NOTE :-

1 BUILDING HAS AUTOMATIC SPRINKLER SYSTEM WHEREVER REQUIRED BY NBC.

2 BUILDING WILL BE DESIGNED (STRUCTURES) AS PER RELEVENT IS CODES FOR EARTH QUAKE RESISTANCE.

3 WC SHALL BE MECHANICALLY LIGHT & VENTILATED WHEEVER REQUIRED

This is a PROVISIONAL BUILDING PLANT approved only for the purpose of making Objections from the general public

S.P.Singh Manmat Chaudhary B.P.&C.	S.T.P.(O) Assistant B.P.&C.	C.T.P.(HQ) Chief Planner B.P.&C.

Dr.P.(O)	A.P.	A.T.P.(O)

TO BE REMOVED WITH THIS OFFICE REMO NO.:
DATED :

Rajesh Dutt
J.E.(H.Q)

PROJECT:
ADDITIONAL & REVISED BUILDING PLANS FOR GROUP HOUSING COLONY UNDER MIX LAND USE IN TOD ZONE (99% CH COMPONENT + 01% COMMERCIAL COMPONENT) WITH FAR (LICENCE NO 80 OF 2012 DATED 17.08.2012) OVER AN AREA MEASURING 24.10 ACRES FALLING IN SECTOR 106, GURUGRAM BEING DEVELOPED BY ELAN AVENUE LTD AND OTHER'S (EARLIER KNOWN AS ARMID DEVELOPERS LTD.)

OWNER'S SEAL & SIGNATURE

Elan Avenue nited
Authoris: Authority

ARCHITECT'S SEAL & SIGNATURE

DDH/HQ Member BPHC

Ar. Ravinder Kumar CA/2012/55071

Checked and found ok for Public Health. Previously Sewage only allowed to connected to Jheruwag Nallah 20413.75 Dt. 2/9/17

JUNE-2024.

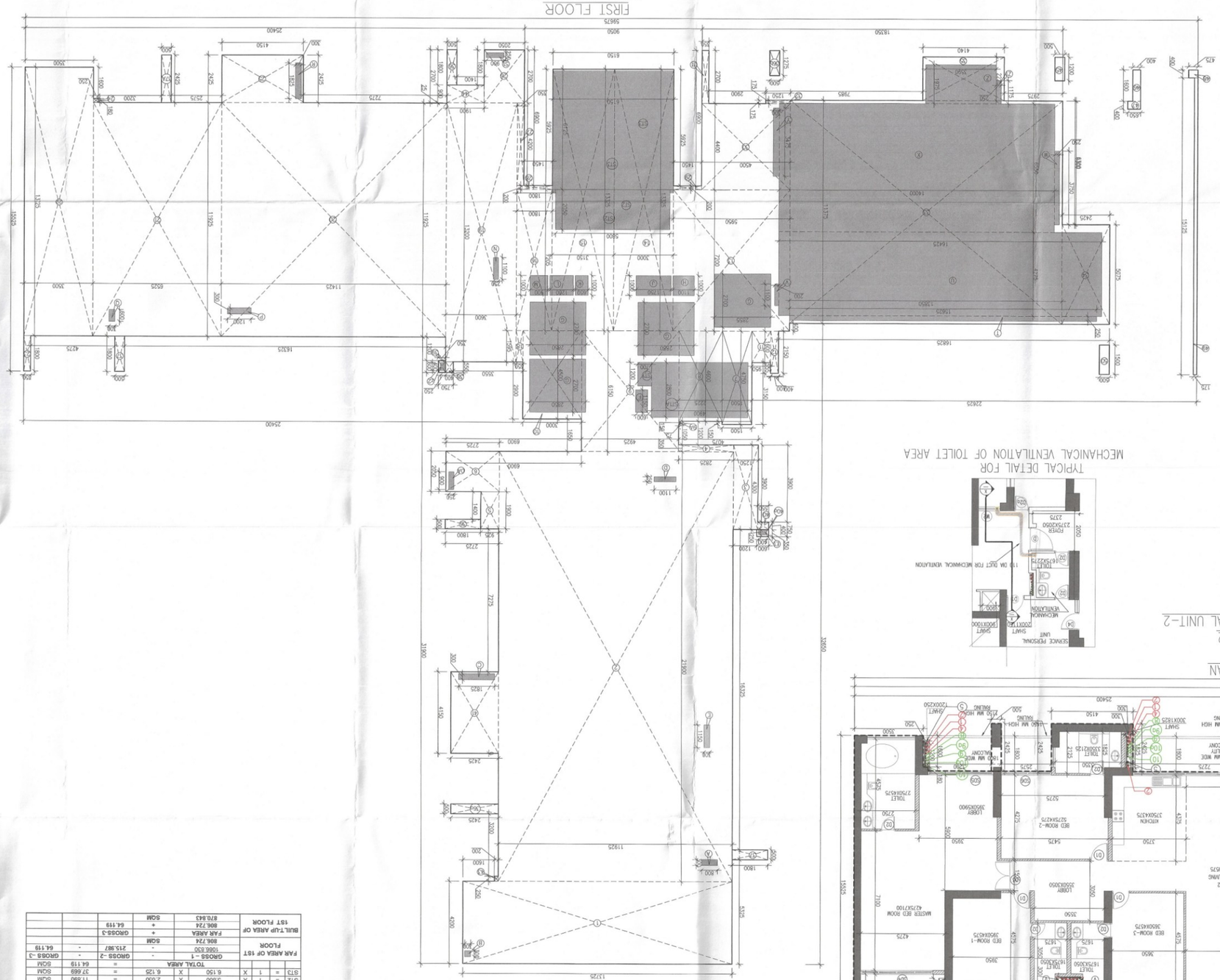
Drawing Title:- TOWER-16 FIRST FLOOR PLAN & FAR AREA CALCULATION

