

Sr.no. 6

PART I

DOCUMENTATION AND PROVISION OF GUIDELINES FOR DADAR PARSI COLONY, MATUNGA CENTRAL, HINDU COLONY AND KHODADAD CIRCLE PRECINCT

SUBMITTED TO
MUMBAI METROPOLITAN REGIONAL HERITAGE COMMITTEE

PREPARED BY
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MIS - 2660

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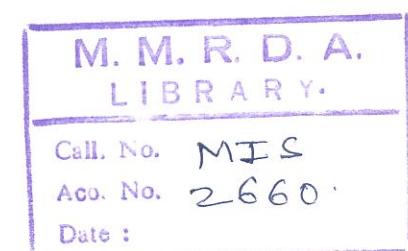
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1

BACKGROUND AND INTENTIONS

On June 1st 1995 the Development Control Regulation No. 67 regarding conservation of listed buildings, areas, artefacts, structures and precincts of historical, aesthetic, architectural and cultural value, came into force.

As per this regulation, Five Gardens and some area around came under the Heritage Grade III regulation, which encompasses buildings and precincts of importance for 'townscape, architectural aesthetic or sociological interest. A larger area around it was also proposed to come under this regulation, for which, however the boundaries were not set. This was done to arrest further physical deterioration of the precinct. It was understood that the urban design tools and mechanisms, which controlled the development of the precinct, needed to be reviewed and re-framed to protect and preserve the 'unique features and attributes' and also stop ongoing deterioration of the physical form.

At the outset we should recognise that this is a residential area which is composed of a physical fabric (comprising of domestic buildings and institutions) and the inhabitants. A study for conserving the precinct should include both these aspects.

This phase of the study would focus on identifying and documenting certain aspects which determine, control and influence the physical form and the community.

The study will be in five parts, the first four parts concentrate on the physical fabric, its rupture and the causes for it. The precinct will be mapped for various parameters, which will be indicative of the disruptive transformations.

1. The initial part will delineate the area of study and analyse its relationship with the city in relation to location and its linkages. The effect of these and city landuse policy on the activity of the area will also be established.
2. Historically this area was plotted and sold to various owners. However the patterns of ownership has changed bringing in a lot of changes in the precinct which would be established.
3. The next part would zoom into the physical characteristics of the precinct. It would deal with bylaws that govern the physical form and the nature of the physical fabric itself. However it will mainly confine itself to the study of the domestic fabric.
4. The urban spaces with there activities will be studied in this part.
5. The last part of the study will deal with understanding of the community, its perception and its structure.

The findings of the above could be used to come to conclusions, from where strategies to formulate guidelines could be derived.

2

RELATION WITH THE CITY

2.1 THE DIALOGUE WITH THE CITY

Built in pre-independent India, this area formed a part of the suburban developments for the working middle class population. It was primarily a plotted residential scheme with institutional and commercial developments for the residents. It was modelled on the paradigm of the garden suburb in Britain, (fig1) making it a tranquil, residential neighbourhood. The urban fabric of this neighbourhood consists of low-rise low density developments with tree-lined streets, public gardens and urban squares which form a significant core. As the suburban developments have moved northward, this area has come within limits of the inner core of Mumbai (plate 1). This has led towards a number of contradictions to its earlier nature :

1. In case of movement systems, this area from being a terminal point, has transformed to an active suburban interchange. It is situated near Dadar station, the interchange for the suburban railways. The North-South traffic corridor Dr. Baba Saheb Ambedkar road cuts across the precinct. The inter-cities bus and taxi terminus, are also situated near this precinct (fig 2).
2. The land prices in this area have shown significant increase and it is one of the highly priced residential areas now. This pressure of increased land prices, which spurs development, has been one of the prime causes of transforming the urban fabric. The increased land prices have also shown significant difference in the community patterns, where from being a middle class precinct with community distinctions, it has now transformed to an elite precinct with overlapping and blurred edges.
3. Owing to changes in the dialogue of this precinct with the rest of the city, the urban spaces, which were used by the neighbourhood, have become identifiable spaces for the city. Presently, spaces like Khodadad Circle and Five Gardens form an important part in the memory of the citizens. Neighbourhoods like Parsi Colony and Hindu Colony are often quoted as models for healthy community living.

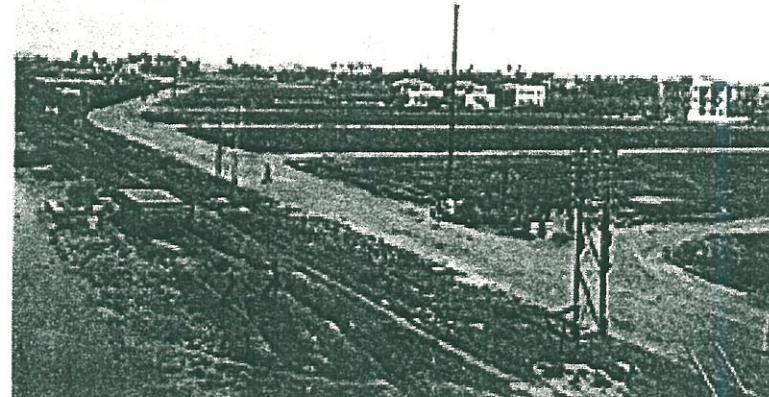


fig1

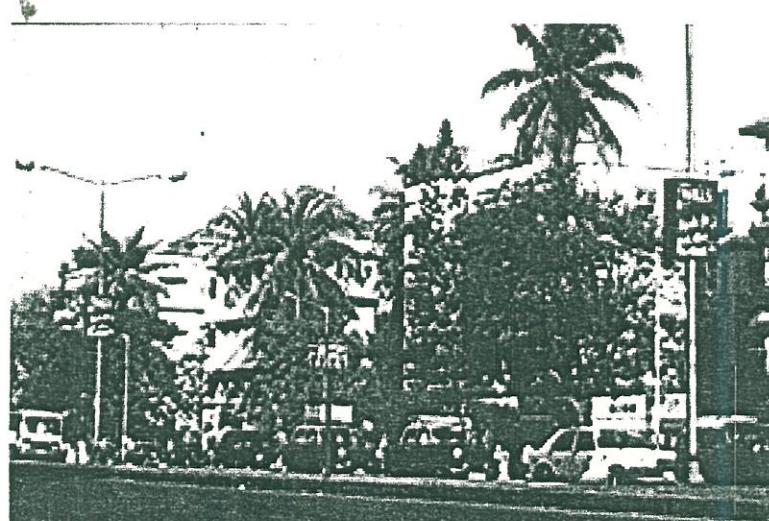
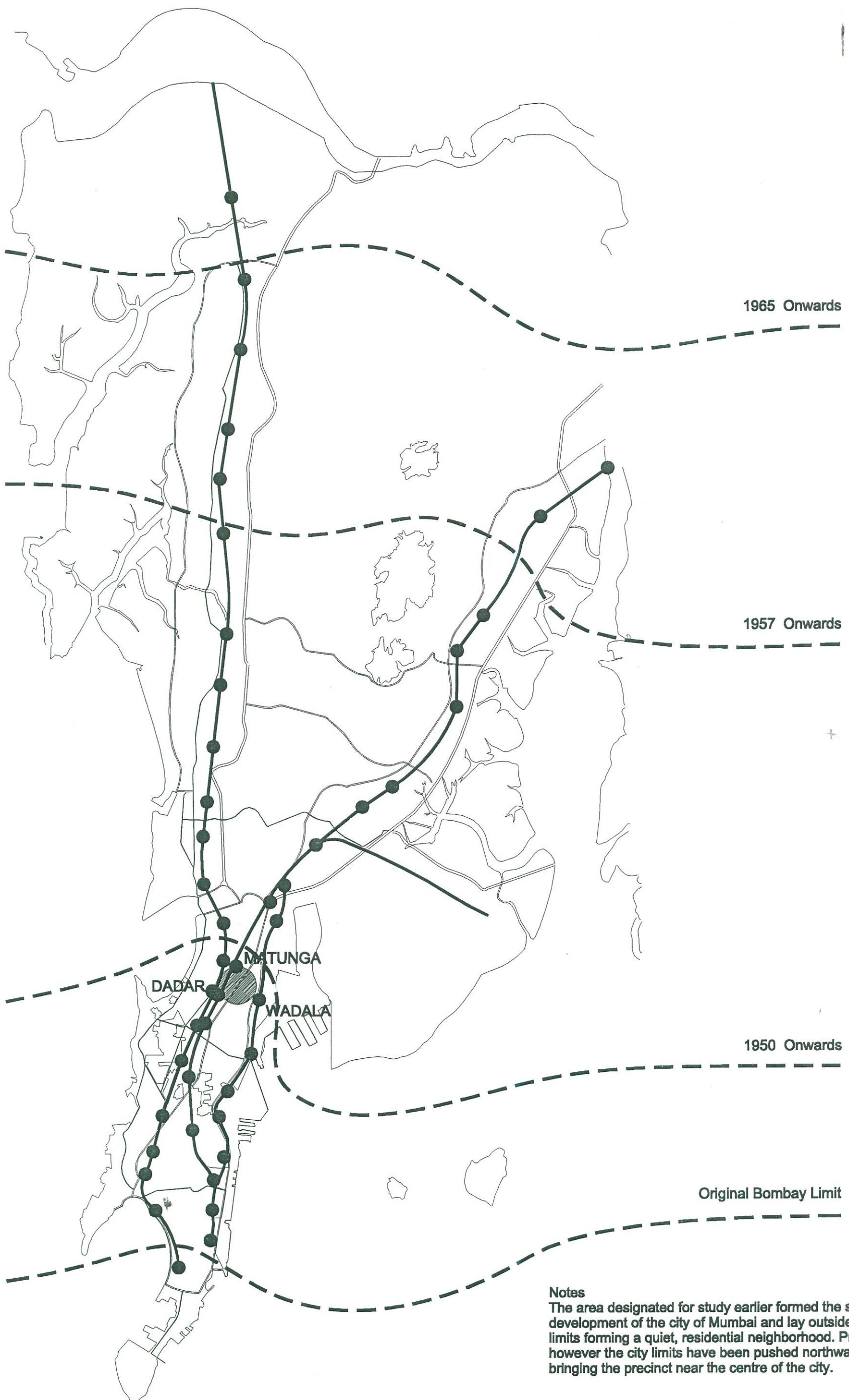


fig 2



Source of base map: Correa Charles, The New Landscape, Strand Books, (1985)



LOCATION

PLATE NO. 1

2.2 DELINEATION OF THE PRECINCT

Initially an area of study had to be delineated. The delineation has been done on the basis of the following criteria:

1. This area was planned as a part of a larger suburban development by the Bombay Improvement Trust between 1898 – 1900. This particular town-planning scheme was known as the Matunga Scheme V (appendix 1). At that time the plots were sold to various trusts, organisations and individual owners. Thus, within the delineated boundary, the precinct presently displays some homogeneity and interconnections in terms of built-form, ownership patterns and activities (plate 2).
2. Within, and skirting the precinct, are a number of urban spaces like Khodadad Circle, Dadar Station, Maheshwari Udyan, Five Gardens, Ruia-Poddar College and Matunga Station., which form a series of interconnected activity areas for the neighbourhood, giving it a distinct identity and holding the area together as one precinct. Thus an analysis should include these spaces and adjacent residential areas which affect it.
3. The delineation is further determined by the major movement systems, which segregate the precinct from the rest of the area viz. the central railway line on the west and the Matunga and Katrak road on the east.

However the precinct displays a lot of heterogeneity within it in terms of activity and community organisation. This makes a case to further define sub-precincts within the main boundaries.

Sub precincts could be identified on the basis of the following criteria:

1. The urban spaces show a marked difference in terms of their activities, built-form and thus need to be analysed separately from the surrounding residential areas. Each of these urban spaces could be treated as a sub-precinct .
2. The residential areas exhibit different levels of community organisations and thus need to be separated from each other (plate 3). This is primarily because individuals or trusts, representing a particular community bought the plots in the area. These areas formed homogeneous groups. The groups were subsequently separated by movement lines.]

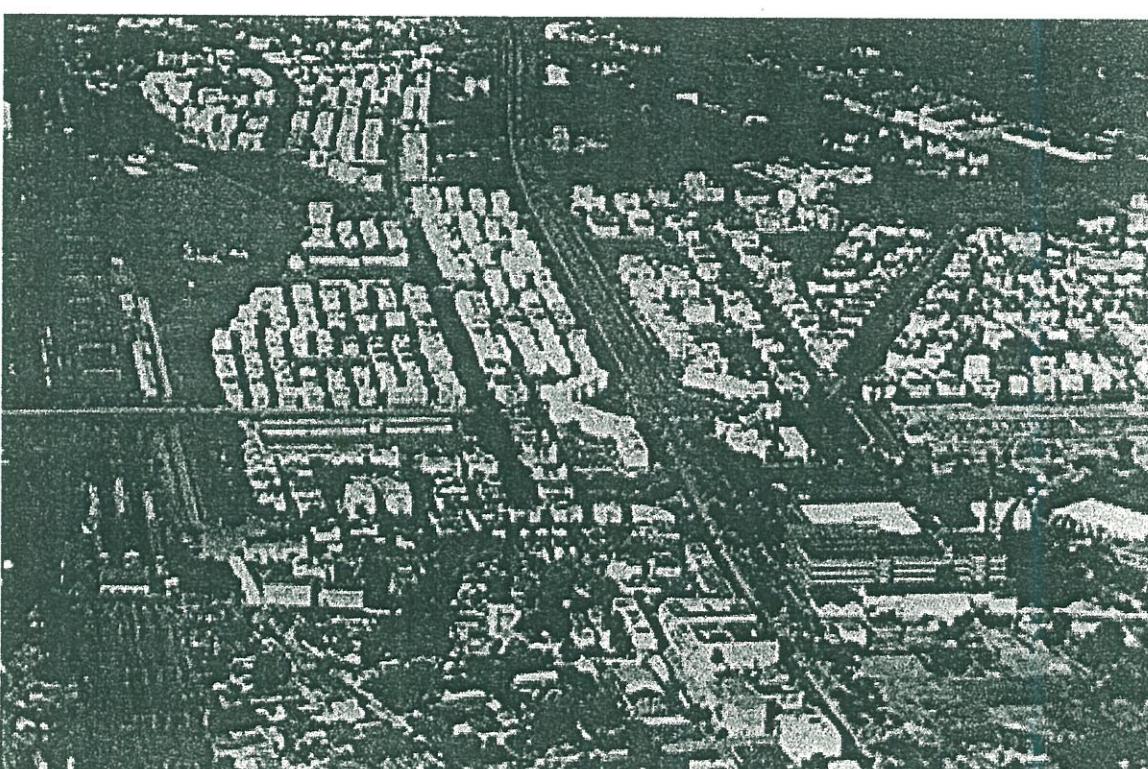
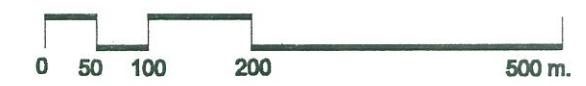


fig3



Notes

The delineation of the precinct is as per the town planning scheme, Scheme No. 5, of the Bombay Improvement Trust. It is held by the Central railway line on the west, Katrak road and Matunga road on the east, important urban spaces like the Maheshwari Udyan on the north and Khodadad circle on the south.





Notes

The precinct shows a distinct community structure which can broadly be classified into five groups, which for the purpose of the study have been designated as Parsi Colony North, Parsi Colony South, Hindu Colony, Matunga South and Matunga North.

0 50 100 200 500 m.

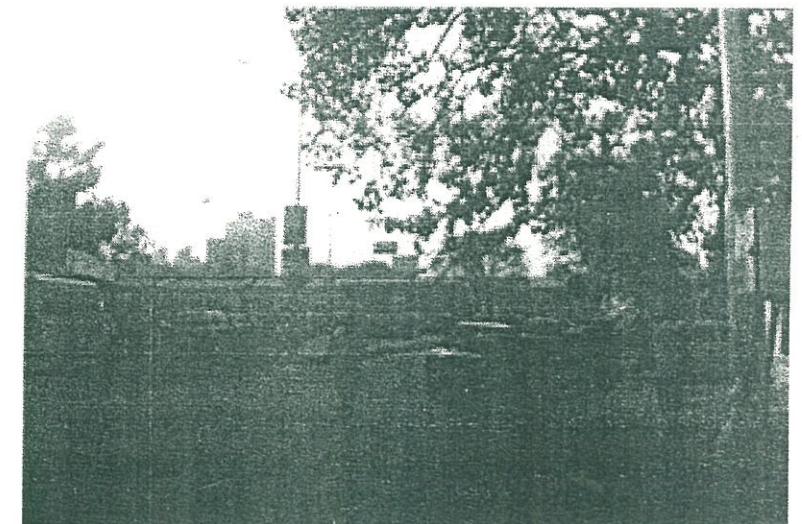


fig 4

2.3 MOVEMENT PATTERNS

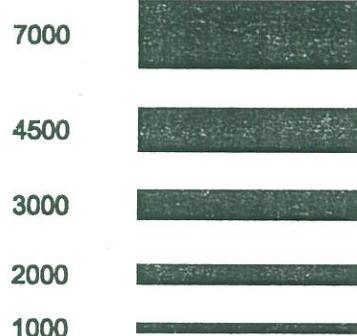
Over the years this precinct has increased its connectivity with the city. The Dr. Baba Saheb Ambedkar road, which is the largest north south corridor, runs through this precinct. (fig.2). Along with this corridor, there are other subsidiary streets in the precinct, like the Laxmi Nappoo road and the Lady Jehangir road on which thoroughfare traffic move. Some of this thoroughfare movement disturbs the residential nature of the precinct. To add to this, there is traffic originating from the precinct due to a high vehicle ownership (plate 4).

(The precinct has a strong network of public transport system served by two suburban railway stations, Dadar and Matunga . The Dadar station forms an interchange between the Central and Western suburban railway line (fig 4).

The precinct is well served by public bus routes. The whole precinct is within walking distance of these systems)(plate 5).

(The pedestrian traffic in this precinct originates from the station to the various educational institutes that are there (plate 6).)

PCU / HOUR LINE THICKNESS



MATUNGA STATION
6000 PASSENGERS
(0830 - 1130 HRS)

DADAR STATION
22000 PASSENGERS
(0830 - 1130 HRS.)

KING'S CIRCLE

ISLAND FREEWAY

MARG (EAST)

KIDWAI

NATHALAL PAREKH MARG

LADY JEHANGIR ROAD

ADENWALA ROAD

BABASAHEB AMBEDKAR ROAD

BHALCHANDRA ROAD

JAME JAMBHEJ ROAD

MANCHERJI JOSHI ROAD

TILATIL

ROAD

WADALA JUNCTION

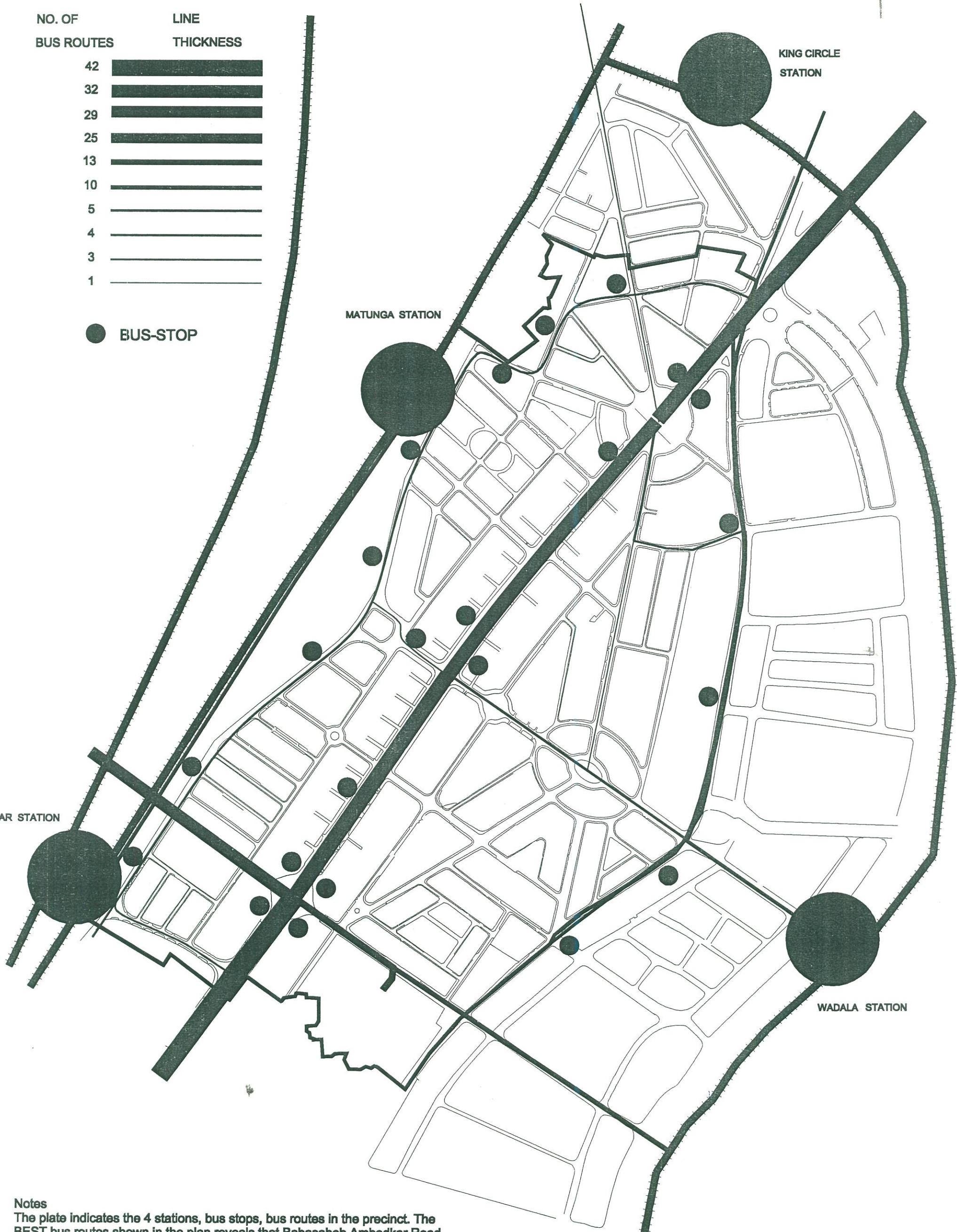
Notes

Babasaheb Ambedkar Road is a major North-South transport corridor
Subsidiary roads like Laxmi Nappoo Road, Lady Jehangir Road, Bhalchandra Road
and Telang Road act as thoroughfares disrupting the residential character of the precinct.



NO. OF BUS ROUTES	LINE THICKNESS
42	Thick
32	Medium
29	Medium
25	Medium
13	Medium
10	Medium
5	Thin
4	Thin
3	Thin
1	Thin

● BUS-STOP



Notes

The plate indicates the 4 stations, bus stops, bus routes in the precinct. The BEST bus routes shown in the plan reveal that Babasaheb Ambedkar Road is the main arterial road for central Mumbai. Along with these city level routes there are other routes that serve the site and are directed towards the institutional and public zones of the precinct. The four railway stations and the major N-S corridor act as important city connectors relegating the southern edge of the site as an important transport interchange.





Notes

The pattern of pedestrian movement indicates critical points from where movement within the precinct begins or terminates and the paths that are followed. The residential areas, the institutional, public areas and Dadar station, Matunga station and King circle station are the primary points from where movement is generated or at which it terminates.

0 50 100 200 500 m.

2.4 THE LAND USE POLICY

A break-up of the landuse as envisaged by the initial plan is shown (plate 7). It shows the residential areas, mixed-use areas, commercial zones, institutional zones and open spaces. However there are various changes observed in land use due to the following:

1. It has been seen that the precinct has changed its relationship with the city. This residential neighbourhood now lies near a busy interchange. This has brought some activities, like inter-city traffic interchange and hawking zones, (fig 5) which are contradictory to its residential nature (plate 8).
2. Also the precinct itself has seen changes within, like increase in car ownership and vehicles used by institutes. These changes have threatened the quality of life in the precinct (fig 6)
3. Changes in land use have occurred due to changes in city landuse policy which allows professional offices in residential areas. Some pockets of residential neighbourhoods show this landuse transformation. This has led to an increased requirement of parking.



fig 5



fig 6





Notes

This plate shows incompatible landuse patterns such as off-street parking of private cars and buses, taxi stands, hawking zones and an inter-city traffic interchange. These have taken shape due to factors such as the change in their relationship of the precinct to the city and due to increase in the vehicles owned by individuals and the institutions.



3

OWNERSHIP PATTERN

As per the town planning scheme the Bombay Improvement Trust prepared a Master Plan for the area. This area was called Matunga scheme 5 and was divided into 816 plots ranging from 300 sq m to 1000 sq. m. plot area. Initially some plots were developed by the government as institutions which served as incentives for attracting residential population. A number of residential plots were bought by private trusts, which were community based. These trusts developed charity housing and hostels on these plots for the respective communities. Individual owners from the same community preferred to buy and develop plots around their community trust owned plots. The trust also developed institutions like J.B. Vaccha school, IES school etc. as services for residents. The ownership pattern thus shows a distinct community based spatial organisation with certain pockets of the area owned by specific community like the Parsi community inhabited the eastern side of the Baba Saheb Ambedkar Road, a dominant Maharashtrian community existed on the southwestern corner of the precinct and a strong Tamil and Kutchi community occupied the northeastern corner (plate 9 & 3).

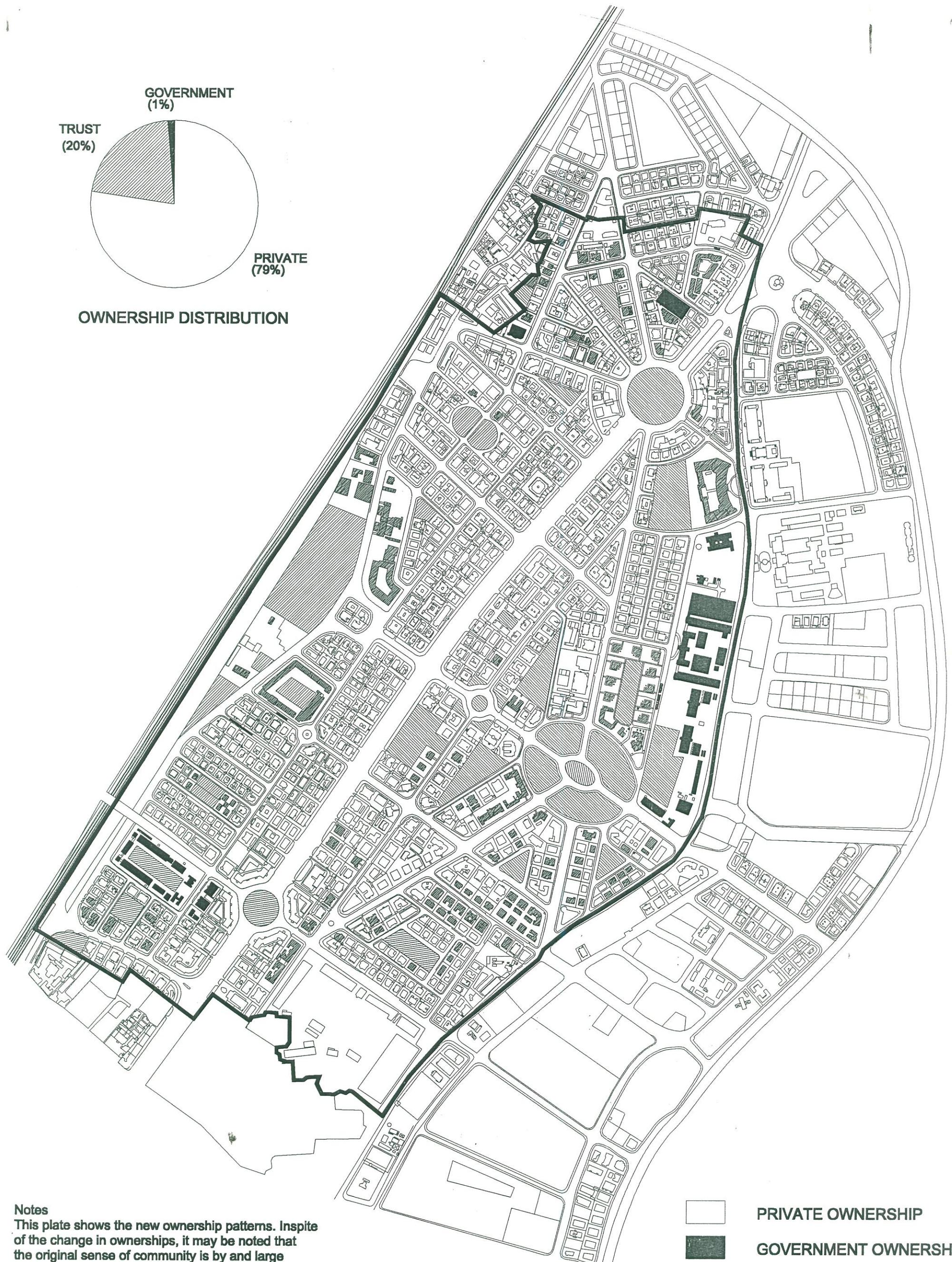
After independence, due to the precinct assuming a core location in the city, the pressures of increased land prices and possibilities of increasing developments through newer development rules, the ownerships have undergone changes with plots being sold over to real estate developers. Moreover some pockets may now exhibit a cosmopolitan nature of community organisation.

It will be seen later that change in ownership and building transformations exhibits a relationship.

It is also noted that in most cases where the properties are preserved, it belongs to the government or to some community trust. This might indicate aspirations of individuals to transform their properties.

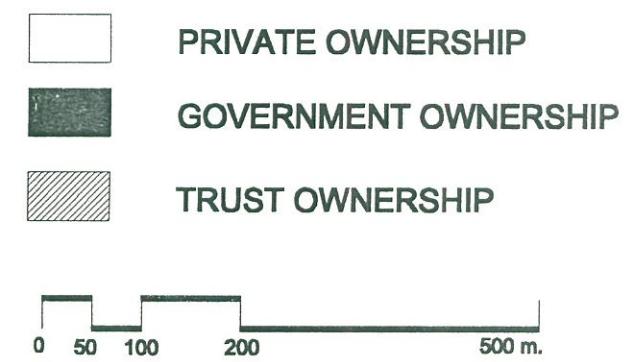


fig 7



Notes

This plate shows the new ownership patterns. Inspite of the change in ownerships, it may be noted that the original sense of community is by and large maintained except perhaps in the two areas of Matunga North and Matunga South. It was observed during the study that the trust properties and government owned properties remained unchanged, whereas most properties that had transformed belonged to individual owners.



PHYSICAL CHARACTERISTICS

4.1 THE BUILDING BYLAWS

The initial building bylaws were framed by the Bombay Improvement Trust. These bylaws were local in nature and applied specifically to this precinct. They were based on ground coverage, building heights; front, side and rear open spaces. They reflected the Improvement Trust's approach to City planning, which used urban design tools that combined concerns of sanitation and infrastructure with those of a residential environment. However, each neighbourhood shows different and distinct character in their planning. The physical characters of each of these neighbourhoods are summed up in the appendix 3. The various indicators are the percentage of open spaces, roads, size of plots, ground coverage, and global F.S.I of the neighbourhood.

However, Bombay Municipal Corporation took over the office of the B.I.T. and in 1964, along with the Development plan for Greater Bombay, the concept of F.S.I. was introduced. This led to an increase in permissible built area. The only consideration now was a blanket FSI of 1.33 and a minimum front; side and rear open spaces. This imposition of these abstract mechanisms to govern the urban form led to a rupture in the urban fabric and the character of this precinct, which was formed by building bylaws more specific to the precinct and sympathetic to its perceived needs.

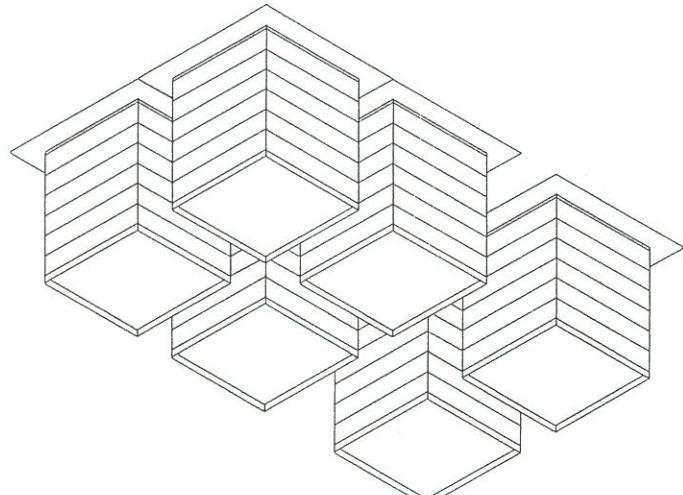
A more recent bylaw is the Cess rule that allows an FSI as high as 2.5 in the case of Cess buildings, with very less set-back of building as stated in the (plate 10). This bylaw needs to be very critically analysed as it could lead to a complete rupture in the urban fabric of the precinct.

The change in the overall character of the precinct, due to new bylaws can be observed by the change in global F.S.I. The increased land prices overlapped with the concept of F.S.I and the Cess rules have led to adhoc and unsympathetic developments, which are in form of added floors, or complete new development of the nature of high rise buildings.

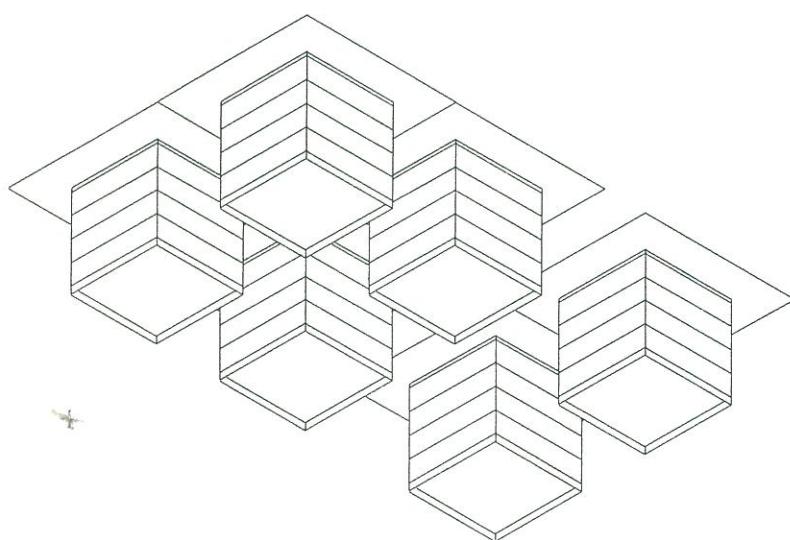
COMPARATIVE DEVELOPMENT CONTROL REGULATIONS

Notes
Plate 12 shows a study of the comparison between the original set of D.C. rules and their implications on the precinct in maintaining its character as against the present set of D.C. rules.

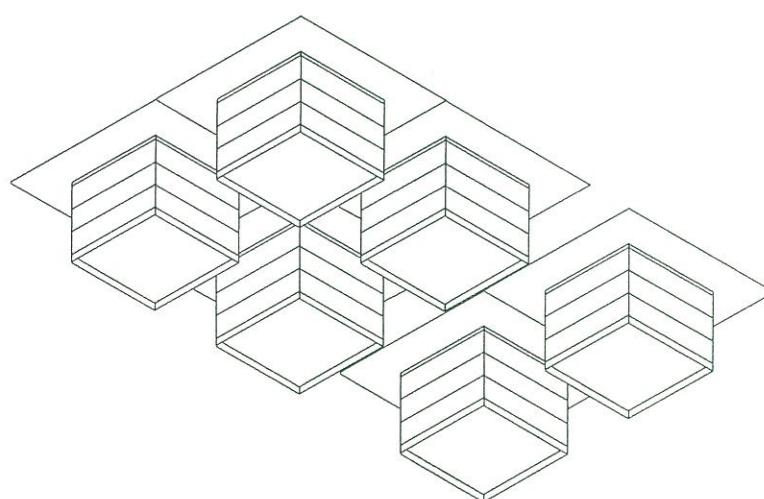
IMPLICATIONS OF THE CESST RULES



BUILDFORM BEING CHANGED WITH FSI OF 1.33



ORIGINAL BUILDFORM WITH 1/3 GROUND COVERAGE AND G+2 HEIGHT



Street scape towards and the ensemble of the builtforms destroyed.

Streetack Global street-frontage based setbacks depending upon light and ventilation requirements, fire protection and street widths. Set back for cross unless mentioned by the rules. (refer drawing)

Streetscape and townscape acknowledged.

Streetack Specific street-frontage and requirements of neighbouring property based setbacks but not denying light, ventilation and fire protection based on 3 m all around. (refer drawing)

CESST FSI increased to 2.5

Streetscape and townscape acknowledged.

Height restriction G+2

Not very sensitive to site infrastructure problems or development. With additional FSI and relaxation of certain rules the building heights and ground coverage area affected with no sympathy towards scale or scope of the coverage area.

CESST FSI increased to 2.5

Streetscape and townscape acknowledged.

Height restriction G+2

FSI 1.33

Streetscape and townscape acknowledged.

Height restriction G+2

Site seen as a part of greater Mumbai structure of the site with global rules applicable which fall to recognise the physical and community needs under Land and Estate Department.

Ground coverage not applicable

Ground coverage not controlled.

Ground coverage 1/3 of total site

Corporate jurisdiction Brhamumbai Municipal Corporation

Footprint of the built controlled.

Makes it sensitive to site conditions

IMPLICATIONS

PRESENT D.C. RULES

IMPLICATIONS

OF D.C. RULES

Jurisdiction Bombay Improvement trust makes it sensitive to site conditions and later under Land and Estate Department.

FIGURE GROUND

PLATE NO. 11

0 50 100 200
500 m.

This plate shows changes in the open space structure by addition of built-form as in the case of the fly-over and a change in activities in these spaces.

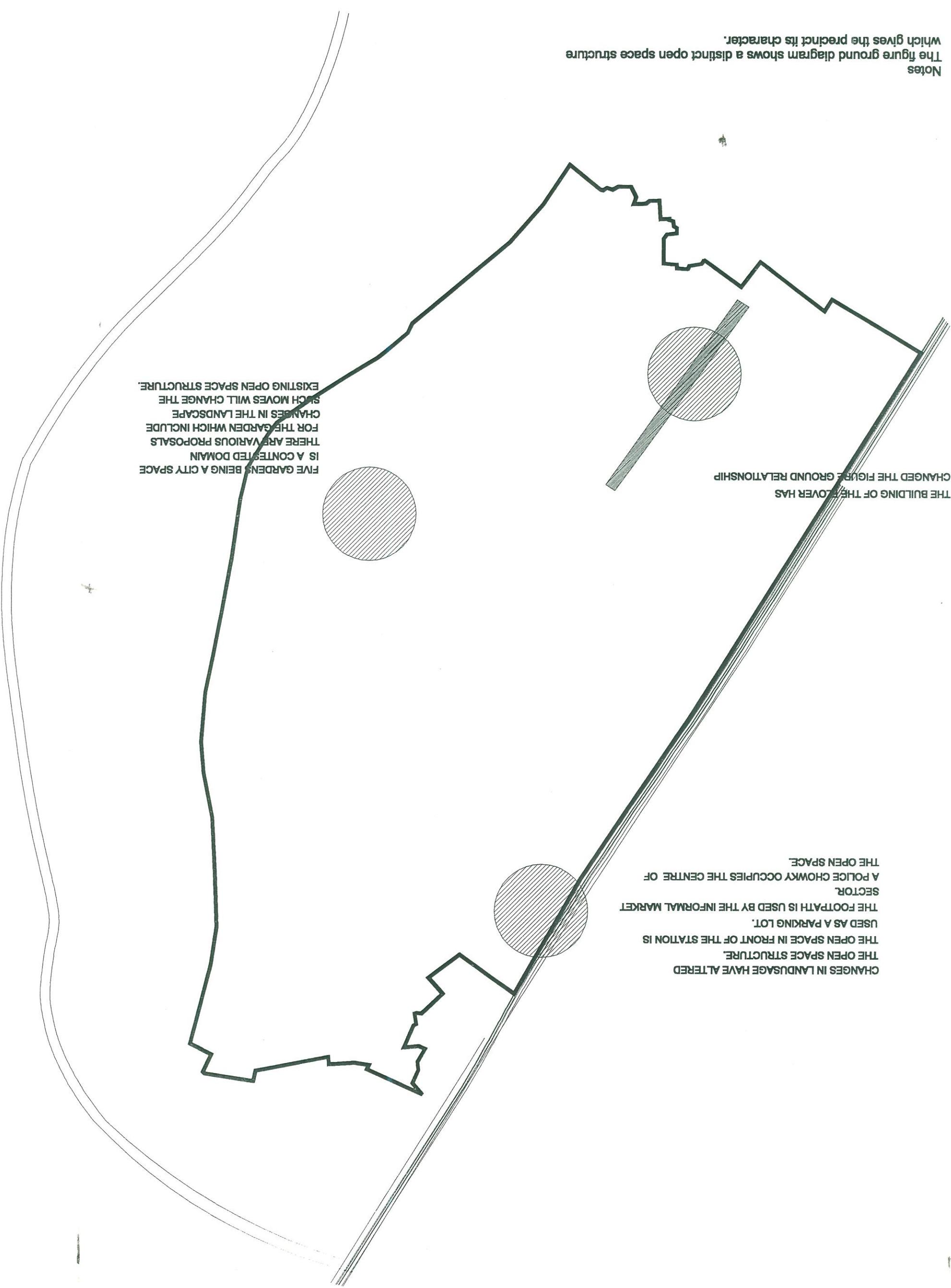
Notes



DISRUPTIONS IN FIGURE GROUND

PLATE NO. 12

0 50 100 200 500 m.

