

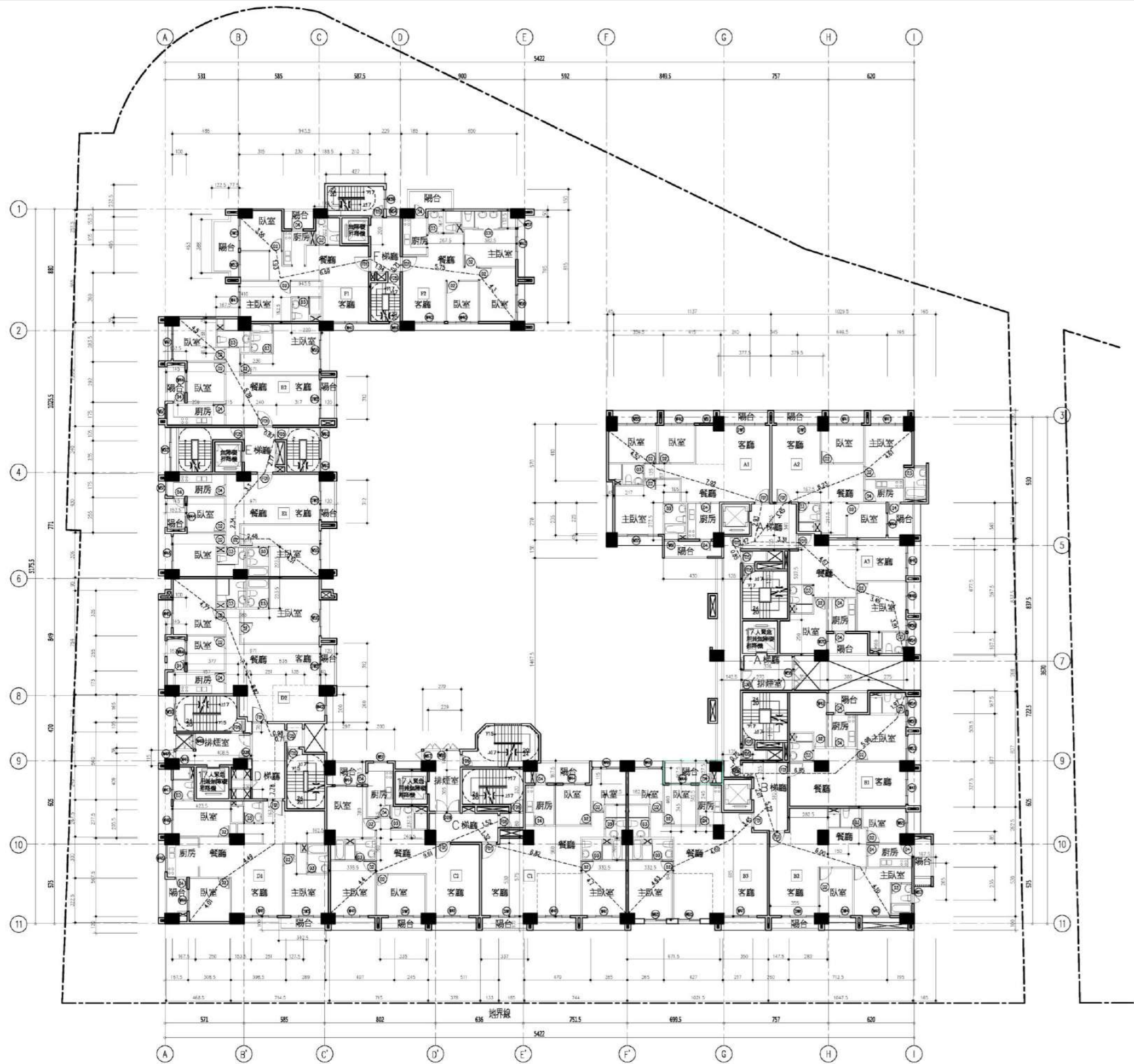


圖11-17 五層平面圖(S=1/300)

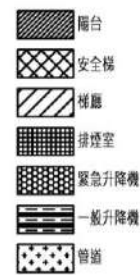


八 步行距離檢討

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	$L=4.1+6.0+5.22+1.05+1.02+0.75=18.14M < 40M$
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	$L=9.61+4.4=14.01M < 40M$
D1	$L=4.01+4.49+7.78+0.71=16.99M < 40M$
D2	$L=4.77+9.12+0.98=14.87M < 40M$
E1	$L=4.51+2.48+2.34+3.3+2.77=15.4M < 50M$
E2	$L=4.5+5.78+0.87=11.15M < 50M$
F1	$L=3.56+1.93+6.69+1.94=14.12M < 50M$
F2	$L=4.3+5.75+0.71=10.76M < 50M$
直接步行距離	
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	$L=4.1+6.0+5.22+1.05+1.02+0.75=18.14M < 20M$
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	$L=9.61+4.4=14.01M < 20M$
D1	$L=4.01+4.49+7.78+0.71=16.99M < 20M$
D2	$L=4.58+8.07+0.98=13.63M < 20M$
E1	$L=4.51+2.48+2.34+3.3=12.63M < 50M$
E2	$L=4.5+5.78=10.28M < 50M$
F1	$L=3.56+1.93+6.69+1.94=12.18M < 50M$
F2	$L=4.3+5.75+0.71=10.05M < 50M$

