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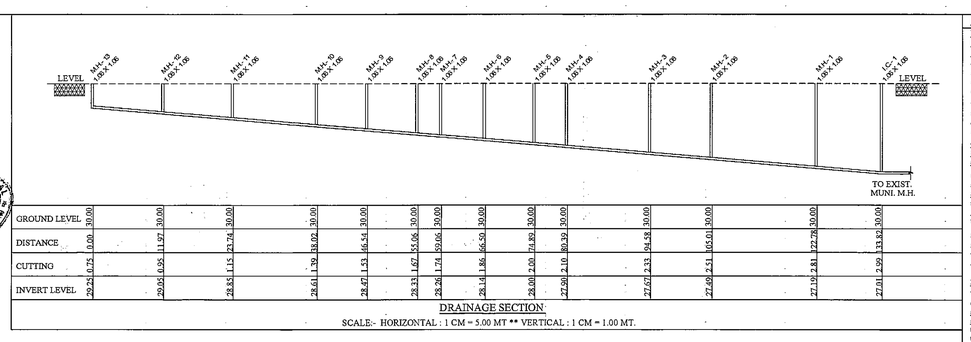


DRAINAGE SECTION

SCALE:- HORIZONTAL : 1 CM = 5.00 MT ** VERTICAL : 1 CM = 1.00 MT.

NOTES RELATED TO FIRE SAFETY

The Basic Requirements For Fire Protection Of High-Rise Building In A.M.C. and A.U.D.A. Area

1. HYDRANT SYSTEM:

ON/OFF switches located near the hose reel hose or hydrant outlet, at each floor the main Fire Pump at the underground water tank with a capacity to discharge the 900 liters per minute at 3 bar pressure as measured at the terrace level should be installed.

The Riser for the buildings exceeding 18 meters height should not be of less than 100 mm. internal diameter. The riser should be connected to the bottom of the terrace tank with a stop value and a NRV to act as a Down - comer.

One riser is required for every 1000sq. meters floor area and if the building is divided into two or more parts then each part should have a separate riser with all the fittings at each floor level.

Each floor should have one hydrant outlet with a coupling for attaching a 63 mm dia. hose, & 25 mm bore Hose-reel hose with 8 mm. SS. Shut-off nozzle at each floor landing. The length of the hose reel hose should be enough to reach the farthest corner of the floor. Hose-bay with 16 meters long 63mm. dia. hose and 12.5 mm. bore nozzle at alternate floors. The Hose-reel hose should be coupled to the Riser.

Fire - service inlet should be installed at a point near the entry to the premises where a Fire service vehicle can approach easily.

The Overhead tank shall be of a capacity of not less than 20,000 liters.

The Underground tank shall be of a capacity of not less than 1,00,000 liters.

2. FIRE LIFT :

The Fire-Lift and all the lifts should have a provision to ground automatically in case of electricity failure. Each building should have at least one lift as a Fire-Lift and if the building is divided into two or more parts then each Part should have a Fire-Lift. Lift well should have blowers to pressurize the lift-well so connected that it will automatically operate when alarm call point is operate, so that it prevents the lift well getting smoke logged.

3. FIRE ALARM:

Fire alarm call point to be installed at each floor with sounders capable of being heard all throughout the building.

4. FIRE EXTINGUISHERS

One Carbon Dioxide (CO2) type extinguisher of 4.5 kg. with ISI mark. and one extinguisher of 5kg. Dry Chemical Powder (DCP) ISI mark to be installed on floor in case of commercial building.

Two Carbon Dioxide (Co2) type extinguisher of 2 kg. with ISI mark capacity on each floor and 5kg. Dry Chemical Powder (DCP) type extinguisher with ISI mark on alternate floors in case of residential buildings.

If the building is divided into two or more parts then each part should have these extinguishers installed.

5. STAIRCASE :

The staircase has to be open from at least one or two sides but if the staircase is in the center core of the buildings it has to be pressurized to prevent it from getting smoke logged.

The Riser/Down-comer should be located in the staircase or close to in to make it easly approachable in case of Fire from the floor bellow or above.

