NOTES RELATED TO FIRE SAFETY.

(1) HYDRANT SYSTEM :

ON/OFF SWITCHES LOCATED NEAR THE HOSE REEL HOSE OR HYDRANT OUTLET, AT EACH FLOOR FOR THE MAIN FIRE-PUMP AT UNDERGROUND WATER TANK WITH A CAPACITY TO DISCHARGE 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 VALVE AND A NRV TO ACT A DOWN-COMER. ONE RISER IS REQUIRED FOR EVERY 1000 SQ. 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. SHUT- OFF NOZZLE AT EACH FLOOR LANDING. THE LENGTH OF THE HOSE SHOULD BE ENOUGH TO REACH THE FARTHEST CORNER OR THE FLOOR. HOSE-BOX WITH 15 METERS LONG 63 MM. 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 PERMISES WHERE A FIRE SERVICE VEHICLE CAN APPROACH EASILY.

A PERMANENT HYDRANT POINT COMPRISING OF 63 MM DIA SIZE 2 NOS OF HYDRANT VALVES SHOULD BE INSTALLED AT THE TERRACE LEVEL.

OVERHEAD TANK REFILLING BYPASS CONNECTION SHOULD BE DONE AT THE TERRACE LEVEL.

THE OVERHEAD TANK SHALL BE OF A CAPACITY OF NOT LESS THAN 20,000 LITERS. THE UNDERGROUND TANK SHALL BE OF NOT LESS THAN 1,00,000 LITERS.

(2) FIRE LIFT :

THE FIRE-LIFT AND ALL LIFTS SHOULD HAVE A PROVISION TO GROUND TO 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 A 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 IF 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 (CO_2) TYPE EXTINGUISHER OF 4.5 KG. WITH ISI MARK. AND ONE EXTINGUISHER OF 5 KG. DRY CHEMICAL POWDER (DCP) TYPE EXTINGUISHER WITH ISI MARK TO INSTALLED ON EACH FLOOR IN CASE OF COMMERCIAL BUILDING .

ONE CARBON DIOXIDE (CO_2) TYPE EXTINGUISHER OF 4.5 KG. WITH ISI MARK. OR TWO CARBON DIOXIDE (CO_2) TYPE EXTINGUISHER OF 2 KG. CAPACITY ON EACH FLOOR AND 5 KG. DRY CHEMICAL POWDER (DCP) WITH ISI MARK TYPE EXTINGUISHER ON ALTERNATE FLOOR 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 CENTRE CORE OF THE BUILDING 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 EASILY APPROACHABLE IN CASE OF FIRE FROM THE FLOOR BELOW OR ABOVE.

(6) BASEMENT :

THE BASEMENT OF 200 SQ. METERS OR MORE SHOULD BE PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM WITH AT LEAST ONE SPRINKLE HEAD FOR ACTUAL CAR PARKING SPACE .

ADDITIONALLY BE PROTECTED BY A HYDRANT OUTLET AND TWO 25 MM.BORE HOSE- REEL HOSES WITH 8MM . BORE NOZZLES AT EACH BASEMENT LEVEL.

(7) LIGHTENING ARRESTER :

A LIGHTENING ARRESTER SHOULD ALSO BE INSTALLED AND BE PROPERLY EARTHED TO PREVENT DAMAGE TO THE BUILDING WHEN THE LIGHTENING STRIKES.

(8) PHOTO LUMINESCENT / AUTO GLOW / SIGNAGE'S:

IF THE BUILDING FALLS IN A CONFINED AREA OR IF IT HAS AN ENCLOSED STAIRCASE OR IS NOT WELL LIT-UP ON THE INSIDE, THEN ADEQUATE PHOTO LUMINESCENT / AUTO GLOW) SIGNAGE'S SHOULD BE DISPLAYED AT EACH FLOOR / LANDING / PATHWY / DEAD-END AND ALONG ALL EXIT ROUTES LANDING TO THE GROUND LEVEL. THE SIGNAGE SHOULD INDICATE FIRE FIGHTING, FIRE SAFETY, FIRST-AID AND OTHER SAFETY EQUIPEMENT PRESENT ON THE RESPECTIVE FLOOR / LANDING / PATHWAY / DEAD - END AND ALONG ALL EXIT ROUTES LEADING TO THE GROUND LEVEL.

