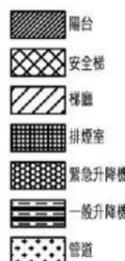
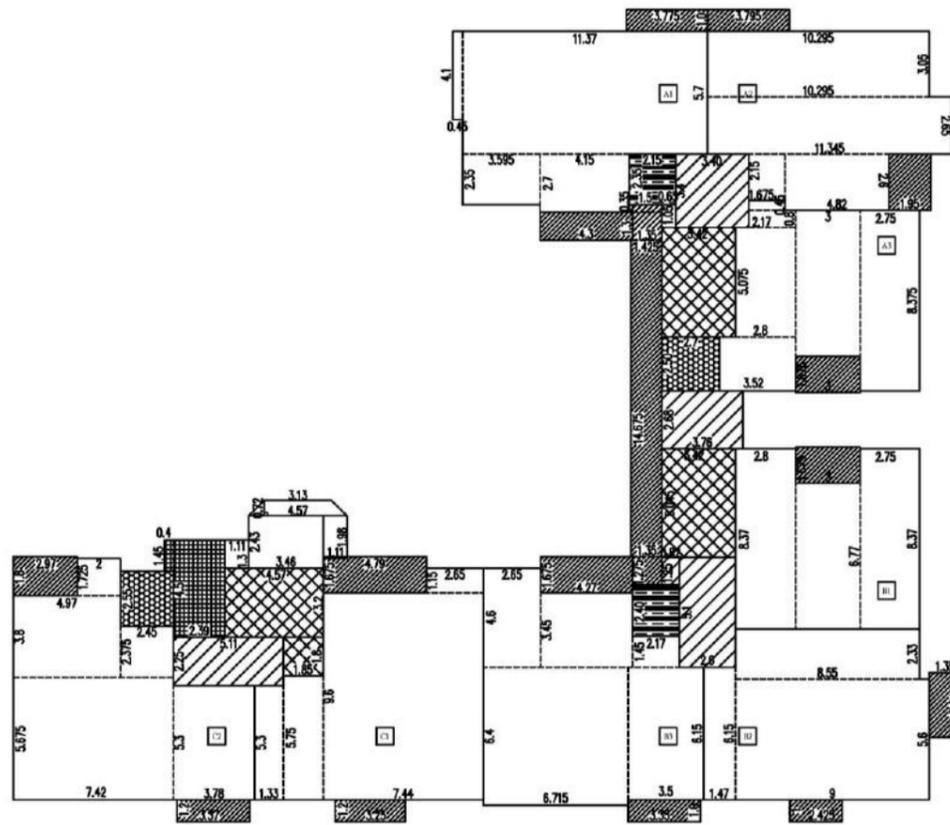


圖11-41 二十層平面圖(S=1/300)



一、二十層 各戶 樓地板面積計算

室內面積		
A1	4.1x0.45+3.595x2.35+5.7x11.37+4.15x2.7	= 86.31㎡
A2	10.295x3.05+11.345x2.65+1.675x2.15+2.6x4.82	= 77.60㎡
A3	0.8x2.17+2.8x5.075+2.5x3.52+6.775x3+8.375x2.75	= 68.86㎡
	+0.45x1.675	
B1	8.37x2.8+6.77x3+2.75x8.37	= 66.77㎡
B2	6.15x1.47+8.55x2.33+5.6x9	= 79.36㎡
B3	4.6x2.65+4.27x3.45+6.715x6.4+1.45x2.17+3.5x6.15	= 94.57㎡
C1	1.85x5.75+5.3x1.33+7.44x9.6+1.15x2.65	= 92.16㎡
C2	2x1.725+3.8x4.97+2.45x2.375+7.42x5.675+3.78x5.3	= 90.30㎡
小計:		= 655.93㎡