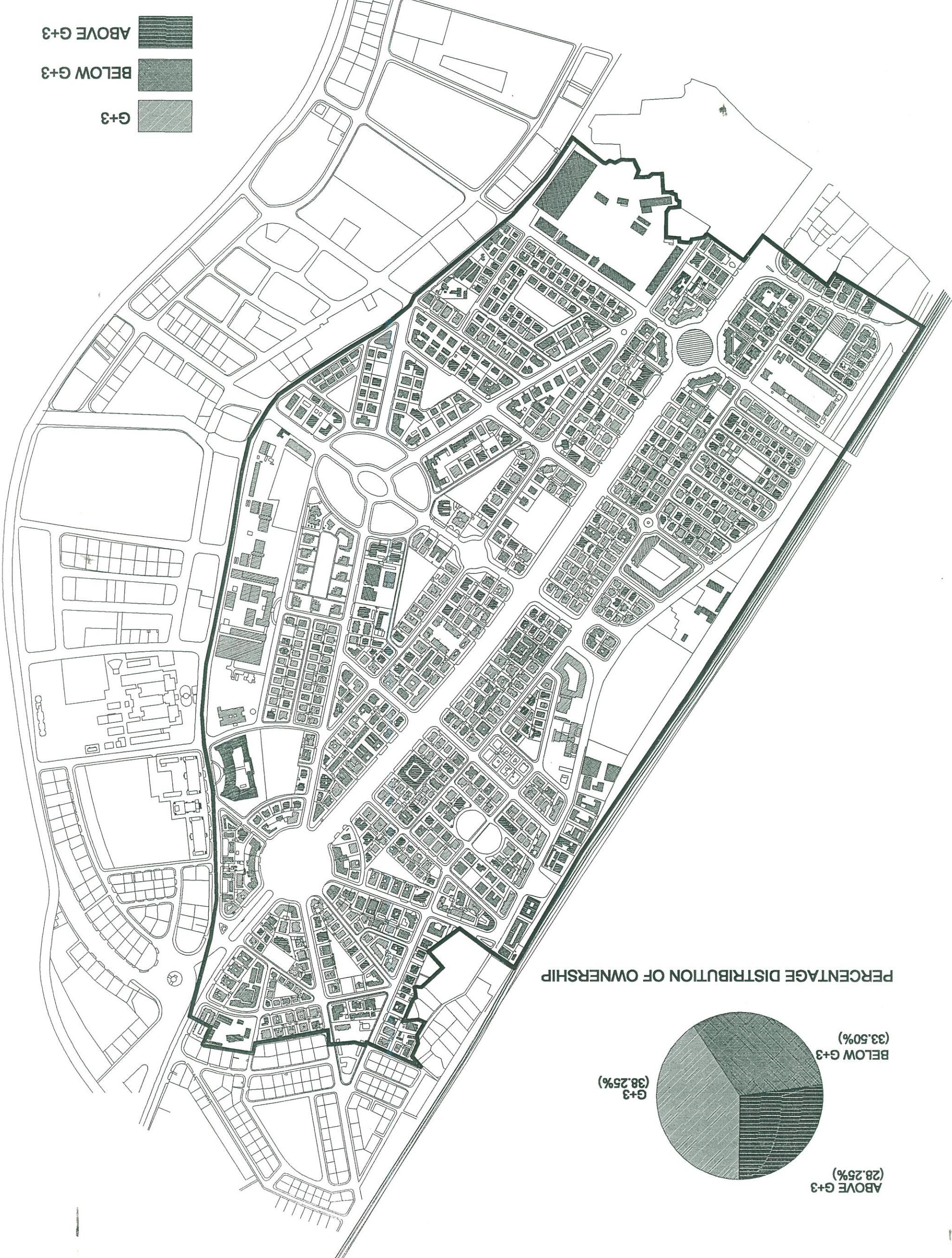


BUILDING HEIGHTS

PLATE NO. 13

0 50 100 200
500 m.

Notes
This plate shows a rupture in the fabric where building
heights exceed G+3.



NOT TRANSFORMED (40%)

COMPLETELY TRANSFORMED (5%)

PARTIALLY TRANSFORMED (55%)

DISTRIBUTION OF BUILDING TRANSFORMATION



Notes

This plate indicates property that is fully transformed, (new structures), partially transformed, and not transformed at all. The study shows that 55% of the precinct is already transformed.



fig 8



initially building height in the precinct were restricted uniformly to ground + buildings as high as five and six stories being constructed (plate 13 & 14). However subsequently with the application of BMC bylaws, building height became a determinant of FSI. This is when it started showing ruptures with two.

4.2.2. BUILDING HEIGHTS

This is important in analysing the open space-builtform relationship and the structure of the open spaces in the precinct (plate 11). The structure of open spaces is of utmost importance for the physical character of this place. It is formed out of gardens, tree lined streets and squares (fig 8). It ends the precinct visually identity. However, presently there is a lot of disruption observed in its visual identity. This is a lot of disruption observed in the precinct due to encroachments in open spaces and change in the building heights (plate 12).

4.2.1. THE FIGURE-GROUND RELATION

The analysis of physical character of the precinct in this case will emphasize the tools, which indicate the open space-builtform relations. It will look into the figure ground relation, the change in building heights, streetscapes and the building typologies and transformations in them.

4.2 THE PHYSICAL FORM

- control over the use of landscape, height of compound walls etc.
2. The absence of bylaws sensitive to the character of the precinct, like some applications of present building bylaws.
1. Applications of present building bylaws.

undergone due to:

representative type has been studied to observe the transformations it has mentioned features, which lend it a distinct character (plate 16 to 28). Each 10). The streets of each neighbourhood show differences in these above compound walls, the distinctive use of landscape and street furniture (fig 9 & 10). Characterised by their scale, use of similar paving material, uniform height of streets and the residential streets. The physical character of these streets were the main vehicular streets, the subsidiary streets connecting the main vehicular 15). There are three hierarchies, which have been identified that consists of streets and the residential streets, the subsidiary streets connecting the main vehicular the main vehicular streets, the subsidiary streets connecting the main vehicular 15).

It can be noted that there is a hierarchy of streets present in this precinct (plate

4.2.3. STREETSCAPE AND SCALE

fig 10



fig 9



HIERARCHIES OF STREET

PLATE NO. 15

0 50 100 200

500 m.

The remaining are residential streets within the particular neighbourhood.

No 2 indicates the main arterial streets that feed the residential areas.

The plate indicates the hierarchies of streets. No 1 is the main N-S traffic corridor,

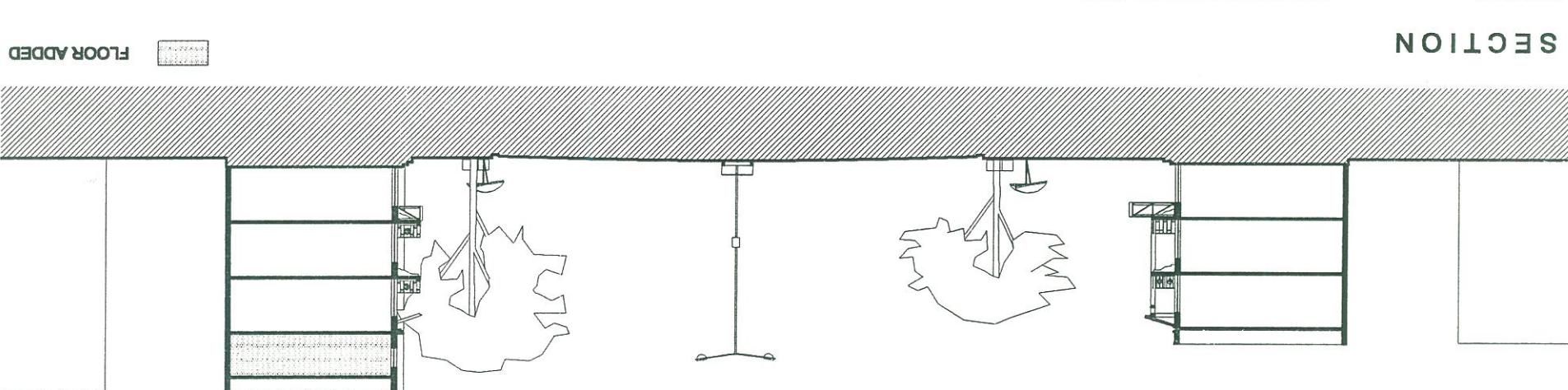
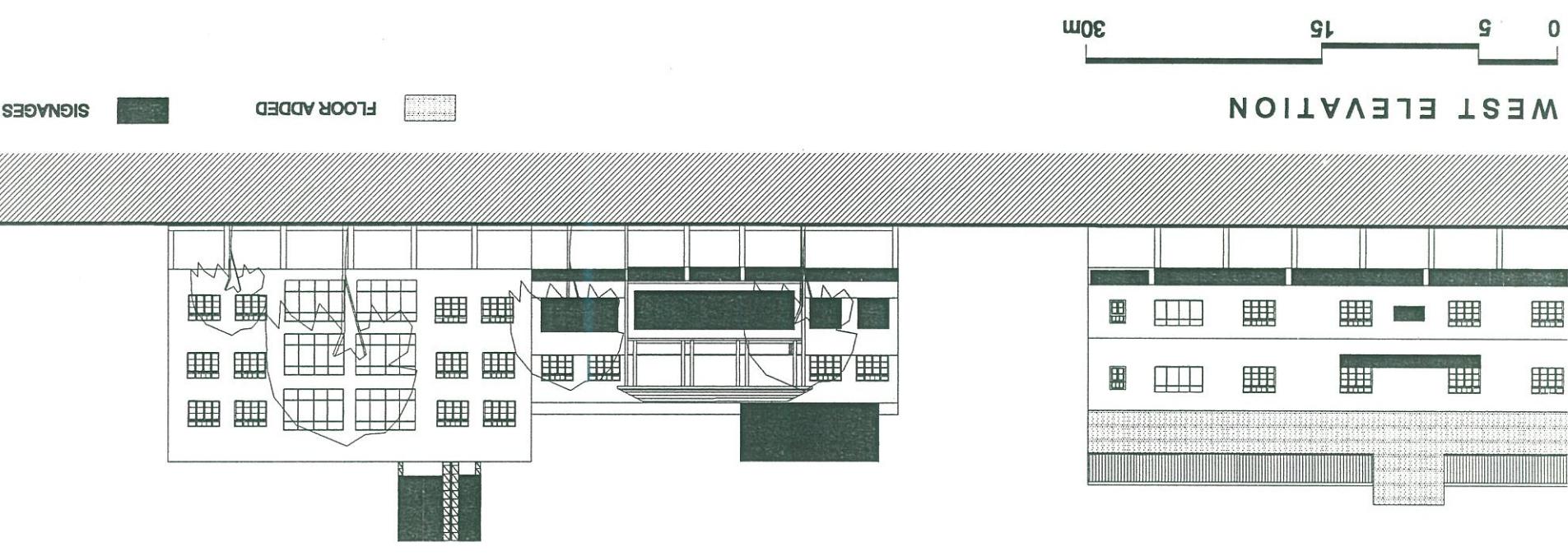
Notes



STREETS (AMBEDKAR ROAD SOUTH)

PLATE NO. 16

The disparate paving patterns are indicated on the plan.
Ambedkar road is one of the main north-south corridors for the city. Since the road caters to city level traffic, transformations here are in the form of, the fly-over, urban
signages and a change in landuse in terms of informal shops. Besides this other transformations are observed in building heights and street furniture, particularly paving.

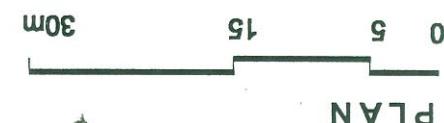


STREETS (AMBEDKAR ROAD North)

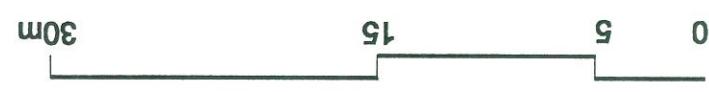
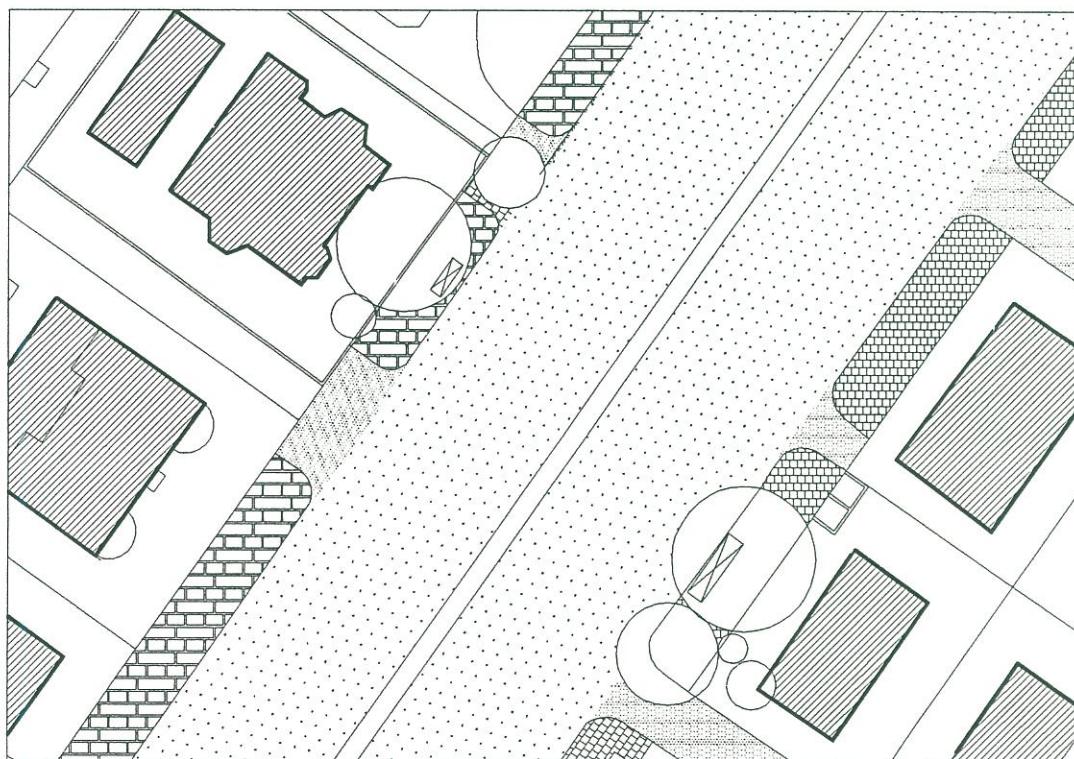
PLATE NO. 17

(AMBEDKAR ROAD North)

Notes
This representative section is taken towards the north on Ambedkar road. Here, since there is no commercial landuse, transformations are fewer.
They are in the form of building heights mainly.
Transformations in the form of street-furniture like paving and compound walls are also found here. Paving patterns are indicated on the plan.

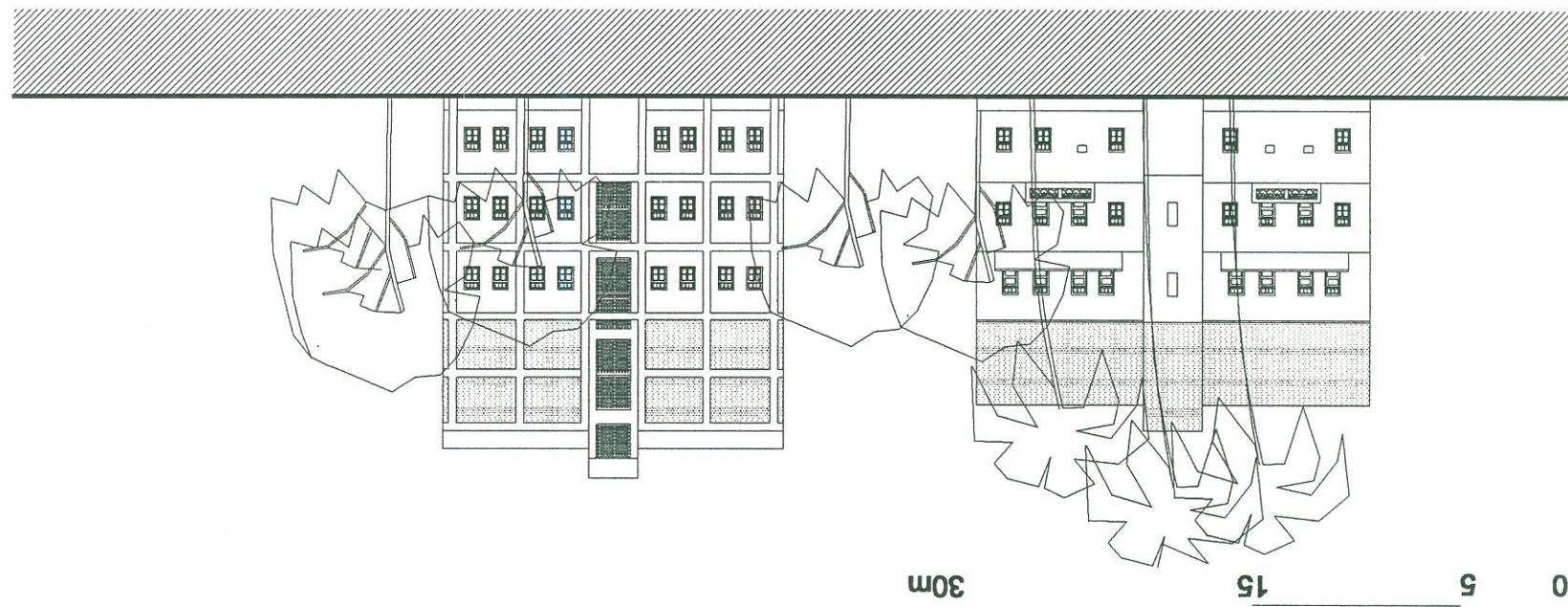


BUS-STOP



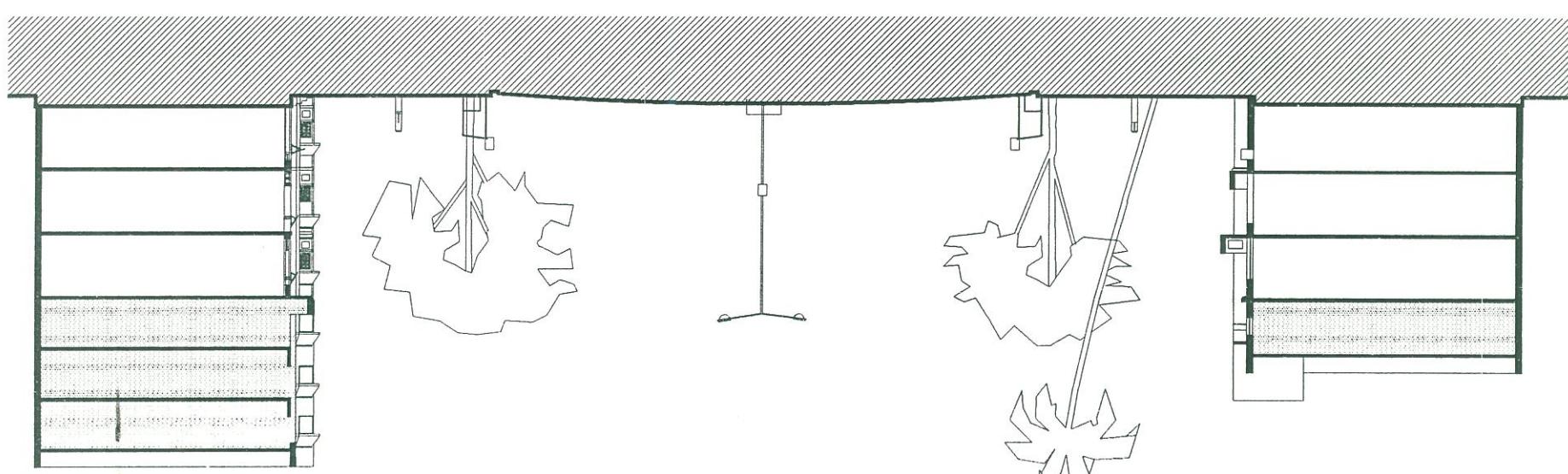
FLOOR ADDED

WEST ELEVATION



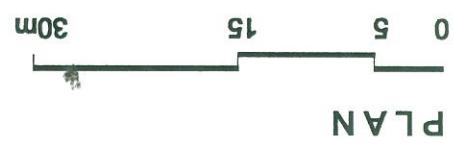
FLOOR ADDED

SECTION

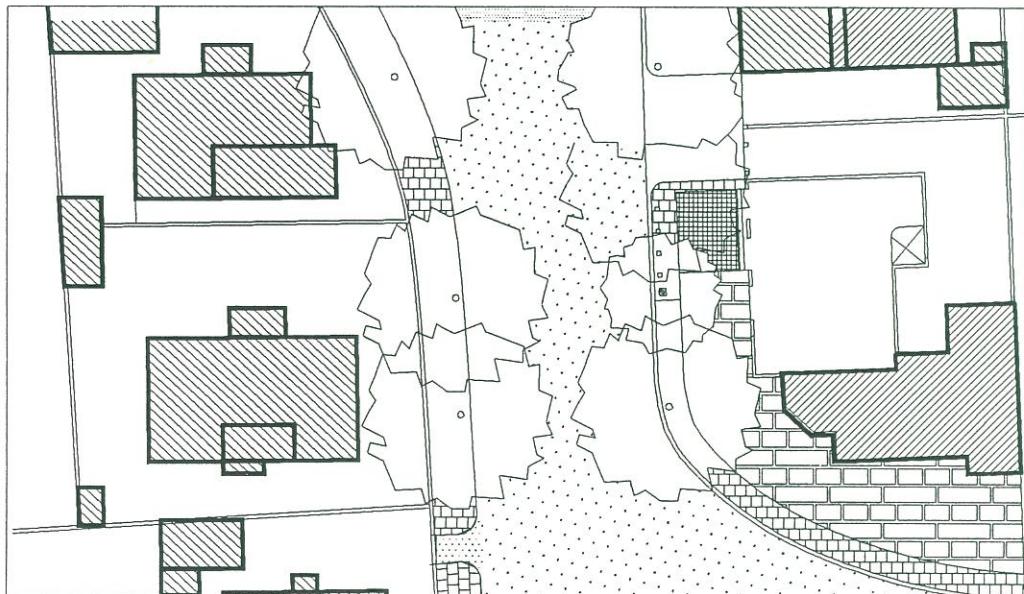


Lady Jehangir road acts as a connector between Laxmi Naspoo road on the west and Katarak road on the east. It also supports traffic through traffic from Ambdekar road to the East Island Freeway. The plate shows transformations in the streetcape at a representative section of the Lady Jehangir Road. Transformations on this road are in the form of building heights, signages on buildings and street furniture, particularly the disparate paving patterns as indicated in plan.

Notes



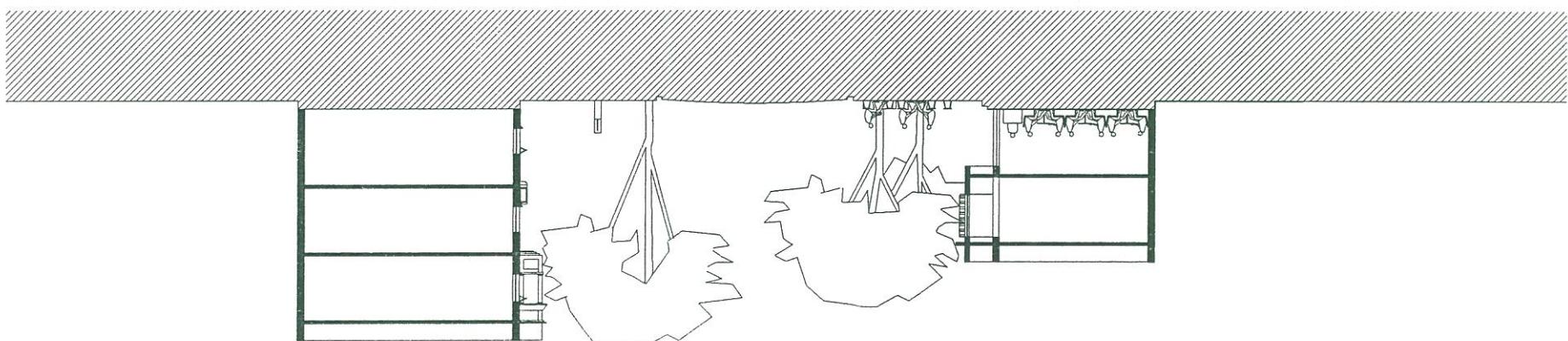
PLAN



WEST ELEVATION



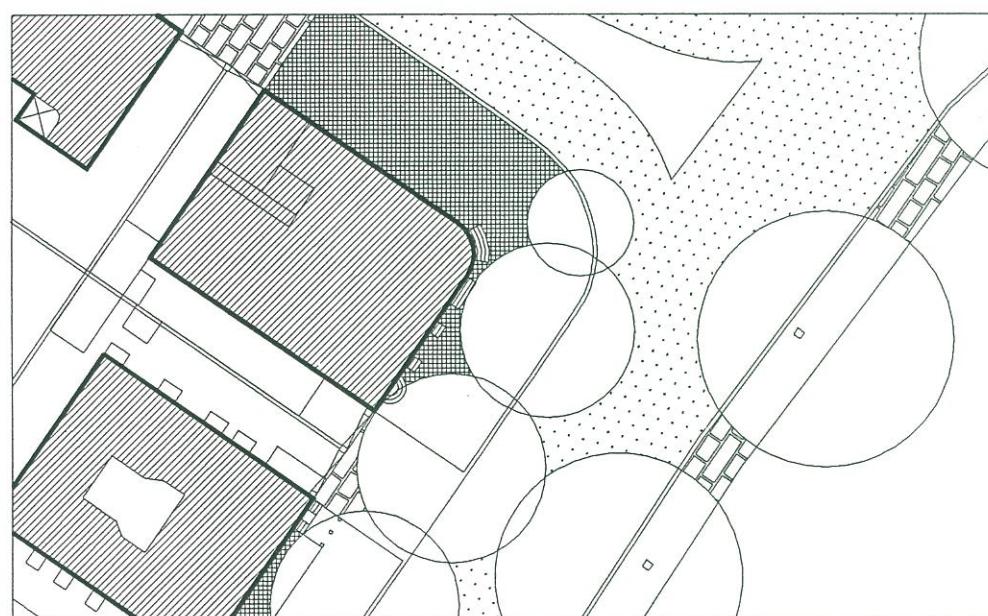
SECTION



Notes
Representative sections of Laxmi Napao road at Dadar display a degree of residential character of this part of the road is not as ruptured and in terms of physical landscape features. However the residential transformation in terms of building height, some level of urban signage as it is in the parts further north, towards Matunga station.

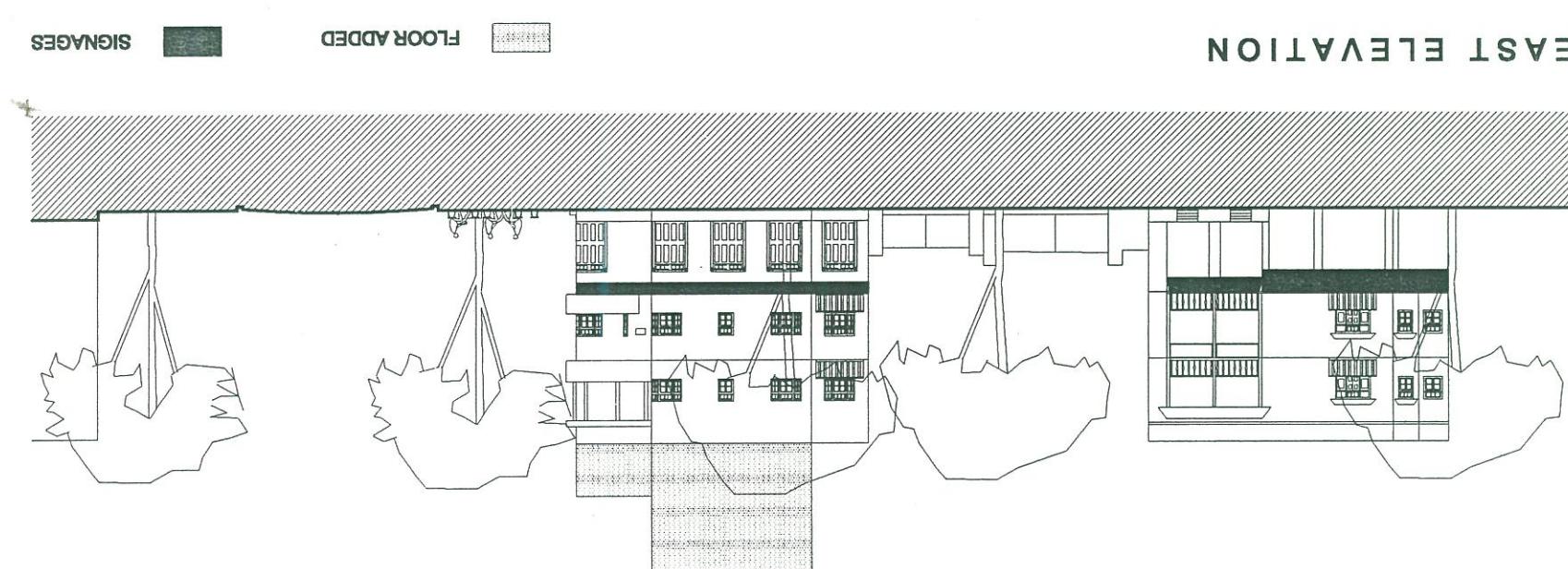
0 5 15 30m

PLAN



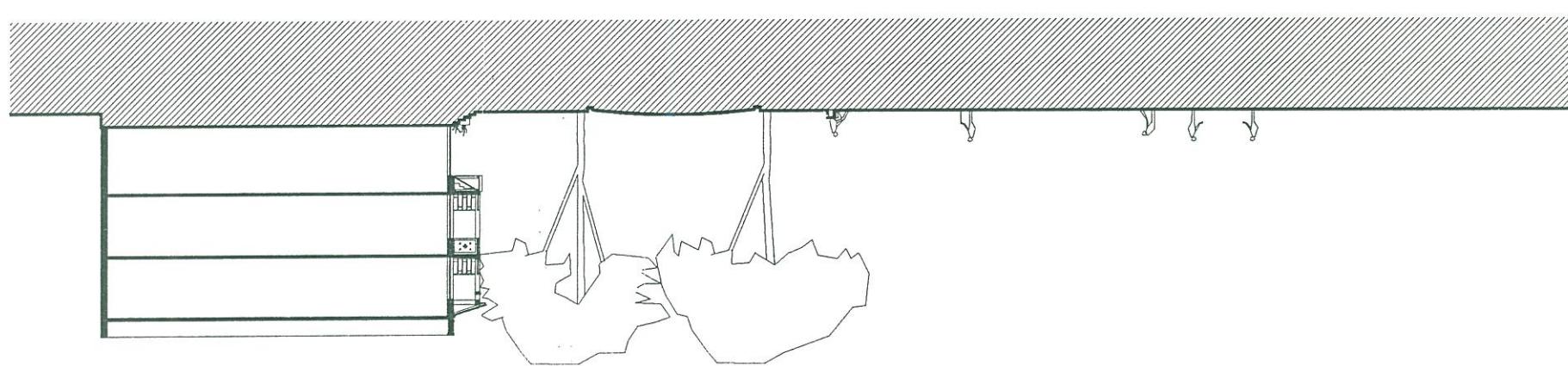
0 5 15 30m

EAST ELEVATION



0 5 15 30m

SECTION



STREETS

(LAXMI NAPPOO ROAD, MATUNGA)

PLATE NO. 20

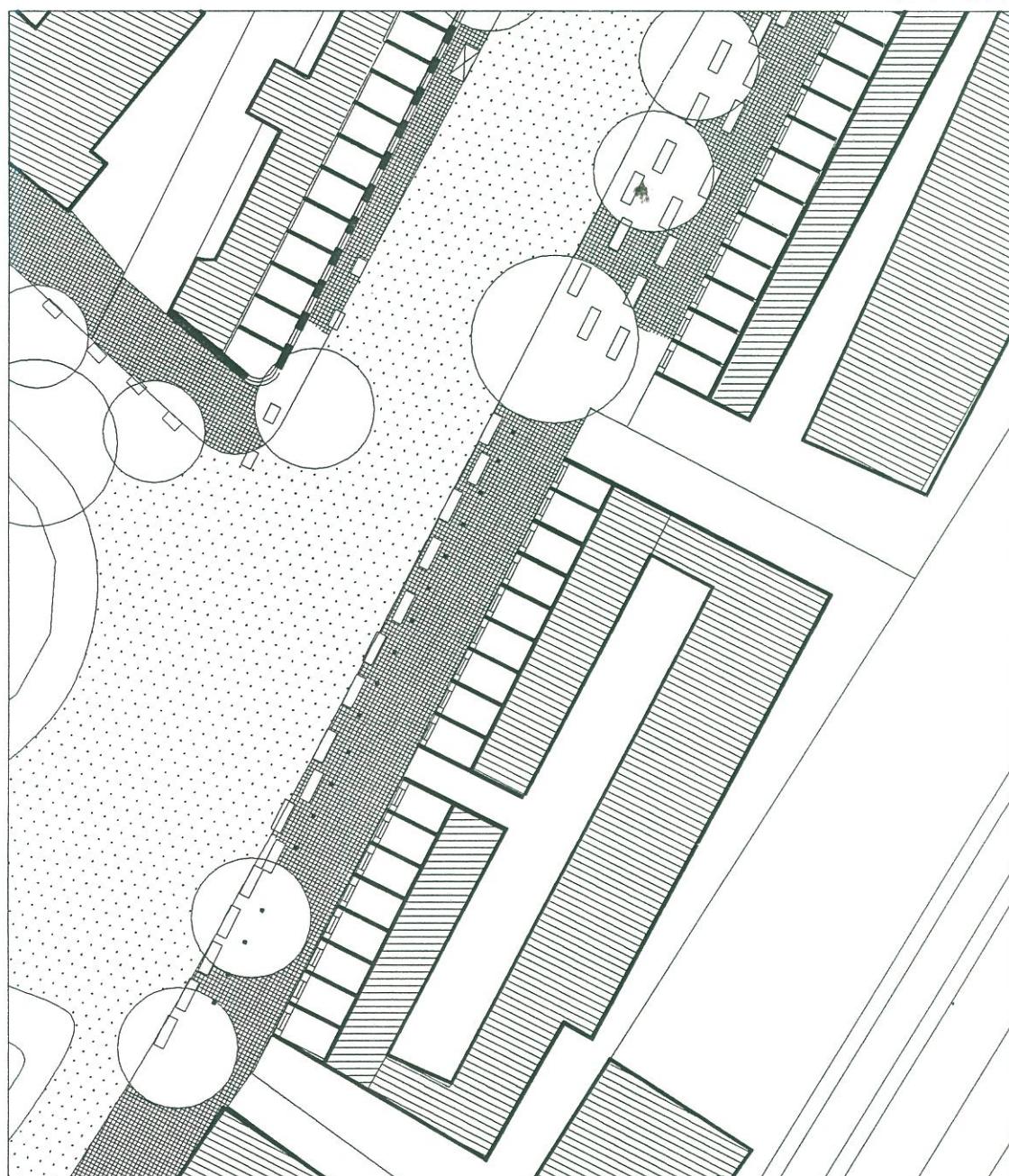
The plate shows transformations in the streetscape at Laxmi Napoo Road at Matunga as a representative section. Transformations on this street are in the form of building heights, signages on buildings and land-use changes in the form of an informal market place and parking.

Notes

0 5 15 30m

HAWKING

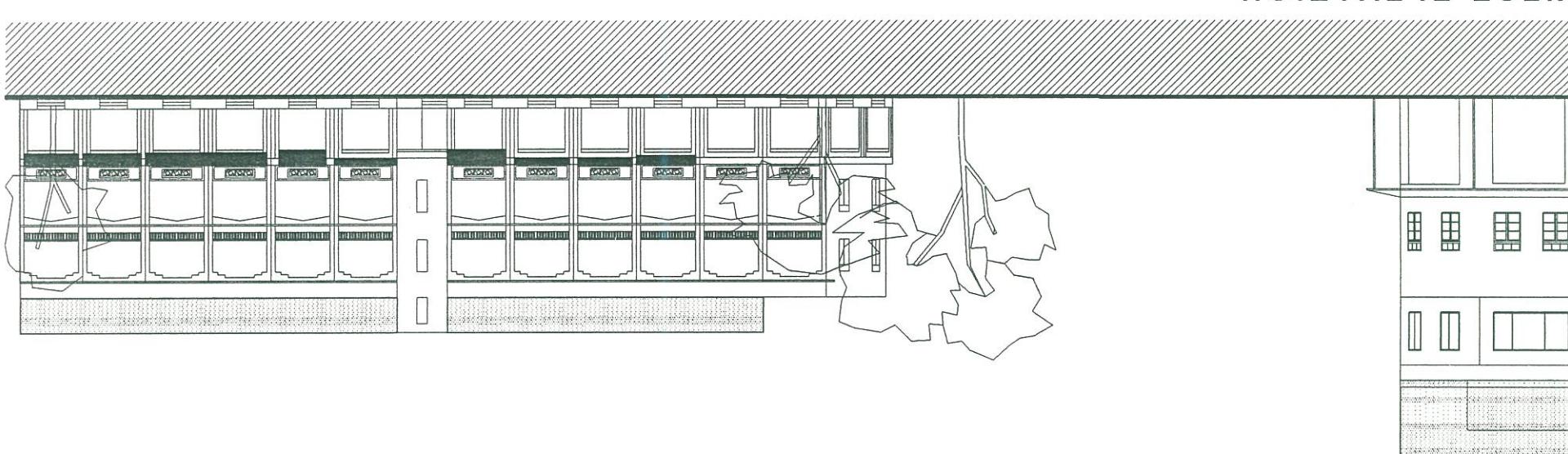
PLAN



0 5 15 30m

SIGNAGES FLOOR ADDED FLOOR ADDED

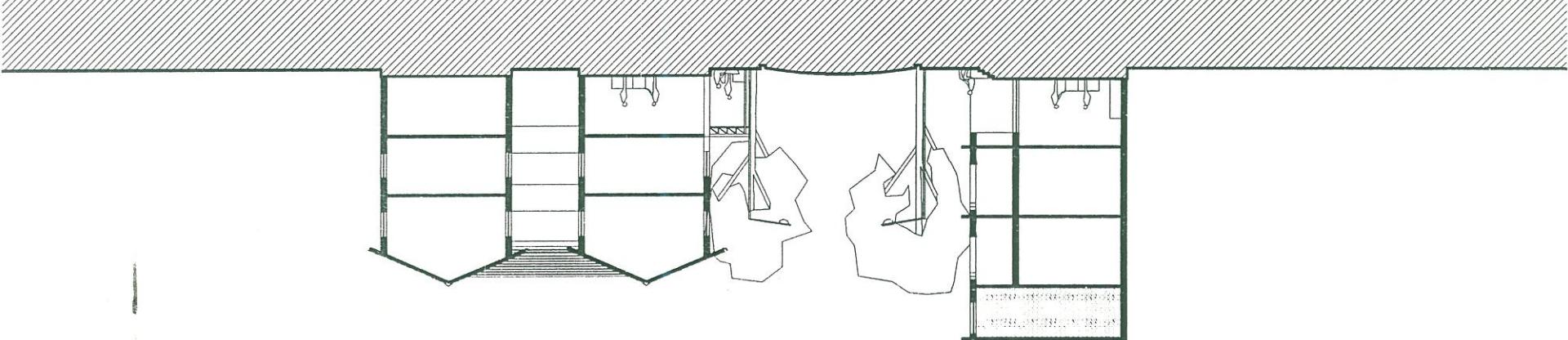
WEST ELEVATION



0 5 15 30m

FLOOR ADDED

SECTION

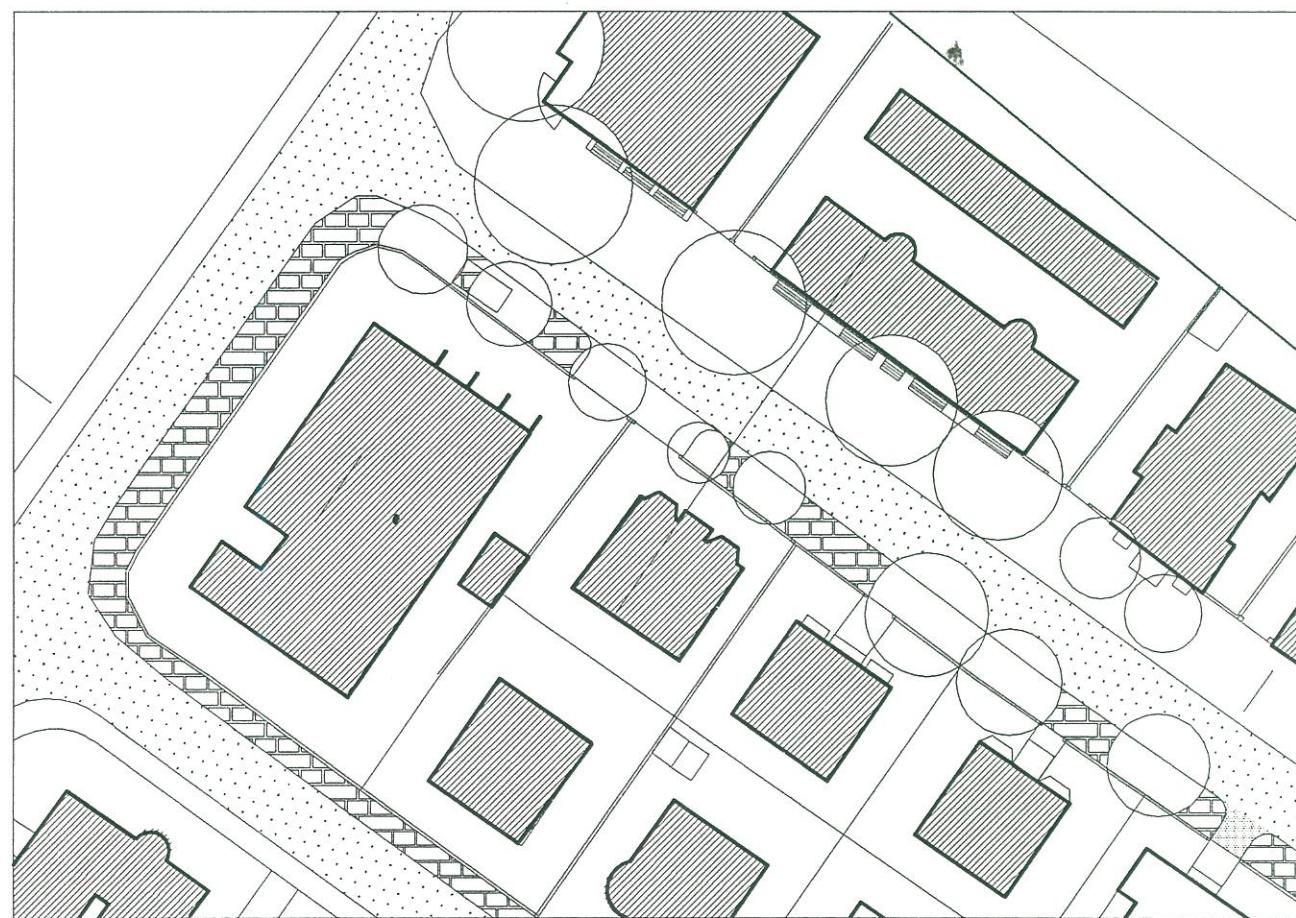


Hindu colony road no. 1 is a residential street. Transformations have occurred in building heights, the introduction of signages on building facades, changes in land usage such as off street parking and in the paving patterns.