九 採光面積檢討

A1	$2.4 \times 2.5 + 1 \times 1.75 + 2.2 \times 2.5 + 2.8 \times 2.5 + 1 \times 1.75 = 29.00 \text{ m}^2 > 77.83/8 = 9.73 \text{ ...OK}$
A2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 0.9 \times 1.3 + 1.6 \times 1.5 = 21.57 \text{ m}^2 > 70.06/8 = 8.76 \text{ ...OK}$
A3	$2.2 \times 2.5 + 2 \times 2.5 + 0.84 \times 2.5 + 1 \times 2.5 + 1.2 \times 1.5 = 16.90 \text{ m}^2 > 60.73/8 = 7.59 \text{ ...OK}$
B1	$2.4 \times 2.5 + 1.8 \times 2.5 + 0.84 \times 2.5 + 1 \times 2.5 + 1.4 \times 1.5 = 17.20 \text{ m}^2 > 58.64/8 = 7.33 \text{ ...OK}$
B2	$2.4 \times 2.5 + 1.6 \times 2.5 + 2.0 \times 2.5 + 0.7 \times 1.75 + 1.6 \times 1.4 = 18.47 \text{ m}^2 > 71.44/8 = 8.93 \text{ ...OK}$
B3	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5 = 25.40 \text{ m}^2 > 85.35/8 = 10.67 \text{ ...OK}$
C1	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5 = 25.40 \text{ m}^2 > 82.94/8 = 10.37 \text{ ...OK}$
C2	$2.4 \times 2.5 + 2.4 \times 2.5 + 2.4 \times 2.5 + 1.6 \times 1.5 + 1 \times 1.75 = 22.15 \text{ m}^2 > 78.75/8 = 9.84 \text{ ...OK}$
D1	$2.2 \times 2.5 + 2.4 \times 2.5 + 1.6 \times 1.5 + 2 \times 1.5 + 2 \times 2.5 + 1.4 \times 2.5 = 25.40 \text{ m}^2 > 89.55/8 = 11.19 \text{ ...OK}$
D2	$1.4 \times 1.5 + 2.8 \times 2.5 + 2.6 \times 2.5 + 2 \times 1.5 + 1.6 \times 1.5 = 21.00 \text{ m}^2 > 93.27/8 = 11.66 \text{ ...OK}$
E1	$2.8 \times 2.5 + 2.8 \times 2.5 + 2 \times 2.5 + 1.6 \times 1.5 + 1 \times 1.75 = 23.15 \text{ m}^2 > 70.61/8 = 8.83 \text{ ...OK}$
E2	$2.8 \times 2.5 + 2.8 \times 2.5 + 2.4 \times 2.5 + 1.6 \times 1.5 + 1 \times 1.75 = 24.15 \text{ m}^2 > 70.96/8 = 8.87 \text{ ...OK}$
F1	$2.4 \times 2.5 + 2.4 \times 2.5 + 1.8 \times 2.5 + 2.2 \times 2.5 = 22.00 \text{ m}^2 > 59.59/8 = 7.45 \text{ ...OK}$
F2	$2.2 \times 2.5 + 2.2 \times 2.5 + 2.6 \times 2.5 + 2.2 \times 2.5 + 0.9 \times 2.5 = 25.25 \text{ m}^2 > 57.58/8 = 7.20 \text{ ...OK}$



一、五層 各戶 樓地板面積計算

室內面積	
A1	$4.1 \times 0.45 + 3.595 \times 2.35 + 5.7 \times 1.37 + 4.15 \times 2.7 = 86.31 \text{ m}^2$
A2	$3.05 \times 10.295 + 11.345 \times 2.65 + 2.15 \times 1.675 + 2.6 \times 4.82 = 77.6 \text{ m}^2$
A3	$0.8 \times 2.17 + 2.8 \times 5.075 + 2.5 \times 3.52 + 6.775 \times 3 + 8.375 \times 2.75 + 0.45 \times 1.675 = 68.86 \text{ m}^2$
B1	$8.37 \times 2.8 + 6.77 \times 3 + 2.75 \times 8.37 = 66.76 \text{ m}^2$
B2	$6.15 \times 1.47 + 8.55 \times 2.33 + 5.6 \times 9 = 79.36 \text{ m}^2$
B3	$4.6 \times 2.65 + 4.27 \times 3.45 + 6.715 \times 6.4 + 1.45 \times 2.17 + 3.5 \times 6.15 = 94.57 \text{ m}^2$
C1	$1.85 \times 5.75 + 5.3 \times 1.33 + 7.44 \times 9.6 + 1.15 \times 2.65 = 92.16 \text{ m}^2$
C2	$2 \times 1.725 + 3.8 \times 4.97 + 2.45 \times 2.375 + 7.15 \times 5.675 + 3.78 \times 5.3 = 88.77 \text{ m}^2$
D1	$1.675 \times 2.45 + 2.675 \times 4.235 + 3 \times 4.685 + 3.985 \times 2.775 + 3.225 \times 3.085 + 2.89 \times 2.055 + 7.145 \times 5.675 = 96.98 \text{ m}^2$
D2	$4.21 \times 1 + 1.73 \times 1.45 + 8.49 \times 9.71 + 0.59 \times 1.65 + 5.35 \times 2 + 2.6 \times 0.4 = 101.87 \text{ m}^2$
E1	$1.75 \times 1.45 + 4.3 \times 9.71 + 10.71 \times 3.26 = 79.21 \text{ m}^2$
E2	$2.835 \times 1 + 4.86 \times 0.35 + 7.505 \times 9.71 + 1.75 \times 1.45 = 79.95 \text{ m}^2$
F1	$2.515 \times 3.15 + 2.3 \times 1.05 + 1.885 \times 2 + 9.435 \times 5.65 = 67.42 \text{ m}^2$
F2	$7.65 \times 1.85 + 6.5 \times 8.15 = 67.13 \text{ m}^2$
小計	$= 1146.96 \text{ m}^2$

陽台面積

A1	$1.0 \times 3.775 + 4.3 \times 1.3 = 9.37 \text{ m}^2$
A2	$3.795 \times 1.0 + 1.95 \times 2.6 = 8.87 \text{ m}^2$
A3	$3 \times 1.675 = 5.03 \text{ m}^2$
B1	$3 \times 1.675 = 5.03 \text{ m}^2$
B2	$1.35 \times 3.0 + 3.55 \times 1.0 = 7.60 \text{ m}^2$
B3	$4.27 \times 1.675 = 7.15 \text{ m}^2$
C1	$3.68 \times 1.675 + 1.6 \times 1.11 + 3.37 \times 1.0 = 11.31 \text{ m}^2$
C2	$2.97 \times 1.8 + 1.0 \times 3.35 = 8.70 \text{ m}^2$
D1	$3.225 \times 1.675 + 1.0 \times 3.425 = 8.83 \text{ m}^2$
D2	$1.525 \times 2.55 + 3.12 \times 1.2 = 7.63 \text{ m}^2$
E1	$1.525 \times 2.55 + 3.12 \times 1.2 = 7.63 \text{ m}^2$
E2	$2.92 \times 1.525 + 3.12 \times 1.2 = 8.20 \text{ m}^2$
F1	$2.3 \times 1.525 + 1.225 \times 3.88 + 0.775 \times 4.635 = 11.85 \text{ m}^2$
F2	$2 \times 1.425 + 1.925 \times 1.5 = 5.74 \text{ m}^2$
A、B、C、D、E、F	$0.35 \times 1.5 + 1.35 \times 1.3 + 1.425 \times 14.675 + 1.35 \times 1.275 = 24.91 \text{ m}^2$
小計	$= 140.35 \text{ m}^2$