陽台面積		
A1	1.0x3.775+4.3x1.3	= 9.37㎡
A2	3.795x1.0+1.95x2.6	= 8.87㎡
A3	3x1.675	= 5.03㎡
B1	3x1.675	= 5.03㎡
B2	2.425x1+3.0x1.35	= 6.48㎡
B3	4.27x1.675	= 7.15㎡
C1	3.68x1.675+1.11x1.6+3.38x1.0	= 11.32㎡
C2	2.97x1.8+1.0x3.35	= 8.70㎡
A,B樓	0.35x1.5+1.35x1.3+1.425x1.675+1.35x1.275	= 24.91㎡
小計:		= 86.86㎡

樓梯面積計算		
A樓	0.65x1.05+3.4x3.4+3.76x2.68	= 22.32㎡
B樓	0.82x1.25+5.1x2.6	= 14.29㎡
C樓	2.25x5.11	= 11.50㎡
小計:		= 48.11㎡

樓梯不足2M面積計算		
A樓	0.65x1.05	= 0.68㎡
B樓	0.82x1.2	= 1.03㎡
小計:		= 1.71㎡

樓梯面積計算		
A樓	5.075x3.42	= 17.36㎡
B樓	5.045x3.42	= 17.25㎡
C樓	1.11x1.3+2.43x3.46+(4.57+3.13)x0.72/2	= 32.77㎡
	+1.11x1.98+4.57x3.2+1.8x1.85	= 67.38㎡
小計:		= 67.38㎡

升降機面積計算		
A樓	2.35x2.15	= 5.05㎡
B樓	2.4x2.17	= 5.21㎡
小計:		= 10.26㎡

緊急升降機面積計算		
A,B樓	2.7x2.5	= 6.75㎡
C樓	2.45x2.55	= 6.25㎡
小計:		= 13㎡

排煙室面積計算		
C樓	1.45x2.79+2.39x3.05	= 11.34㎡
小計:		= 11.34㎡

設備間面積計算		
A,B樓	0.55x1.65x2	= 1.82㎡
小計:		= 1.82㎡

二、面積計算檢討

樓地板面積檢討	655.93+48.11+67.38+10.26+13+11.34+1.82 = 807.84㎡
陽台免計容積面積檢討	86.86㎡ > 807.84x10%=80.78㎡
	86.86-80.78=6.08㎡(計入容積總量)
樓梯免計容積面積檢討	48.11-1.71=46.40㎡ < 807.84x10%=80.78㎡ ...OK
陽台+樓梯免計容積面積檢討	80.78+46.40=127.18㎡ > 807.84x15%=121.18㎡
	127.18-121.18=6.00㎡(計入容積總量)
設備間面積檢討	67.38+13+11.34+1.82=93.54㎡
實際容積樓地板面積檢討	(陽台總計0%部分)
	813.92-46.40-93.54+6.00+6.08=686.06㎡
	(樓梯) (設備間) (陽台+樓梯總計5%部分)

三、當層戶數檢討 8戶

四、緊急升降機設置檢討

本樓A,B,C樓為21層,高層7.45M,標準層9層,高層7.65M,標準層,並設置三層緊急升降機,樓梯總力十七人,樓梯每分鐘0.05公尺, A,B樓(11~21層) - 設置緊急升降機 (86.31+79.95+68.11+66.77+79.85+94.57)x11=5231.16 > 500㎡

