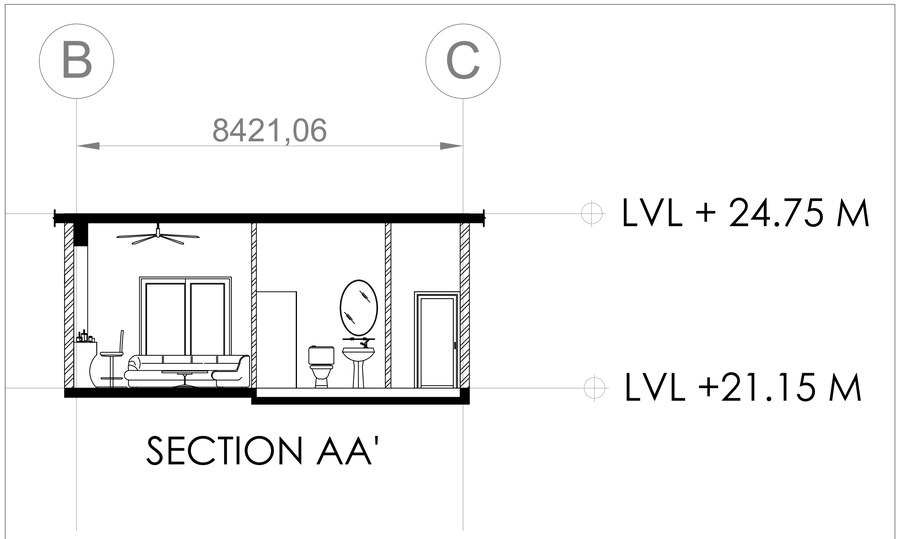












SECTION AA'

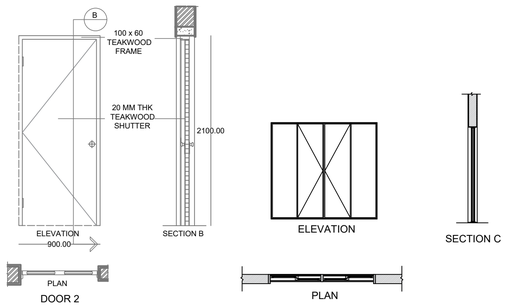
SCHEDULE OF OPENING

S.NO.	NAME OF OPENING	LINTEL	SILL	HEIGHT	WIDTH	NO.	SPECIFICATION
1	D01	2100	00	2100	900	1	1 PANEL WOODEN DOOR
2	D02	2100	00	2100	650	1	1 PANEL WOODEN DOOR
3	D03	2100	00	2100	700	1	SLIDING DOOR
4	D04	2100	00	2100	800	1	SLIDING DOOR
5	W01	2100	00	2100	2250	2	DOUBLE SLIDING DOOR

FIXTURES

S.NO.	APPLIANCES / FIXTURE OPENING	BRAND
1	WASH BASIN	JAGUAR
2	WATER CLOST	JAGUAR
3	OVERHEAD SHOWER	JAGUAR
4	TAP	JAGUAR
5	BATHTUB	JAGUAR

	TILE	
1	TERRAZZO TILE	ORIENTBELL
	CEILING LIGHT	
1	RECESSED	PHILIPS



ARCHITECTURE AND PLANNING DEPARTMENT
MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