6. LIGHTENING ARRESTER :

A lightening arrester should also be installed and be properly berthed to prevent damage to the building when the lightening strikes.

7. ELECTRIC POWER SUPPLY FOR HYDRANT LINE.

Entire electric supply for hydrant line will be provided separately by separate electric supply from co. supply

8. BASEMENT :

The basement of 200 sq. meters or more should be protected with Automatic Sprinkler system with at least one sprinkler head for actual Car parking space. Additionally be protected by a Hydrant outlet and two 25 mm. bore Hose-reel hoses with 8 mm. bore nozzles at each basement level.

BUILT UP AREA STATEMENT (IN SQ.MT.)

BLOCK	D	A	B	C	TOTAL
BASEMENT FL.	1558.60	--	--	--	1558.60
GROUND (H. P.)	59.80	542.35	307.72	467.00	1376.87
GROUND (S. P.)	665.55	--	--	--	665.55
1ST FLOOR	725.35	542.35	307.72	467.00	2042.42
2ND FLOOR	725.35	542.35	307.72	467.00	2042.42
3RD FLOOR	725.35	542.35	307.72	467.00	2042.42
4TH FLOOR	725.35	542.35	307.72	467.00	2042.42
5TH FLOOR	--	542.35	307.72	467.00	1317.07
6TH FLOOR	--	542.35	307.72	467.00	1317.07
7TH FLOOR	--	542.35	307.72	467.00	1317.07
STAIR CABIN	35.80	31.44	39.96	55.11	162.31
LIFT MAC. ROOM	27.22	23.83	27.79	26.23	105.07
TOTAL	5248.37	4394.07	2529.51	3817.34	15989.29

F.S.I. AREA STATEMENT / FLOOR AREA STATEMENT (IN SQ.MT.)

BLOCK	D	A	B	C	TOTAL
GROUND (S. P.)	665.55	--	--	--	665.55
1ST FLOOR	693.52	509.70	261.96	431.09	1896.27
2ND FLOOR	693.52	509.70	261.96	431.09	1896.27
3RD FLOOR	693.52	509.70	261.96	431.09	1896.27
4TH FLOOR	693.52	509.70	261.96	431.09	1896.27
5TH FLOOR	--	509.70	261.96	431.09	1202.75
6TH FLOOR	--	509.70	261.96	431.09	1202.75
7TH FLOOR	--	509.70	261.96	431.09	1202.75
TOTAL	3439.63	3567.90	1833.72	3017.63	11858.88

TENAMENT STATEMENT

FLOOR	USE	EQUITY TENA.					
BLOCK		D	A	B	C	TOTAL	
BASEMENT FL.	PARK.	--	--	--	--	COM.	RESI.
GROUND (H. P.)	PARK.	--	--	--	--	--	--
GROUND (S. P.)	SHOP (D)	17	--	--	--	17	--
1ST FLOOR	SHOP/RESI (D) (A,B,C)	16	08	04	10	16	22
2ND FLOOR	SHOP/RESI (D) (A,B,C)	16	08	04	10	16	22
3RD FLOOR	SHOP/RESI (D) (A,B,C)	10	08	04	10	10	22
4TH FLOOR	SHOP/RESI (D) (A,B,C)	08	08	04	10	08	22
5TH FLOOR	RESI (A,B,C)	--	08	04	10	--	22
6TH FLOOR	RESI (A,B,C)	--	08	04	10	--	22
7TH FLOOR	RESI (A,B,C)	--	08	04	10	--	22
TOTAL	SHOP/RESI	67	56	28	70	67	154

LAYOUT PLAN: BLOCK-A SHEET NO:- 5/11

PLAN SHOWING PROP. RESI.+COMM. OF F.P. NO. 65/1, R.SUR. NO. 88/A/1, O.P. NO: 65/1 OF PRILIMINARY T.P.S. NO.:- 109 (HANSPURA-MUTHIYA-BILASIYA), AT : HANSPURA , TA : ASARVA , DIST:AHMEDABAD

ZONE : RESIDENTIAL - 1 OVERLAY ZONE RAH (S.P.RING ROAD)

USE : RESIDENCE + COMM. SCALE:- 1C.M. = 2 MT.