C樓(11~21層) - 設置緊急升降機 (92.16+88.77)x11=1990.23㎡ > 500㎡

D樓(11~19層) - 設置緊急升降機 (96.98+101.87)x3+(96.98+91.70)x6=1728.63㎡ > 500㎡

E樓(11~13層) - 免設置 (79.21+79.95)x3=477.48㎡ < 500㎡

F樓(11~13層) - 免設置 (67.42+67.13)x3=403.85㎡ < 500㎡

五、排煙室面積檢討

A,B樓 3.76x2.68=10.08㎡ > 10.00㎡...OK

C樓 4.5x2.39+1.45x0.4=11.34㎡ > 10.00㎡...OK

六、特別安全梯面積檢討

A,B樓 (17.36+17.25+10.08)=44.69㎡

> (86.31+79.95+68.11+66.77+79.85+94.57)x3%=14.27㎡

C樓 (31.07+11.34)=42.41㎡ > (92.16+88.77)x3%=5.43㎡

D樓 (25.51+11.65)=37.16㎡ > (89.55+83.10)x3%=5.18㎡

七、居室面積計算

居室面積		
A1	1.25x0.45+1.575x2.17+1.65x2.725	= 8.48㎡
A2	1.675x2.625+2.325x1.675	= 8.29㎡
A3	1.775x2.1+2.75x1.6	= 8.13㎡
B1	1.775x2.1+2.75x1.6	= 8.13㎡
B2	1.5x2.65+1.675x2.65	= 8.41㎡
B3	1.625x2.4+1.6x3.325	= 9.22㎡
C1	1.625x2.4+1.6x3.325	= 9.22㎡
C2	3.355x1.6+2.695x1.725	= 10.02㎡

居室面積		
A1	86.31-8.48	= 77.83㎡
A2	77.6-8.29	= 69.31㎡
A3	68.86-8.13	= 60.73㎡
B1	66.77-8.13	= 58.64㎡
B2	79.85-8.41	= 71.44㎡
B3	93.91-9.22	= 84.69㎡
C1	92.16-9.22	= 82.94㎡
C2	88.77-10.02	= 78.75㎡

八、步行距離檢討

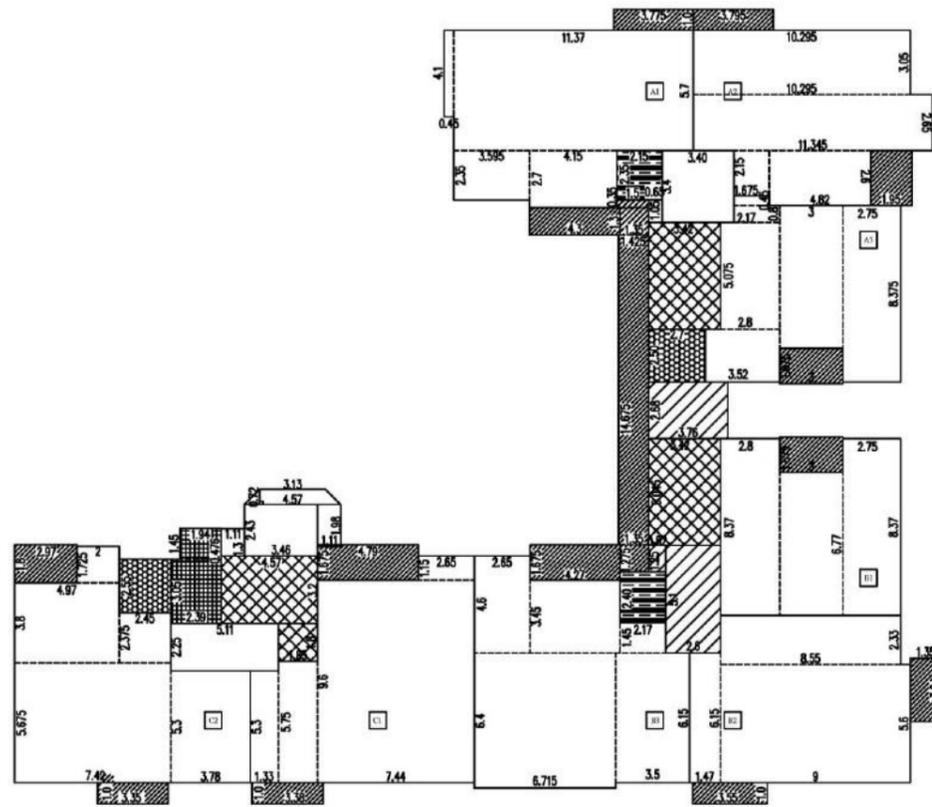
步行距離	
A1	L=4.52+7.92+2.93+1.47+0.85=17.69M < 40M
A2	L=4.61+6.23+3.45+1.47+0.85=16.61M < 40M
A3	L=3.81+3.49+4.67+3.31+1.47+0.85=17.6M < 40M
B1	L=1.97+5.98+6.85+1.02+0.75=16.57M < 40M
B2	L=4.6+6.55+5.22+1.05+1.02+0.75=19.19M < 40M
B3	L=4.63+4.69+3.45+2.61+1.05+1.02+0.75=18.2M < 40M
C1	L=4.7+6.82+1.32+1.52=14.36M < 40M
C2	L=9.61+4.4=14.01M < 40M