樓梯面積計算

A樓	$0.65 \times 1.05 + 3.4 \times 3.4 + 3.76 \times 2.68 = 22.32 \text{ m}^2$
B樓	$0.82 \times 1.25 + 5.1 \times 2.6 = 14.29 \text{ m}^2$
C樓	$2.25 \times 5.11 = 11.50 \text{ m}^2$
D樓	$5.6 \times 2.51 = 14.06 \text{ m}^2$
E樓	$2.4 \times 3.4 = 8.16 \text{ m}^2$
F樓	$2.29 \times 4.05 = 9.27 \text{ m}^2$
小計	$= 79.60 \text{ m}^2$

樓梯不足M面積計算

A樓	$0.65 \times 1.05 = 0.68 \text{ m}^2$
B樓	$0.82 \times 1.25 = 1.03 \text{ m}^2$
小計	$= 1.71 \text{ m}^2$

樓梯間面積計算

A樓	$5.075 \times 3.42 = 17.36 \text{ m}^2$
B樓	$5.045 \times 3.42 = 17.25 \text{ m}^2$
C樓	$1.11 \times 1.3 + 3.46 \times 2.43 + (4.57 + 3.13) \times 0.72/2 + 1.98 \times 1.11 + 4.57 \times 3.2 + 1.8 \times 1.85 = 32.77 \text{ m}^2$
D樓	$2.7 \times 4.57 + 0.59 \times 1.05 + 0.35 \times 0.7 + 1.275 \times 0.38 + 4.09 \times 2.89 = 25.51 \text{ m}^2$
E樓	$3.4 \times 2.59 + 2.15 \times 1.05 + 3.4 \times 3.17 = 21.84 \text{ m}^2$
F樓	$3.325 \times 4.27 + 2.29 \times 3.6 = 18.17 \text{ m}^2$
小計	$= 132.9 \text{ m}^2$

升降機面積計算

A樓	$2.35 \times 2.15 = 5.05 \text{ m}^2$
B樓	$2.4 \times 2.17 = 5.21 \text{ m}^2$
E樓	$2.35 \times 2.15 = 5.05 \text{ m}^2$
F樓	$2.1 \times 2 = 4.20 \text{ m}^2$
小計	$= 19.51 \text{ m}^2$

緊急升降機面積計算

A、B、C、D、E、F	$2.7 \times 2.5 = 6.75 \text{ m}^2$
C樓	$2.45 \times 2.55 = 6.25 \text{ m}^2$
D樓	$2.5 \times 2.45 = 6.13 \text{ m}^2$
小計	$= 19.13 \text{ m}^2$

排煙室面積計算

C樓	$4.5 \times 2.39 + 1.45 \times 0.4 = 11.34 \text{ m}^2$
D樓	$2.45 \times 4.085 + 1.425 \times 1.15 = 11.65 \text{ m}^2$
小計	$= 22.99 \text{ m}^2$

設備間面積計算

A、B、C、D、E、F	$0.55 \times 1.65 \times 2 = 1.82 \text{ m}^2$
D樓	$1.535 \times 2.45 = 3.76 \text{ m}^2$
小計	$= 5.58 \text{ m}^2$

二、面積計算檢討

樓地板面積	$1146.96 + 79.60 + 132.9 + 19.51 + 19.13 + 22.99 + 5.58 = 1426.67 \text{ m}^2$
陽台面積	140.35 m^2
緊急升降機面積	$140.35 \times 10\% = 14.04 \text{ m}^2$
排煙室面積	22.99 m^2
設備間面積	5.58 m^2
合計	$1426.67 + 14.04 + 22.99 + 5.58 = 1469.28 \text{ m}^2$
容許面積	$1426.67 \times 10\% = 142.67 \text{ m}^2$
檢討結果	$1469.28 > 142.67$...OK

三、當層戶數檢討 14 戶

四、緊急升降機設置檢討

本樓A、B、C樓21層，高度74.45M；D樓20層，高度76.65M；E樓19層，高度78.85M；F樓18層，高度81.05M。	
A、B樓 (11~21層) - 設置緊急升降機	$(86.31 + 79.95 + 68.11 + 66.77 + 79.85 + 94.57) \times 11 = 5231.16 > 500 \text{ m}^2$
C樓 (11~21層) - 設置緊急升降機	$(92.16 + 88.77) \times 11 = 1990.23 \text{ m}^2 > 500 \text{ m}^2$
D樓 (11~19層) - 設置緊急升降機	$(96.98 + 101.87) \times 3 + (96.98 + 91.70) \times 6 = 1728.63 \text{ m}^2 > 500 \text{ m}^2$
E樓 (11~13層) - 設置	$(79.21 + 79.95) \times 3 = 477.48 \text{ m}^2 < 500 \text{ m}^2$
F樓 (11~13層) - 設置	$(67.42 + 67.13) \times 3 = 403.65 \text{ m}^2 < 500 \text{ m}^2$

五、排煙室面積檢討

A、B樓	$3.76 \times 2.68 = 10.08 \text{ m}^2 > 10.00 \text{ m}^2$...OK
C樓	$4.5 \times 2.39 + 1.45 \times 0.4 = 11.34 \text{ m}^2 > 10.00 \text{ m}^2$...OK
D樓	$2.45 \times 4.085 + 1.15 \times 1.425 = 11.65 \text{ m}^2 > 10.00 \text{ m}^2$...OK

六、特別安全梯面積檢討

A、B樓	$(17.36 + 17.25 + 10.08) = 44.69 \text{ m}^2$
C樓	$(77.83 + 71.87 + 59.98 + 58.64 + 71.44 + 85.35) \times 3\% = 12.75 \text{ m}^2$
D樓	$(31.07 + 11.34) = 42.41 \text{ m}^2 > (82.94 + 78.75) \times 3\% = 4.85 \text{ m}^2$
E樓	$(25.51 + 11.65) = 37.16 \text{ m}^2 > (89.55 + 93.27) \times 3\% = 5.48 \text{ m}^2$