AREA TABLE	SQ.MTS.
PLOT AREA	8164.00
REQ.COMMON PLOT @ 10%	816.40
PROV.COMMON PLOT AREA	836.90
AREA TABLE	SQ.MTS.
PLOT AREA	8164.00
PERMI. F.S.I.- (1.80 X 8164.00) [BASE F.S.I.+ R1]	14695.20
CHARGEABLE F.S.I. (0.90 X 8164.00) [AS PER R1]	7347.60
MAX. PERMI. F.S.I. (14695.20+7347.60)	22042.80
TOTAL UTILIZED F.S.I.	11858.88
BALANCE F.S.I.	2836.32

COLOUR NOTES:-

F. P. BOUNDARY		ROAD	
PROP. WORK		P. WELL	
PROP. DRAIN-LINE		COM.BIN.	
COMMON PLOT		TREE	

OWNER:

KIRAN N. PATEL
411, Platinam Plaza, Nikol, A'bad.
AMC LIC No. ER0748280420R1
AMC LIC No. CW05201000420R1
AMC LIC No. SD0455260120

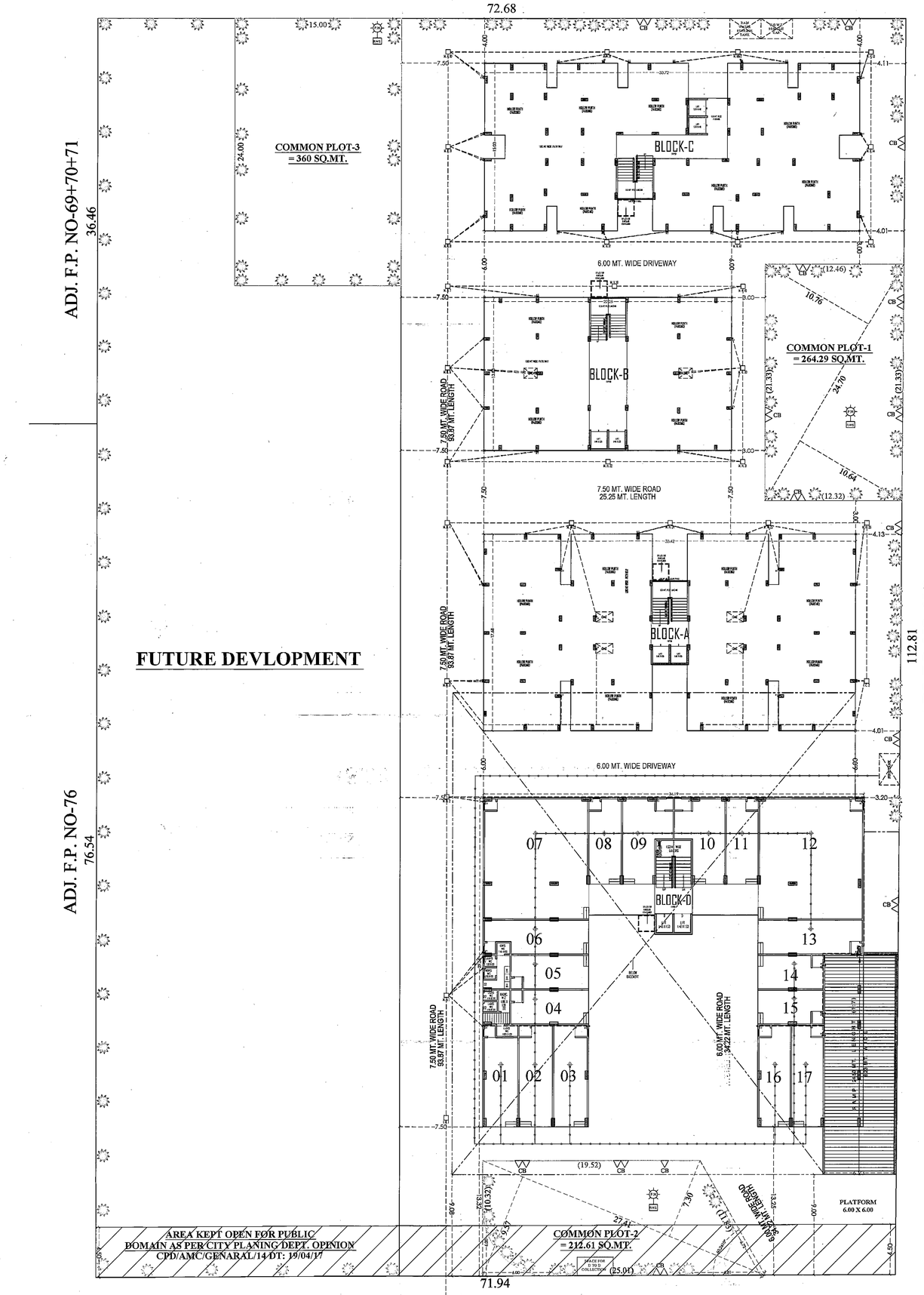
ENGINEER/C.O.W.:-

SHREE RANG DEVELOPER
AMC DEV LIC No.292160420