Notes

0 5 15 30m

PLAN



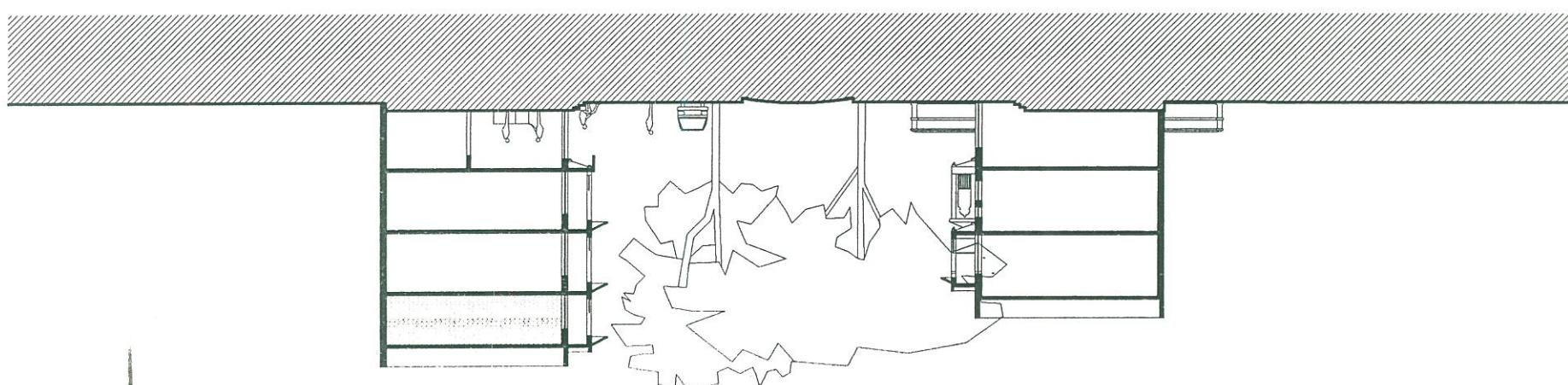
0 5 15 30m

SOUTH ELEVATION



0 5 15 30m

SECTION

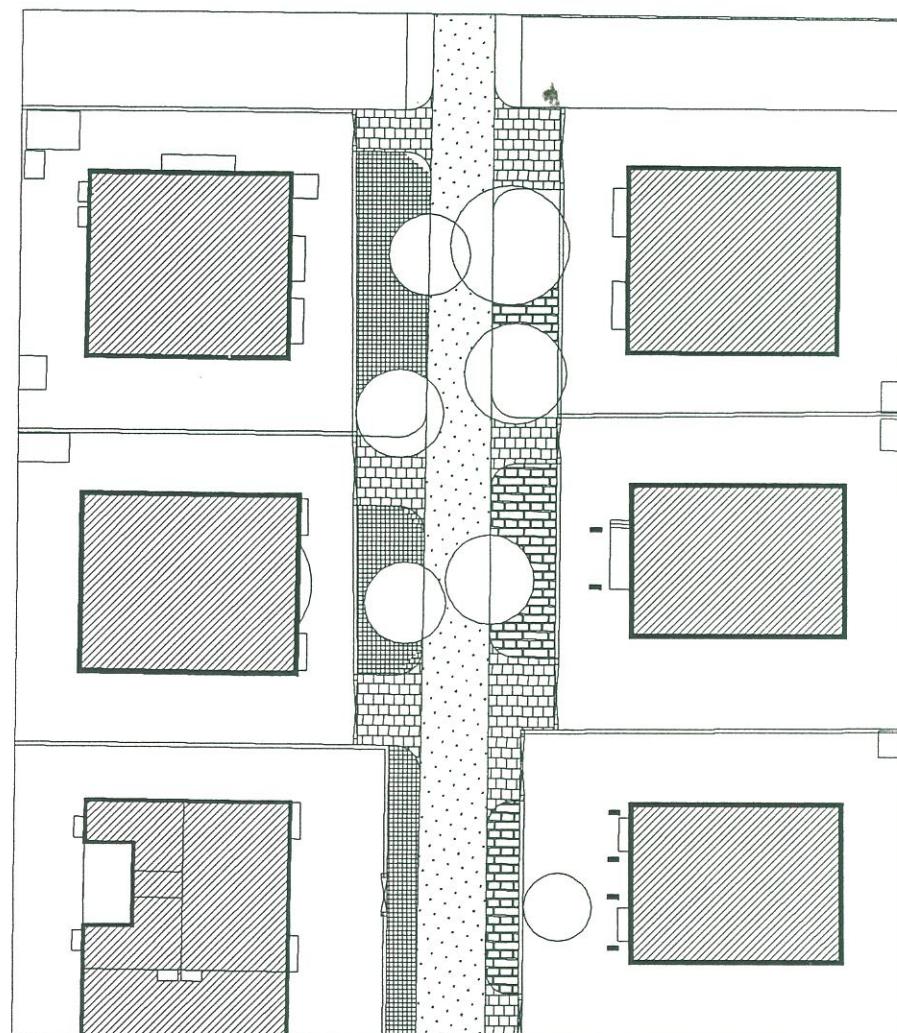


Hindu colony road no. 5 is a residential street. Transformations have occurred in terms of addition to building heights, often through columns rising outside the original building line or by new structures. Changes have occurred in the nature of the street furniture, landscape and in usage of pavements for off street parking.

Notes

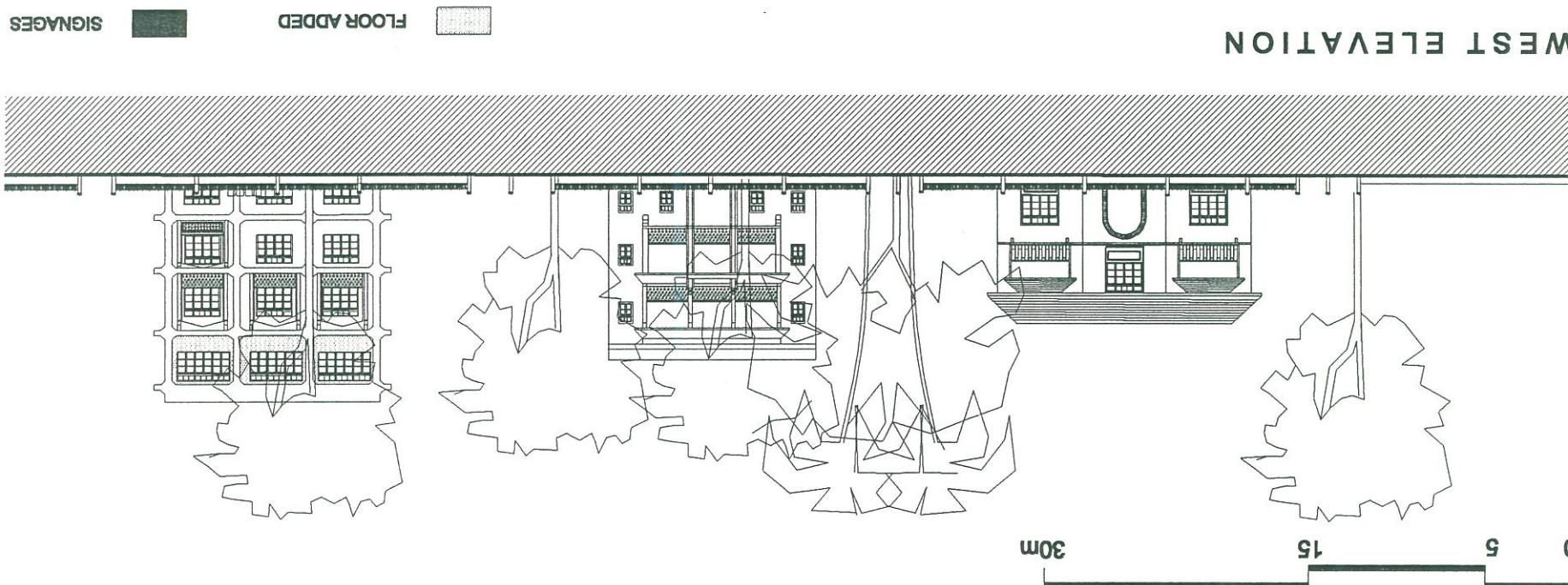
0 5 15 30m

PLAN



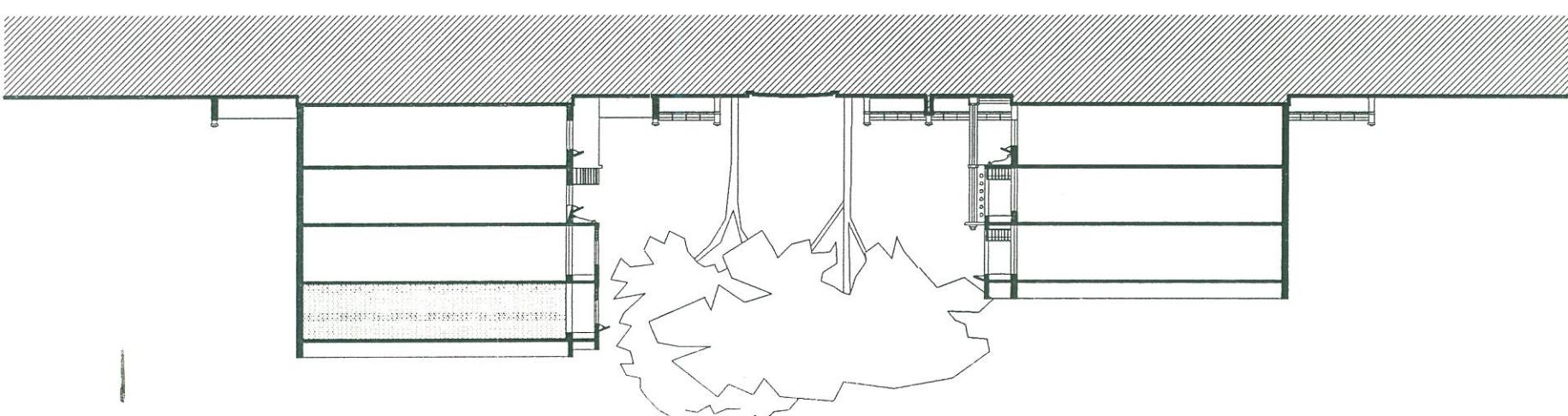
0 5 15 30m

WEST ELEVATION



0 5 15 30m

SECTION



STREETS (BHALCHANDRA ROAD)

Bhalchandra Road, on account of access to Tilak Road, acts as a thoroughfare, disturbing the residential character of the precinct. Transformations on this road are in building heights, some transformations in the form of new structures and some additions with external columns and a change in the land-use in terms of parking of vehicles of residents and their visitors.

Notes

0 5M 15M 30M

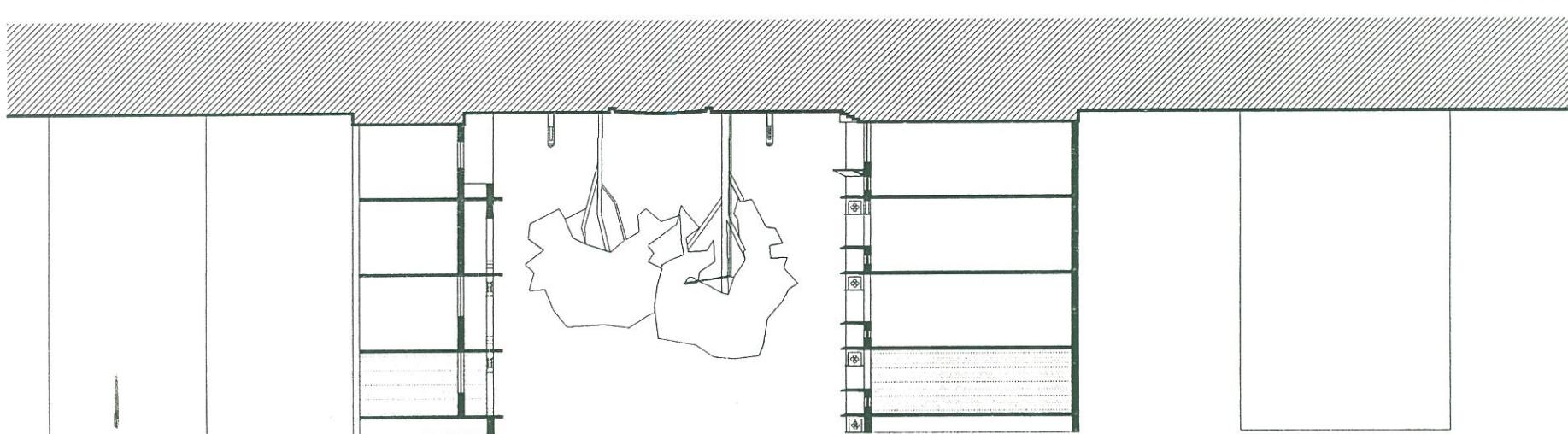
PLAN

0 5m 15m 30m

WEST ELEVATION

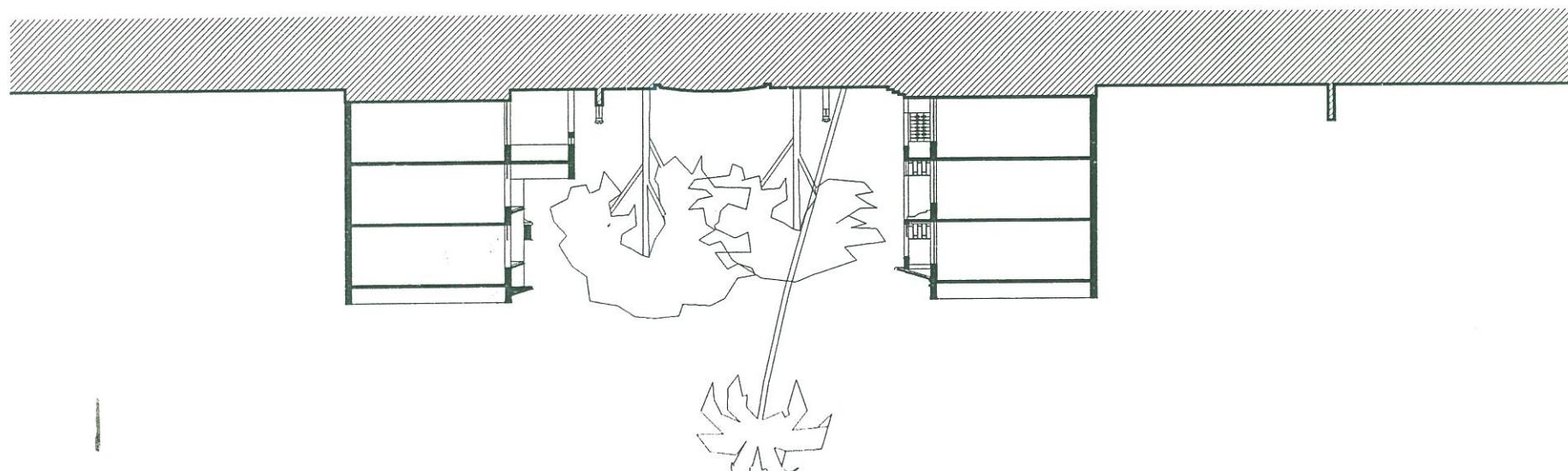
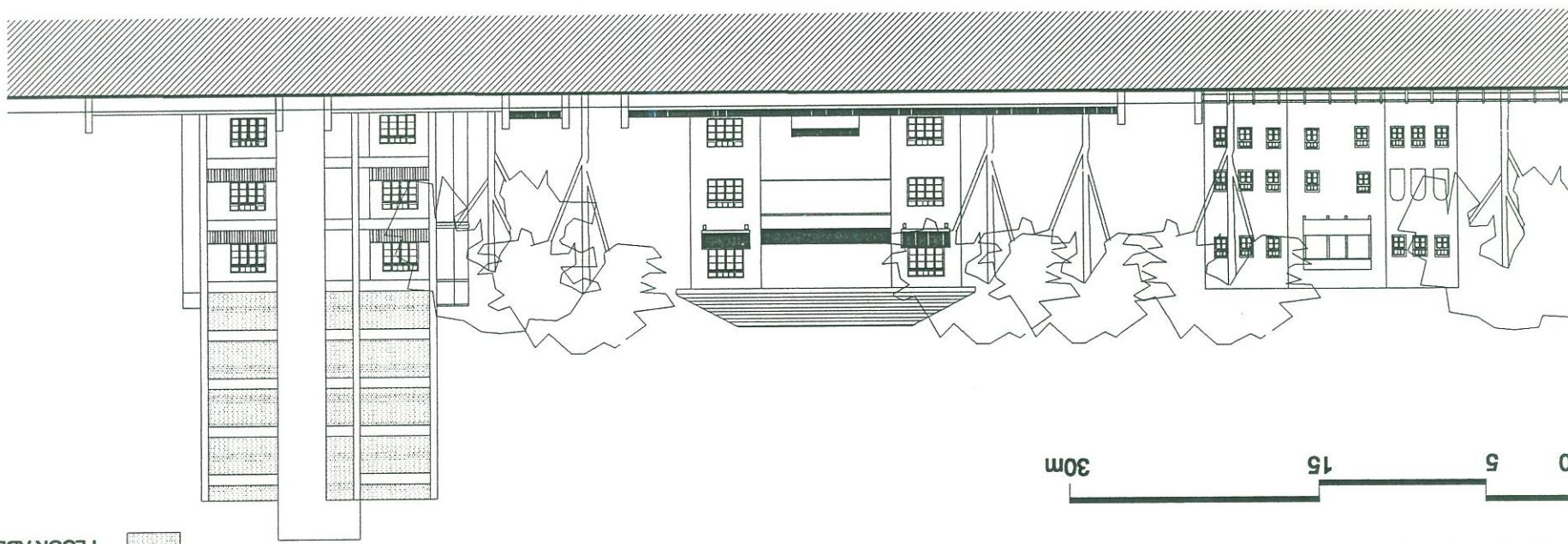
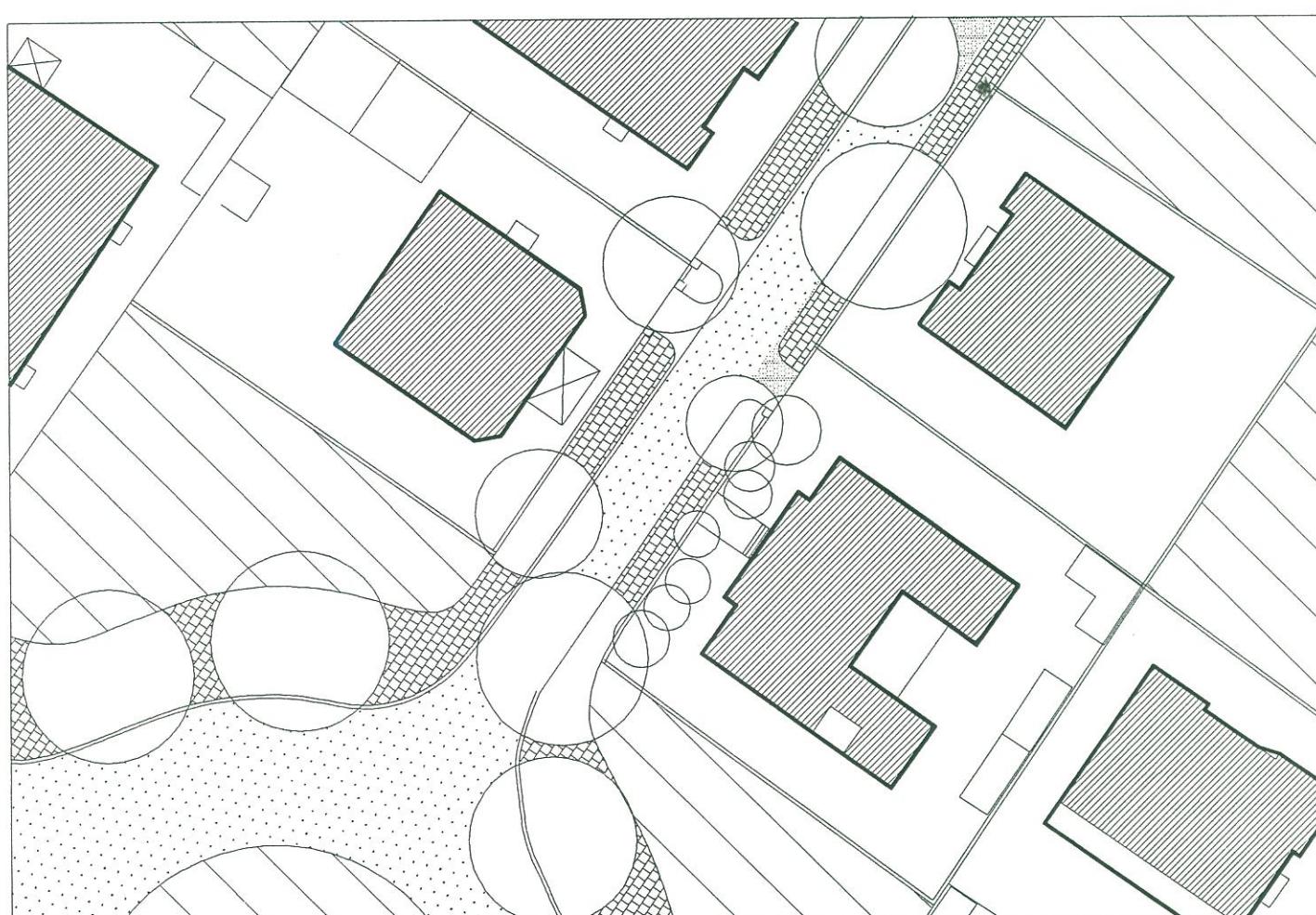
0 5 15 30m

SECTION



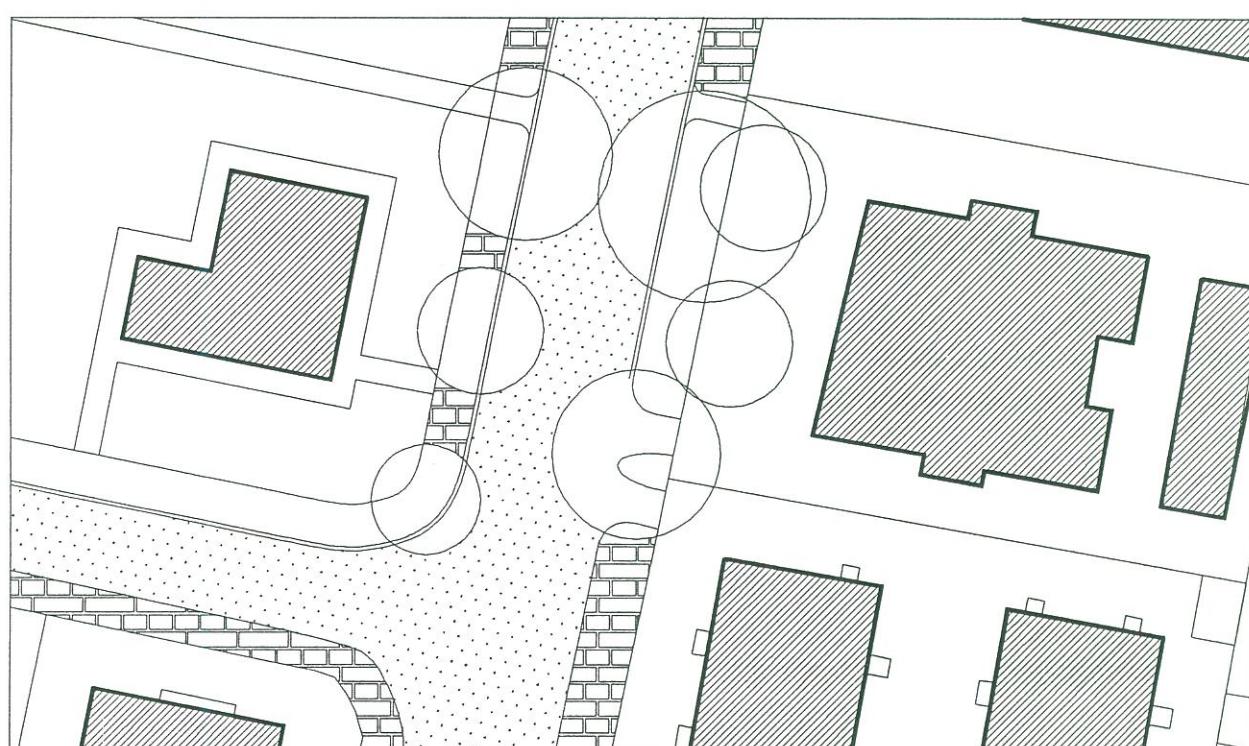
STREETS (JAME JAMSHED ROAD)

Notes
 Jame Jamshed Road lies in Parsi Colony and forms a residential street. The representative section taken on it shows that the transformation on this road is relatively less. At few places, however, as indicated in the elevation, the streetscape is ruptured in terms of building heights. Building height transformations are in the form of extended columns. There a few land-use changes in terms of off-street parking, however the problem is less acute than in the case of Hindu Colony.



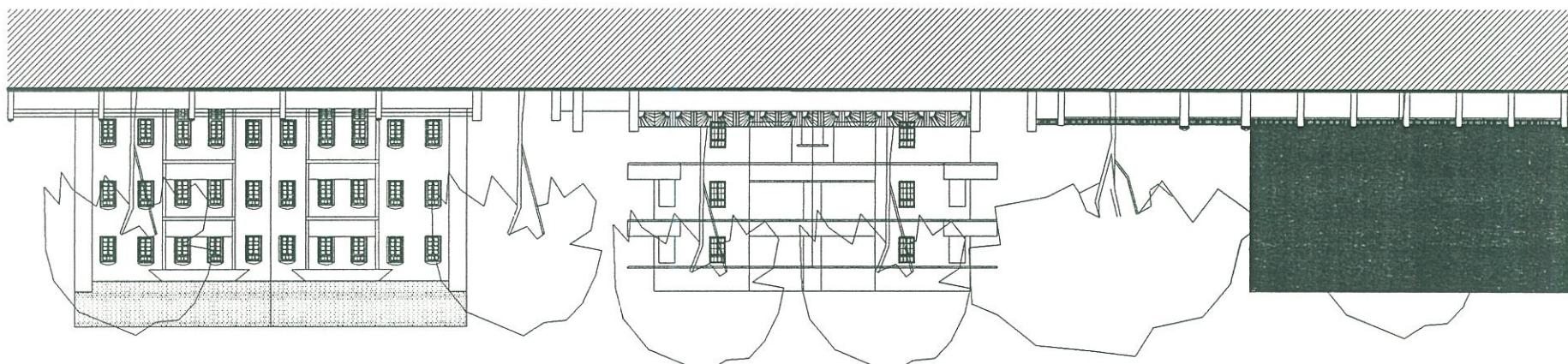
Notes
Adenwala road is located within Parsi colony and is a residential street. Transformations have occurred through change in building heights and the addition of new buildings as indicated in the sections. It forms a route for public transport but its over all residential character is retained.

0 5 15 30m
PLAN



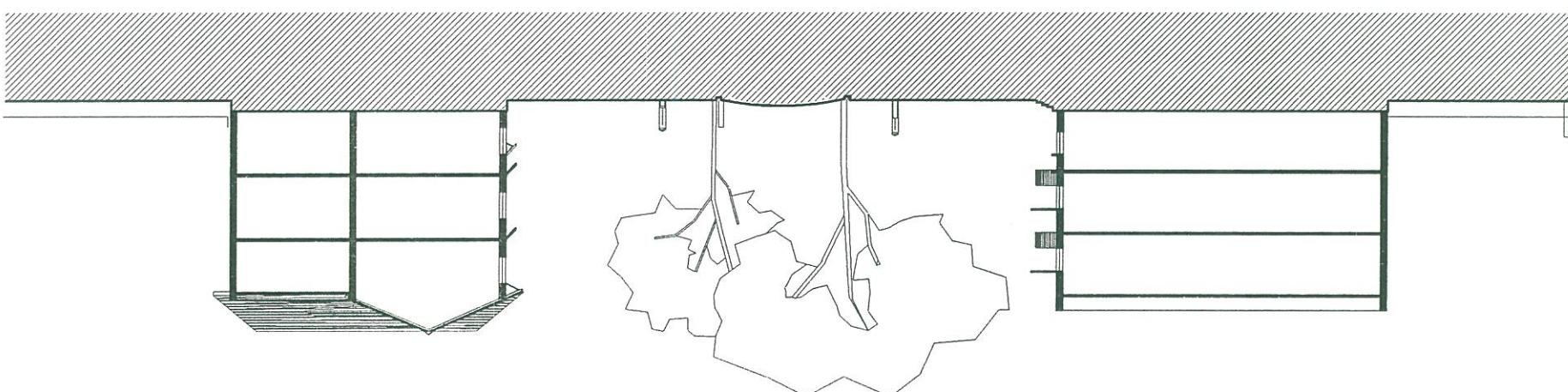
0 5 15 30m

FLOOR ADDED NEW STRUCTURE
WEST ELEVATION



0 5 15 30m

FLOOR ADDED
SECTION



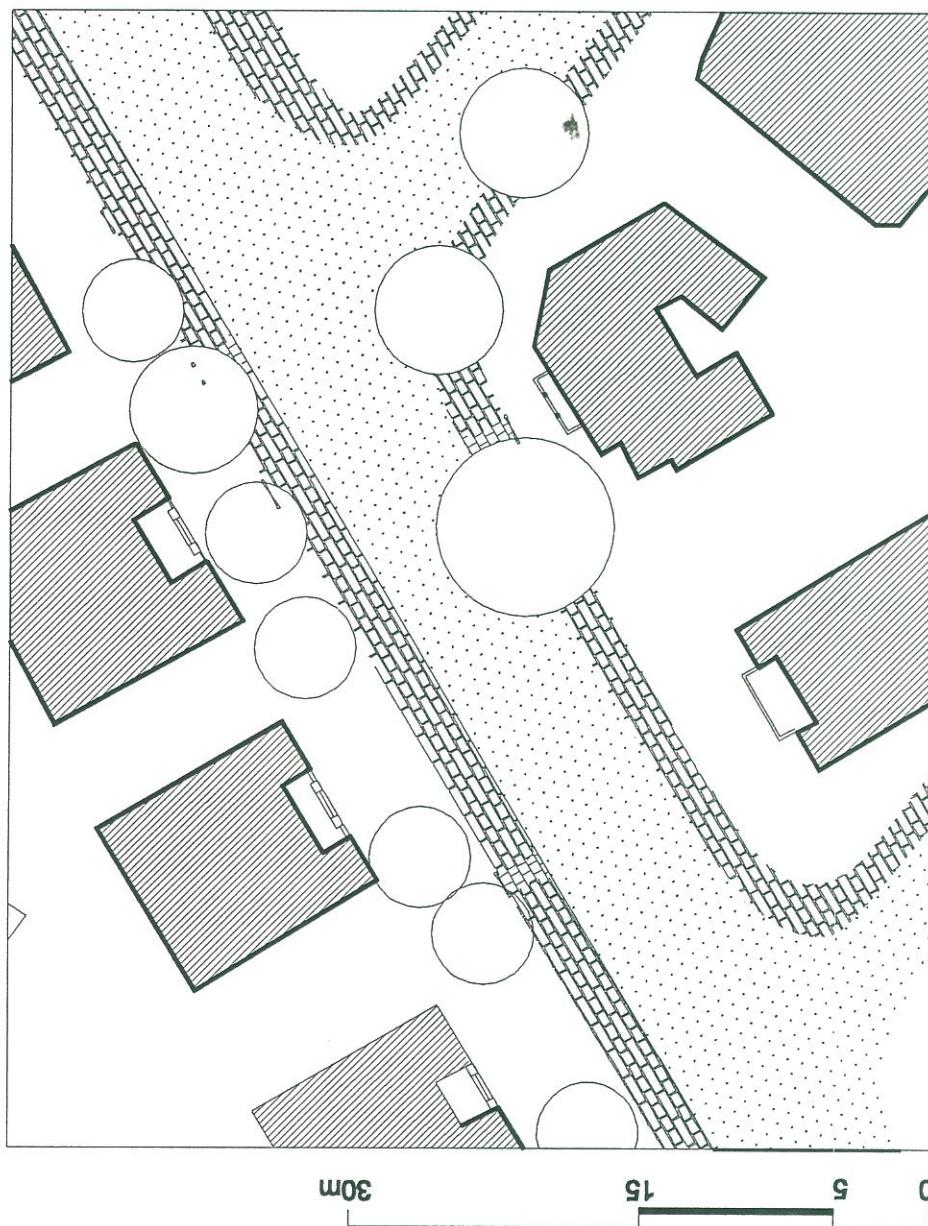
STREETS (LADY JEHANGIR ROAD)

Mancherji Joshi Road is a quiet residential street in Parsi colony. On this street there are fewer transformations owing to the presence of several buildings owned by the trust. The elevations indicated in the drawing are charity blocks belonging to the trust. Some of these are in a state of neglect and are structurally unsafe. However the overall character of this street is retained.

Notes

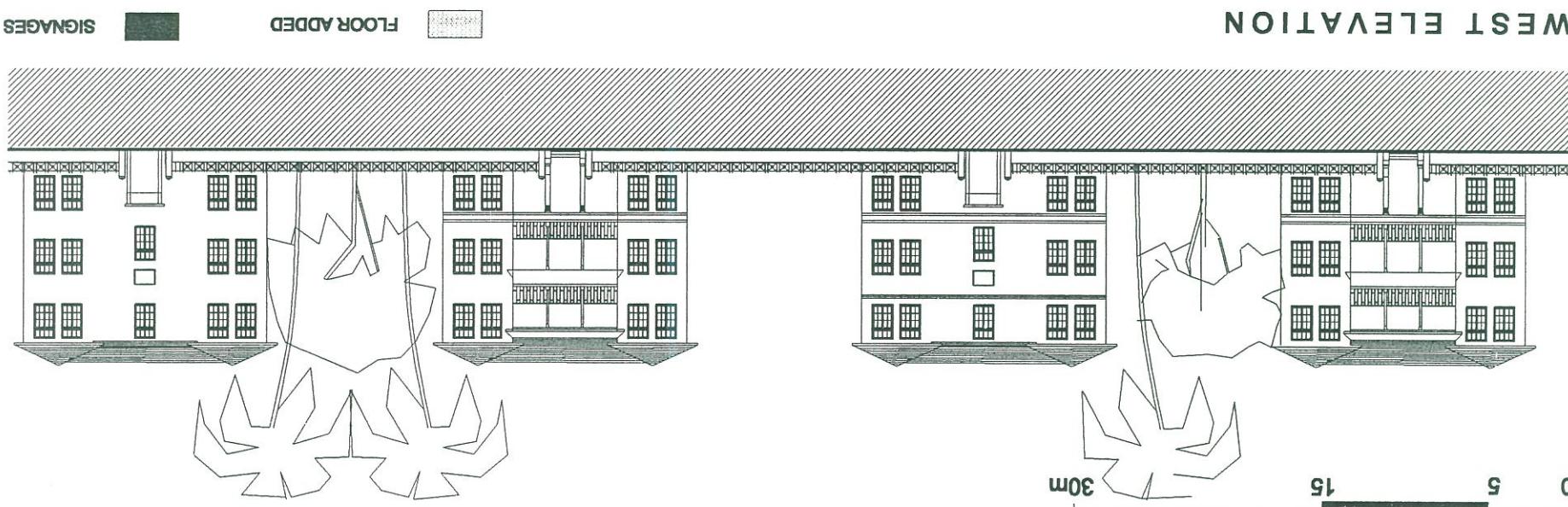
0 5 15 30m

PLAN



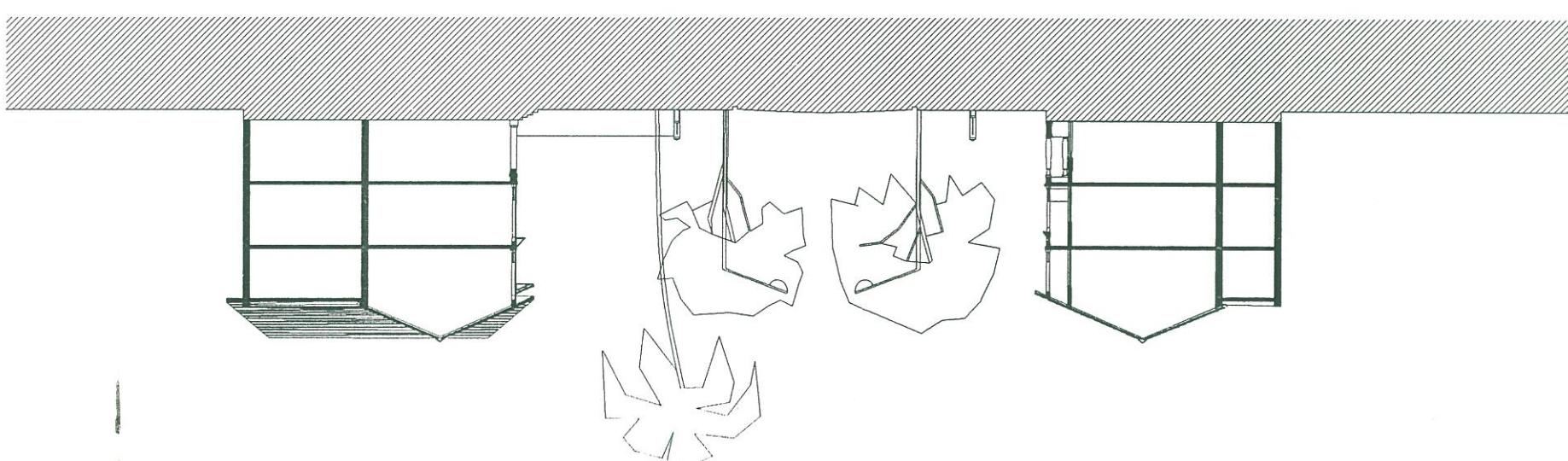
0 5 15 30m

WEST ELEVATION



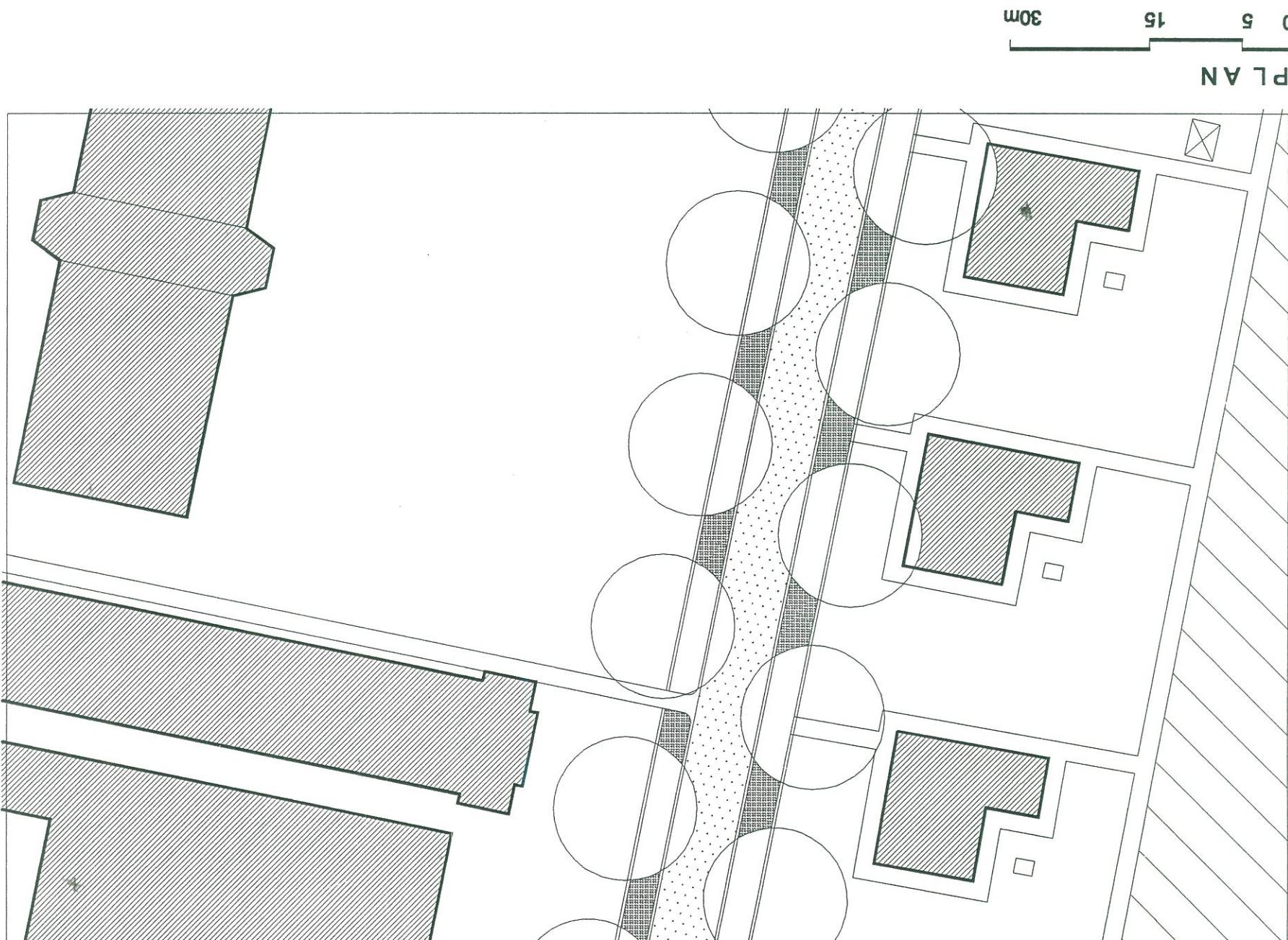
0 5 15 30m

SECTION



College road is an institutional road that has undergone no transformation and has therefore retained its original character.

