

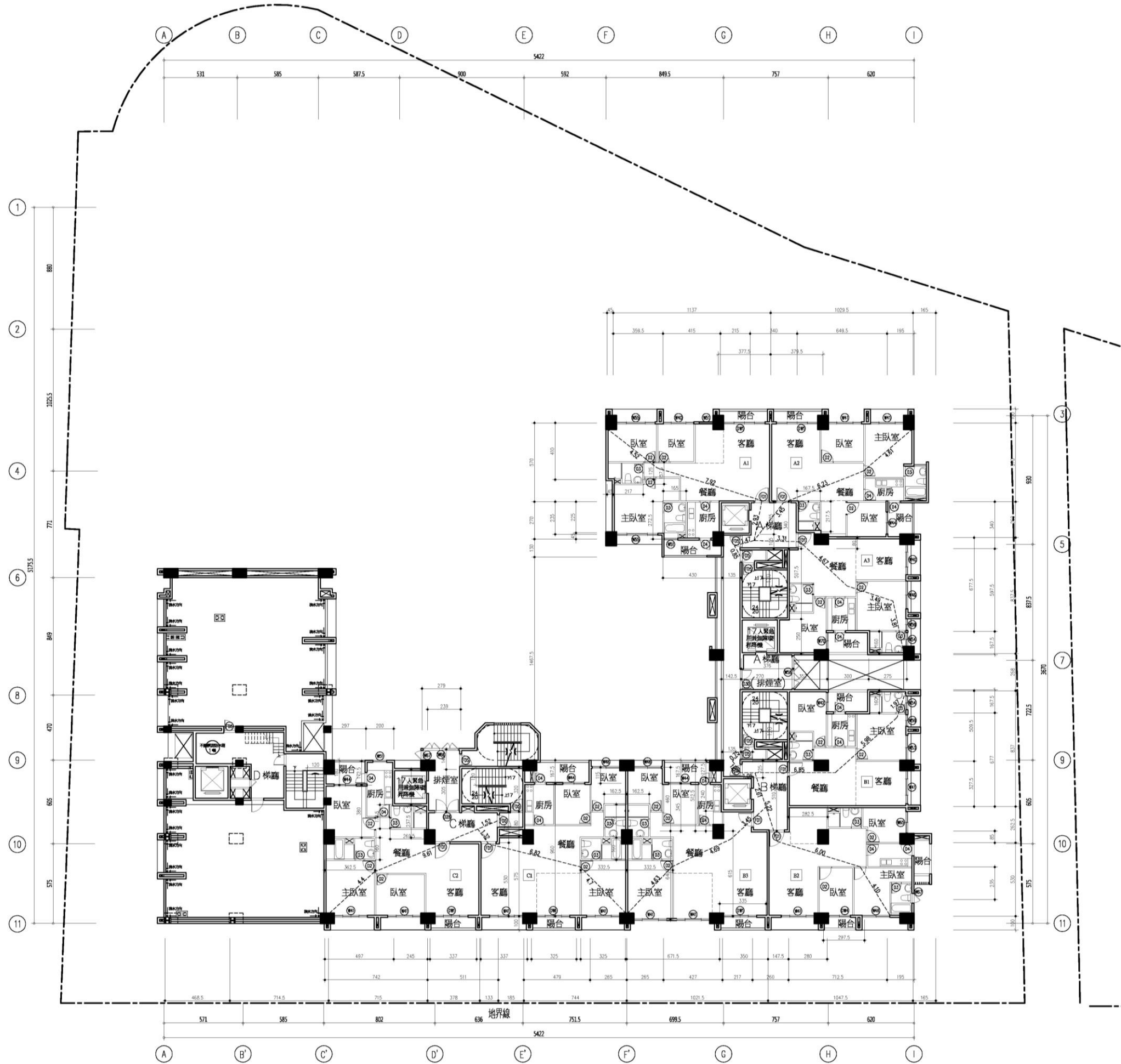
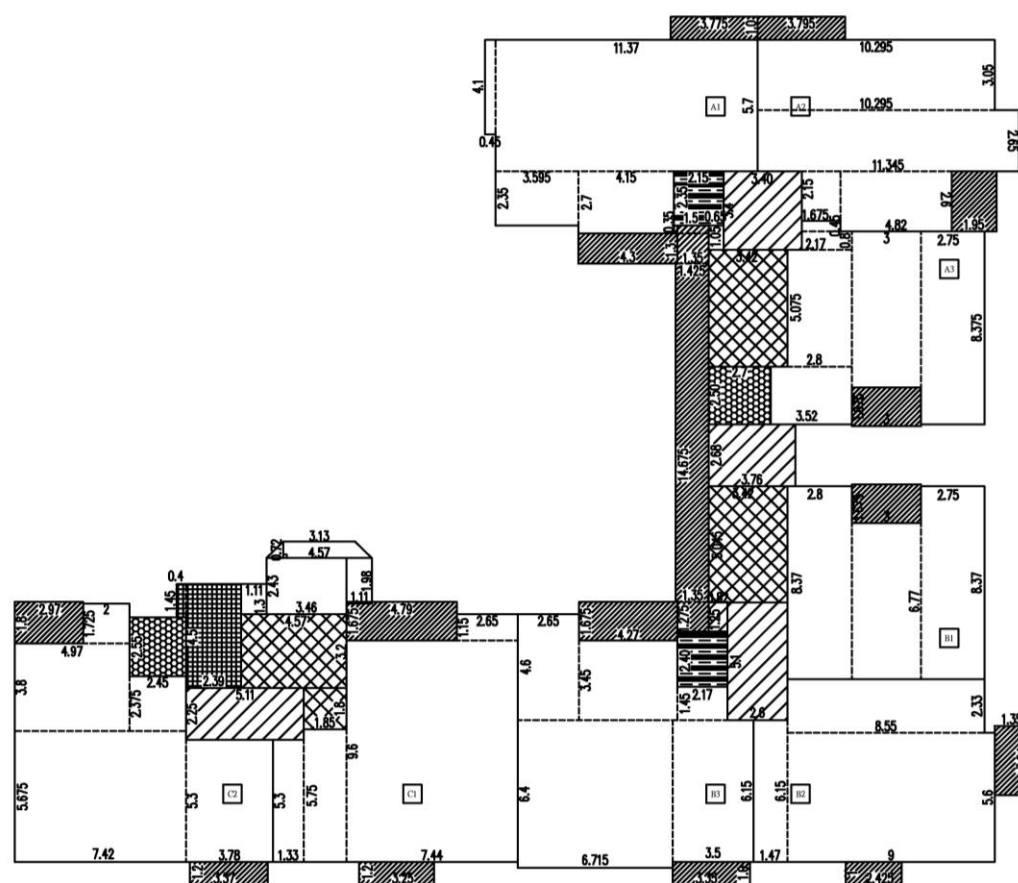


