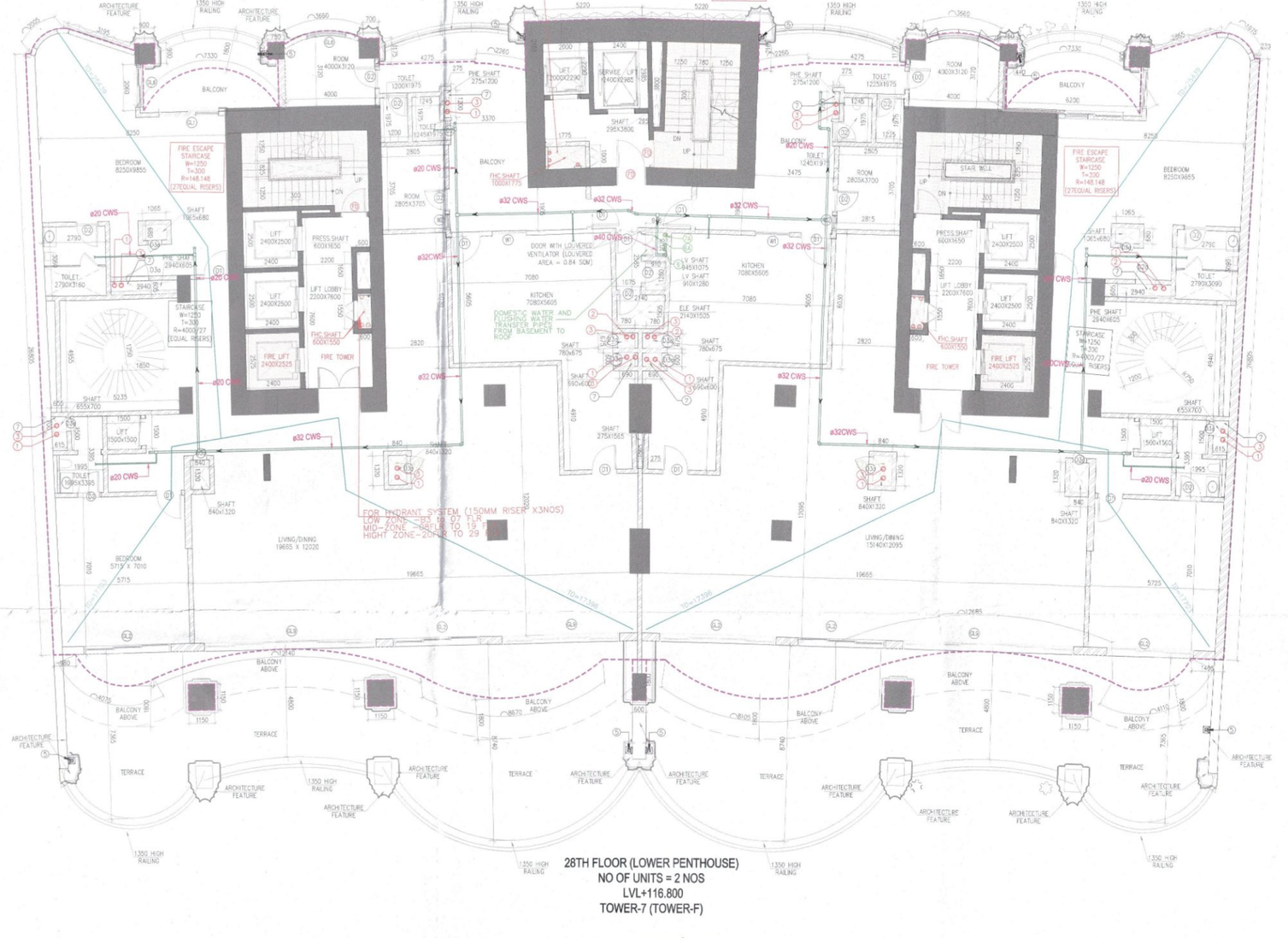
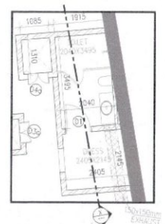
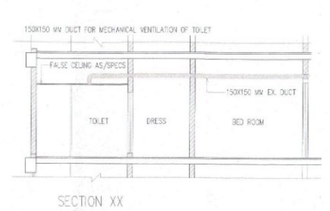