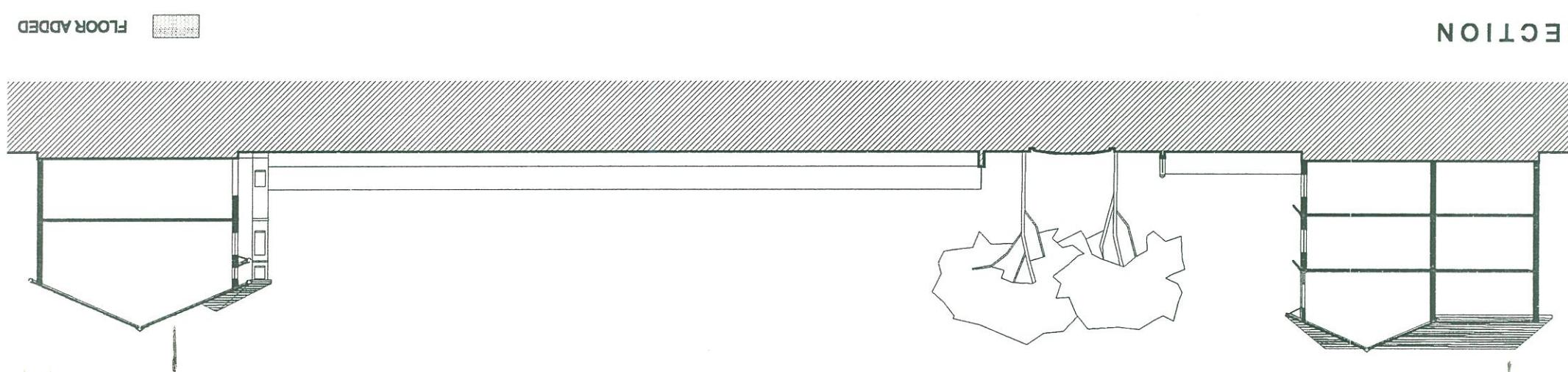
Notes



0 5 15 30m

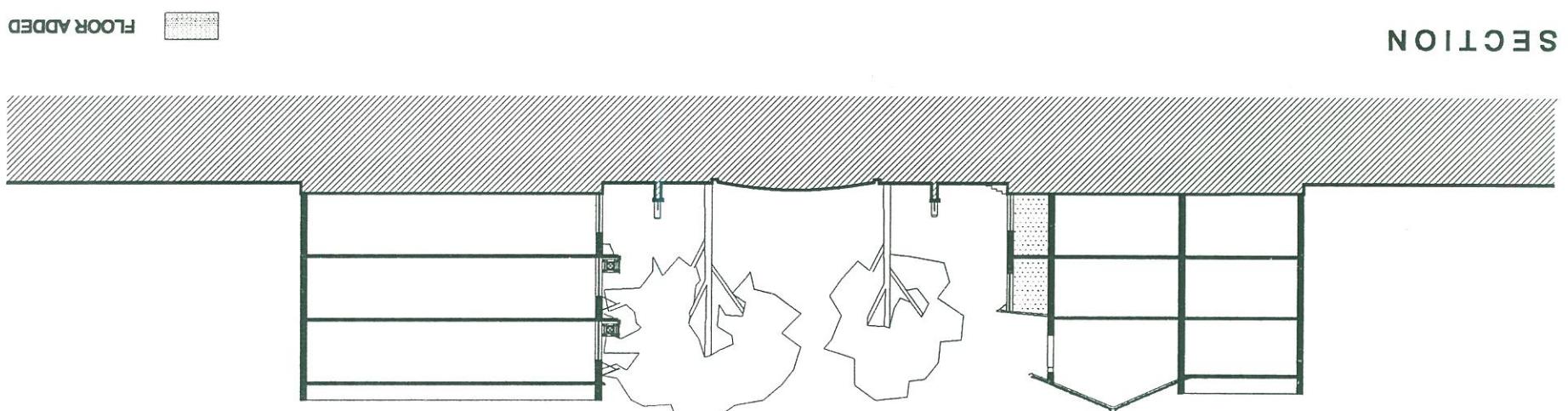
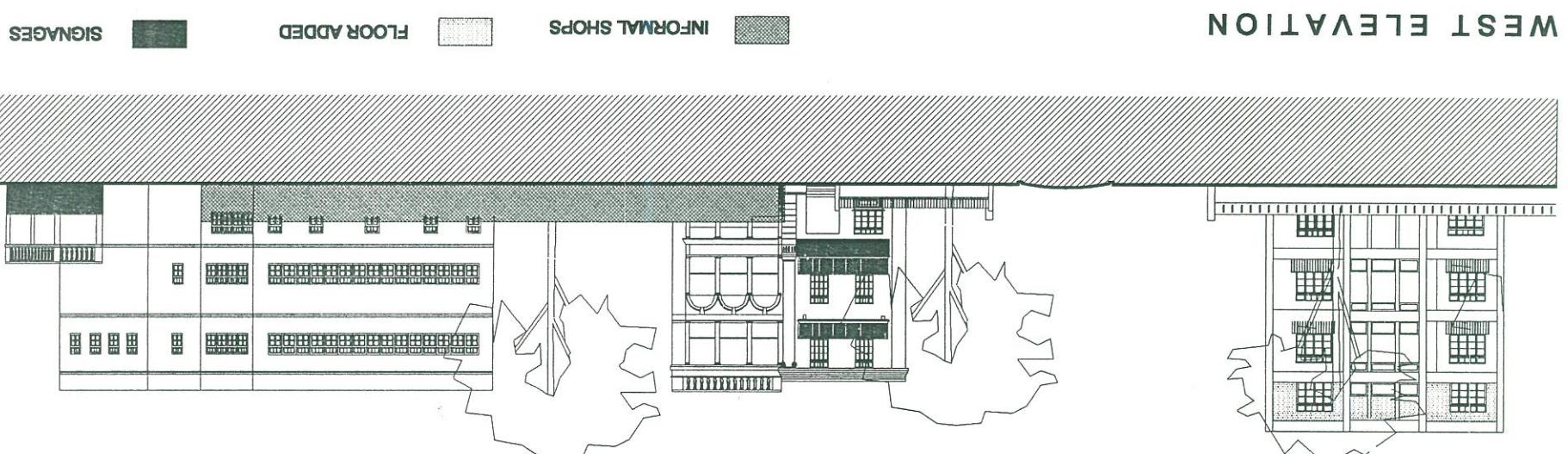
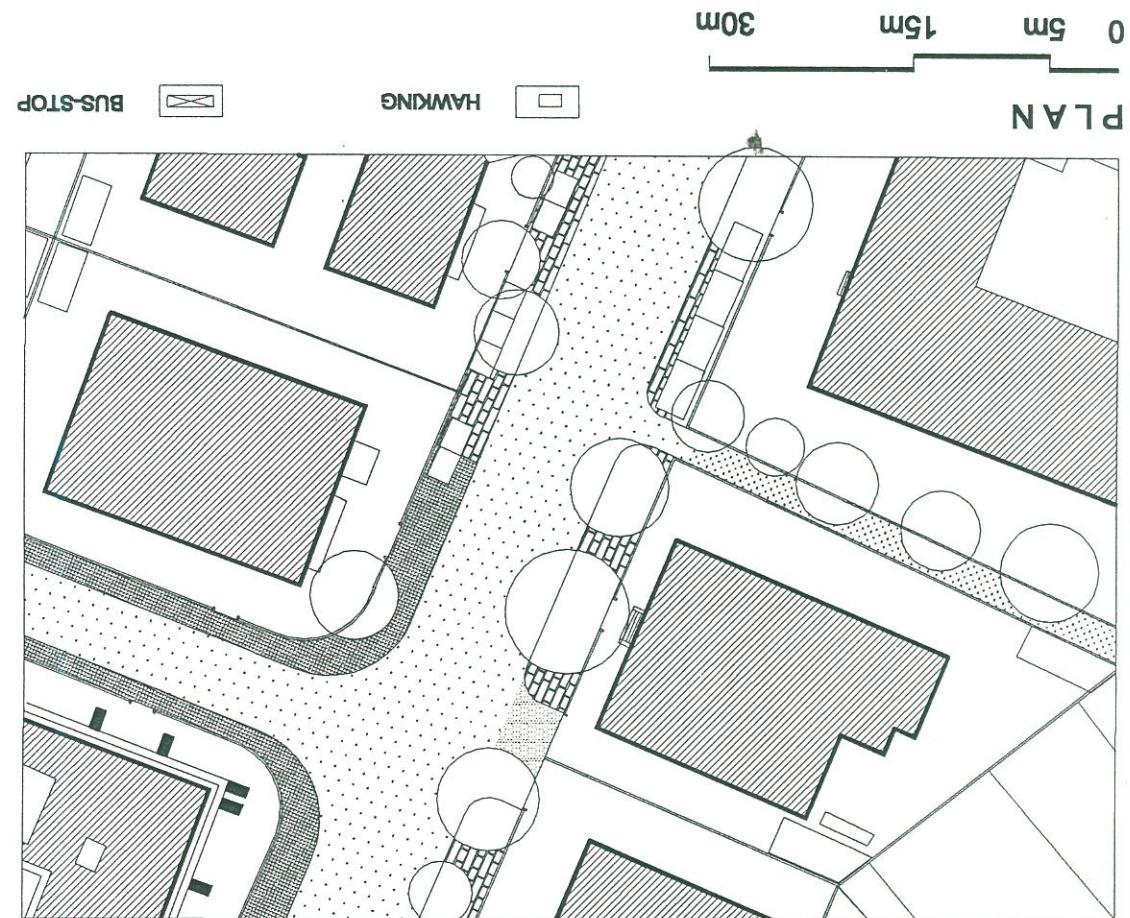


0 5 15 30m



Telang Road is a residential road. A representative section is taken on it in Matunga. Here transformations are in the form of building heights, informal shops as indicated in the drawing. Telang Road is a residential road. A representative section is taken on it in Matunga. Here transformations are in the form of building heights, informal shops as indicated in the drawing.

Notes



3. A completely new structure built by demolishing the old.
from the sides (fig 12).

There are certain types of buildings, which have evolved over time in the prehistoric period (plate 29). These types have been classified according to their residential type (bungallow or apartment), height, the nature of skin (fenestration, openings and projections); architectural language used, which have been recorded in detail (plate 30 to 38).

4.2.4. BUILDING TYPOLOGIES

A black and white photograph of a multi-story building, likely a residence or apartment complex. The building features a dark, possibly tiled, roofline with several rectangular windows. A prominent balcony with a decorative railing extends from the second floor on the right side. The entrance is located on the left, featuring a set of wide steps leading up to a porch with a small balcony. The overall architectural style appears to be a blend of traditional and modern elements.

An aerial photograph showing a large, multi-story residential or institutional building complex. The complex features several interconnected wings with multiple levels and numerous windows. In front of the main building, there is a large open area, possibly a courtyard or a parking lot, which appears to be under construction or renovation, as evidenced by the presence of several white, skeletal structures that look like they are being built or have recently been demolished. The surrounding area includes other buildings, trees, and what might be a body of water or a canal to the right.

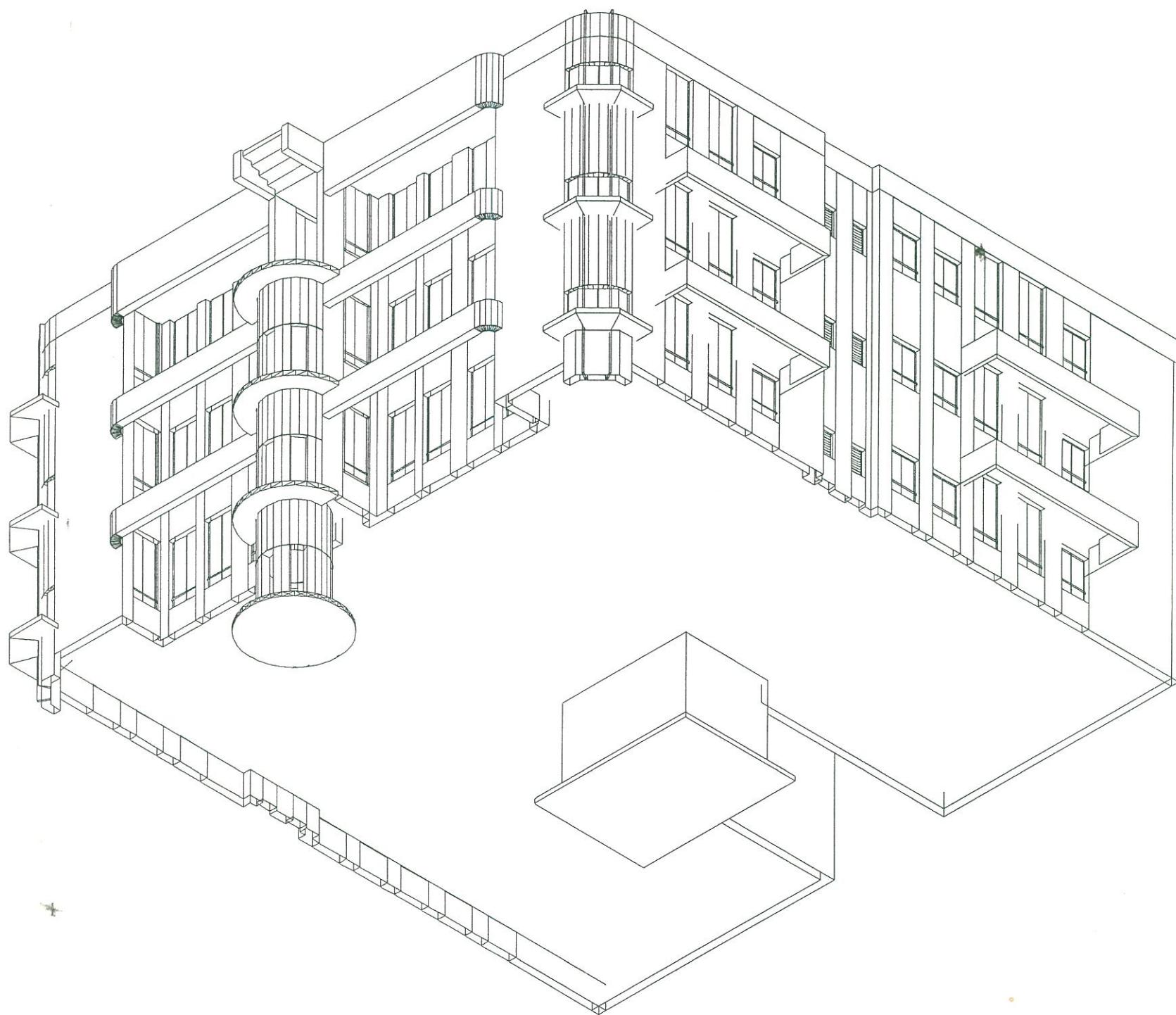
BUILDING TYPOLOGIES

0 60 100 200 500 m

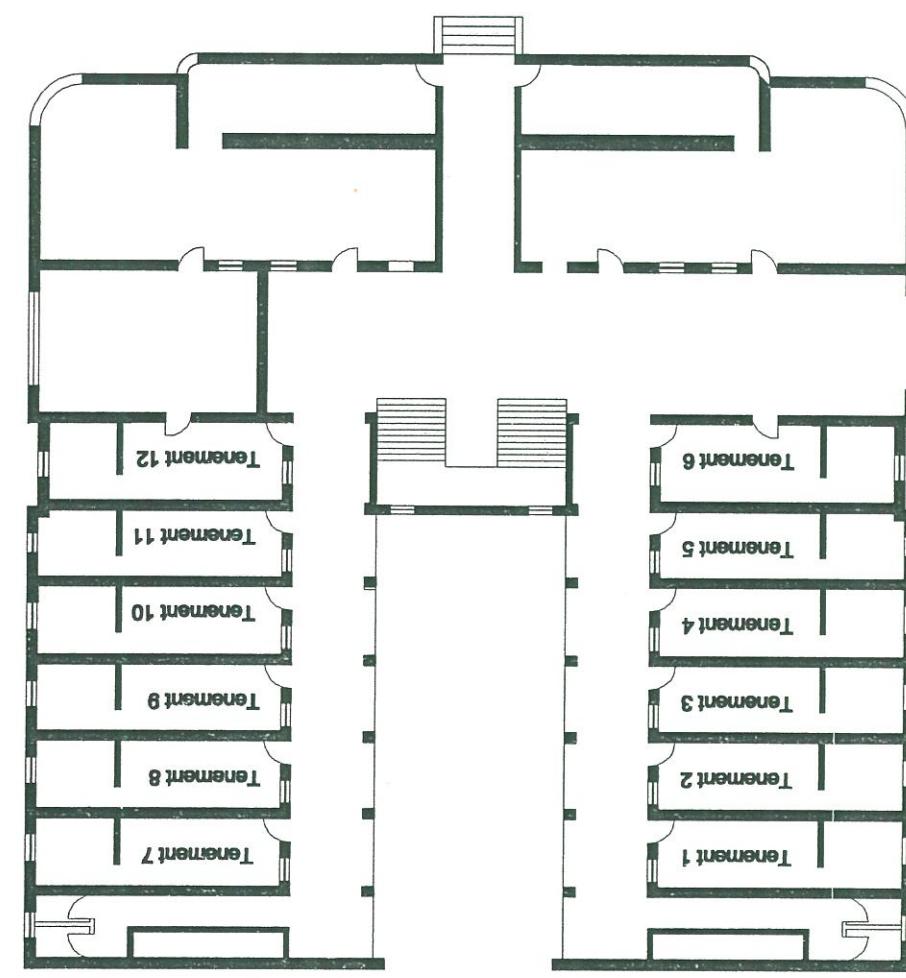
The precinct has developed from 1920 - 1940 and has variation in typologies. Eight such variations have been observed which are identified in the precinct.

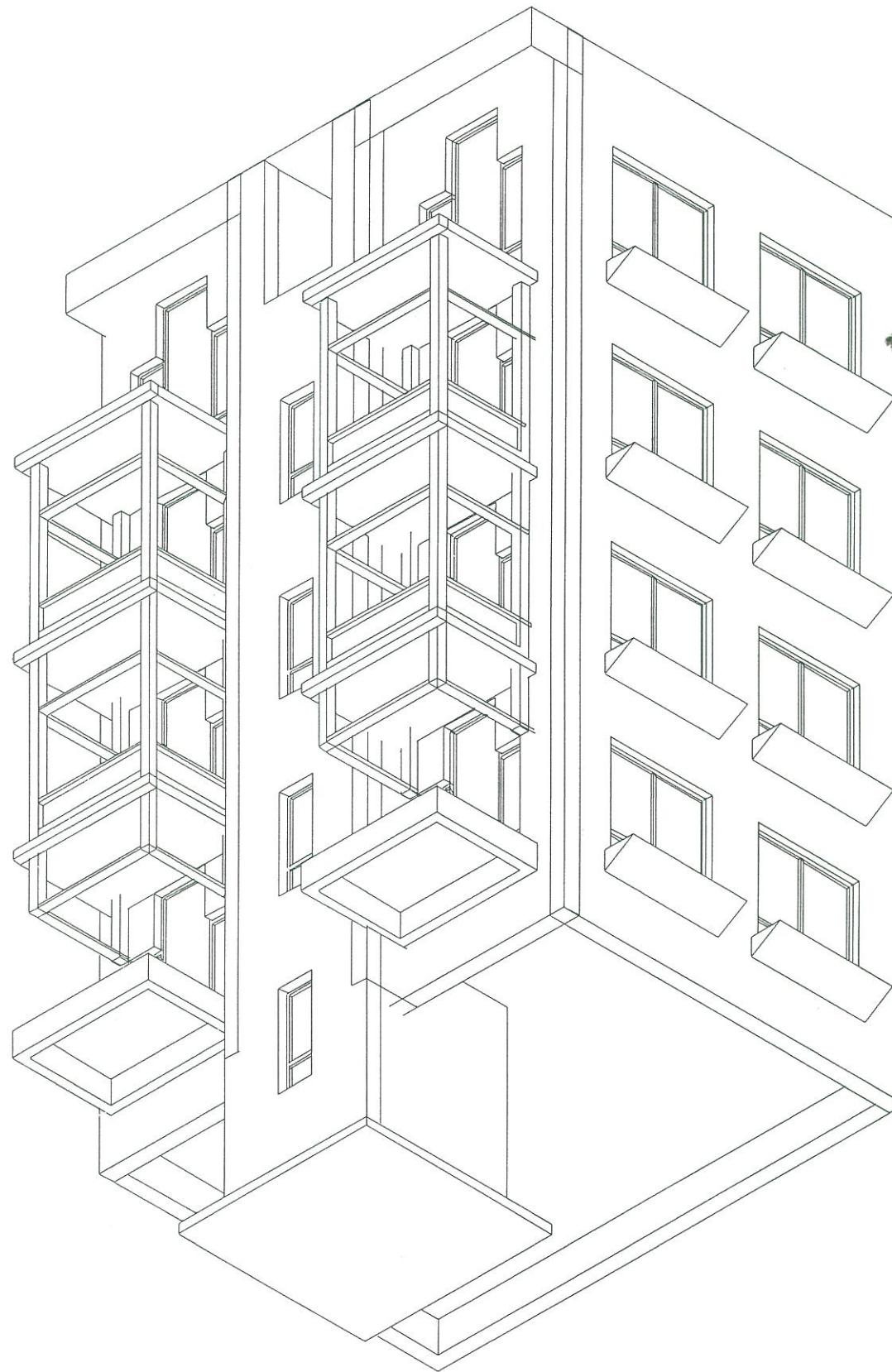
Notes



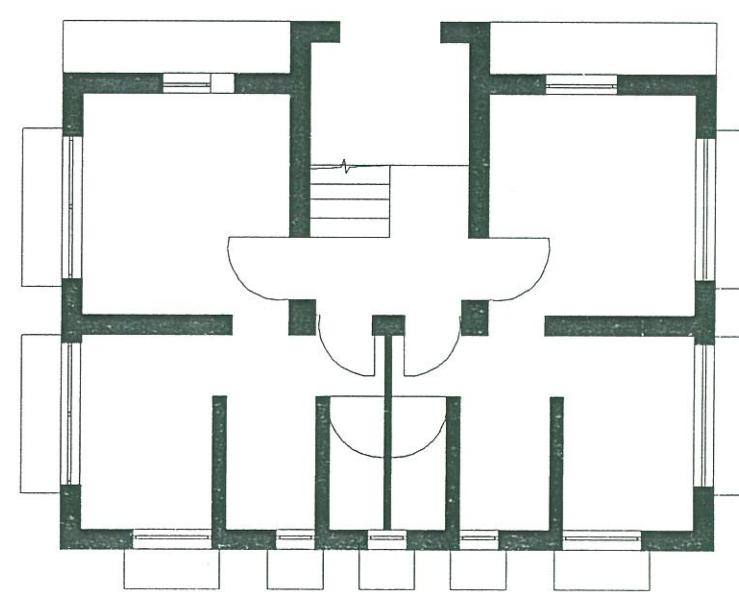


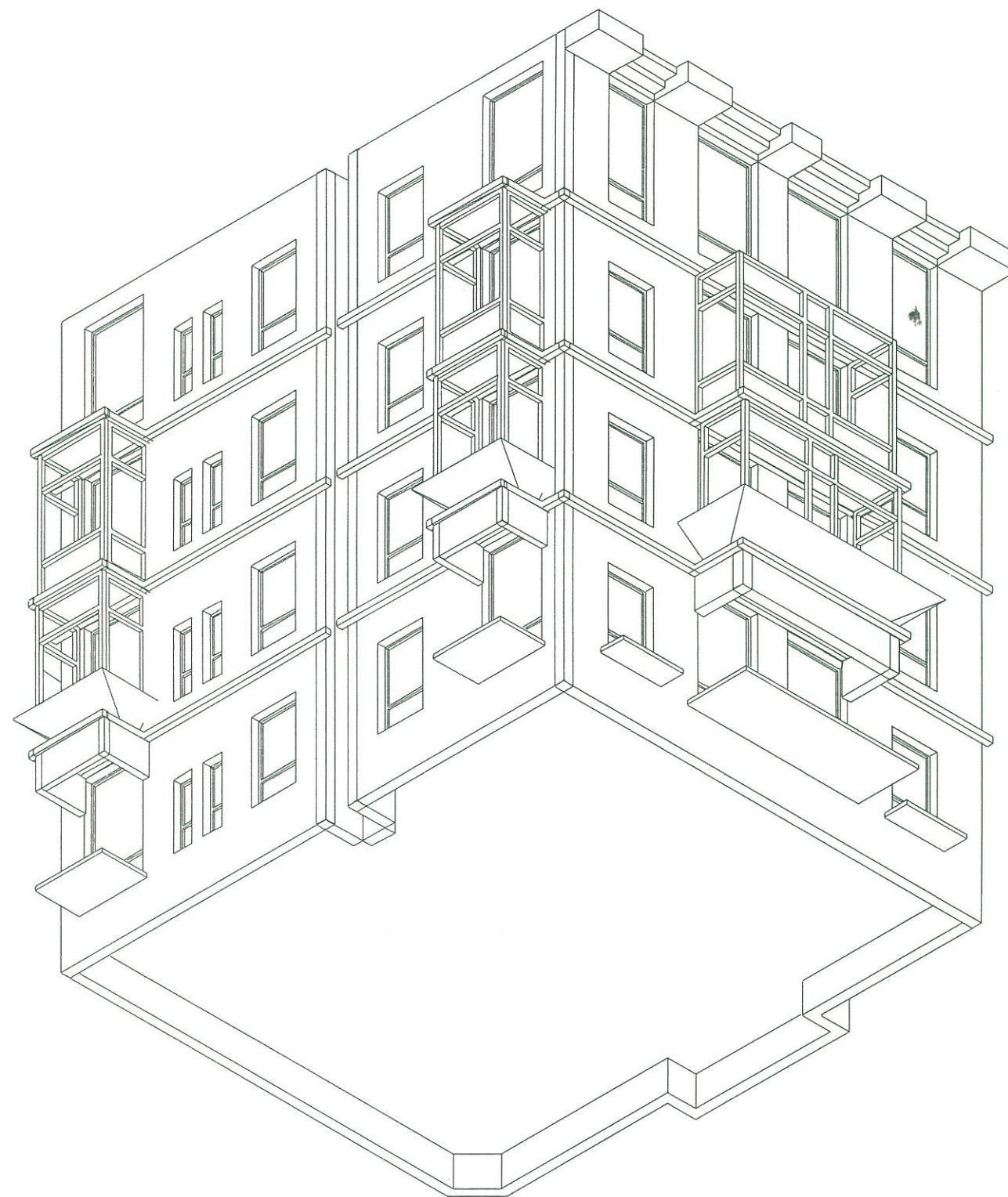
TYPOLOGY 1	IDENTIFICATION	PLT NO.	LOCATION (AREA)	(ROAD)	DR BABASAHEB	HINDU COLONY	AMBEDKER RD.	TIME OF CONSTRUCTION	NO. OF TENANTS	PHYSICAL	PLT AREA (Sqm)	GROUND COVERAGE (Sqm)	10.75	4180	BUILDING VOLUME (Cu. M.)	7.00	SIDE BACKS FRONT (M)	6.85	SIDE 1 (M)	9.30	SIDE 2 (M)	17.45	BACK (M)	17.45	FSI CONSUMED	1.00	NO. OF FLOORS	G + 2	CONSTRUCTION TECHNOLOGY	R.C.C.	ROOF PROFILE	FLAT ROOF
545							1932AD.	36			4000	420 + (40)																				



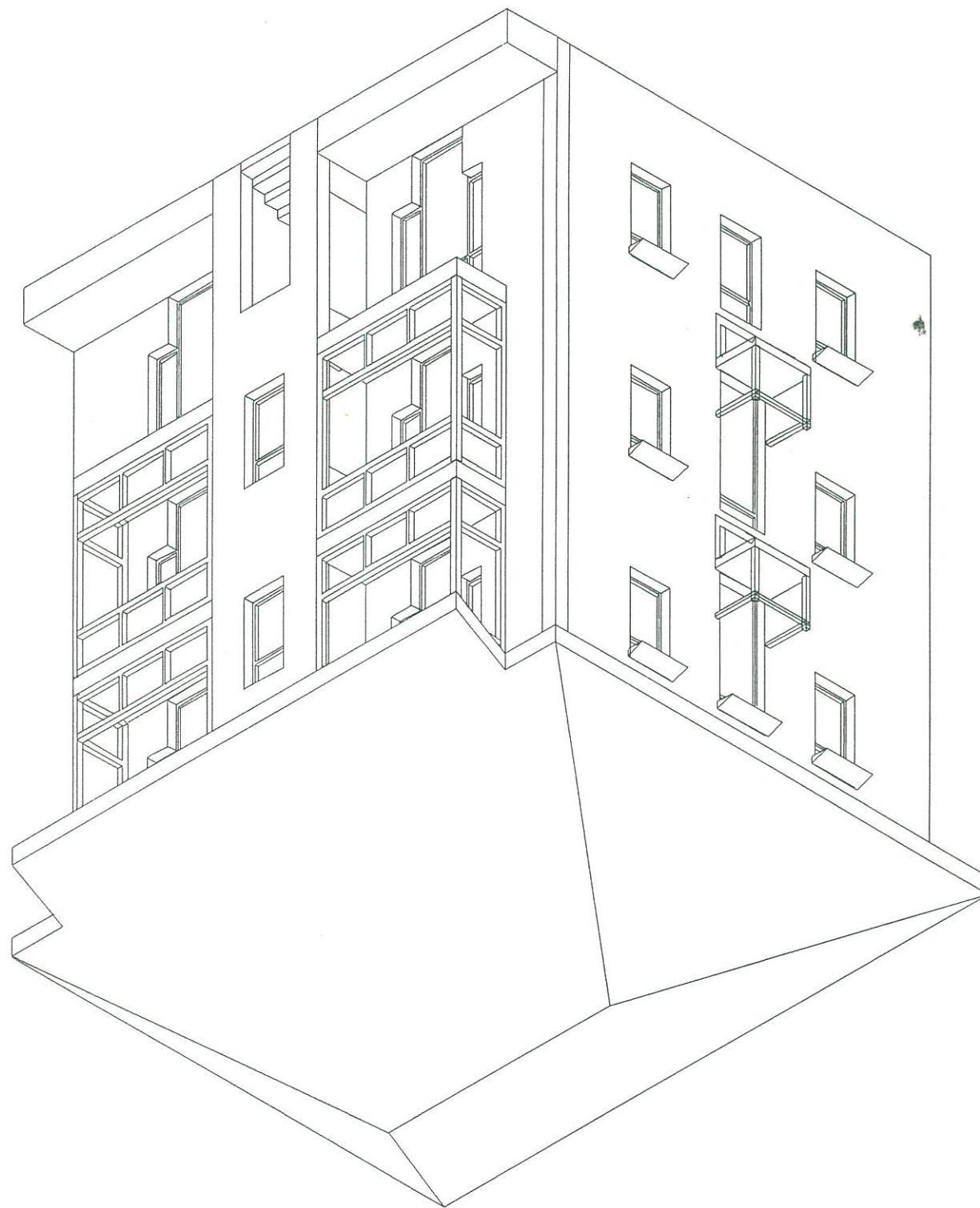


TYPOLOGY 2	IDENTIFICATION	PLOT NO.	HINDU COLONY	LOCATION (AREA)	(ROAD)	SIR BHALCHANDRA RD.
1932 A.D.	TIME OF CONSTRUCTION	8	317	NO. OF TENANTS	PHYSICAL	PHYSICAL
1932 A.D.	TIME OF CONSTRUCTION	8	800	PLOT AREA (SQ.M.)	GROUND COVERAGE (SQ.M)	% OF PLOT COVERAGE
1932 A.D.	TIME OF CONSTRUCTION	8	305	4600	BUILDING VOLUME (CU. M.)	BUILDING HEIGHT (M)
1932 A.D.	TIME OF CONSTRUCTION	8	4.75	4.75	SET BACKS FRONT (M)	SET BACKS BACK (M)
1932 A.D.	TIME OF CONSTRUCTION	8	3.75	3.00	BACK (M)	BACK (M)
1932 A.D.	TIME OF CONSTRUCTION	8	4.00	4.00	SIDE 1 (M)	SIDE 1 (M)
1932 A.D.	TIME OF CONSTRUCTION	8	1.33	1.33	SIDE 2 (M)	SIDE 2 (M)
1932 A.D.	TIME OF CONSTRUCTION	8	6 + 3	6 + 3	FSI CONSUMED	FSI CONSUMED
1932 A.D.	TIME OF CONSTRUCTION	8			NO. OF FLOORS	NO. OF FLOORS
1932 A.D.	TIME OF CONSTRUCTION	8			CONSTRUCTION TECHNOLOGY	FL.B. & WOODEN
1932 A.D.	TIME OF CONSTRUCTION	8			ROOF PROFILE	FLAT ROOF

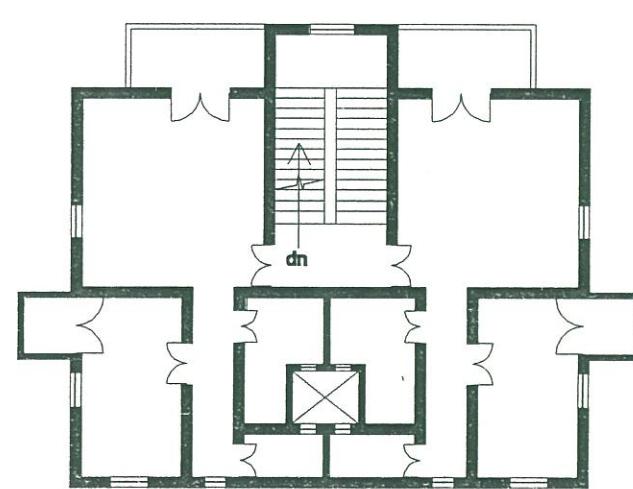


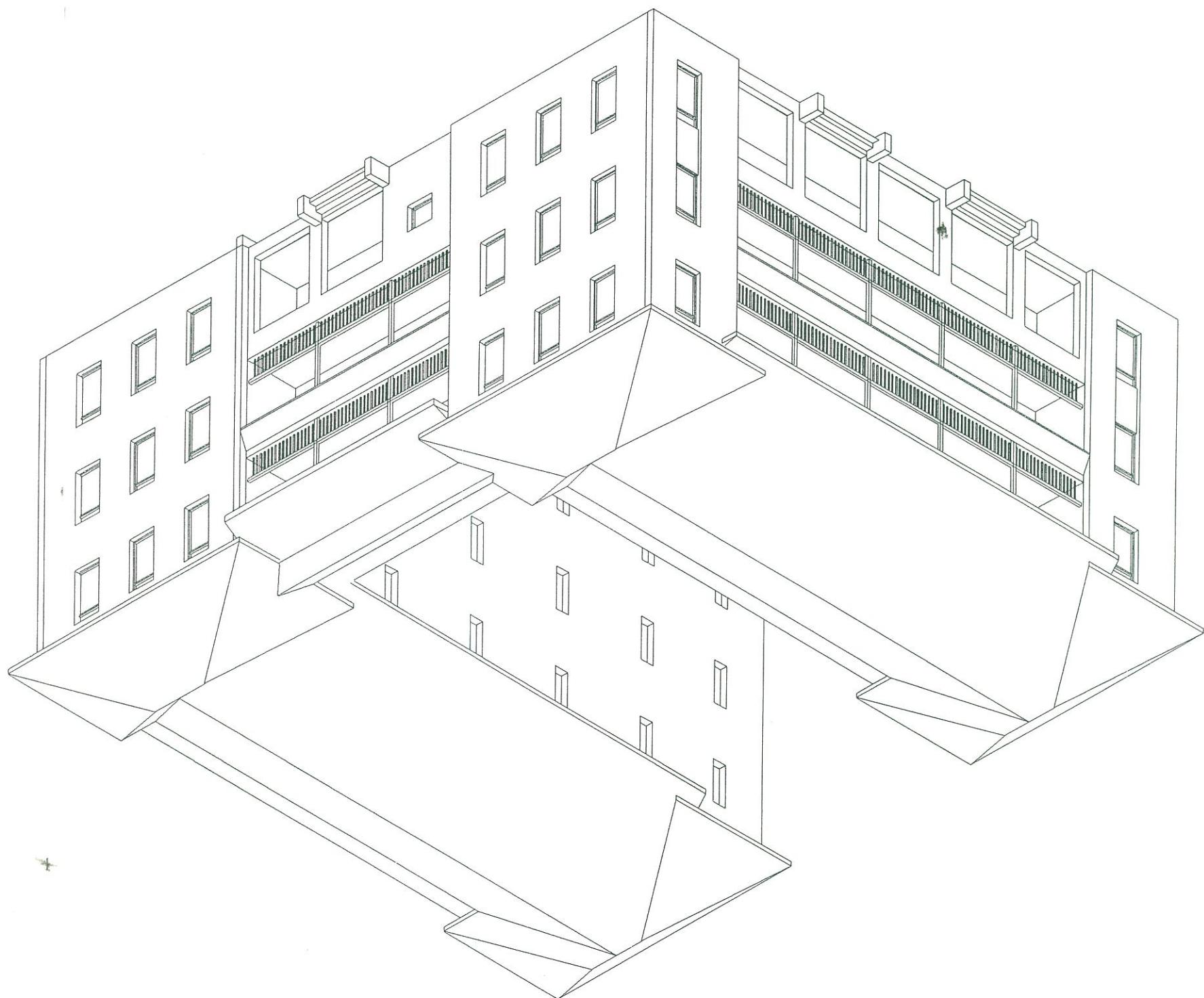


IDENTIFICATION	
PLOT NO.	TYPOLOGY 3
61	IDENTIFICATION
HINDU COLONY	LOCATION (AREA)
D.V. PRADHAN ROAD	(ROAD)
1933 A.D.	TIME OF CONSTRUCTION
G. FL. COMMERCIAL + SERVANTS	NO. OF TENANTS
UPPER FLOORS 12 RESIDENTS	PHYSICAL
350	PLOT AREA (SQA.M)
105	GROUND COVERAGE (SQA. M)
34%	% OF PLOT COVERAGE
13.4	BUILDING HEIGHT (M)
4690	BUILDING VOLUME (CU. M.)
6.95	SET BACKS FRONT (M)
445	BACK (M)
7.00	SIDE 1 (M)
4.60	SIDE 2 (M)
1.33	FSI CONSUMED
G + 3	NO. OF FLOORS
L.B. & WOODEN	CONSTRUCTION TECHNOLOGY
FLAT ROOF	ROOF PROFILE

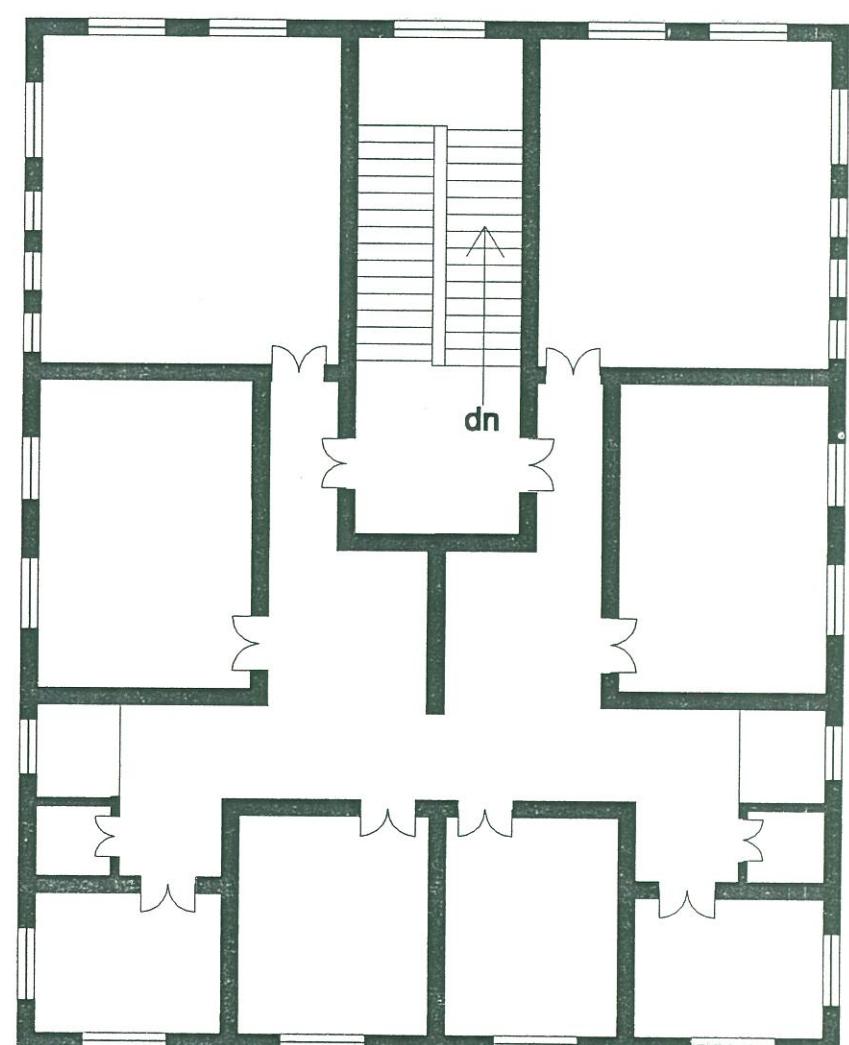


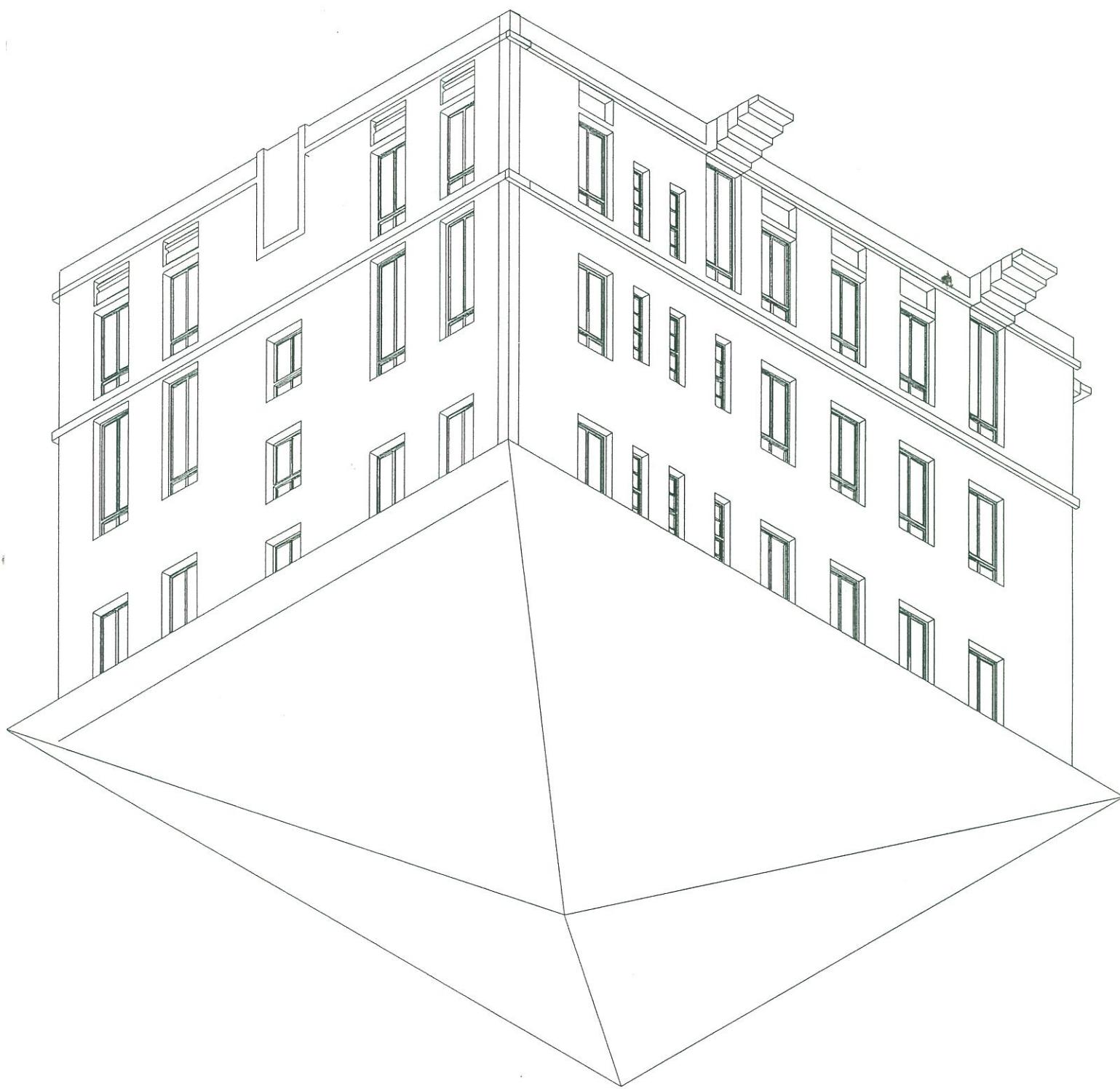
TYPOLOGY 4	IDENTIFICATION	PLOT NO.	LOCATION (AREA)	(ROAD)	MANCHERJI	JOSHI ROAD	TIME OF CONSTRUCTION	PARSI COLONY
639							1929 AD.	
825	PHYSICAL	PLOT AREA (Sqm.)	GROUNDS COVERAGE (Sqm.)	BUILDING HEIGHT (M)	2850	11.4	% OF PLOT COVERAGE	33%
825				SET BACKS FRONT (M)	7.35	7.45	BUILDING VOLUME (cu. M.)	2850
5.9	SIDE 1 (M)	5.35	FSI CONSUMED	SIDE 2 (M)	5.35	5.9	NO. OF FLOORS	6 + 2
7.45	BACK (M)	7.45	FSI CONSUMED	BACK (M)	5.35	5.9	CONSTRUCTION TECHNOLOGY	L.B. & TW
							ROOF PROFILE	PITCHED ROOF