WORKING DRAWING- KING SUITE

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

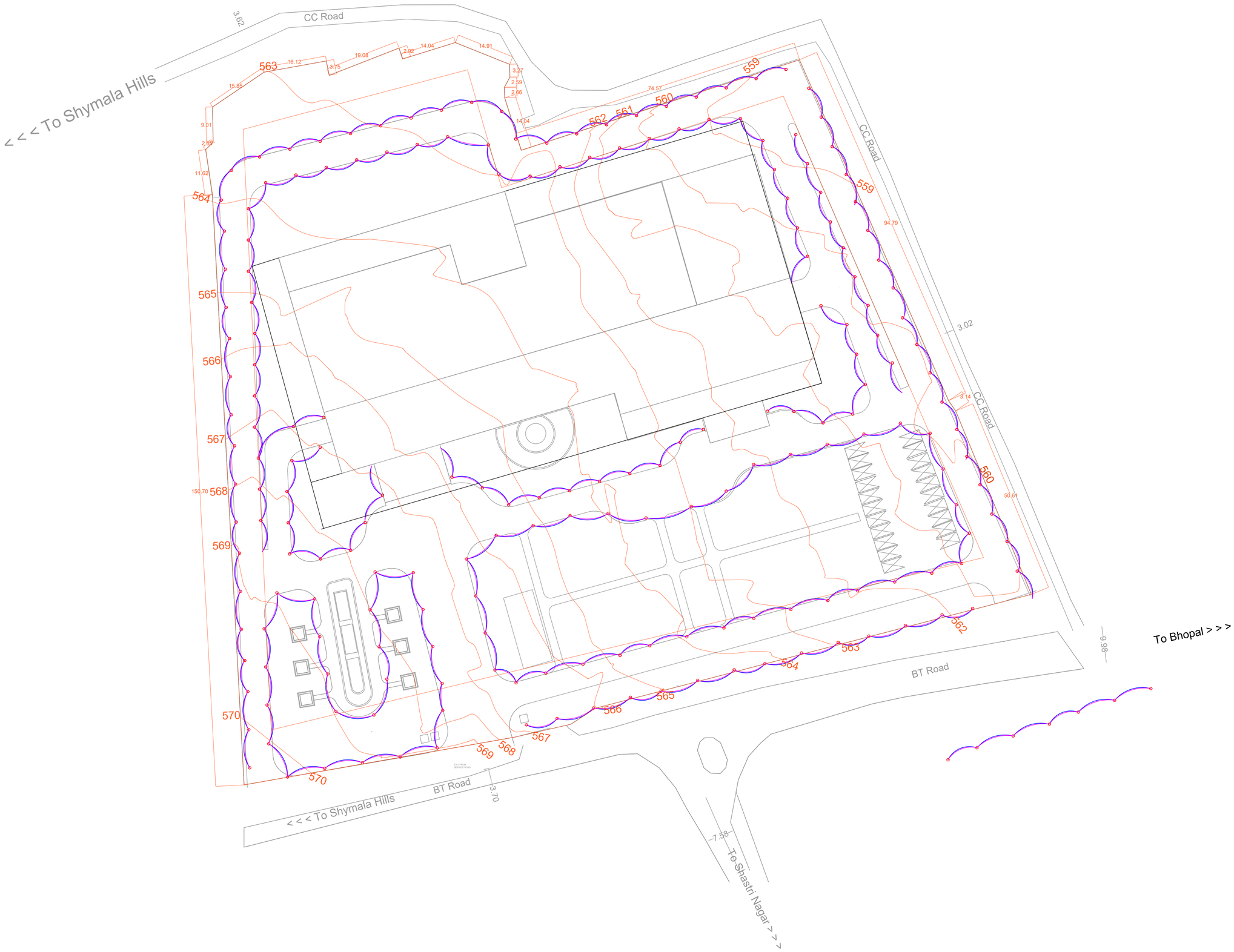
TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