28TH FLOOR (LOWER PENTHOUSE)
NO OF UNITS = 2 NOS
LVL+116.800
TOWER-7 (TOWER-F)

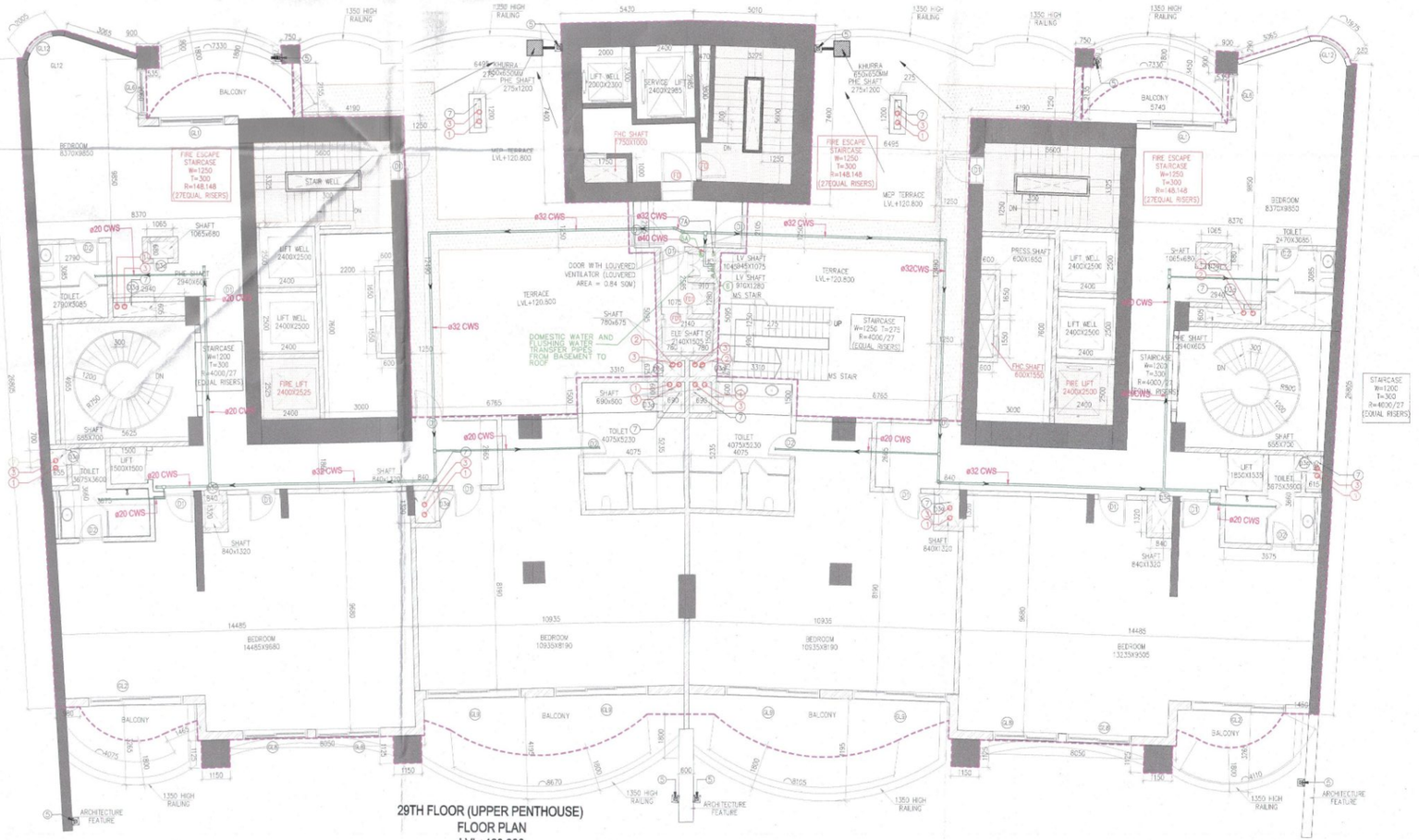


DETAIL FOR
MECHANICAL VENTILATION OF TOILET AREA



SECTION XX

SR No.	Location	SELECTED EXHAUST FAN (Manufacturer)	FAN SIZE (In mm)	DEVIALET DUCT SIZE (In mm)
1	TOTAL MECHANICAL VENTILATION TOWER	NO 1 2	450	450 X 150 (for cassette mounted fan) 700x250 (1-150) x 150



