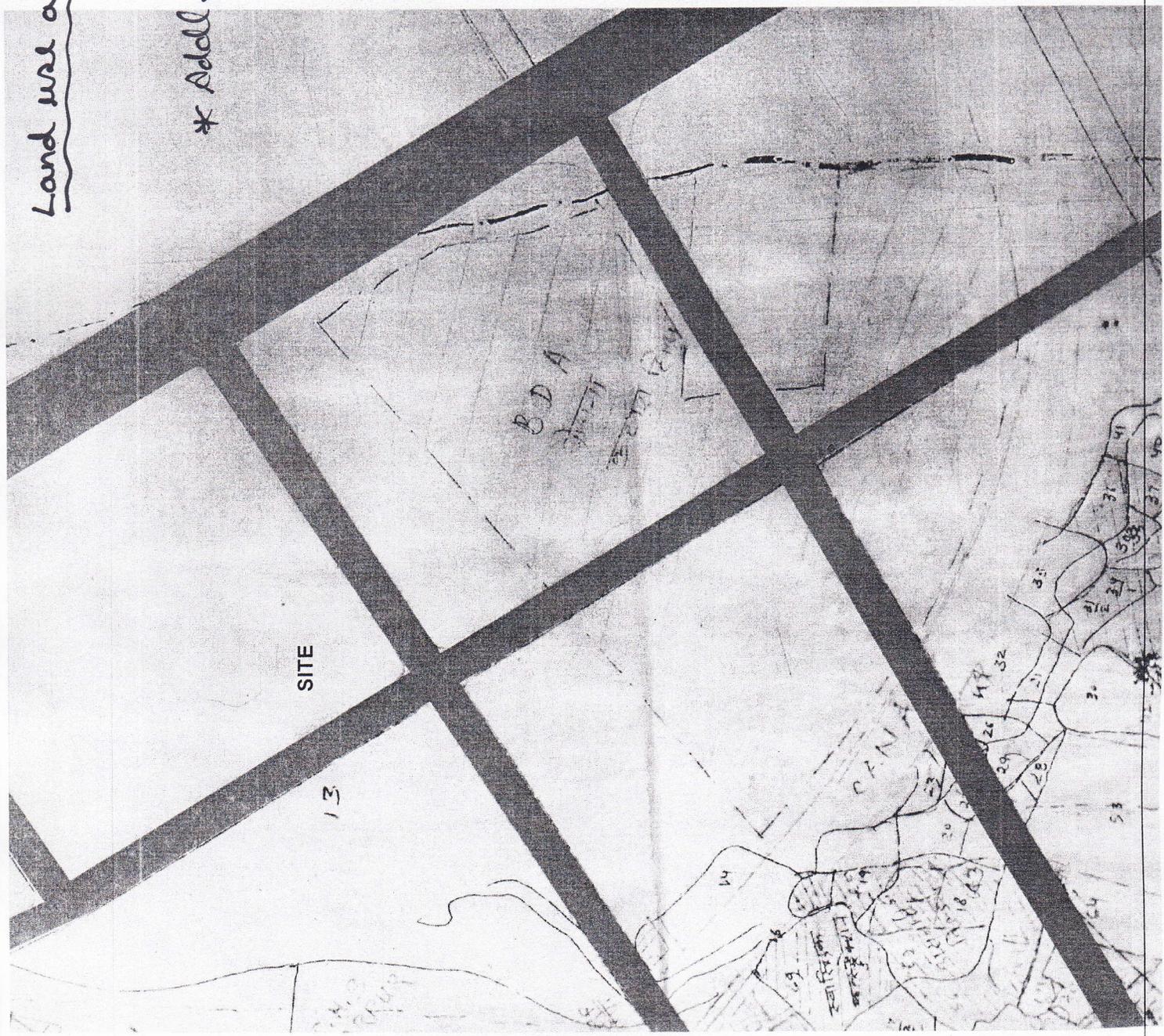


Land use as per development plan.

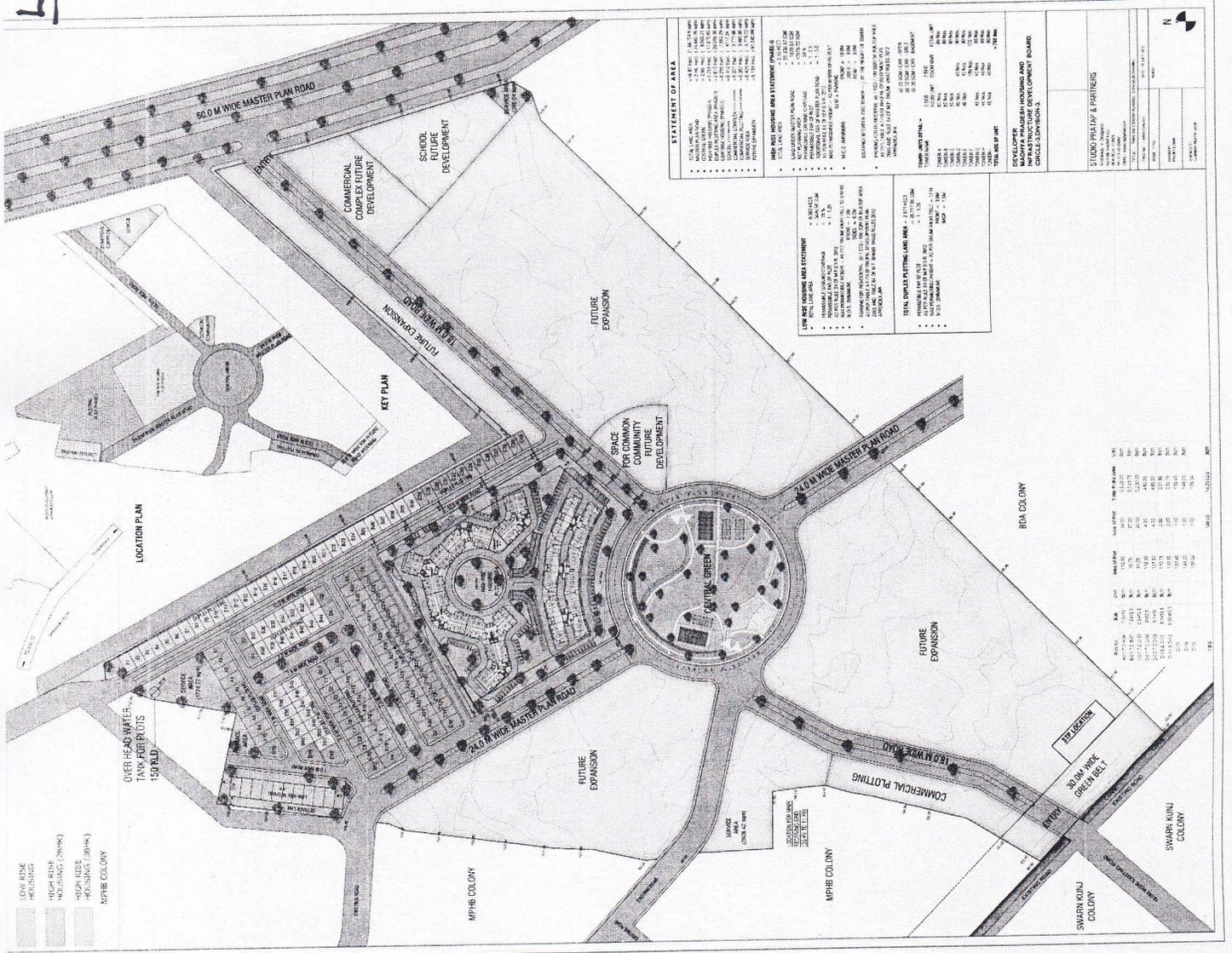
* Addl. information in case of HIGH RISE BUILDING