(9) ELECTRIC POWER SUPPLY TO THE ENTIRE FIRE - SAFETY SYSTEM

ELECTRICITY SUPPLY TO THE FIRE PUMP, FIRE ALARM SYSTEM, STAIRCASE PRESSURIZATION SYSTEM AND FIRE LIFT SHOULD BE MADE AVAILABLE FROM THE MAIN ELECTRICAL SUPPLY. (I.E. FROM ELECTRICAL POWER SUPPLY OF THE COMPANY) THIS IS TO ENSURE AVAILABILITY OF POWER SUPPLY TO THE FIRE PROTECTION & SAFETY SYSTEM EVEN AFTER THE MAIN ELECTRICAL SUPPLY TO THE BUILDING IS SWITCHED OFF THE TIME OF FIRE.

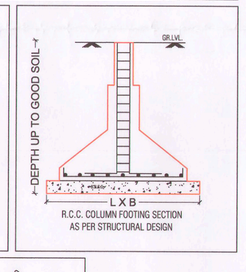
(10) IMPORTANT INSTRUCTIONS :

AFTER INSPECTION OF A LOW-RISE BUILDING BY THE FIRE SERVICES AUTHORITY , IF THE FIRE OFFICER CONCERNED FEELS THE NEED FOR ADDITIONAL FIRE PREVENTION / PROTECTION / VENTILATION SYSTEM REQUIRED OR EQUIPEMENT (I.E. PASSIVE SYSTEM / SPRINKLER / DRENCHER ETC.) AS PER FIRE LOAD / FIRE RISK / PUBLIC GETHERING. POTENTIAL / OCCUPANCY / CONFINED AREA, THOSE ADDITIONAL MEASURES / EQUIPEMENT HAVE TO BE IMPLEMENTED / INSTALLED.

FIRE SAFETY PROVISION SHALL BE PROVIDED AS PER AMC-FIRE & EMERGENCY SERVICES DEPT.- OPINION NO: .....DTD.

(11) LENGED

1 FIRE HYDRANT SYSTEM PIPE MAIN
2 SINGEL HEADED HYDRANT VALVE
3 SLUICE VALVE
4 TWOWAY SIAMESE CONNECTION
5 RISE OR DROP
6 NON RETURN VALVE
7 REDUCER
8 FIRE HOUSE BOX
9 HOSE REEL HOSE
10 D.C.P. &CO.2
11 HYDRANT VALVE



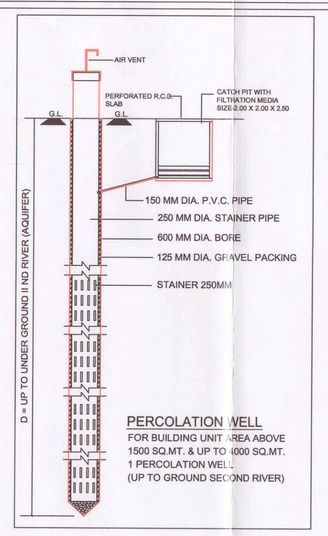
R.C.C. COLUMN FOOTING SECTION AS PER STRUCTURAL DESIGN

CUTTING LEVEL	0.75	1.15	1.50	1.95	2.45	2.90	3.20
INVERT LEVEL	29.25	28.85	28.50	28.05	27.55	27.20	26.80
GROUND LEVEL	30.00	30.00	30.00	30.00	30.00	30.00	30.00
DISTANCE	0.00	24.00	45.00	72.00	102.00	123.00	147.00