29TH FLOOR (UPPER PENTHOUSE)
FLOOR PLAN
LVL+120.800
TOWER-7 (TOWER-F)

AREA CALCULATION OF LOWER PENT HOUSE (TOWER-F)										
GROSS -D										
s2	2	X	2.940		X	5.605	=	3.187	SQM
s3	2	X	1.365		X	0.860	=	1.448	SQM
s3a	2	X	2.400		X	2.500	=	12.000	SQM
s4	2	X	2.400		X	2.625	=	12.120	SQM
s5	2	X	2.400		X	2.500	=	12.000	SQM
s6	2	X	0.868		X	1.500	=	1.955	SQM
s6a	2	X	0.840		X	1.320	=	2.218	SQM
s7	2	X	0.840		X	1.320	=	2.218	SQM
s8	2	X	0.800		X	1.500	=	1.800	SQM
s9	2	X	0.800		X	1.650	=	1.980	SQM
s10	2	X	0.275		X	1.200	=	0.660	SQM
s11	1	X	1.775		X	1.000	=	1.775	SQM
s12	1	X	2.500		X	2.300	=	5.750	SQM
s13	1	X	2.400		X	3.000	=	7.200	SQM
S14	0.5	X	0.945	+ 0.915	X	1.875	=	1.620	SQM
S14A	0.5	X	0.505	+ 0.395	X	3.805	=	1.522	SQM
s15	0.5	X	1.395	+ 1.380	X	0.910	=	1.176	SQM
s16	0.5	X	2.140	+ 2.065	X	1.505	=	1.157	SQM
s17	2	X	0.780		X	1.500	=	2.340	SQM
s18	2	X	0.860		X	1.500	=	2.580	SQM
s19	2	X	2.100		X	2.000	=	8.400	SQM
s20	2	X	1.050		X	2.000	=	4.200	SQM
s21	2	X	1.500		X	2.000	=	12.000	SQM
s22	2	X	1.500		X	2.000	=	12.000	SQM
s23	2	X	1.500		X	1.500	=	4.500	SQM
					TOTAL	=		74.839	SQM

GROSS -F									
S71	2	X	5.600		X	3.325	=	37.240	SQM
S72	2	X	1.525		X	0.325	=	0.991	SQM
S73	1	X	3.275		X	5.600	=	18.340	SQM
S74	0.5	X	0.485	+ 0.395	X	1.600	=	0.704	SQM
					TOTAL	=		57.275	SQM

TOTAL BUILT UP AREA OF LOWER PENT HOUSE	=	GROSS - 1	=	GROSS -F	
	GROSS -2 =	1351.158	+	57.275	
	=	1408.433	SQM		
NON FAR AREA OF LOWER PENT HOUSE (TOWER-7	=	GROSS - 2	-	GROSS - 1	
	=	1408.433	-	1351.158	
	GROSS -3 =	57.275	SQM		

