

- NOTES:-
- ENGINEER IS FULLY RESPONSIBLE FOR LEAVING OPEN SPACE AND MARGIN.
 - THE DEPTH AND POSITION OF EXISTING MUNICIPAL MAINLINE IS DERIVED BY ME ON SITE AND PREMISES CAN GET DRAINAGE CONNECTION.
 - IT IS CERTIFY THAT ACCORDING TO DRAFT G.D.R. 2021 ALL REQUIREMENTS OF THE BUILDING ARE CHECKED AND NECESSARY ACTIONS ARE TAKEN.
 - IT IS CERTIFY THAT ACCORDING TO THE CLAUSE NO. 4.3.3 OF THE G.D.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 23.1.14 AND 24.6 OF G.D.R. 2021.
 - PEDESTRIAN RAMP IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 23.1.5 OF G.D.R. 2021.
 - LIFT IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 23.1.2 AND 24.7 OF G.D.R. 2021.
 - WATER TANK IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 23.6 OF G.D.R. 2021.
 - SEPARATE LETTER BOX IS PROVIDED AT GROUND LEVEL FOR EACH UNIT.
 - WATER TANK FOR FIRE SAFETY EQUIPMENT IS PROVIDED AS PER CLAUSE NO. 24 OF G.D.R. 2021.
 - ELECTRICAL INFRASTRUCTURE SHALL BE PROVIDED AS PER CLAUSE NO. 23.11.
 - ELECTRICAL FACILITY IS PROVIDED AS PER THE CLAUSE NO. 23.10.
 - DRAINAGE OF THE PARKING PLACE IS TO BE PROVIDED AS PER THE CLAUSE NO. 23.1.7 OF G.D.R. 2021.
 - ENTRANCE OF THE BUILDING IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 23.1.4 OF G.D.R. 2021.
 - THE YAMAKA OF BUILDING UNIT/FLOOR SHALL BE PROVIDED AS PER THE CLAUSE NO. 23.1.4 OF G.D.R. 2021.
 - THE STRUCTURE OF THE BUILDING IS AS PER THE NORMS OF THE SPECIFIC IN THE INDIAN STANDARD.
 - AND TAKEN NECESSARY ACTION FOR THE STRUCTURAL SAFETY DURING THE CONSTRUCTION.
 - RAIN WATER HARVESTING SYSTEM IS PROVIDED AS PER THE CLAUSE NO. 27.2 OF G.D.R. 2021.
 - COMMUNITY IS PROVIDED AS PER THE PROVISION OF THE CLAUSE NO. 27.3 OF G.D.R. 2021.
 - THREE PLANTATION IS PROVIDED AS PER THE CLAUSE NO. 27.5 OF G.D.R. 2021.

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 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 and above 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 as a Down - corner.

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 floor level. Each floor 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.

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

A permanent hydrant point comprising of 63 mm dia size 2nos 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 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 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) type extinguisher with ISI mark to be installed on each floor in case of commercial building.

One Carbon Dioxide (CO₂) type extinguisher of 4.5 kg. with ISI mark, OR Two Carbon Dioxide (CO₂) type extinguisher of 2 kg. with ISI mark capacity on alternate floors in case of residential building.

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 buildings it has to be pressurized to prevent it from getting smoke logged.

The Riser/Down-corner should be located in the staircase or close to it in 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 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.

7. LIGHTENING ARRESTER:

A lightning arrester should also be installed and be properly earthed to prevent damage to the building when the lightning 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 / pathway / dead-end along all exit routes leading to the ground level. The signage should indicate fire fighting, fire safety equipment 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 at the time of fire.