MASTER PLAN DEMARCATION



Layout plan

SITE PLAN



- LOW RISE HOUSING
- HIGH RISE HOUSING (200K)
- HIGH RISE HOUSING (300K)
- MPHB COLONY

STATEMENT OF AREA

TOTAL LAND AREA	1,48,72,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000

LOW RISE HOUSING DEVELOPMENT

RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000

TOTAL DEVELOPABLE LAND AREA

RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
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RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000
RESERVED LAND AREA	1,28,72,000
NET AVAILABLE LAND AREA	20,00,000

DEVELOPER INFORMATION AND MANUFACTURE DEVELOPMENT BOARD

DEVELOPER	STUDIO PRATAP & PARTNERS
MANUFACTURE DEVELOPMENT BOARD	CIRCLE NO. 10/11/12
STUDIO PRATAP & PARTNERS	
MANUFACTURE DEVELOPMENT BOARD	
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MANUFACTURE DEVELOPMENT BOARD	

DEVELOPER INFORMATION AND MANUFACTURE DEVELOPMENT BOARD

DEVELOPER	STUDIO PRATAP & PARTNERS
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DEVELOPER INFORMATION AND MANUFACTURE DEVELOPMENT BOARD

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DEVELOPER INFORMATION AND MANUFACTURE DEVELOPMENT BOARD

DEVELOPER	STUDIO PRATAP & PARTNERS
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DEVELOPER INFORMATION AND MANUFACTURE DEVELOPMENT BOARD

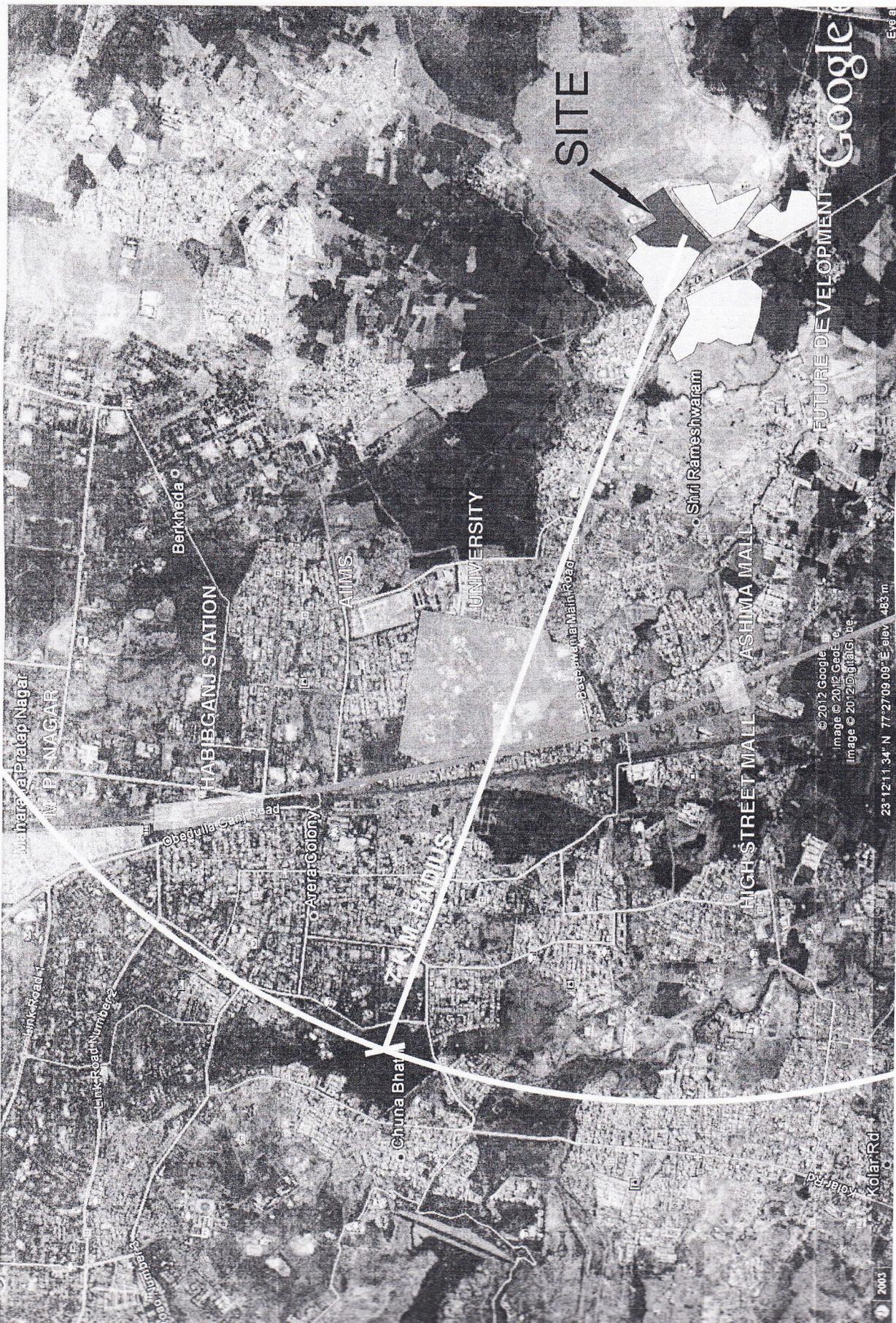
DEVELOPER	STUDIO PRATAP & PARTNERS
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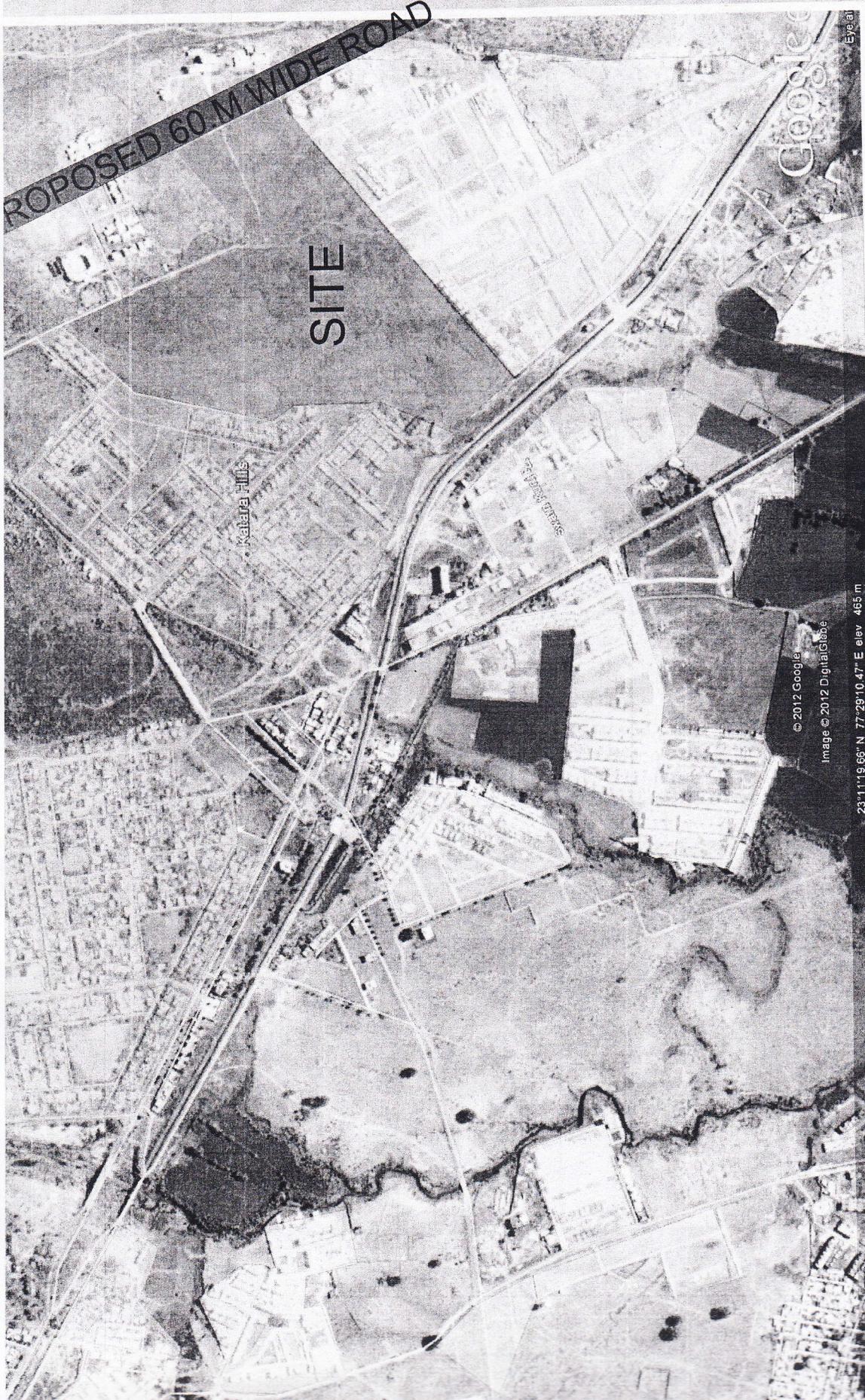
DEVELOPER INFORMATION AND MANUFACTURE DEVELOPMENT BOARD