AREA CALCULATION OF LOWER PENT HOUSE(TOWER-7)											
GROSS-A											
NO	A		B		C			s	AREA OF s (S1,S2,S3,S4,S5,S6)		Area
1	2.865	+	2.165	+	4.640	/	2	=	4.8475	5.189	2.276 SQM
2	0.710	+	4.670	+	5.265	/	2	=	5.4225	2.224	1.491 SQM
3	2.060	+	5.650	+	5.265	/	2	=	6.5975	29.360	5.353 SQM
4	5.650	+	26.805	+	24.505	/	2	=	28.625	498.676	69.100 SQM
5	0.960	+	24.505	+	24.435	/	2	=	25.005	146.364	11.340 SQM
6	3.640	+	24.435	+	25.360	/	2	=	26.7175	1910.448	43.700 SQM
7	6.000	+	25.360	+	26.985	/	2	=	28.715	5767.915	31.142 SQM
8	0.700	+	1.175	+	3.365	/	2	=	1.62	0.169	0.411 SQM
9	1.365	+	3.365	+	4.315	/	2	=	4.0925	4.473	2.115 SQM
10	2.805	+	4.805	+	4.315	/	2	=	5.9875	36.003	6.008 SQM
10a	0.720	+	2.740	+	2.805	/	2	=	2.8325	2.114	0.539 SQM
10b	0.440	+	0.720	+	0.990	/	2	=	1.075	0.021	0.144 SQM
10c	0.135	+	1.060	+	0.990	/	2	=	1.0775	0.902	0.540 SQM
10d	0.750	+	1.060	+	0.710	/	2	=	1.28	0.079	0.281 SQM
11	4.805	+	4.275	+	8.955	/	2	=	8.5425	10.746	3.974 SQM
12	2.250	+	8.955	+	11.080	/	2	=	11.145	13.020	3.009 SQM
13	2.075	+	4.275	+	8.275	/	2	=	8.5125	0.026	0.160 SQM
14	11.085	+	26.965	+	21.690	/	2	=	34.42	18320.097	135.352 SQM
15	11.795	+	31.590	+	27.340	/	2	=	45.4125	20132.360	138.532 SQM
16	8.098	+	27.340	+	26.475	/	2	=	30.955	11460.230	107.052 SQM
17	2.185	+	5.220	+	5.630	/	2	=	6.5175	31.590	5.691 SQM
18	5.220	+	5.660	+	10.660	/	2	=	10.735	40.642	6.375 SQM
19	2.185	+	10.600	+	10.315	/	2	=	11.54	126.078	11.161 SQM
20	10.315	+	26.475	+	27.095	/	2	=	31.9425	10306.720	130.313 SQM
21	2.255	+	27.095	+	28.025	/	2	=	28.665	746.747	26.209 SQM
22	2.765	+	28.025	+	27.260	/	2	=	29.0275	1345.574	36.701 SQM
23	8.950	+	27.260	+	28.790	/	2	=	32.4975	14860.210	122.005 SQM
24	9.050	+	4.855	+	4.275	/	2	=	9.04	16.224	4.028 SQM
25	3.075	+	4.275	+	4.275	/	2	=	4.1725	0.026	0.160 SQM
26	2.140	+	4.525	+	4.655	/	2	=	5.76	23.305	4.828 SQM
27	0.720	+	4.315	+	4.525	/	2	=	4.79	2.301	1.517 SQM
28	1.365	+	3.505	+	4.315	/	2	=	4.5925	4.473	2.115 SQM
29	0.700	+	1.365	+	1.175	/	2	=	1.62	0.169	0.411 SQM
30	0.440	+	0.720	+	0.990	/	2	=	1.075	0.021	0.144 SQM
31	0.135	+	0.990	+	1.060	/	2	=	1.0775	0.902	0.540 SQM
32	0.750	+	0.750	+	1.060	/	2	=	1.28	0.079	0.281 SQM
33	7.230	+	28.790	+	28.630	/	2	=	31.525	10108.532	180.548 SQM
34	12.365	+	26.635	+	25.960	/	2	=	32.43	24199.008	156.180 SQM
35	8.035	+	25.960	+	25.360	/	2	=	28.6625	4761.676	76.140 SQM
36	0.950	+	0.990	+	1.275	/	2	=	1.5375	0.164	0.402 SQM
37	0.290	+	1.275	+	1.060	/	2	=	1.5275	0.017	0.131 SQM
37a	0.535	+	0.710	+	1.060	/	2	=	1.1475	0.026	0.162 SQM
38	0.710	+	2.060	+	2.695	/	2	=	2.7325	0.139	0.373 SQM
39	2.695	+	25.360	+	28.025	/	2	=	28.045	19.389	4.369 SQM
40	3.705	+	28.025	+	28.960	/	2	=	29.365	2583.137	48.797 SQM
41	4.645	+	26.870	+	26.960	/	2	=	29.2525	3803.181	62.291 SQM
42	4.645	+	2.185	+	2.685	/	2	=	4.5475	5.181	3.216 SQM
43	1.400	+	26.805	+	26.870	/	2	=	27.64	304.440	16.827 SQM
44	0.230	+	26.805	+	26.805	/	2	=	26.52	9.502	3.083 SQM
						TOTAL	=				1465.321 SQM