圖11-41 二十層平面圖(S=1/300)



九 採光面積検討

A1	$2.4 \times 2.5 + 1 \times 1.75 + 2.2 \times 2.5 + 2.8 \times 2.5 + 2.8 \times 2.5 + 1 \times 1.75$	=29.00	> 77.83/8=9.73	...OK
A2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 0.9 \times 1.34 + 1.6 \times 1.5$	=21.57	> 69.31/8=8.66	...OK
A3	$2.2 \times 2.5 + 2 \times 2.5 + 0.84 \times 2.5 + 1 \times 2.5 + 1.2 \times 1.5$	=16.90	> 60.73/8=7.59	...OK
B1	$2.4 \times 2.5 + 1.8 \times 2.5 + 0.84 \times 2.5 + 1 \times 2.5 + 1.4 \times 1.5$	=17.20	> 58.64/8=7.33	...OK
B2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.2 \times 2.5 + 1 \times 1.4 + 1.8 \times 1.75 + 1.6 \times 1.4$	=24.01	> 71.44/8=8.93	...OK
B3	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5$	=25.40	> 85.35/8=10.67	...OK
C1	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5$	=25.40	> 82.94/8=10.37	...OK
C2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 1.6 \times 1.5 + 1.75$	=22.15	> 78.75/8=9.84	...OK