七、居室面積計算

居室面積	
A1	$1.25 \times 0.45 + 1.575 \times 2.17 + 1.65 \times 2.725 = 8.48 \text{ m}^2$
A2	$1.675 \times 2.175 + 1.675 \times 2.325 = 7.54 \text{ m}^2$
A3	$1.775 \times 2.1 + 2.75 \times 1.6 = 8.13 \text{ m}^2$
B1	$1.775 \times 2.1 + 2.75 \times 1.6 = 8.13 \text{ m}^2$
B2	$1.5 \times 2.65 + 1.675 \times 2.65 = 8.41 \text{ m}^2$
B3	$1.625 \times 2.4 + 1.6 \times 3.325 = 9.22 \text{ m}^2$
C1	$1.625 \times 2.4 + 1.6 \times 3.325 = 9.22 \text{ m}^2$
C2	$3.355 \times 1.6 + 2.695 \times 1.725 = 10.02 \text{ m}^2$
D1	$2.3 \times 1.675 + 1.625 \times 2.2 = 7.43 \text{ m}^2$
D2	$2.235 \times 3.85 = 8.60 \text{ m}^2$
E1	$2.235 \times 3.85 = 8.60 \text{ m}^2$
E2	$1.675 \times 0.35 + 1.81 \times 4.1 + 0.415 \times 2.36 = 8.99 \text{ m}^2$
F1	$1.885 \times 2.025 + 1.825 \times 2.2 = 7.83 \text{ m}^2$
F2	$1.675 \times 2.675 + 3.825 \times 1.325 = 9.55 \text{ m}^2$
居室面積	
A1	$86.31 - 8.48 = 77.83 \text{ m}^2$
A2	$77.6 - 7.54 = 70.06 \text{ m}^2$
A3	$68.86 - 8.13 = 60.73 \text{ m}^2$
B1	$66.77 - 8.13 = 58.64 \text{ m}^2$
B2	$79.85 - 8.41 = 71.44 \text{ m}^2$
B3	$94.57 - 9.22 = 85.35 \text{ m}^2$
C1	$92.16 - 9.22 = 82.94 \text{ m}^2$
C2	$88.77 - 10.02 = 78.75 \text{ m}^2$
D1	$96.98 - 7.43 = 89.55 \text{ m}^2$
D2	$101.87 - 8.60 = 93.27 \text{ m}^2$
E1	$79.21 - 8.60 = 70.61 \text{ m}^2$
E2	$79.95 - 8.99 = 70.96 \text{ m}^2$
F1	$67.42 - 7.83 = 59.59 \text{ m}^2$
F2	$67.13 - 9.55 = 57.58 \text{ m}^2$

圖11-18 五層面積計算圖(S=1/300)