1:200

NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SITE ELECTRICAL PLAN

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

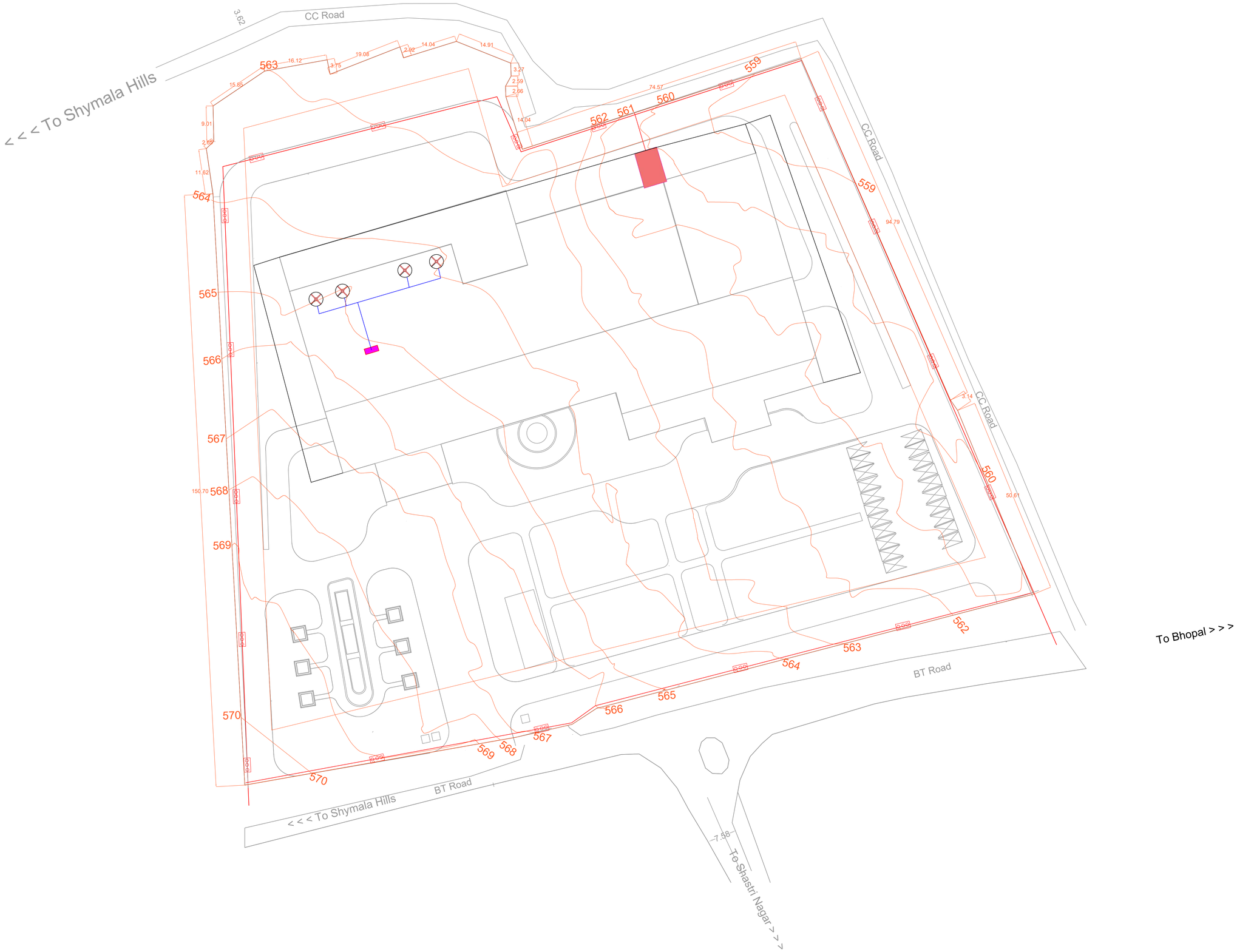
TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