	陽台
	安全梯
	梯廳
	排煙室
	緊急升降機
	一般升降機
	管道

二、面積計算檢討

坡地板面復檢計
 $655.93+48.11+67.38+10.26+13+11.34+1.82 = 807.84 \text{ m}^2$
 聯合允許容積面復檢計
 86.86 m^2 $> 807.84 \times 10\% = 80.78 \text{ m}^2$
 $86.86 - 80.78 = 6.08 \text{ m}^2$ (計入容積獎勵面)
 容積允許容積面復檢計
 $48.11 - 1.71 = 46.40 \text{ m}^2$ $< 807.84 \times 10\% = 80.78 \text{ m}^2$...OK
 聯合+容積面容積容積面復檢計
 $80.78 + 46.40 = 127.18 \text{ m}^2$ $> 807.84 \times 15\% = 121.18 \text{ m}^2$
 $127.18 - 121.18 = 6.00 \text{ m}^2$ (計入容積獎勵面)
 設置面復檢計
 $67.38 + 13 + 11.34 + 1.82 = 93.54 \text{ m}^2$
 實際容積樓地板面復檢計 (聯合總額0%部分)
 $813.92 - 46.40 - 93.54 + 6.00 + 6.08 = 686.06 \text{ m}^2$
 (獎勵) (設置面) (容積+聯合總額5%部分)

三 當層戶數檢討 8戸

四 緊急升降機設置檢討

本架A、B、C總重21萬，高度7.45米；D總重19萬，高度6.75米；
 油壓三缸垂直升降機，載重能力達17.1噸，速度每分鐘105公尺
 A、B樓（11~21層）——設置垂直升降機
 $(86.31+79.95+68.11+66.77+79.85+94.57) \times 11 = 5231.16 > 500\text{噸}$
 C樓（11~21層）——設置垂直升降機 $(92.16+88.77) \times 11 = 1990.23\text{噸} > 500\text{噸}$
 D樓（11~19層）——設置垂直升降機
 $(96.98+101.87) \times 3 + (96.98+91.70) \times 6 = 1728.63\text{噸} > 500\text{噸}$
 E樓（11~13層）——免設置 $(79.21+79.95) \times 3 = 477.48\text{噸} < 500\text{噸}$
 F樓（11~13層）——免設置 $(67.42+67.13) \times 3 = 403.65\text{噸} < 500\text{噸}$

五 排煙室面積檢討

C棟 $4.5 \times 2.39 + 1.45 \times 0.4 = 11.34 \text{ m}^2 > 10.00 \text{ m}^2 \dots \text{OK}$

六 特別安全梯面積檢討

A, B棟 $(17.36+17.25+10.08)=44.69\text{m}$
 $> (86.31+79.95+68.11+66.77+79.85+94.57)\times 3\% = 14.27\text{m}$
 C棟 $(31.07+11.34)=42.41\text{m}$ $> (92.16+88.77)\times 3\% = 5.43\text{m}$
 D棟 $(25.51+11.65)=37.16\text{m}$ $> (89.55+83.10)\times 3\% = 5.18\text{m}$

七 居室面積計算

扇开面积		
A1	$1.25 \times 0.45 + 1.575 \times 2.17 + 1.65 \times 2.725$	= 8.48 m ²
A2	$1.675 \times 2.625 + 2.325 \times 1.675$	= 8.29 m ²
A3	$1.775 \times 2.1 + 2.75 \times 1.6$	= 8.13 m ²
B1	$1.775 \times 2.1 + 2.75 \times 1.6$	= 8.13 m ²
B2	$1.5 \times 2.65 + 1.675 \times 2.65$	= 8.41 m ²
B3	$1.625 \times 2.4 + 1.6 \times 3.325$	= 9.22 m ²
C	$1.625 \times 2.4 + 1.6 \times 3.325$	= 9.22 m ²
C1	$3.35 \times 1.6 + 2.695 \times 1.725$	= 10.02 m ²