DRAINAGE SECTION

GENERAL NOTES

- ENGINEER IS FULLY RESPONSIBLE FOR LEAVING OPEN SPACE AND MARGIN.
- THE DEPTH AND POSITION OF EXISTING MUNICIPAL MANHOLE IS VERIFIED BY ME ON SITE AND PREMISES CAN GATES DRAINAGE CONNECTION.
- IT IS CERTIFY THAT ACCORDING TO CGDCR 2017 ALL REQUIREMENTS OF THE BUILDING ARE CHECKED AND NECESSARY ACTIONS ARE TAKEN.
- IT IS CERTIFY THAT ACCORDING TO THE CLAUSE NO: 3.5.3 OF THE CGDCR 2017, THE STRUCTURE OF THE BUILDING IS DESIGN AS PER THE NORMES OF THE INDIAN STANDARDS.
- DESIGN OF STAIRCASE AND RAILING IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO: 21.1.12 AND 21.1.14 AND 22.6 OF CGDCR 2017.
- PEDESTRIANS RAMP IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO: 21.1.15 OF CGDCR 2017.
- LIFT IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO: 21.12 AND 22.8 OF CGDCR 2017.
- WATER TANK IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO: 21.6 OF CGDCR 2017.
- SEPARATE LETTER BOX IS PROVIDED AT GROUND LEVEL FOR EACH UNIT.
- WATER TANK FOR FIRE SAFETY REQUIREMENT PROVIDED AS PER THE CHAPTER NO: 22.21 OF CGDCR 2017.
- ELECTRICAL INFRASTRUCTURE SHALL BE PROVIDED AS PER CLAUSE NO: 21.11 OF CGDCR 2017.
- DRINKING WATER FACILITY FOR DISABLED PERSONS IS PROVIDED AS PER THE CLAUSE NO: 21.6.2 OF CGDCR 2017.
- DRAINAGE FACILITY IS PROVIDED AS PER CLAUSE NO: 21.10 OF CGDCR 2017.
- SIGNAGES OF THE PARKING PLACE IS TO BE PROVIDED AS PER CLAUSE NO: 21.7 OF THE CGDCR 2017.
- ENTRANCE OF THE BUILDING IS PROVIDED AS PER THE CLAUSE NO: 21.1.7 OF CGDCR 2017.
- THE PAVING OF THE BUILDING UNIT/FINAL PLOT AS PER THE PROVISION OF THE CLAUSE NO: 21.1.4 OF CGDCR 2017.
- THE STRUCTURE OF THE BUILDING IS DESIGNED AS PER THE NORMS SPECIFIED IN THE INDIAN STANDARD AND TAKE NECESSARY ACTION SHALL BE TAKEN FOR THE STRUCTURAL SAFETY DURING THE CONSTRUCTION.
- RAIN WATER STORAGE TANK AND RAIN WATER HARVESTING SYSTEM IS PROVIDED AS PER THE CLAUSE NO: 25.2 OF CGDCR 2017.
- COMMUNITY BIN PROVIDED AS PER THE PROVISION OF THE CLAUSE NO: 25.3 OF CGDCR 2017.
- GREY WATER RECYCLING SYSTEM & DUAL PLUMBING SYSTEM IS PROVIDED AS PER THE CLAUSE NO: 25.4 OF CGDCR 2017.
- TREE PLANTATION IS PROVIDED AS PER THE CLAUSE NO: 25.5 OF CGDCR 2017.
- SOLAR WATER HEATING SYSTEM IS PROVIDED AS PER THE CLAUSE NO. 25.6 OF THE CGDCR 2017.
- POLLUTION CONTROL SYSTEM IS PROVIDED AS PER THE CHAPTER NO. 28 OF CGDCR 2017.
- FIRE SAFETY SYSTEM IS PROVIDED AS PER THE CHAPTER NO: 22 OF CGDCR 2017.
- MAINTENANCE AND UPGRADATION OF BUILDING IS AS PER THE CHAPTER NO: 27 OF CGDCR 2017.
- MARGINAL SPACE & CELLAR SLAB SHALL HAVE LOAD BEARING CAPACITY OF 40/60 TONNES PER SQUARE METER SHALL BE PROVIDED AS PER CHAPTER NO. 22.3 OF CGDCR 2017.
- ROOF TOP SOLAR ENERGY INSTALLATION & GENERATION SHALL BE PROVIDED AS PER CLAUSE CLAUSE NO. 25.6.1 OF CGDCR 2017.
- THE GLAZED SURFACE AREA OF THE EXTERNAL FACADE SHALL BE NON REFLACTIVE AND PROVIDED UP TO MAX. OF 50% OF THE TOTAL SURFACE AREA OF EACH FACADE WITH THE PROVISION OF SAFETY RAILING UP TO SILL LEVEL AS PER CGDCR CL. NO. 21.13.
- ALL BASEMENTS HAVE POSITIVE PRESSURE VENTILATION.