DEVELOPER	STUDIO PRATAP & PARTNERS
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MANUFACTURE DEVELOPMENT BOARD	

site location
&
surrounding

SITE LOCATION AND SURROUNDINGS





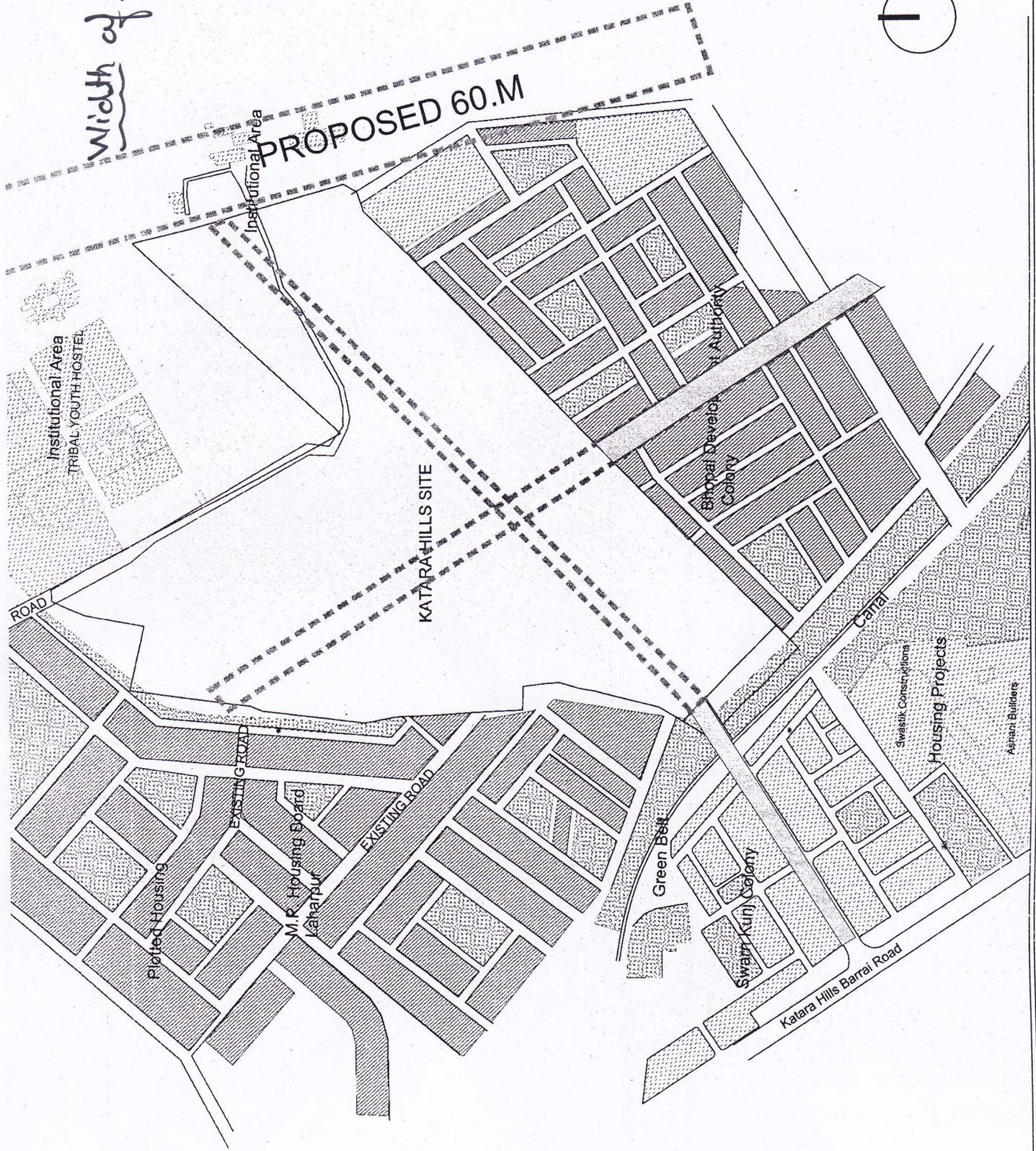
SITE

EXISTING NEIGHBORHOOD :- Mostly L.I.G and M.I.G Plots and duplexes.

FUTURE DEVELOPMENT :- Mostly future development has mix of L.I.G, M.I.G duplexes and 2BHK, 3BHK flats with G+6 to G+ 10 Structure.