29, TULSI SOCIETY, C.T.M., AHD.

DEVLOPER:-

N. P PARMAR
B. E. (Civil)
AMC/Lic No SD-0300160921 R2
10, Pathik Society,
Naranpura, Ahmedabad-13

STR. ENGINEER:



LAY - OUT PLAN

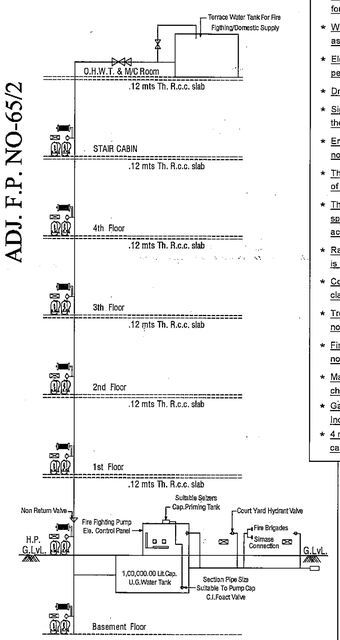
SCALE :- 1.00 CM. = 2.00 MT.

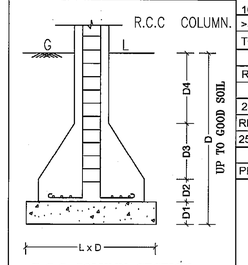
COMMON PLOT AREA CALCULATION:-

NET PLOT AREA = 8164.00 SQ.MTS
REQ. COMMON PLOT @ 10% 816.40 SQ.MT.
COMMON PLOT = 1
(1) (10.76+10.64)/2 X 24.70 = 264.29 SQ.MT.
COMMON PLOT = 2
(1) (9.57+7.30)/2 X 27.41 = 231.20 SQ.MT.
LESS:-ROAD CURVATURE AS PER PL=7.74
LESS:-ROAD CURVATURE(10.85)
TOTAL = 18.59 SQ. MT.
NET COMMON PLOT-2 AREA = 212.61 SQ. MT.
COMMON PLOT = 3
(1) 15.00 X 24.00 X 1 = 360.00 SQ.MT.
NET PROV. COMMON PLOT = 836.90 SQ.MT.