PARKING AREA TABLE (RESIDENTIAL) IN SQ.MT.		
RESIDENTIAL FSI AREA USED	=	21732.61
PARKING REQD. @ 20%	=	4346.52

PARKING AREA TABLE

	REQUIRED	PROVIDED					
		GR. LEVEL	1ST BASE.	2ND BASE.	3RD BASE.	4TH BASE.	
VISITOR PARK. @ 10%	434.65	658.04	-	-	-	-	658.04
CAR PARK. @ 50%	2173.26	-	1758.17	1758.17	1758.17	1758.17	7032.68
OTHER'S PARK. @ 40%	1738.61	-	790.92	790.92	790.92	970.65	3343.41
TOTAL PARK.	4346.52	658.04	2549.09	2549.09	2549.09	2728.82	11034.13

PARKING AREA CALCULATION

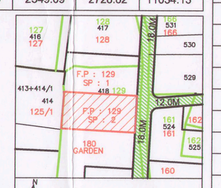
GR. LEVEL (RESIDENTIAL)

VISITOR'S PARK.

(1)	8.68X34.60	=	300.33
(2)	10.28X3.57	=	36.70
(3)	18.96X3.57	=	67.69
(4)	10.28X2.05	=	21.07
(5)	24.51X2.05	=	50.25
(6)	5.26X34.60	=	182.00
		=	658.04 SQ.MT.