Width of Proposed Road

PROPOSED 60.M



Institutional Area
TRIBAL YOUTH HOSTEL

KATARA HILLS SITE

Bhopal Development Authority Colony

Cannal

Housing Projects

Asham Builders

Swastik Constructions

Swastik Colony

Green Belt

Katara Hills Barral Road

Plotted Housing

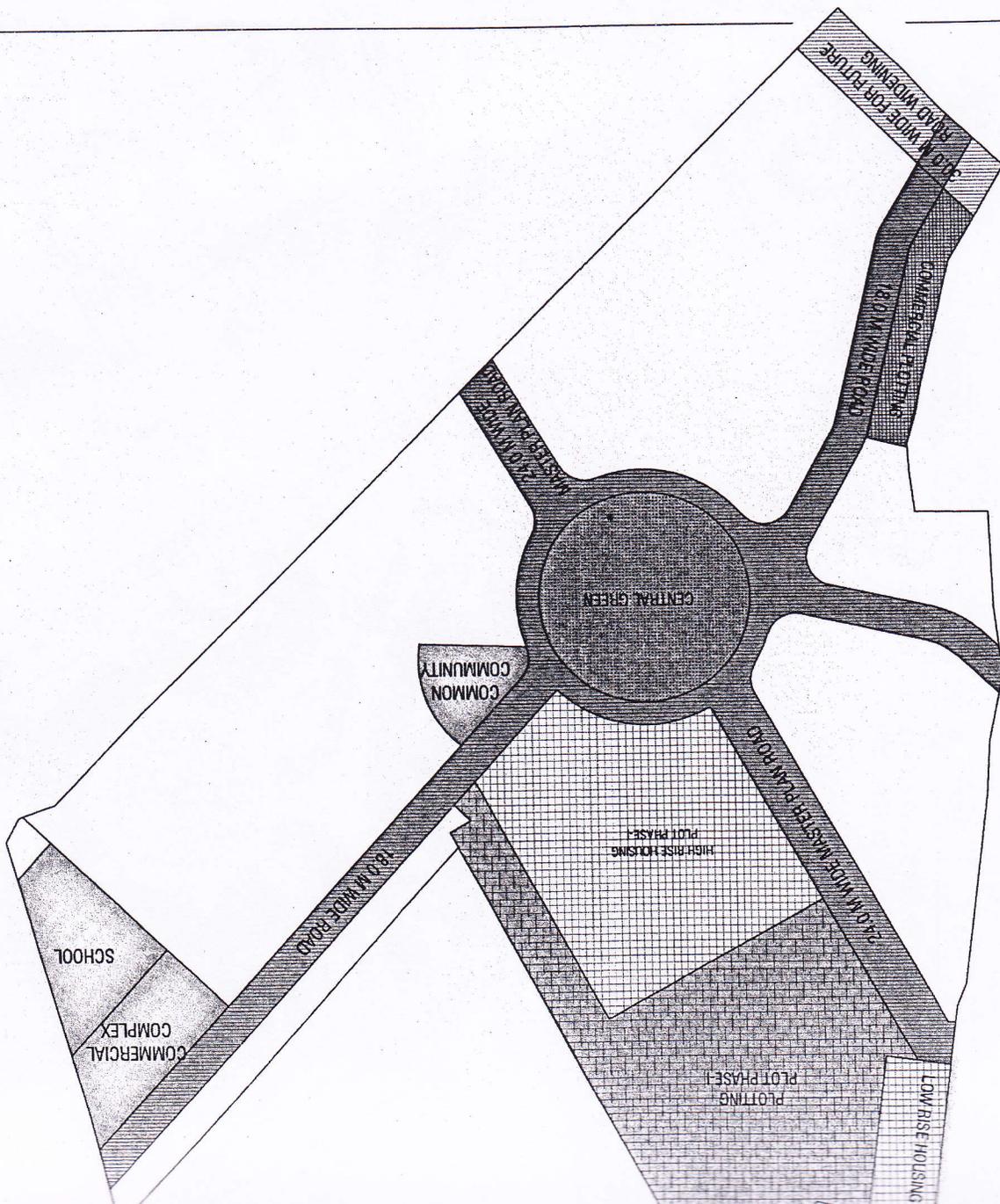
M.R. Housing Board
Kanarpur

EXISTING ROAD

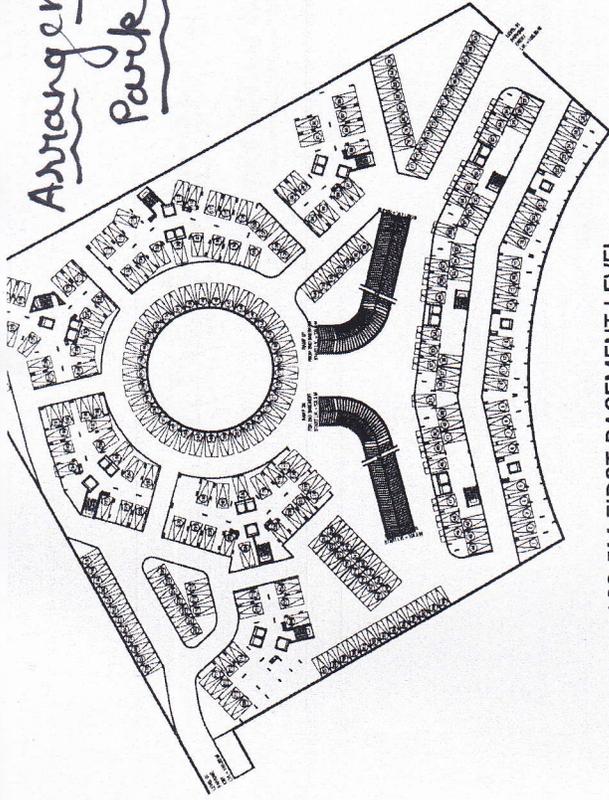
EXISTING ROAD

ROAD

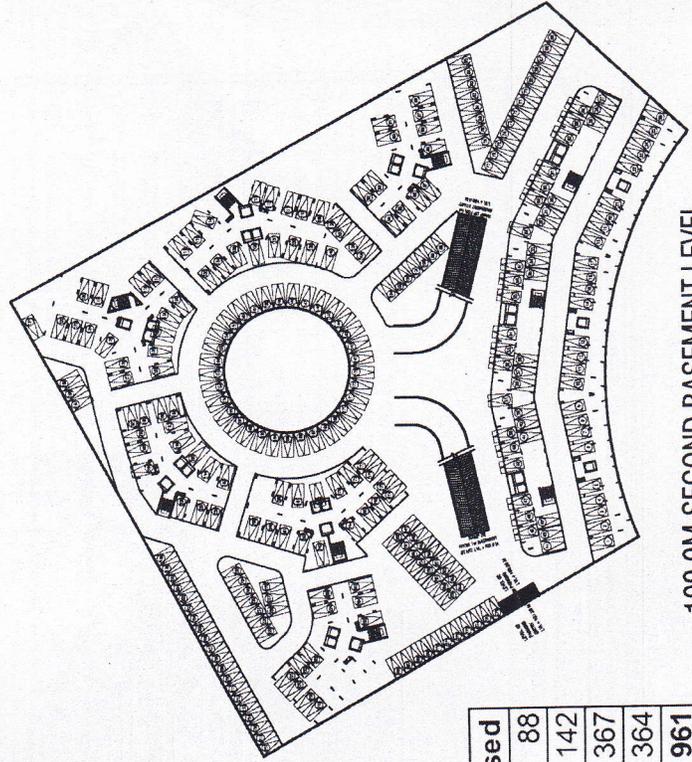
Provision of Entry & Exit



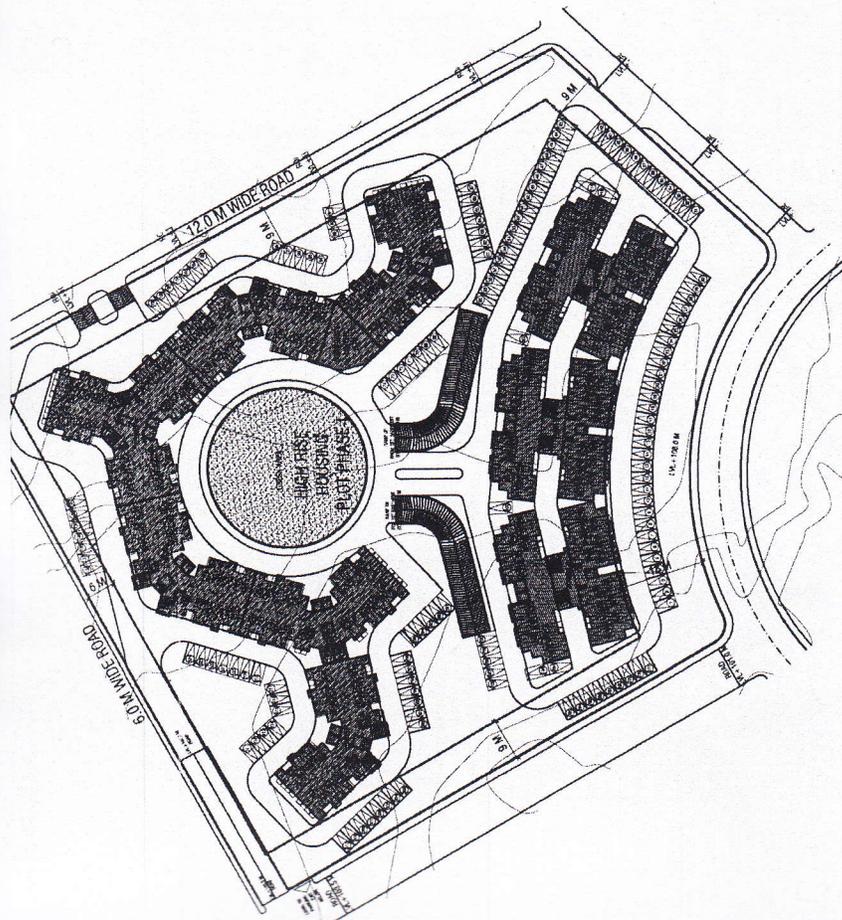
Arrangement of Parking



103.5M FIRST BASEMENT LEVEL



100.0M SECOND BASEMENT LEVEL



107.0M LEVEL STILT LEVEL

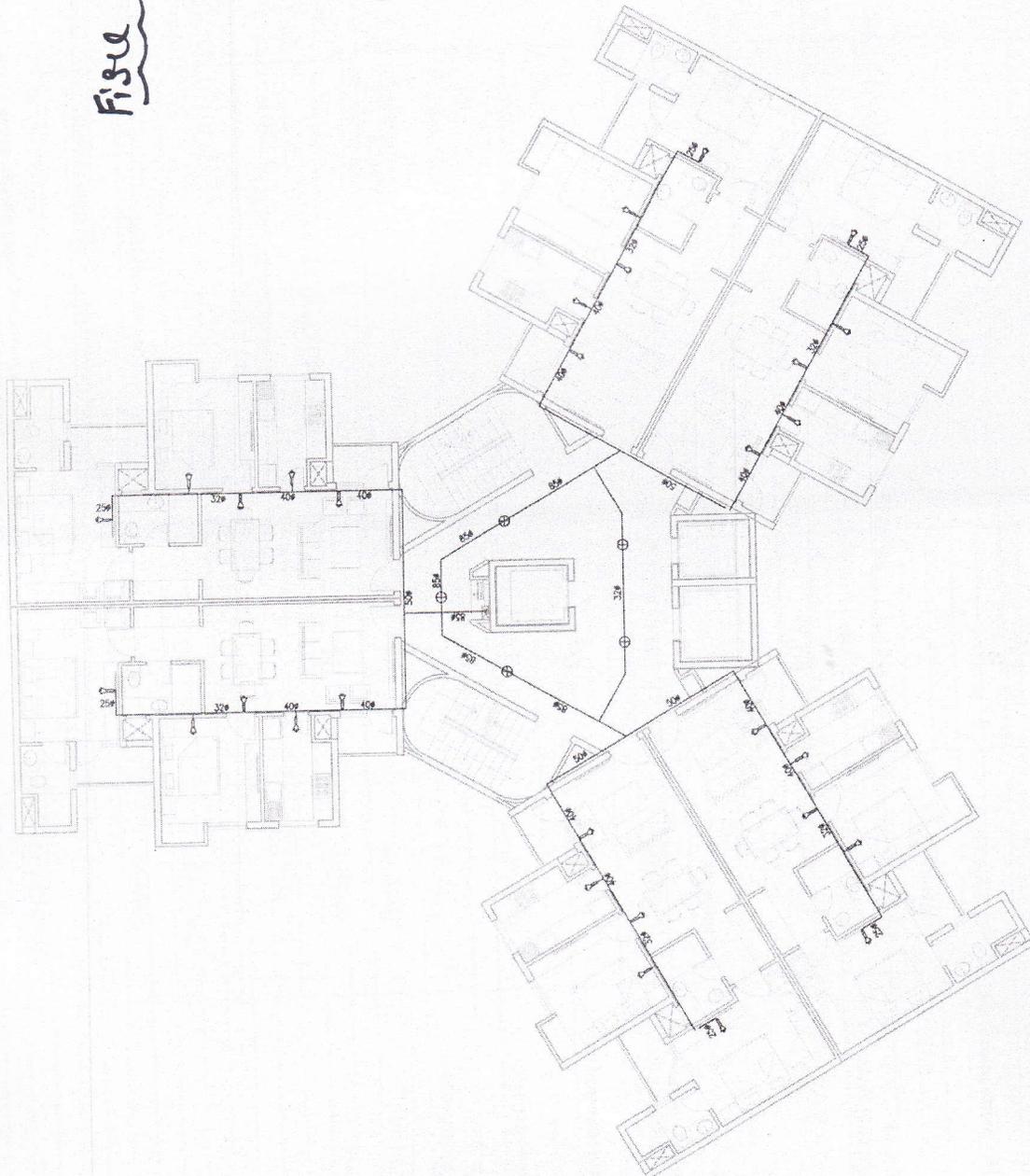
- PARKING FOR RESIDENTIAL
- TOTAL BUILT UP PROPOSED - 81,484.0 SQM;
- REQUIRED PARKING @ 1 ECS / 100 SQM OF BUILTUP AREA = 815

	Area Per ECS	Area in sqm	Parking Proposed
Open Car Parking	25	2196.2	88
Stilt Car Parking	30	4254.01	142
1st Basement Cas Parking	35	12853.81	367
2nd Basement Cas Parking	35	12753.9	364
			961

DEVELOPER
MADHYA PRADESH HOUSING
INFRASTRUCTURE DEVELOPER
CIRCLE-3, DIVISION-3.

STUDIO PRATAP & PARTNER
ARCHITECTS
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2901, 2902, 2903, 2904
2905

*Fire fighting
measures*



SERVICES FIRE FIGHTING



LEGEND

⊕	FIRE HYDRANT (TYPE 1)
⊖	WATER VALVE (TYPE 1)
⊙	EXTINGUISHER (TYPE 1)
⊛	WATER METER (TYPE 1)
⊠	WATER METER (TYPE 2)
⊡	WATER METER (TYPE 3)
⊢	WATER METER (TYPE 4)
⊣	WATER METER (TYPE 5)
⊤	WATER METER (TYPE 6)
⊥	WATER METER (TYPE 7)
⊦	WATER METER (TYPE 8)
⊧	WATER METER (TYPE 9)
⊨	WATER METER (TYPE 10)
⊩	WATER METER (TYPE 11)
⊪	WATER METER (TYPE 12)