GENERAL NOTES :-

* Engineer is fully responsible for leaving open space and margin.
* The depth and position of existing municipal manhole is verryfied by me on site and premises can gets drainage connection.
* It is certify that according to G.D.C.R-2021 all all requirements of the building are checked and necessary actions are taken .
* It is certify that according to the clause no. 4.5.3 of the G.D.C.R-2021, the structure of the building is design as per the norms of the indian standards
* Design of staircase and railing is provided as per the provision of the clause no. 23.1.12 and 23.14 and 24.6 of G.D.C.R-2021
* Pedesttrians ramp is provided as per the provision of the clause no. 23.1.5 of G.D.C.R-2021
* Lift is provided as per the provision of the clause no. 23.12 and 24.7 of G.D.C.R-2021
* Water tank is provided as per the provision of the clause no. 23.6 of G.D.C.R-2021
* Separate letter box is provided at ground level for each unit.
* Water tank for fire safety requirement provided as per chepter no. 24 of G.D.C.R-2021
* Electrical infrastructure shall be provided as per clause no. 23.11
* Drainage facility is provided as per the clause no. 23.10
* Signages of the parking place is to be provided as per the clause no. 23.7 of the G.D.C.R-2021
* Entrance of the building is provided as per the clause no. 23.1.7 of G.D.C.R-2021
* The paving of building unit/final plot as per the provision of the clause no. 23.1.4 of G.D.C.R-2021
* The structue of the building is as per the norms of the specified in the indian standard and take nacessary action for the structral safety during the construction.
* Rain water storage tank and rain water harvesting system is provided as per the clause no. 27.2 of G.D.C.R-2021
* Community bin provided as per the provision of the clause no. 27.3 of G.D.C.R-2021
* Tree plantation is provided as per the clause no. 27.5 of G.D.C.R-2021
* Fire safety system is provided as per chapeter no. 24 of G.D.C.R-2021
* Maintanance and upgradation of building is as per chapeter no. 29 of G.D.C.R-2021
* Garbage shaft shall be provided as per Indian standard specification
* 4 meters wide motorable road with 40 ton load bearing capacity is required G.D.C.R-2021.





R.C.C COLUMN SECTION
AS PER DETAIL GIVEN BY STR. ENGINEER

DUST-BIN PROVIDED NOTES:-(RESI.)

8 NOS. OF COMMUNITY BIN EACH OF 80 LITRES CAPA. SHALL BE PROVIDED IN MARGINAL OPEN SPACE.
PROVIDED = 8 UNITS / 1BIN / 80 LITRES CAPACITY.
REQUIRED = 154 UNITS / 8UNITS / 1 = 19.25 NOS. REQD.
PROVIDED CONTAINER = 20 NOS.

DUST-BIN PROVIDED NOTES:- (COMM.)

TOTAL FLOOR AREA FOR SHOPS = 3439.63 SQ.MT.
SHALL BE PROVIDED IN MARGINAL OPEN SPACE.
CONTAINER REQD. = 3439.63 X 20 / 100.X 80 = 8.60 NO.
SAY 8 NO. OF CONTAINER OF CAPACITY 80.0 LITRE
MAX. CAP. OF CONTAINER = 80.0 LIT.
PROVIDED CONTAINER = 9 NO.
TOTAL C.BIN PROVIDED = 20 NO.FOR.RESI.
+ 9 NO. FOR COMM.
= 29 NO.OF 80 LIT.CAPACITY

TREE PLANTETION

PLOT AREA :- 8164.00 SQ. MTS.
200 SQ. MTS. / 3 TREE
8164.00 SQ. MTS./ 122.46 TREE SAY 123 NO.TREES
PROVI. 123 NO. TREES

REQ. PERCOLATING WELL

PLOT AREA :- 1500 TO 4000 SQ. MTS.
1 PERCOLATING WELL
PLOT AREA = 8164.00 / 4000.00 SQ. MTS.
= 2.04 NO. REQ. SAY 3 NOS.
PROVI. 3 NO.PERCO. WELL

AREA CALCULATION OF ARC

AREA = 3.14 X R^2/4
= 3.14 X 6.00 X 6.00 / 4
= 3.14 X 36.00/4
= 28.26 SQ. MT.
TOTAL AREA = 6.00 X 6.00
= 36.00 SQ. MT.
NET AREA IN ARC = TOTAL A. - AREA
= 36.00 - 28.26
= 7.74 SQ. MT.

SANITARY PROVITION

FLOOR AREA (TOTAL) :- 3439.63 SQ. MT.
4 SQ. MTS. = 1 PERSON
3439.63 SQ.MT.= 859.91 PERSON SAY 860 PERSON
(430 GENTS & 430 LADI.)