Drawing No:- 116/58

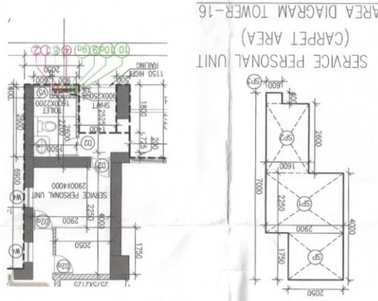
N

NORTH

FIRST FLOOR AREA DIAGRAM TOWER-16

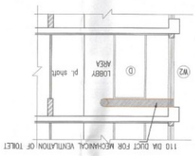


SERVICE PERSONAL UNIT (CARPET AREA) AREA DIAGRAM TOWER-16



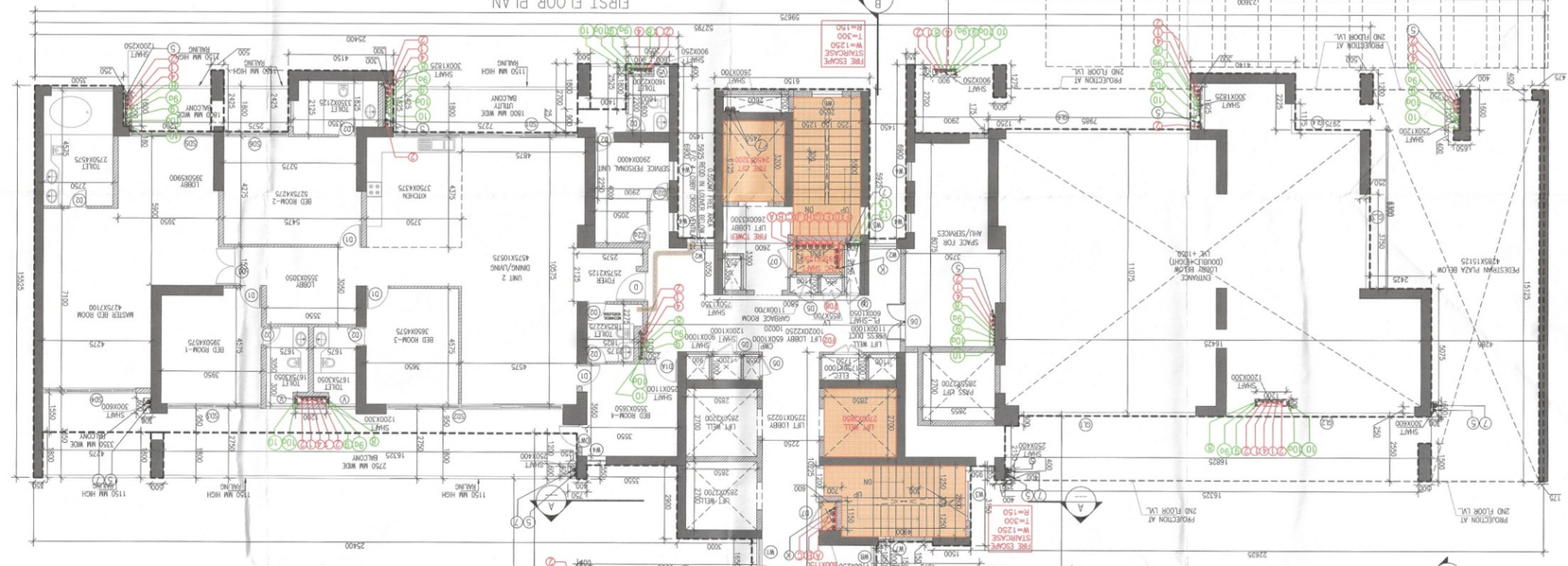
PERSONAL SERVICE AREA									
GROSS - XX									
SP3	=	1	X	2.060	X	1.750	=	3.568	SQM
SP1	=	1	X	2.250	X	2.900	=	6.525	SQM
SP2	=	1	X	1.600	X	2.600	=	4.160	
SP3	=	1	X	0.600	X	0.400	=	0.240	SQM
TOTAL	=	14.813	SQM						