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 ㎡

L-42 二十層面積計算圖(S=1

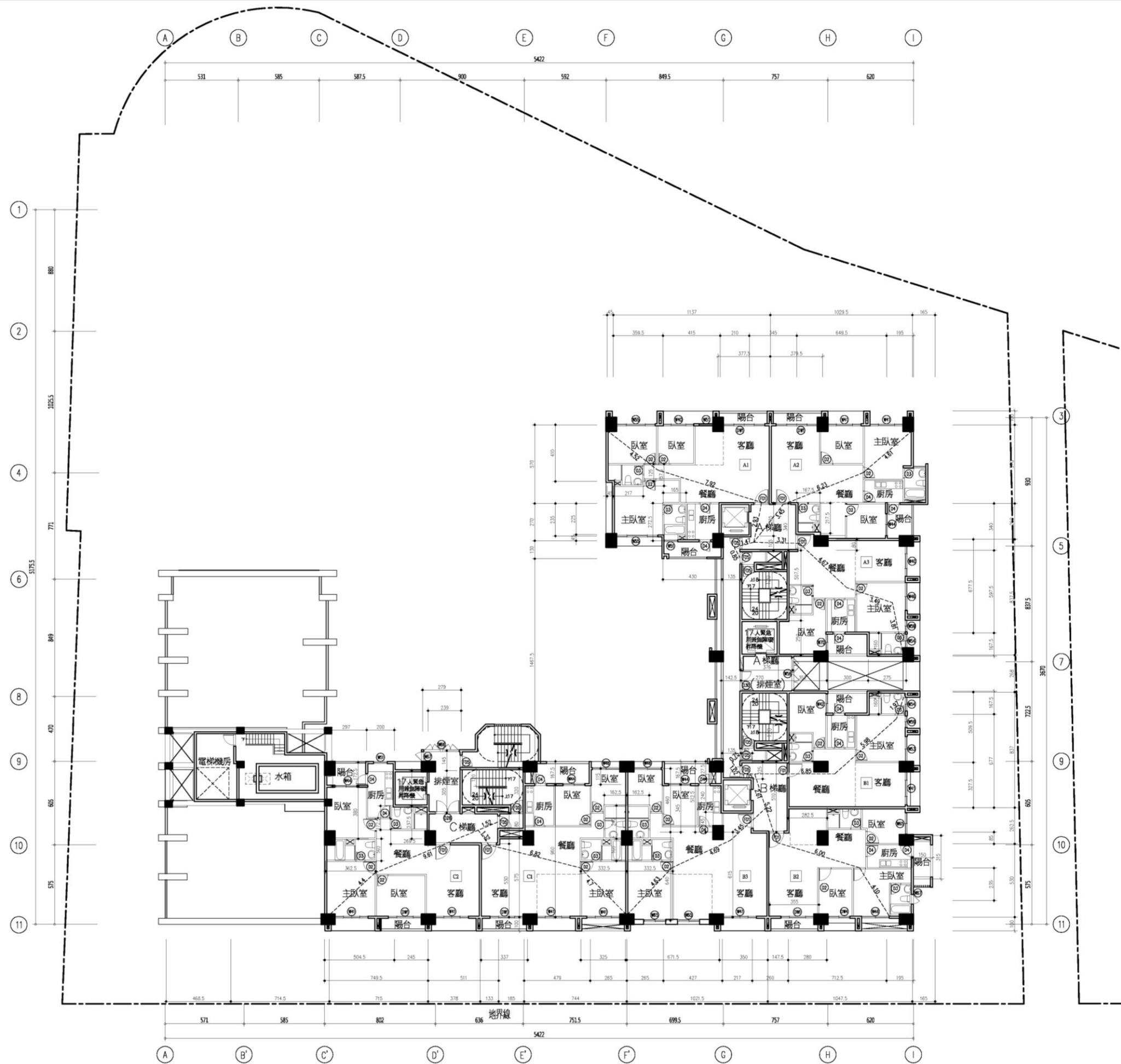
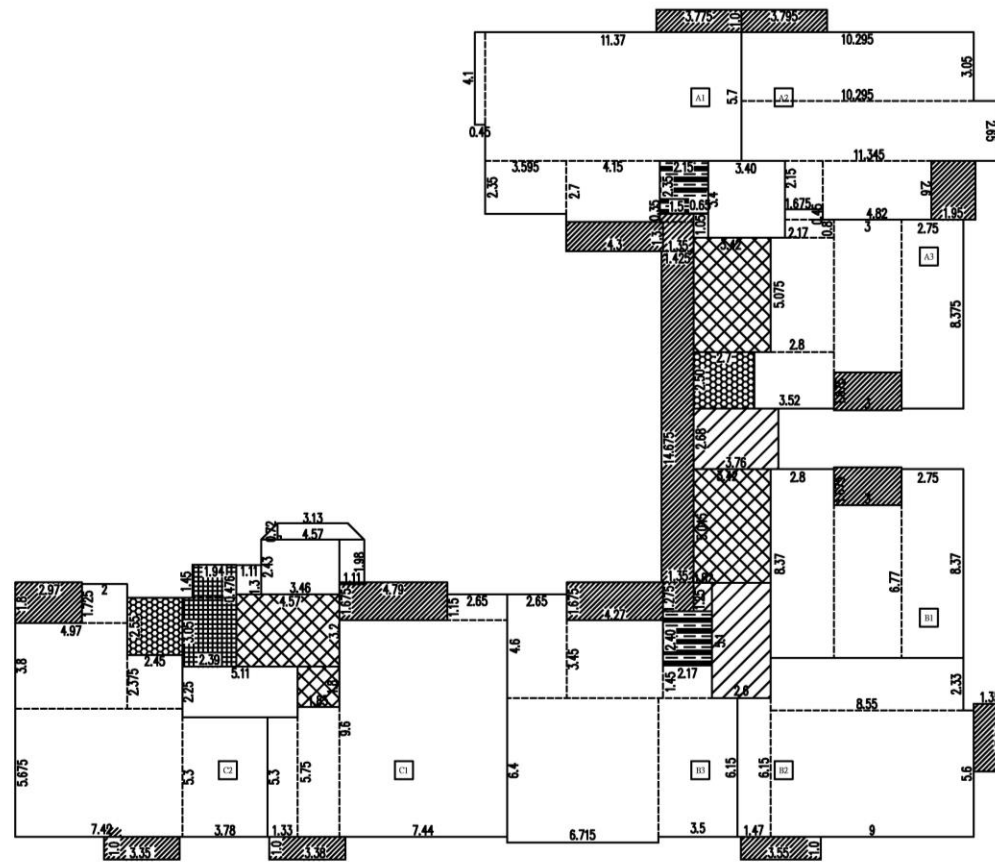


