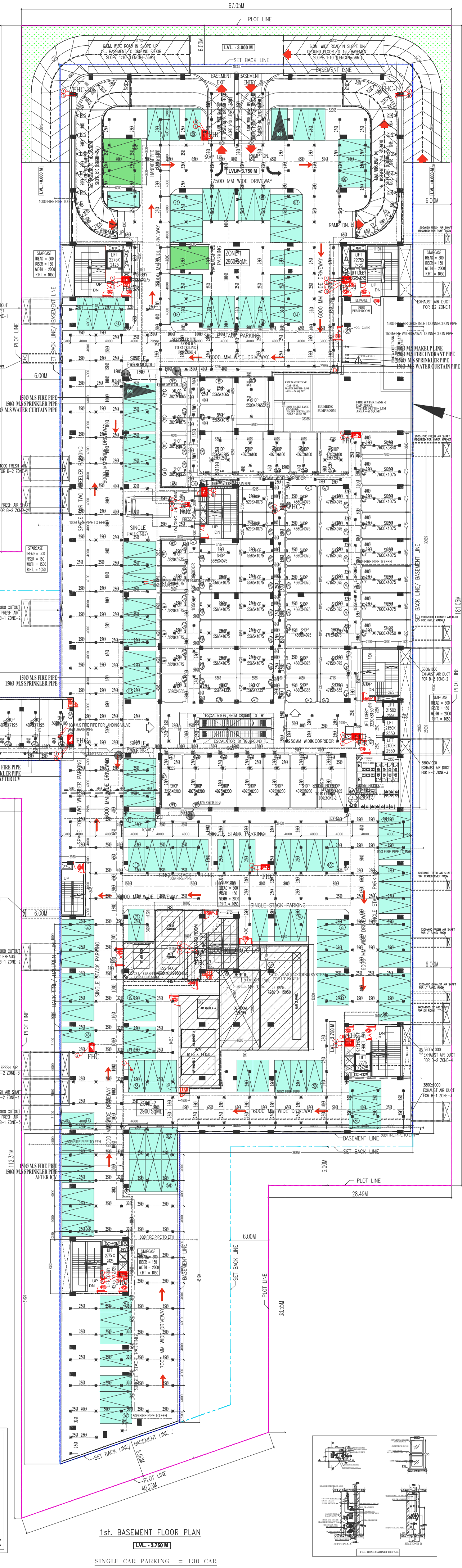


1st. BASEMENT AREA CALCULATION					
COVD. AREA AT 1st. BASEMENT = ADDITION AREA - DEDUCTION AREA					
Sr No	Dim (m)	X	Dim (m)	Rec.	Nos
ADDITION AREA					
B01	46.055	X	52.055	1.00	1
B02	4.245	X	0.880	0.67	2
B03	52.055	X	23.405	1.00	1
B04	55.055	X	139.050	1.00	1
B05	51.625	X	45.120	1.00	1
B06	59.660	X	60.085	1.00	1
TOTAL ADDITION AREA (A)					10516.932
DEDUCTION AREA					
D01	6.000	X	12.100	1.00	1
TOTAL DEDUCTION AREA (B)					72.600
TOTAL COVD. AREA AT 1st. BASEMENT (C) = (A-B)					10444.332
CORE & SERVICES AREA AT 1st. BASEMENT					
N01	11.100	X	8.350	1.00	1
N02	11.100	X	19.970	1.00	1
N03	21.665	X	9.180	1.00	1
N04	4.600	X	5.750	1.00	1
N05	5.765	X	2.200	1.00	1
N06	0.965	X	1.200	1.00	1
N07	0.965	X	2.050	1.00	2
N08	2.100	X	8.130	1.00	1
N09	3.600	X	7.300	1.00	1
N10	3.275	X	0.615	1.00	1
N11	1.720	X	24.835	1.00	1
N12	2.250	X	2.350	1.00	2
N13	2.150	X	2.550	1.00	2
N14	0.600	X	1.000	1.00	1
N14a	0.600	X	1.200	1.00	1
N15	13.520	X	4.800	1.00	1
N16	0.630	X	0.980	1.00	1
N16a	0.630	X	1.370	1.00	1
N17	12.810	X	12.860	1.00	1
N18	4.900	X	7.900	1.00	1
N19	0.925	X	2.150	1.00	1
N20	9.150	X	2.695	1.00	1
N21	(1.245 + 1.595) / 2	X	7.995	1.00	1
N22	10.100	X	1.225	1.00	1
N23	10.405	X	3.825	1.00	1
N24	15.155	X	5.950	1.00	1
N25	2.755	X	4.300	1.00	1
N26	6.000	X	4.050	1.00	1
N27	0.200	X	2.250	1.00	1
N28	6.545	X	14.550	1.00	1
N29	1.600	X	0.775	1.00	1
N30	6.000	X	0.200	1.00	1
N31	7.680	X	16.350	1.00	1
N32	10.700	X	8.350	1.00	2
N33	3.950	X	8.435	1.00	1
TOTAL CORE & SERVICES AREA AT 1st. BASEMENT (D)					1441.103

FAR AREA AT AREA AT 1st. BASEMENT					
F01	6.070	X	8.850	1.00	1
F02	33.355	X	33.965	1.00	1
F03	6.070	X	17.165	1.00	1
F04	37.430	X	75.035	1.00	1
F05	(61.760 + 62.185) / 2	X	9.795	1.00	1
F06	17.615	X	8.475	1.00	1
TOTAL FAR AREA AT 1st. BASEMENT (E)					2984.181
NET FAR AREA AT 1st. BASEMENT (F) = (E - N04 TO N10 & N12 TO N21)					2713.217
TOTAL NON FAR AREA AT 1st. BASEMENT (G) = (C - F)					7731.115
TOTAL PARKING AREA 1st. BASEMENT (H) = (G) - (N01 TO N03 + N22 TO N33)					6603.692
PARKING CAN BE PROVIDE AT 1st. BASEMENT = (6603.692 / 32)					206.365
NORMAL (SINGLE) PARKING AT 1st. BASEMENT = (130 X 1)					130 CAR