SECTION XX



Typical Mechanical Ventilation Calculation for WC													
1.1	ENTRANCE TOILET	2.275	1.825	4.15	44.36	2.70	8.86	396	79	1#100 CFM, below Fan	300+250=550	110 l/s	
Typical Mechanical Ventilation Calculation for WC													
Tower-16-Toilet Exhaust Sheet													
S. No.	LOCATIONS	Toilet Dimension in [mm]		Toilet Area	Toilet Height	Toilet Volume	Toilet Oxygen	Toilet Exhaust Fan		Fan Size	Exhaust Duct Size		
		Length	Width	in [Sq feet]	in [meter]	in [Sq feet]	in [Cubic]	in [CFM]				Diameter [mm]	Length [mm]
1	Typical Mechanical Ventilation Calculation for WC												

FIRST FLOOR PLAN LVL+550 NO OF UNITS-2 NO OF SERVICE PERSONAL UNIT-2 TOWER- 16



TYPICAL DETAIL FOR MECHANICAL VENTILATION OF TOILET AREA

SCHEDULE OF DOORS & WINDOWS					
TYPE	SIZE	LOCATION	DESCRIPTION	SILL LVL	LINTEL LVL
D	1200x2400	UNIT ENTRY	FIRE DOOR (1 HR)		2400
D1	900x2400	BED ROOM	MOULDED DOOR		
D1A	800x2400	BED ROOM	FIRE DOOR (1 HR)		2400
D2	750x2400	TOILET/STORE/ DRESSER	MOULDED DOOR		
D3	1525X2400	M.BED ROOM			2400
D4	900x2400	SERVICE PERSONAL	FIRE DOOR (1 HR)		2400
D5	750x2400	GARBAGE SPACE/PLUMBING SHAFT	MOULDED DOOR (1/2 HR)	100	2400
D6	1200x2700	ENTRANCE LOBBY	ALL GLASS DOOR		2700
D7	900X2100	FIRE TOWER EXIT	MOULDED DOOR	100	2300
D8	600X2400	PLUMBING SHAFT	MOULDED DOOR (1/2 HR)	100	2400
D9	750x2400	WAITING AREA/ROOM/SERVICE PERSONAL	FIRE DOOR (1 HR)		2400
D10	1200x2400	ELECTRICAL SHAFT	FIRE DOOR (2 HR)	100	2400
D1A	1200x2400	STAIRCASE/LIFT LOBBY	FIRE DOOR(2 HR)		2400
D2A	750x2400	WAITING AREA/ROOM/SERVICE PERSONAL	FIRE DOOR (2 HR)	100	2400
FD1	750x2100	LV	FIRE DOOR (2 HR)		2400
FD2	600X2100	PLUMBING SHAFT	FIRE DOOR (2 HR)	100	2400
FD3	1200x2400	STAIRCASE/LIFT LOBBY	FIRE DOOR(2 HR)	100	2400
SD1	1725 X 2700	DINING/KITCHEN	AL. WINDOW	1200	2700
SD2	6975 X 2700	BED ROOM	AL. SLIDING DOOR		2700
SD3	3700 X 2700	BED ROOM	AL. SLIDING DOOR		2700
SD4	3675 X 2700	BED ROOM	AL. SLIDING DOOR		2700
SD5	3300 X 2700	LOUNGE	AL. SLIDING DOOR		2700
SD6	3325 X 2700	BED ROOM	AL. SLIDING DOOR		2700