⊫	WATER METER (TYPE 13)
⊬	WATER METER (TYPE 14)
⊭	WATER METER (TYPE 15)
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⊱	WATER METER (TYPE 19)
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⊿	WATER METER (TYPE 45)
⊿	WATER METER (TYPE 46)
⊿	WATER METER (TYPE 47)
⊿	WATER METER (TYPE 48)
⊿	WATER METER (TYPE 49)
⊿	WATER METER (TYPE 50)

FIRE HOSE CABINET DETAILS

FIRE HOSE CABINET (TYPE 1)

1. 100% NYLON HOSE WITH

2. 100% NYLON HOSE WITH

3. 100% NYLON HOSE WITH

4. 100% NYLON HOSE WITH

5. 100% NYLON HOSE WITH

6. 100% NYLON HOSE WITH

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47. 100% NYLON HOSE WITH

48. 100% NYLON HOSE WITH

49. 100% NYLON HOSE WITH

50. 100% NYLON HOSE WITH

ZONAL CONTROL VALVE DETAIL

ZONAL CONTROL VALVE (TYPE 1)

ZONAL CONTROL VALVE (TYPE 2)

ZONAL CONTROL VALVE (TYPE 3)

ZONAL CONTROL VALVE (TYPE 4)

ZONAL CONTROL VALVE (TYPE 5)

ZONAL CONTROL VALVE (TYPE 6)

ZONAL CONTROL VALVE (TYPE 7)

ZONAL CONTROL VALVE (TYPE 8)

ZONAL CONTROL VALVE (TYPE 9)

ZONAL CONTROL VALVE (TYPE 10)

ZONAL CONTROL VALVE (TYPE 11)

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ZONAL CONTROL VALVE (TYPE 14)

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ZONAL CONTROL VALVE (TYPE 16)

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ZONAL CONTROL VALVE (TYPE 44)

ZONAL CONTROL VALVE (TYPE 45)

ZONAL CONTROL VALVE (TYPE 46)

ZONAL CONTROL VALVE (TYPE 47)

ZONAL CONTROL VALVE (TYPE 48)

ZONAL CONTROL VALVE (TYPE 49)

ZONAL CONTROL VALVE (TYPE 50)

Project: KATARAHILLS

Client: MADHYA PRADESH HOUSING AND INFRASTRUCTURE DEVELOPMENT BOARD, CIRCLE-3, DIVISION-3.