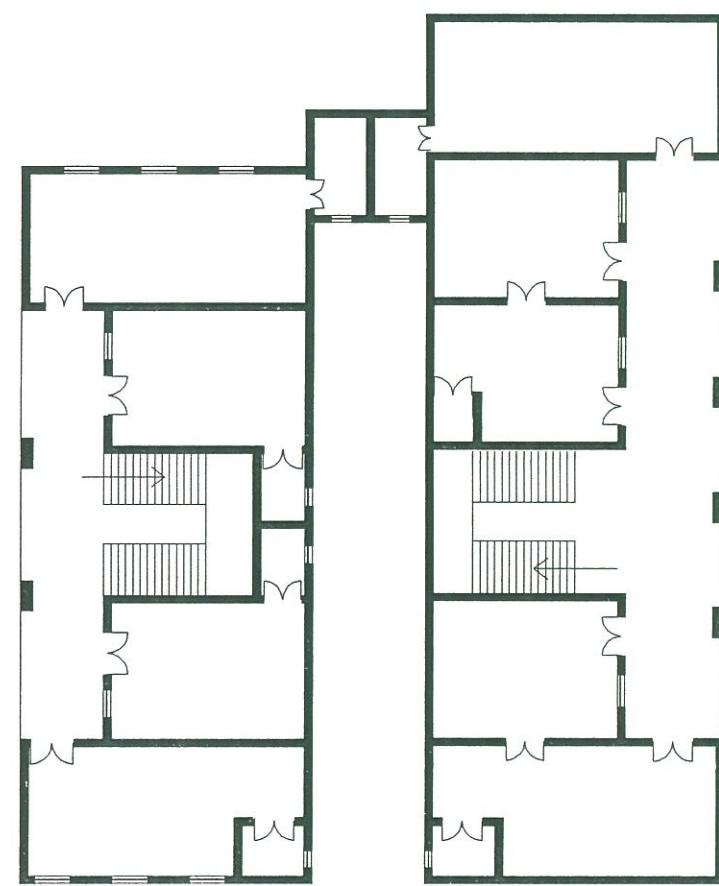


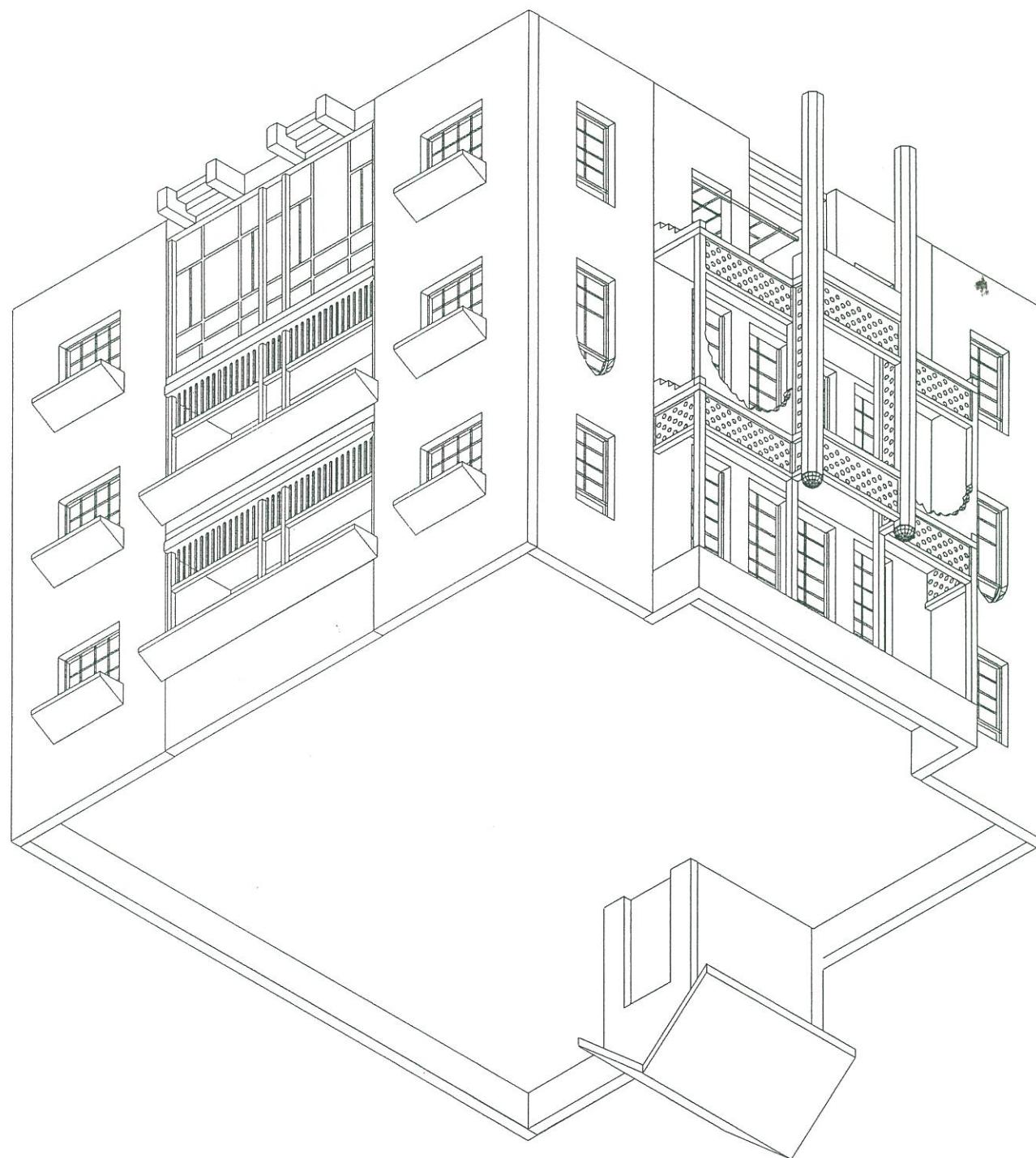
TYPOLOGY 5	IDENTIFICATION	LOT NO.	PARSI COLONY	MANCHERI	JOSHI RD.	TIME OF CONSTRUCTION	NO. OF TENANTS	PHYSICAL	PLOT AREA (Sqm.)	GROUND COVERAGE (Sqm.)	BUILDING HEIGHT (M)	BUILDING VOLUME (Cub. M.)	SET BACKS FRONT (M)	SIDE 1 (M)	SIDE 2 (M)	FSI CONSUMED	NO. OF FLOORS	CONSTRUCTION TECHNOLOGY LB & TW	PITCHED ROOF	
783	IDENMFICATION	783	PARSI COLONY	MANCHERI	JOSHI RD.	1824AD.	32 BEDS (HOSTEL)	PHYSICAL	3375	265 + (705)	11.75	2860	8.33	8.55	8.00	8.50	10.25	1.00	G+2	CONSTRUCTION TECHNOLOGY LB & TW
	(ROAD)	LOCATION (AREA)	LOT NO.	PARSI COLONY	MANCHERI	JOSHI RD.	NO. OF TENANTS	PHYSICAL	3375	265 + (705)	11.75	2860	8.33	8.55	8.00	8.50	10.25	1.00	G+2	PITCHED ROOF
		LOCATION (AREA)	LOT NO.	PARSI COLONY	MANCHERI	JOSHI RD.	TIME OF CONSTRUCTION	NO. OF TENANTS	PHYSICAL	PLOT AREA (Sqm.)	GROUND COVERAGE (Sqm.)	BUILDING HEIGHT (M)	BUILDING VOLUME (Cub. M.)	SET BACKS FRONT (M)	SIDE 1 (M)	SIDE 2 (M)	FSI CONSUMED	NO. OF FLOORS	CONSTRUCTION TECHNOLOGY LB & TW	PITCHED ROOF



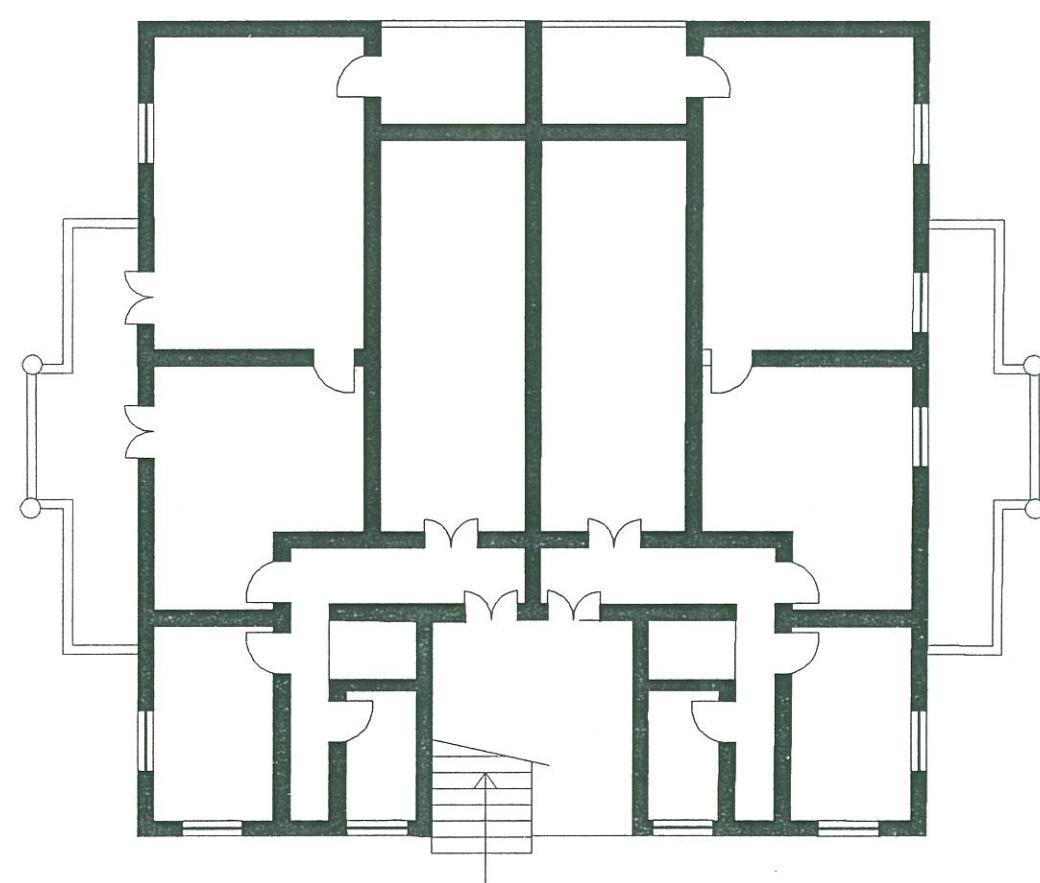


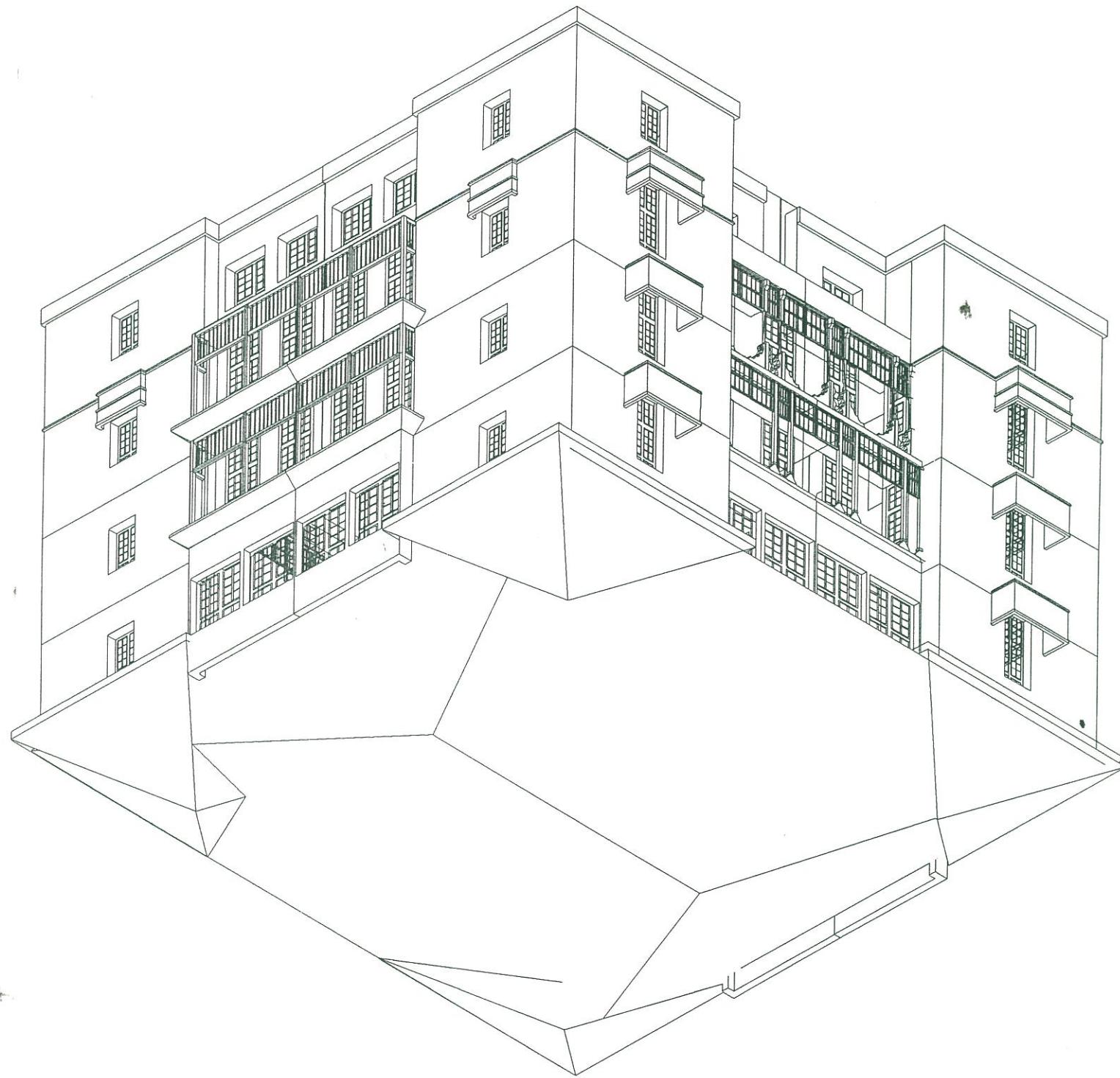
TYPOLOGY 6	IDENTIFICATION	PLOT NO.	PARSI COLONY	DR. DINSHAW	MASTER RD.	1925 AD.	TIME OF CONSTRUCTION	NO. OF TENANTS	PHYSICAL	PLOT AREA (S.Q.M)	GROUNDS COVERAGE (S.Q.M)	BUILDING HEIGHT (M)	BUILDING VOLUME (CUB. M.)	SET BACKS FRONT (M)	SIDE 1 (M)	SIDE 2 (M)	FSI CONSUMED	NO. OF FLOORS	CONSTRUCTION TECHNOLOGY LB&A.T.W.	ROOF PROFILE	PITCHED ROOF	
996	(ROAD)	LOCATION (AREA)	PARSI COLONY	DR. DINSHAW	MASTER RD.	1925 AD.	TIME OF CONSTRUCTION	NO. OF TENANTS	PHYSICAL	PLOT AREA (S.Q.M)	GROUNDS COVERAGE (S.Q.M)	BUILDING HEIGHT (M)	BUILDING VOLUME (CUB. M.)	SET BACKS FRONT (M)	SIDE 1 (M)	SIDE 2 (M)	FSI CONSUMED	NO. OF FLOORS	CONSTRUCTION TECHNOLOGY LB&A.T.W.	ROOF PROFILE	PITCHED ROOF	
12																						
3320																						
275 + (680)																						
35%																						
13.5																						
7.85																						
3.85																						
9.8																						
7.10																						
1.00																						
6.2																						





TYPOLOGY 7	IDENTIFICATION	PLOT NO.	HINDU COLONY
5TH LANE	LOCATION (AREA)	(ROAD)	
1932 A.D.	TIME OF CONSTRUCTION		
6	NO. OF TENANTS		
880	PLOT AREA (SQA.M)	190	GROUND COVERAGE (SQA. M)
11.75	BUILDING HEIGHT (M)	2230	BUILDING VOLUME (CU. M.)
6.00	SET BACKS FRONT (M)	6.00	SET BACKS BACK (M)
5.60	SIDE 1 (M)	4.00	SIDE 2 (M)
4.70	BACK (M)	4.00	FSI CONSUMED
4.00	SET BACKS (M)	1.00	NO. OF FLOORS
1.00	FSI (M)	6 + 2	ROOF PROFILE
			FLAT ROOF
			CONSTRUCTION TECHNOLOGY: B. & WOODEN





TYPOLOGY 8

(ROAD)

LOCATION (AREA)

PLOT NO.

IDENTIFICATION

PARSI COLONY

MANCHERI JOSHI RD.

1929 A.D.

TIME OF CONSTRUCTION

1680

PLOT AREA (SQ.M)

420

GROUNDS COVERAGE (SQ.M)

14.50

BUILDING HEIGHT (M)

7.00

SET BACKS FRONT (M)

6.85

SIDE 1 (M)

9.30

SIDE 2 (M)

1.33

FSI CONSUMED

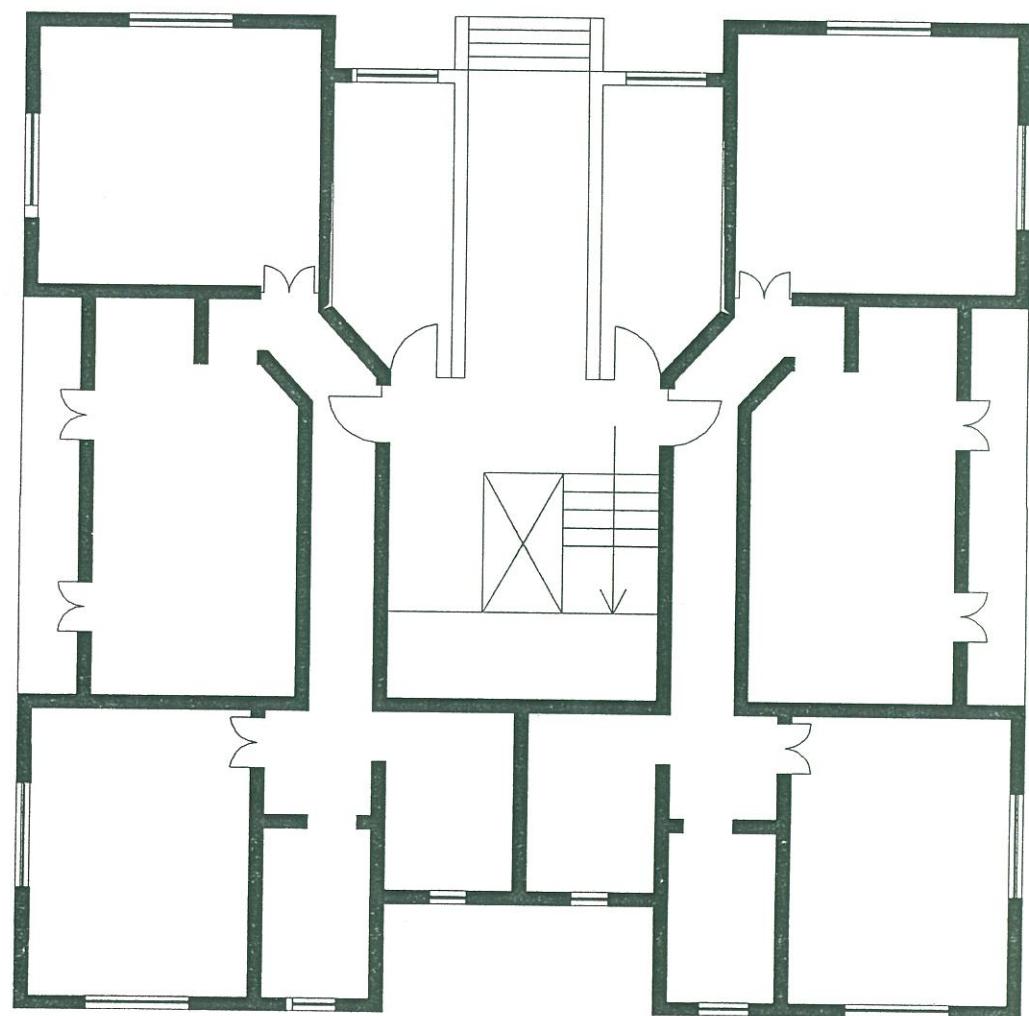
G + 3

NO. OF FLOORS

LB. & WOODEN

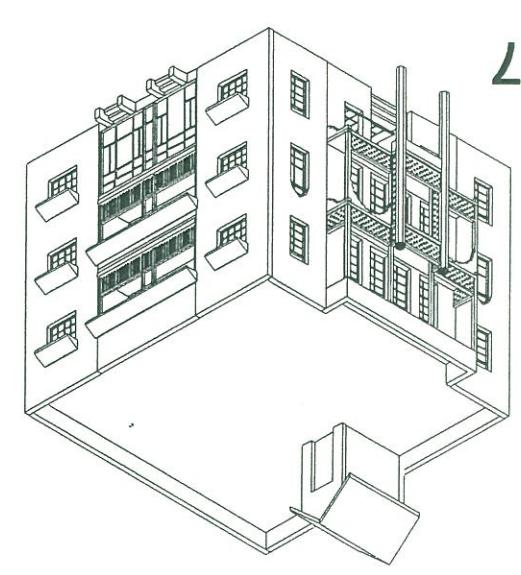
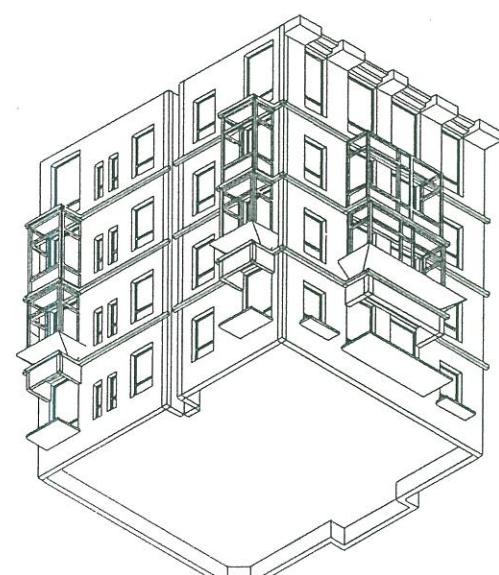
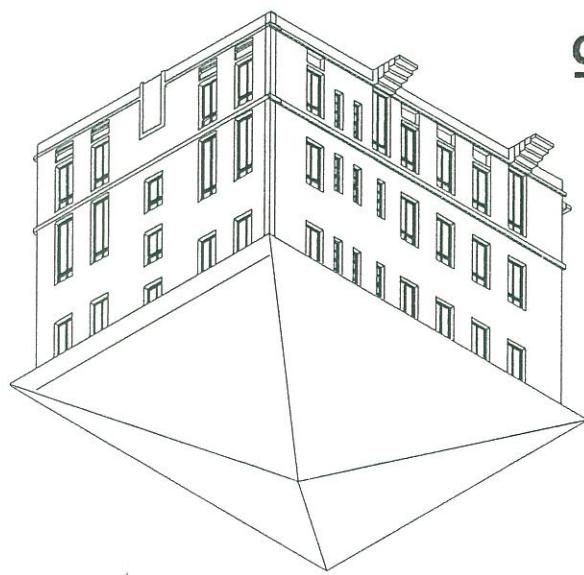
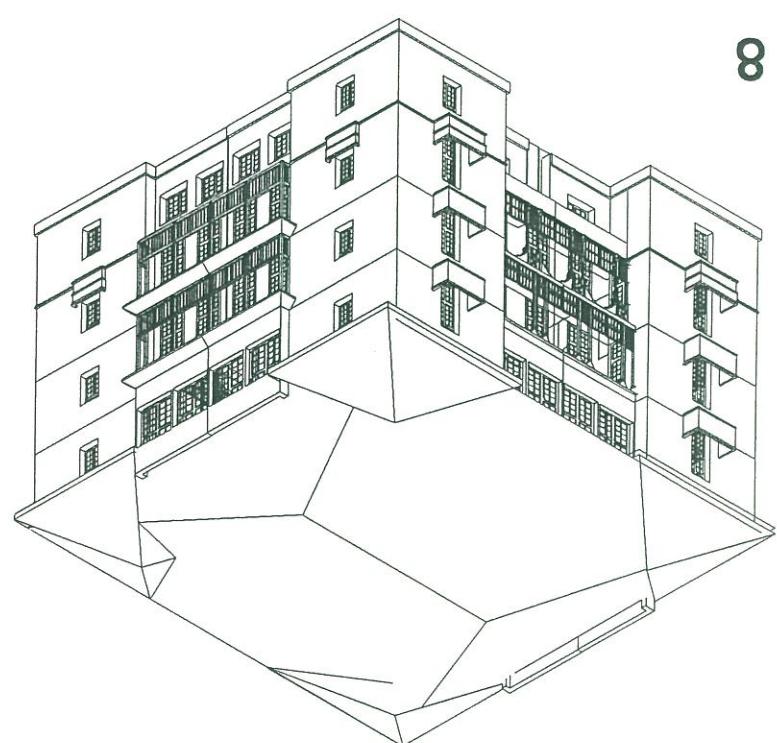
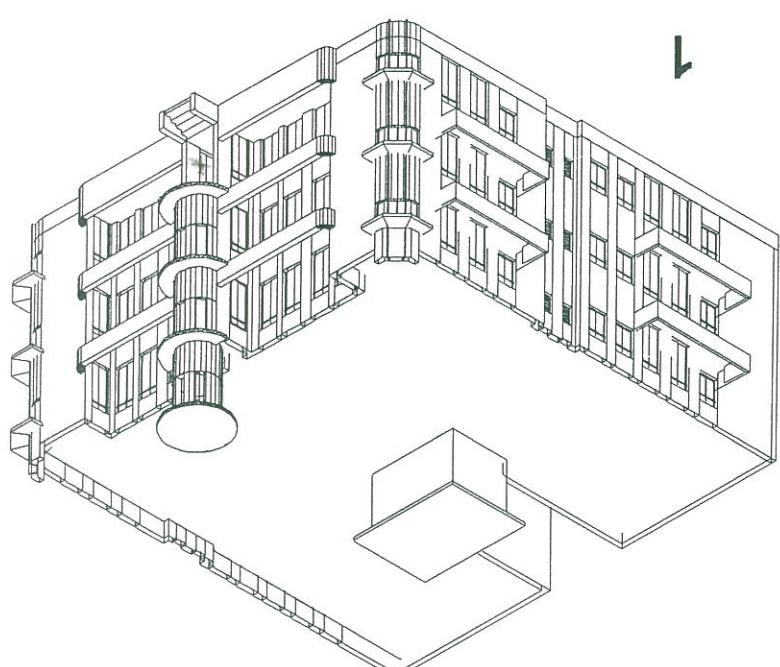
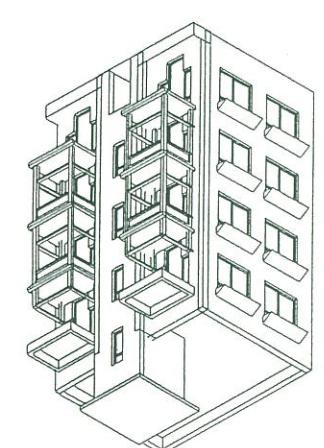
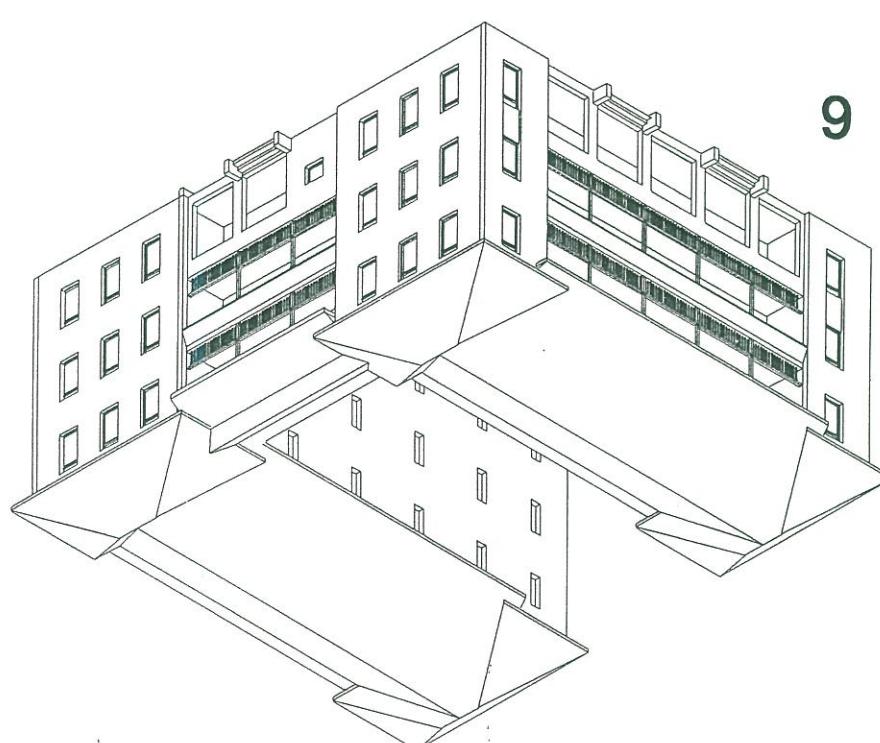
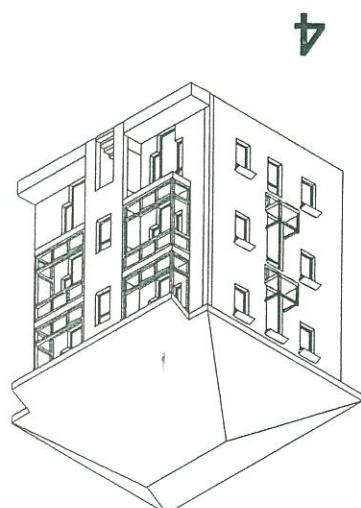
CONSTRUCTION TECHNOLOGY

PITCHED ROOF



COMPARITIVE TYPOLOGIES

All the typologies have been compared to study the difference in footprint, volume, fenestration and architectural character.



The precinct has a number of urban spaces, which need to be studied for their nature of urban form and activity. The nature of spaces might vary from open square, transport interchanges, maidans, gardens to smaller residential open spaces (plate 39). Khodadad Circle and Maheshwari Udayan have an identifiable built-form and open space relation and form important commercial city nodes on the Dr. Baba Saheb Ambedkar Road. Five Gardens is known for its multifunctional nature of activity for the city as well as the neighbourhood. The Ruita and Poddar area is a very important institutional node. The Matunga station forms a commercial node as well as a transport interchange for the precinct.

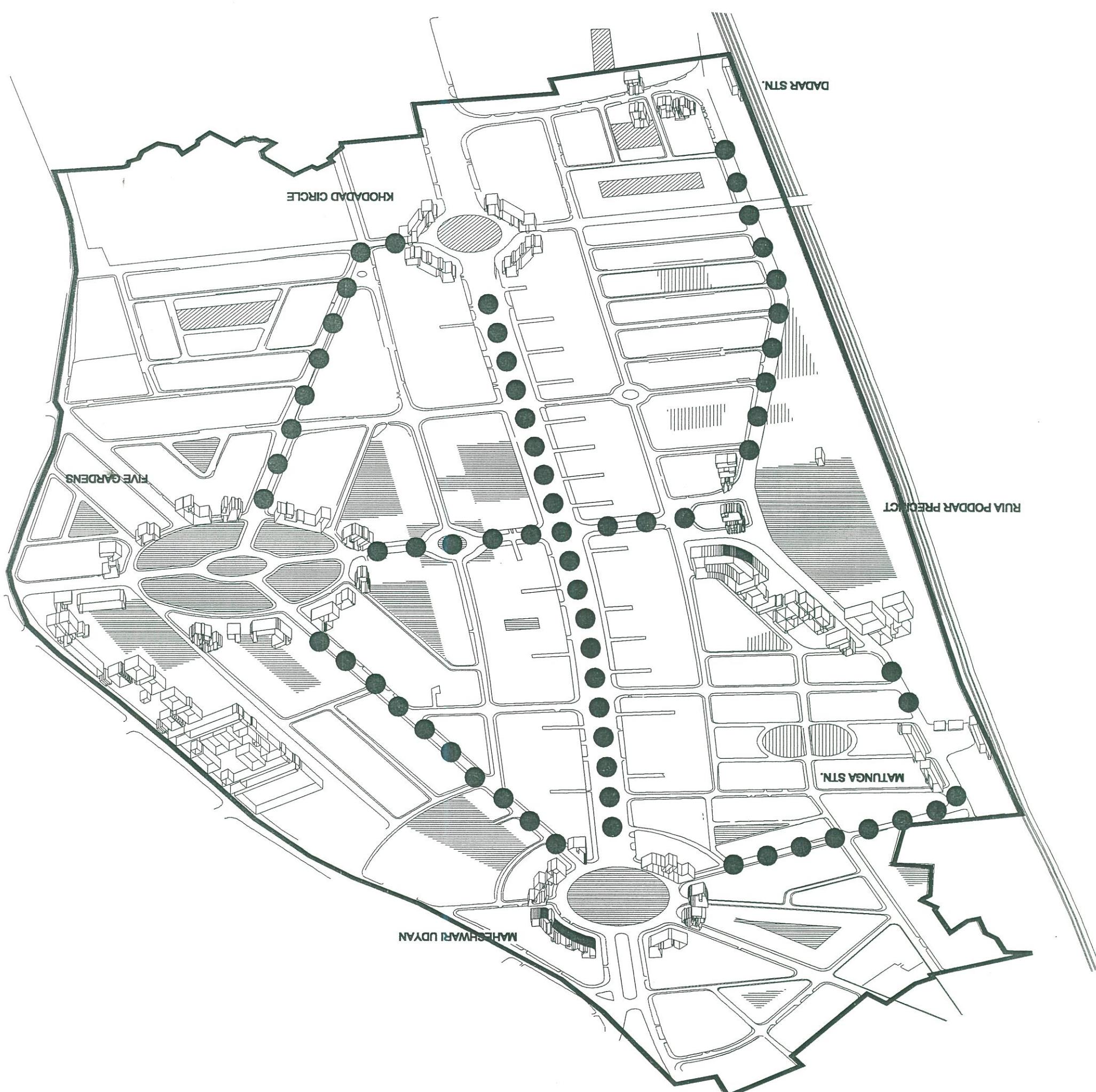
Each of these spaces has a separate identity, which needs to be established. However as the analysis of each would indicate, there might be many activities and transformations in built-form in these spaces, which might be incongruous to its nature.

STRUCTURE OF URBAN SPACE

PLATE NO. 39

The precinct has a distinct urban space structure, which is interconnected by the movement network (vehicular + pedestrian)

Notes

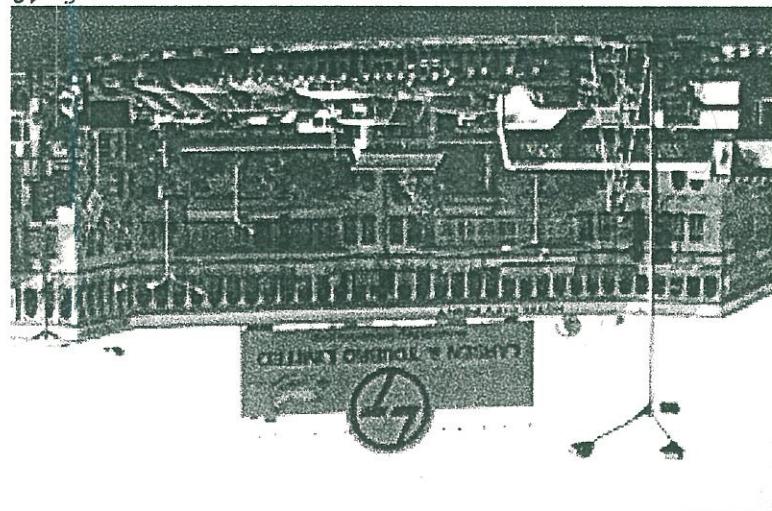


CITY NODES

fig 14



fig 13



This is one of the city nodes after Khoedadad Circle on the Dr. Baba Saheb Ambedkar road. It also forms an important node between different parts of the precinct. The Maheshwari Udyan forms a crescent with shops on the ground, residences on the top and a garden in the centre. Though this garden lies in the middle of a traffic junction, it is actively used as a children's play area. The other activities, like informal shopping, parking are much subdued than the Khoedadad Circle with lesser signs of decay (plate 44 to 46).

5.2. MAHESHWARI UDYAN (fig 14)

Khoedadad Circle thus struggles to keep its identity. It is a contested space with various interest groups like shop-owners, informal shop-owners, the BMC, the residents, the corporates vying with each other for space. The chaotic arrangement of urban signatures, informal shopping on the pavements and varied landscape features, which characterise the precinct, are symptomatic of this struggle (plate 40 to 43).

Historically this precinct formed a tram terminus and an urban square marking the culmination of the city limits. With the expansion of the city limits this urban square became a part of the city's movement system and became more of a traffic junction and a parking lot. The construction of the ongoing fly-over will completely destroy its built-form open-space structure.

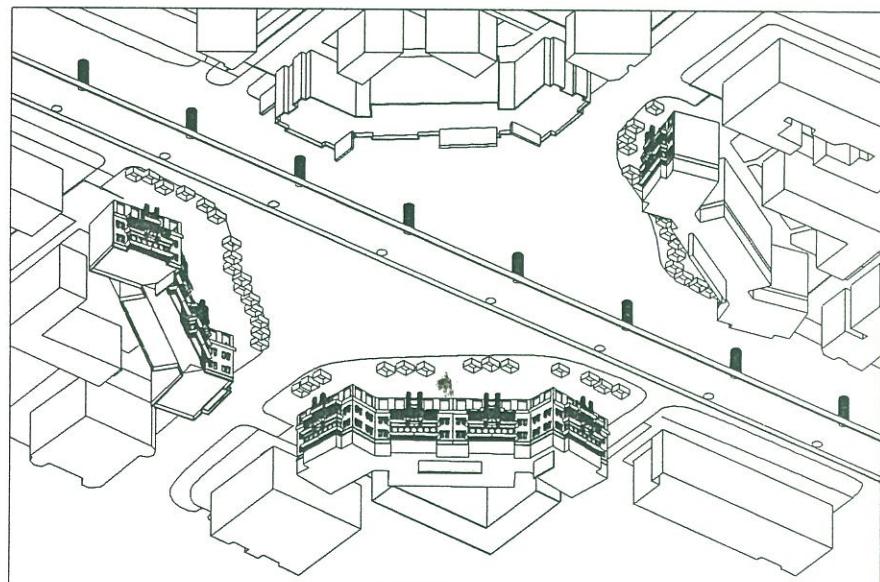
West connects to this corridor. These series of nodes together gives an identity to this city corridor.

It forms one of the important nodes amongst many others on the Dr. Baba Saheb Ambedkar road and lies on the crossing of the North-South and East-West connectors of the city. These series of nodes together gives an identity to this city corridor.

5.1. KHOEDADAD CIRCLE (fig 13)

With the bridge cutting through the Khodadad Circle, the nature of space will be completely disrupted.

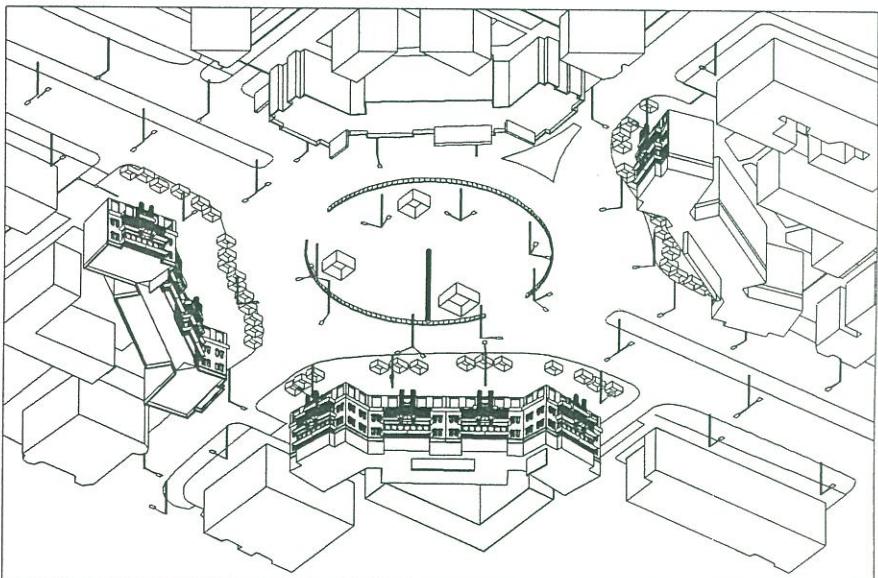
2000



has undergone complete transformation.