SD7	6725 X 2700	M.BED ROOM	AL. SLIDING DOOR/WINDOW	600/300	2700
SD8	2525 X 2700	BED ROOM	AL. SLIDING DOOR		2700
D1	1200 X 2250	M.BED ROOM	DOOR-WINDOW	300	2700
D2	1200 X 2100	LOBBY/TYPED GLAZED PANELS)	DOOR		2700
W1	1300 X 2250	LOBBY/TYPED GLAZED PANELS)	LOUVERED WINDOW	100	2700
PW1	1095 X 2250	WAITING/SERV. PERS.	FIRE GLASS (2 HR)	100	2700
W2	1095 X 2250	WAITING/SERV. PERS.	LOUVERED WINDOW	100	2700
W3	1500 X 1500	STAIRCASE	AL. GLAZED WINDOW		2700
PW2	750 X 2400	WAITING/SERV. PERS.	AL. GLAZED WINDOW	100	2700
W4	1500 X 1500	WAITING/SERV. PERS.	FIRE GLASS (2 HR)	100	2700
W5	1100X1500	STAIRCASE	LOUVERED WINDOW	1200	2700
W6	600 X1500	STAIRCASE	LOUVERED WINDOW	1200	2700
W7	1500X1500	LOBBY	LOUVERED WINDOW	1200	2700
V1	600X1500	TOILET	VENTILATION	600	2700
V2	1025X1200	TOILET	VENTILATION	600	2700
V3	600X1200	TOILET	VENTILATION	600	2700
V4	750X1200	TOILET	VENTILATION	600	2700
V5	600X1200	TOILET	VENTILATION	600	2700
FV1	1025X1200	TOILET	FIRE GLASS (2 HR)	600	2700
V	600X1200	TOILET	VENTILATION	600	2700
W8	1050X1500	LOBBY	LOUVERED WINDOW	1200	2700
W9	600 X1500	STAIRCASE	LOUVERED WINDOW	1200	2700
W10	1500X1500	STAIRCASE	LOUVERED WINDOW	1200	2700
W11	1500X1500	STAIRCASE	LOUVERED WINDOW	1200	2700
W12	1500X1500	LOBBY	LOUVERED WINDOW	1200	2700

FAR AREA CALCULATION OF 1ST FLOOR (TOWER-16)									
GROSS-1									
1	=	13.725	X	4.200	=	57.645	SQM		
2	=	11.925	X	21.900	=	261.158	SQM		
3	=	4.300	X	4.200	=	18.060	SQM		
4	=	2.825	X	0.350	=	0.989	SQM		
5	=	1.250	X	4.300	=	5.375	SQM		
6	=	2.725	X	2.050	=	5.586	SQM		
7	=	1.200	X	4.750	=	7.125	SQM		
8	=	2.225	X	4.600	=	10.235	SQM		
9	=	0.925	X	1.900	=	1.758	SQM		
10	=	2.825	X	0.350	=	0.989	SQM		
11	=	1.250	X	4.300	=	5.375	SQM		
12	=	2.725	X	2.050	=	5.586	SQM		
13	=	1.200	X	4.750	=	7.125	SQM		
14	=	2.225	X	4.600	=	10.235	SQM		
15	=	0.925	X	1.900	=	1.758	SQM		
GROSS-2									
A	=	0.600	X	0.300	=	0.240	SQM		
B	=	1.000	X	0.300	=	0.090	SQM		
C	=	1.625	X	0.300	=	0.049	SQM		
D	=	1.100	X	0.250	=	0.275	SQM		
E	=	1.300	X	0.250	=	0.325	SQM		
DEDUCTION AREA									
TOTAL AREA								1086.839	SQM