SANATARY TABLE

FOR GENTS

	URINAL	W.C.
UP TO 100	04	04
100 TO 500	07	07
TOTALREQ.	11	11

FOR LADIES

	W.C.
UP TO 100	04
100 TO 500	07
>500	---
TOTALREQ.	11

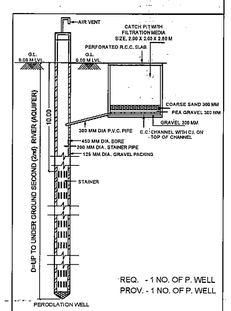
REQ.COMMON TOILET = 25 % OF REQUIRED W.C

FOR LADIES	FOR GENTS
25% OF 11=2.75 SAY 3	25% OF 11=2.75 SAY 3

REQ.COMMON URINAL = 25 % OF REQUIRED URINAL

25 % OF 11 = 3 URINAL	PROVIDED 3 URINAL

PROVIDED W.C.IN EACH UNITS,
PROVIDED 3 W.C.FOR LADIES & 3 W.C FOR GENTS



REQ. - 1 NO. OF P. WELL
PROV. - 1 NO. OF P. WELL

FOR BUILDING UNIT 1500.00 S. M OR MORE AND UP TO 4000.00 S. M. & PARI THERE OF F.
NOTE :- STRUCTURE DESIGN AS PER STRUCTURAL ENGINEER.
(THIS IS ONLY SKETCH PLAN)

KEY - PLAN
SCALE :- 1.00 CM. = 20.00 MT.

FIRE HYDRANT LEGEND

SR.	SYMBOL	DISCRIPTION
1		FIRE HYDRANT SYSTEM PIPE MAIN
2	SH	SINGLE HANDED HYDRANT VALVE
3		SLUICE VALVE
4		NON RETURN VALVE
5		LANDING HYDRANT VALVE
6		FIRE HOSE BOX
7		FIRST AID HOSE REEL
8		DC.P & CO-2
9		TWO WAY SIAMESE CONNECTION
10	R D	RISE OR DROP
11		REDUCER
12		COURT YARD HYDRANT VALVE
13		SPRINKLERED

B.P.&S.P. (T.D.O.) RESPONSIBILITY (G.D.C.R.-2021 4.3.4.4 & 4.5) :- APPROVAL OF DRAWINGS AND ACCEPTANCE OF ANY STATEMENT, DOCUMENTS, STRUCTURAL REPORT, STRUCTURAL DRAWINGS, PROGRESS CERTIFICATE OR BUILDING COMPLETION CERTIFICATES SHALL NOT DISCHARGE THE OWNER, ENGINEER, ARCHITECT, CLERK OF WORKS/SITE SUPERVISOR, STRUCTURAL DESIGNER, DEVELOPER, OWNER FROM THEIR RESPONSIBILITIES, IMPOSED UNDER THE ACT, THE DEVELOPMENT CONTROL REGULATIONS AND THE LAWS OF TORT AND LOCAL ACTS. LIABILITY (G.D.C.R.-2021.3.3.11) :- NOTWITHSTANDING ANY DEVELOPMENT PERMISSION GRANTED UNDER THE ACT AND THESE REGULATIONS, ANY PERSON UNDERTAKING ANY DEVELOPMENT WORK SHALL CONTINUE TO BE WHOLLY AND SOLELY LIABLE FOR ANY INJURY OR DAMAGE OR LOSS WHATSOEVER THAT MAY BE CAUSED TO ANY ONE IN OR AROUND THE AREA DURING SUCH CONSTRUCTION AND NO LIABILITY WHATSOEVER IN THIS REGARD SHALL ARISE/ST ON THE AUTHORITY.

Ahmedabad Municipal Corporation
Case No : BLNTS/NZ/090517/GDR/A8502/R0/M1
Zone: NORTH
Plan Approved as per terms and condition mentioned in the Commencement Certificate
Raja Chitthi Number : 8764/090517/A8502/R0/M1
Date : 05/07/2019

Asst. Inspector (Civic Center) | Asst. T.D.O./Asst. E.O. (Civic Center) | MAYANK SHAH By T.D.O. NORTH | N. J. Malaviya By MC NORTH

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TDO, BPSP , AMC

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