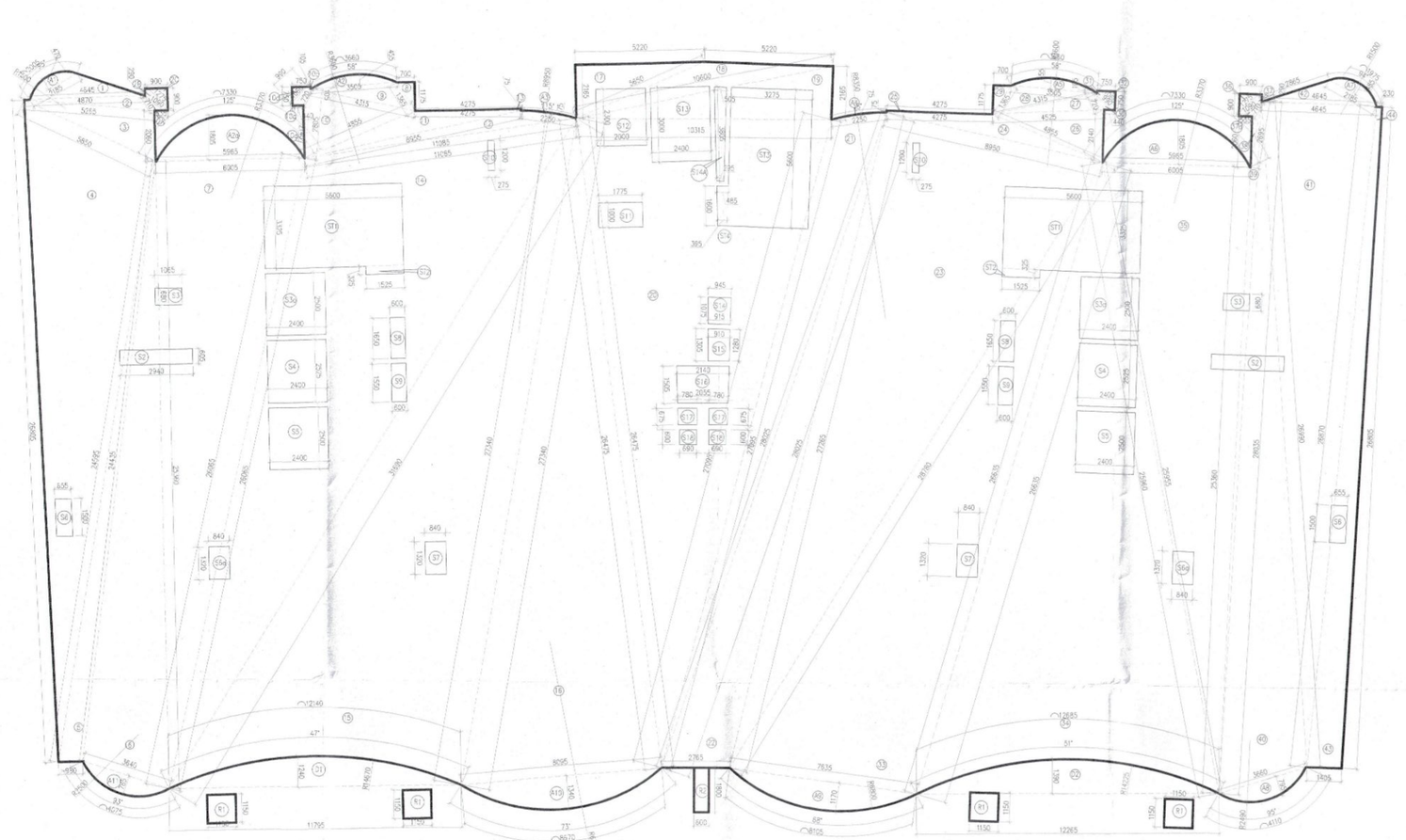
GROSS - C									
R1	4	X	1.550		X	2.150	=	3.290	SQM
R2	1	X	0.600		X	1.800	=	1.080	SQM
					TOTAL			6.370	