With the increased FSI, some buildings have added floors; building facades are changed and ruptured. Central garden has become a parking lot and the pavements are occupied by hawkers. Hoardings, air-conditioning units, signages are all sharply placed and the character

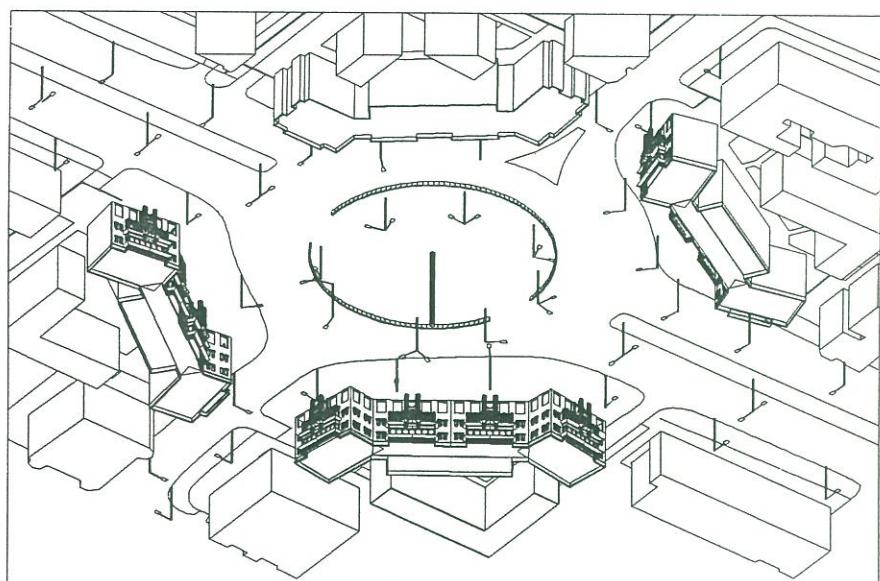
1980



The street lights have undergone changes.

The tram route is taken off and the circle is made into a central garden.

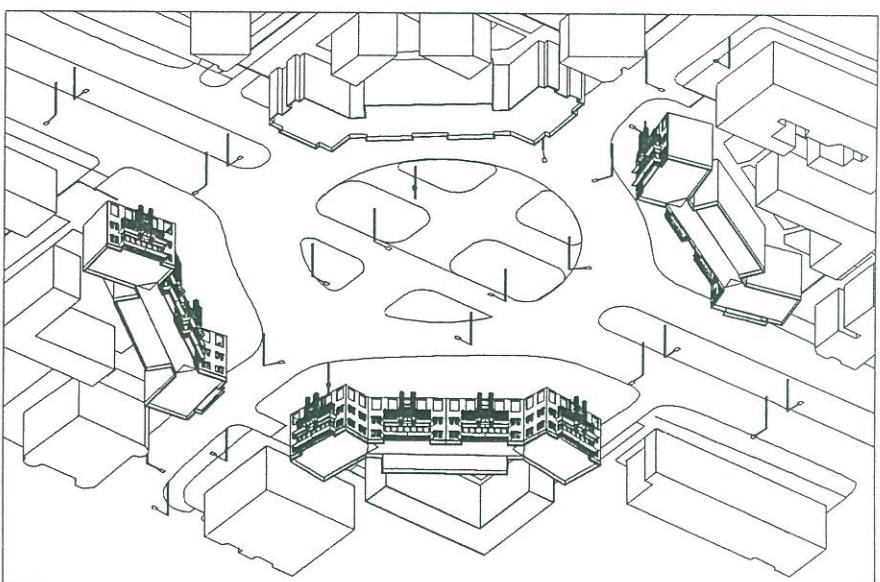
1950



tram route passes through the circle.

The circle as planned originally with all four buildings as G+2 high. The

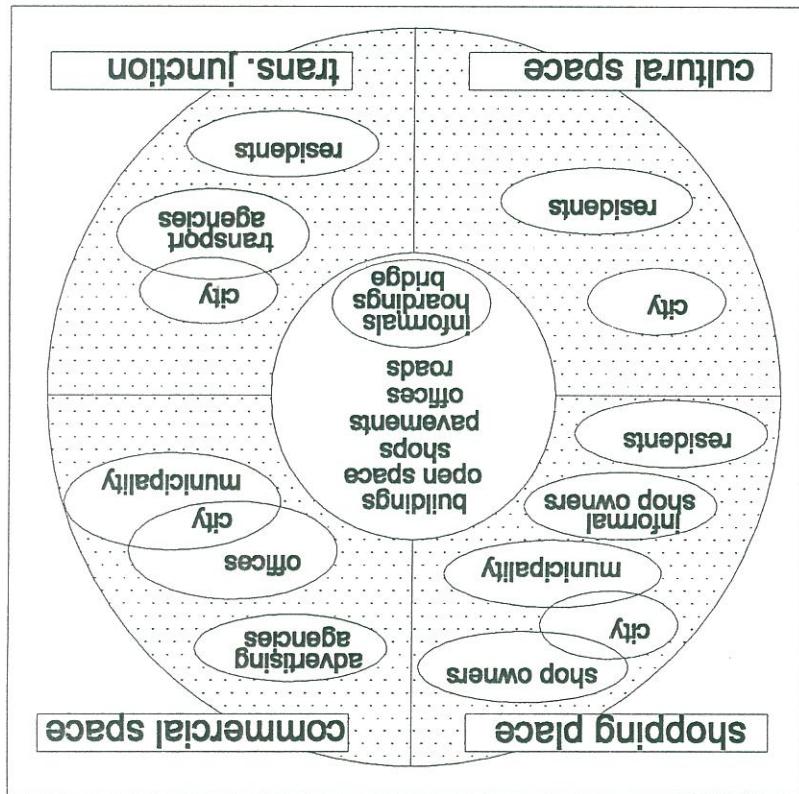
1930



A large number of groups like shop owners, informal shop owners, residents, corporations etc. are using this precinct for various purposes. The BMC's use of this urban space as a parking lot seems to override others.

This urban space as seen clearly is heavily used as a commercial space and a transport junction. However the transport activities like the car parkings are detrimental to the image and activity.

INTEREST GROUPS



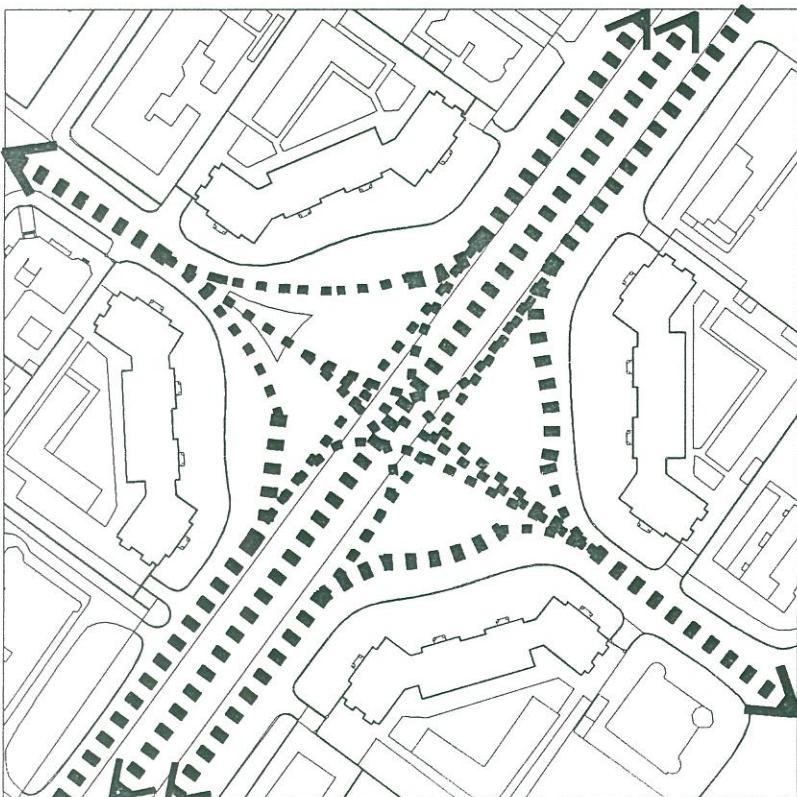
ACTIVITY PATTERN

morning	aftemoon	evening	recreation	commercial space	transport junction	institution	office use

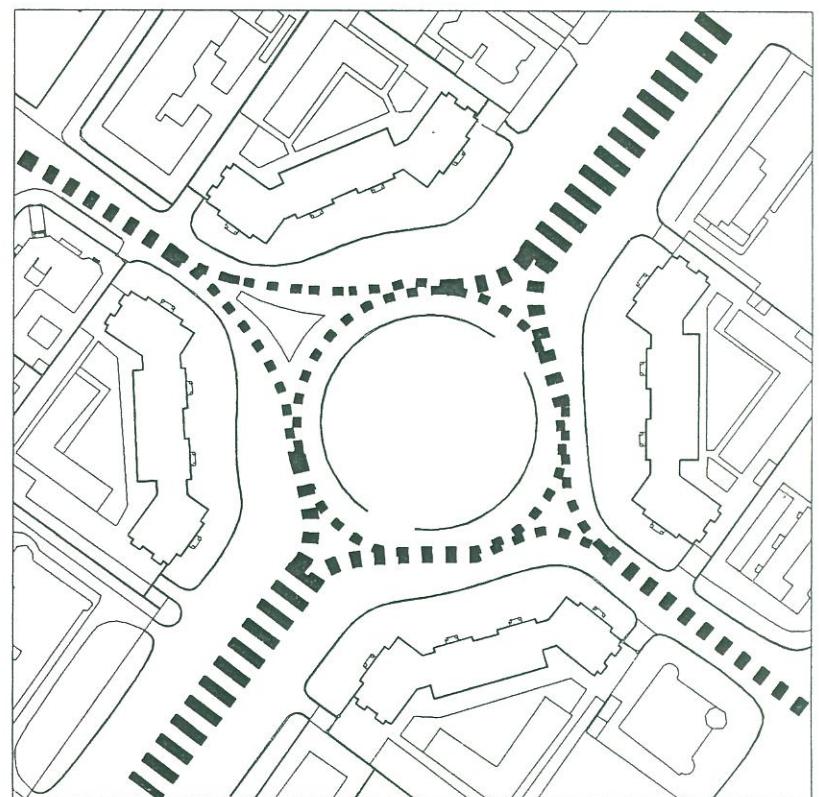
The new bridge proposed resolves this problem, but only for private vehicles since the public transport requires to use the ground level. Also the east-west transport happens at this level. The bridge also detracts the overall image of this node.

The junction causes some delay to the north-south bound traffic in the present condition.

MOVEMENT WITH THE BRIDGE



EXISTING MOVEMENT



KHODDAD CIRCLE

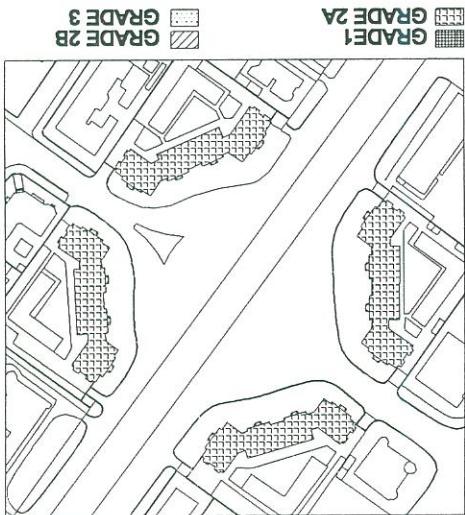
(PHYSICAL CHARACTERISTICS)

The plan shows the use of space for informal shopping. The pavement pattern is varied with attempts of every shop owner to private space in front of his/her shop. The location and design of street furniture and urban signage is haphazard.

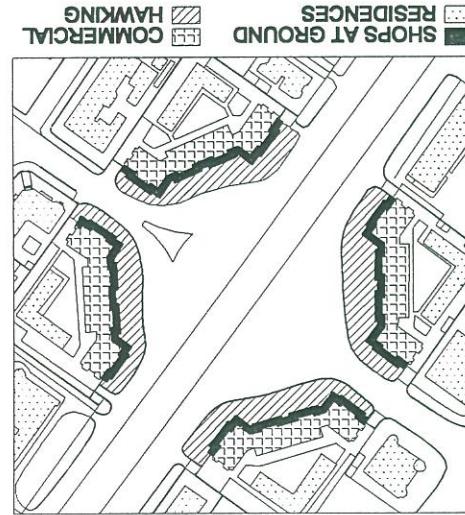
Notes

PLATE NO. 42

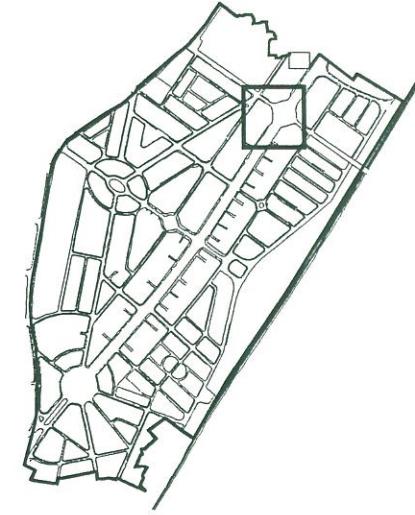
HERITAGE STRUCTURES



LANDUSE PLAN



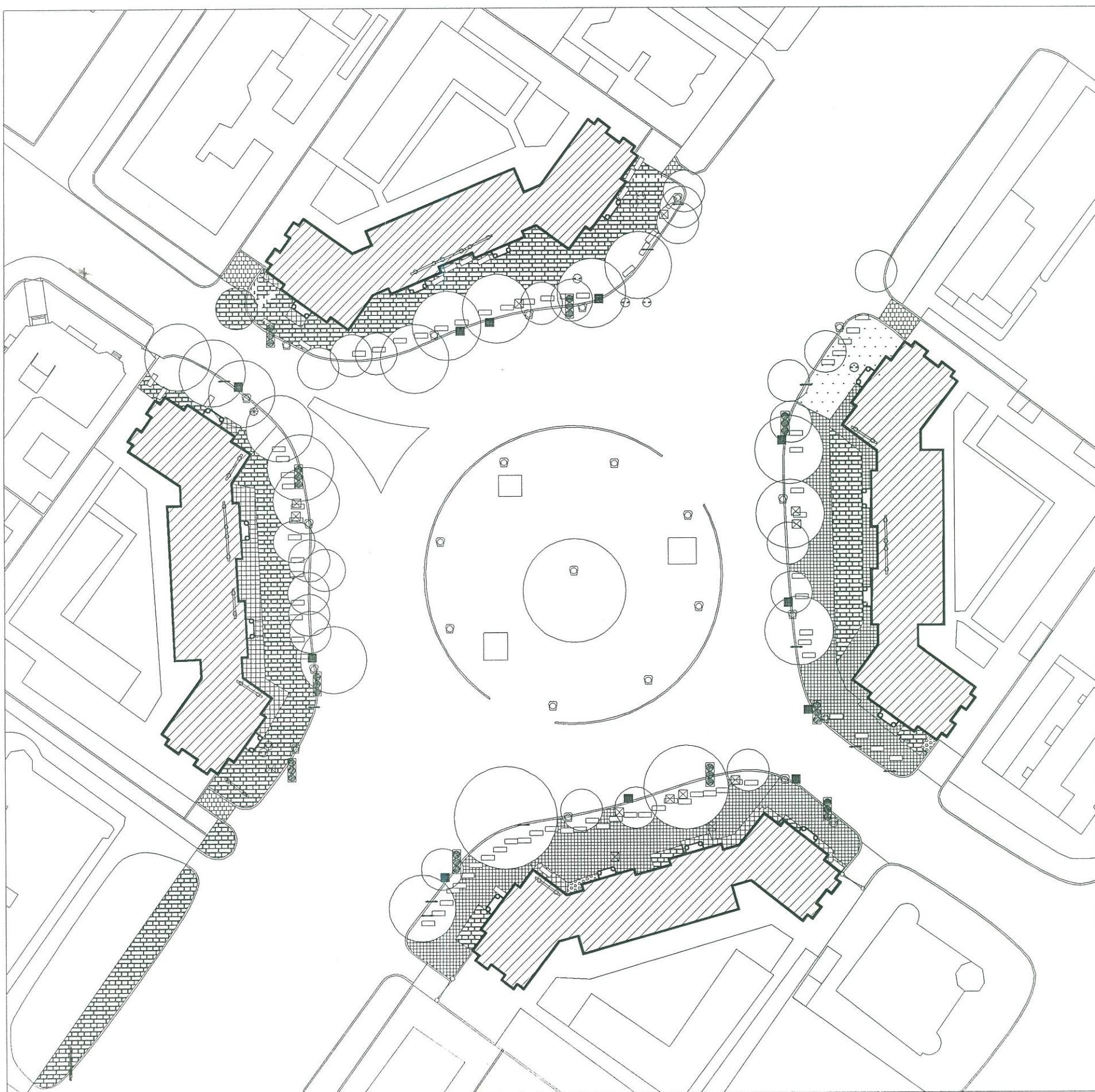
LOCATION PLAN

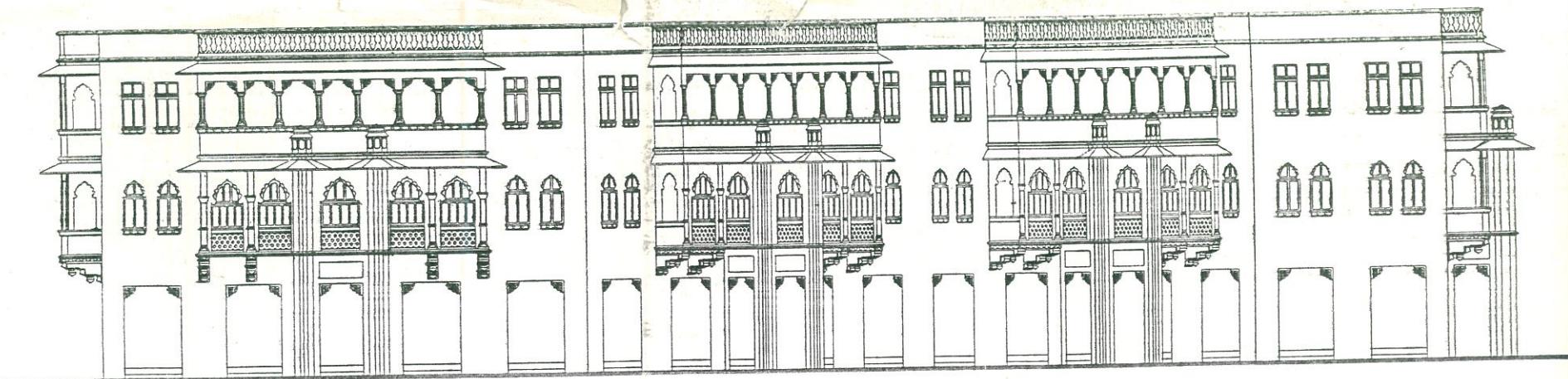


PLAN

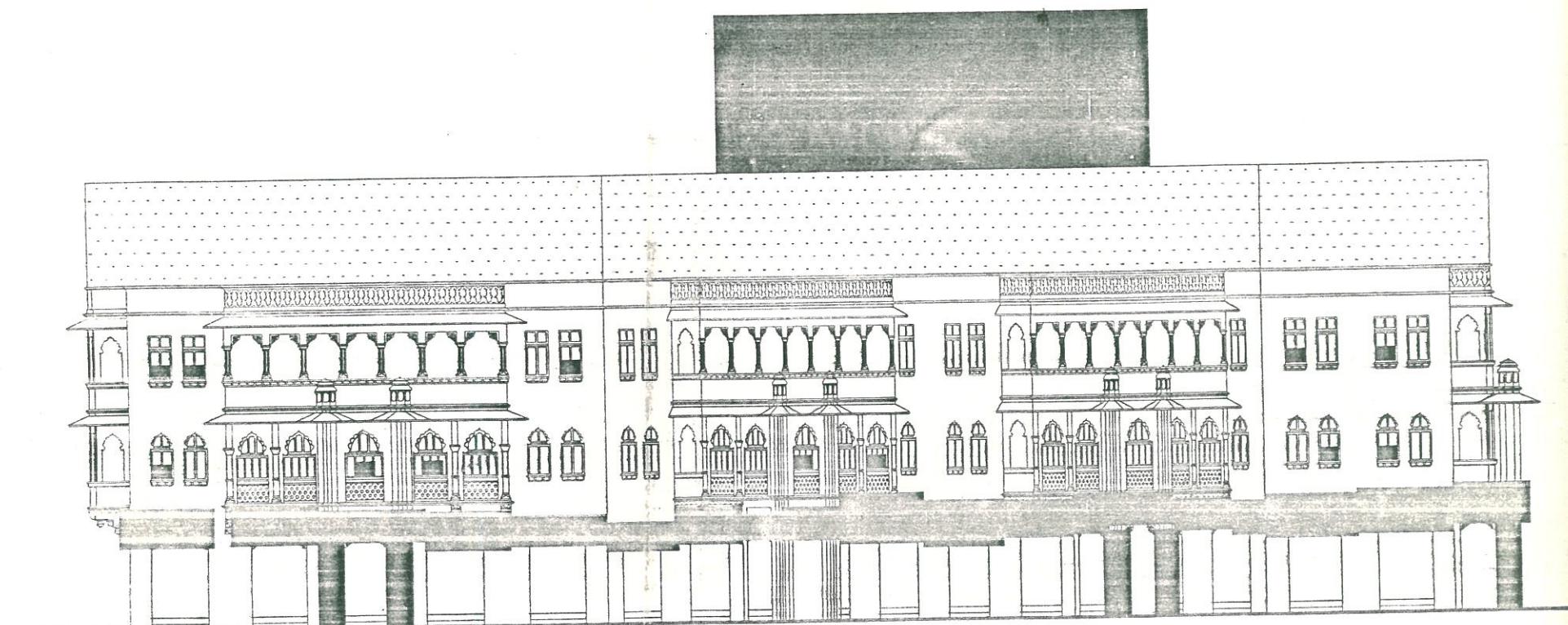
100m 30m 0

- GUTTER HOLE
- SIGNAL
- ELECTRICAL
- MANHOLE
- FIRE HYDRANT
- TELEPHONE BOX
- SIGN BOARD
- LAMP POST
- SHOPS AT GROUND
- RESIDENCES
- COMMERCIAL
- HAWKING
- GRADE 1
- GRADE 2A
- GRADE 2B
- GRADE 3





DETAIL OF ELEVATION

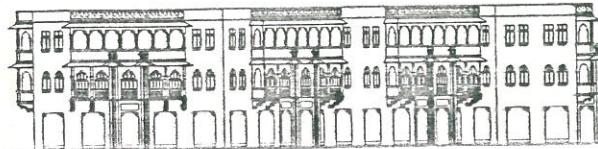


DETAIL OF ELEVATION



LOCATION PLAN

1



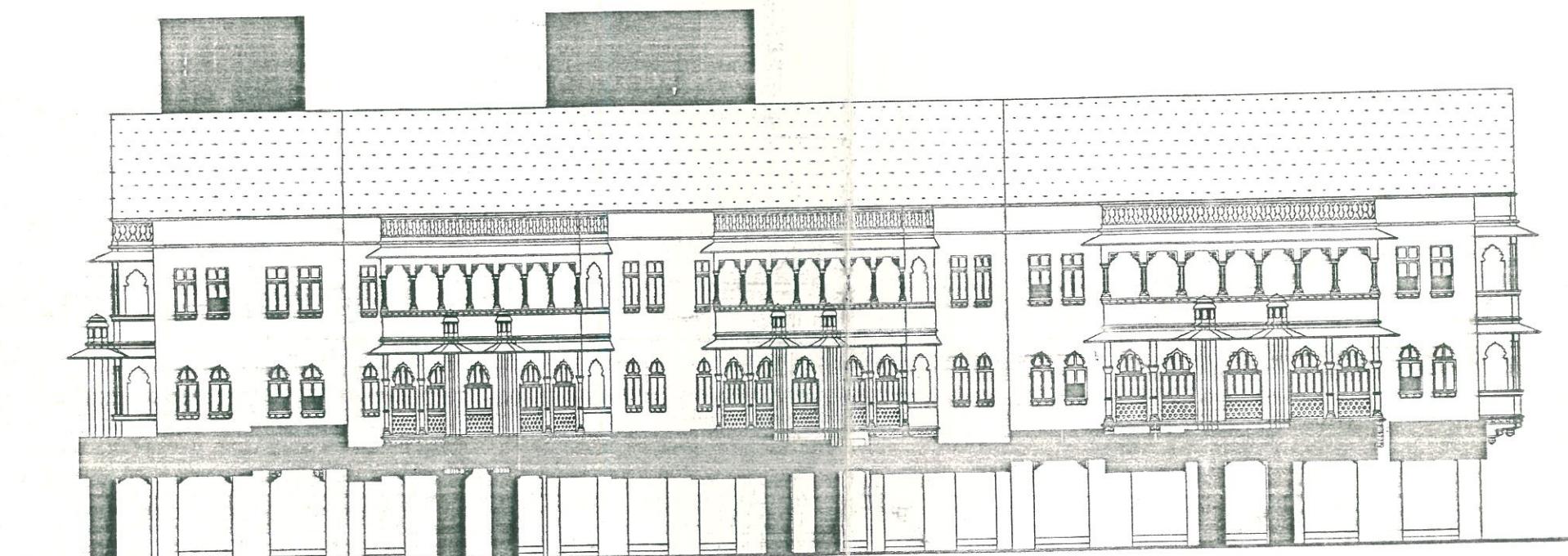
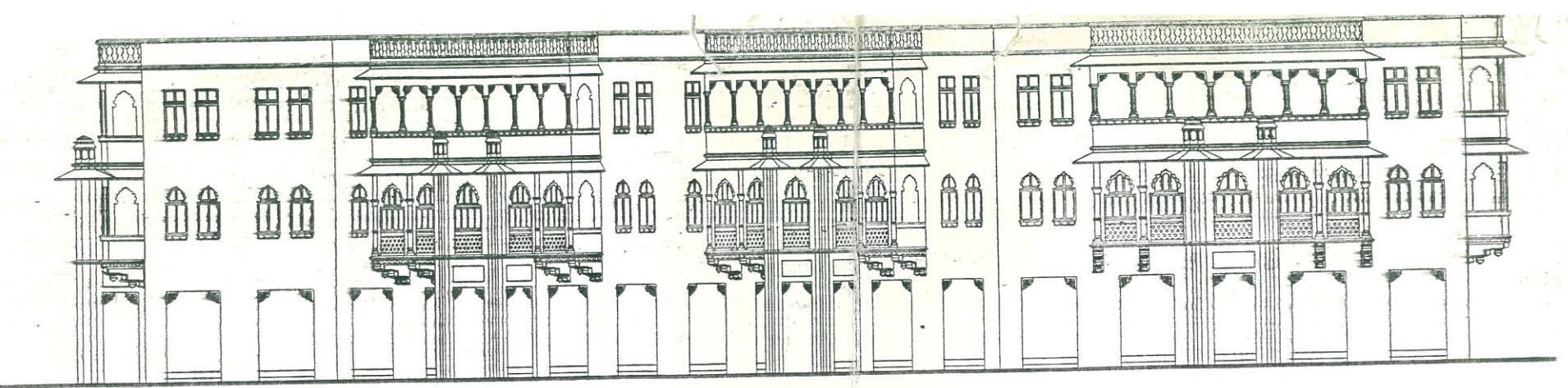
ELEVATION

Notes

The building facades of the Khodadad circle shows serious ruptures with insensitive signboards, hoardings, air-conditioning units etc.

KHODADAD CIRCLE

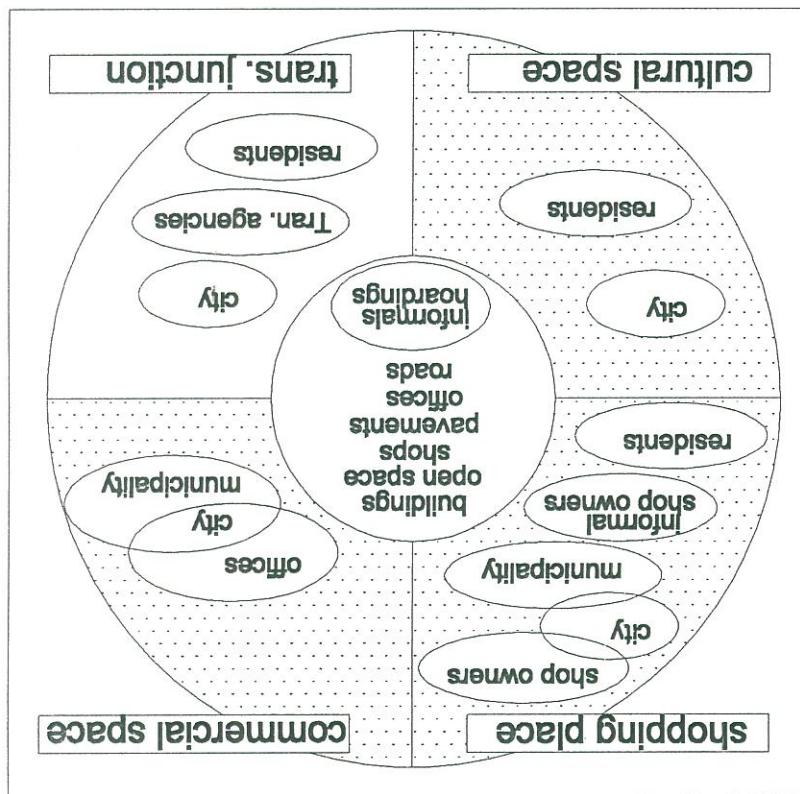
(BUILDING TRANSFORMATIONS)



A large number of groups like shop owners, informal shop owners, residents, corporative offices etc. are using this precinct for various purposes.

This urban space as seen clearly is heavily used as a commercial space and a transport junction. The roundabout is used as a public garden.

INTEREST GROUPS



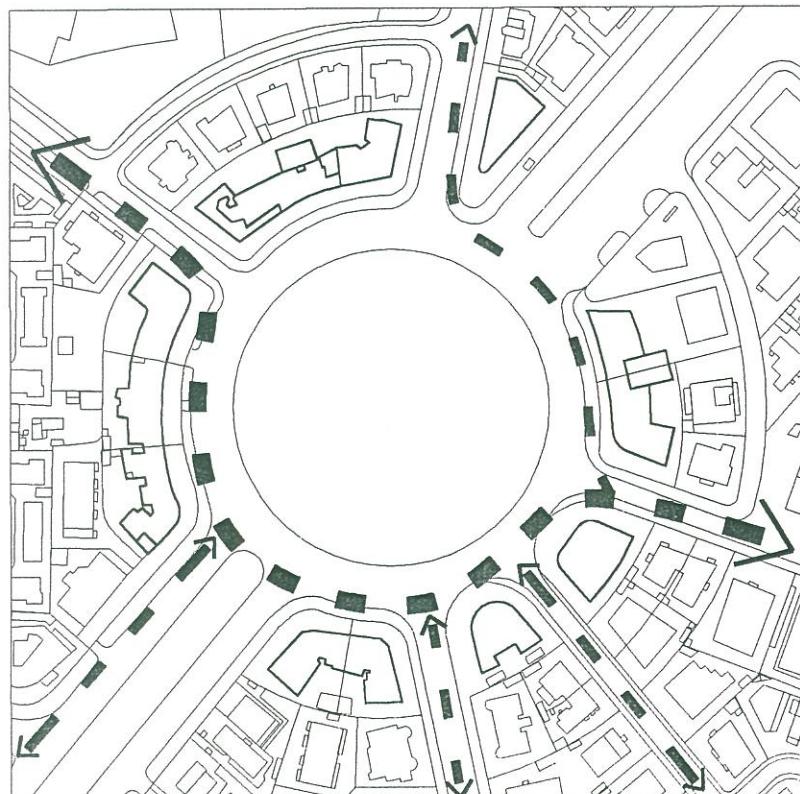
ACTIVITY PATTERN

	morning	afternoon	evening	night
Office use				
Institution				
through traffic				
commerce				
recreation				

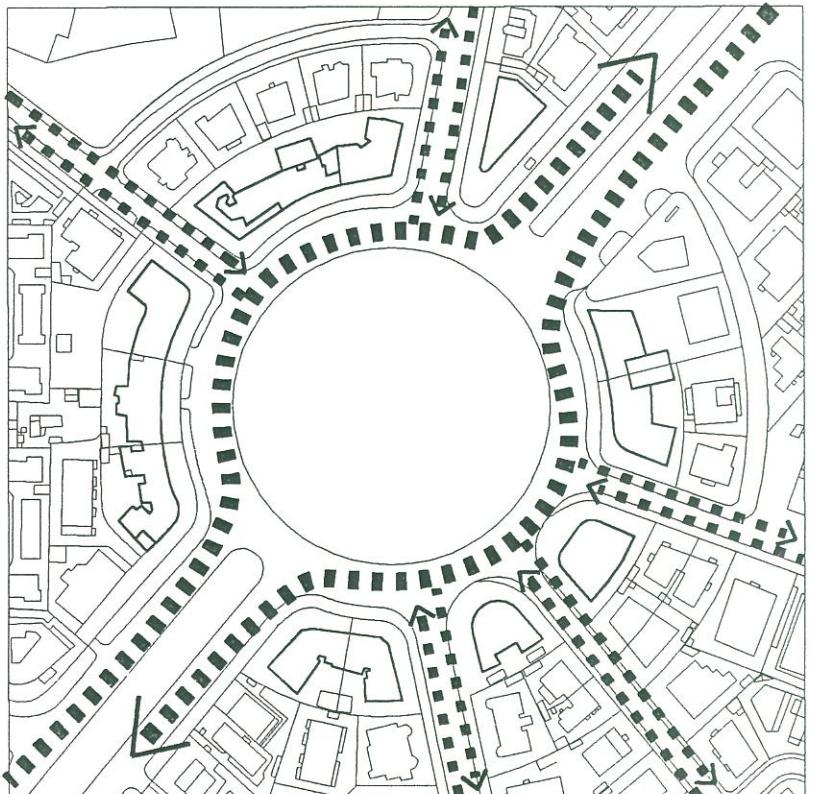
This node forms a connection from the railway station to the institutions like VJTI, Kharla College, Don Bosco School and UDCT. The high vehicular traffic that this node handles makes the crossings hazardous.

This urban space as seen clearly is heavily used as a transport junction, with a roundabout which forms a public garden. The roundabout forms an obstruction in the experience of the entire circle but is an important link to the area.

PEDESTRIAN MOVEMENT



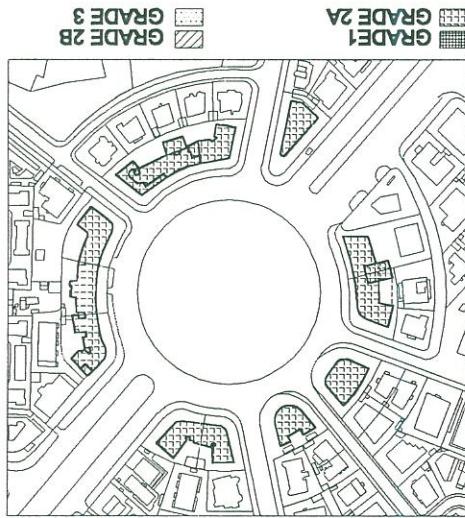
VEHICULAR MOVEMENT



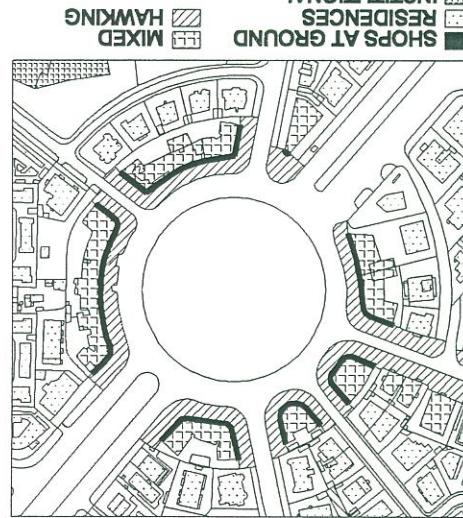
The pavement of Maheshwar Udyan shows lesser degree of informality as compared to Khodadad Circle and shows lesser signs of decay. However the garden in the middle is contradictory to vehicular traffic that surrounds it.

Notes

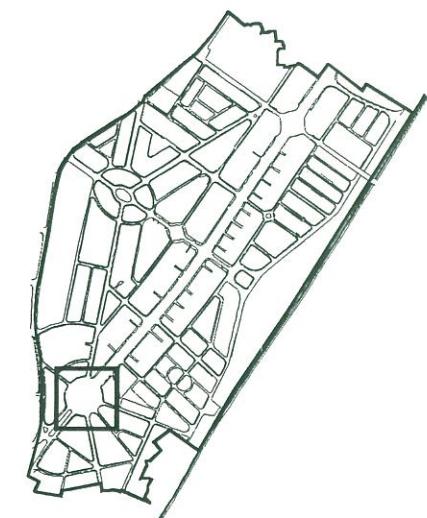
HERITAGE STRUCTURES



LANDUSE PLAN



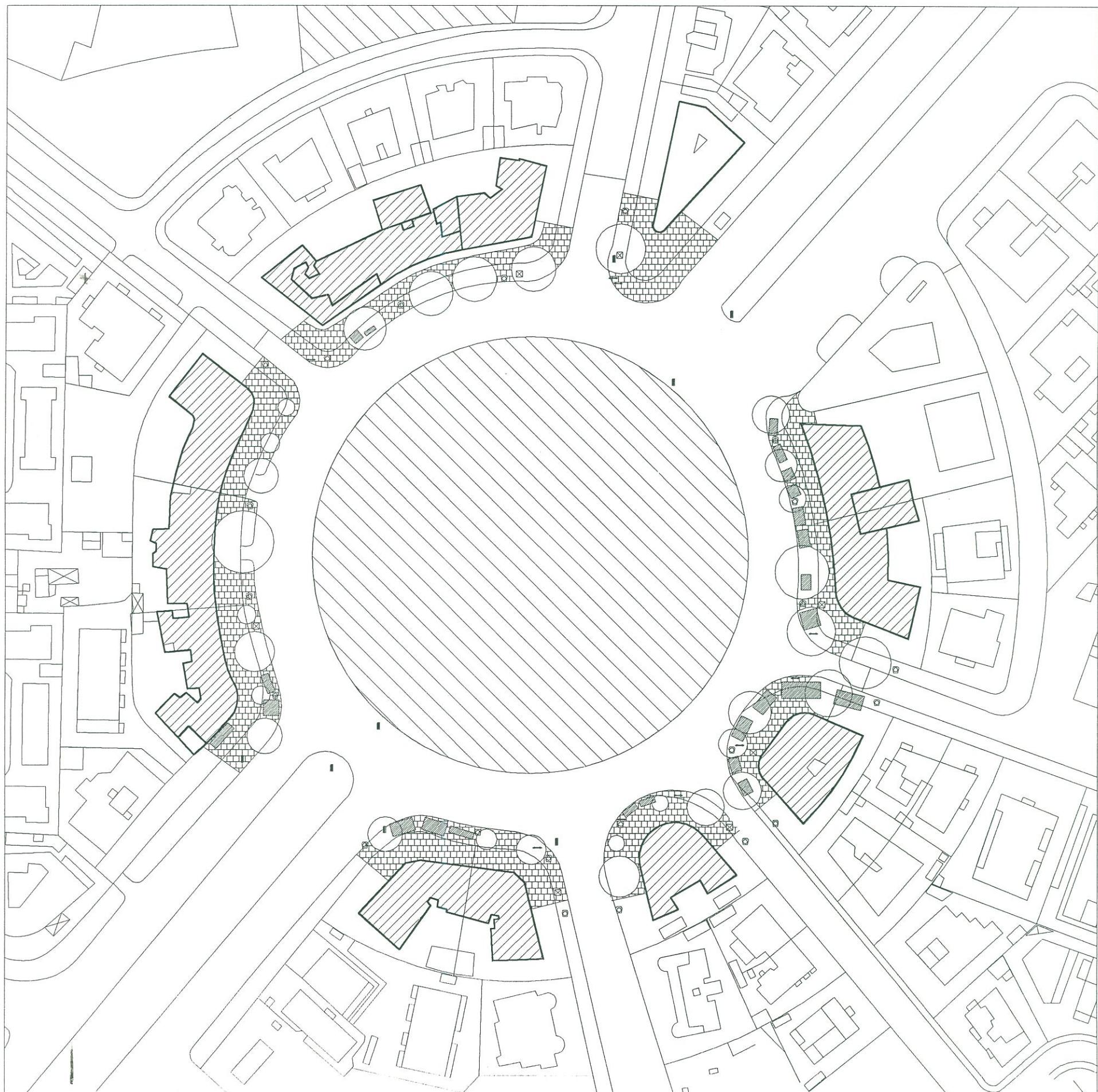
LOCATION PLAN



0 10 50 75m.