10. INDIVIDUAL FIRE SEFTY SYSTEM

FIRE SEFTY SYSTEM SHOULD BE PROVIDED IN INDIVIDUAL SHOW ROOM BY OWNER

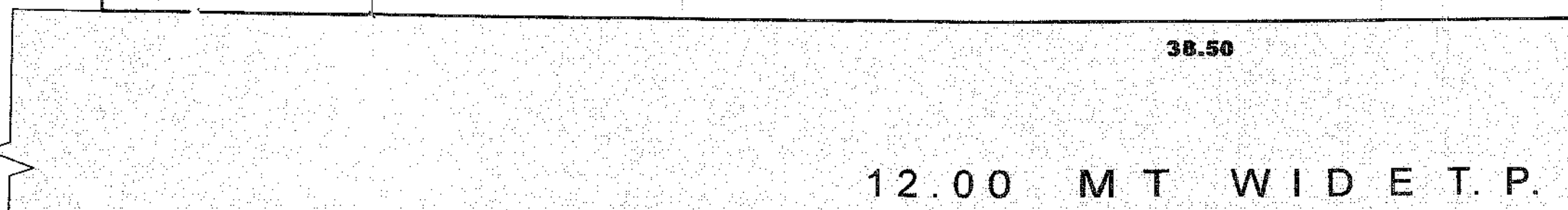
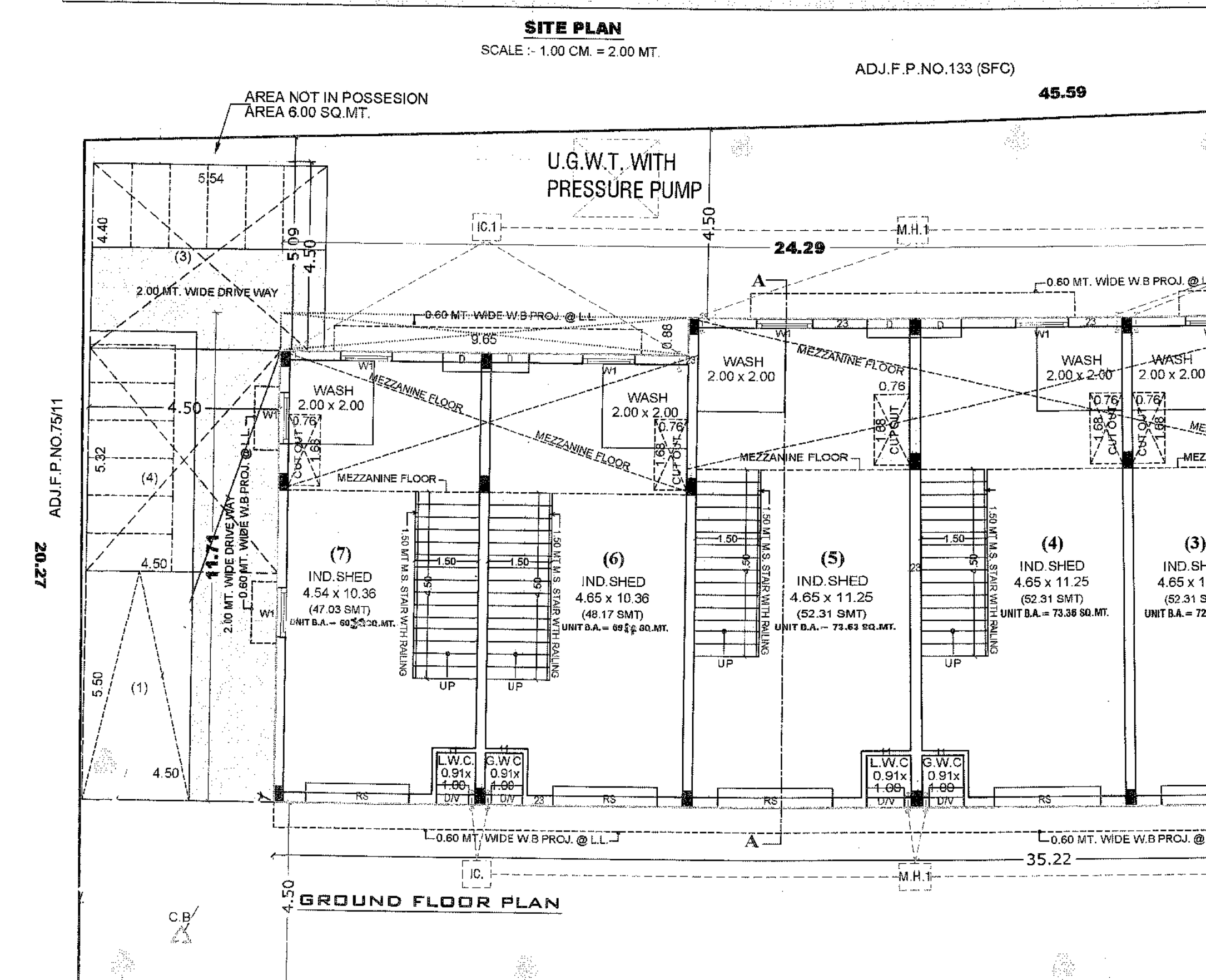
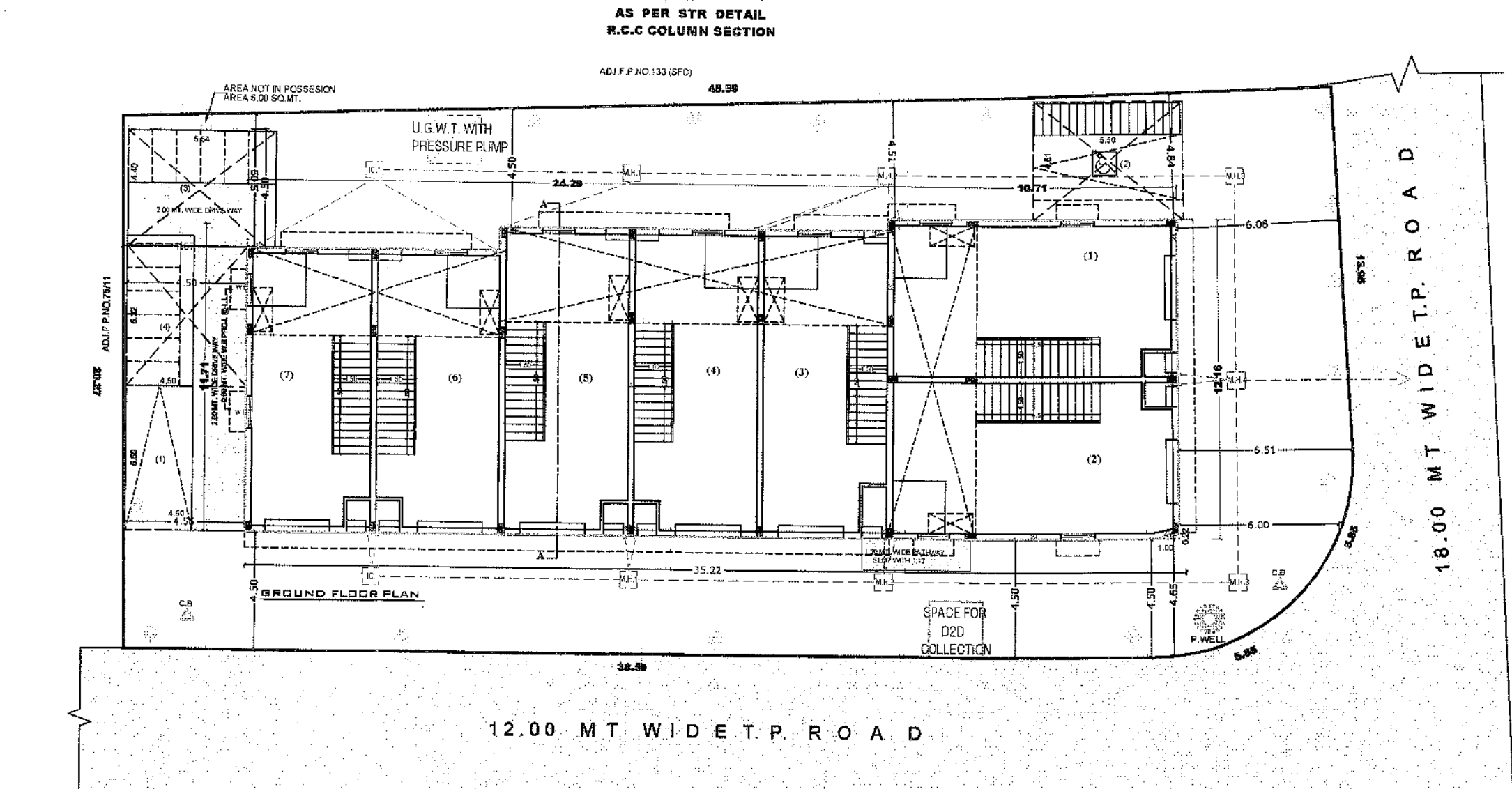