AREA CALCULATION OF UPPER PENT HOUSE (TOWER-F)											
GROSS-A											
NO	A		B		C			s	AREA OF s (S1,S2,S3,S4,S5,S6)		Area
1	3.965	+	4.645	+	2.050	/	2	=	4.88	5.890	2.427 SQM
2	0.710	+	4.645	+	5.040	/	2	=	5.5075	2.883	1.425 SQM
3	0.965	+	0.710	+	1.545	/	2	=	1.15	1.107	0.127 SQM
4	0.940	+	1.940	+	0.390	/	2	=	1.6975	0.017	0.150 SQM
5	0.555	+	3.005	+	1.545	/	2	=	1.24	3.059	0.241 SQM
6	0.940	+	5.653	+	2.240	/	2	=	6.075	28.826	1.160 SQM
7	0.283	+	5.653	+	5.653	/	2	=	5.885	0.157	0.320 SQM
8	1.952	+	24.595	+	38.800	/	2	=	38.625	4761.676	59.130 SQM
9	24.595	+	24.435	+	5.940	/	2	=	25.005	140.334	11.649 SQM
10	2.533	+	24.440	+	24.435	/	2	=	24.4525	6.531	2.281 SQM
11	5.885	+	24.440	+	25.875	/	2	=	26.9	1234.055	72.128 SQM
12	6.885	+	25.875	+	25.390	/	2	=	26.58	1198.328	81.272 SQM
13	4.845	+	2.100	+	3.605	/	2	=	4.8075	2.952	1.858 SQM
14	0.070	+	25.390	+	25.390	/	2	=	25.23	0.026	0.158 SQM
15	0.940	+	25.390	+	25.390	/	2	=	25.4025	0.132	0.257 SQM
16	1.040	+	25.805	+	25.340	/	2	=	25.525	323.549	18.103 SQM
17	1.940	+	1.935	+	3.625	/	2	=	3.8525	0.026	0.158 SQM
18	4.160	+	25.655	+	26.750	/	2	=	26.3075	2491.691	63.802 SQM
20	12.640	+	1.275	+	26.750	/	2	=	27.25	2438.869	49.365 SQM
21	8.675	+	12.275	+	12.445	/	2	=	12.8625	0.157	0.320 SQM
22	8.675	+	8.050	+	12.445	/	2	=	12.3625	0.131	0.158 SQM
23	6.765	+	14.005	+	12.445	/	2	=	16.6525	1711.783	42.063 SQM
24	14.425	+	14.005	+	1.185	/	2	=	14.34	35.148	8.123 SQM
25	6.095	+	14.025	+	12.035	/	2	=	17.0175	2084.052	52.962 SQM
26	6.845	+	12.035	+	12.435	/	2	=	17.9425	3250.074	53.325 SQM
27	3.510	+	3.605	+	1.530	/	2	=	4.2325	6.963	2.462 SQM
28	5.945	+	2.485	+	3.605	/	2	=	6.0175	3.763	1.624 SQM
29	6.995	+	3.605	+	5.945	/	2	=	9.2875	0.126	0.164 SQM
30	3.510	+	1.960	+	3.605	/	2	=	4.2325	6.963	2.462 SQM
31	2.765	+	12.735	+	15.735	/	2	=	16.925	268.493	37.012 SQM
32	7.665	+	12.735	+	13.265	/	2	=	21.4125	2126.367	49.239 SQM
33	2.265	+	13.965	+	13.950	/	2	=	18.625	287.708	15.155 SQM
34	6.765	+	13.335	+	13.405	/	2	=	18.625	1196.547	41.663 SQM
35	1.925	+	13.135	+	13.335	/	2	=	15.4125	96.602	8.993 SQM
42	1.350	+	1.275	+	1.530	/	2	=	1.9125	0.241	0.401 SQM
43	27.320	+	10.135	+	16.335	/	2	=	29.8175	5719.264	73.733 SQM
46	0.995	+	27.335	+	25.940	/	2	=	33.72	1615.762	102.256 SQM
47	6.065	+	2.030	+	6.672	/	2	=	6.4	7.272	2.667 SQM
48	2.945	+	26.275	+	26.955	/	2	=	29.5875	170.552	13.402 SQM
49	4.915	+	26.955	+	25.940	/	2	=	29.5875	1605.218	28.272 SQM
49A	0.995	+	25.940	+	25.940	/	2	=	25.155	0.141	0.376 SQM
50	3.660	+	27.870	+	26.275	/	2	=	30.4525	2321.546	48.162 SQM
51	2.060	+	27.870	+	26.975	/	2	=	29.9875	600.636	24.513 SQM
52	2.530	+	26.275	+	26.955	/	2	=	29.595	9.937	3.089 SQM
53	1.400	+	22.955	+	25.955	/	2	=	27.57	277.336	19.429 SQM
54	2.995	+	2.640	+	4.915	/	2	=	5.5075	11.685	3.059 SQM
55	0.710	+	3.005	+	3.840	/	2	=	3.3725	0.482	0.694 SQM
56	0.555	+	1.050	+	1.710	/	2	=	1.1475	0.093	0.173 SQM
57	0.900	+	1.090	+	2.945	/	2	=	1.4975	0.164	0.402 SQM
58	0.900	+	2.945	+	3.090	/	2	=	1.0875	0.017	0.131 SQM
59	4.900	+	13.170	+	16.035	/	2	=	17.0325	1527.459	10.962 SQM
60	4.100	+	12.430	+	13.170	/	2	=	14.825	984.698	26.727 SQM
61	0.110	+	3.335	+	5.300	/	2	=	6.3025	0.120	0.345 SQM
						TOTAL	=				1192.848 SQM