圖11-43 二十一層平面圖(S=1/300)



八、步行距離檢討

步行距離

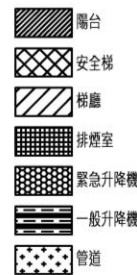
A1	$L=4.52+7.92+2.93+1.47+0.85=17.69M < 40M$
A2	$L=4.61+6.23+3.45+1.47+0.85=16.61M < 40M$
A3	$L=3.81+3.49+4.67+3.31+1.47+0.85=17.6M < 40M$
B1	$L=1.97+5.98+6.85+1.02+0.75=16.57M < 40M$
B2	$L=4.6+6.55+5.22+1.05+1.02+0.75=19.19M < 40M$
B3	$L=4.63+4.69+3.45+2.61+1.05+1.02+0.75=18.2M < 40M$
C1	$L=4.7+6.82+1.32+1.52=14.36M < 40M$
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	$2.4 \times 2.5 + 1 \times 1.75 + 2.2 \times 2.5 + 2.8 \times 2.5 + 1 \times 1.75 = 29.00m^2 > 77.83/8 = 9.73 \dots OK$
A2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 0.9 \times 1.3 + 1.6 \times 1.5 = 21.57m^2 > 69.31/8 = 8.66 \dots OK$
A3	$2.2 \times 2.5 + 2 \times 2.5 + 0.84 \times 2.5 + 1 \times 2.5 + 1.2 \times 1.5 = 16.90m^2 > 60.73/8 = 7.59 \dots OK$
B1	$2.4 \times 2.5 + 1.8 \times 2.5 + 0.84 \times 2.5 + 1 \times 2.5 + 1.4 \times 1.5 = 17.20m^2 > 58.64/8 = 7.33 \dots OK$
B2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.2 \times 2.5 + 1.4 \times 1.8 + 1 \times 1.75 + 1.6 \times 1.4 = 24.01m^2 > 71.44/8 = 8.93 \dots OK$
B3	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5 = 25.40m^2 > 85.35/8 = 10.67 \dots OK$
C1	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5 = 25.40m^2 > 82.94/8 = 10.37 \dots OK$
C2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 1.6 \times 1.5 + 1 \times 1.75 = 22.15m^2 > 78.75/8 = 9.84 \dots OK$