重複步行距離	
A1	L=4.52+7.92+2.93+1.47+0.85=17.69M < 20M
A2	L=4.61+6.23+3.45+1.47+0.85=16.61M < 20M
A3	L=4.46+2.57+4.63+2.48+1.47+0.85=16.46M < 20M
B1	L=4.57+2.96+7.69+1.02+0.75=16.99M < 20M
B2	L=4.6+6.55+5.22+1.05+1.02+0.75=19.19M < 20M
B3	L=4.63+4.69+3.45+2.61+1.05+1.02+0.75=18.2M < 20M
C1	L=4.7+6.82+1.32+1.52=14.36M < 20M
C2	L=9.61+4.4=14.01M < 20M

九、採光面積檢討

A1	2.4x2.5+1x1.75+2.2x2.5+2.8x2.5+2.8x2.5+1x1.75	=29.00㎡ > 77.83/8=9.73 ...OK
A2	2.4x2.5+2.4x2.5+2.4x2.5+0.9x1.3+1.6x1.5	=21.57㎡ > 69.31/8=8.66 ...OK
A3	2.2x2.5+2x2.5+0.84x2.5+1x2.5+1.2x1.5	=16.90㎡ > 60.73/8=7.59 ...OK
B1	2.4x2.5+1.8x2.5+0.84x2.5+1x2.5+1.4x1.5	=17.20㎡ > 58.64/8=7.33 ...OK
B2	2.4x2.5+2.4x2.5+2.2x2.5+1.4x1.8+1x1.75+1.6x1.4	=24.01㎡ > 71.44/8=8.93 ...OK
B3	2.4x2.5+2.4x2.5+2.4x2.5+2x2.5+1.6x1.5	=25.40㎡ > 85.35/8=10.67 ...OK
C1	2.4x2.5+2.4x2.5+2.4x2.5+2x2.5+1.6x1.5	=25.40㎡ > 82.94/8=10.37 ...OK
C2	2.4x2.5+2.4x2.5+2.4x2.5+1.6x1.5+1x1.75	=22.15㎡ > 78.75/8=9.84 ...OK

圖11-42 二十層面積計算圖(S=1/300)



一、二十一層 各戶 樓地板面積計算

室內面積		
A1	4.1x0.45+3.595x2.35+5.7x11.37+4.15x2.7	= 86.31#
A2	10.295x3.05+11.345x2.65+1.675x2.15+2.6x4.82	= 77.60#
A3	0.8x2.17+2.8x5.075+2.5x3.52+6.775x3+8.375x2.75+0.45x1.675	= 68.86#
B1	8.37x2.8+6.77x3+2.75x8.37	= 66.77#
B2	6.15x1.47+8.55x2.33+5.6x9	= 79.36#
B3	4.6x2.65+4.27x3.45+6.715x6.4+1.45x2.17+3.5x6.15	= 94.57#
C1	1.85x5.75+5.3x1.33+7.44x9.6+1.15x2.65	= 92.16#
C2	2x1.725+3.8x4.97+2.45x2.375+7.42x5.675+3.78x5.3	= 90.30#
小計:		= 655.93#