STAIRCASE AREA									
GROSS -F									
S71	2	X	5.600		X	3.325	=	37.240	SQM
S72	2	X	1.525		X	0.325	=	0.991	SQM
S73	1	X	3.275		X	5.600	=	18.340	SQM
S74	0.5	X	0.485	+ 0.395	X	1.600	=	0.704	SQM
					TOTAL	=		57.275	SQM

TOTAL BUILT UP AREA OF UPPER PENT HOUSE	=	GROSS - 1	=	GROSS -F	
	GROSS -2 =	1393.639	+	57.275	
	=	1451.214	SQM		
NON FAR AREA OF UPPER PENT HOUSE (TOWER-F)	=	GROSS - 2	-	GROSS - 1	
	=	1451.214	-	1393.639	
	GROSS -3 =	57.275	SQM		

ADDITIONAL AREA									
GROSS - C1									
14A	1	X	0.300		X	2.155	=	0.646	SQM
14B	1	X	0.760		X	0.756	=	0.583	SQM
16	1	X	1.150		X	1.125	=	1.294	SQM
37	1	X	0.600		X	1.800	=	1.080	SQM
45	1	X	1.150		X	1.125	=	1.294	SQM
46	1	X	1.150		X	1.125	=	1.294	SQM
23	1	X	1.100		X	1.125	=	1.294	SQM
32	0.5	X	2.705+2.505		X	5.085	=	13.290	SQM
33	0.5	X	4.900+4.805		X	2.115	=	10.316	SQM
34	0.5	X	5.010+5.220		X	7.400	=	37.851	SQM
35	0.5	X	5.010+5.220		X	7.400	=	37.851	SQM
60	1	X	0.315		X	2.135	=	0.673	SQM
61	1	X	0.750		X	0.750	=	0.563	SQM
					TOTAL	=		108.028	SQM



LOWER PENT HOUSE
TOWER-7 (TOWER-F)

TOTAL FAR AREA OF LOWER PENT HOUSE (TOWER-7)	=	GROSS - A	+	GROSS - B	+	GROSS - C	-	GROSS - D	-	GROSS - E	-	GROSS - F
	=	1465.321	+	36.703	+	6.370	-	74.839	-	20.322	-	57.275
	GROSS -1 =	1351.158	SQM									

| ADDITIONAL AREA CALCULATION OF TOWER-7 | | | | | | | | | | |