1:500

NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SITE FIRE FIGHTING PLAN

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

1:500

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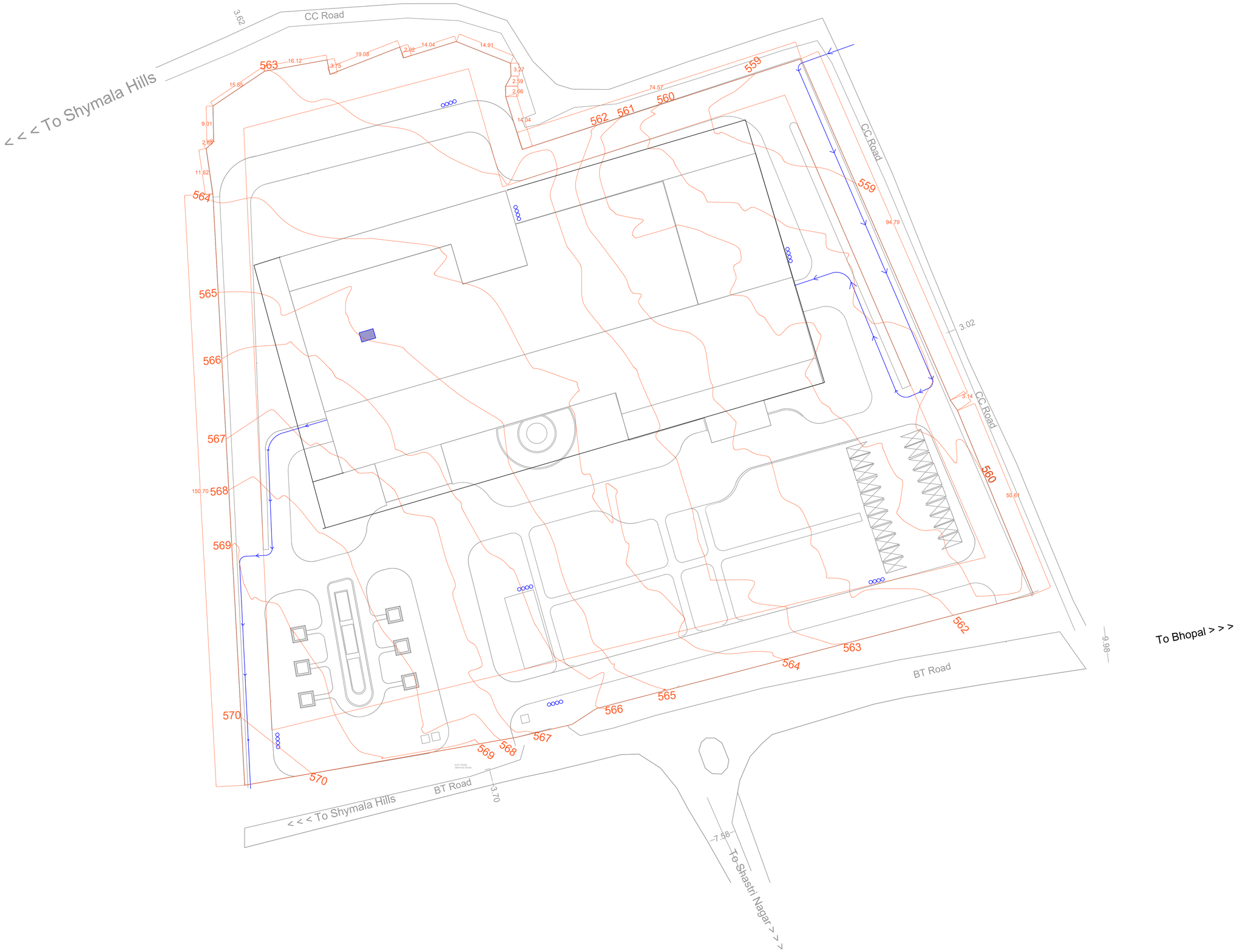


ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SITE WASTE MANAGEMENT PLAN

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

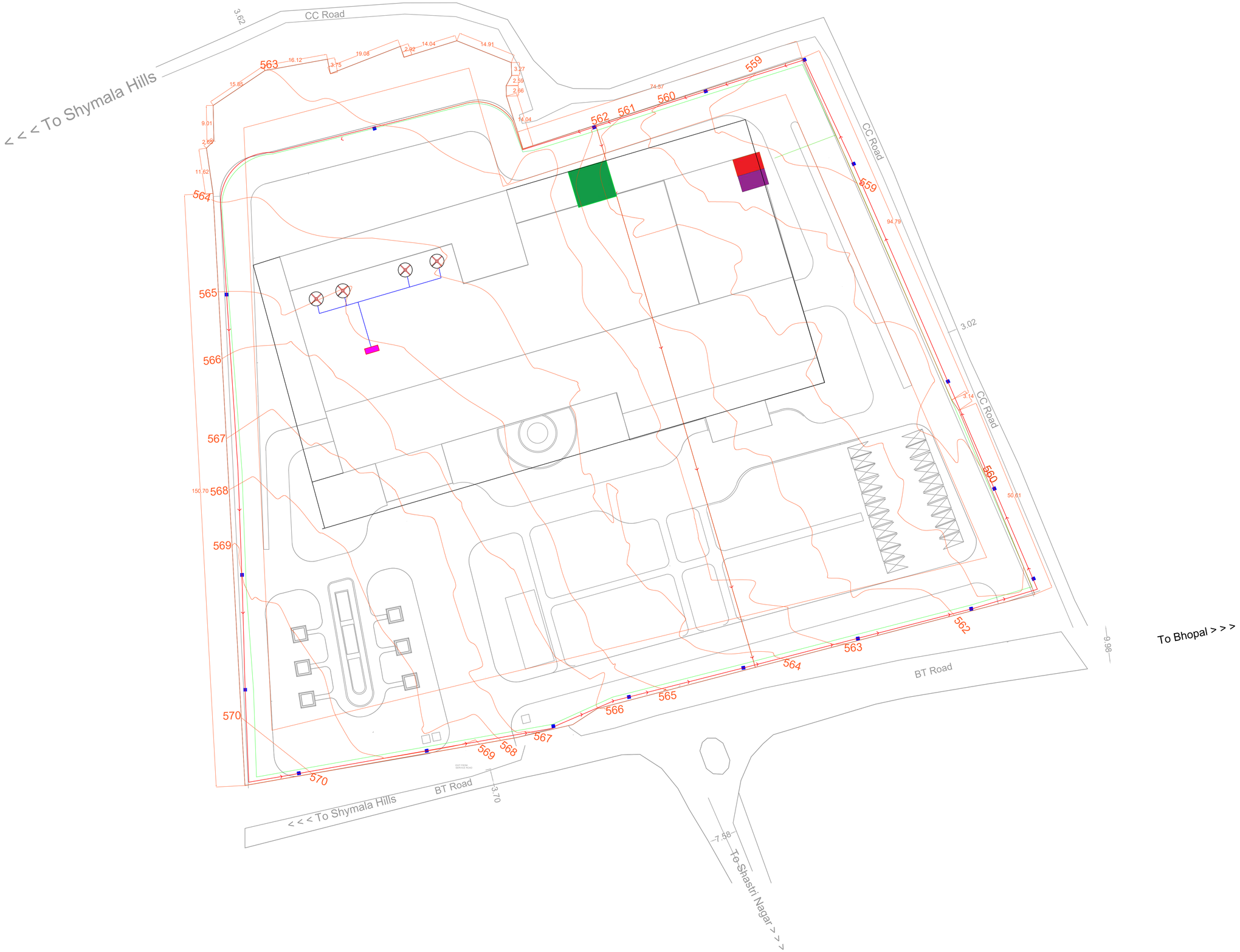
TANMAYEE GAJBHIYE

Sch. No. - 211110201

SCALE

1:500

NOTE : ALL DIMENSIONS ARE IN MM



ARCHITECTURE AND PLANNING DEPARTMENT MANIT BHOPAL

TOPIC

5 STAR HOTEL DESIGN

LOCATION

BHOPAL

SHEET TITLE

SITE WATER SUPPLY & SEWAGE PLAN

GUIDED BY

DR. BULBUL SHUKLA

DESIGNED BY

TANMAYEE GAJBHIYE

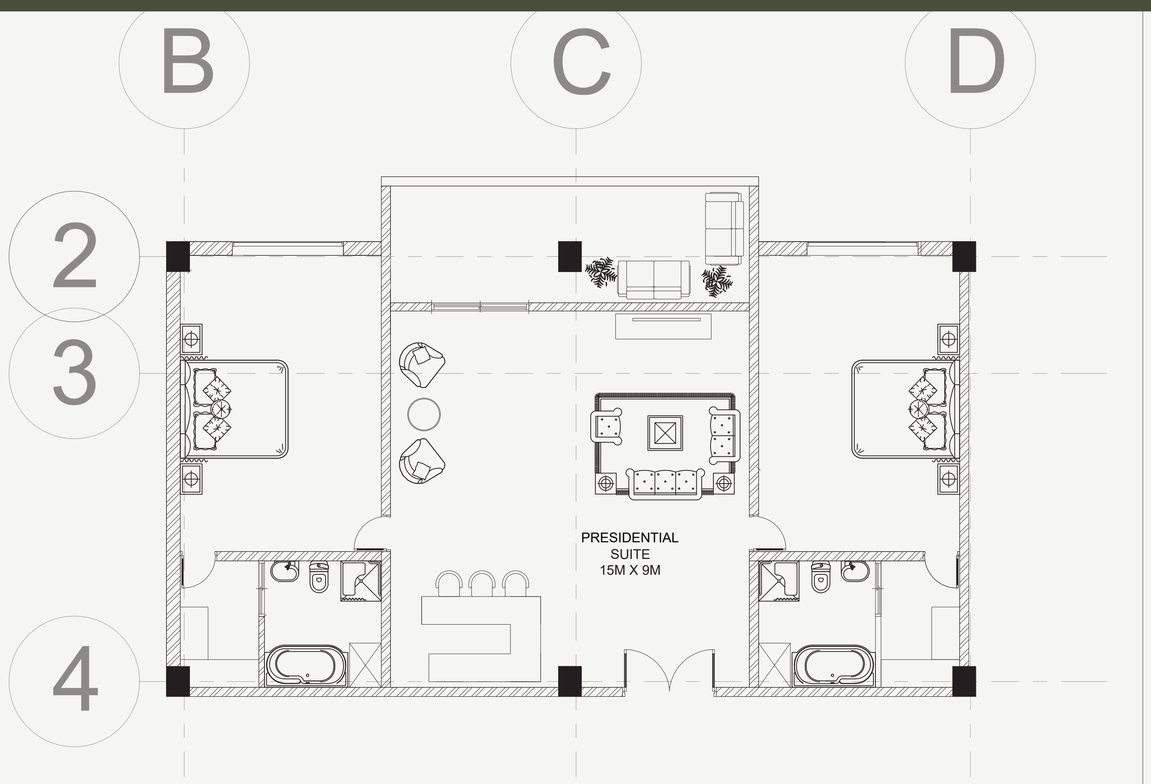
Sch. No. - 211110201

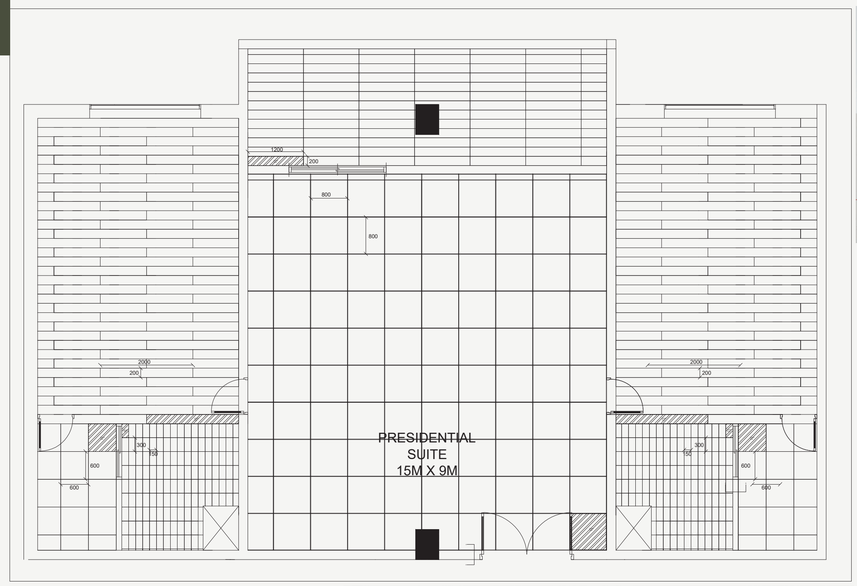
SCALE

1:500

NOTE : ALL DIMENSIONS ARE IN MM