陽合面積		
A1	1.0x3.775+4.3x1.3	= 9.37#
A2	3.795x1.0+1.95x2.6	= 8.87#
A3	3x1.675	= 5.03#
B1	3x1.675	= 5.03#
B2	1.35x3.0+3.55x1.0	= 7.60#
B3	4.27x1.675	= 7.15#
C1	3.68x1.675+1.11x1.6+3.38x1.0	= 11.32#
C2	2.97x1.8+1.0x3.35	= 8.70#
A,B棟	0.35x1.5+1.35x1.3+1.425x14.675+1.35x1.275	= 24.91#
小計:		= 87.98#

樓梯面積計算		
A棟	0.65x1.05+3.4x3.4+3.76x2.68	= 22.32#
B棟	0.82x1.25+5.1x2.6	= 14.29#
C棟	2.25x5.11	= 11.50#
小計:		= 48.11#

樓梯不足2M面積計算		
A棟	0.65x1.05	= 0.68#
B棟	0.82x1.2	= 1.03#
小計:		= 1.71#

樓梯面積計算		
A棟	5.075x3.42	= 17.36#
B棟	5.045x3.42	= 17.25#
C棟	1.11x1.3+2.43x3.46+(4.57+3.13)x0.72/2+1.11x1.98+4.57x3.2+1.8x1.85	= 32.77#
小計:		= 67.38#

升降機面積計算		
A棟	2.35x2.15	= 5.05#
B棟	2.4x2.17	= 5.21#
小計:		= 10.26#

緊急升降機面積計算		
A,B棟	2.7x2.5	= 6.75#
C棟	2.45x2.55	= 6.25#
小計:		= 13#

排煙室面積計算		
C棟	1.45x2.79+2.39x3.05	= 11.34#
小計:		= 11.34#

設備面積計算		
A,B棟	0.55x1.65x2	= 1.82#
小計:		= 1.82#

二、面積計算檢核

樓地板面積檢核		
655.93+48.11+67.38+10.26+13+11.34+1.82	=	807.84#
陽合免計容樓面積檢核		
87.98#	>	807.84x10%=80.78#
87.98-80.78=7.20#	(計入容積樓地板面積)	
樓梯免計容樓面積檢核		
48.11-1.71=46.40#	<	807.84x10%=80.78# ...OK
陽合+樓梯免計容樓面積檢核		
80.78+46.40=127.18#	>	807.84x15%=121.18#
127.18-121.18=6.00#	(計入容積樓地板面積)	
設備面積檢核		
67.38+13+11.34+1.82=93.54#		
當量容積樓地板面積檢核	(陽合0%部分)	
815.04-46.40-93.54+6.00+7.20=688.30#		
	(容積) (總樓) (陽合+陽合總計5%部分)	

三、當層戶數檢核 8 戶

四、緊急升降機設置檢核

本棟A,B,C棟21層高7.45M, D棟19層高6.75M, 故設置三處緊急升降機, 載重能力十七人, 速度每分鐘0.5公尺
 A,B棟 (11~21層) - 設置緊急升降機
 $(86.31+79.95+68.11+66.77+79.85+94.57)x11=5231.16 > 500#$
 C棟 (11~21層) - 設置緊急升降機 $(92.16+88.77)x11=1990.23# > 500#$
 D棟 (11~19層) - 設置緊急升降機
 $(96.98+101.87)x3+(96.98+91.70)x6=1728.63# > 500#$
 E棟 (11~13層) - 無設置 $(79.21+79.95)x3=477.48# < 500#$
 F棟 (11~13層) - 無設置 $(67.42+67.13)x3=403.65 < 500#$

五、排煙室面積檢核

A,B棟 3.76x2.68=10.08# > 10.00#...OK
 C棟 4.5x2.39+1.45x0.4=11.34# > 10.00#...OK

六、特別安全梯面積檢核

A,B棟 $(17.36+17.25+10.08)=44.69#$
 $> (86.31+79.95+68.11+66.77+79.85+94.57)x3\%=14.27#$
 C棟 $(31.07+11.34)=42.41# > (92.16+88.77)x3\%=5.43#$
 D棟 $(25.51+11.65)=37.16# > (89.55+83.10)x3\%=5.18#$