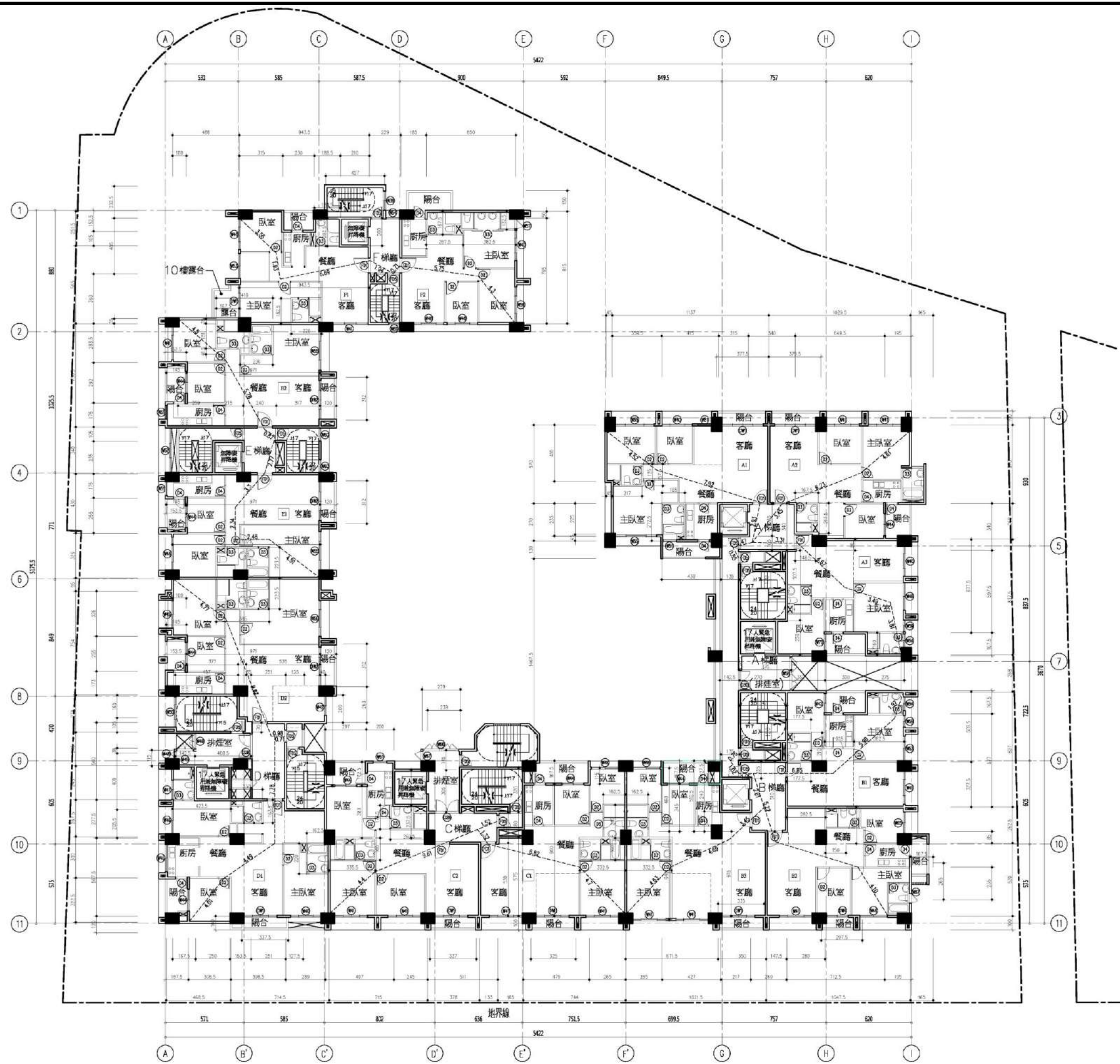
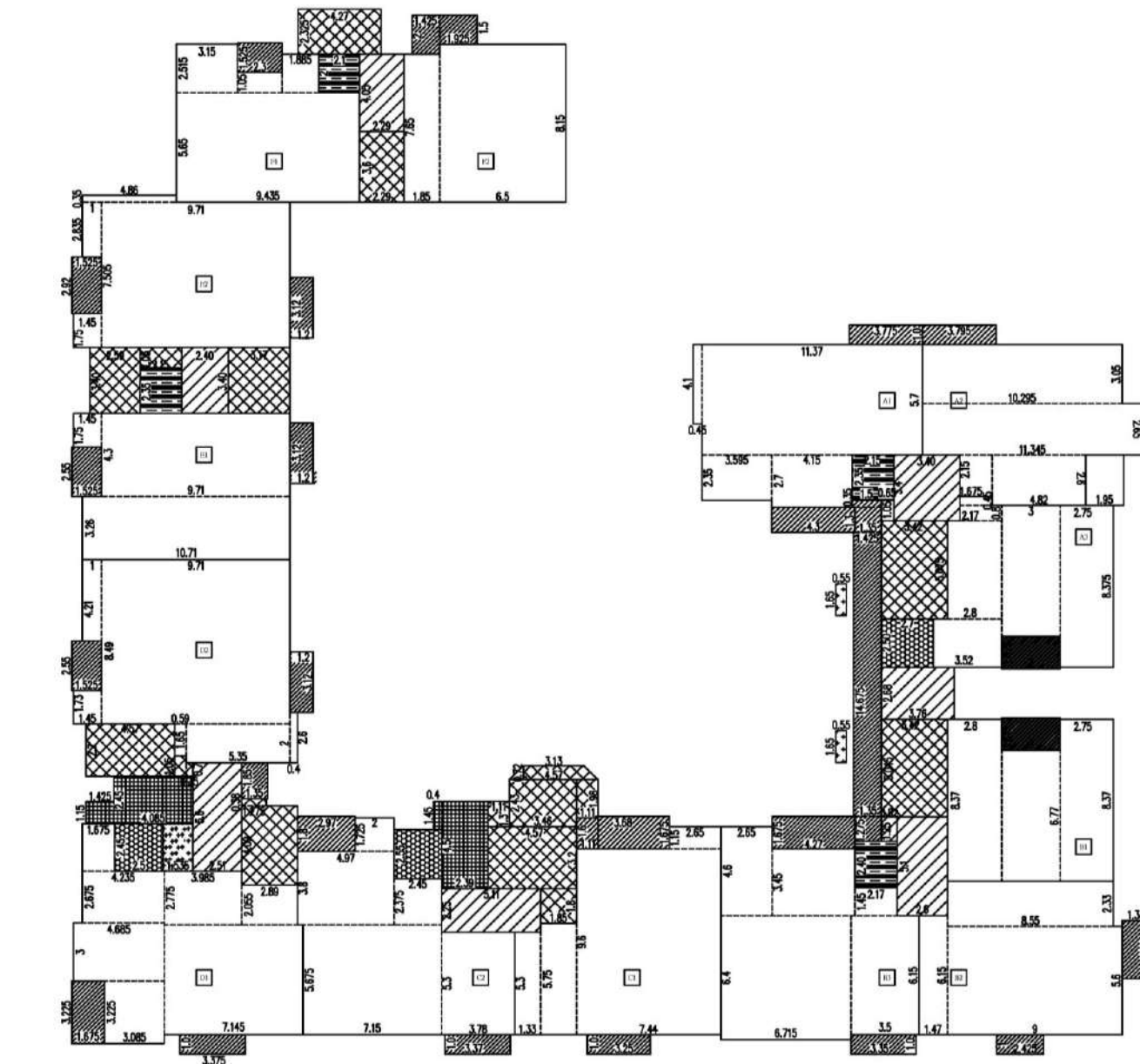


圖11-19 六、十層平面圖(S=1/300)



八、步行距離檢討

步行距離

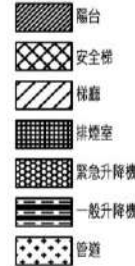
A1	L=4.52+7.92+2.93+1.47+0.85=17.69M < 40M
A2	L=4.61+6.23+3.45+1.47+0.85=16.61M < 40M
A3	L=3.81+3.49+4.67+3.31+1.47+0.85=17.6M < 40M
B1	L=1.97+5.98+6.85+1.02+0.75=16.57M < 40M
B2	L=4.1+6.0+5.22+1.05+1.02+0.75=18.14M < 40M
B3	L=4.63+4.69+3.45+2.61+1.05+1.02+0.75=18.2M < 40M
C1	L=4.7+6.82+1.32+1.52=14.36M < 40M
C2	L=9.61+4.4=14.01M < 40M
D1	L=4.01+4.49+7.78+0.71=16.99M < 40M
D2	L=4.77+9.12+0.98=14.87M < 40M
E1	L=4.51+2.48+2.34+3.3+2.77=15.4M < 50M
E2	L=4.5+5.78+0.87=11.15M < 50M
F1	L=3.56+1.93+6.69+1.94=14.12M < 50M
F2	L=4.3+5.75+0.71=10.76M < 50M

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=4.1+6.0+5.22+1.05+1.02+0.75=18.14M < 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
D1	L=4.01+4.49+7.78+0.71=16.99M < 20M
D2	L=4.58+8.07+0.98=13.63M < 20M
E1	L=4.51+2.48+2.34+3.3=12.63M < 50M
E2	L=4.5+5.78=10.28M < 50M
F1	L=3.56+1.93+6.69+1.94=12.18M < 50M
F2	L=4.3+5.75+0.71=10.05M < 50M