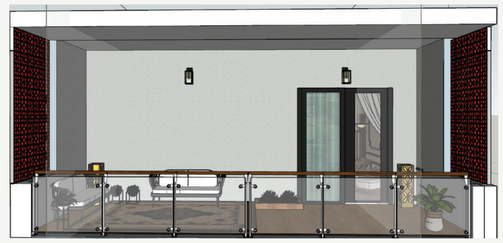
ELECTIVE- INTERIOR DESIGN

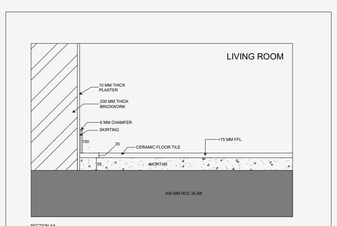




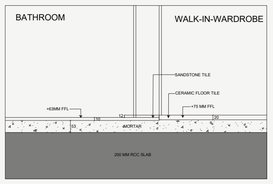






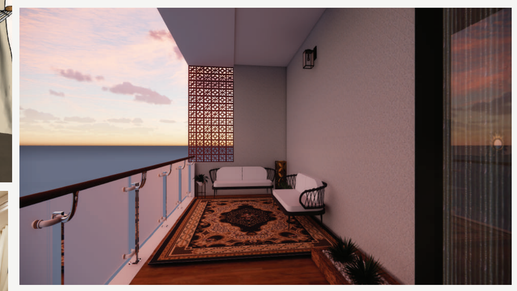


SECTION AA

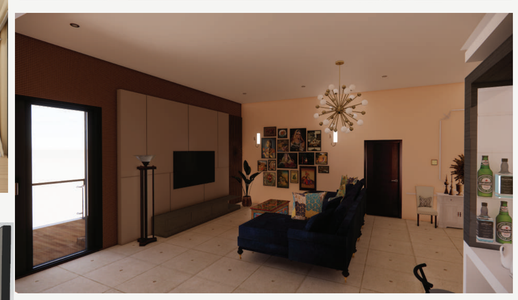


SECTION AA











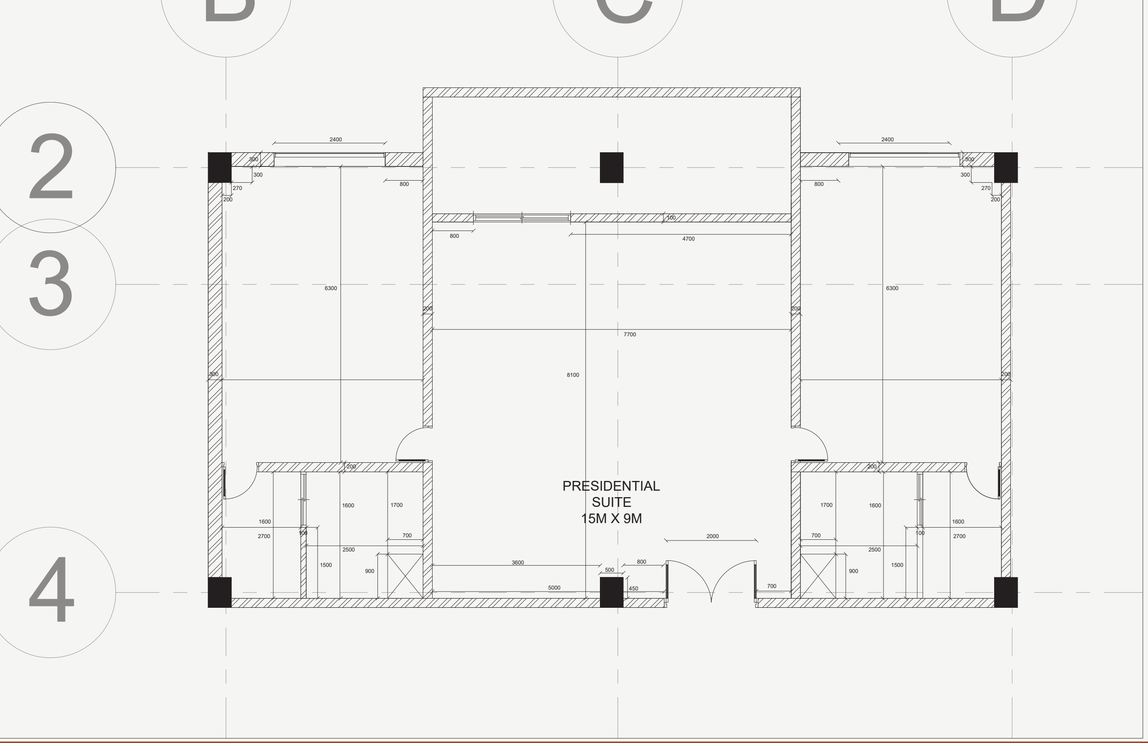












REVIEW- 4

5-STAR HOTEL, BHOPAL

TANMAYEE GAJBHIYE | 211110201 | 9th SEMESTER
THESIS GUIDE- DR. BULBUL SHUKLA

ELECTIVE - LANDSCAPE DESIGN

5- STAR HOTEL

FLOWERING TREE						
Sr. no.	Local Name	Botanical Name	Description	Height & Spread	Legend	Image
1.	Parijat / Harsingar	Nyctanthes arbor-tristis	White-orange flowers leaves are rough and opposite.	3–10 m height, 3–6 m spread		
2.	Silver Oak	Grevillea robusta	Orange-yellow flowers, tall and narrow form.	18–35 m height, 5–8 m spread		
3.	Bougainvillea	Bougainvillea glabra / Bougainvillea spectabilis	vibrant bracts - pink	3–12 m depending on pruning		
4.	Bottlebrush	Callistemon citrinus	Tree/shrub with bright red brush-like flowers narrow leaves with citrus scent.	3–10 m height, 3–5 m spread		
5.	Champa / Frangipani	Plumeria alba / Plumeria rubra	Thick branches and highly fragrant white coloured flowers.	3–8 m height, 3–6 m spread		