Staircase Calculation For 1st. BASEMENT					
Floors	Average occupant load as per NBC (10/m ²)	No. of occupants	Stair case Required	Stair case Provided	
Merchandise Area	2713.217	3	804.41	10	804.06
TOTAL = 3000 X 1000 MM					1 X 2700 X 2700 MM
TOTAL = 3000 X 1000 MM					1 X 1800 X 1800 MM
TOTAL = 3000 X 1000 MM					1 X 1800 X 1800 MM

1st. BASEMENT TOILET CALCULATION					
TOTAL FAR AREA AT 1st. BASEMENT					
NO.	POPULATION	10%	20%	30%	40%
POPULATION	2713.217	271.32	542.64	813.97	1085.29
MALE	1356.61	135.66	271.32	406.98	542.64
FEMALE	1356.61	135.66	271.32	406.98	542.64
URINAL	2.01	2.01	4.02	6.03	8.04
WASH BASIN	2.41	2.41	4.82	7.23	9.64



- GENERAL NOTES :**
1. DRAWINGS IN PL & FF SERIES REPRESENTS PLUMBING AND FIRE SUPPRESSION SYSTEM DETAIL.
 2. IN CASE OF ANY DISCREPANCY IT SHOULD BE BROUGHT TO THE NOTICE OF ARCHITECT / PROJECT MANAGER / CONSULTANT.
 3. DRAWING SHOULD NOT BE SCALED.
 4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, LAND SCAPING, STRUCTURAL AND OTHER SERVICES DRAWING.
 5. ALL SERVICES SHAFTS SHOULD BE SEALED AT EVERY FLOOR LEVEL AFTER INSTALLING SERVICES.

- FIRE LEGEND:-**
- ⊕ PENDENT SPRINKLER(QUICK RESPONSE)
 - ⊕ UPRIGHT SPRINKLER(QUICK RESPONSE)
 - ⊕ EXTENDED THROUGH SIDE WALL SPRINKLER(QUICK RESPONSE)
 - ⊕ SIDE WALL SPRINKLER(QUICK RESPONSE)
 - ⊕ EXTENDED THROUGH SIDE WALL SPRINKLER(QUICK RESPONSE)
 - ⊕ SIDE WALL SPRINKLER(QUICK RESPONSE)
 - ⊕ FUTURE CONNECTION
 - ⊕ FHC FIRE HOSE CABINET
 - ⊕ WATER CURTAIN PIPE
 - ⊕ FIRE PIPE FOR FHC
 - ⊕ SPRINKLER MAIN PIPE
 - ⊕ SPRINKLER BRANCH PIPE
 - ⊕ DELUGE VALVE
 - ⊕ FLOW SWITCH
 - ⊕ WATER CURTAIN NOZZLE
 - ⊕ EXTERNAL FIRE HYDRANT
 - ⊕ FIRE DOOR
 - ⊕ ISOLATION CONTROL VALVE
 - ⊕ CO2 TYPE FIRE EXTINGUISHERS 4.5KG.
 - ⊕ 9 Lit. M.T. TYPE CO2 FIRE EXTINGUISHER
 - ⊕ CEILING MOUNDED FIRE EXTINGUISHERS
 - ⊕ ISOLATION VALVE
 - ⊕ NON-RETURN VALVE
 - ⊕ DROP
 - ⊕ RISE
 - ⊕ 1000 FIRE HYDRANT PIPE
 - ⊕ 800 FIRE DRAIN PIPE
 - ⊕ 1500 SPRINKLER PIPE
 - ⊕ 1000 MAKE-UP PIPE

UGT

FIRE CONSULTANT
C P VIDYA & ASSOCIATES

SCHEDULE OF OPENINGS

TYPE	WIDTH	HEIGHT	SILL HT.	LINTEL
W1	3600	1800	900	2700
W2	5200	1800	900	2700
W3	8000	1800	900	2700
W4	1800	1800	900	2700
W5	2500	1800	900	2700
GL GLAZING (AS/PLAN)				
GD	3675	2100	-	2100
D1	2000	2100	-	2100
D2	1500	2100	-	2400
D3	1000	2100	-	2100
D4	900	2100	-	2100
D5	750	2100	-	2100
FCD	2000	2100	-	2100
FCD1	1500	2100	-	2100
FD	750	2100	-	2100

NOTES

1. WHOLE BUILDING SHALL BE MECHANICALLY VENTILATED WITH 100% POWER BACKUP AND SPRINKLERS WITH ARTIFICIAL LIGHTING.
2. HANDICAP RAMP WITH RAILING
3. ALL PARTITION ARE IN 125/200MM THICK IN BLOCK WORK .

ARCHITECT'S SIGN

OWNER'S SIGN

CLIENT
M/s. MANGLAM MULTIPLEX PRIVATE LIMITED

PROJECT:-
PROPOSED BUILDING PLAN OF COMMERCIAL COLONY FOR AN AREA MEASURING 4.0 ACRES (LICENCE NO 84 OF 2022 DATED 06.07.2022) IN SECTOR-45, GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY MANGLAM MULTIPLEX PRIVATE LIMITED.

DATE
10/07/2022

SCALE
1:100

DRG NO
04/2022

FF-03