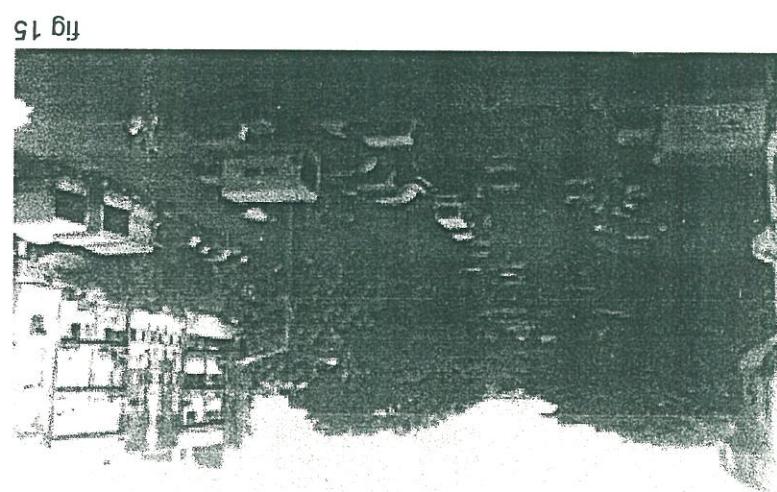
PLAN

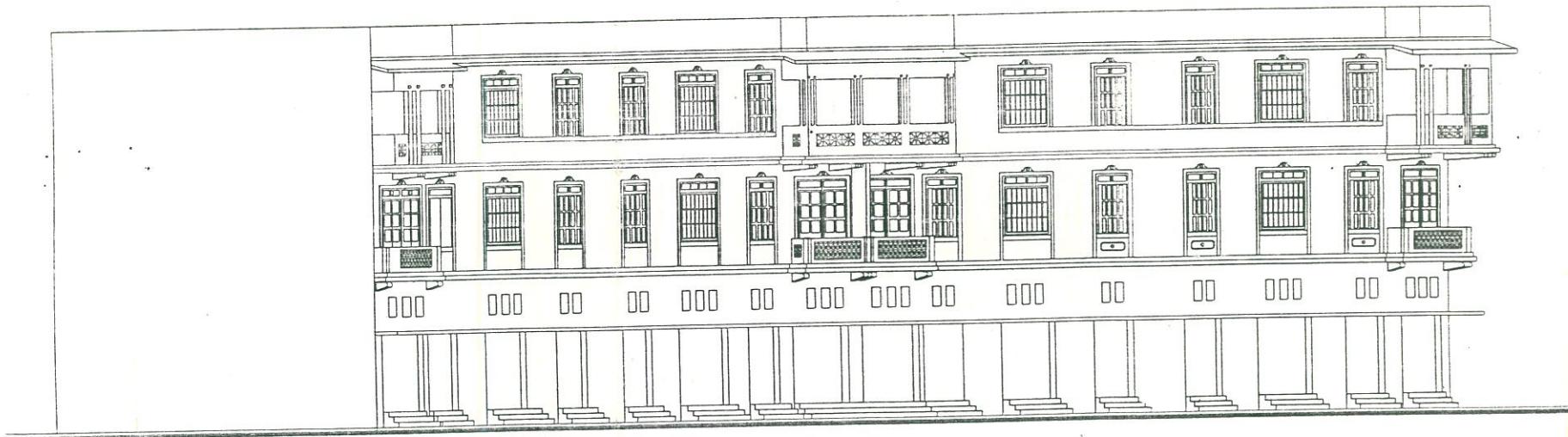
- GUTTER HOLE
- SIGNAL
- LAMP POST
- ELECTRIC
- MANHOLE
- FIRE HYDRANT
- TELEPHONE BOX
- SIGN BOARD
- SIGN



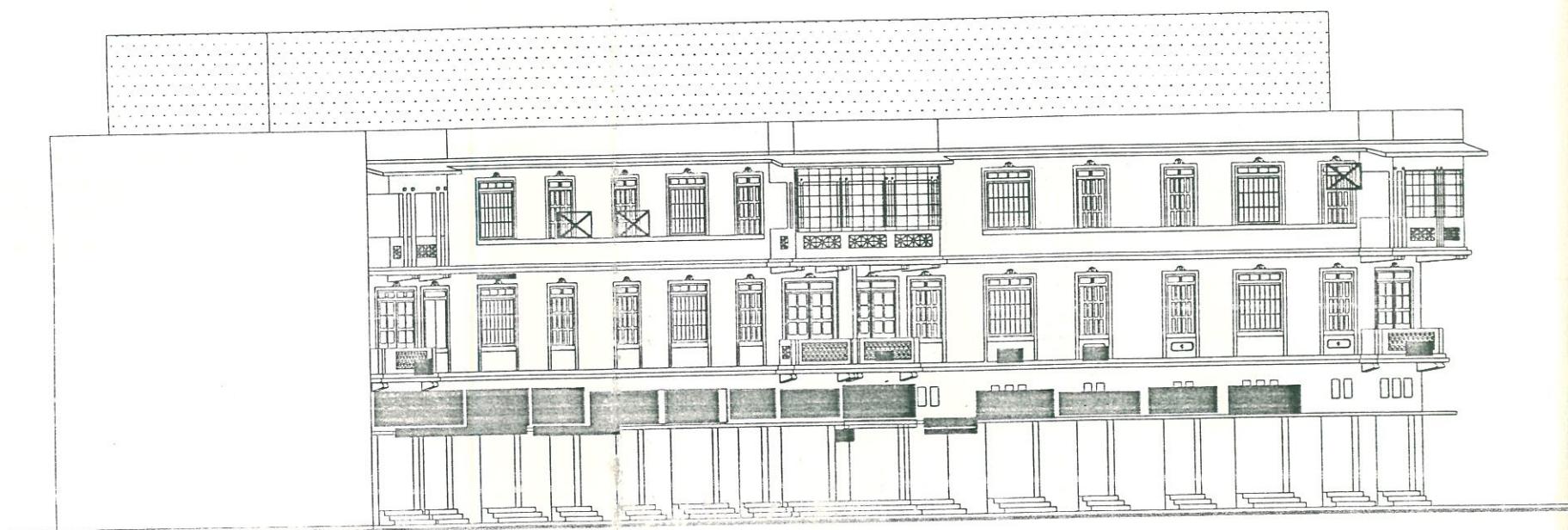
The station serves as one of the entry points as well as an interchange point for the precinct. However it lacks the quality of such a space, as lot of other functions like parking, informal commercial compete for the use of this space. The front of this station is used as a parking lot for private vehicles as well as a taxi stand. The pavements are encroached upon by the informal market which competes with pedestrian movement (plate 47 & 48)

5.3. MATUNGA STATION (fig 15)





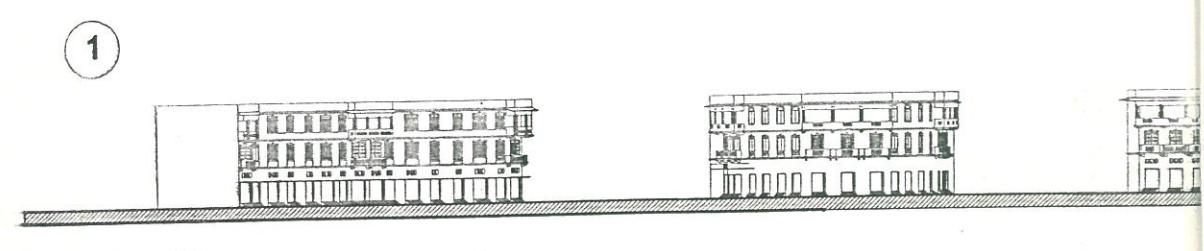
DETAIL OF ELEVATION



DETAIL OF ELEVATION



LOCATION PLAN

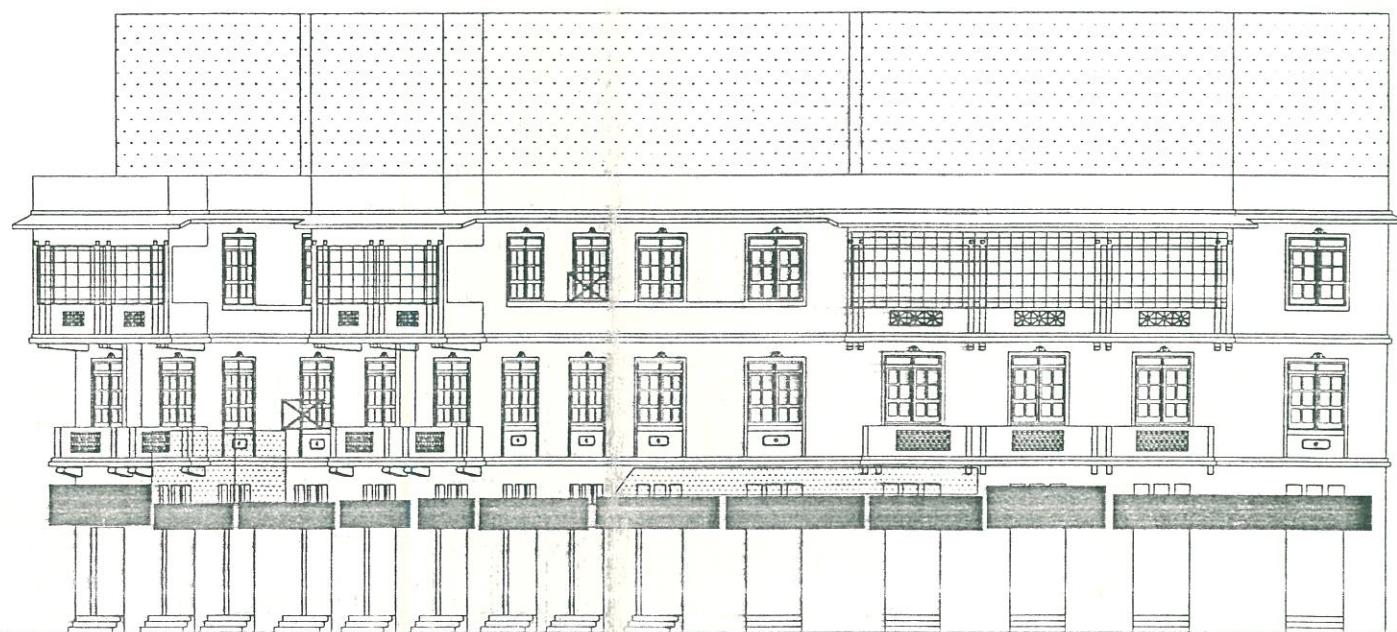


ELEVATION

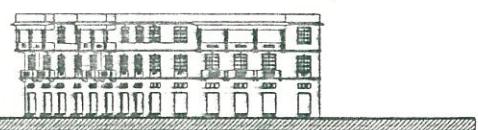
Notes
The building facades of the Khodadad circle shows serious ruptures with insensitive signboards, hoardings, air-conditioning units etc.

MAHESHWARI UDYAN

(BUILDING TRANSFORMATIONS)



2



0 5 10m.



VEHICULAR MOVEMENT

Being a railway station and also a market, this urban space is one of the prime generators of vehicular traffic in the precinct. Overlapped with the high traffic intensity, is the use of the space in front of the station as a parking lot and for informal shopping, making the entire area completely chaotic.



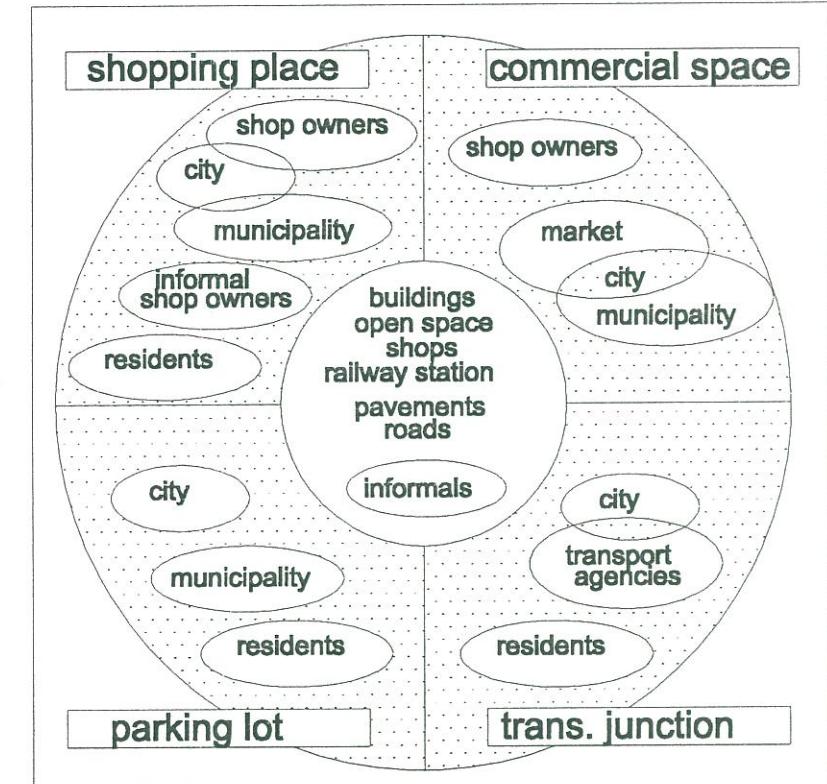
PEDESTRIAN MOVEMENT

Like vehicular traffic, this urban space also generates a huge amount of pedestrian traffic.

*	morning	afternoon	evening
recreation			
commerce			
through vehicular traffic			
institution			
interchange			
office use			

ACTIVITY PATTERN

The overlap of two functions: commercial and transport interchange with unorganised planning makes this place completely chaotic in nature.



INTEREST GROUPS

A large number of groups like shop owners, informal shop owners, residents, corporate offices etc. use this precinct for various purposes. The BMC's use of this urban space as a parking lot seems to override others.

MATUNGA STATION

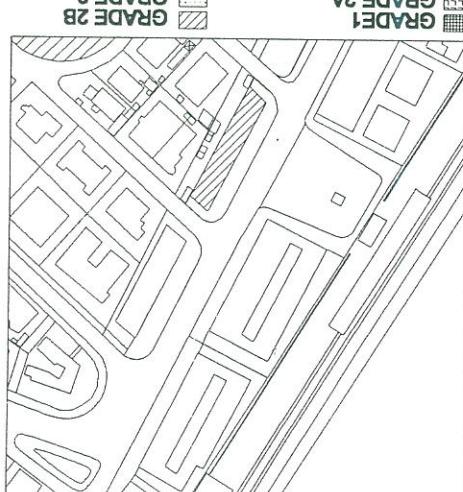
(PHYSICAL CHARACTERISTICS)

PLATE NO. 48

The overlapping unorganised functions of the station, market and the parking place with through traffic makes this area completely chaotic. The space in front of the Matunga Station which spatially can provide a good gesture as an entry/exit from the station is used as a parking lot.

Notes

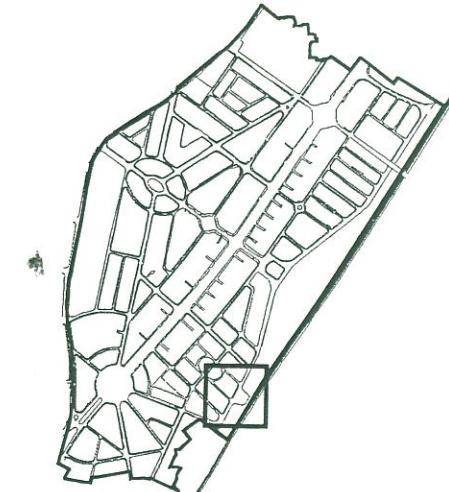
HERITAGE STRUCTURES



LANDUSE PLAN



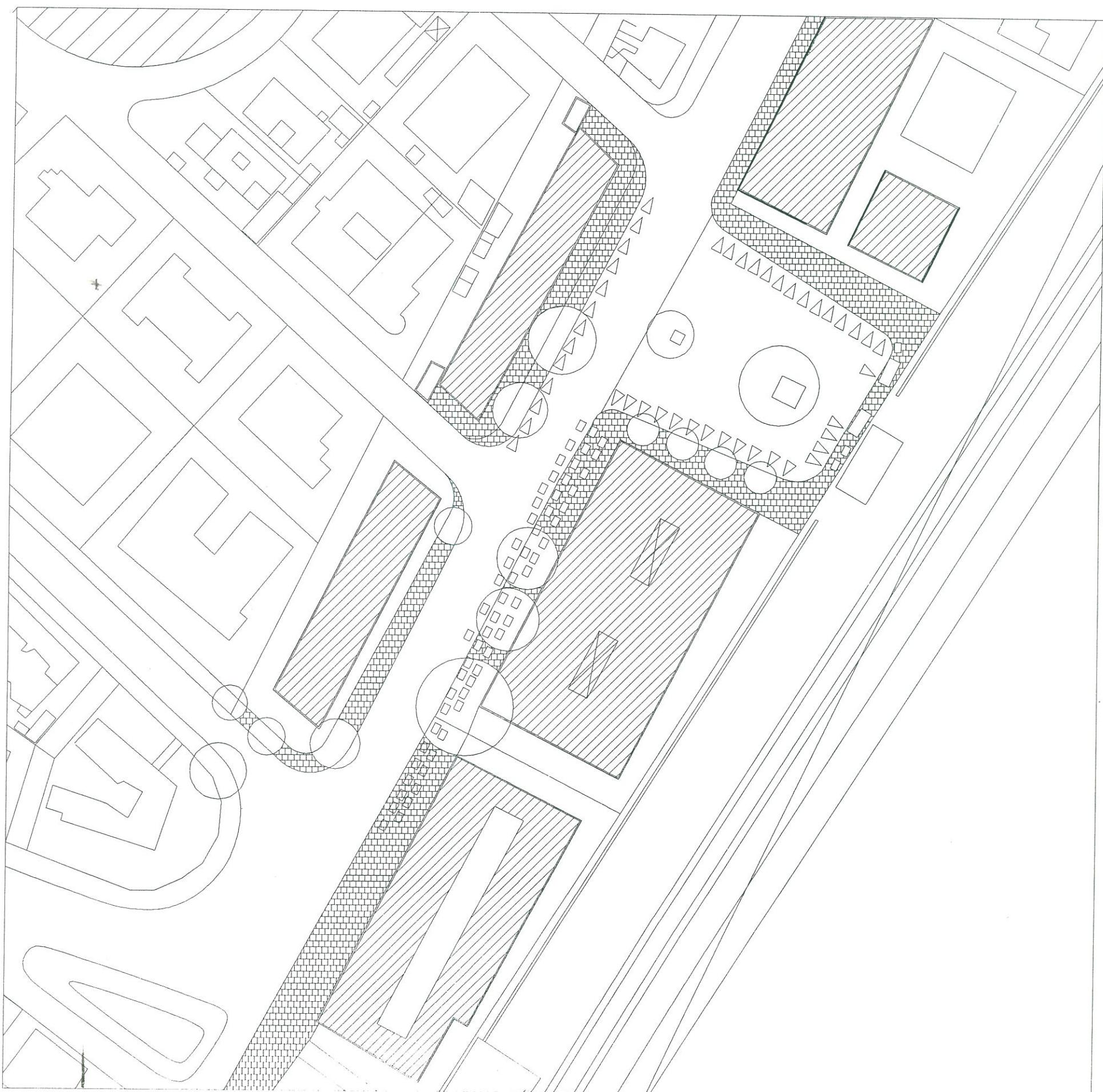
LOCATION PLAN



1M 4M 8M

A horizontal row of eight icons, each consisting of a small graphic symbol followed by a label. From left to right, the icons are: GUTTER HOLE (a square with a diagonal line), SIGNAL (a vertical post with a horizontal bar), MANHOLE (a circle with a cross), ELECTRIC / METER BOX (a rectangle with a circle inside), FIRE HYDRANT (a circle with a cross), LAMP POST (a vertical post with a lamp arm), SIGN BOARD (a rectangle with a horizontal line), and TELEPHONE BOX (a rectangle with a telephone handset icon).

PLAN



MARDANS AND GARDENS

The Five Gardens have been a prime generator of the identity of this precinct. The generous scale and neutrality have been factors for the five gardens to assume a city level importance. Before independence these gardens formed a setting for the military band to be orchestrated in the central garden. Later the central garden started being used for political rallies and public meetings. Presently it is a multi-functional space. It assumes a different set of functions with time. While daily during the mornings and evenings it becomes a space for the residents of the neighbourhood to recreate/socialise, through the weak organisations. Late in the evenings it becomes a safe haven for young couples of the city. The ability of the space to take in different functions is because of the neutrality in the physical nature of the space.

However it is this neutrality, which is being threatened by city officials by defining territories for specific functions in this space, like strictly designing areas for senior citizens, modifying furniture in the garden, adhoc-landscapeing etc (plate 49 & 50).



fig 17

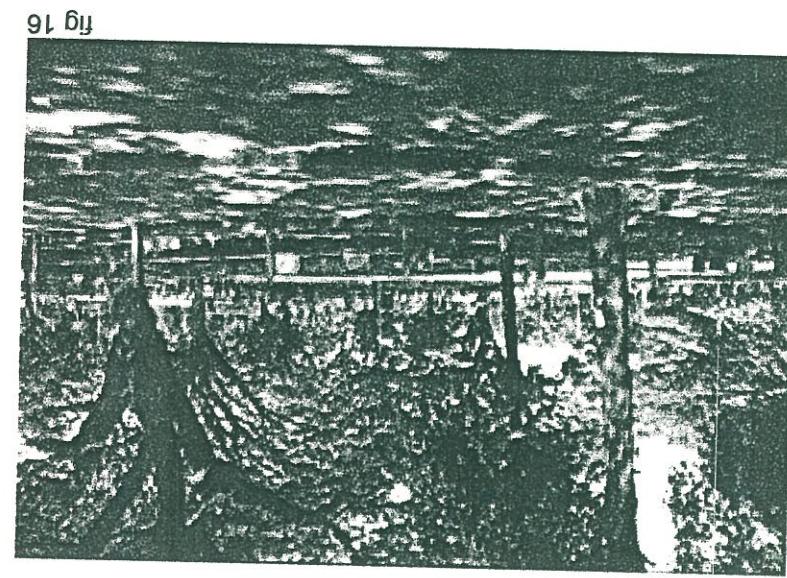


fig 16

These gardens are found in all the five neighbourhoods identified in the precinct. This is primarily an institutional node. It has a number of compatible functions around it like the maidans, sporting clubs and restaurants. However the presence of a public thoroughfare and restaurants, like in Parsi Colony, where it is primarily used as a play area by children and recreational area by adults and as a community gathering place in Hindu Colony, which is used by the Bhagini Samaj.

5.6. NEIGHBOURHOOD GARDENS (fig 18)



fig 18

These spaces are used for various functions, like in Parsi Colony, where it is primarily used as a play area by children and recreation area by adults and as a community gathering place in Hindu Colony, which is used by the Bhagini Samaj. These gardens are found in all the five neighbourhoods identified in the precinct. The institutional character of the precinct (plate 51 & 52).

5.5. RUIA-PODDAR COLLEGE PRECINCT (fig 17)

This is primarily an institutional node. It has a number of compatible functions around it like the maidans, sporting clubs and restaurants. However the presence of a public thoroughfare and restaurants, like in Parsi Colony, where it is primarily used as a play area by children and recreation area by adults and as a community gathering place in Hindu Colony, which is used by the Bhagini Samaj.

These gardens are found in all the five neighbourhoods identified in the precinct. This is primarily used as a play area by children and recreation area by adults and as a community gathering place in Hindu Colony, which is used by the Bhagini Samaj. These spaces are used for various functions, like in Parsi Colony, where it is primarily used as a play area by children and recreation area by adults and as a community gathering place in Hindu Colony, which is used by the Bhagini Samaj.

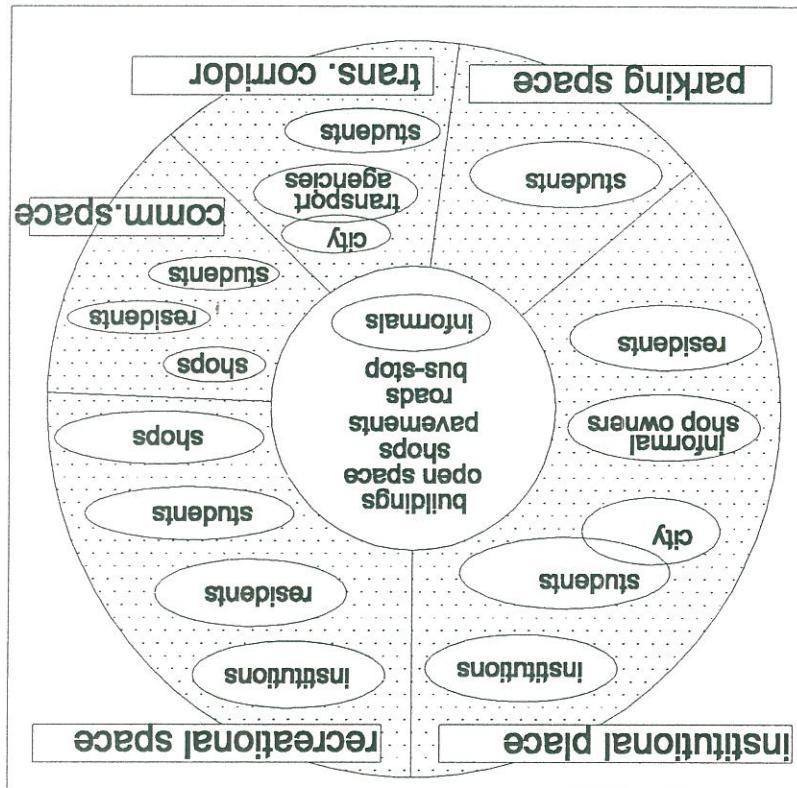
The Five Gardens have been a prime generator of the identity of this precinct. The generous scale and neutrality have been factors for the five gardens to assume a city level importance. Before independence these gardens formed a setting for the military band to be orchestrated in the central garden. Later the central garden started being used for political rallies and public meetings. Presently it is a multi-functional space. It assumes a different set of functions with time. While daily during the mornings and evenings it becomes a space for the residents of the neighbourhood to recreate/socialise, through the weak organisations. Late in the evenings it becomes a safe haven for young couples of the city. The ability of the space to take in different functions is because of the neutrality in the physical nature of the space.

5.4. FIVE GARDENS (fig 16)

Being an institutional node with a maidan in front, this space is being an institutional node with a maidan in front, this space is essentially used by the institutions, this place is also used by the neighborhood and the city for recreation. This place is also used by the informal shop owners to complement the institutional shop owners' use of the space. Its use as a through traffic corridor seems to be the only drawback.

Being an institutional node with a maidan in front, this space is being an institutional node with a maidan in front, this space is efficiently used. Though the traffic is well handled, the intensity of through traffic is detrimental to the institutional node.

INTEREST GROUPS



ACTIVITY PATTERN

Office use			
Institution			
Commercial			
Recreation			
morning	aftemoon	evening	

This area also forms a generator of pedestrian traffic, mainly towards the two stations.

Being an institutional node, this area is a generator of a large amount of traffic. This area also forms a node for the east-west crossing. But the space is only designed for this movement.

PEDESTRIAN MOVEMENT

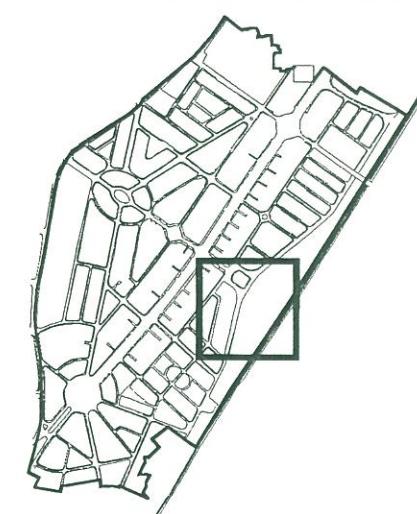


VEHICULAR MOVEMENT

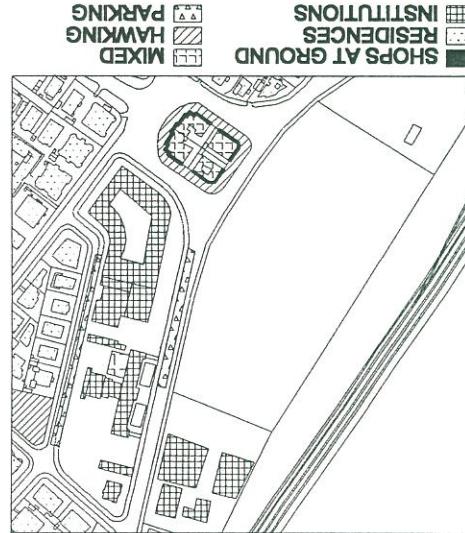


Notes
This precinct has the quality of an institutional node with colleges, sports clubs, play areas and restaurants. However the vehicular traffic on the adjoining street detracts from the quality of the precinct.

LOCATION PLAN



LANDUSE PLAN



HERITAGE STRUCTURES



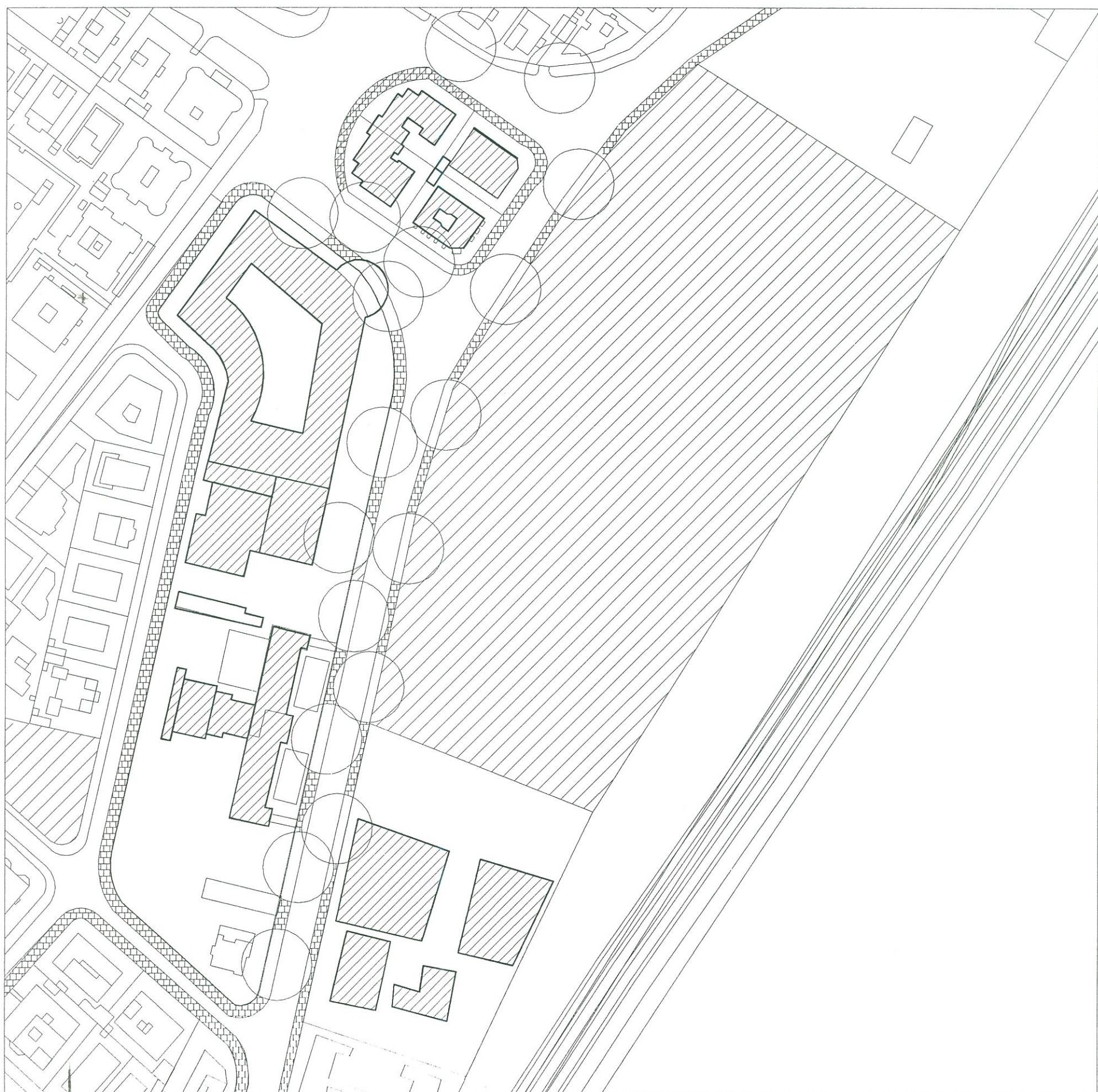
PLAN

100m

0 30m

Legend:

- GUTTER HOLE
- SIGNAL
- ELECTRIC
- MANHOLE
- FIRE HYDRANT
- TELEPHONE BOX
- SIGN BOARD
- LAMP POST

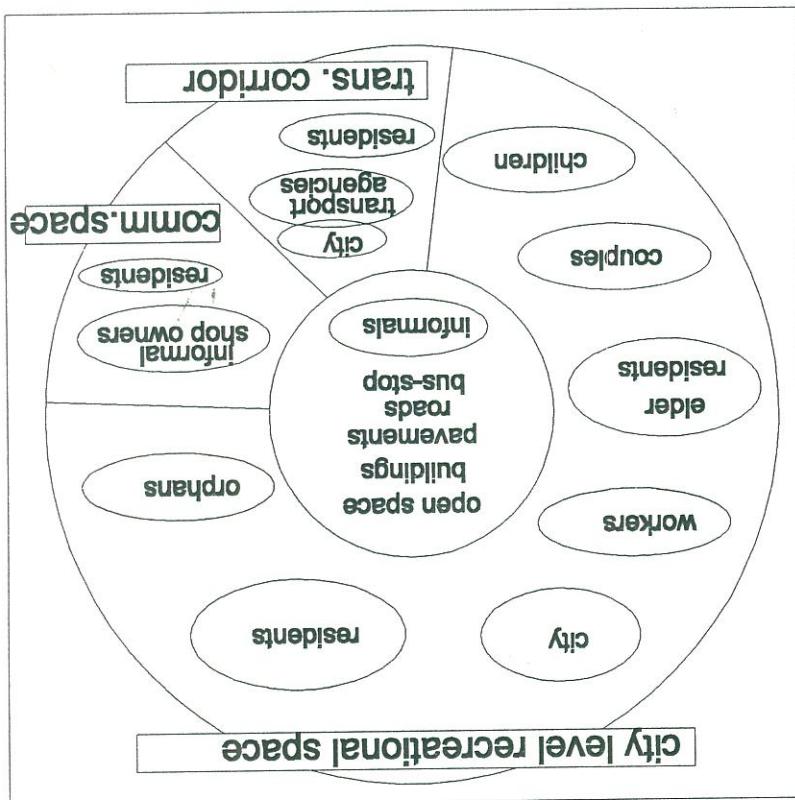




Five gardens not only forms a reacreatational area for the neighborhood, couples, etc use this place for different purposes at different times.

Five Gardens is used as an active reacreatational area. Though it handles a large amount of traffic at all hours, its planning is efficient enough to do so.

INTEREST GROUPS



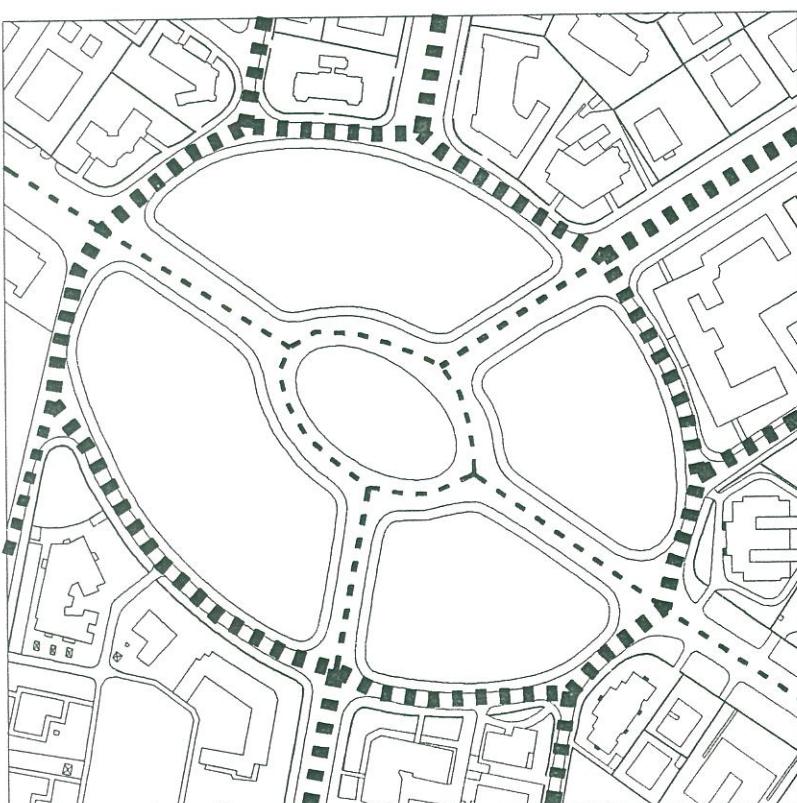
ACTIVITY PATTERN

				Office use
				Institution
				through vehicular traffic
				commerce
				recreation
morning	afternoon	evening		

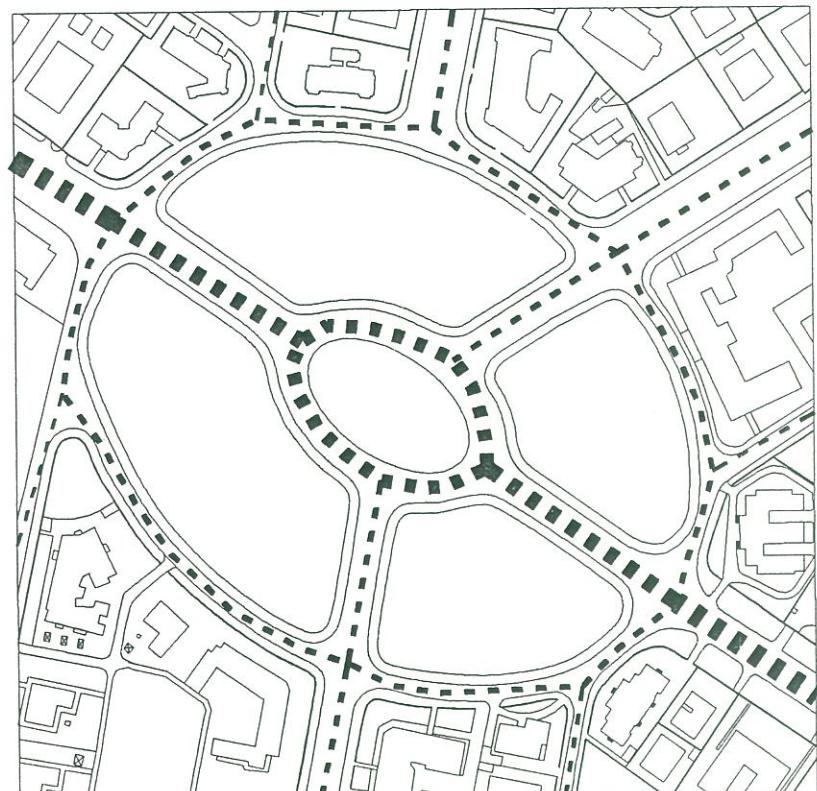
Lady Jamshedji road carries the east-west connecting traffic and hence forms the most active road with heavy vehicles. The inner roads more or less serve only the neighborhood with few outside vehicles. As opposed to the vehicular traffic, the Lady Jamshedji Road is the least used. The outer ring of the five gardens and the inner roads are the most used pedestrian roads. These roads are not only used by the residents for their leisure walks but are also preferred by all people moving in the precinct.

Lady Jamshedji road carries the east-west connecting traffic and hence forms the most active road with heavy vehicles. The inner roads more or less serve only the neighborhood with few outside vehicles.

PEDESTRIAN MOVEMENT

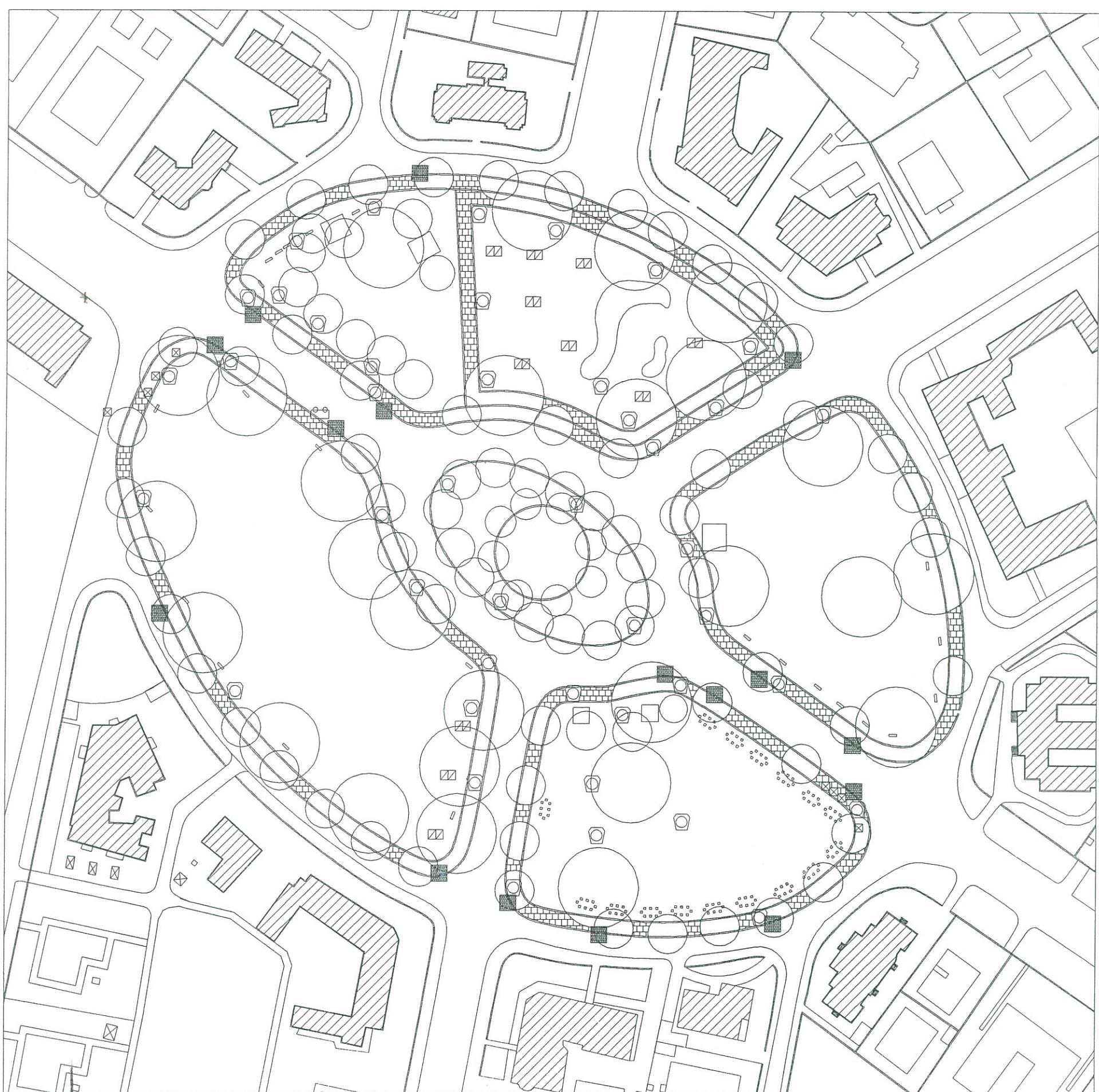
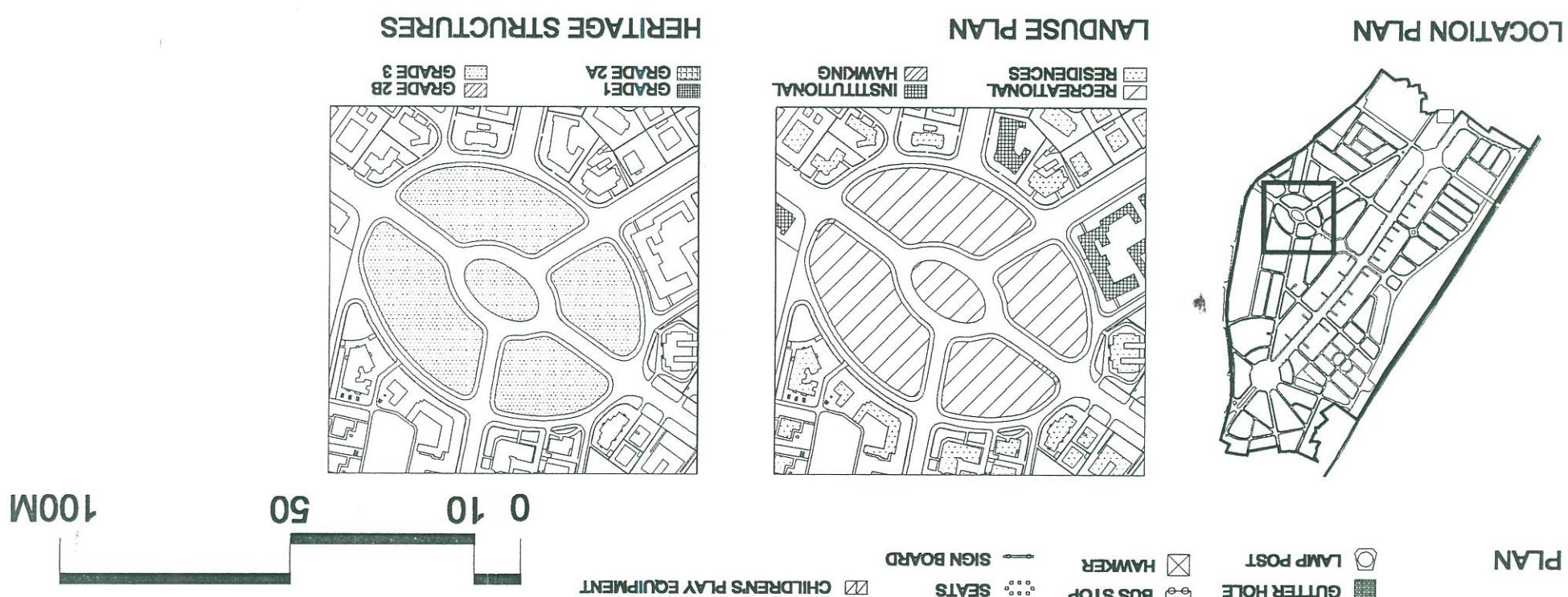


VEHICULAR MOVEMENT



The five gardens are under a threat of ad-hoc design decisions. Its landscape and furniture is insensitive towards the overall character.