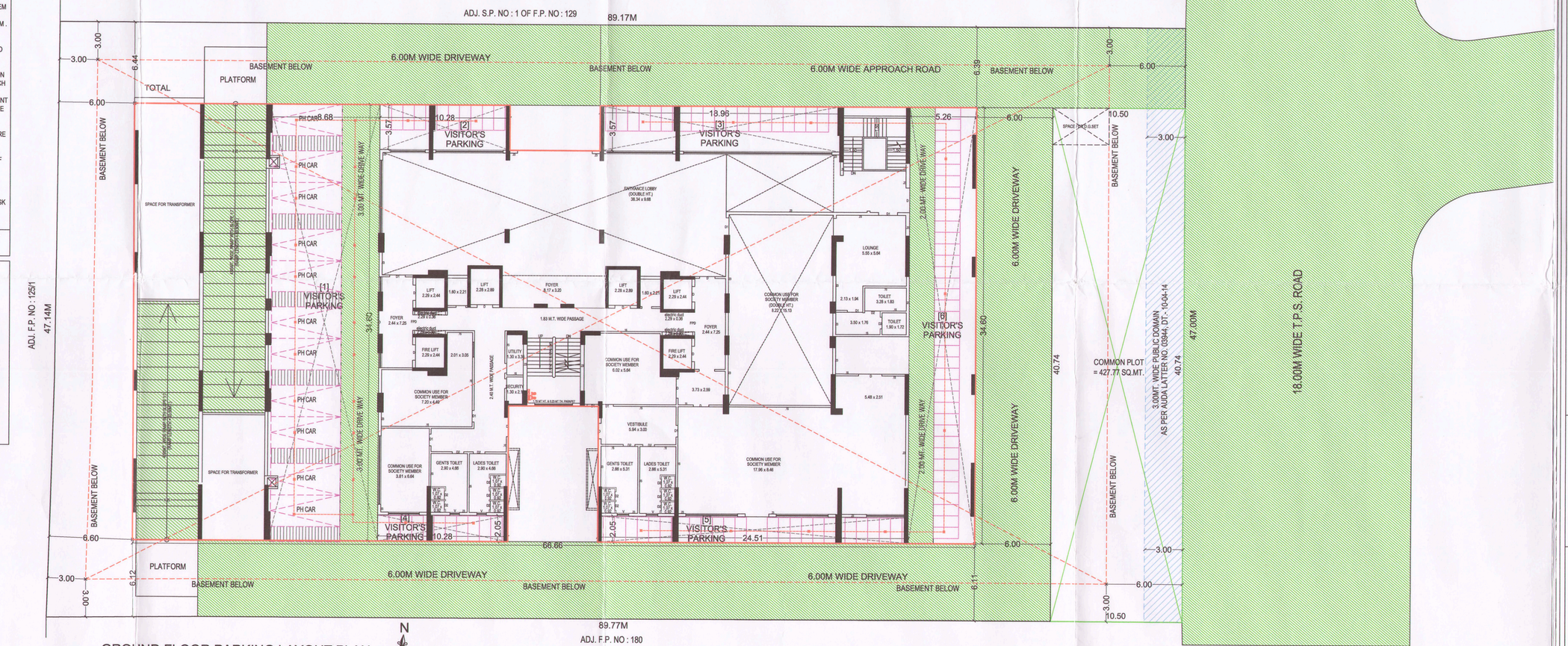
LIFT CALCULATION FOR RESI. :-

BLOCK	TOTAL UNIT (3RD TO ABOVE)	REQ. 6 PERSON CAP/ACITY 1 LIFT PER 20 UNIT	PROVIDE LIFT
BLOCK-A	40	2 NOS. OF LIFT	6 NOS. OF LIFT (6 PERSON CAP.)