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㎡ > 70.06/8=8.76 ...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+1.6x2.5+2.0x2.5+0.7x1.75+1.6x1.4	=18.47㎡ > 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
D1	2.2x2.5+2.4x2.5+1.6x1.5+2x1.5+2x2.5+1.4x2.5	=25.40㎡ > 89.55/8=11.19 ...OK
D2	1.4x1.5+2.8x2.5+2.6x2.5+2x1.5+1.6x1.5	=21.00㎡ > 93.27/8=11.66 ...OK
E1	2.8x2.5+2.8x2.5+2x2.5+1.6x1.5+1x1.75	=23.15㎡ > 70.61/8=8.83 ...OK
E2	2.8x2.5+2.8x2.5+2.4x2.5+1.6x1.5+1x1.75	=24.15㎡ > 70.96/8=8.87 ...OK
F1	2.4x2.5+2.4x2.5+1.8x2.5+2.2x2.5	=22.00㎡ > 59.59/8=7.45 ...OK
F2	2.2x2.5+2.2x2.5+2.6x2.5+2.2x2.5+0.9x2.5	=25.25㎡ > 57.58/8=7.20 ...OK



一、六十層 各戶 樓地板面積計算

室內面積		
A1	4.1x0.45+3.595x2.35+5.7x1.37+4.15x2.7	= 86.31㎡
A2	3.05x10.295+11.345x2.65+2.15x1.675+2.6x4.82	= 77.6㎡
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+7.15x5.675+3.78x5.3	= 88.77㎡
D1	1.675x2.45+2.675x4.235+3x4.685+3.985x2.775+3.225x3.085+2.89x2.055+7.145x5.675	= 96.98㎡
D2	4.21x1+1.73x1.45+8.49x9.71+0.59x1.65+5.35x2+2.6x0.4	= 101.87㎡
E1	1.75x1.45+4.3x9.71+10.71x3.26	= 79.21㎡
E2	2.835x1+4.86x0.35+7.505x9.71+1.75x1.45	= 79.95㎡
F1	2.515x3.15+2.3x1.05+1.885x2+9.435x5.65	= 67.42㎡
F2	7.65x1.85+6.5x8.15	= 67.13㎡
小計		= 1146.96㎡

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+3.35x1.0	= 10.50㎡
C1	3.68x1.675+1.6x1.11+3.25x1.0	= 11.19㎡
C2	2.97x1.8+1.0x3.37	= 8.72㎡
D1	3.225x1.675+1.0x3.375	= 8.78㎡
D2	1.525x2.55+3.12x1.2	= 7.63㎡
E1	1.525x2.55+3.12x1.2	= 7.63㎡
E2	2.92x1.525+3.12x1.2	= 8.20㎡
F1	2.3x1.525	= 3.51㎡
F2	2x1.425+1.925x1.5	= 5.74㎡
A,B樓	0.35x1.5+1.35x1.3+1.425x14.675+1.35x1.275	= 24.91㎡
D樓	1.35x1.85	= 2.50㎡
小計		= 134.09㎡

梯間面積計算		
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㎡
D樓	5.6x2.51	= 14.06㎡
E樓	2.4x3.4	= 8.16㎡
F樓	2.29x4.05	= 9.27㎡
小計		= 79.60㎡

梯間不足M面積計算		
A樓	0.65x1.05	= 0.68㎡
B樓	0.82x1.25	= 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+1.11x1.98+4.57x3.2+1.8x1.85	= 32.77㎡
D樓	2.7x4.57+0.59x1.05+0.35x0.7+1.275x0.38+4.09x2.89	= 25.51㎡
E樓	3.4x2.59+2.15x1.05+3.4x3.17	= 21.84㎡
F樓	2.325x4.27+2.29x3.6	= 18.17㎡
小計		= 132.9㎡

升降機面積計算		
A樓	2.35x2.15	= 5.05㎡
B樓	2.4x2.17	= 5.21㎡
E樓	2.35x2.15	= 5.05㎡
F樓	2.1x2	= 4.20㎡
小計		= 19.51㎡

緊急升降機面積計算		
A,B樓	2.7x2.5	= 6.75㎡
C樓	2.45x2.55	= 6.25㎡
D樓	2.5x2.45	= 6.13㎡
小計		= 19.13㎡

排煙室面積計算		
C樓	4.5x2.39+1.45x0.4	= 11.34㎡
D樓	2.45x4.085+1.425x1.15	= 11.65㎡
小計		= 22.99㎡

設備間面積計算		
A,B樓	0.55x1.65x2	= 1.82㎡
D樓	1.535x2.45	= 3.76㎡
小計		= 5.58㎡

二、面積計算檢討

樓地板面積檢討		
	1146.96+79.60+132.9+19.51+19.13+22.99+5.58	= 1426.67㎡
陽台免計容積面積檢討	134.09㎡	< 1426.67x10%=142.67㎡ ...OK
梯間免計容積面積檢討	79.60-1.71=77.89㎡	< 1426.67x10%=142.67㎡ ...OK
陽台+梯間免計容積面積檢討	134.09+77.89=211.98㎡	< 1426.67x15%=214.00㎡ ...OK
設備間面積檢討	132.9+19.13+22.99+5.58=180.6㎡	
當層容積樓地板面積檢討	1426.67-77.89=1348.78㎡	
(備註)	(備註)	

三、當層戶數檢討 14戶

四、緊急升降機設置檢討

本樓A,B,C樓為21層,高度74.45M;D樓為19層,高度67.65M;E樓為11層,高度37.15M;F樓為11層,高度37.15M。	
設置三座緊急升降機, 每座服務十七人, 高度每層105公分	
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=403.65 < 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
D樓	2.45x4.085+1.15x1.425=11.65㎡ > 10.00㎡...OK

六、特別安全梯面積檢討

A,B樓	(17.36+17.25+10.08)=44.69㎡
>	(77.83+71.87+59.98+58.64+71.44+85.35)x3%=12.75㎡
C樓	(31.07+11.34)=42.41㎡ > (82.94+78.75)x3%=4.85㎡
D樓	(25.51+11.65)=37.16㎡ > (89.55+93.27)x3%=5.48㎡