七、居室面積計算

廁所面積		
A1	1.25x0.45+1.575x2.17+1.65x2.725	= 8.48#
A2	1.675x2.625+2.325x1.675	= 8.29#
A3	1.775x2.1+2.75x1.6	= 8.13#
B1	1.775x2.1+2.75x1.6	= 8.13#
B2	1.5x2.65+1.675x2.65	= 8.41#
B3	1.625x2.4+1.6x3.325	= 9.22#
C1	1.625x1.6+1.6x3.325	= 9.22#
C2	3.355x1.6+2.695x1.725	= 10.02#

居室面積		
A1	86.31-8.48	= 77.83#
A2	77.6-8.29	= 69.31#
A3	68.86-8.13	= 60.73#
B1	66.77-8.13	= 58.64#
B2	79.85-8.41	= 71.44#
B3	93.91-9.22	= 84.69#
C1	92.16-9.22	= 82.94#
C2	88.77-10.02	= 78.75#

八、步行距離檢核

步行距離	
A1	L=4.52+7.92+2.93+1.47+0.85=17.69M < 40M
A2	L=4.61+6.23+3.45+1.47+0.85=16.61M < 40M
A3	L=3.81+3.49+4.67+3.31+1.47+0.85=17.6M < 40M
B1	L=1.97+5.98+6.85+1.02+0.75=16.57M < 40M
B2	L=4.6+6.55+5.22+1.05+1.02+0.75=19.19M < 40M
B3	L=4.63+4.69+3.45+2.61+1.05+1.02+0.75=18.2M < 40M
C1	L=4.7+6.82+1.32+1.52=14.36M < 40M
C2	L=9.61+4.4=14.01M < 40M

重複步行距離	
A1	L=4.52+7.92+2.93+1.47+0.85=17.69M < 20M
A2	L=4.61+6.23+3.45+1.47+0.85=16.61M < 20M
A3	L=4.46+2.57+4.63+2.48+1.47+0.85=16.46M < 20M
B1	L=4.57+2.96+7.69+1.02+0.75=16.99M < 20M
B2	L=4.6+6.55+5.22+1.05+1.02+0.75=19.19M < 20M
B3	L=4.63+4.69+3.45+2.61+1.05+1.02+0.75=18.2M < 20M
C1	L=4.7+6.82+1.32+1.52=14.36M < 20M
C2	L=9.61+4.4=14.01M < 20M

九、採光面積檢核

A1	2.4x2.5+1x1.75+2.2x2.5+2.8x2.5+2.8x2.5+1x1.75	=29.00# > 77.83/8=9.73 ...OK
A2	2.4x2.5+2.4x2.5+2.4x2.5+0.9x1.3+1.6x1.5	=21.57# > 69.31/8=8.66 ...OK
A3	2.2x2.5+2x2.5+0.84x2.5+1x2.5+1.2x1.5	=16.90# > 60.73/8=7.59 ...OK
B1	2.4x2.5+1.8x2.5+0.84x2.5+1x2.5+1.4x1.5	=17.20# > 58.64/8=7.33 ...OK
B2	2.4x2.5+2.4x2.5+2.2x2.5+1.4x1.8+1x1.75+1.6x1.4	=24.01# > 71.44/8=8.93 ...OK
B3	2.4x2.5+2.4x2.5+2.4x2.5+2x2.5+1.6x1.5	=25.40# > 85.35/8=10.67 ...OK
C1	2.4x2.5+2.4x2.5+2.4x2.5+2x2.5+1.6x1.5	=25.40# > 82.94/8=10.37 ...OK
C2	2.4x2.5+2.4x2.5+2.4x2.5+1.6x1.5+1x1.75	=22.15# > 78.75/8=9.84 ...OK

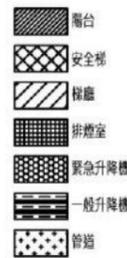


圖11-44 二十一層面積計算圖(S=1/300)