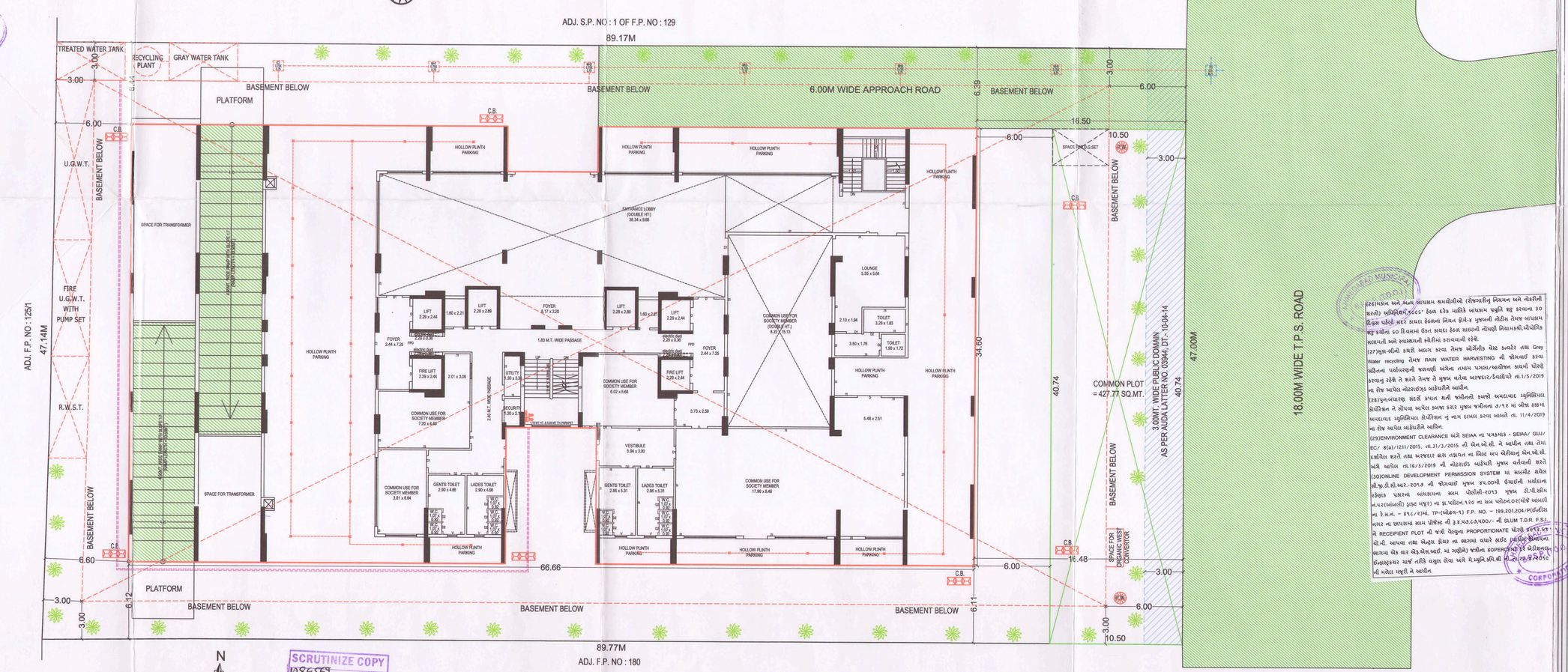


AREA TABLE

FLOOR	USE	UNIT	FLOOR AREA	FSI AREA	BUILT UP AREA
4TH BASE.	PARKING	-	-	-	3313.98
3RD BASE.	PARKING	-	-	-	3313.98
2ND BASE.	PARKING	-	-	-	3313.98
1ST BASE.	PARKING	-	-	-	3313.98
GROUND	COMMON USE FOR SOCI. MEMBER ONLY	-	958.65	958.65	2204.34
FIRST	RESI.	4 NOS.	988.43	988.43	2204.34
SECOND	RESI.	4 NOS.	1822.35	1822.35	1998.16
THIRD	RESI.	4 NOS.	1792.43	1792.43	1976.08
FOURTH	RESI.	4 NOS.	1792.43	1792.43	1976.08
FIFTH	RESI.	4 NOS.	1792.43	1792.43	1976.08
SIXTH	RESI.	4 NOS.	1792.43	1792.43	1976.08
SEVENTH	RESI.	4 NOS.	1792.43	1792.43	1976.08
EIGHTH	RESI.	4 NOS.	1792.43	1792.43	1976.08
NINTH	RESI.	4 NOS.	1792.43	1792.43	1976.08
TENTH	RESI.	4 NOS.	1792.43	1792.43	1976.08
ELEVENTH	RESI.	4 NOS.	1792.43	1792.43	1976.08
TWELFTH	RESI.	4 NOS.	1831.31	1831.31	1998.16
STAIR CABIN	-	-	-	-	220.67
O.H.W.T.	-	-	-	-	20.00
TOTAL	-	44 NOS.	21732.61	21732.61	39652.31



GROUND FLOOR PARKING LAYOUT PLAN



LAYOUT PLAN

SCRUTINIZE COPY 1086569 Dt. 1/5/19 TDO, BPSP, AMC

(1)THIS DEVELOPMENT PERMISSION IS GRANTED WITH CONDITION THAT APPLICANT AND ENGG.(ARCH.WILL OBEY AS PER ALL BOND(S) AND AFFIDAVITS PRODUCED BY APPLICANT AND ENGG.(ARCH.

(2)THIS APPROVAL IS GIVEN ACCORDING TO MUNICIPAL COMMISSIONER OF FICE ORDER DATED (07/2/05) AND OFFICE ORDER NO-42,DT.-13/06/05.