Scale: N.T.S.

Drawn by: GAEMIRI PRITIP Singh

Checked by: GAEMIRI PRITIP Singh

DRG NO.: KMH / IS / NH16

DATE: 10 OCT 2013

Scale: N.T.S.

Drawn by: GAEMIRI PRITIP Singh

Checked by: GAEMIRI PRITIP Singh

STUDIO PRATAP & PARTNERS
 Architects + Urban Design
 4/1128, VASANT KUNJ,
 WILDLIFE - 110070
 T. 011-46105242

FIRE FIGHTING SYSTEM

Required	proposed
CLASS OF FIRE	MODERATE
Fire Extinguisher	Required
Fire Hose Reel	Required
Fire Alarm System	Not Required
Fire Alarm Riser	Required
Fire Alarm Horn-Comer	Not Required
Fire Alarm External Yard Hydrant	Required
Automatic Sprinkler System	Required
Annually Operated Electric Fire Alarm System	Required
Automatic Detection and Alarm system	Not Required
Underground Static Water Storage Tank	75,000
Terrace Tank (in Litters)	10,000
Fire Pump Capacity (Roof Lvl.)	Not Required
Travel Distance - For Dead Ends	45 meter 22.5 meter 20.0 M
Refuge Area - Additional space required for assembling	Required
Helipad	Not Required
Fire Zoning - by two hours fire rating	Not Required
Maximum area covered in one fire zone	1125 m ² For Sprinkler building area increased by 50%

Tech Consultancy Services, New Delhi.
 Phone: (011) 47011640-3. Fax: (011) 27947524.
 Page - 1

Required	proposed
19 Drainage arrangement for fire cause	Required - for sprinkler water
20 Fire Rating for Service duct / shafts	Minimum 1 hours
21 No of staircase required	Minimum - 2 Nos. and distance between staircase not more than 90 meter and 22.5 meter from dead end.
22 Minimum Width of staircase	1.2 Meter
23 Closing of shaft and ducts	All shaft shall be closed each floor - fire and smoke check

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 Page - 2



PHASE - I					
Description	Type of DUs	Total No. of DUs	Area / DU (Sq. feet)	Maximum Demand (KW) / DU	Total MD (KW)
	Villas	146	1400	3	438
	2 Bed Room	320	800	2	640
	3 Bed Room	460	1200	3	1380
				L / S	680
Misc. Development & Common facilities such as Lifts. Pumps, Fire Pumps, External Lighting, community facilities, School, Club					
Total MD of Phase - I					3138
Net MD of Phase - I in KW (Considering over all Diversity 80 %)					2510.4
Net MD of Phase - I in KVA (Considering 0.85 P. F.)					2953
TRANSFORMER CAPACITY (BY LOADING UPTO 80%)					3692
Considering that Max. capacity of Transformers permissible as per MPSEB Norms as 315 KVA, we shall need to install 15 Nos. Sub - Stations each of capacity of 315 KVA along with 11 KV H.T. Panel and suitable L.T. Panel.					
Project load assessment for future development (Assuming 416 DUs/Hect.)					
Total MD of Phase - II					11422
Net MD of Phase - II in KW (Considering over all Diversity 80 %)					9137.6
Net MD of Phase - II in KVA (Considering 0.85 P. F.)					10750
TRANSFORMER CAPACITY (BY LOADING UPTO 80%)					13438

FOR HIGH RISE (Phase -I)

S. No.	Item Description	Number of Units	Persons / Unit	Total Population	Water Requirement / head (litres)	Total water Requirement (litres)
A	Fresh Water Requirement					
1	For 3BHK	440	4.8	2112	105	221760
2	For 2BHK	320	4.8	1536	105	161280
3	For Servant	285	1	285	105	29925
4	Maintenance Staff	1	10	10	20	200
5	Water Treatment plant back wash & regeneration			3943		4,000
	Sub Total of A					417,165
B	Flushing Water					
1	For 3BHK	480	4.8	2304	25	57600
2	For 2BHK	320	4.8	1536	25	38400
3	For Servant	285	1	285	25	7125
4	For EWS	0	0	0	25	0
5	Maintenance Staff	1	10	10	15	150
	Sub Total of B					103,275
	Total water requirement (A+B)					520,440

FOR Villa and Low Rise (Phase -I)

S. No.	Item Description	Number of Units	Persons / Unit	Total Population	Water Requirement / head (litres)	Total water Requirement (litres)
A	Fresh Water Requirement					
1	For Villa	146	4.8	700.8	105	73584
2	For 3BHK	20	4.8	96	105	10080
6	Maintenance Staff	1	10	10	90	900
7	Water Treatment plant back wash & regeneration					4,000
	Sub Total of A					88,564
B	Flushing Water					
1	For Villa	146	5	730	25	18250
2	For 3BHK	20	5	100	25	2500
6	Maintenance Staff	1	10	10	15	150
	Sub Total of B					20,900
	Total water requirement (A+B)					109,464

FOR All Phases

S. No.	Item Description	Total Population	Water Requirement / head (litres)	Total water Requirement (litres)
A	Fresh Water Requirement			
1	Projected Population	22731	75	1704825
	Sub Total of A			1,704,825
B	Flushing Water			
1	Projected Population	22731	25	568275
	Sub Total of B			568,275
	Total water requirement (A+B)			2,273,100