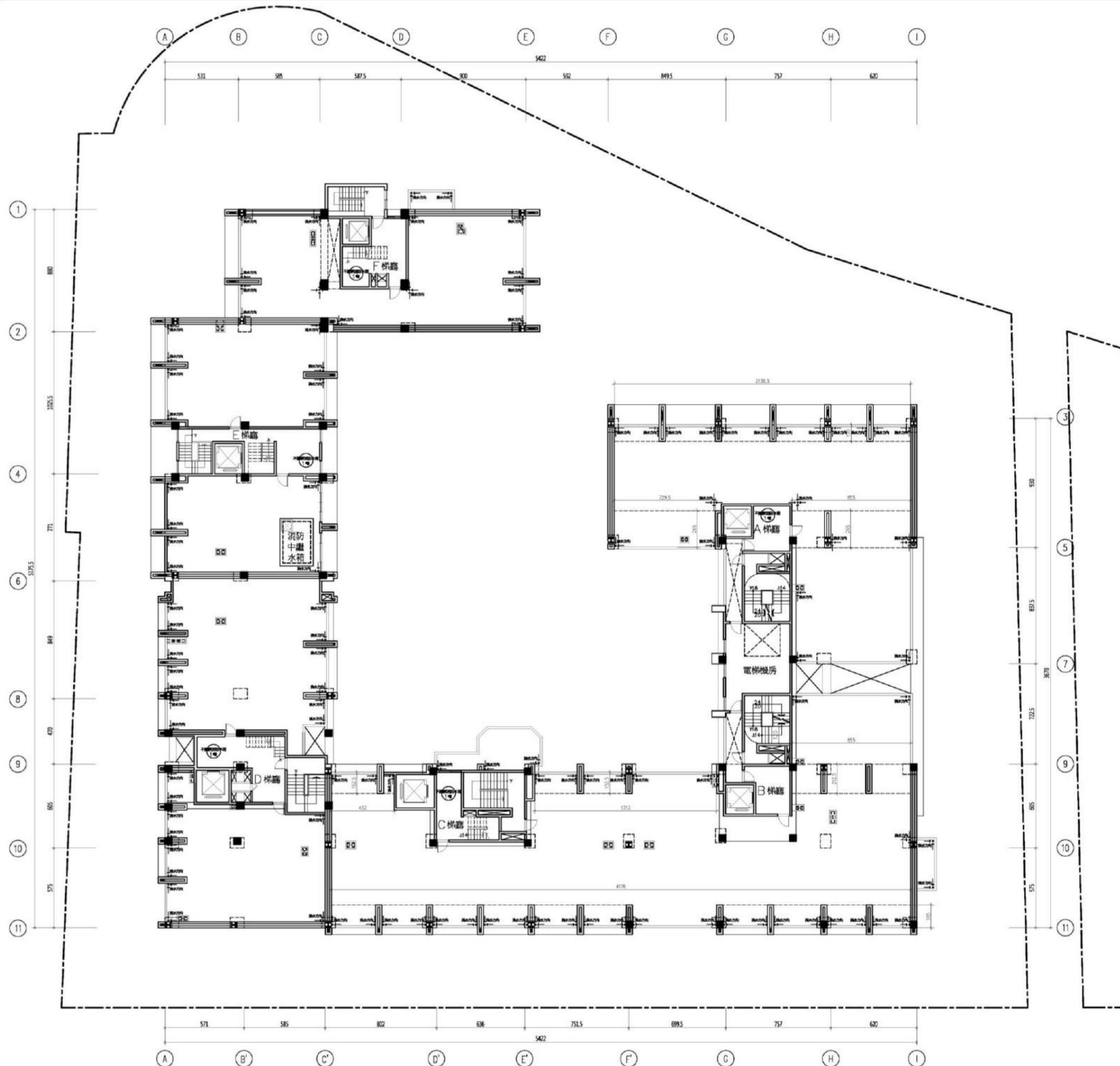


圖11-45 屋頂層平面圖(S=1/300)