(3)THIS DEVELOPMENT PERMISSION IS GRANTED UNDER C.G.D.C.R.-2017 AS PER LETTER NO: GHV/2069 OF 2018/EDB-102018-3628-L, DATED:- 25/09/2018 AND LETTER NO. EDB-102018-3629-L, DATED:- 31/03/2018 AND LETTER NO. GHV/145 OF 2018/EDB-102018-3630-L, DATED:- 31/03/2018 AND LETTER NO. GHV/145 OF 2018/EDB-102018-3628-L, DATED:-25/04/2018 AND LETTER NO. GHV/1025/2018-L, DATED:-01/12/2018 AND LETTER NO. GHV/035/EDB-102018-3529-L, DATED:-20/12/2017 OF URBAN DEVELOPMENT AND URBAN HOUSING DEPARTMENT, GOVT. OF GUJARAT.

(4)RAIN WATER STORAGE TANK SHALL BE PROVIDE AS PER CGDCR-2017 CLAUSE NO. 25.2.3

(5)OWNER-APPLICANT-DEVELOPER SHALL HAVE TO PROVIDE BARRICADE OF STEEL-SHEETS/TIN-SHEETS OF SUFFICIENT HEIGHT (NOT LESS THAN 3.05MT.) DURING CONSTRUCTION/DEMOLITION ACTIVITY, AT ALL EDGES OF PLOT FOR SAFETY PURPOSE.

(6)THIS CASE HAS BEEN SCRUTINIZED AND APPROVED BY BUILDING PLAN SCRUTINY POOL ON DT.-25/4/2019

(7)APPLICANT(OWNER) ARCHITECT(ENGINEER)(STRUCTURE ENGINEER)CLERK OF WORKS (SITE SUPERVISOR) ARE SOLE RESPONSIBLE FOR STRUCTURAL STABILITY OF BUILDING DURING THE EXCAVATION/CONSTRUCTION OF THE CELLAR AND INSTEAD OF ENTIRE EXCAVATION IN ONE STRETCH, CONSTRUCTION OF THE CELLAR WILL HAVE TO DO BY PHASE WISE STRETCH AND ADEQUATE PROTECTIVE SUPPORT(SHORING / STRUTTING) AND FOR THE SAFETY OF THE ADJOINING PROPERTIES DURING EXCAVATION/CONSTRUCTION, THE NECESSARY ARRANGEMENTS WILL HAVE TO BE MADE BY OWNER/DEVELOPER/ARCHITECT/ENGINEER/STRUCTURE ENGINEER/CLERK OF WORKS CONTINUOUS SUPERVISION AND IF NEGINEER/CLERK OF WORK (SITE SUPERVISOR) FOR THE HAVE TO BE MADE FOR THE SAFETY OF THE ADJOINING PROPERTIES AND IMMEDIATE EFFECT, IF THE CONSTRUCTION / EXCAVATION / DEMOLITION WORK IS BEING DONE WITHOUT PROPER PRECAUTIONS TO ENSURE SAFETY.

(8)THIS DEVELOPMENT PERMISSION IS GRANTED SUBJECT TO RELAVENT TERMS AND COMMENCEMENT CERTIFICATE WILL BE ISSUED AFTER FULFILLING THE SUSPENDED/REVOKED WITH RDP NO.:- 03944 AND DEVELOPMENT AGREEMENT DULY EXECUTED BETWEEN OWNER HAS TO OBEY TO THE BOND (IN CONTEXT TO T.P.O. OPINION).

(9)THIS PERMISSION IS GIVEN ON THE BASIS OF OPINION FOR DRAFT T.P.SCHEME AND BETTERMENT CHARGES GIVEN BY CHIEF CITY PLANNER LETTER NO. - CP/AMC/GENERAL/OP-862, ON DT.:-10/06/2016

(10)THIS PERMISSION IS GIVEN ON THE BASIS OF KABJA KARAR OPINION GIVEN BY ASST.E.D.(N.W.Z.), DT.:10/8/2017

(11)THIS PERMISSION IS GRANTED AS PER THE N.O.C. OF AIRPORT AUTHORITY OF INDIA ON DTD.17/7/2014, NOC ID NO. AHMED-25-WEST-2014-NOC-2-0-2-0-0-0