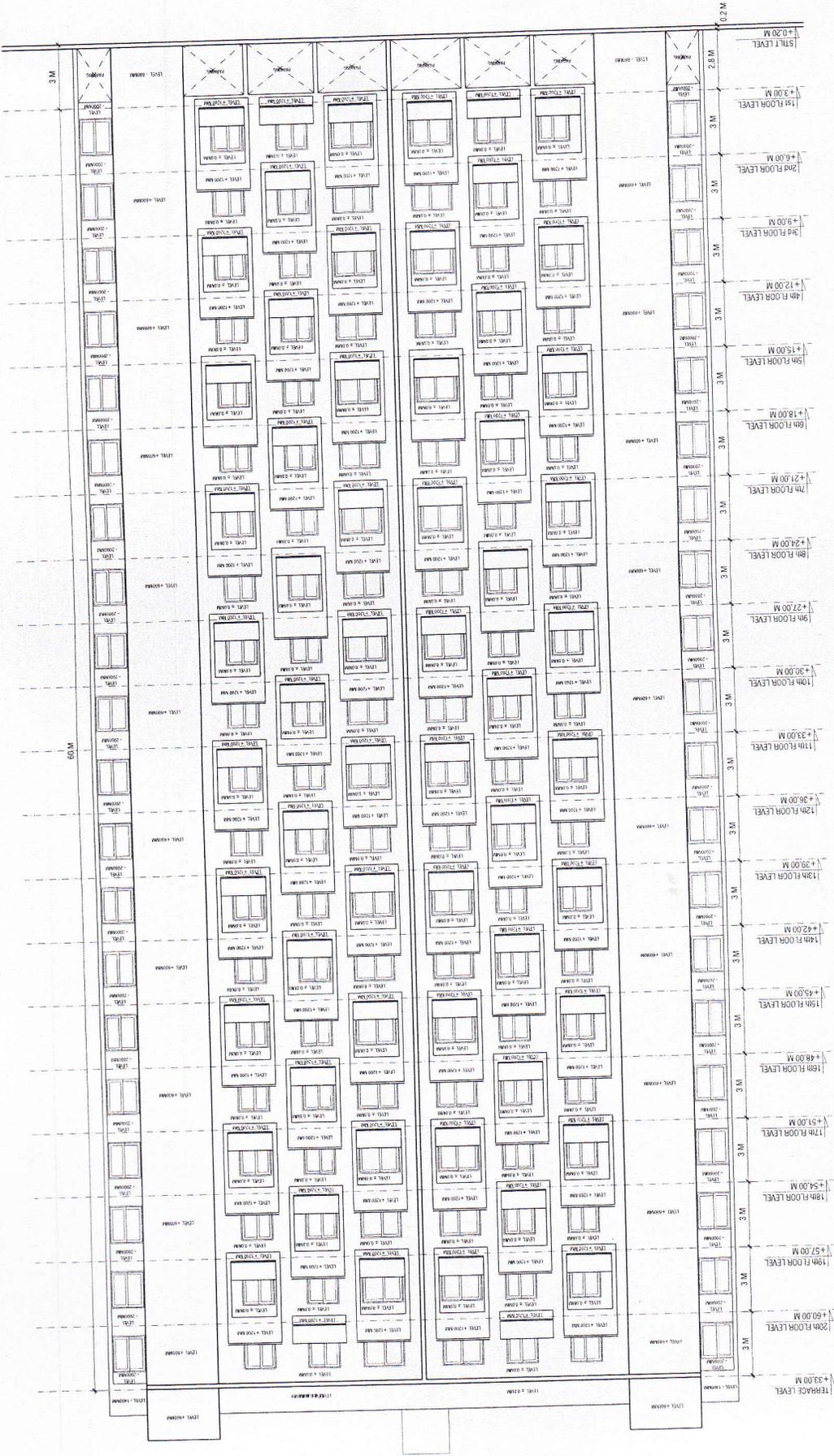
Plans of Each Floor



STUDIO PRATAP & PARTNERS Architects + Urban Design B-4 / 3128, VASANT KUNJA, NEW DELHI - 110070 PH: 011-45103242	Developer: MADHYA PRADESH HOUSING AND INFRASTRUCTURE DEVELOPMENT BOARD. CIRCLE-3, DIVISION-3.		Project: KATARAHILLS Title: CLUSTER PLAN (TOWER-A, B & C) TOWN AND COUNTRY PLANNING (SUBMISSION DRAWING)		DRG. NO.: KHH/13/KH08 DATE: 10 OCT 2013 SCALE: N.T.S. DRAWN BY: CHECKED BY: GAJENDER PRATAP SINGH	NORTH
	ARCH. NO. 13/2013					

Elevations

ELEVATION 'A'
TOWER-A, B & C



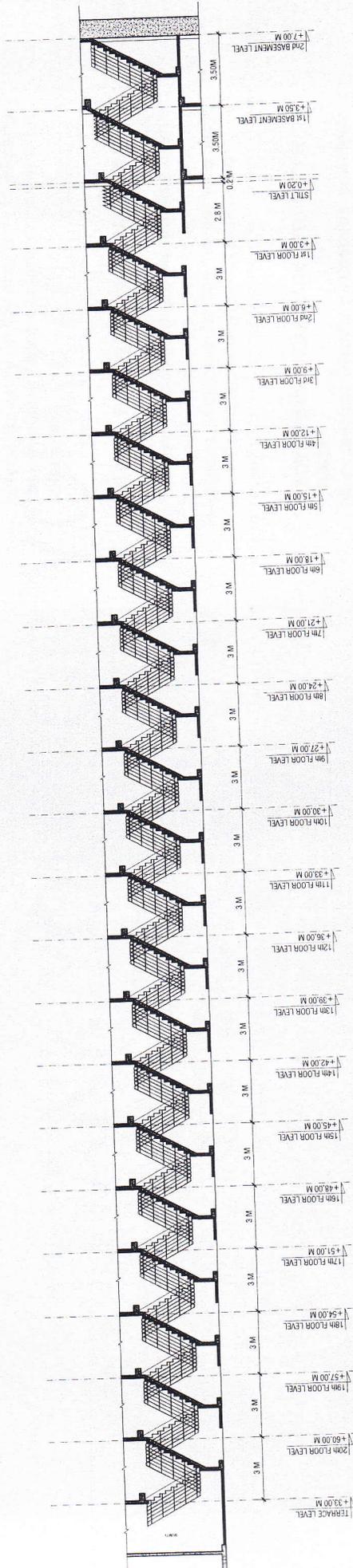
DRG NO. : KH/13/KH02
DATE : 10 OCT 2013
SCALE : N.T.S.
DRAWN BY :
CHECKED BY : GAJENDRA PRATAP SINGH

Project :
KATARAHILLS
Title :
ELEVATIONS (TOWER-A, B & C)
TOWN AND COUNTRY PLANNING (SUBMISSION DRAWING)

Developer :
**MADHYA PRADESH HOUSING AND
INFRASTRUCTURE DEVELOPMENT BOARD.
CIRCLE-3, DIVISION-3.**

STUDIO PRATAP & PARTNERS
Architects + Urban Design
B-4 / 3/08, VASANT KUNJ,
NEW DELHI - 110019
PH: 011 4609242

CROSS SECTIONS



Project - KATARA HILLS	DRG. NO. - KHH/13/KH26	NORTH
	DATE - 10 OCT 2013	
Title - TYPICAL SECTION (SECTION-02) TOWN AND COUNTRY PLANNING (SUBMISSION DRAWING)	SCALE - N.T.S.	
	DRAWN BY -	CHECKED BY - GAJENDRA PRATAP SINGH
Developer - MADHYA PRADESH HOUSING AND INFRASTRUCTURE DEVELOPMENT BOARD, CIRCLE-3, DIVISION-3.		
STUDIO PRATAP & PARTNERS Architects + Urban Design B-4/3/28, VASANT KUNJ, NEW DELHI - 110070 PH-011-4603242		

THE ROUNDABOUT

The roundabout improves safety for drivers and pedestrians. The park in the roundabout provides a community gathering space and play area for complete development.

WATER HARVESTING CHANNEL

The landscape is designed to complement the natural contours on the site, thus facilitating easy implementation of rainwater harvesting solutions.