一、二十一層 各戶 樓地板面積計算

室內面積		
A1	$4.1 \times 0.45 + 3.595 \times 2.35 + 5.7 \times 11.37 + 4.15 \times 2.7$	$= 86.31m^2$
A2	$10.295 \times 3.05 + 11.345 \times 2.65 + 1.675 \times 2.15 + 2.6 \times 4.82$	$= 77.60m^2$
A3	$0.8 \times 2.17 + 2.8 \times 5.075 + 2.5 \times 3.52 + 6.775 \times 3 + 8.375 \times 2.75 + 0.45 \times 1.675$	$= 68.86m^2$
B1	$8.37 \times 2.8 + 6.77 \times 3 + 2.75 \times 8.37$	$= 66.77m^2$
B2	$6.15 \times 1.47 + 8.55 \times 2.33 + 5.6 \times 9$	$= 79.36m^2$
B3	$4.6 \times 2.65 + 4.27 \times 3.45 + 6.715 \times 6.4 + 1.45 \times 2.17 + 3.5 \times 6.15$	$= 94.57m^2$
C1	$1.85 \times 5.75 + 5.3 \times 1.33 + 7.44 \times 9.6 + 1.15 \times 2.65$	$= 92.16m^2$
C2	$2 \times 1.725 + 3.8 \times 4.97 + 2.45 \times 2.375 + 7.42 \times 5.675 + 3.78 \times 5.3$	$= 90.30m^2$
小計:		$= 655.93m^2$

陽台面積		
A1	$1.0 \times 3.775 + 4.3 \times 1.3$	$= 9.37m^2$
A2	$3.795 \times 1.0 + 1.95 \times 2.6$	$= 8.87m^2$
A3	3×1.675	$= 5.03m^2$
B1	3×1.675	$= 5.03m^2$
B2	$1.35 \times 3.0 + 3.55 \times 1.0$	$= 7.60m^2$
B3	4.27×1.675	$= 7.15m^2$
C1	$3.68 \times 1.675 + 1.11 \times 1.6 + 3.38 \times 1.0$	$= 11.32m^2$
C2	$2.97 \times 1.8 + 1.0 \times 3.35$	$= 8.70m^2$
A,B棟	$0.35 \times 1.5 + 1.35 \times 1.3 + 1.425 \times 14.675 + 1.35 \times 1.275$	$= 24.91m^2$
小計:		$= 87.98m^2$

梯廳面積計算		
A棟	$0.65 \times 1.05 + 3.4 \times 3.4 + 3.76 \times 2.68$	$= 22.32m^2$
B棟	$0.82 \times 1.25 + 5.1 \times 2.6$	$= 14.29m^2$
C棟	2.25×5.11	$= 11.50m^2$
小計:		$= 48.11m^2$

梯廳不足2M面積計算		
A棟	0.65×1.05	$= 0.68m^2$
B棟	0.82×1.2	$= 1.03m^2$
小計:		$= 1.71m^2$

樓梯面積計算		
A棟	5.075×3.42	$= 17.36m^2$
B棟	5.045×3.42	$= 17.25m^2$
C棟	$1.11 \times 1.3 + 2.43 \times 3.46 + (4.57 + 3.13) \times 0.72/2 + 1.11 \times 1.98 + 4.57 \times 3.2 + 1.8 \times 1.85$	$= 32.77m^2$
小計:		$= 67.38m^2$

升降機面積計算		
A棟	2.35×2.15	$= 5.05m^2$
B棟	2.4×2.17	$= 5.21m^2$
小計:		$= 10.26m^2$

緊急升降機面積計算		
A,B棟	2.7×2.5	$= 6.75m^2$
C棟	2.45×2.55	$= 6.25m^2$
小計:		$= 13m^2$

排煙室面積計算		
C棟	$1.45 \times 2.79 + 2.39 \times 3.05$	$= 11.34m^2$
小計:		$= 11.34m^2$