Notes



+

The objective of the first part of the study was to understand the community's perception of the precinct as well as their reactions on issues on the precinct randomly through the precinct (appendix 4). The questionnaire contained distinct parts to it, which were as follows:

1. Data on the perception of the community of their own surroundings and their response to the changes undertaken.
2. The present participation of the community in preserving their buildings, their surroundings and their participation in social activities in the neighbourhood.
3. Data on the readiness of the community to participate in the upkeep of their neighbourhood.
4. Another part was dedicated to the collection of data on the community environment.

Based on the findings of the questionnaires it became clear that the precinct is divided into few identifiable neighbourhoods, which may be due to social affiliations. Due to this, problems faced by the residents of a certain area tend to be common within the neighbourhood and differ from those of the other neighbourhoods. These need to be examined differently (plate 53 to 57).

Parsi colony south and Hindu colony. The response from Matunga north and Matunga South was not adequate enough to include.
The above results for the questionnaire are only relevant for the sub-practitioners of Parsi colony north,
NUMBER OF RESPONDENTS: 40 PER NEIGHBOURHOOD.

DO YOU LIKE LIVING IN THIS AREA?

LIKES

ASSOCIATIVE MEMORY.

MARKETS.

INSTITUTIONS.

LOCATION IN MUMBAI.

VEGETATION.

COMMUNITY.

WELL PLANNED, QUIET AND CLEAN.

DISLIKES

SECURITY.

STREET MAINTENANCE.

BAD FOOTPATHS.

POLLUTION, TRAFFIC (AMBEDKAR ROAD).

REACTION TO CHANGES.

PLATE NO. 54

CANT SAY.

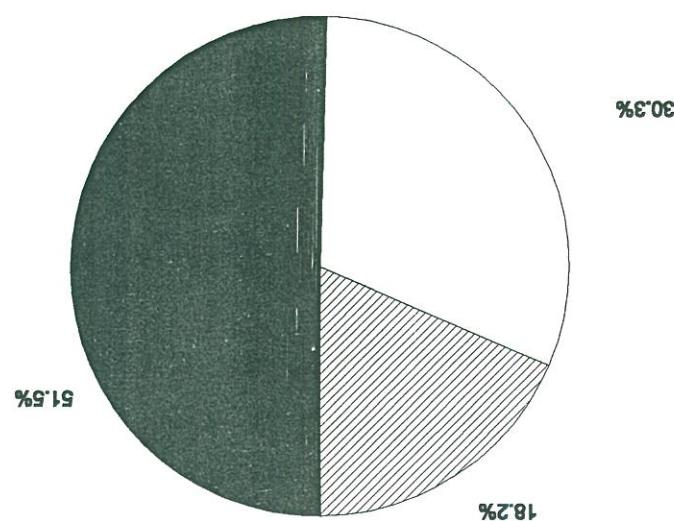
NEGATIVE.

POSITIVE.

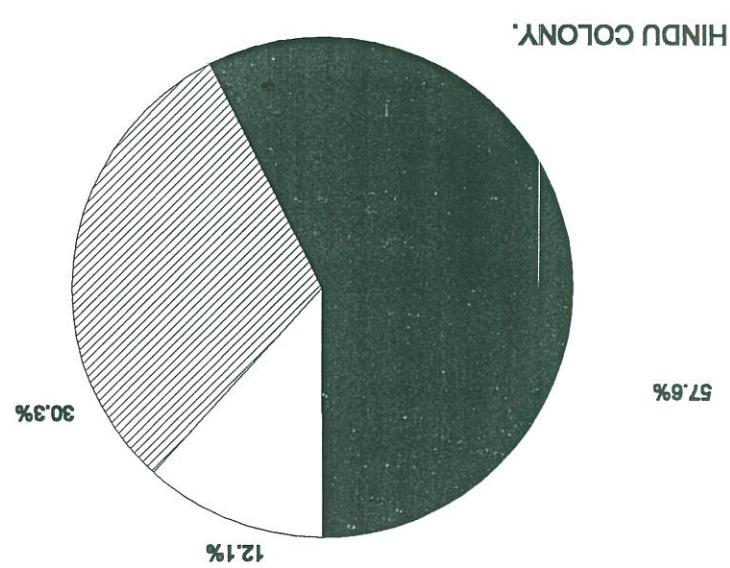
The above results for the questionnaire are only relevant for the sub-practitioners of Parsi colony north, Parsi colony south and Hindu colony. The response from Matunga north and Matunga South was not adequate enough to include.

NUMBER OF RESPONDENTS: 40 PER NEIGHBORHOOD.

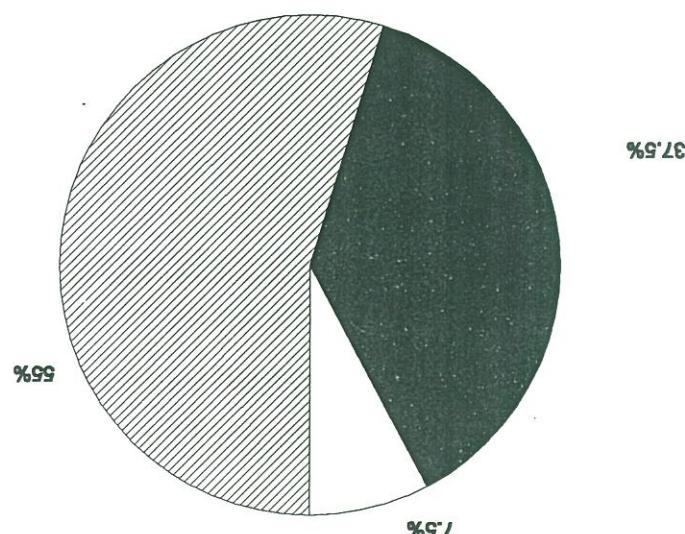
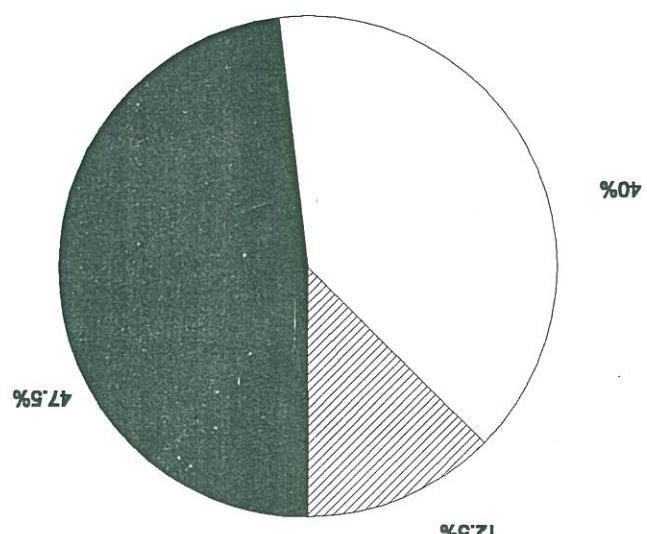
POSITIVE: 14.6% NEGATIVE: 47%



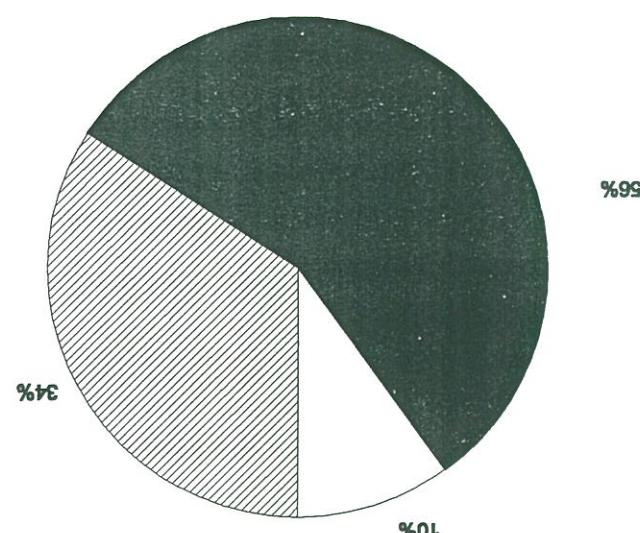
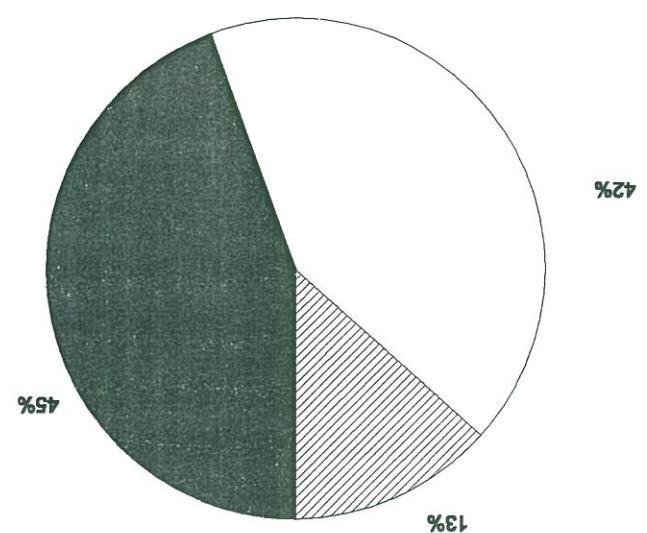
POSITIVE: 40% NEGATIVE: 50%



PARSI COLONY (SOUTH).



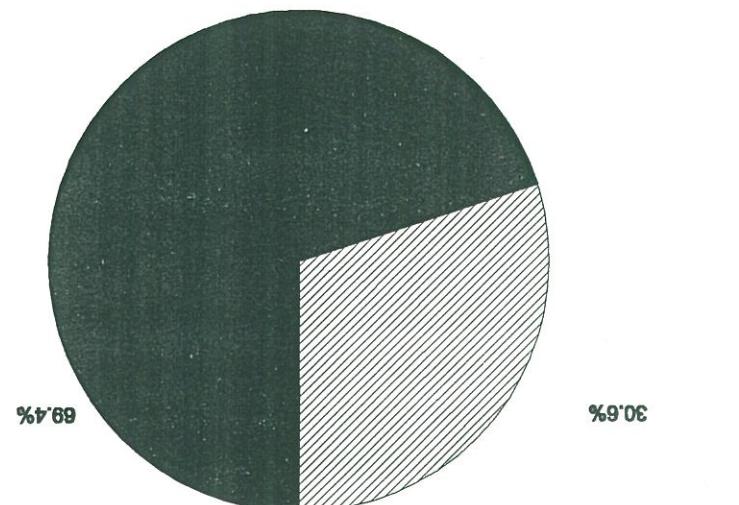
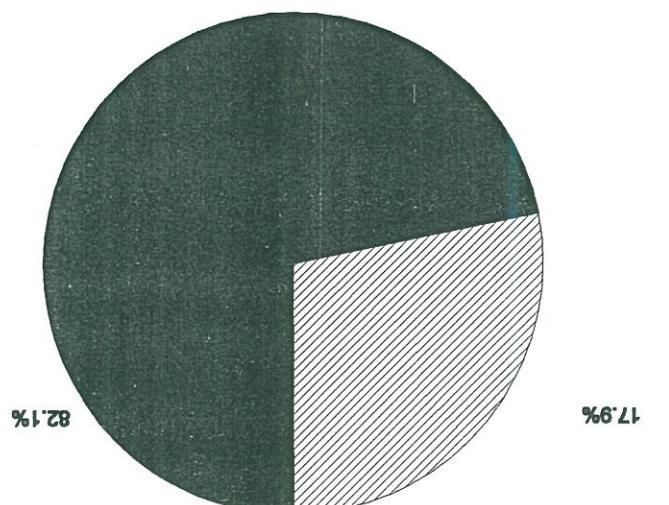
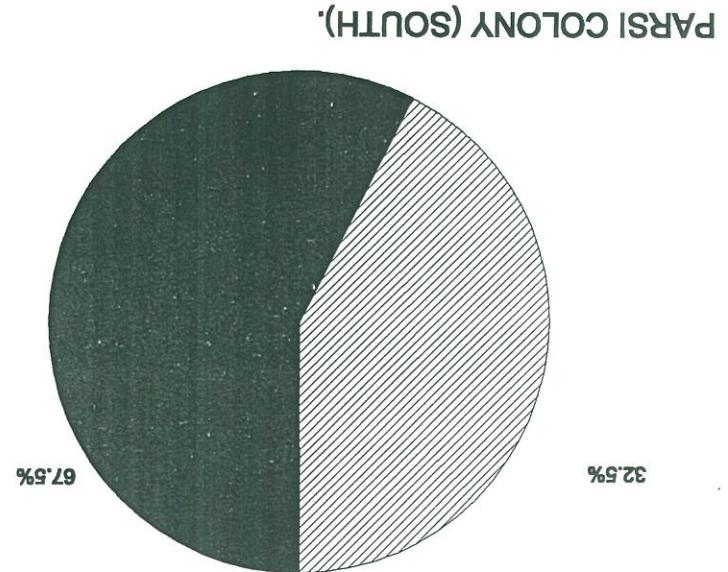
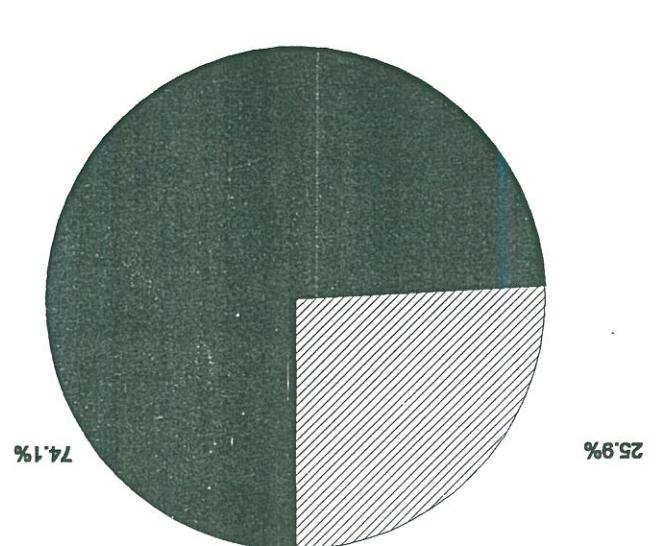
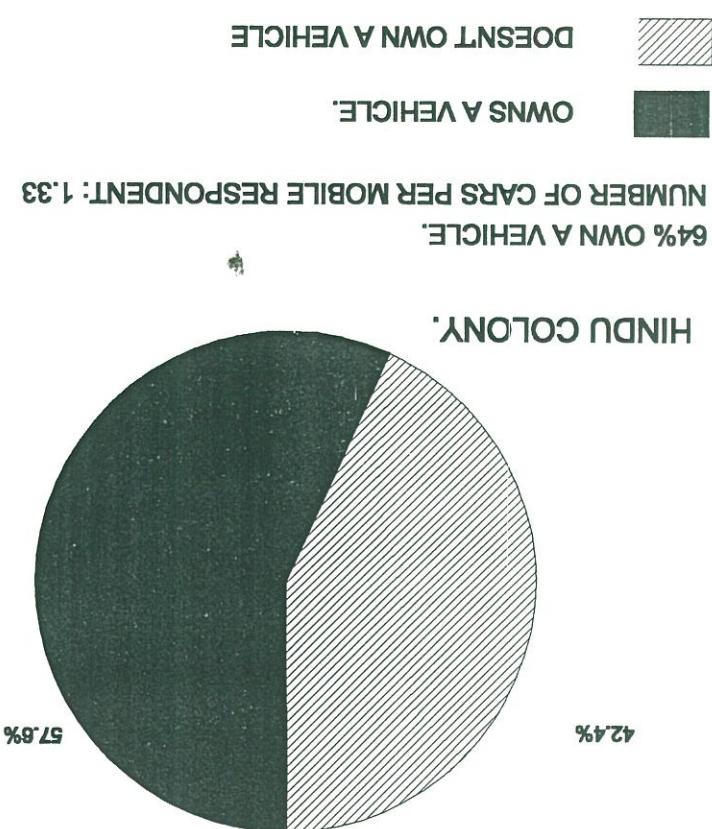
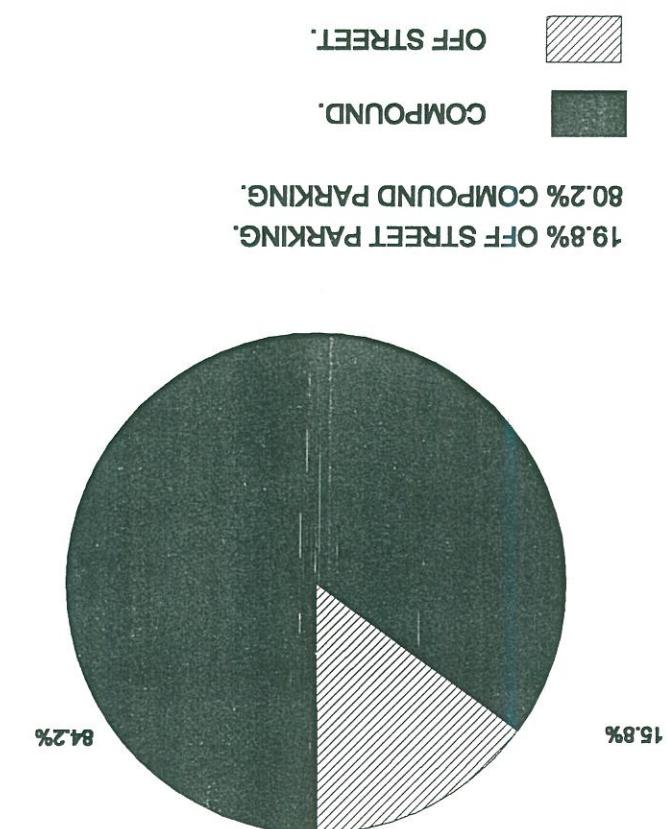
PARSI COLONY (NORTH).



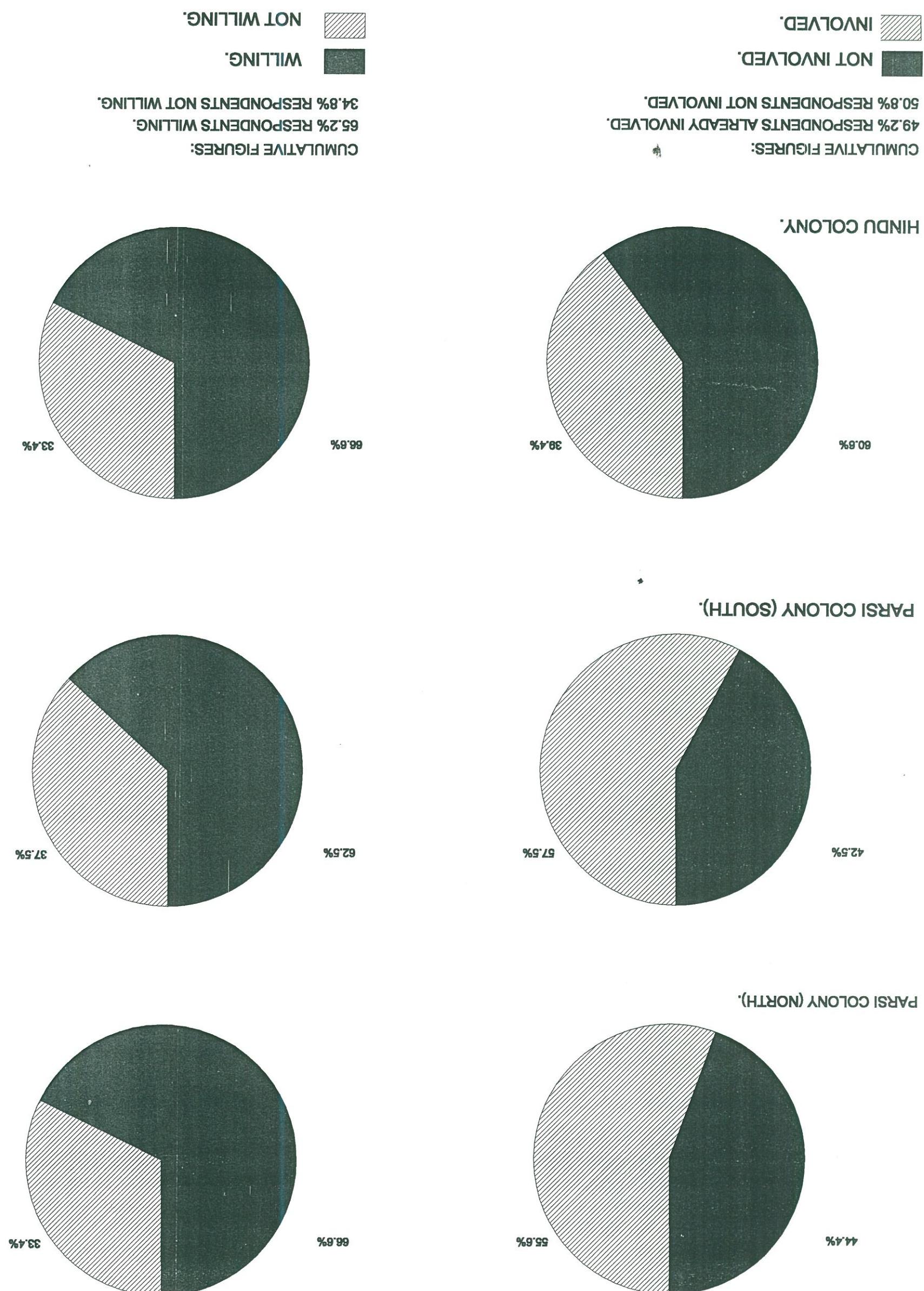
DO YOU USE FIVE GARDENS? WHAT DO YOU THINK OF THE PRESENT CHANGES?

BUILT OVER KHODADAD CIRCLE?
DO YOU APPROVE OF THE FLYOVER BEING

The above results for the questions are only relevant for the sub-practitioners of Parsi colony north, Matunga North and Matunga South was not adequate enough to include.
Parsi colony south and Hindu colony. The response from Matunga north and Matunga South was not adequate enough to include.
NUMBER OF RESPONDENTS: 40 PER NEIGHBORHOOD.



NUMBER OF RESPONDENTS: 40 PER NEIGHBORHOOD.
The above results for the questionnaire are only relevant for the sub-parochics of Paris colony north,
Paris colony south and Hindu colony. The response from Martinique north and Martinique South was not adequate enough to include.



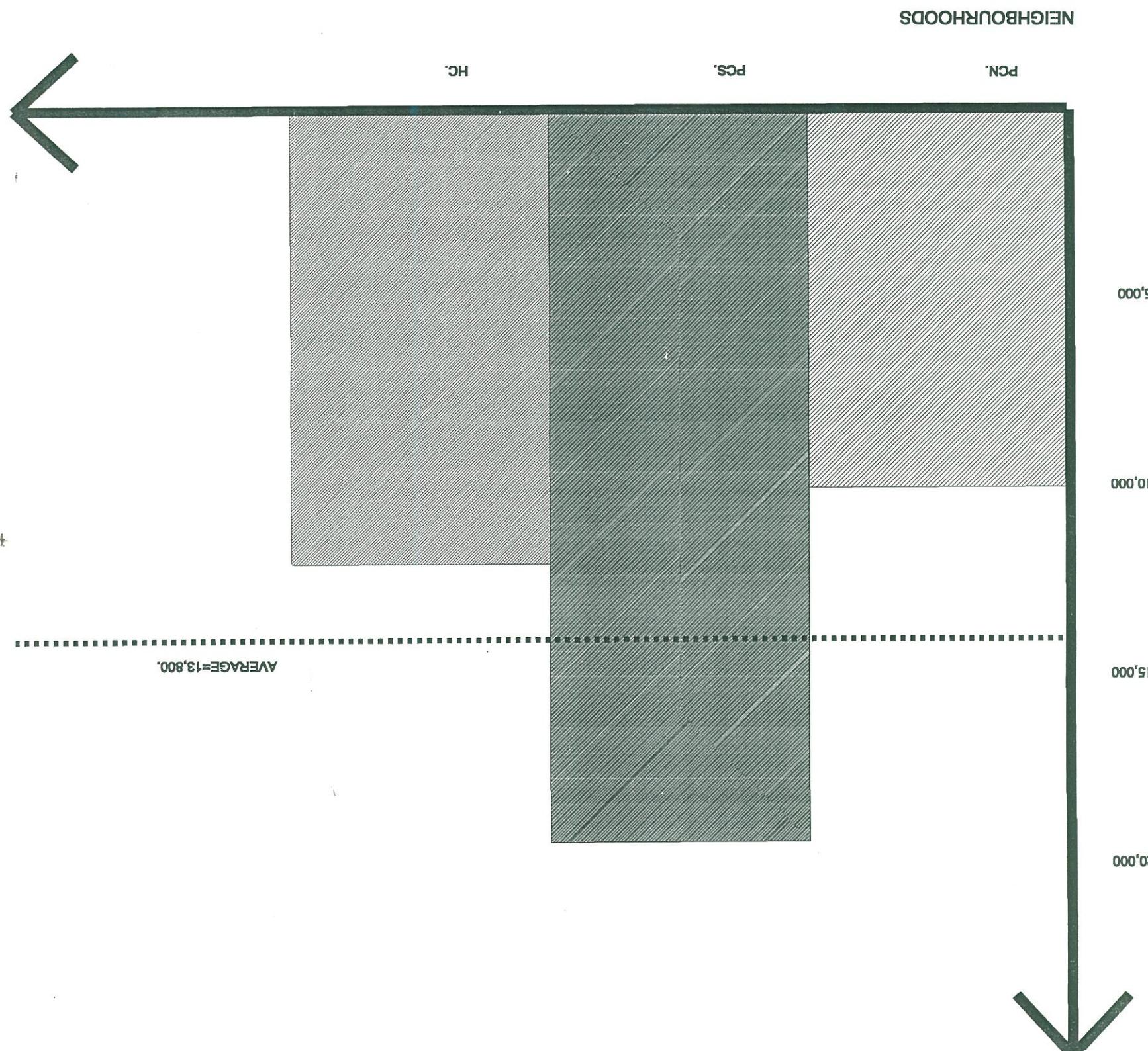
**ARE YOU WILLING TO PARTICIPATE IN THE
UPKEEP OF THE ENVIRONMENT.**



The above results for the questionnaire are only relevant for the sub-principals of Parsi colony north, Parsi colony south and Hindu colony. The response from Matunga north and Matunga South was not adequate enough to include.
NUMBER OF RESPONDENTS: 40 PER NEIGHBOURHOOD.

HINDU COLONY
PARSI COLONY (NORTH)
PARSI COLONY (SOUTH)

AVERAGE AMOUNT SPENT BY RESPONDENTS IN HINDU COLONY = RS 12,000/- PER ANNUM.
AVERAGE AMOUNT SPENT BY RESPONDENTS IN PARSI COLONY (SOUTH) = RS 19,500/- PER ANNUM.
AVERAGE AMOUNT SPENT BY RESPONDENTS IN PARSI COLONY (NORTH) = RS 10,000/- PER ANNUM.



TOWARDS MAINTENANCE OF YOUR HOUSE?
WHAT IS THE APPROXIMATE EXPENDITURE PER ANNUM

PROBLEMS AND OPPORTUNITIES

- Through the study of the precinct, a number of problems as well as opportunities have been identified. The problem and opportunities can be seen at many levels:
1. The change of this precinct from a suburb to a central location due to the city's expansion has created a lot of opportunities as well as problems for the precinct. While it has increased the importance of the urban spaces, the precinct's residential character is under threat. The increase in thoroughfare movement, intense parking and city landuse policies are a major cause for this.
 2. One major observation has been that individual owners seem to transform their properties whereas the government and trust properties remain unchanged. It reflects the aspirations of the inhabitants to transform their uncall for and such a decision might face stiff resistance from their owners. The open space structure of the precinct, is what lends it its character. The present byaws have not recognised this aspect of the precinct. The study therefore concludes that it is this open space structure that needs to be conserved.
 3. The open space structure of the precinct, is what lends it its character. The therefore concludes that it is this open space structure that needs to be conserved.
 4. Some of the urban spaces identified in the precinct are under threat e.g. in the case of Khoadaad circle, where the character and nature of this circle will soon be disturbed by the flyover built over it. Same is the case with the Five Gardens, where the city official threaten the multifunctional nature of the garden by their insertion of incompatible activities in the garden.
 5. This precinct has a number of sub-precincts, composed of neighbourhoods inhabitated by different communities. From the study of the communities in these neighbourhoods it can be concluded that they are aware of their environment and their participation could be harnessed to better the precinct. The strategies, which need to be adopted to address the above problems, will be elaborated in the second part.

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APPENDIX

APPENDIX 1

A Mumbai Improvement Trust plan of Dadar
Matunga Scheme Five showing 816 plots



APPENDIX 2

8) PERCENTAGE OF OPEN SPACES (5/1) - 34%

7) GROSS RESIDENTIAL DENSITY (4/1) - 56.4 dwelling/hectare

8) GLOBAL F.S.I. OF PRECINCT (6/1) - .93

6) TOTAL BUILT UP AREA - 140 Hectares



TOTAL AREA OF OPEN SPACE - 51 Hectare

Area of roads - 35 Hectares

Area of residential gardens - 9 Hectares

Area of urban spaces + gardens - 7 Hectares.

5) OPEN SPACES



4) NO. OF DWELLING UNITS - 8460

3) POPULATION OF PRECINCT - 70000 (Residents + Floating)

2) NO. OF PLOTS - 816 NOS.

1) AREA OF PRECINCT - 150 HECTARES

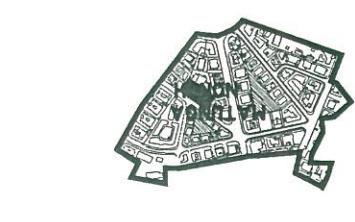
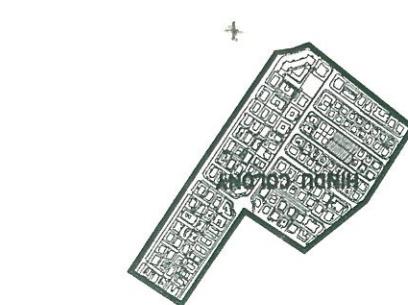
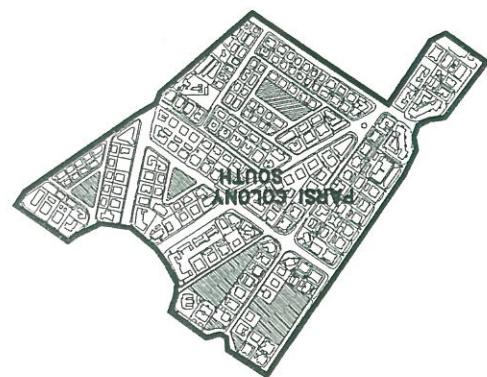


APPENDIX 3 - COMPARATIVE DATA FOR THE NEIGHBOURHOOD

0 50 100 200
500 M.

NOTES

STATEMENT OF AREA, GROUND COVERAGE FOR RANDOM SAMPLE OF PLOTS AND COMPARATIVE FIGURE FOR THE NEIGHBOURHOOD.



PLOT NO.	FRONTAGE	DEPTH	AREA	GROUND COVERAGE	FRONT	SIDE	REAR	SETBACKS	
								34.2%	34.4%
372	26	36	936	37%	8	5	3		
389	20	28	560	32%	6	4	4		
397	23	25	575	36%	6	5	3		
459	21	27	567	33%	5	4	6		
375	25	32	800	33%	5	7	4		

PERCENTAGE OF OPEN SPACE = 15%
TOTAL BUILT AREA = 9.6 HECTARE
AREA OF NEIGHBOURHOOD = 9.7 HECTARE
GLOBAL F.S.I. = 0.98

PLOT NO.	FRONTAGE	DEPTH	AREA	GROUND COVERAGE	FRONT	SIDE	REAR	SETBACKS	
								34%	34.2%
648	25	30	750	34%	7	6	4		
689	25	28	700	23%	6	5	11		
745	20	20	400	30%	4	4	4		
798	30	30	900	26%	5	5	12		
627	30	36	1080	24%	8	6	13		

PERCENTAGE OF OPEN SPACE = 34%
TOTAL BUILT AREA = 24.4 HECTARE
AREA OF NEIGHBOURHOOD = 31 HECTARE
GLOBAL F.S.I. = 0.78

PLOT NO.	FRONTAGE	DEPTH	AREA	GROUND COVERAGE	FRONT	SIDE	REAR	SETBACKS	
								30%	30%
515A	20	25	500	31%	6	4	4		
522	20	25	500	33%	6	4	4		
557	30	45	1350	28%	10	6	14		
592	30	33	990	28%	6	6	12		
447	30	30	900	30%	6	5.5	10		

PERCENTAGE OF OPEN SPACE = 30%
TOTAL BUILT AREA = 15.86 HECTARE
AREA OF NEIGHBOURHOOD = 17.09 HECTARE
GLOBAL F.S.I. = 0.92

PLOT NO.	FRONTAGE	DEPTH	AREA	GROUND COVERAGE	FRONT	SIDE	REAR	SETBACKS	
								17%	17.6%
156	20	30	600	25%	5	4	10		
148	18	25	450	33%	4	3	6		
125	20	25	500	30%	5	5	4		
173	30	32	660	30%	6	6	13		
76	18	17	306	30%	3	3	3		

PERCENTAGE OF OPEN SPACE = 17%
TOTAL BUILT AREA = 14.38 HECTARE
AREA OF NEIGHBOURHOOD = 13.06 HECTARE
GLOBAL F.S.I. = 1.01

PLOT NO.	FRONTAGE	DEPTH	AREA	GROUND COVERAGE	FRONT	SIDE	REAR	SETBACKS	
								18%	18.4%
294	16	30	480	38%	6	3.5	4		
249	20	25	500	30%	5	4	4		
217	30	600	31%	6	4	4			
269	22	30	660	35%	6	4	4		
315	24	30	720	38%	5	5	5		

PERCENTAGE OF OPEN SPACE = 18%
TOTAL BUILT AREA = 17.45 HECTARE
AREA OF NEIGHBOURHOOD = 17.8 HECTARE
GLOBAL F.S.I. = 0.98

PLOT NO.	FRONTAGE	DEPTH	AREA	GROUND COVERAGE	FRONT	SIDE	REAR	SETBACKS	
								34.2%	34.4%
372	26	36	936	37%	8	5	3		
389	20	28	560	32%	6	4	4		
397	23	25	575	36%	6	5	3		
459	21	27	567	33%	5	4	6		
375	25	32	800	33%	5	7	4		

PERCENTAGE OF OPEN SPACE = 15%
TOTAL BUILT AREA = 9.6 HECTARE
AREA OF NEIGHBOURHOOD = 9.7 HECTARE
GLOBAL F.S.I. = 0.98

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APPENDIX 4 - QUESTIONNAIRE DISTRIBUTED TO RESIDENTS

THE FOLLOWING QUESTIONNAIRE IS PART OF A STUDY BEING CONDUCTED BY THE KALALA RAHEDA VIDYANIDHI INSTITUTE FOR ARCHITECTURE AND ENVIRONMENTAL STUDIES TO FRAME GUIDELINES FOR THE CONSERVATION/ DEVELOPMENT OF THE KHODADAD CIRCLE, DADAR PARSI AND HINDU COLONY AND THE KING CRICLE PRECINCT. THE STUDY IS SPONSORED BY THE MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY (MRDA). GUIDELINES WHICH WOULD ALLOW ACTIVE PARTICIPATION OF THE COMMUNITY TO MANAGE THEIR OWN ENVIRONMENT. THE INTENT OF THE QUESTIONNAIRE IS TO HELP THE STUDY GROUP UNDERSTAND THE COMMUNITY'S PERCEPTION OF THE KHODADAD CIRCLE, DADAR PARSI AND HINDU COLONY PRECINCT. THIS WILL HELP THE STUDY GROUP TO FORMULATE GUIDELINES WHICH WOULD ALLOW ACTIVE PARTICIPATION OF THE COMMUNITY TO MANAGE THEIR OWN ENVIRONMENT.

1. NAME OF RESIDENT _____
2. PLAT NO. _____
3. MEMBERS IN YOUR FAMILY _____
4. DO YOU AND YOUR FAMILY LIKE LIVING IN THIS AREA? PLEASE ELABORATE.
5. WHERE DO YOUR CHILDREN PLAY? PLEASE SPECIFY THEIR AGE. _____
6. WHERE DO SENIOR CITIZENS IN YOUR FAMILY GO IN THEIR LEISURE TIME?
7. DO YOU THINK THE AREA PROVIDED FOR THE ABOVE IS SATISFACTORY? PLEASE ELABORATE.
8. ARE YOU OR ANY OF YOUR FAMILY MEMBERS, PRESENTLY, INVOLVED WITH ANY EXISTING GROUP / ORGANISATION FOR SOCIAL / CULTURAL / RELIGIOUS ACTIVITIES? PLEASE ELABORATE.
9. DO YOU USE FIVE GARDENS? WHAT DO YOU THINK OF THE PRESENT CHANGES?
10. DO YOU APPROVE OF THE NEW FLYOVER BEING BUILT OVER DADAR TT?
11. HAVE YOU NOTICED ANY SPECIFIC CHANGES IN YOUR AREA IN THE PAST FEW YEARS? HOW HAVE THESE CHANGES AFFECTED YOU?
12. WHAT VEHICLES DO YOU OWN? _____
13. WHERE DO YOU PARK YOUR VEHICLE/VEHICLES?
14. WHERE DO YOUR VISITORS PARK THEIR VEHICLES?
15. HOW DO YOU COMMUTE TO WORK? _____
16. IN WHAT CAPACITY DO YOU OCCUPY THE PREMISES: OWNER TENANT
17. IN CASE OF "TENANT" PLEASE STATE THE OWNER'S NAME, (INDIVIDUAL/ TRUST) _____
18. IF RENTED, IS YOUR FLAT AN EXTENSION OR A PART OF THE ORIGINAL STRUCTURE.
19. IS YOUR BUILDING PART OF A CO-OPERATIVE SOCIETY? IF, YES THEN SPECIFY NAME.
20. WHAT IS THE AVERAGE APPROX. INCOME PER MONTH FOR YOUR FAMILY?
21. FLOOR AREA OF PREMISES.
22. AGE OF THE RESIDENTIAL PREMISE.
23. WHAT IS THE APPROX. EXPENDITURE TOWARDS MAINTENANCE OF YOUR HOUSE PER ANNUM?
24. IS THERE ANY EXTENSION DONE TO YOUR BLDG? IF YES, WHEN?
25. DO YOU PAY ANY OF THE FOLLOWING:
26. DO YOU PROPOSE TO MAKE ANY CHANGES/ ALTERNATIONS TO YOUR HOUSE IN THE NEAR FUTURE? IF 'YES', PLEASE SPECIFY WHAT CHANGES.
27. WHAT DO YOU THINK ABOUT THE MAINTENANCE OF YOUR AREA BY THE BMC?
28. WOULD YOU PARTICIPATE IN ANY FORM FOR THE UPLIFT OF YOUR ENVIRONMENT?
29. ANY FURTHER SUGGESTIONS OR RECOMMENDATIONS PERTAINING TO YOUR ENVIRONMENT ARE WELCOME AND MAY BE MENTIONED HERE.

PLEASE ELABORATE.
29. ANY FURTHER SUGGESTIONS OR RECOMMENDATIONS PERTAINING TO YOUR ENVIRONMENT ARE WELCOME AND MAY BE MENTIONED HERE.

GOOD SATISFACTORY BAD
27. WHAT DO YOU THINK ABOUT THE MAINTENANCE OF YOUR AREA BY THE BMC?

28. WOULD YOU PARTICIPATE IN ANY FORM FOR THE UPLIFT OF YOUR ENVIRONMENT?

29. ANY FURTHER SUGGESTIONS OR RECOMMENDATIONS PERTAINING TO YOUR ENVIRONMENT ARE WELCOME AND MAY BE MENTIONED HERE.

PLEASE ELABORATE.