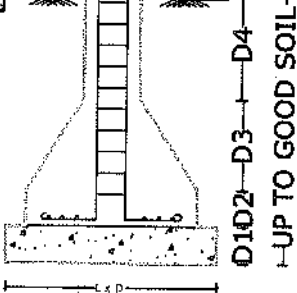
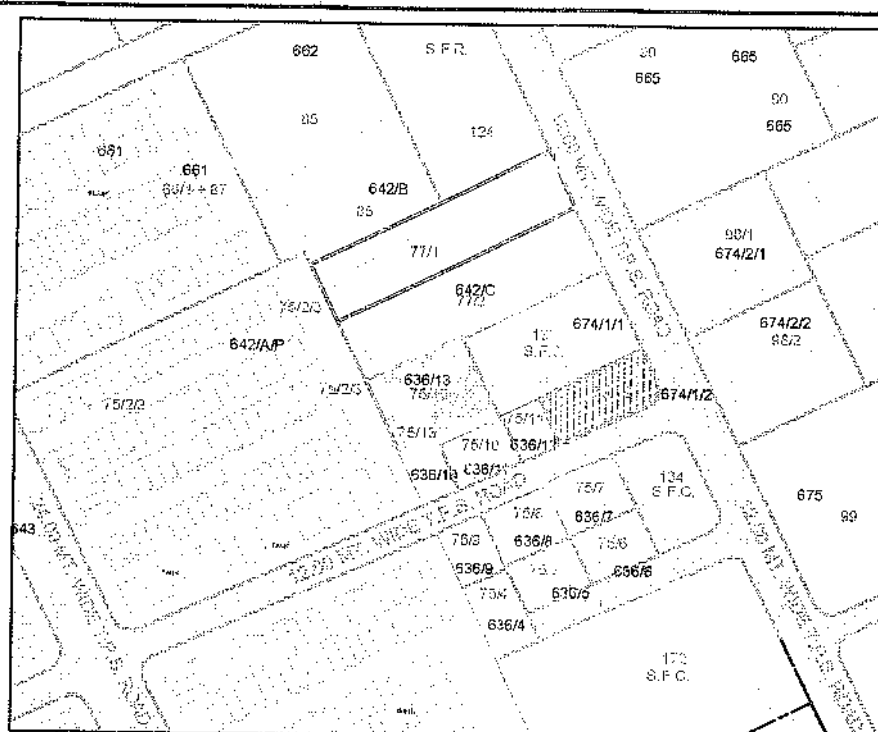
IMPORTANT INSTRUCTIONS:

After inspection of a low-rise building by the fire service authority, if the fire officer concerned feels it need for additional fire prevention/protection measures / ventilation system required or equipment (i.e., Passive system / Suppression system / Fire door / Window / Detection system / Active system / Sprinkler / Drencher etc.) as per Fire load / Fire risk / Public gathering.

Potential / Occupancy / Confined area.

These additional measures / equipment have to be implemented / installed.

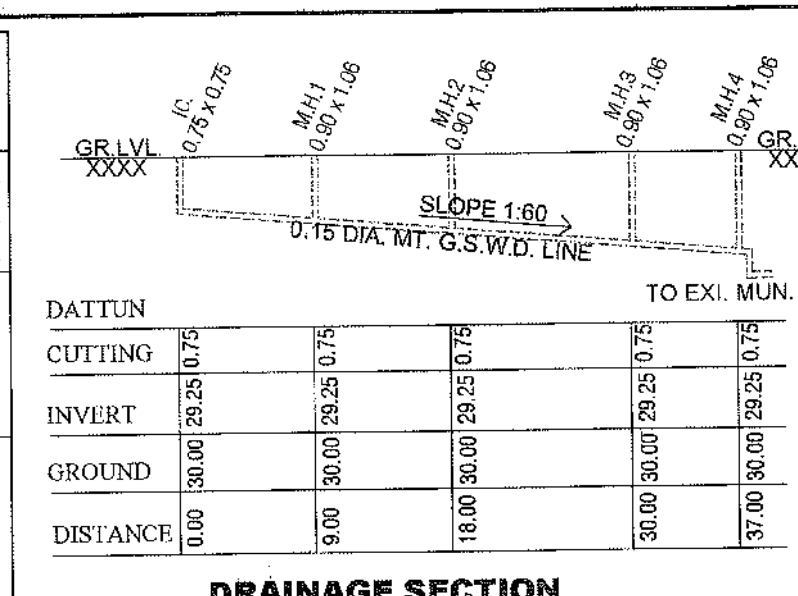
SR.	SYMBOL	DESCRIPTION
1		FIRE HYDRANT PIPE MAIN
2		SLUICE VALVE
3		NON RETURN VALVE
4		COURT YARD HYDRANT VALVE
5		LANDING HYDRANT VALVE
6		HOSE BOX
7		FIRST AID HOSE REEL
8		AIR RELEASE VALVE
9		TWO WAY STAIRCASE CONNECTION
10		RISE OR DROP



PARKING CALCULATION:-	IN SQ.MT.
REQ. PARKING 10 % OF NET PLOT AREA = 944.00 x 0.10	= 94.40 SQ.MT.
REQ. CAR PARKING 50 % (94.40 x 0.50) = 47.20 SQ.MT.	
REQ. TWO VEH. PARKING 50 % (94.40 x 0.50) = 47.20 SQ.MT.	
TOTAL	= 94.40 SQ.MT.

PROVI. CAR PARK. AREA:-	
(1) 4.50 x 5.50	= 24.75
(2) 5.50 x 4.51	= 24.81
TOTAL CAR PARKING	= 49.56

PROVI. OTHER'S PARK. AREA:-	
(3) 5.54 x 4.40	= 24.38
(4) 4.50 x 5.32	= 23.94
TOTAL CAR PARKING	= 48.32



DRAINAGE SECTION
SCALE: 1:100 CM = 2.00 MT.
VERTI.: 1CM = 1MT.

SANITARY PROVISION CALCULATION FOR COMMERCIAL	
TOTAL FLOOR AREA = 532.02 Smt.	
25 SQ.MT FLOOR AREA = 1 PERSON	
532.02/25 SQ.MT FL. AREA = 21.28 PER.	
SAY 22 PERSON	

1 URINAL REQ PER 100 USERS.	
1 W.C REQ PER 25 USERS.	
REQ URINAL = 0.22 Nos (SAY 1 NOS.)	
REQ W.C. = 0.88 Nos (SAY 1 NOS.)	
PROVIDED TOTAL TOILET = 2 W.C.	
L.TOI - 2	
G.TOI - 2	
COM. TOI - 2	
D.P. TOI - 1	
TOTAL - 7	