				FAR AREA					
FLOOR				804.724					
FAR AREA OF 1ST FLOOR				GROSS-1	-	GROSS-2	-	GROSS-3	-
				804.724		+		+	
					SQM				SQM
					255.987		-		66.119
				TOTAL AREA					64.119
ST1	=	1	X	0.700	X	1.200	=	0.840	SQM
ST2	=	1	X	6.150	X	6.135	=	37.669	SQM
ST3	=	1	X	4.800	X	2.700	=	11.760	SQM
ST4	=	1	X	4.600	X	2.700	=	12.420	SQM
ST5	=	1	X	0.700	X	1.200	=	0.840	SQM
GROSS-3 SUBTRACT DEDUCTION AREA									
				TOTAL AREA					
Z2	=	1	X	0.250	X	0.400	=	0.100	SQM
Z1	=	1	X	0.250	X	1.175	=	0.294	SQM
Z	=	1	X	0.300	X	3.475	=	1.043	SQM
X	=	1	X	14.000	X	6.550	=	91.700	SQM
W	=	1	X	0.400	X	1.750	=	0.700	SQM
V	=	1	X	0.250	X	1.100	=	0.320	SQM
U	=	1	X	4.425	X	2.375	=	10.511	SQM
T	=	1	X	15.825	X	0.250	=	3.956	SQM
S1	=	1	X	0.900	X	0.250	=	0.225	SQM
R	=	1	X	3.000	X	1.825	=	5.548	SQM
Q	=	1	X	0.250	X	0.600	=	0.150	SQM
P	=	1	X	1.200	X	0.300	=	0.360	SQM
N	=	1	X	0.250	X	1.400	=	0.375	SQM
M	=	1	X	0.400	X	1.000	=	0.400	SQM
L	=	1	X	1.200	X	1.000	=	1.200	SQM
K	=	1	X	0.600	X	1.000	=	0.600	SQM
J	=	1	X	1.750	X	1.000	=	1.750	SQM
H	=	1	X	1.000	X	1.000	=	1.000	SQM
G	=	4	X	2.850	X	3.250	=	30.160	SQM
F	=	1	X	0.600	X	1.150	=	0.690	SQM
E1	=	1	X	0.600	X	0.250	=	0.150	SQM
E	=	1	X	0.300	X	1.100	=	0.345	SQM
D1A	=	1	X	0.250	X	0.600	=	0.225	SQM
D	=	1	X	1.100	X	0.250	=	0.275	SQM
C	=	1	X	1.625	X	0.300	=	0.049	SQM
B	=	1	X	0.300	X	0.300	=	0.090	SQM
A	=	1	X	0.600	X	0.400	=	0.240	SQM
GROSS-2									
50	=	1	X	0.600	X	1.500	=	0.750	SQM
49	=	1	X	0.175	X	15.125	=	2.647	SQM
48	=	1	X	0.475	X	0.400	=	0.190	SQM
47	=	1	X	0.600	X	0.400	=	0.240	SQM
46	=	1	X	0.400	X	1.600	=	0.640	SQM
45	=	1	X	0.600	X	1.500	=	0.600	SQM
44	=	1	X	1.900	X	0.900	=	1.710	SQM
43	=	1	X	0.250	X	0.250	=	0.025	SQM
41	=	1	X	2.425	X	4.150	=	10.064	SQM
40A	=	1	X	1.000	X	0.300	=	0.210	SQM
40	=	1	X	0.500	X	0.400	=	0.200	SQM
39	=	1	X	0.300	X	0.300	=	0.210	SQM
38	=	1	X	0.400	X	0.500	=	0.200	SQM
37A	=	1	X	0.500	X	2.425	=	1.213	SQM
37	=	2	X	1.800	X	1.250	=	1.600	SQM
36A	=	1	X	1.175	X	0.500	=	0.638	SQM
36	=	1	X	2.425	X	0.500	=	1.213	SQM
35	=	2	X	0.500	X	1.600	=	1.600	SQM
34	=	1	X	2.425	X	4.150	=	10.064	SQM
33	=	1	X	5.675	X	2.425	=	13.761	SQM
32	=	1	X	11.800	X	11.175	=	131.865	SQM
31	=	1	X	0.250	X	0.600	=	0.150	SQM
30	=	1	X	4.600	X	4.400	=	19.800	SQM
29	=	1	X	4.150	X	4.200	=	17.430	SQM
28	=	1	X	1.600	X	0.300	=	0.480	SQM
27	=	1	X	0.350	X	4.200	=	1.470	SQM
26	=	1	X	2.050	X	3.700	=	7.585	SQM
25	=	1	X	4.150	X	2.425	=	10.064	SQM
24	=	1	X	0.250	X	0.100	=	0.025	SQM
23	=	1	X	1.800	X	1.800	=	3.240	SQM
22	=	1	X	1.500	X	1.500	=	2.250	SQM
21	=	1	X	6.625	X	11.925	=	79.011	SQM
20	=	1	X	11.425	X	11.925	=	136.243	SQM
19	=	1	X	3.600	X	13.325	=	47.970	SQM
18	=	1	X	0.350	X	1.500	=	0.525	SQM
16	=	1	X	1.600	X	7.500	=	12.000	SQM
15	=	1	X	3.150	X	13.325	=	41.974	SQM
14	=	1	X	3.600	X	13.325	=	47.970	SQM
13	=	1	X	3.600	X	7.300	=	42.840	SQM
12	=	1	X	0.400	X	2.100	=	0.840	SQM
11	=	1	X	0.950	X	1.600	=	1.520	SQM
10	=	1	X	2.000	X	4.500	=	13.500	SQM
9A	=	1	X	1.075	X	0.150	=	0.011	SQM
9	=	1	X	4.925	X	6.150	=	30.289	SQM
8	=	1	X	2.225	X	4.600	=	10.235	SQM
7	=	1	X	1.200	X	4.750	=	7.125	SQM
6	=	1	X	2.725	X	2.050	=	5.586	SQM
5	=	1	X	0.925	X	1.900	=	1.758	SQM
4	=	1	X	2.825	X	0.350	=	0.989	SQM
3	=	1	X	1.250	X	4.300	=	5.375	SQM
2	=	1	X	11.925	X	21.900	=	261.158	SQM
1	=	1	X	13.725	X	4.200	=	57.645	SQM