七、居室面積計算

廚房面積		
A1	1.25x0.45+1.575x2.17+1.65x2.725	= 8.48㎡
A2	1.675x2.175+1.675x2.325	= 7.54㎡
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㎡
D1	2.3x1.675+1.625x2.2	= 7.43㎡
D2	2.235x3.85	= 8.60㎡
E1	2.235x3.85	= 8.60㎡
E2	1.675x0.35+1.81x4.1+0.415x2.36	= 8.99㎡
F1	1.885x2.025+1.825x2.2	= 7.83㎡
F2	1.675x2.675+3.825x1.325	= 9.55㎡
居室面積		
A1	86.31-8.48	= 77.83㎡
A2	77.6-7.54	= 70.06㎡
A3	68.86-8.13	= 60.73㎡
B1	66.77-8.13	= 58.64㎡
B2	79.85-8.41	= 71.44㎡
B3	94.57-9.22	= 85.35㎡
C1	92.16-9.22	= 82.94㎡
C2	88.77-10.02	= 78.75㎡
D1	96.98-7.43	= 89.55㎡
D2	101.87-8.60	= 93.27㎡
E1	79.21-8.60	= 70.61㎡
E2	79.95-8.99	= 70.96㎡
F1	67.42-7.83	= 59.59㎡
F2	67.13-9.55	= 57.58㎡

圖11-20 六、十層面積計算圖(S=1/300)

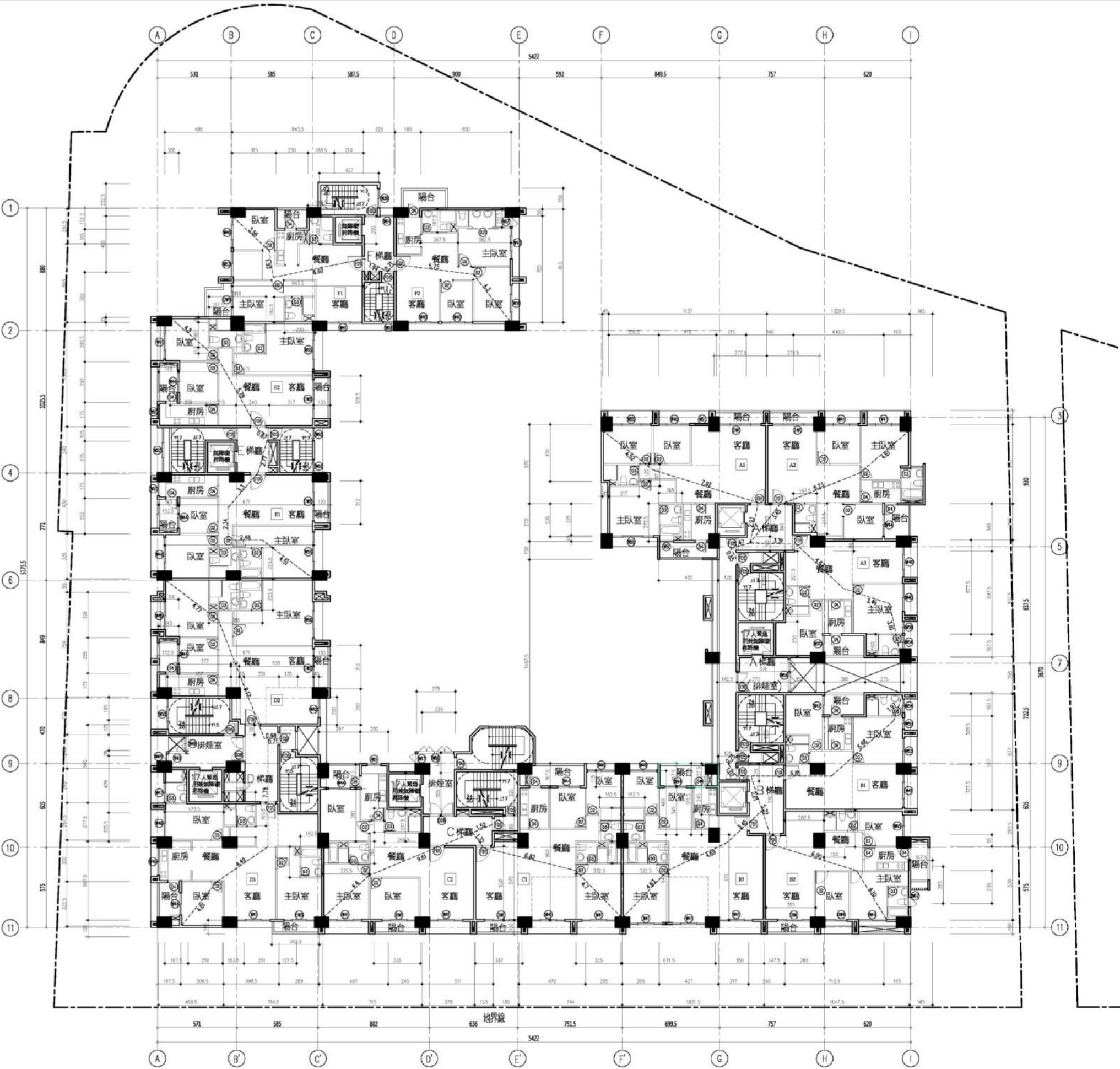


圖11-21 七層平面圖(S=1/300)



九、採光面積檢討

 陽台
 安全梯
 梯廳
 排煙室
 緊急升降梯
 一般升降梯
 管道

一. 七層 各戶 樓地板面積計算

閉合面積		
A1	$1.0 \times 3.775 + 4.3 \times 1.3$	= 9.37 ㎡
A2	$3.795 \times 1.0 + 1.95 \times 2.6$	= 8.87 ㎡
A3	3×1.675	= 5.03 ㎡
B1	3×1.675	= 5.03 ㎡
B2	$1.35 \times 3.0 + 3.55 \times 1.0$	= 7.60 ㎡
B3	4.27×1.675	= 7.15 ㎡
C1	$3.68 \times 1.675 + 1.11 \times 1.6 + 3.37 \times 1.0$	= 11.31 ㎡
C2	$2.97 \times 1.8 + 1.0 \times 3.35$	= 8.70 ㎡
D1	$3.225 \times 1.675 + 1.0 \times 3.425$	= 8.83 ㎡
D2	$1.525 \times 2.55 + 3.12 \times 1.2$	= 7.63 ㎡
E1	$1.525 \times 2.55 + 3.12 \times 1.2$	= 7.63 ㎡
E2	$2.92 \times 1.525 + 3.12 \times 1.2$	= 8.20 ㎡
F1	$2.3 \times 1.525 + 2.0 \times 2.175 + 0.775 \times 0.375$	= 8.15 ㎡
F2	$2 \times 1.425 + 1.925 \times 1.5$	= 5.74 ㎡
A、B、D、E、F	$0.35 \times 1.5 + 1.35 \times 1.3 + 1.425 \times 14.675 + 1.35 \times 1.275$	= 24.91 ㎡
D樓	1.35×1.85	= 2.50 ㎡
小計		= 136.65 ㎡