GREEN ENCLOSURES AND SHADED STREETS

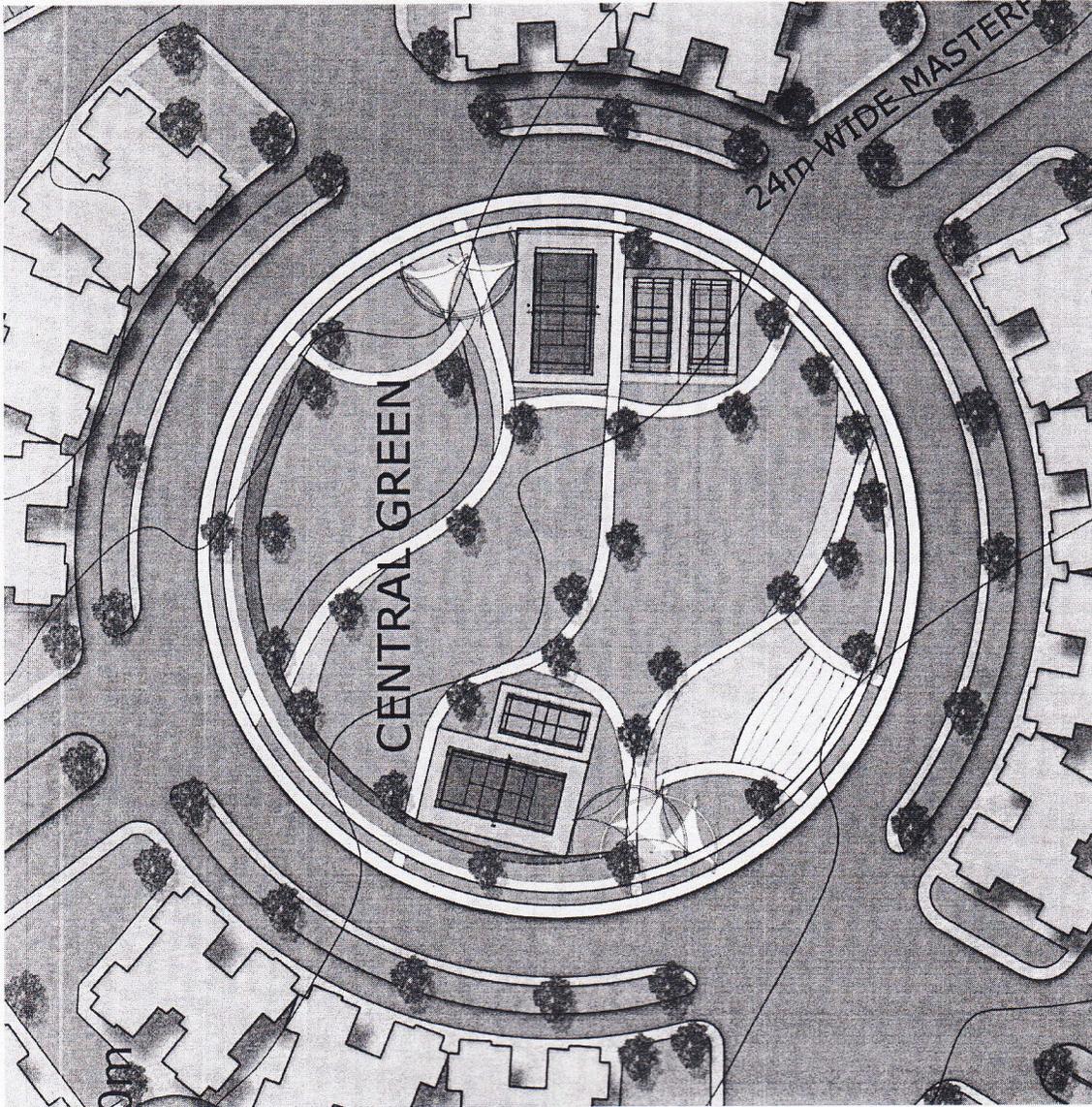
The trees located on the peripheries of the designed landscape not only create an organic enclosure for the lawns, they also provide shade to the adjacent street/road.

PEDESTRIAN PROMENADE WITH CYCLE TRACK

A pedestrian friendly promenade and cycle track is proposed along the green lawns which will connect the whole site.

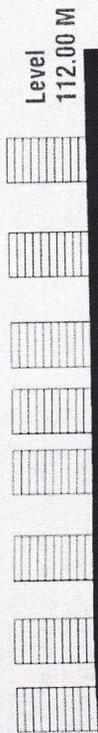
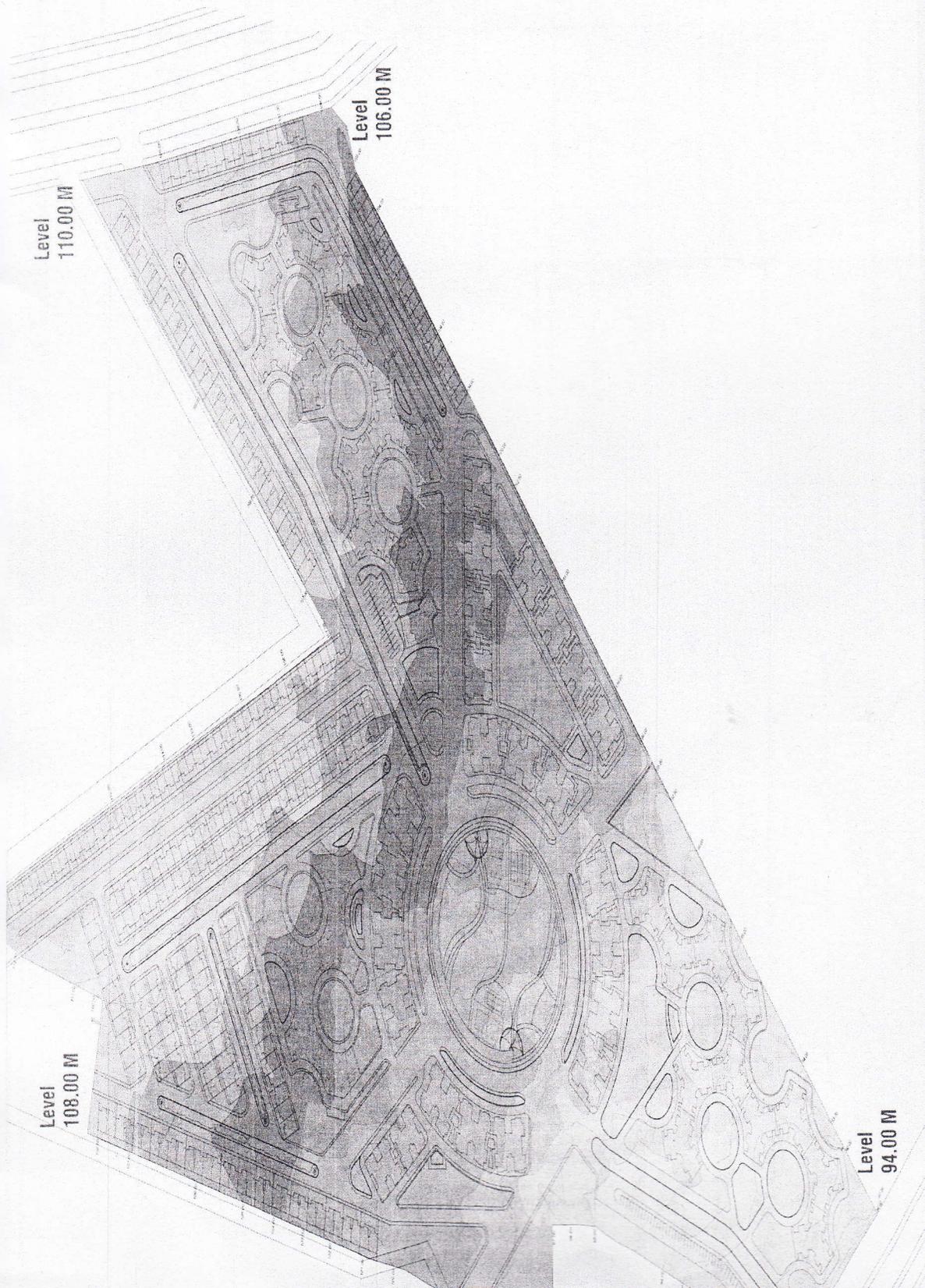
FOUNTAIN AND CHILDREN'S PLAY AREA

Rainwater collected as through the water harvesting scheme, as well as recycled waste water, will be used for operating the fountains located around the children's play area



SITE LEVELS

SP:IP



Section