BUILT UP AREA & F.S.I. AREA TABLE		IN SQ MTS
B.A & F.S.I. AREA ON GROUND FLOOR		406.07
B.A & F.S.I. AREA ON MEZZANINE FLOOR		125.95
TOTAL BUILT UP & F.S.I. AREA		532.02

TENAMENT & FLOOR AREA TABLE			IN SQ. MTS
FLOOR	USE	EQ.TENA.	FLOOR AREA
GROUND	IND.SHED	7	406.07
MEZZANINE	IND.SHED	7	125.95
TOTAL	IND.SHED STORE	7	532.02

CONTAINER BIN AREA CAL.	
COMM : 100 SQ.MT. CARPET AREA	

CONTAINER BIN AREA CAL.
COMM : 100 SQ.MT. CARPET AREA
1 NOS BIN OF 20 LIT. CAP.
TOTAL CARPET 532.02x 20/100 = 106.40 LIT.
106.40 / 80 = 1.33 SAY 2 NOS CONTAINER

TREE PLANTATION CAL.
PLOT AREA = 944.00 SQ.MT.
200.00 SQ. MT. = 3 NOS. TREE REQ.
944.00 / 200 x 3 = 14.16 NOS.
SAY 15 NOS.
PROVIDE 15 NOS. TREE.

PERCOLATING WELL CALC:-
REQ. 500 TO 1500 SMT = 1 NOS.
944.00 / 1500.00 = 0.62 NOS.
SAY REQ. P.WELL = 1 NOS.
PROVI. P.WELL = 1 NOS.

BUILT UP AREA TABLE (UNIT AREA)			
UNIT NO	GR.FL.	MAZZ.FL.	TOTAL
1	95.74	20.10	85.84
2	95.68	20.49	86.17
3	54.78	17.61	72.37
4	55.75	17.61	73.36
5	55.86	17.67	73.53
6	52.85	16.32	69.17
7	52.85	16.25	69.10
TOTAL	403.17	126.05	529.22

B.A. & F.S.I. AREA CALC. IN SQ.MTS.	
GROUND FLOOR SHED NO.1 & 2	
10.71 x 12.16 = 130.23	
LESS:- 1.00 x 0.22 x 0.50 = 0.11	
TOTAL = 130.12	
GROUND FLOOR SHED NO.3 TO 7	
24.29 x 11.71 = 284.44	
LESS:- 9.65 x 0.88 = 8.49	
NET B.A. & F.S.I. AREA ON GR.FL.	(284.44 - 8.49) = 275.95
(130.12 + 275.95) = 406.07	

B.U.P AREA CALC. FOR EACH UNIT (GR. FL.)	
SHED NO.: 1	
GR.FL.	
10.82 x 5.63 = 60.92	
10.71 x 0.45 = 4.82	
TOTAL = 65.74	

SHED NO.: 2	
GR.FL.	
10.82 x 6.08 = 65.79	
LESS:- 1.00 x 0.22 x 0.50 = 0.11	
TOTAL = 65.68	

SHED NO.: 3	
GR.FL.	
4.88 x 9.67 = 47.19	
3.71 x 2.04 = 7.57	
TOTAL = 54.76	

SHED NO.: 4	
GR.FL.	
4.88 x 10.42 = 50.85	
3.80 x 1.28 = 4.90	
TOTAL = 55.75	

SHED NO.: 5	
GR.FL.	
4.88 x 9.54 = 46.56	
5.00 x 0.88 = 4.40	
3.80 x 1.29 = 4.90	
TOTAL = 55.86	

SHED NO.: 6 & 7	
GR.FL.	
4.88 x 10.87 = 52.85	

LAYOUT PLAN SHOWING PROP. INDU. SHED BUILD. ON SUR NO- 636/12, F.P. NO.- 75/12, D.T.P.S.NO.- 107 (RAMOL), AT:- RAMOL, TA:- VATVA DIST:- AHMEDABAD	
SCALE : 1.00 CM = 1.00 MT	
ZONE	INDUSTRIAL ZONE GENERAL - IG
USE	INDUSTRIAL SHED