設備門面積計算		
A,B棟	$0.55 \times 1.65 \times 2$	$= 1.82m^2$
小計:		$= 1.82m^2$

二、面積計算檢討

樓地板面積檢討		
	$655.93 + 48.11 + 67.38 + 10.26 + 13 + 11.34 + 1.82 = 807.84m^2$	
陽台免計容積面積檢討	$87.98m^2 > 807.84 \times 10\% = 80.78m^2$	
	$87.98 - 80.78 = 7.20m^2$ (計入容積樓地板面積)	
梯廳免計容積面積檢討	$48.11 - 1.71 = 46.40m^2 < 807.84 \times 10\% = 80.78m^2 \dots OK$	
陽台+梯廳免計容積面積檢討	$80.78 + 46.40 = 127.18m^2 > 807.84 \times 15\% = 121.18m^2$	
	$127.18 - 121.18 = 6.00m^2$ (計入容積樓地板面積)	
設備門面積檢討	$67.38 + 13 + 11.34 + 1.82 = 93.54m^2$	
當層容積樓地板面積檢討	$815.04 - 46.40 - 93.54 + 6.00 + 7.20 = 688.30m^2$ (扣除) (扣除) (扣除) (陽台+陽台免計15%部分)	

三、當層戶數檢討 8戶

四、緊急升降機設置檢討

本案A,B,C棟高21層,高度74.45M;D棟高9層,高度27.65M;E棟高7層,高度22.05M;F棟高5層,高度15.05M。

設置三處緊急升降機,避難能力達十七人,速度每分鐘0.05公尺。

A,B棟 (11~21層) - 設置緊急升降機
 $(86.31 + 79.95 + 68.11 + 66.77 + 79.85 + 94.57) \times 11 = 5231.16 > 500m^2$

C棟 (11~21層) - 設置緊急升降機
 $(92.16 + 88.77) \times 11 = 1990.23m^2 > 500m^2$

D棟 (11~19層) - 設置緊急升降機
 $(96.98 + 101.87) \times 3 + (96.98 + 91.70) \times 6 = 1728.63m^2 > 500m^2$

E棟 (11~13層) - 免設置
 $(79.21 + 79.95) \times 3 = 477.48m^2 < 500m^2$

F棟 (11~13層) - 免設置
 $(67.42 + 67.13) \times 3 = 403.65m^2 < 500m^2$

五、排煙室面積檢討

A,B棟	$3.76 \times 2.68 = 10.08m^2 > 10.00m^2 \dots OK$
C棟	$4.5 \times 2.39 + 1.45 \times 0.4 = 11.34m^2 > 10.00m^2 \dots OK$

六、特別安全梯面積檢討

A,B棟	$(17.36 + 17.25 + 10.08) = 44.69m^2$
	$> (86.31 + 79.95 + 68.11 + 66.77 + 79.85 + 94.57) \times 3\% = 14.27m^2$
C棟	$(31.07 + 11.34) = 42.41m^2 > (92.16 + 88.77) \times 3\% = 5.43m^2$
D棟	$(25.51 + 11.65) = 37.16m^2 > (89.55 + 83.10) \times 3\% = 5.18m^2$

七、居室面積計算

廁所面積		
A1	$1.25 \times 0.45 + 1.575 \times 2.17 + 1.65 \times 2.725$	$= 8.48m^2$
A2	$1.675 \times 2.625 + 2.325 \times 1.675$	$= 8.29m^2$
A3	$1.775 \times 2.1 + 2.75 \times 1.6$	$= 8.13m^2$
B1	$1.775 \times 2.1 + 2.75 \times 1.6$	$= 8.13m^2$
B2	$1.5 \times 2.65 + 1.675 \times 2.65$	$= 8.41m^2$
B3	$1.625 \times 2.4 + 1.6 \times 3.325$	$= 9.22m^2$
C1	$1.625 \times 2.4 + 1.6 \times 3.325$	$= 9.22m^2$
C2	$3.355 \times 1.6 + 2.695 \times 1.725$	$= 10.02m^2$

居室面積		
A1	$86.31 - 8.48$	$= 77.83m^2$
A2	$77.6 - 8.29$	$= 69.31m^2$
A3	$68.86 - 8.13$	$= 60.73m^2$
B1	$66.77 - 8.13$	$= 58.64m^2$
B2	$79.85 - 8.41$	$= 71.44m^2$
B3	$93.91 - 9.22$	$= 84.69m^2$
C1	$92.16 - 9.22$	$= 82.94m^2$
C2	$88.77 - 10.02$	$= 78.75m^2$

圖11-44 二十一層面積計算圖(S=1/300)