PLUMBING LEGEND :-	
1	100#/100 SOIL PIPE
2	100#/100 WASTE PIPE
2A	100#/100 WASTE PIPE FOR UTILITY BALCONY
3	75#-VENT PIPE
4	100#/100 KITCHEN WASTE PIPE
5	100#/100 #AN WATER PIPE FOR BALCONY
6	100#/100 #AN WATER PIPE FOR TERRACE
7	100#/90#-#AN WATER PIPE FOR TERRACE
8	DOMESTIC WATER SUPPLY (GROSSING) (TOP 5M FLOORS)
9	PLUMBING WATER SUPPLY (BY GRAVITY) 5#M TO GROUND FLOOR
10	DOMESTIC WATER SUPPLY (BY GRAVITY) 5#M TO GROUND FLOOR
11	DOMESTIC WATER SUPPLY RISER FOR O.H. TANK
12	PLUMBING WATER SUPPLY RISER FOR O.H. TANK

FIRE FIGHTING PIPE LEGEND :-	
SW	FIRE FIGHTING PIPE ZONE-1
A	HYDRANT PIPE ZONE-1
B	HYDRANT PIPE ZONE-2
C	SPRINKLER PIPE ZONE-1
D	SPRINKLER PIPE ZONE-2
E	SPRINKLER PIPE ZONE-3
F	SPRINKLER PIPE ZONE-4
G	SPRINKLER PIPE ZONE-5
FT	FLOOR TRAP
WFT	WAT'S FLOOR TRAP
FWS	FLUSHING WATER SUPPLY
DWS	DOMESTIC WATER SUPPLY
CO	CLEAN OUT PLUG
FCO	FLOOR CLEAN OUT PLUG
FD	FLOOR DRAIN
BD	BALCONY DRAIN
DP	DRAIN POINT

PLUMBING LEGEND :-	
SP	SPRINKLER
SD	SMOKE DETECTOR
HB	HOSE BOX
FE	FIRE EXTINGUISHER
MCP	MANUAL CALL POINT
FAP	FIRE ALARM PANEL
HR	HOOTER
FP	FIRE PUMP
UGT	UNDER GROUND TANK
OHT	OVER HEAD TANK
PR	PRESSURE REDUCING VALVE
FC	FIRE CABINET