按不足2M而计算		
A排 0.65x1.05	=	0.68 m ²
B排 0.82x1.25	=	1.03 m ²
小计	=	1.71 m ²

楼梯面积计算		
A楼	5.075×3.42	= 17.36 m^2
B楼	5.045×3.42	= 17.25 m^2
C楼	$1.11 \times 1.3 + 2.43 \times 3.46 + (4.57 + 3.13) \times 0.72 / 2$ $+ 1.11 \times 1.98 + 4.57 \times 3.2 + 1.8 \times 1.85$	= 32.77 m^2
D楼	$2.7 \times 4.57 + 0.59 \times 1.05 + 0.35 \times 0.7 + 1.275 \times 0.38$ $+ 4.09 \times 2.89$	= 25.51 m^2
E楼	$3.4 \times 2.59 + 2.15 \times 1.05 + 3.4 \times 3.17$	= 21.84 m^2
F楼	$3.25 \times 4.27 + 2.29 \times 3.6$	= 18.17 m^2
小计		= 132.9 m^2

升降板面计算		
A楼 2.35x2.15	=	5.05 m ²
B楼 2.4x2.17	=	5.21 m ²
E楼 2.35x2.15	=	5.05 m ²
F楼 2.1x2	=	4.20 m ²
小计	=	19.51 m ²

紧急升降梯面计算	
A、B梯 2.7x2.5	= 6.75 m ²
C梯 2.45x2.55	= 6.25 m ²
D梯 2.5x2.45	= 6.13 m ²
小计	= 19.13 m ²

排屋室內機計算		
C機	$4.5 \times 2.39 + 1.45 \times 0.4$	= 11.34 m ²
D機	$2.45 \times 4.085 + 1.425 \times 1.15$	= 11.65 m ²
小計		= 22.99 m ²

按四面计算		
A、B 墙 $0.55 \times 1.65 \times 2$	=	1.82 m ²
D 墙 1.535×2.45	=	3.76 m ²
小计	=	5.58 m ²

二、面積計算檢討

三、當層戶數檢討 14戸

四、緊急升降機設置檢討

本橋A、B、C墩21層，高74.45M；D墩9層，高67.65M，連梁
 設置三連梁升降機，或設置力達十人，重量約1噸05公尺
 A、B墩 (11~21層) — 設置雙金升降機
 (86.31+79.95+68.11+66.77+79.85+94.57)x11=5231.16 > 500M²
 C墩 (11~21層) — 設置雙金升降機 (92.16+88.77)x11=1990.23M² > 500M²
 D墩 (11~19層) — 設置雙金升降機
 (96.98+101.87)x3+(96.98+91.70)x6=1728.63M² > 500M²
 E墩 (11~13層) — 免設置 (79.21+67.93)x3=477.48M² < 500M²
 F墩 (11~13層) — 免設置 (67.42+67.13)x3=403.65M² < 500M²

五、排煙室面積檢討

A、B棟 $3.76 \times 2.68 = 10.08 \text{ m}^2 > 10.00 \text{ m}^2 \dots \text{OK}$
 C棟 $4.5 \times 2.39 + 1.45 \times 0.4 = 11.34 \text{ m}^2 > 10.00 \text{ m}^2 \dots \text{OK}$
 D棟 $2.45 \times 4.085 + 1.15 \times 1.425 = 11.65 \text{ m}^2 > 10.00 \text{ m}^2 \dots \text{OK}$

六 特別安全梯面積検討

A、B棟 $(17.36+17.25+10.08)=44.69\text{m}$
 $> (77.83+71.87+59.98+58.64+71.44+85.35)\times 3\%=12.75\text{m}$
 C棟 $(31.07+11.34)=42.41\text{m}$ $> (82.94+78.75)\times 3\%=4.85\text{m}$
 D棟 $(25.51+11.65)=37.16\text{m}$ $> (89.55+93.27)\times 3\%=5.48\text{m}$

七、居室面積計算

A1	$1.25 \times 0.45 + 1.575 \times 2.17 + 1.65 \times 2.725$	=	8.48 #
A2	$1.675 \times 2.175 + 1.675 \times 2.325$	=	7.54 #
A3	$1.775 \times 2.1 + 2.75 \times 1.6$	=	8.13 #
B1	$1.775 \times 2.1 + 2.75 \times 1.6$	=	8.13 #
B2	$1.5 \times 2.65 + 1.675 \times 2.65$	=	8.41 #
B3	$1.625 \times 2.4 + 1.6 \times 3.325$	=	9.22 #
C1	$1.625 \times 2.4 + 1.6 \times 3.325$	=	9.22 #
C2	$3.355 \times 1.6 + 2.695 \times 1.725$	=	10.02 #
D1	$2.3 \times 1.675 + 1.625 \times 2.2$	=	7.43 #
D2	2.235×3.85	=	8.60 #
E1	2.235×3.85	=	8.60 #
E2	$1.675 \times 0.35 + 1.81 \times 4.1 + 0.415 \times 2.36$	=	8.99 #
F1	$1.885 \times 2.025 + 1.825 \times 2.2$	=	7.83 #
F2	$1.675 \times 2.675 + 3.825 \times 1.325$	=	9.55 #

居室編號	面積	售價
A1	86.31-8.48	= 77.83 萬
A2	77.6-7.54	= 70.06 萬
A3	68.86-8.13	= 60.73 萬
B1	66.77-8.13	= 58.64 萬
B2	79.85-8.41	= 71.44 萬
B3	94.57-9.22	= 85.35 萬
C1	92.16-9.22	= 82.94 萬
C2	88.77-10.02	= 78.75 萬
D1	96.98-7.43	= 89.55 萬
D2	101.87-8.60	= 93.27 萬
E1	79.21-8.60	= 70.61 萬
E2	79.95-8.99	= 70.96 萬
F1	67.42-7.83	= 59.59 萬
F2	67.13-9.55	= 57.58 萬

圖11-22七層面積計算圖($S=1/300$)