AREA TABLE	IN SQ.MTS.
PLOT AREA OF F.P.NO:- 75/12	950.00
AREA NOT IN POSSOITION	6.00
NET PLOT AREA	944.00
PROP. BUILT UP AREA ON GROUND FLOOR	406.07
PROP. BUILT UP AREA ON MAZZANINE FLOOR	125.95

F.S.I. AREA TABLE	IN SQ.MTS.
NET PLOT AREA OF F.P.NO:- 75/12	944.00
PERM.F.S.I.@ 1:1	944.00
TOTAL F.S.I. AREA	532.02
BALANCE F.S.I. AREA	411.98

SCHEDULE OF OPENING	M.S. STAIR DETAIL
RS = 2.44 x 2.10 D/V = 0.76 x 2.10 W = 2.44 x 1.20	1.50 MT WIDTH
D = 0.91 x 2.10 D1 = 0.76 x 2.10 W1 = 1.22 x 1.20	0.30 MT TREAD
	0.16 MT RISER

COLOUR NOTES:	
PLOT BOUNDARY	PROP WORK
ROAD	PROP DRAINAGE
TREE	AREA NOT IN POSSE.
	P.WELL
	C.B.

NOTES:- ENTRY TO THE PREMISES SHALL BE:
1 UNIT OF DCP EXTINGUISHER 6KGS CAPACITY PER UNIT

SHREE RANG DEVELOPER
AMC DEV LIC NO.292160420
28, TULSI SOCIETY, C.T.M. AHD.

DEVELOPER

OWNER

ST. ENGINEER

ENGINEER

N. P. PARMAR
B. E. (CIVIL)
AMC/Lic No. SD-0360180916
15, Pathik Society,
Narajapole, S.P. Ring Road,
Vastal, Ahmedabad.

YOGESH P. PANCHAL
ENG. LIC. No. 0601090416R1
C-104, Goldcoast Residency,
Nar. Narajapole, S.P. Ring Road,
Vastal, Ahmedabad.

RESPONSIBILITY (G.D.R. 434 & 445):-
APPROVAL OF DRAWINGS AND ACCEPTANCE OF ANY STATEMENT, DOCUMENTS, STRUCTURAL REPORT, STRUCTURAL DRAWINGS, PROGRESS CERTIFICATE OR BUILDING COMPLETION CERTIFICATE, SHALL NOT DISCHARGE THE OWNER, ENGINEER, ARCHITECT, CLERK OF WORKS/SUPERVISOR, STRUCTURAL DESIGNER, DEVELOPER, OWNER FROM THEIR RESPONSIBILITIES IMPOSED UNDER THE ACT, THE DEVELOPMENT CONTROL REGULATIONS AND THE LAWS OF THE LAND AND LOCAL ACTS.

LIABILITY (G.D.R. 333):-
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 OR MORE OF THE AREA DURING SUCH CONSTRUCTION AND NO LIABILITY WHATSOEVER IN THIS REGARD SHALL BE CAST ON THE AUTHORITY.

Ahmedabad Municipal Corporation
Case No.: BLNTEV2060116GDR/2827/ROM1
Zone: East
Plan Approved as per terms and condition mentioned in the Commencement Certificate
Raja Chitani Number : 5756066116/2827/ROM1
Date : 01/04/2016

Sub Inspector
T.D.O./Asst. E.O.
R.K. Tadi
DILIP K. GOSWAMI
P.S.P. (T.M. & P.M.)
T.D.O. (Civil Center)
By M.C. East

AUTHORITY