FRUIT BEARING TREES						
Sr. no.	Local Name	Botanical Name	Description	Height & Spread	Legend	Image
1.	Jamun / Jambul	Syzygium cumini	Evergreen large fruit dense canopy, glossy leaves, Excellent shade tree.	10–40 m height, 10–20 m spread		
2.	Aam	Mangifera indica	Orange-yellow flowers, tall and narrow form.	18–35 m height, 5–8 m spread		
3.	Imli	Tamarindus indica	Large evergreen tree with feathery l eaves and edible tangy fruit pods.	12–25 m height, 12–15 m spread		

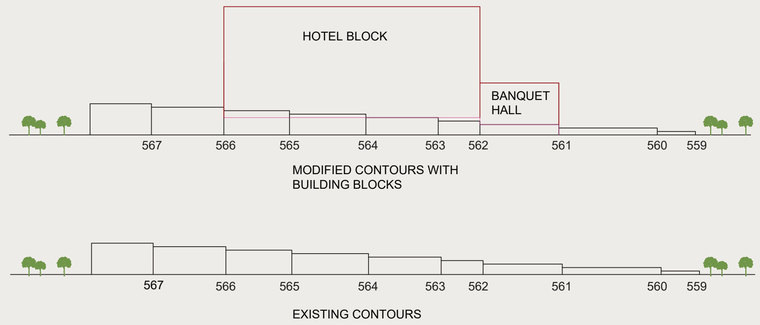
SHRUBS						
Sr. no.	Local Name	Botanical Name	Description	Height & Spread	Legend	Image
1.	Dwarf Pink Ixora	Ixora coccinea ‘Dwarf Pink’	Compact shrub with clusters of small pink flowers; blooms year-round.	0.5–1 m height, 0.5–1 m spread		
2.	White Trailing Lantana	Lantana montevidensis ‘White’	Low-growing trailing plant with white flower clusters; drought-tolerant.	0.3–0.6 m height, spreads 1–2 m		
3.	Mexican Petunia	Ruellia brittoniana	Hardy shrub with purple funnel-shaped flowers; blooms daily.	0.6–1.2 m height, 0.5–1 m spread		
4.	Trailing Lantana / Purple Trailing Lantana	Lantana montevidensis	Purple flower clusters very hardy and sun-loving.	0.3–0.6 m height, spreads 1–2.5 m		
5.	Bermuda grass	Cynodon dactylon	Fine-textured, fast-spreading lawn grass with excellent durability.	5–15 cm height, spreads rapidly through runners		



PAVEMENT MATERIALS				
Sr. no.	Location	Material Name	Material Description	Image
1.	Roads	Cobblestone	Durable, provides grip. Permeable, rustic look,	
2.	Parking	Interlocking Strong for heavy Concrete Paving Blocks (ICPB) - Grey + Green	Strong for heavy loads Aesthetically versatile Reduces stormwater runoff	
3.	Gravel path beside roads	Bougainvillea glabra / Bougainvillea spectabilis	Natural river pebbles aesthetics, and to soften the boundary	
4.	Landscape Pathway / Garden Walkway	Wood Block Pavers with Pebble Infill	Wood block pathway with pebble joints—rustic, premium, and well-draining.	
5.	Along the entrance road	Circular Stone paver	Circular stone pads over pebble water	

WATER FEATURES				
Sr. no.	Location	Material Name	Material Description	Image
1.	Heritage Gazibo Walkway/ Pathway Edge	Rectangular Lotus Pond with Black Stone Edging	Rectangular black-edged lily pond creating a calm, elegant accent.	
2.	Entrance Landscape	Multi-tier Stone Fountain	Lit stone fountain creating a luxurious, romantic garden focal point.	
3.	Waterbody Pathway at the entrance	Circular Stone Stepping Pads + Pebble Waterbed	Circular stone pads over pebble water	

SITE SECTION WITH CONTOURS



REVIEW 4

Tanmayee Gajbhiye|211110201|9th Semester
Thesis Guide- Dr. Bulbul Shukla